Robinson+Cole

KENNETH C. BALDWIN

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Also admitted in Massachusetts and New York

July 25, 2022

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

Re: **Notice of Exempt Modification – Facility Modification**
785 Park Avenue, Bloomfield, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an wireless telecommunications facility at the Bloomfield Police Station at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to a monopole telecommunications tower and associated equipment on the ground near the base of the tower. The existing tower was approved by the Town of Bloomfield ("Town") in October of 2002. Cellco's use of the tower was approved by the Council in November of 2002 (EM-VER-011-021017). Copies of the Town's approval and Council's EM-VER-011-021017 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing three (3) existing antennas and installing three (3) new Samsung MT6407-77A antennas on the existing antenna platform. Cellco also intends to replace six (6) remote radio heads ("RRHs") with six (6) new RRHs in the same general locations on the platform. A set of project plans showing Cellco's proposed facility modifications and new antennas and RRHs 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 Bloomfield's Chief Elected Official and Land Use Officer. The Town is the owner of the tower and Property.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. The replacement antennas will be installed on Cellco's existing antenna 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 platform and mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials 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:
Stanley Hawthorne, Bloomfield Town Manager
Jennifer Valentino-Rodriguez, Director of Planning and Zoning
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

TOWN OF BLOOMFIELD

800 Bloomfield Avenue - P.O. Box 337
Bloomfield, CT 06002
(860) 769-3516

BUILDING PERMIT APPLICATION

Job Location: 785 Park Ave, Bloomfield, CT	**Lot #:**	**Zone:**
Purpose of Permit: To construct a wireless communications facility consisting of a 140' monopole structure, it is designed to accomadate town police + rescue communications and four wireless carriers.		

Building Permit No: 21872	Use Group: U	Code:
Type of Construction:		

Property Owner - Name/Address	Contractor - Name/Address	Arch/Eng/Agent - Name/Address
Town of Bloomfield 800 Bloomfield Ave Bloomfield, CT, 06002 Phone:	Construction Services of Branford, Inc., 63-3 North Branford Rd, Branford, CT, 06405 Phone: (203) 488-0712	Natcomm, Inc 63-2 North Branford Rd, Branford, CT, 06405 Phone: (203) 488-0580

USE:

☐ Residential Use	☐ Public Assembly	☐ Industrial
☐ Single Family	☐ Business	☐ Storage
☐ Multi Family	☐ Educational	☐ Utility

FEE INCLUDES:	ESTIMATED COST	FEE
☑ General Contractor	$ 110,000	$
☐ Plumbing Permit #:	$	$
☐ Heating Permit #:	$	$
☐ A/C Permit #:	$	$
☐ Electric Permit #:	$	$
☐ Sprinkler Permit #:	$	$
☐ #:	$	$
	TOTAL $ 110,000	TOTAL $ 1,540.00

CERTIFICATION: I hereby certify that: ☐ I am the owner of record of the named property or ☑ that the proposed work is authorized by the owner of record and/or I have been authorized to make this application as an agent, and we agree to conform to all applicable laws, regulations and ordinances. All information contained within is true and accurate to the best of my knowledge and belief.

Signed: _____ ☐ Owner ☐ Contractor ☑ Agent	Date: 10/25/02	Contractor's License #: mco.900576

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@po.state.ct.us
Web Site: www.state.ct.us/csc/index.htm

November 8, 2002

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

RE: **EM-VER-011-021017** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 785 Park Avenue, Bloomfield, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on November 7, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated October 17, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. 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 will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such 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.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Faith McMahon, Mayor, Town of Bloomfield
Thomas B. Hooper, Director of Planning, Town of Bloomfield
Christopher B. Fisher, Esq., Cuddy & Feder & Worby LLP

I:\siting\em\bam-ver\bloomfield\dc1 10702.doc

ATTACHMENT 2

verizon

WIRELESS COMMUNICATIONS FACILITY

BLOOMFIELD 3 CT
785 PARK AVENUE
BLOOMFIELD, CT 06002

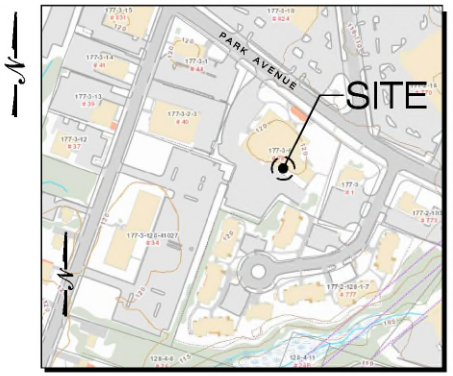
DRAWING INDEX

SITE DIRECTIONS

START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492

END: 785 PARK AVENUE
BLOOMFIELD, CT 06002

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 LEFT ONTO CT-68 E	1.6 MI
7.	CONTINUE STRAIGHT TO STAY ON CT-68 E	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.	TAKE EXIT 35 FOR CT-178/PARK AVE. TOWARD BLOOMFIELD	0.2 MI
11.	TURN LEFT ONTO CT-178/PARK AVE.	2.4 MI
12.	SLIGHT LEFT TO STAY ON CT-178 W	0.5 MI
13.	TAKE RIGHT TO STAY ON CT-178 W (DESTINATION WILL BE ON LEFT)	1.5 MI



LOCATION MAP
SCALE: 1" = 400'-0"

SITE INFORMATION

VZ SITE NAME: BLOOMFIELD 3 CT
VZ PROJ FUZE I.D.: 16272375
VZ LOCATION CODE: 468782
VZ PROJECT CODE: 20212234137
LOCATION: 785 PARK AVENUE
BLOOMFIELD, CT 06002

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

MAP-BLOCK-LOT: 177-3-6

ZONING DISTRICT: BCD (BUSINESS)

LATITUDE: 41° 49' 42.63" N (41.8285083° N)

LONGITUDE: 72° 44' 01.09" W (72.7336361° W)

SITE COORDINATES AND GROUND ELEVATION OBTAINED FROM GOOGLE EARTH.

GROUND ELEVATION: 118± AMSL

PROPERTY OWNER: TOWN OF BLOOMFIELD
C/O POLICE STATION
800 BLOOMFIELD AVE.
BLOOMFIELD, CT 06002

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 CORPORATION, P.C.
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385
(860) 663-1697

VERIZON SMART TOOL PROJECT #: 10044566; 10115591

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	08/06/21	FOR REVIEW: JRM
1	01/25/22	FOR FILING: JRM
2	01/26/22	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 BLOOMFIELD
C/O POLICE STATION
ADDRESS: 800 BLOOMFIELD AVE.
BLOOMFIELD, CT 06002

BLOOMFIELD 3 CT

SITE ADDRESS: 785 PARK AVENUE
BLOOMFIELD, CT 06002

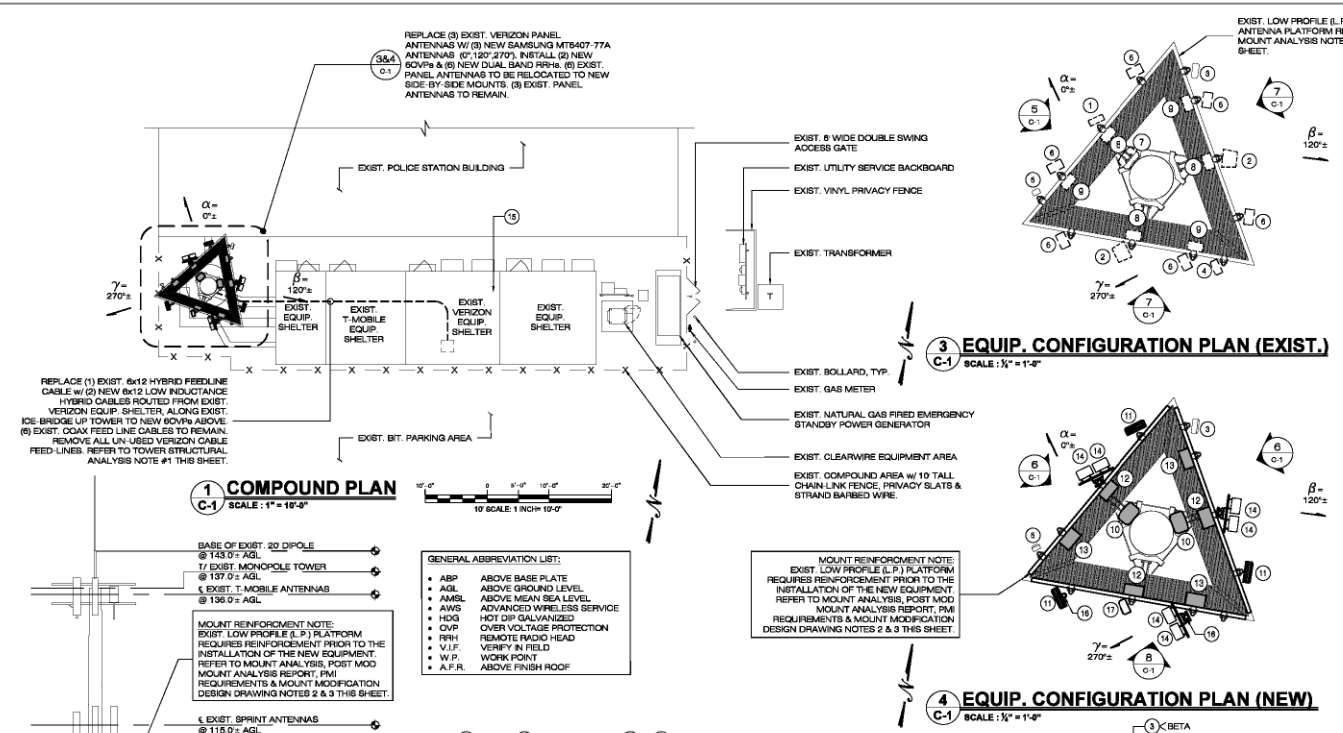
APT FILING NUMBER: CT141_12570

DRAWN BY: DRA
DATE: 08/06/21 CHECKED BY: JRM

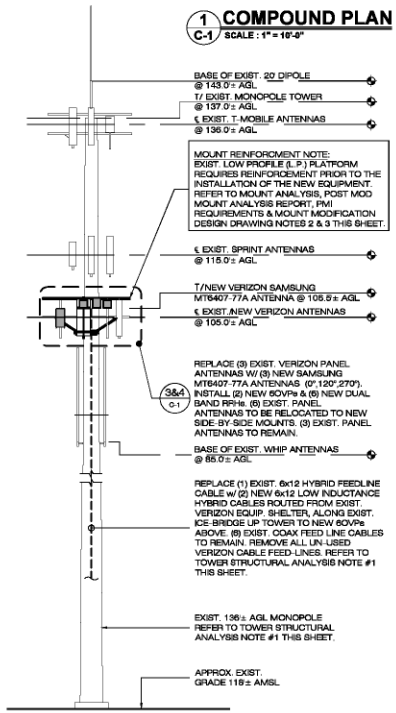
VZ PROJECT CODE: 20212234137
VZ LOCATION CODE: 468782
VZ FUZE ID: 16272375

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1



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



2 TOWER ELEVATION
C-1 SCALE : 1" = 10'-0"

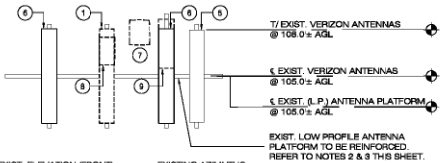
GENERAL ABBREVIATION LIST:

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

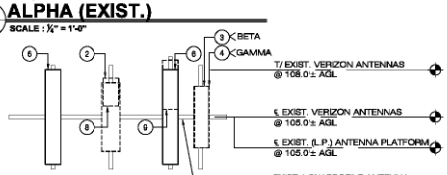
MOUNT REINFORCMENT NOTE: EXIST. LOW PROFILE (L.P.) PLATFORM REQUIRES REINFORCEMENT PRIOR TO THE INSTALLATION OF THE NEW EQUIPMENT. REFER TO MOUNT ANALYSIS, POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWING NOTES 2 & 3 THIS SHEET.

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

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

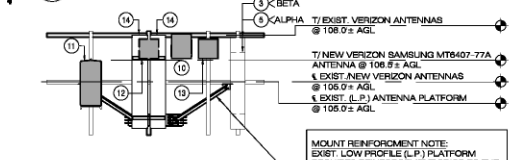


5 EQUIP. MOUNTING CONFIG. ALPHA (EXIST.)
C-1 SCALE : ½" = 1'-0"



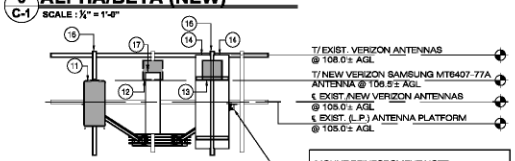
7 EQUIP. MOUNTING CONFIG. BETA/GAMMA (EXIST.)
C-1 SCALE : ½" = 1'-0"

MOUNT REINFORCMENT NOTE: EXIST. LOW PROFILE (L.P.) PLATFORM REQUIRES REINFORCEMENT PRIOR TO THE INSTALLATION OF THE NEW EQUIPMENT. REFER TO MOUNT ANALYSIS, POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWING NOTES 2 & 3 THIS SHEET.



6 EQUIP. MOUNTING CONFIG. ALPHA/BETA (NEW)
C-1 SCALE : ½" = 1'-0"

MOUNT REINFORCMENT NOTE: EXIST. LOW PROFILE (L.P.) PLATFORM REQUIRES REINFORCEMENT PRIOR TO THE INSTALLATION OF THE NEW EQUIPMENT. REFER TO MOUNT ANALYSIS, POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWING NOTES 2 & 3 THIS SHEET.



8 EQUIP. MOUNTING CONFIG. GAMMA (NEW)
C-1 SCALE : ½" = 1'-0"

NOTES:

1. REFER TO TOWER STRUCTURAL ANALYSIS REPORT ALL-POINTS TECHNOLOGY CORPORATION, P.C. MARKED REV1 DATED 01/26/22 AVAILABLE UNDER SEPARATE COVER.
2. REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A., PROJECT #21777224A MARKED REV0, DATED 11/03/21 AVAILABLE UNDER SEPARATE COVER.
3. REFER TO POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWINGS PREPARED BY MASER CONSULTING, P.A., PROJECT #21777224A DATED 11/16/21 AVAILABLE UNDER SEPARATE COVER.
4. BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECHNOLOGY CORPORATION, P.C. ON 06/23/21.
5. PROJECT SCOPE INCLUDES THE FOLLOWING:
   - REPLACEMENT OF (3) EXIST. PANEL ANTENNAS w/ (3) NEW SAMSUNG MT6407-77A ANTENNAS.
   - RELOCATION OF (6) EXIST. ANTENNAS TO NEW SIDE-BY-SIDE MOUNTS (COMMSCOPE BSAMNT-SBS-1-2)
   - REPLACEMENT OF (6) EXIST. RRHs w/ (6) NEW DUAL BAND RRHs.
   - REPLACEMENT OF (1) EXIST. 6OVP w/ (2) NEW 6OVPs (TOWER)
   - REPLACEMENT OF (1) 6OVP w/ (2) NEW RACK MOUNTED 6OVPs (VERIZON SHELTER)
   - REPLACEMENT OF (1) EXIST. 6x12 HYBRID FEED-LINE CABLE w/ (2) NEW 6x12 LOW-INDUCTANCE HYBRID FEED-LINE CABLES.
   - REMOVAL OF ALL UNUSED VERIZON COAX CABLE FEED-LINES.
6. ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE)
7. CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
8. MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
9. SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
10. BOND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR w/ # 2 AWG, BCW, (WHERE APPLICABLE).
11. 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.
12. ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS (UNLESS NOTED OTHERWISE).
13. ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
14. REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
13. PAINT ALL LSUB6 ANTENNAS TO MATCH EXISTING STRUCTURE (WHERE APPLICABLE). COORDINATE W/ LSUB6 MANUFACTURER INSTALLATION MANUAL REQUIREMENTS, VERIZON CONSTRUCTION MANAGER & OWNER.
14. PAINT ALL NEW NON SAMSUNG MT6407-77A ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.

SCOPE OF WORK (ALL) SECTORS

1. EXIST. ANTENNA (TO BE REPLACED) MODEL: ANTEL BXA-70063-6CF
2. EXIST. ANTENNA (TO BE REPLACED) MODEL: SWEDCOM SLCP 2x6014
3. EXIST. ANTENNA (TO REMAIN) MODEL: AMPHENOL BXA-80063-4BF
4. EXIST. ANTENNA (TO BE RELOCATED) MODEL: AMPHENOL BXA-80080-4CF
5. EXIST. ANTENNA (TO REMAIN) MODEL: AMPHENOL BXA-80080-6CF
6. EXIST. ANTENNA (TO BE RELOCATED ON NEW SIDE-BY-SIDE MOUNT P/N BASMNT-SBS-1-2) MODEL: ANDREW SBNHH-1D65B
7. EXIST. 6 OVP (TO BE REPLACED) MODEL: RAYCAP RRFDC-3315-PF-48 (V.I.F.)
8. EXIST. RRH (TO BE REPLACED) MODEL: NOKIA B13 RRH 4x30 700
9. EXIST. RRH (TO BE REPLACED) MODEL: NOKIA B4 RRH 2x80 -4R
10. NEW 6 OVP MODEL: RAYCAP RHSDC-3315-PF-48 (V.I.F.)
11. NEW ANTENNA MODEL: SAMSUNG MT6407-77A
12. NEW DUAL BAND RRH MODEL: SAMSUNG B13/B5 RRH-BR04C (RFV01U-D2A)
13. NEW DUAL BAND RRH MODEL: SAMSUNG B66/B2A RRH-BR049 (RFV01U-D1A)
14. EXIST. RELOCATED ANTENNA MODEL: ANDREW SBNHH-1D65B
15. EXIST. 6OVP (TO BE REPLACED w/ (2) NEW RACK MOUNTED 6OVPs)
16. NEW P3.5 STD (O.D. = 2.875") x7 LG. ANTENNA PIPE MAST. (GALV). CONNECT TO MAIN PIPE SUPPORT w/ SITEPRO1 VZWSMART-MSK3D DOUBLE PIPE TO PIPE CLAMP SET. (GAMMA ONLY)
17. EXIST. ANTENNA (RELOCATED) MODEL: AMPHENOL BXA-80080-4CF

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	08/06/21	FOR REVIEW: JRM
1	01/25/22	FOR FILING: JRM
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3		
4		
5		
6		

STATE OF CONNECTICUT · MICHAEL TRODDEN · 33313 · LICENSED PROFESSIONAL ENGINEER

DESIGN PROFESSIONALS OF RECORD

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

OWNER: TOWN OF BLOOMFIELD C/O POLICE STATION
ADDRESS: 800 BLOOMFIELD AVE. BLOOMFIELD, CT 06002

BLOOMFIELD 3 CT

SITE ADDRESS: 785 PARK AVENUE BLOOMFIELD, CT 06002

APT FILING NUMBER: CT141_12570

DRAWN BY: DRA
DATE: 08/06/21
CHECKED BY: JRM

VZ PROJECT CODE: 20212234137
VZ LOCATION CODE: 466782
VZ FUZE ID: 16272375

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

SHEET NUMBER:
C-1

EQUIPMENT DATA

EQUIPMENT SPECIFICATIONS

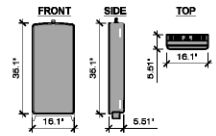
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)	WEIGHT (LBS)
ALPHA	850: AMPHENOL BXA-80080-6CF	1	0°	ETR	72.6	11.2	4.6	22.0 (2)
	700/850/1900/2100: COMMSCOPE SBNHH-1D65B	1	0°	ETR	72.9	11.9	7.1	40.8 (2)
	700/850/1900/2100: COMMSCOPE SBNHH-1D65B	1	0°	ETR	72.9	11.9	7.1	40.8 (2)
	SAMSUNG MT6407-77A	1	0°	NEW	35.1 (3)	16.1 (3)	5.51 (3)	67.1 (2)(3)
BETA	850: AMPHENOL BXA-80063-4BF	1	120°	ETR	44.6	11.2	5.3	12.6 (2)
	700/850/1900/2100: COMMSCOPE SBNHH-1D65B	1	120°	ETR	71.3	15.4	10.7	60.0 (2)
	700/850/1900/2100: COMMSCOPE SBNHH-1D65B	1	120°	ETR	71.3	15.4	10.7	60.0 (2)
	SAMSUNG MT6407-77A	1	120°	NEW	35.1 (3)	16.1 (3)	5.51 (3)	67.1 (2)(3)
GAMMA	700/850/1900/2100: COMMSCOPE SBNHH-1D65B		270°	ETR	71.3	15.4	10.7	60.0 (2)
	700/850/1900/2100: COMMSCOPE SBNHH-1D65B	1	270°	ETR	71.3	15.4	10.7	60.0 (2)
	850: AMPHENOL BXA-80080-4CF	1	270°	ETR	47.4	8.0	5.9	12.0 (2)
	SAMSUNG MT6407-77A	1	270°	NEW	35.1 (3)	16.1 (3)	5.51 (3)	67.1 (2)(3)
	APPURTENANCE MAKE/MODEL							
	SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	3	-	NEW	14.9	14.9	10.04	97.5
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	NEW	14.9	14.9	8.14	82.0
	RAYCAP RHSDC-3315-PF-48	2	-	NEW	28.9	15.73	10.25	32.0

(1) ETR DENOTES EXIST. TO REMAIN
(2) WEIGHT WITHOUT MOUNTING BRACKET.
(3) ANTENNA DATA BASED ON RFDS REV0 DATED 07/30/21
(4) EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND.
(5) NOT TO EXCEED

BILL OF MATERIALS

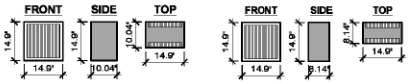
		QUANTITY	LENGTH	COMMENTS
(1)	SAMSUNG MT6407-77A	3		MOUNTED TO EXIST. PIPE MAST
(2)	1/2" JUMPER CABLE	38	15 FT	ROUTE FROM RRH TO ANTENNAS
(3)	RET CABLES	3	6 FT	ROUTE FROM RRH TO ANTENNA
(4)	RET CABLES	3	9 FT	ROUTE FROM ANTENNA TO ANTENNA
(5)	ANTENNA LINK CABLES	6	15 M	ROUTE FROM UPPER OVP TO ANTENNAS
(6)	ANTENNA POWER CABLES	3	15 M	PROPIETARY POWER CABLE FROM EXIST. OVP TO ANTENNAS
(7)	700/850 RRH	3		SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)
(8)	AWS/PCS RRH	3		SAMSUNG B2/B66 RRH-BR049 (RFV01U-D1A)
(9)	RRH CABLES	6	15M	PROPIETARY POWER & FIBER CABLES
(10)	UPPER 6OVP	2		(RHSDC-3315-PF-48)
(11)	HYBRID CABLE (ALPHA)	1	175± FT	6x12 LOW INDUCTANCE HYBRID CABLE
(12)	HYBRID CABLE (BETA)	1	175± FT	6x12 LOW INDUCTANCE HYBRID CABLE

NOTES:
1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
2. INFORMATION IS BASED ON RFDS REV0 DATED 07/30/21.
3. * DENOTES EQUIPMENT DESIGNATED "FOR LEASING ONLY" (WHERE APPLICABLE)
4. INSTALL ALARM BOARDS AT ALL OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING.
5. INSTALL UP-CONVERTER(S) LOCATED AT BASE OVPs WHERE REQUIRED. COORDINATE w/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
6. COORDINATE ANTENNA CABLING REQUIREMENTS WITH VERIZON ENGINEERING.
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.



SAMSUNG MT6407-77A ANTENNA
HxWxD=35.1"x16.1"x5.51"
WT=67.1 Lbs
(NOT TO EXCEED)

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

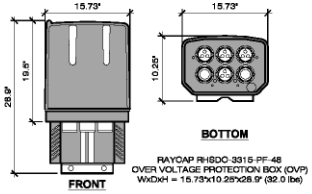


SAMSUNG DUAL HIGH BAND B2/B66A
RRH-BR049 (RFV01U-D1A)
RRH PCS/AWS
REMOTE RADIO HEAD (RRH)
WxDxH=14.9"x14.9"x10.04" (97.5 Lbs)

SAMSUNG DUAL HIGH BAND B5/B13
RRH-BR04C (RFV01U-D2A)
RRH 850/700
REMOTE RADIO HEAD (RRH)
WxDxH=14.9"x14.9"x8.14" (82.0 Lbs)

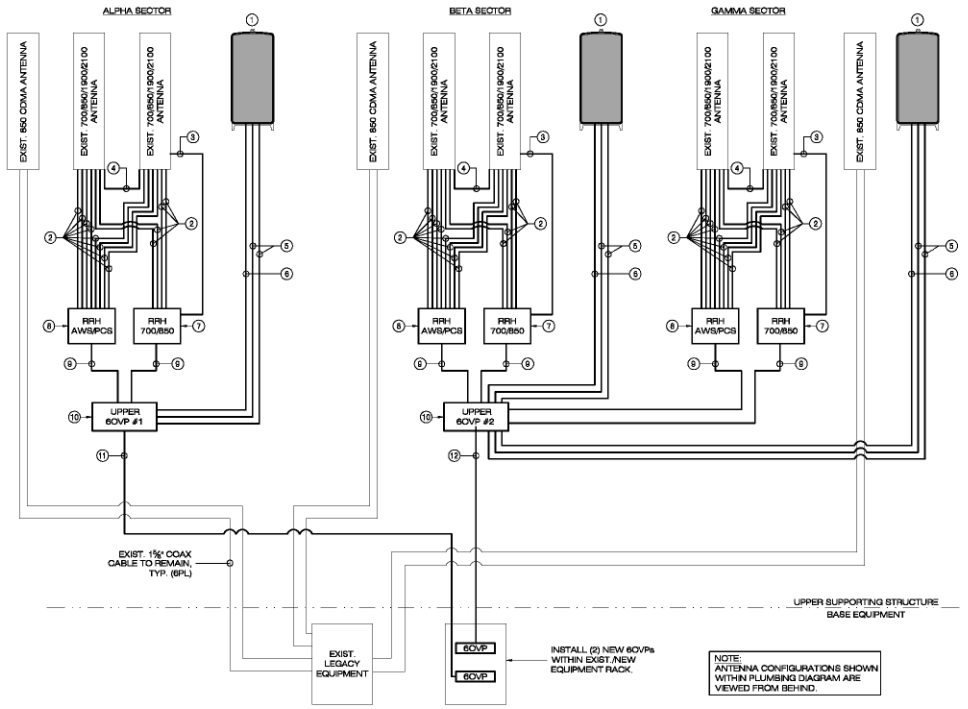
NOTE: WEIGHTS INCLUDE SOLAR SHIELD & MOUNTING BRACKET

3 B-1 RRH EQUIPMENT DETAILS
SCALE : ½" = 1'-0"



RAYCAP RHSDC-3315-PF-48
OVER VOLTAGE PROTECTION BOX (OVP)
WxDxH = 15.73"x10.25"x28.9" (32.0 lbs)

4 B-1 OVER VOLTAGE PROTECTION BOX (OVP)
SCALE : 1" = 1'-0"



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

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

ALL-POINTS TECHNOLOGY CORPORATION
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	08/06/21	FOR REVIEW: JRM
1	01/25/22	FOR FILING: JRM
2	01/26/22	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 BLOOMFIELD C/O POLICE STATION
ADDRESS: 800 BLOOMFIELD AVE. BLOOMFIELD, CT 06002

BLOOMFIELD 3 CT

SITE ADDRESS: 785 PARK AVENUE BLOOMFIELD, CT 06002

APT FILING NUMBER: CT141_12570

DRAWN BY: DRA
DATE: 08/06/21
CHECKED BY: JRM

VZ PROJECT CODE: 20212234137
VZ LOCATION CODE: 466782
VZ FUZE ID: 16272375

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-H (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 APNEWRIATE 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 OWNERS 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 NEWERLY 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 NEWERLY 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 APNEWRIATE, ALL APNEWRIATE 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 CONTRACTORS RESPONSIBILITY ON THE JOBSITE SHALL BE ADEQUATELY SECURED, MAINTAINED, AND PROTECTED, SO AS NOT TO BECOME DAMAGED OR CREATE ANY HAZARD TO PERSONNEL OR NEWERTY.

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 (1-1/8"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 CONTRACTORS 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 MANUFACTURERS 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 NEWERLY REFINED COPPER.
- FEEDER CIRCUIT CONDUCTORS SHALL BE EITHER COPPER OR ALUMINUM OF THE APNEWRIATE 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 NEWERLY 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 NEWERLY 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 CIRCUITS OVER-CURRENT PROTECTIVE DEVICE (OCPD) SIZE. WHERE THE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE ABOVE THE STANDARD FOR THE CIRCUITS OCPD, INCREASE THE GROUNDING CONDUCTOR NEWORTIONATELY 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 CONDUCTOS 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 (EGR). BOND THE SINGLE-POINT OR EGR 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 MANUFACTURERS AND OWNERS 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 MANUFACTURERS 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	08/06/21	FOR REVIEW: JRM
1	01/25/22	FOR FILING: JRM
2	01/26/22	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 BLOOMFIELD C/O POLICE STATION
ADDRESS: 800 BLOOMFIELD AVE. BLOOMFIELD, CT 06002

BLOOMFIELD 3 CT

SITE ADDRESS: 785 PARK AVENUE BLOOMFIELD, CT 06002

APT FILING NUMBER: CT141_12570

DRAWN BY: DRA

DATE: 08/06/21 CHECKED BY: JRM

VZ PROJECT CODE: 20212234137

VZ LOCATION CODE: 468782

VZ FUZE ID: 16272375

SHEET TITLE:

NOTES& SPECIFICATIONS

SHEET NUMBER:

N-1

SAMSUNG

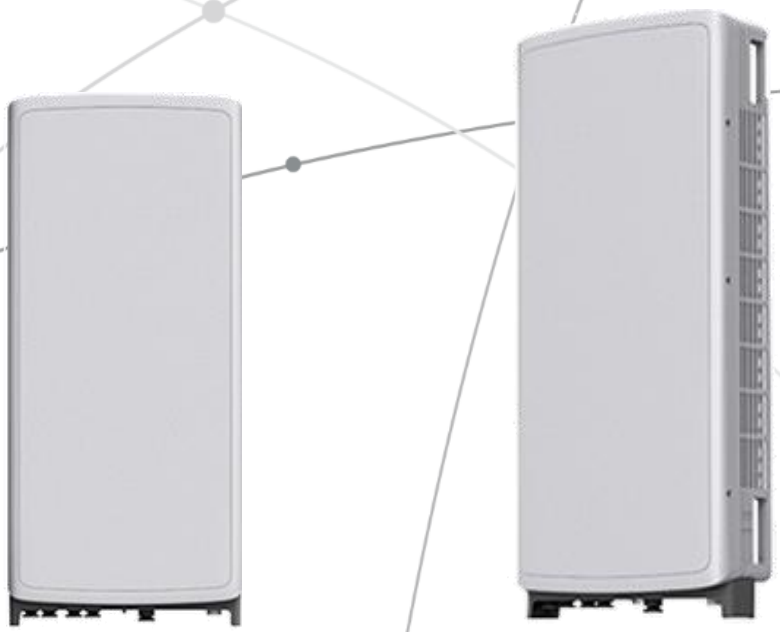
SAMSUNG

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

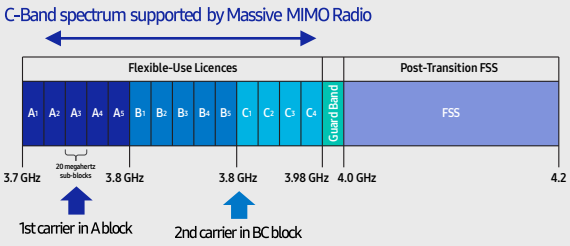


Points of Differentiation

Wide Bandwidth

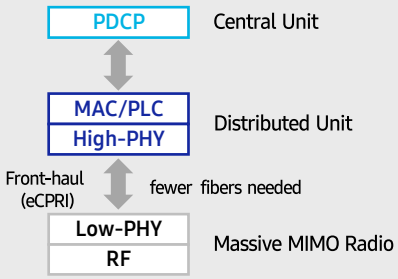
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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.

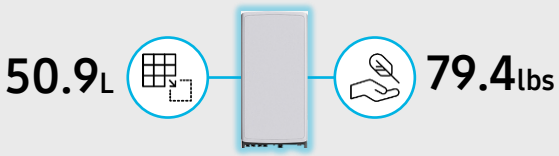
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

SAMSUNG

Dual-Band Radio Unit
AWS/PCS (B66/B2)
RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.

The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
    B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)
    B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)
Instantaneous Bandwidth:
    70MHz(B66) + 60MHz(B2)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 255mm (36.8L)
Weight: 38.3kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit
700/850MHz (B13/B5)
RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.

The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

ATTACHMENT 3

	General	Power	Density					
Site Name: Bloomfield 3								
Tower Height: Verizon @ 105ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*Police UHF	1.25	75	143.5	406	0.0018	0.2707	0.07%	
*Police Back up repeater	1	161	144	453.83	0.003	0.3026	0.10%	
*Hartford Co. Fire	1	86	147.2	33.94	0.0016	0.2	0.08%	
*State Police	1	89	72.8	45.86	0.0072	0.2	0.36%	
*NPSAC	1	35	141.5	821.01	0.0007	0.5473	0.01%	
*RAFS	2	39	94	460.06	0.0036	0.3067	0.12%	
*Sprint	1	377	115	850	0.0114	0.5667	0.20%	
*Sprint	2	377	115	850	0.0228	0.5667	0.40%	
*Sprint	5	512	115	1900	0.0775	1	0.77%	
*Sprint	2	1280	115	1900	0.0775	1	0.77%	
*Sprint	1	2512	115	11000	0.076	1	0.76%	
*Sprint	8	640	115	2500	0.155	1	1.55%	
*Nextel	12	100	89	851	0.0626	0.5673	1.10%	
*Clearwire	2	153	115	2496	0.0093	1	0.09%	
*Clearwire	1	211	115	11 GHz	0.0064	1	0.06%	
*T-Mobile	2	6413	138	2500	0.2647	1	2.65%	
*T-Mobile	2	6413	138	2500	0.2647	1	2.65%	
*T-Mobile	2	649	138	700	0.0268	0.4667	0.57%	
*T-Mobile	2	592	138	600	0.0244	0.4	0.61%	
*T-Mobile	1	1578	138	600	0.0326	0.4	0.81%	
*T-Mobile	2	2204	138	1900	0.091	1	0.91%	
*T-Mobile	2	1295	138	2100	0.0535	1	0.53%	
*T-Mobile	2	2308	138	2100	0.0953	1	0.95%	
*T-Mobile	2	2057	138	1900	0.0849	1	0.85%	
*T-Mobile	4	1028	138	1900	0.0849	1	0.85%	
VZW 700	**4**	**698**	**105**	**751**	**0.0091**	**0.5007**	**1.82%**	
VZW CDMA	**2**	**396**	**105**	**869**	**0.0026**	**0.5793**	**0.45%**	
VZW Cellular	**4**	**826**	**105**	**869**	**0.0108**	**0.5793**	**1.86%**	
VZW PCS	**4**	**1593**	**105**	**1980**	**0.0208**	**1.0000**	**2.08%**	
VZW AWS	**4**	**1581**	**105**	**2120**	**0.0206**	**1.0000**	**2.06%**	
VZW CBAND	**4**	**6531**	**105**	**3730.08**	**0.0852**	**1.0000**	**8.52%**	
								34.61%
* Source: Siting Council								

ATTACHMENT 4

CONDITION ASSESSMENT & STRUCTURAL ANALYSIS REPORT
136-ft MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT

Prepared for
Verizon Wireless

Verizon Wireless Site Ref:
468782; Bloomfield 3 CT

Site Address: 785 Park Avenue, Bloomfield, Connecticut 06002

APT Filing No. CT141_12570

January 25, 2022
Rev. 1 January 26, 2022

ALL-POINTS TECHNOLOGY CORPORATION, P.C.
567 VAUXHALL STREET EXTENSION · SUITE 311 · WATERFORD, CT 06385 · PHONE 860-663-1697

CONDITION ASSESSMENT & STRUCTURAL ANALYSIS REPORT
136-ft MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
prepared for
Verizon Wireless

EXECUTIVE SUMMARY:

All-Points Technology Corporation, P.C. (APT) performed a condition assessment and structural evaluation of an existing 136-ft monopole tower structure to support a proposed Verizon equipment modification.

The proposed Verizon antenna and appurtenance modification consists of the replacement of three (3) existing panel antennas, six (6) existing remote radio heads (RRHs) and one (1) existing 6OVP with three (3) new LSub-6 antennas w/ integrated RRHs, six (6) new Samsung dual-band RRHs, and two (2) new 6OVPs. Equipment shall be fed by six (6) existing 1-5/8" coaxial cables and two (2) new 6x12 Low-Inductance (LI) hybrid lines routed vertically inside the monopole as specified in the table below. All other existing equipment is to remain.

Equipment shall be installed on the existing 14-foot low-profile platform. The existing platform requires modification prior to the installation of the new Verizon equipment.

Our analysis indicates that the subject tower structure and base foundation meets the requirements of the International Building Code 2015 (IBC 2015), as amended by the 2018 Connecticut State Building Code, and the ANSI/TIA-222-H standard with the existing, proposed and future equipment loading.

INTRODUCTION:

A condition assessment and structural analysis was performed on the above-mentioned communications tower by APT for Verizon Wireless. The subject tower is located at 785 Park Avenue in Bloomfield, Connecticut.

The following information was utilized in the preparation of this analysis:

- Field observations compiled during a site visit conducted by APT on June 23, 2021.
- Structural Analysis Report prepared by Hudson Design Group, LLC, dated May 31, 2017.
- Structural Analysis Report prepared by Maser Consulting Connecticut, (Maser Project No. 17924009A) dated October 23, 2017.
- Structural Analysis Report prepared by Centek Engineering, Inc. (Project No. 18098.03) marked Rev 1, dated September 10, 2018.
- RFDS provided by Verizon Wireless, latest version.
- Post-Modification Antenna Mount Analysis Report and PMI Requirements prepared by Maser Consulting Connecticut (Maser Project No. 21777224A) dated November 16, 2021.
- Mount Modification Drawings prepared by Colliers Engineering & Design (Job No. 21777224A) dated November 16, 2021.
- Construction Drawings prepared by APT (APT Project No. CT141_12570), marked Rev. 2 dated January 26, 2022.

The analysis was conducted with the following antenna inventory (proposed equipment shown in **bold** text):

Carrier	Antenna and Appurtenance Make/Model	Elevation [3]	Status	Mount Type	Coax/Feed-Line
	Cambium PTP400, Transtector box	140'	ETR	4' x 2-3/8" Pipe Mount	1/4"
	18' 8-Bay Dipole	137'	ETR	Center Pole	(2) 7/8"
T-Mobile	(3) Ericsson AIR32, (3) Ericsson AIR 6449 B41 & (3) RFS APXVAARR24-43 panels, (3) Radio 4449 B71+B12 RRHs, (3) Radio 4415 B25 RRHs, (3) Twin TMAs	136'	ETR	15' Platform w/ Rails	(18) 1-5/8" [2]
Sprint	(3) Andrew NNVV-65B-R4 & (3) Commscope LLPX-310 R panels, (6) FD-RRH 2x50 800 RRHs, (3) FD-RRH 4x45 1900 RRHs, 14" Microwave Dish w/ ODU	115'	ETR	(3) 6' T-Arms	(4) 1-1/4", (2) 2" conduit, 1/2"
Verizon	(6) Andrew SBNHH-1D65A, (1) Amphenol BXA-80080/4, (1) Amphenol BXA-80080/6, (1) Amphenol BXA-80063/4 & **(3) Samsung MT6407-77A antennas w/ integrated RRHs, (3) Samsung RFV01U-D1A RRHs, (3) Samsung RFV01U-D2A RRHs, (2) Raycap RHSDC-3315-PF-48 6OVPs**	105'	ETR ETR ETR ETR **P** **P** **P** **P**	14' Low-Profile Platform **w/ reinforcements**	**(6)** 1-5/8", **(2) 6x12 LI hybrid feed lines**
	(3) DB Spectra DS7C09P36U (14' Omnidirectional Whip)	85'	E	(3) 3' Standoffs	(3) 1-5/8"
	(3) Cambium PTP400, (2) Transtector boxes	80'	E	(3) 4' x 2-3/8" Pipe Mounts	(3) 1/4"
	3' Microwave Dish	75'	E	Chain Mount	1/2"
	14" dish w/ ODU	72'	E	Chain Mount, 4' x 2-3/8" Pipe Mount	1/2"

Notes:

1. ETR = Existing to remain; P = Proposed.
2. APT observed eight of T-Mobile's existing feed lines were inactive.
3. Elevations refer to AGL.

CONDITION ASSESSMENT:

- **General Observations:** The tower, an 18-sided tapered steel monopole, appeared to be in sound condition. No signs of movement or overstress of the tower were observed.

- **Antenna Connections:** Antenna mounting hardware was in good condition, with corrosion resistant hardware and galvanized members prevalent. **APT observed eight of T-Mobile's existing feed lines were inactive.**

- **Base Plate:** Base plate and anchor bolts appeared to be in good condition. No loose or missing nuts were observed.

- **Foundation:** Visible concrete appeared to be in good condition.

STRUCTURAL ANALYSIS:

Methodology:

This structural analysis has been prepared in accordance with the ANSI/TIA-222-H standard entitled "Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures"; American Institute of Steel Construction (AISC) Manual of Steel Construction, and the 2015 International Building Code (IBC), as amended by the 2018 Connecticut State Building Code.

Antenna, appurtenance and mount assembly loads were evaluated utilizing the ANSI/TIA-222-H standard.

- Load Case 1: 126 mph (3-second gust), 0" ice (Ultimate Wind Speed)
- Load Case 2: 50mph (3-second gust) w/ 1.5" ice thickness
- Load Case 3: 60mph (3-second gust) (Service Load)
- Risk Category: III
- Exposure Category: B
- Topographic Category: 1

ANALYSIS RESULTS:

The analysis was conducted in accordance with the criteria outlined above with the aforementioned existing and proposed equipment loading. The following table summarizes the results of the analysis:

Elevation	Pole Capacity [1,2]
88.75'-137'	61%
47.75'-88.75'	53%
1'-47.75'	57%
Base Plate	60%

Notes:
1. Based on ASTM A572 Gr. 65 tapered pole. Pole diameter and thickness vary.
2. Based on ASTM A572 Gr. 55 base plate. Base plate is 3.25" thick.

Foundation:

The existing foundation system consists of a 7-ft dia. x 32-ft long reinforced concrete caisson. An evaluation of the existing caisson was performed utilizing caisson design data and subsoil characteristics noted within a previous structural analysis report prepared by Centek Engineering dated September 10, 2018. The Centek caisson analysis was based on original tower manufacturer design information prepared by Paul J. Ford & Company on behalf of PennSummit Tubular, LLC dated September 17, 2002.

Base reactions imposed with the proposed and future equipment changes were calculated as follows:

Load Effect	Calculated Reaction
Max Axial	72.8 k
Max Shear	28.0 k
Overturning Moment	2,476 ft-k

The caisson foundation was found to be structurally adequate:

Design Limit	Proposed Loading	Result
Moment Capacity	67%	PASS
Lateral Deflection	0.08" [2]	PASS

[2] Lateral deflection as calculated under service load of 60mph (3 sec, gust Nominal).

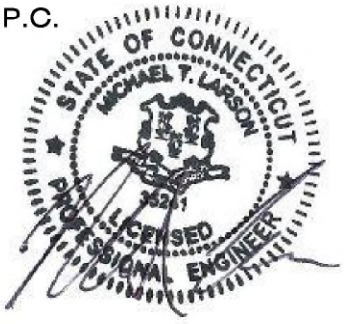
CONCLUSIONS AND SUGGESTIONS:

In conclusion, our analysis indicates that the existing 136-ft monopole tower structure, located at 785 Park Avenue in Bloomfield, Connecticut meets the requirements of IBC 2015, as amended by the 2018 Connecticut State Building Code, and the ANSI/TIA-222-H standard with the existing, proposed and future equipment loading.

The existing foundation system consists of a 6-ft dia. x 45.5-ft long reinforced concrete caisson. An evaluation of the existing caisson was performed utilizing caisson design data and subsoil characteristics noted within an aforementioned structural analysis report previously provided to APT. The existing caisson was found to be adequately sized to support the proposed equipment configuration.

Sincerely,
All-Points Technology Corp. P.C.

Michael T. Larson, P.E.
Project Engineer



Prepared By:
All-Points Technology Corp. P.C.

Ali Adair
Project Scientist

LIMITATIONS:

This report is based on the following:

1. Tower is properly installed and maintained.
2. All members are in an undeteriorated condition.
3. All bolts are in place and are properly tightened.
4. Tower is in plumb condition.
5. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.
6. Record drawings accurately reflect tower dimensions and height.

All-Points Technology Corporation, P.C. (APT) is not responsible for any modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

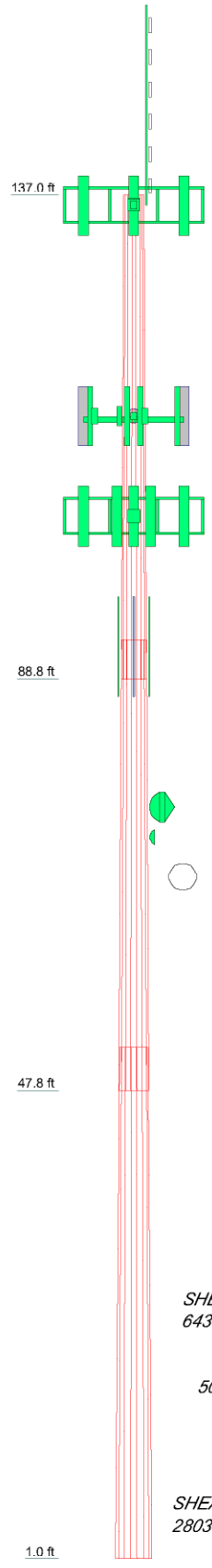
1. Adding or relocating antennas.
2. Installing antenna mounting gates or side arms.
3. Extending tower.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

Appendix A

Tower Schematic

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (lb)
1	48.25	18	0.1875	4.00	23.0000	30.2200		2581.8
2	45.00	18	0.3750	4.25	29.2465	36.3600	A607-65	5910.3
3	51.00	18	0.5000		34.9382	43.3600		10644.4
								19136.5



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
PTP400	137	MT6407-77A (Verizon)	105
Transtector (1101-778 ALPU-ORT)	137	B5/B13 RRHBR04C (RFV01UD2A) (Verizon)	105
4'x2 3/8" Pipe Mount	137	B5/B13 RRHBR04C (RFV01UD2A) (Verizon)	105
18' 8 Bay Di-Pole	137	B5/B13 RRHBR04C (RFV01UD2A) (Verizon)	105
AIR32 B66Aa/B2a (T-Mobile)	136	B2/B66A RRHBRO49 (RFV01U-D1A) (Verizon)	105
AIR32 B66Aa/B2a (T-Mobile)	136	B2/B66A RRHBRO49 (RFV01U-D1A) (Verizon)	105
AIR32 B66Aa/B2a (T-Mobile)	136	B2/B66A RRHBRO49 (RFV01U-D1A) (Verizon)	105
AIR 6449 B41 (T-Mobile)	136	Raycap RHSDC-3315-PF-48 D-box (Verizon)	105
AIR 6449 B41 (T-Mobile)	136	Raycap RHSDC-3315-PF-48 D-box (Verizon)	105
AIR 6449 B41 (T-Mobile)	136	14' low-profile platform (Verizon)	105
APXVAARR 24_43 (T-Mobile)	136	3.5' L3x3 angle (Verizon)	105
APXVAARR 24_43 (T-Mobile)	136	3.5' L3x3 angle (Verizon)	105
APXVAARR 24_43 (T-Mobile)	136	3.5' L3x3 angle (Verizon)	105
Radio 4449 (T-Mobile)	136	SitePro1 VZWSMART-PLK5 kicker kit (Verizon)	105
Radio 4449 (T-Mobile)	136	(2) 6'x2 3/8" Pipe Mount (Verizon)	105
Radio 4449 (T-Mobile)	136	13.5' x 2-7/8" pipe mount (Verizon)	105
Radio 4415 (T-Mobile)	136	13.5' x 2-7/8" pipe mount (Verizon)	105
Radio 4415 (T-Mobile)	136	13.5' x 2-7/8" pipe mount (Verizon)	105
Radio 4415 (T-Mobile)	136	(2) SBNHH-1D65A (Verizon)	105
Twin TMA (T-Mobile)	136	db Spectra DS7C09P36U-D	85
Twin TMA (T-Mobile)	136	db Spectra DS7C09P36U-D	85
Twin TMA (T-Mobile)	136	3' standoffs w/ HSS arms	85
15' platform w/rails (T-Mobile)	136	3' standoffs w/ HSS arms	85
NNVV-65B-R4 (Sprint)	115	3' standoffs w/ HSS arms	85
NNVV-65B-R4 (Sprint)	115	db Spectra DS7C09P36U-D	85
NNVV-65B-R4 (Sprint)	115	PTP400	80
LLPX310R-V1 (Sprint)	115	PTP400	80
LLPX310R-V1 (Sprint)	115	Transtector (1101-778 ALPU-ORT)	80
LLPX310R-V1 (Sprint)	115	Transtector (1101-778 ALPU-ORT)	80
(2) FD-RRH-2x50-800 (Sprint)	115	4'x2 3/8" Pipe Mount	80
(2) FD-RRH-2x50-800 (Sprint)	115	4'x2 3/8" Pipe Mount	80
(2) FD-RRH-2x50-800 (Sprint)	115	4'x2 3/8" Pipe Mount	80
FD-RRH-4x45-1900 (Sprint)	115	PTP400	80
FD-RRH-4x45-1900 (Sprint)	115	3' dish with radome	76
FD-RRH-4x45-1900 (Sprint)	115	14" dish	73
6' T-arm (Sprint)	115	DragonWave Horizon Compact + ODU	72
6' T-arm (Sprint)	115	4'x2 3/8" Pipe Mount	72
6' T-arm (Sprint)	115		
DragonWave Horizon Compact + ODU	115		
14" dish	115		
(2) SBNHH-1D65A (Verizon)	105		
(2) SBNHH-1D65A (Verizon)	105		
BXA-80080/6 (Verizon)	105		
BXA-80063/4 (Verizon)	105		
BXA-80080/4 (Verizon)	105		
MT6407-77A (Verizon)	105		
MT6407-77A (Verizon)	105		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-65	65 ksi	80 ksi			

ALL REACTIONS ARE FACTORED

AXIAL 72833 lb

SHEAR 6436 lb *MOMENT 606499 lb-ft*

TORQUE 140 lb-ft
50 mph WIND - 1.5000 in ICE

AXIAL 37866 lb

SHEAR 28038 lb *MOMENT 2475540 lb-ft*

TORQUE 372 lb-ft
REACTIONS - 126 mph WIND

All Points Technology
567 Vauxhall St. Ext., Suite 311
Waterford, CT 06385
Phone: (860) 663-1697
FAX: (860) 663-0935

Job: **136' Monopole Tower**
Project: **CT141_12570 Bloomfield 3**
Client: VzW Site #468782; Bloomfield 3 CT | Drawn by: AMA | App'd:
Code: TIA-222-H | Date: 01/05/22 | Scale: NTS
Path: C:\Users\User\Documents\APTR\old\Verizon Wireless\CT141_12570 Bloomfield 3\CT141_12570 Bloomfield 3.ERI | Dwg No. E-1

Appendix B

Photographs

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Overview photo of the existing 136' monopole tower.

Overview photos of existing equipment and mounts.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Photo of existing hatch plates and ground bar at shelter.

Photo of existing feed lines and ground bars at tower.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Additional photos of existing feed lines and ground bars at tower.

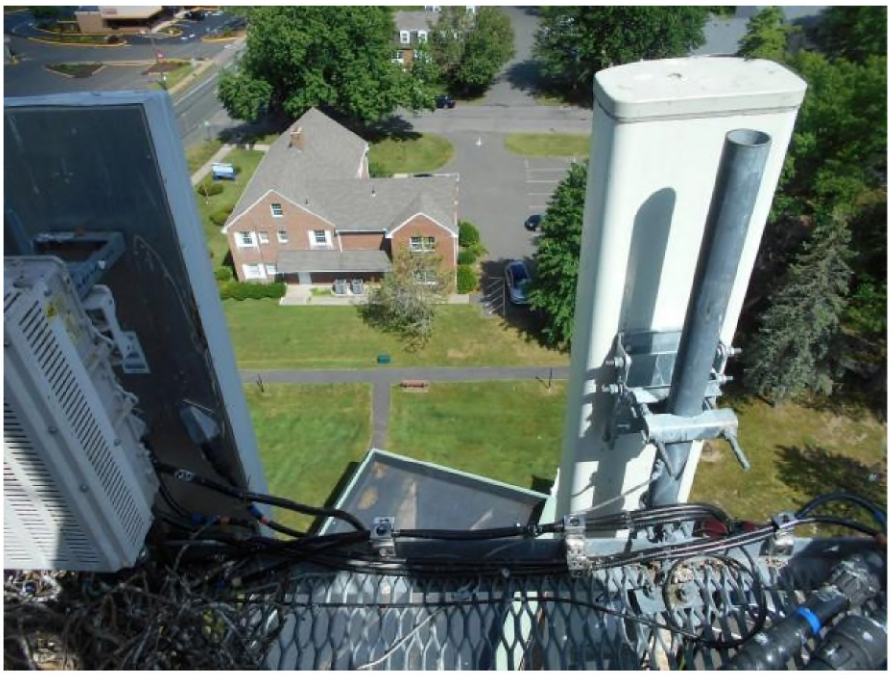
Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Photos of existing feed lines and ice bridges.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT



Photos of Verizon Wireless's typical existing equipment and mounts at 105'.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Additional photos of Verizon Wireless's typical existing equipment and mounts at 105'.

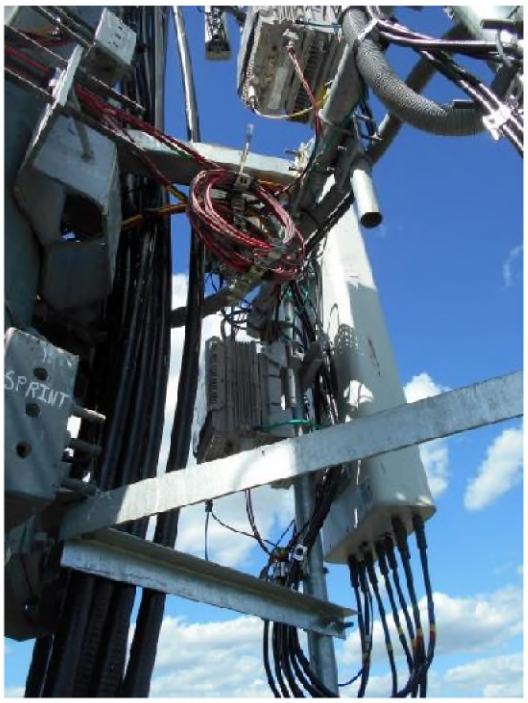
Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Photos of Sprint's typical existing equipment and mounts at 115'.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT



Additional photos of Sprint's typical existing equipment and mounts at 115'.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Photos of T-Mobile's typical existing equipment and mounts at 136'.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Additional photos of T-Mobile's typical existing equipment and mounts at 136'.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Photos of typical existing equipment and mounts.

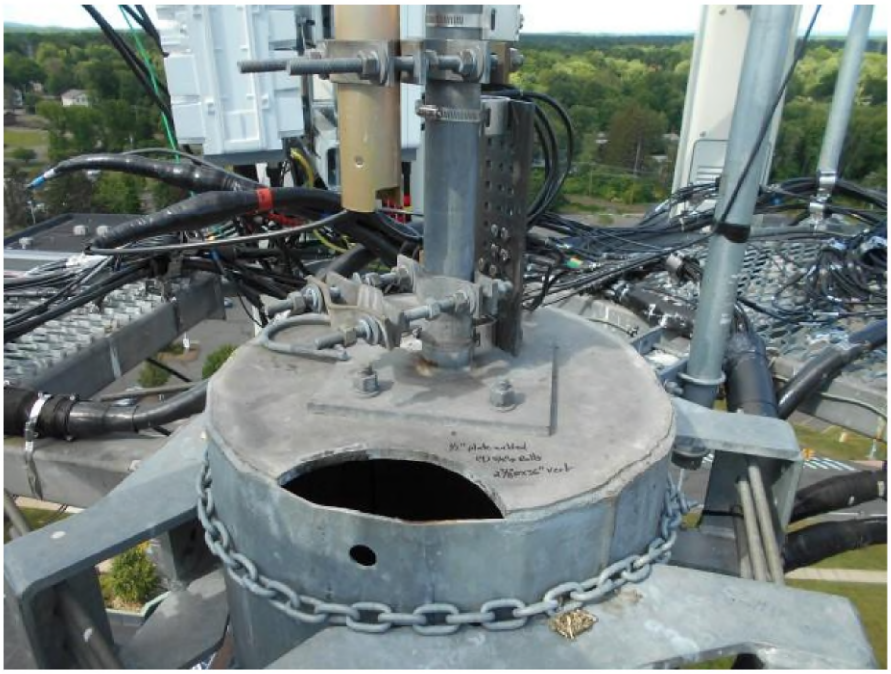
Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Additional photos of typical existing equipment and mounts.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT



Photos of existing top mount.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Overview photos of existing ice bridges from tower.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

VERIZON WIRELESS
136' MONOPOLE TOWER
BLOOMFIELD, CONNECTICUT
VERIZON SITE #468782; BLOOMFIELD 3 CT

Photos of typical existing base foundation.

Photos taken by All-Points Technology Corporation, P.C. on June 23, 2021.

Appendix C

Calculations

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower base elevation above sea level: 1.00 ft.
Basic wind speed of 126 mph.
Risk Category III.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.5000 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 pole design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
1 1/4 (Clearwire)	C	Yes	Surface Ar (CaAa)	115.00 - 6.00	4	4	0.000 0.000	0.7500		0.66
1 5/8 (T-Mobile)	C	Yes	Surface Ar (CaAa)	136.00 - 6.00	6	6	0.000 0.000	1.9800		1.04

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
1 5/8	C	No	Yes	Inside Pole	85.00 - 6.00	3	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
							2" Ice	0.00	1.04
7/8	C	No	Yes	Inside Pole	137.00 - 6.00	2	No Ice	0.00	0.54
							1/2" Ice	0.00	0.54
							1" Ice	0.00	0.54
							2" Ice	0.00	0.54
1/2	C	No	Yes	Inside Pole	75.00 - 6.00	1	No Ice	0.00	0.25
							1/2" Ice	0.00	0.25
							1" Ice	0.00	0.25
							2" Ice	0.00	0.25
1/2	C	No	Yes	Inside Pole	72.00 - 6.00	1	No Ice	0.00	0.25
							1/2" Ice	0.00	0.25
							1" Ice	0.00	0.25

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
							2" Ice	0.00	0.25
1/4	C	No	Yes	Inside Pole	80.00 - 6.00	3	No Ice	0.00	0.05
							1/2" Ice	0.00	0.05
							1" Ice	0.00	0.05
							2" Ice	0.00	0.05
1/4	C	No	Yes	Inside Pole	137.00 - 6.00	1	No Ice	0.00	0.05
							1/2" Ice	0.00	0.05
							1" Ice	0.00	0.05
							2" Ice	0.00	0.05
1/2 (Clearwire)	C	No	Yes	Inside Pole	115.00 - 6.00	1	No Ice	0.00	0.25
							1/2" Ice	0.00	0.25
							1" Ice	0.00	0.25
							2" Ice	0.00	0.25
2" conduit (Clearwire)	C	No	Yes	Inside Pole	115.00 - 6.00	2	No Ice	0.00	2.00
							1/2" Ice	0.00	2.00
							1" Ice	0.00	2.00
							2" Ice	0.00	2.00
1 5/8 (T-Mobile)	C	No	Yes	Inside Pole	136.00 - 6.00	12	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
							2" Ice	0.00	1.04
1 5/8 (Verizon)	C	No	Yes	Inside Pole	104.00 - 6.00	6	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
							2" Ice	0.00	1.04
6x12 LI hybrid (Verizon)	C	No	Yes	Inside Pole	104.00 - 6.00	2	No Ice	0.00	1.88
							1/2" Ice	0.00	1.88
							1" Ice	0.00	1.88
							2" Ice	0.00	1.88

Discrete Tower Loads

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 lb
PTP400	B	From Leg	0.50 0.00 4.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.75 1.92 2.09 2.46	0.48 0.58 0.69 0.92	15.00 26.43 40.18 75.41
Transtector (1101-778 ALPU-ORT)	B	From Leg	0.50 0.00 4.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.25 0.31 0.39 0.56	0.13 0.19 0.25 0.39	2.00 4.34 7.76 18.59
4'x2 3/8" Pipe Mount	B	From Leg	0.00 0.00 4.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.87 1.11 1.36 1.90	0.87 1.11 1.36 1.90	14.60 21.91 32.07 61.50
18' 8 Bay Di-Pole	B	From Leg	0.50 0.00 9.00	0.0000	137.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.00 6.00 8.00 12.00	4.00 6.00 8.00 12.00	55.00 100.00 145.00 235.00
AIR32 B66Aa/B2a (T-Mobile)	A	From Face	4.00 0.00 0.00	0.0000	136.00	No Ice 1/2" Ice 1" Ice	6.51 6.89 7.27	4.71 5.07 5.43	133.00 178.82 229.91

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight lb
						2" Ice	8.06	6.18	348.65
AIR32 B66Aa/B2a	B	From Face	4.00	0.0000	136.00	No Ice	6.51	4.71	133.00
(T-Mobile)			0.00			1/2" Ice	6.89	5.07	178.82
			0.00			1" Ice	7.27	5.43	229.91
						2" Ice	8.06	6.18	348.65
AIR32 B66Aa/B2a	C	From Face	4.00	0.0000	136.00	No Ice	6.51	4.71	133.00
(T-Mobile)			0.00			1/2" Ice	6.89	5.07	178.82
			0.00			1" Ice	7.27	5.43	229.91
						2" Ice	8.06	6.18	348.65
AIR 6449 B41	A	From Face	4.00	0.0000	136.00	No Ice	5.68	2.49	110.00
(T-Mobile)			0.00			1/2" Ice	5.98	2.72	149.12
			0.00			1" Ice	6.29	2.95	192.46
						2" Ice	6.93	3.44	292.63
AIR 6449 B41	B	From Face	4.00	0.0000	136.00	No Ice	5.68	2.49	110.00
(T-Mobile)			0.00			1/2" Ice	5.98	2.72	149.12
			0.00			1" Ice	6.29	2.95	192.46
						2" Ice	6.93	3.44	292.63
AIR 6449 B41	C	From Face	4.00	0.0000	136.00	No Ice	5.68	2.49	110.00
(T-Mobile)			0.00			1/2" Ice	5.98	2.72	149.12
			0.00			1" Ice	6.29	2.95	192.46
						2" Ice	6.93	3.44	292.63
APXVAARR 24_43	A	From Face	4.00	0.0000	136.00	No Ice	20.24	8.89	75.00
(T-Mobile)			0.00			1/2" Ice	20.89	9.49	187.59
			0.00			1" Ice	21.54	10.09	308.72
						2" Ice	22.87	11.33	577.33
APXVAARR 24_43	B	From Face	4.00	0.0000	136.00	No Ice	20.24	8.89	75.00
(T-Mobile)			0.00			1/2" Ice	20.89	9.49	187.59
			0.00			1" Ice	21.54	10.09	308.72
						2" Ice	22.87	11.33	577.33
APXVAARR 24_43	C	From Face	4.00	0.0000	136.00	No Ice	20.24	8.89	75.00
(T-Mobile)			0.00			1/2" Ice	20.89	9.49	187.59
			0.00			1" Ice	21.54	10.09	308.72
						2" Ice	22.87	11.33	577.33
Radio 4449	A	From Face	3.50	0.0000	136.00	No Ice	1.65	1.16	80.00
(T-Mobile)			0.00			1/2" Ice	1.81	1.30	96.16
			0.00			1" Ice	1.98	1.45	114.95
						2" Ice	2.34	1.76	161.18
Radio 4449	B	From Face	3.50	0.0000	136.00	No Ice	1.65	1.16	80.00
(T-Mobile)			0.00			1/2" Ice	1.81	1.30	96.16
			0.00			1" Ice	1.98	1.45	114.95
						2" Ice	2.34	1.76	161.18
Radio 4449	C	From Face	3.50	0.0000	136.00	No Ice	1.65	1.16	80.00
(T-Mobile)			0.00			1/2" Ice	1.81	1.30	96.16
			0.00			1" Ice	1.98	1.45	114.95
						2" Ice	2.34	1.76	161.18
Radio 4415	A	From Face	3.50	0.0000	136.00	No Ice	1.64	0.68	50.00
(T-Mobile)			0.00			1/2" Ice	1.80	0.79	62.41
			0.00			1" Ice	1.97	0.91	77.18
						2" Ice	2.32	1.18	114.61
Radio 4415	B	From Face	3.50	0.0000	136.00	No Ice	1.64	0.68	50.00
(T-Mobile)			0.00			1/2" Ice	1.80	0.79	62.41
			0.00			1" Ice	1.97	0.91	77.18
						2" Ice	2.32	1.18	114.61
Radio 4415	C	From Face	3.50	0.0000	136.00	No Ice	1.64	0.68	50.00
(T-Mobile)			0.00			1/2" Ice	1.80	0.79	62.41
			0.00			1" Ice	1.97	0.91	77.18
						2" Ice	2.32	1.18	114.61

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 lb
Twin TMA	A	From Face	3.50	0.0000	136.00	No Ice	0.57	0.28	15.00
(T-Mobile)			0.00			1/2" Ice	0.67	0.35	19.83
			0.00			1" Ice	0.77	0.43	26.16
						2" Ice	1.00	0.62	44.13
Twin TMA	B	From Face	3.50	0.0000	136.00	No Ice	0.57	0.28	15.00
(T-Mobile)			0.00			1/2" Ice	0.67	0.35	19.83
			0.00			1" Ice	0.77	0.43	26.16
						2" Ice	1.00	0.62	44.13
Twin TMA	C	From Face	3.50	0.0000	136.00	No Ice	0.57	0.28	15.00
(T-Mobile)			0.00			1/2" Ice	0.67	0.35	19.83
			0.00			1" Ice	0.77	0.43	26.16
						2" Ice	1.00	0.62	44.13
15' platform w/rails	A	None		0.0000	136.00	No Ice	13.50	11.69	1400.00
(T-Mobile)						1/2" Ice	14.55	12.61	2418.60
						1" Ice	15.61	13.54	3459.74
						2" Ice	17.76	15.42	5610.46
NNVV-65B-R4	A	From Leg	1.00	0.0000	115.00	No Ice	12.27	5.75	81.00
(Sprint)			0.00			1/2" Ice	12.77	6.21	153.14
			0.00			1" Ice	13.27	6.67	231.92
						2" Ice	14.29	7.62	410.17
NNVV-65B-R4	B	From Leg	1.00	0.0000	115.00	No Ice	12.27	5.75	81.00
(Sprint)			0.00			1/2" Ice	12.77	6.21	153.14
			0.00			1" Ice	13.27	6.67	231.92
						2" Ice	14.29	7.62	410.17
NNVV-65B-R4	C	From Leg	1.00	0.0000	115.00	No Ice	12.27	5.75	81.00
(Sprint)			0.00			1/2" Ice	12.77	6.21	153.14
			0.00			1" Ice	13.27	6.67	231.92
						2" Ice	14.29	7.62	410.17
LLPX310R-V1	A	From Leg	1.00	0.0000	115.00	No Ice	4.34	1.97	30.00
(Sprint)			0.00			1/2" Ice	4.64	2.24	56.12
			0.00			1" Ice	4.94	2.52	86.24
						2" Ice	5.56	3.08	159.27
LLPX310R-V1	B	From Leg	1.00	0.0000	115.00	No Ice	4.34	1.97	30.00
(Sprint)			0.00			1/2" Ice	4.64	2.24	56.12
			0.00			1" Ice	4.94	2.52	86.24
						2" Ice	5.56	3.08	159.27
LLPX310R-V1	C	From Leg	1.00	0.0000	115.00	No Ice	4.34	1.97	30.00
(Sprint)			0.00			1/2" Ice	4.64	2.24	56.12
			0.00			1" Ice	4.94	2.52	86.24
						2" Ice	5.56	3.08	159.27
(2) FD-RRH-2x50-800	A	From Leg	0.50	0.0000	115.00	No Ice	2.13	1.79	53.00
(Sprint)			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
						2" Ice	2.92	2.53	157.08
(2) FD-RRH-2x50-800	B	From Leg	0.50	0.0000	115.00	No Ice	2.13	1.79	53.00
(Sprint)			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
						2" Ice	2.92	2.53	157.08
(2) FD-RRH-2x50-800	C	From Leg	0.50	0.0000	115.00	No Ice	2.13	1.79	53.00
(Sprint)			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
						2" Ice	2.92	2.53	157.08
FD-RRH-4x45-1900	A	From Leg	0.50	0.0000	115.00	No Ice	2.42	2.42	60.00
(Sprint)			0.00			1/2" Ice	2.62	2.62	84.92
			0.00			1" Ice	2.84	2.84	113.16
						2" Ice	3.29	3.29	180.37
FD-RRH-4x45-1900	B	From Leg	0.50	0.0000	115.00	No Ice	2.42	2.42	60.00

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight lb
(Sprint)			0.00			1/2" Ice	2.62	2.62	84.92
			0.00			1" Ice	2.84	2.84	113.16
						2" Ice	3.29	3.29	180.37
FD-RRH-4x45-1900	C	From Leg	0.50	0.0000	115.00	No Ice	2.42	2.42	60.00
(Sprint)			0.00			1/2" Ice	2.62	2.62	84.92
			0.00			1" Ice	2.84	2.84	113.16
						2" Ice	3.29	3.29	180.37
6' T-arm	A	None		0.0000	115.00	No Ice	1.30	0.90	75.00
(Sprint)						1/2" Ice	1.54	1.08	119.98
						1" Ice	1.79	1.26	169.69
						2" Ice	2.31	1.65	284.09
6' T-arm	B	None		0.0000	115.00	No Ice	3.50	1.75	65.00
(Sprint)						1/2" Ice	4.85	2.43	95.00
						1" Ice	6.33	3.67	125.00
						2" Ice	8.90	4.47	185.00
6' T-arm	C	None		0.0000	115.00	No Ice	1.30	0.90	75.00
(Sprint)						1/2" Ice	1.54	1.08	119.98
						1" Ice	1.79	1.26	169.69
						2" Ice	2.31	1.65	284.09
DragonWave Horizon	C	None		0.0000	115.00	No Ice	0.69	0.32	10.00
Compact + ODU						1/2" Ice	0.80	0.40	15.82
						1" Ice	0.91	0.48	23.28
						2" Ice	1.16	0.68	43.89
(2) SBNHH-1D65A	A	From Face	4.00	0.0000	105.00	No Ice	5.88	3.86	44.00
(Verizon)			0.00			1/2" Ice	6.25	4.22	83.03
			0.00			1" Ice	6.62	4.57	127.06
						2" Ice	7.38	5.29	230.86
(2) SBNHH-1D65A	B	From Face	4.00	0.0000	105.00	No Ice	5.88	3.86	44.00
(Verizon)			0.00			1/2" Ice	6.25	4.22	83.03
			0.00			1" Ice	6.62	4.57	127.06
						2" Ice	7.38	5.29	230.86
(2) SBNHH-1D65A	C	From Face	4.00	0.0000	105.00	No Ice	5.88	3.86	44.00
(Verizon)			0.00			1/2" Ice	6.25	4.22	83.03
			0.00			1" Ice	6.62	4.57	127.06
						2" Ice	7.38	5.29	230.86
BXA-80080/6	A	From Face	4.00	0.0000	105.00	No Ice	7.57	3.76	25.00
(Verizon)			0.00			1/2" Ice	8.02	4.19	65.60
			0.00			1" Ice	8.47	4.63	112.01
						2" Ice	9.40	5.53	223.06
BXA-80063/4	B	From Face	4.00	0.0000	105.00	No Ice	4.71	2.25	20.00
(Verizon)			0.00			1/2" Ice	5.03	2.55	47.83
			0.00			1" Ice	5.35	2.85	79.94
						2" Ice	6.02	3.49	157.79
BXA-80080/4	C	From Face	4.00	0.0000	105.00	No Ice	4.80	2.84	20.00
(Verizon)			0.00			1/2" Ice	5.12	3.15	51.00
			0.00			1" Ice	5.45	3.47	86.43
						2" Ice	6.13	4.09	171.34
MT6407-77A	A	From Face	4.00	0.0000	105.00	No Ice	4.69	1.84	90.00
(Verizon)			0.00			1/2" Ice	4.98	2.06	119.24
			0.00			1" Ice	5.28	2.29	152.35
						2" Ice	5.89	2.77	230.94
MT6407-77A	B	From Face	4.00	0.0000	105.00	No Ice	4.69	1.84	90.00
(Verizon)			0.00			1/2" Ice	4.98	2.06	119.24
			0.00			1" Ice	5.28	2.29	152.35
						2" Ice	5.89	2.77	230.94
MT6407-77A	C	From Face	4.00	0.0000	105.00	No Ice	4.69	1.84	90.00
(Verizon)			0.00			1/2" Ice	4.98	2.06	119.24

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 lb
			0.00			1" Ice	5.28	2.29	152.35
						2" Ice	5.89	2.77	230.94
B5/B13 RRHBR04C	A	From Face	3.50	0.0000	105.00	No Ice	1.88	1.01	100.00
(RFV01UD2A)			0.00			1/2" Ice	2.05	1.14	116.43
(Verizon)			0.00			1" Ice	2.22	1.28	135.53
						2" Ice	2.60	1.59	182.50
B5/B13 RRHBR04C	B	From Face	3.50	0.0000	105.00	No Ice	1.88	1.01	100.00
(RFV01UD2A)			0.00			1/2" Ice	2.05	1.14	116.43
(Verizon)			0.00			1" Ice	2.22	1.28	135.53
						2" Ice	2.60	1.59	182.50
B5/B13 RRHBR04C	C	From Face	3.50	0.0000	105.00	No Ice	1.88	1.01	100.00
(RFV01UD2A)			0.00			1/2" Ice	2.05	1.14	116.43
(Verizon)			0.00			1" Ice	2.22	1.28	135.53
						2" Ice	2.60	1.59	182.50
B2/B66A RRHBRO49	A	From Face	3.50	0.0000	105.00	No Ice	1.88	1.25	85.00
(RFV01U-D1A)			0.00			1/2" Ice	2.05	1.39	103.34
(Verizon)			0.00			1" Ice	2.22	1.54	124.47
						2" Ice	2.60	1.86	175.87
B2/B66A RRHBRO49	B	From Face	3.50	0.0000	105.00	No Ice	1.88	1.25	85.00
(RFV01U-D1A)			0.00			1/2" Ice	2.05	1.39	103.34
(Verizon)			0.00			1" Ice	2.22	1.54	124.47
						2" Ice	2.60	1.86	175.87
B2/B66A RRHBRO49	C	From Face	3.50	0.0000	105.00	No Ice	1.88	1.25	85.00
(RFV01U-D1A)			0.00			1/2" Ice	2.05	1.39	103.34
(Verizon)			0.00			1" Ice	2.22	1.54	124.47
						2" Ice	2.60	1.86	175.87
Raycap RHSDC-3315-PF-48	A	None		0.0000	105.00	No Ice	1.34	3.79	40.00
D-box						1/2" Ice	1.49	4.04	71.37
(Verizon)						1" Ice	1.65	4.30	106.49
						2" Ice	1.98	4.84	188.76
Raycap RHSDC-3315-PF-48	C	None		0.0000	105.00	No Ice	1.34	3.79	40.00
D-box						1/2" Ice	1.49	4.04	71.37
(Verizon)						1" Ice	1.65	4.30	106.49
						2" Ice	1.98	4.84	188.76
14' low-profile platform	A	None		0.0000	105.00	No Ice	8.40	7.28	1200.00
(Verizon)						1/2" Ice	9.37	8.12	2063.51
						1" Ice	10.35	8.97	2947.93
						2" Ice	12.33	10.70	4780.24
3.5' L3x3 angle	A	None		0.0000	105.00	No Ice	0.90	0.07	14.70
(Verizon)						1/2" Ice	1.12	0.11	23.39
						1" Ice	1.35	0.16	34.99
						2" Ice	1.83	0.27	67.72
3.5' L3x3 angle	B	None		0.0000	105.00	No Ice	0.90	0.07	14.70
(Verizon)						1/2" Ice	1.12	0.11	23.39
						1" Ice	1.35	0.16	34.99
						2" Ice	1.83	0.27	67.72
3.5' L3x3 angle	C	None		0.0000	105.00	No Ice	0.90	0.07	14.70
(Verizon)						1/2" Ice	1.12	0.11	23.39
						1" Ice	1.35	0.16	34.99
						2" Ice	1.83	0.27	67.72
SitePro1 VZWSMART-PLK5	A	None		0.0000	105.00	No Ice	3.38	3.38	466.00
kicker kit						1/2" Ice	5.06	5.06	616.00
(Verizon)						1" Ice	6.75	6.75	766.00
						2" Ice	10.13	10.13	1066.00
(2) 6'x2 3/8" Pipe Mount	C	None		0.0000	105.00	No Ice	1.43	1.43	21.90
(Verizon)						1/2" Ice	1.92	1.92	32.73
						1" Ice	2.29	2.29	47.61

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight lb
						2" Ice	3.06	3.06	90.18
13.5' x 2-7/8" pipe mount (Verizon)	A	None		0.0000	105.00	No Ice	4.03	4.03	107.00
						1/2" Ice	5.46	5.46	136.25
						1" Ice	6.91	6.91	174.49
						2" Ice	9.85	9.85	278.58
13.5' x 2-7/8" pipe mount (Verizon)	B	None		0.0000	105.00	No Ice	4.03	4.03	107.00
						1/2" Ice	5.46	5.46	136.25
						1" Ice	6.91	6.91	174.49
						2" Ice	9.85	9.85	278.58
13.5' x 2-7/8" pipe mount (Verizon)	C	None		0.0000	105.00	No Ice	4.03	4.03	107.00
						1/2" Ice	5.46	5.46	136.25
						1" Ice	6.91	6.91	174.49
						2" Ice	9.85	9.85	278.58
db Spectra DS7C09P36U-D	A	From Leg	0.50 0.00 7.00	0.0000	85.00	No Ice	3.55	3.55	73.00
						1/2" Ice	5.00	5.00	99.33
						1" Ice	6.46	6.46	134.75
						2" Ice	9.45	9.45	233.44
db Spectra DS7C09P36U-D	B	From Leg	0.50 0.00 7.00	0.0000	85.00	No Ice	3.55	3.55	73.00
						1/2" Ice	5.00	5.00	99.33
						1" Ice	6.46	6.46	134.75
						2" Ice	9.45	9.45	233.44
db Spectra DS7C09P36U-D	C	From Leg	0.50 0.00 7.00	0.0000	85.00	No Ice	3.55	3.55	73.00
						1/2" Ice	5.00	5.00	99.33
						1" Ice	6.46	6.46	134.75
						2" Ice	9.45	9.45	233.44
3' standoffs w/ HSS arms	A	None		0.0000	85.00	No Ice	1.30	1.30	34.00
						1/2" Ice	1.57	1.57	45.51
						1" Ice	1.86	1.86	60.28
						2" Ice	2.38	2.38	80.04
3' standoffs w/ HSS arms	B	None		0.0000	85.00	No Ice	1.30	1.30	34.00
						1/2" Ice	1.57	1.57	45.51
						1" Ice	1.86	1.86	60.28
						2" Ice	2.38	2.38	80.04
3' standoffs w/ HSS arms	C	None		0.0000	85.00	No Ice	1.30	1.30	34.00
						1/2" Ice	1.57	1.57	45.51
						1" Ice	1.86	1.86	60.28
						2" Ice	2.38	2.38	80.04
PTP400	A	From Leg	0.50 0.00 0.00	0.0000	80.00	No Ice	1.75	0.48	15.00
						1/2" Ice	1.92	0.58	26.43
						1" Ice	2.09	0.69	40.18
						2" Ice	2.46	0.92	75.41
PTP400	B	From Leg	0.50 0.00 0.00	0.0000	80.00	No Ice	1.75	0.48	15.00
						1/2" Ice	1.92	0.58	26.43
						1" Ice	2.09	0.69	40.18
						2" Ice	2.46	0.92	75.41
PTP400	C	From Leg	0.50 0.00 0.00	0.0000	80.00	No Ice	1.75	0.48	15.00
						1/2" Ice	1.92	0.58	26.43
						1" Ice	2.09	0.69	40.18
						2" Ice	2.46	0.92	75.41
Transtector (1101-778 ALPU-ORT)	A	From Leg	0.50 0.00 0.00	0.0000	80.00	No Ice	0.25	0.13	2.00
						1/2" Ice	0.31	0.19	4.34
						1" Ice	0.39	0.25	7.76
						2" Ice	0.56	0.39	18.59
Transtector (1101-778 ALPU-ORT)	C	From Leg	0.50 0.00 0.00	0.0000	80.00	No Ice	0.25	0.13	2.00
						1/2" Ice	0.31	0.19	4.34
						1" Ice	0.39	0.25	7.76
						2" Ice	0.56	0.39	18.59

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 lb
4'x2 3/8" Pipe Mount	A	None		0.0000	80.00	No Ice	0.87	0.87	14.60
						1/2" Ice	1.11	1.11	21.91
						1" Ice	1.36	1.36	32.07
						2" Ice	1.90	1.90	61.50
4'x2 3/8" Pipe Mount	B	None		0.0000	80.00	No Ice	0.87	0.87	14.60
						1/2" Ice	1.11	1.11	21.91
						1" Ice	1.36	1.36	32.07
						2" Ice	1.90	1.90	61.50
4'x2 3/8" Pipe Mount	C	None		0.0000	80.00	No Ice	0.87	0.87	14.60
						1/2" Ice	1.11	1.11	21.91
						1" Ice	1.36	1.36	32.07
						2" Ice	1.90	1.90	61.50
4'x2 3/8" Pipe Mount	B	None		0.0000	72.00	No Ice	0.87	0.87	14.60
						1/2" Ice	1.11	1.11	21.91
						1" Ice	1.36	1.36	32.07
						2" Ice	1.90	1.90	61.50
DragonWave Horizon Compact + ODU	B	None		0.0000	72.00	No Ice	0.69	0.32	10.00
						1/2" Ice	0.80	0.40	15.82
						1" Ice	0.91	0.48	23.28
						2" Ice	1.16	0.68	43.89

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight lb
14" dish	A	Paraboloid w/o Radome	From Leg	0.50 0.00 0.00	0.0000		115.00	1.50	No Ice 1/2" Ice 1" Ice 2" Ice	1.77 1.97 2.18 2.64	30.00 50.00 60.00 90.00
3' dish with radome	B	Paraboloid w/Radome	From Leg	0.50 0.00 0.00	0.0000		76.00	3.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.07 7.47 7.86 8.66	75.00 113.33 151.66 228.32
14" dish	B	Paraboloid w/o Radome	From Leg	0.50 0.00 0.00	0.0000		73.00	1.50	No Ice 1/2" Ice 1" Ice 2" Ice	1.77 1.97 2.18 2.64	30.00 50.00 60.00 90.00

Solution Summary

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	137 - 88.75	16.396	42	1.0140	0.0008
L2	92.75 - 47.75	7.719	48	0.7730	0.0002
L3	52 - 1	2.423	48	0.4332	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
137.00	PTP400	42	16.396	1.0140	0.0009	59508
136.00	AIR32 B66Aa/B2a	42	16.187	1.0093	0.0008	59508
115.00	14" dish	48	11.862	0.9073	0.0005	13524
105.00	(2) SBNHH-1D65A	48	9.920	0.8518	0.0004	9297
85.00	db Spectra DS7C09P36U-D	48	6.458	0.7157	0.0002	6373
80.00	PTP400	48	5.704	0.6760	0.0002	6165
76.00	3' dish with radome	48	5.135	0.6430	0.0002	6009
73.00	14" dish	48	4.730	0.6176	0.0002	5897
72.00	4'x2 3/8" Pipe Mount	48	4.599	0.6091	0.0002	5860

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	137 - 88.75	81.348	20	5.0304	0.0037
L2	92.75 - 47.75	38.305	20	3.8387	0.0011
L3	52 - 1	12.018	20	2.1502	0.0005

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
137.00	PTP400	20	81.348	5.0304	0.0042	12154
136.00	AIR32 B66Aa/B2a	20	80.310	5.0074	0.0041	12154
115.00	14" dish	20	58.870	4.5033	0.0025	2760
105.00	(2) SBNHH-1D65A	20	49.228	4.2288	0.0018	1895
85.00	db Spectra DS7C09P36U-D	20	32.046	3.5540	0.0010	1295
80.00	PTP400	20	28.302	3.3567	0.0009	1251
76.00	3' dish with radome	20	25.481	3.1926	0.0008	1219
73.00	14" dish	20	23.468	3.0666	0.0007	1195
72.00	4'x2 3/8" Pipe Mount	20	22.817	3.0241	0.0007	1187

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
L1	**137 - 88.75**	**Pole**	**TP30.22x23x0.1875**	**1**	**-11891.20**	**1024740.00**	**60.8**	**Pass**
L2	**88.75 - 47.75**	**Pole**	**TP36.36x29.2465x0.375**	**2**	**-21277.80**	**2458840.00**	**53.3**	**Pass**
L3	**47.75 - 1**	**Pole**	**TP43.36x34.9382x0.5**	**3**	**-37838.70**	**3979100.00**	**56.8**	**Pass**
							Summary	
						Pole (L1)	60.8	Pass
						Base Plate	59.8	Pass
						RATING =	**60.8**	**Pass**

==========

LPile for Windows, Version 2019-11.007

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method

==========

This copy of LPile is being used by:

JRM
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Files Used for Analysis

Path to file locations:
\Shared\CT office\APT Files\VZ NE - 141 All Sites (fka CT)\Bloomfield 3 CT\Bloomfield 3 CT - CT141_12570\Engineering\Resources\Structure\Tower SA\Caisson\

Name of input data file:
Bloomfield 3 CT.lp11d

Name of output report file:
Bloomfield 3 CT.lp11o

Name of plot output file:
Bloomfield 3 CT.lp11p

Name of runtime message file:
Bloomfield 3 CT.lp11r

Date and Time of Analysis

Date: January 25, 2022 Time: 13:15:15

Problem Title

Project Name: Bloomfield 3 CT

Job Number: CT141_12570

Client: Verizon

Engineer: JRM

Description: Caisson Analysis

Program Options and Settings

Computational Options:
- Conventional Analysis

Engineering Units Used for Data Input and Computations:
- US Customary System Units (pounds, feet, inches)

Analysis Control Options:

- Maximum number of iterations allowed	=	999
- Deflection tolerance for convergence	=	1.0000E-05 in
- Maximum allowable deflection	=	100.0000 in
- Number of pile increments	=	100

Loading Type and Number of Cycles of Loading:
- Static loading specified

- Use of p-y modification factors for p-y curves not selected
- Analysis uses layering correction (Method of Georgiadis)

- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Input of moment resistance at the pile tip not selected
- Input of side resistance moment along pile not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- Output files use decimal points to denote decimal symbols.
- Report only summary tables of pile-head deflection, maximum bending moment, and maximum shear force in output report file.
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 45.500 ft
Depth of ground surface below top of pile = 5.5000 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	72.0000
2	45.500	72.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile
Length of section = 45.500000 ft
Shaft Diameter = 72.000000 in
Shear capacity of section = 0.0000 lbs

Ground Slope and Pile Batter Angles

Ground Slope Angle	=	0.000 degrees
	=	0.000 radians
Pile Batter Angle	=	0.000 degrees
	=	0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 2 layers

Layer 1 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	5.500000 ft
Distance from top of pile to bottom of layer	=	10.500000 ft
Effective unit weight at top of layer	=	57.600000 pcf
Effective unit weight at bottom of layer	=	57.600000 pcf
Friction angle at top of layer	=	30.000000 deg.
Friction angle at bottom of layer	=	30.000000 deg.
Subgrade k at top of layer	=	60.000000 pci
Subgrade k at bottom of layer	=	60.000000 pci

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	10.500000 ft
Distance from top of pile to bottom of layer	=	75.000000 ft
Effective unit weight at top of layer	=	67.600000 pcf
Effective unit weight at bottom of layer	=	67.600000 pcf
Friction angle at top of layer	=	22.000000 deg.
Friction angle at bottom of layer	=	22.000000 deg.
Subgrade k at top of layer	=	60.000000 pci
Subgrade k at bottom of layer	=	60.000000 pci

(Depth of the lowest soil layer extends 29.500 ft below the pile tip)

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth ft	Effective Unit Wt. pcf	Angle of Friction deg.	kpy pci
1	Sand (Reese, et al.)	5.5000 10.5000	57.6000 57.6000	30.0000 30.0000	60.0000 60.0000
2	Sand (Reese, et al.)	10.5000 75.0000	67.6000 67.6000	22.0000 22.0000	60.0000 60.0000

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 2

Load No.	Load Compute Top y vs. Pile Length Type	Condition 1 Run Analysis	Condition 2	Axial Thrust Force, lbs
1	1	V = 28039. lbs	M = 29707200. in-lbs	37855.
	Yes	Yes		
2	1	V = 5689. lbs	M = 5993064. in-lbs	31546.
	Yes	Yes		

V = shear force applied normal to pile axis
M = bending moment applied to pile head
y = lateral deflection normal to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applied to pile head
Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
Thrust force is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

---

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section	=	45.500000 ft
Shaft Diameter	=	72.000000 in
Concrete Cover Thickness (to edge of long. rebar)	=	4.000000 in
Number of Reinforcing Bars	=	20 bars
Yield Stress of Reinforcing Bars	=	60000. psi
Modulus of Elasticity of Reinforcing Bars	=	29000000. psi
Gross Area of Shaft	=	4072. sq. in.
Total Area of Reinforcing Steel	=	31.200000 sq. in.
Area Ratio of Steel Reinforcement	=	0.77 percent
Edge-to-Edge Bar Spacing	=	8.381233 in
Maximum Concrete Aggregate Size	=	0.750000 in
Ratio of Bar Spacing to Aggregate Size	=	11.17
Offset of Center of Rebar Cage from Center of Pile	=	0.0000 in

Axial Structural Capacities:

Nom. Axial Structural Capacity = 0.85 Fc Ac + Fy As	=	12174.775 kips
Tensile Load for Cracking of Concrete	=	-1567.598 kips
Nominal Axial Tensile Capacity	=	-1872.000 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.410000	1.560000	31.295000	0.00000
2	1.410000	1.560000	29.763314	9.670687
3	1.410000	1.560000	25.318187	18.394739
4	1.410000	1.560000	18.394739	25.318187
5	1.410000	1.560000	9.670687	29.763314
6	1.410000	1.560000	0.00000	31.295000
7	1.410000	1.560000	-9.670687	29.763314
8	1.410000	1.560000	-18.394739	25.318187
9	1.410000	1.560000	-25.318187	18.394739
10	1.410000	1.560000	-29.763314	9.670687
11	1.410000	1.560000	-31.295000	0.00000
12	1.410000	1.560000	-29.763314	-9.670687
13	1.410000	1.560000	-25.318187	-18.394739
14	1.410000	1.560000	-18.394739	-25.318187
15	1.410000	1.560000	-9.670687	-29.763314

16	1.410000	1.560000	0.00000	-31.295000
17	1.410000	1.560000	9.670687	-29.763314
18	1.410000	1.560000	18.394739	-25.318187
19	1.410000	1.560000	25.318187	-18.394739
20	1.410000	1.560000	29.763314	-9.670687

NOTE: The positions of the above rebars were computed by LPile

Minimum spacing between any two bars not equal to zero = 8.381 inches
between bars 17 and 18.

Ratio of bar spacing to maximum aggregate size = 11.17

Concrete Properties:

Compressive Strength of Concrete	=	3000. psi
Modulus of Elasticity of Concrete	=	3122019. psi
Modulus of Rupture of Concrete	=	-410.791918 psi
Compression Strain at Peak Stress	=	0.001634
Tensile Strain at Fracture of Concrete	=	-0.0001160
Maximum Coarse Aggregate Size	=	0.750000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 2

Number	Axial Thrust Force kips
1	31.546
2	37.855

Summary of Results for Nominal Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003
or maximum developed moment if pile fails at smaller strains.

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	31.546	54602.069	0.00300000
2	37.855	54755.660	0.00300000

Note that the values of moment capacity in the table above are not
factored by a strength reduction factor (phi-factor).

In ACI 318, the value of the strength reduction factor depends on whether the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.75).

The above values should be multiplied by the appropriate strength reduction factor to compute ultimate moment capacity according to ACI 318, or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding bending stiffnesses computed for common resistance factor values used for reinforced concrete sections.

Axial Load No.	Resist. Factor	Nominal Ax. Thrust kips	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in^2
1	0.65	31.546000	54602.	20.504900	35491.	941968378.
2	0.65	37.855000	54756.	24.605750	35591.	945004975.
1	0.75	31.546000	54602.	23.659500	40952.	919103253.
2	0.75	37.855000	54756.	28.391250	41067.	922082277.
1	0.90	31.546000	54602.	28.391400	49142.	649116739.
2	0.90	37.855000	54756.	34.069500	49280.	651886695.

Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	5.5000	0.00	N.A.	No	0.00	38470.
2	10.5000	6.3949	Yes	No	38470.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only

for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

Pile-head Deflection vs. Pile Length for Load Case 1

Boundary Condition Type 1, Shear and Moment

Shear = 28039. lbs
Moment = 29707200. in-lbs
Axial Load = 37855. lbs

Pile Length feet	Pile Head Deflection inches	Maximum Moment ln-lbs	Maximum Shear lbs
45.50000	1.76235337	32774800.	-129040.
43.22500	1.83910038	32765052.	-137731.
40.95000	2.00503000	32748254.	-149744.
38.67500	2.31244385	32723931.	-164056.
36.40000	2.95070986	32683000.	-181143.
34.12500	4.10389163	32627309.	-199554.
31.85000	6.56466617	32649485.	-222299.

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 5689.0 lbs
Applied moment at pile head = 5993064.0 in-lbs
Axial thrust load on pile head = 31546.0 lbs

Depth X feet	Deflect. y inches	Bending Moment in-lbs	Shear Force lbs	Slope S radians	Total Stress psi*	Bending Stiffness lb-in^2	Soil Res. Es*H lb/inch	Soil Spr. Lat. Load lb/inch	Distrib. p lb/inch
0.00	0.08837	5993064.	5689.	-4.62E-04	0.00	5.19E+12			

0.00 0.00 0.00

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 2:

```
Pile-head deflection             =     0.08837363 inches
Computed slope at pile head      =    -0.00046204 radians
Maximum bending moment           =       6606647. inch-lbs
Maximum shear force              =        -24663. lbs
Depth of maximum bending moment  =    10.92000000 feet below pile head
Depth of maximum shear force     =    28.66500000 feet below pile head
Number of iterations             =              6
Number of zero deflection points =              1
```

Pile-head Deflection vs. Pile Length for Load Case 2

Boundary Condition Type 1, Shear and Moment

```
Shear      =           5689. lbs
Moment     =        5993064. in-lbs
Axial Load =          31546. lbs
```

Pile Length feet	Pile Head Deflection inches	Maximum Moment ln-lbs	Maximum Shear lbs
45.50000	0.08837363	6606647.	-24663.
43.22500	0.09193220	6599712.	-26351.
40.95000	0.09913846	6588335.	-28458.
38.67500	0.11052188	6574891.	-30812.
36.40000	0.12776541	6559010.	-33390.
34.12500	0.15252715	6541685.	-36349.
31.85000	0.18765982	6524688.	-39808.
29.57500	0.23931233	6511586.	-43868.
27.30000	0.33542954	6506754.	-49154.
25.02500	0.62581598	6500800.	-57361.
22.75000	1.53226844	6501152.	-67429.
20.47500	5.02556057	6538303.	-79890.

Summary of Pile-head Responses for Conventional Analyses

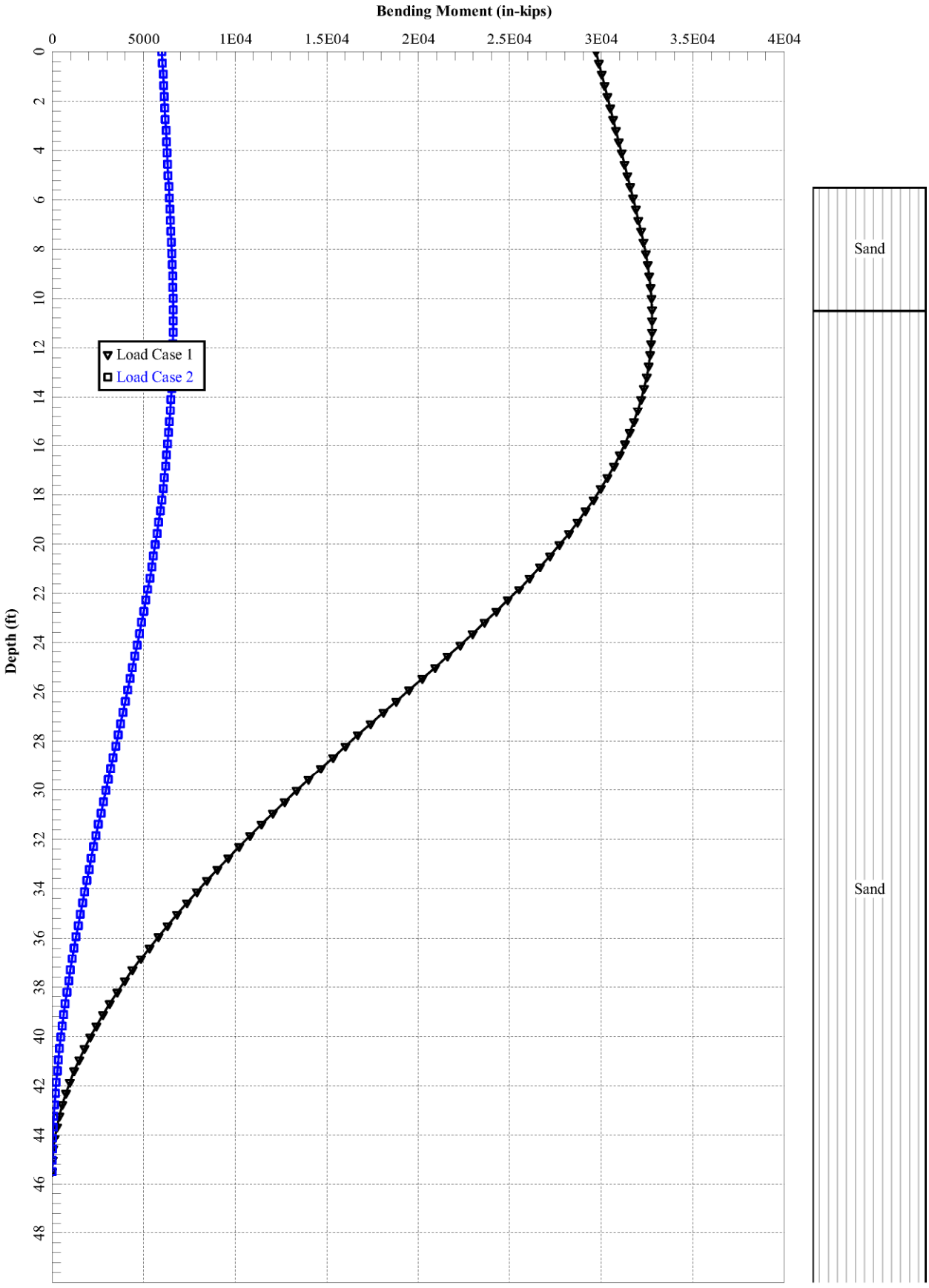
Definitions of Pile-head Loading Conditions:

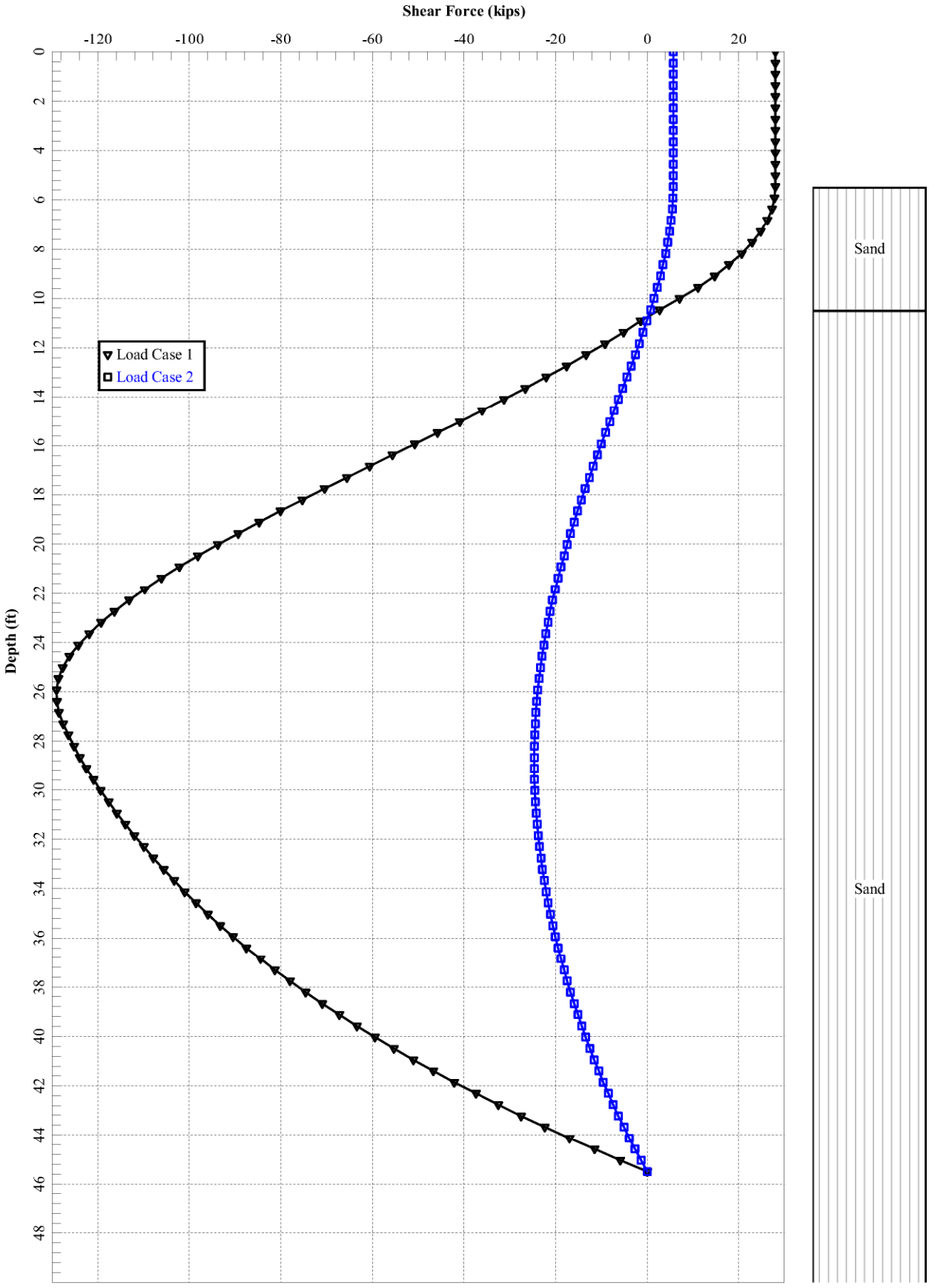
Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians

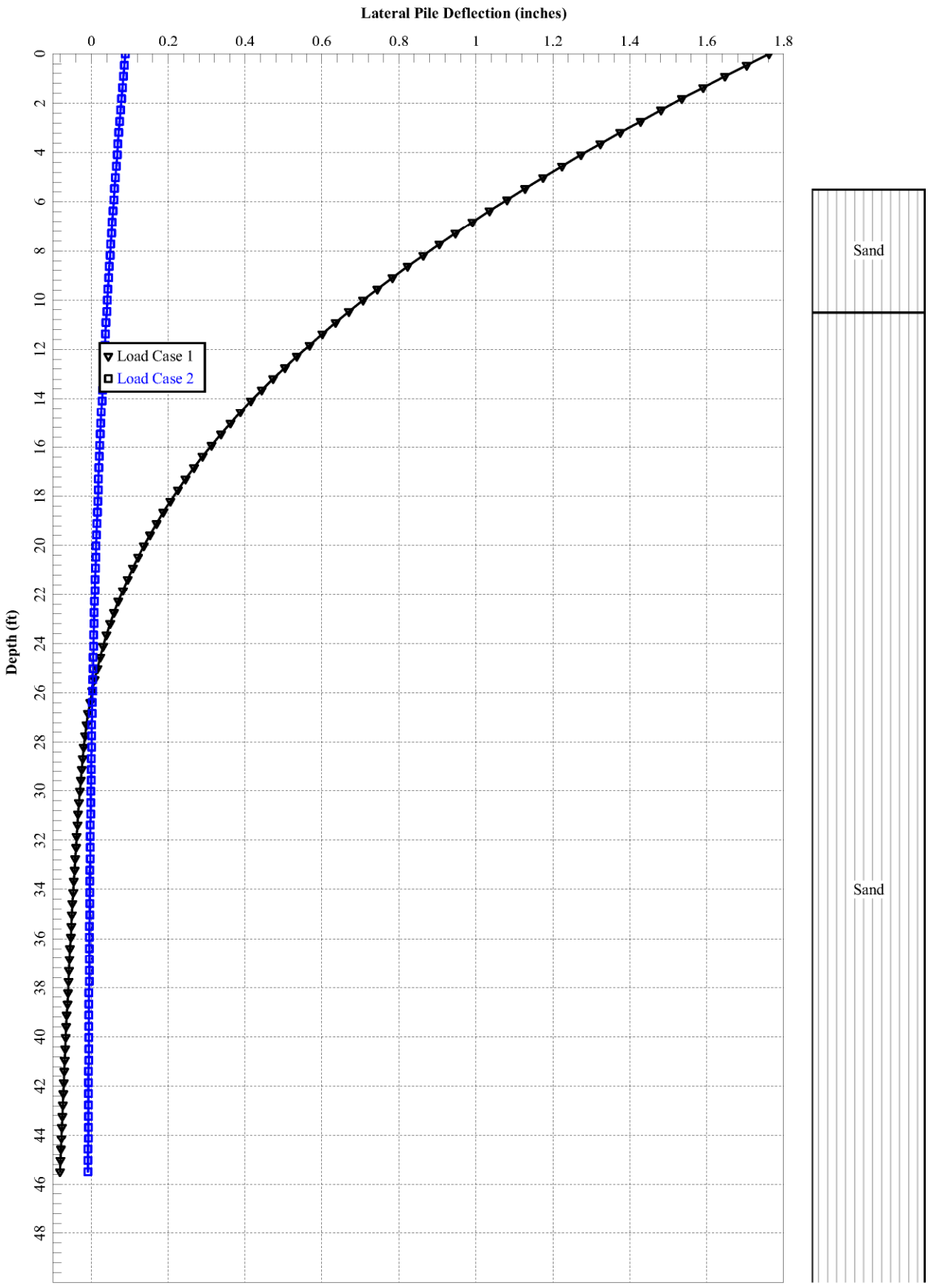
Load Case No.	Load Type	Load 1	Load 2	Load Type	Pile-head Load 1	Pile-head Load 2	Axial Loading lbs	Pile-head Deflection inches	Pile-head Rotation radians	Max Shear in Pile lbs	Max Moment in Pile in-lbs
1	V, lb	28039.	M, in-lb	2.97E+07			37855.	1.7624	-0.01074	-129040.	3.28E+07
2	V, lb	5689.	M, in-lb	5993064.			31546.	0.08837	-4.62E-04	-24663.	6606647.

Maximum pile-head deflection = 1.7623533750 inches
Maximum pile-head rotation = -0.0107350961 radians = -0.615076 deg.

The analysis ended normally.


Bending Moment (in-kips)
0
5000
1E04
1.5E04
2E04
2.5E04
3E04
3.5E04
4E04
Depth (ft)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
Load Case 1
Load Case 2
Sand
Sand


Shear Force (kips)
-120
-100
-80
-60
-40
-20
0
20
Depth (ft)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
Load Case 1
Load Case 2
Sand
Sand


Lateral Pile Deflection (inches)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
Depth (ft)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
Load Case 1
Load Case 2
Sand
Sand

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Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10115591
Maser Consulting Connecticut Project #: 21777224A

November 16, 2021

Site Information	*Site ID:*	*468782-VZW / BLOOMFIELD 3 CT*
	Site Name:	*BLOOMFIELD 3 CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*785 NEW PARK AVE* *BLOOMFIELD, Connecticut 06002* *Hartford County*
	Latitude:	*41.828486°*
	Longitude:	*-72.733233°*
Structure Information	*Tower Type:*	*137-Ft Monopole*
	Mount Type:	*14.00-Ft Platform*

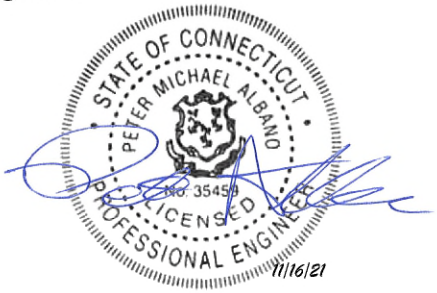
FUZE ID # 16272375

Analysis Results

Platform: **48.4% 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
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Andy Hanes



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 674845, dated July 30, 2021*
Construction Drawings	*All-Points, Site Name: BLOOMFIELD 3 CT, dated August 6, 2021*
Mount Mapping Report	*RKS Design & Engineering, LLC, Site ID: VZW:468782, dated October 24, 2021*
Previous Mount Analysis	*Maser Consulting Connecticut, Project #: 21777224A, dated November 3, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut, Project #: 21777224A, dated November 16, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	116 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.996
Seismic Parameters:	S_S:	0.181 g
	S_1:	0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
105.00	105.00	3	Samsung	MT6407-77A	Added
		2	RFS	DB-B1-6C-12AB-0Z	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Amphenol	BXA-80063-4BF-EDIN-0	Retained
		1	Amphenol Antel	BXA-80080-4CF-EDIN-0	
		1	Amphenol Antel	BXA-80080-6CF-EDIN-2	
		6	Andrew	SBNHH-1D65B	

Any proposed antennas note 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.

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

Model Number	Ports	AKA
RC3DC-4750-PF-48	6	OVP-6
RHSDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation and field observations. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Connection Check	33.2 %	Pass
Platform Angle	45.4 %	Pass
Back Standoff HSS	24.7 %	Pass
Front Standoff HSS	16.8 %	Pass
Mount Pipe	48.4 %	Pass
MOD Support Rail	10.2 %	Pass
MOD Corner Angle	16.5 %	Pass
MOD Kicker	10.1 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**48.4%**

Recommendation:

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

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

Attachments:

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


10/24/2021

V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

Tower Owner:	UNKNOWN	**Mapping Date:**	10/24/2021
Site Name:	VZW: Bloomfield 3 CT	**Tower Type:**	Monopole
Site Number or ID:	VZW: 468782	**Tower Height (Ft.):**	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	**Mount Elevation (Ft.):**	104

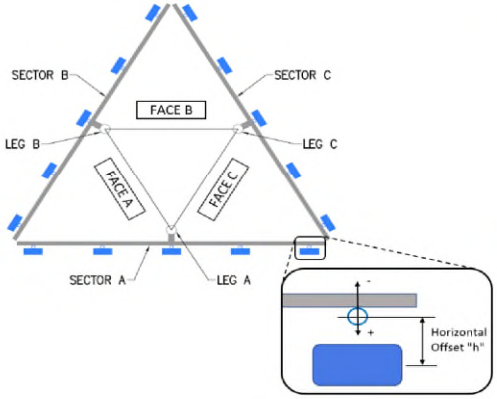
Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

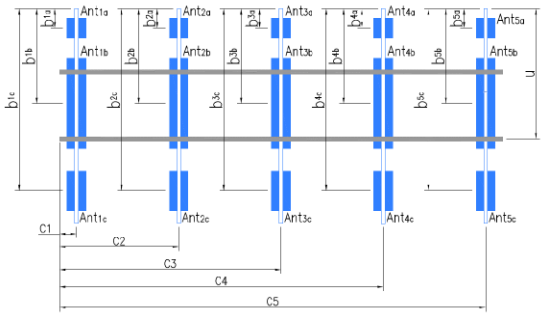
Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	20.25	C1	PIPE 2.875"Ø X 0.15" X 72" LONG	34.50	20.25
A2	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	43.50	C2	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	43.50
A3	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	89.25	C3	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	89.25
A4	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	134.25	C4	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	134.25
A5				C5			
A6				C6			
B1	PIPE 2.875"Ø X 0.15" X 72" LONG	34.50	20.25	D1			
B2	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	43.50	D2			
B3	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	89.25	D3			
B4	PIPE 2.375"Ø X 0.15" X 72" LONG	34.50	134.25	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. :	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	4.75
Please enter additional infomation or comments below.	

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	27.75
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.			





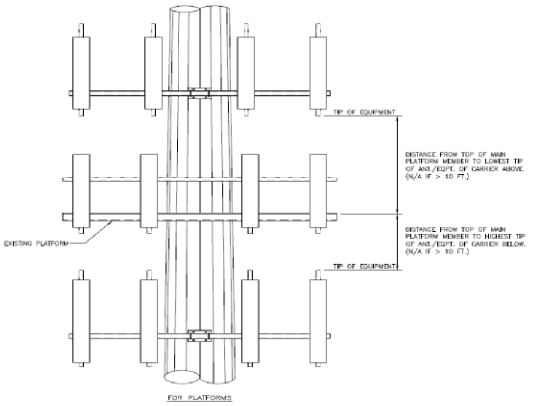
Antenna Layout (Looking Out From Tower)

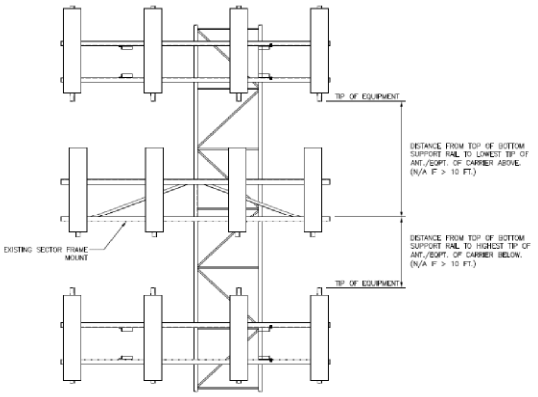
Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}										
Ant_{1b}	BXA-80080-6CF-EDIN-	8.00	6.00	71.00		103.583	39.50	10.00	0.00	141
Ant_{1c}										
Ant_{2a}	B4 RRH2X60-4R	10.50	5.75	36.50		105.167	20.50	-7.00		141
Ant_{2b}	UNKNOWN PANEL	12.00	7.50	73.50		104.167	32.50	10.50	0.00	141
Ant_{2c}										
Ant_{3a}	3JR53386AAAL 3	12.00	7.50	21.00		104.625	27.00	-5.00		142
Ant_{3b}	BXA-70063-6CF-EDIN-	11.00	5.00	71.00		103.917	35.50	8.00	0.00	142
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN PANEL	12.00	7.50	73.50		104.167	32.50	10.50	0.00	143
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff	RRFDC-3315-PF-48	16.00	10.50	26.00						142
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector		
Sector A:	0.00	Deg	Leg A:		Deg
Sector B:	120.00	Deg	Leg B:		Deg
Sector C:	240.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

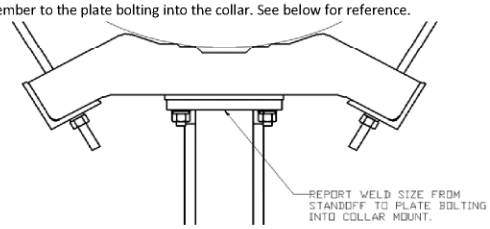
Climbing Facility Information			
Location:	240.00	Deg	Sector C
Climbing Facility	Corrosion Type:		N/A
	Access:		Climbing path was unobstructed.
	Condition:		Good condition.

Please insert a photo of the mount centerline measurement here.





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



Sector B										
Ant_{1a}										
Ant_{1b}	BXA-80063-4BF-EDIN	11.00	5.50	45.00		104.042	34.00	9.00	120.00	145
Ant_{1c}										
Ant_{2a}	B4 RRH2X60-4R	10.50	5.75	36.50		105.167	20.50	-7.00		145
Ant_{2b}	UNKNOWN PANEL	12.00	7.50	73.50		104.167	32.50	10.50	120.00	145
Ant_{2c}										
Ant_{3a}	3JR53386AAAL 3	12.00	7.50	21.00		104.625	27.00	-5.00		146
Ant_{3b}	SLCP 2X6014	14.00	11.00	53.00		104.208	32.00	10.00	120.00	146
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN PANEL	12.00	7.50	73.50		104.167	32.50	10.50	120.00	147
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	BXA-80080-4CF-EDIN	8.00	6.00	47.50		104.042	34.00	9.00	280.00	149
Ant_{1c}										
Ant_{2a}	B4 RRH2X60-4R	10.50	5.75	36.50		105.167	20.50	-7.00		149
Ant_{2b}	UNKNOWN PANEL	12.00	7.50	73.50		104.167	32.50	10.50	280.00	149
Ant_{2c}										
Ant_{3a}	3JR53386AAAL 3	12.00	7.50	21.00		104.625	27.00	-5.00		150
Ant_{3b}	SLCP 2X6014	14.00	11.00	53.00		104.208	32.00	10.00	280.00	150
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	UNKNOWN PANEL	12.00	7.50	73.50		104.167	32.50	10.50	280.00	152
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector D										
Ant_{1a}										
Ant_{1b}										
Ant_{1c}										
Ant_{2a}										
Ant_{2b}										
Ant_{2c}										
Ant_{3a}										
Ant_{3b}										
Ant_{3c}										
Ant_{4a}										
Ant_{4b}										
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	COAX TOTAL (13): (12) FH 1-5/8, (1) 1.5"Ø HYB	
2	BOLT MISSING ON MOUNT	91
3		
4		
5		
6		
7		
8		

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

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

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

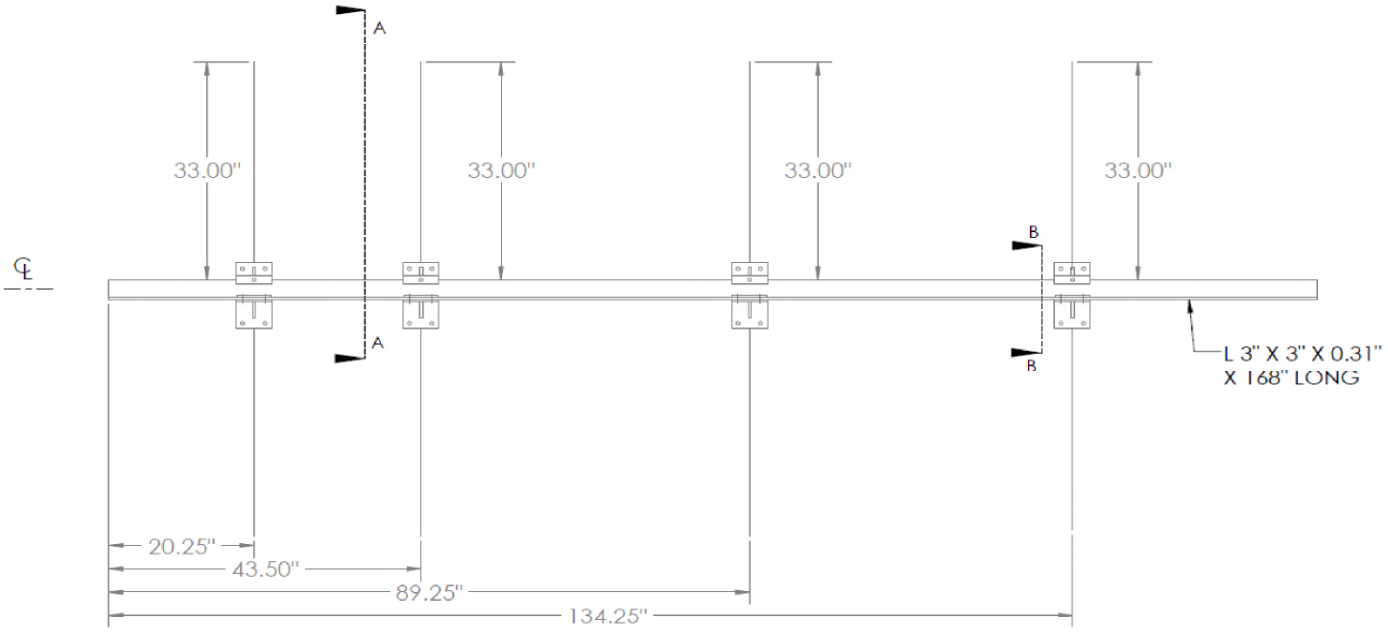
V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

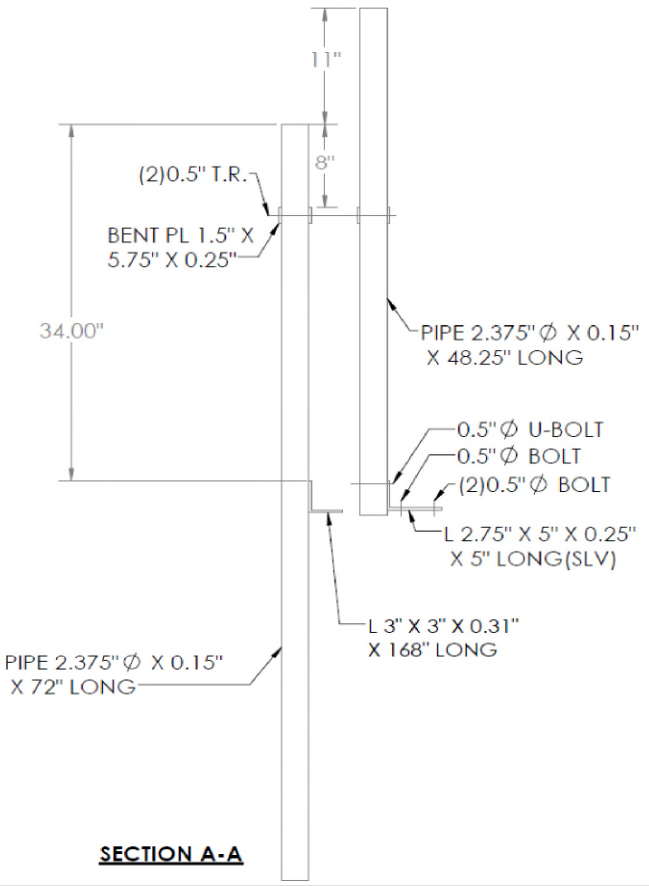
FCC #
UNKNOWN

Tower Owner:	UNKNOWN	**Mapping Date:**	10/24/2021
Site Name:	VZW: Bloomfield 3 CT	**Tower Type:**	Monopole
Site Number or ID:	VZW: 468782	**Tower Height (Ft.):**	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	**Mount Elevation (Ft.):**	104

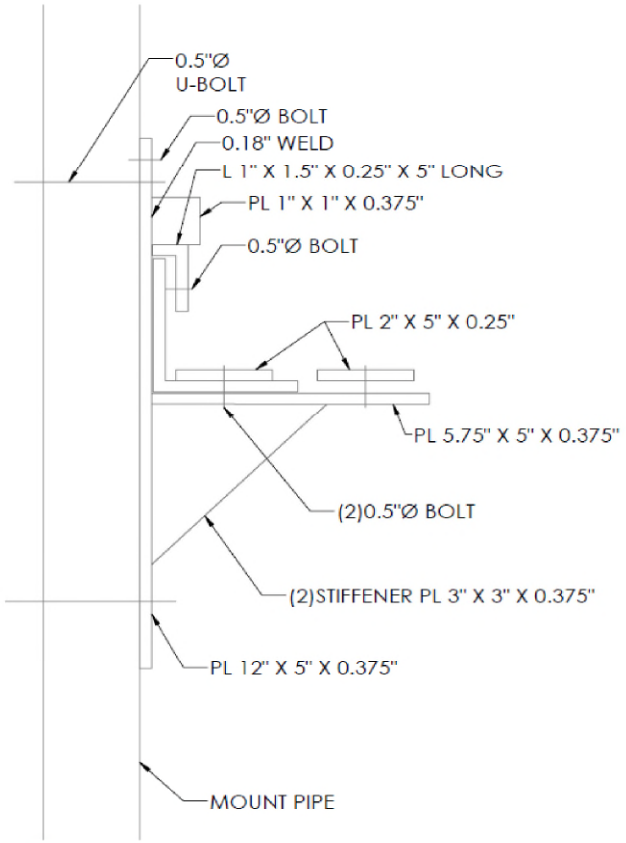
Please Insert Sketches of the Antenna Mount



SECTOR A,B & C

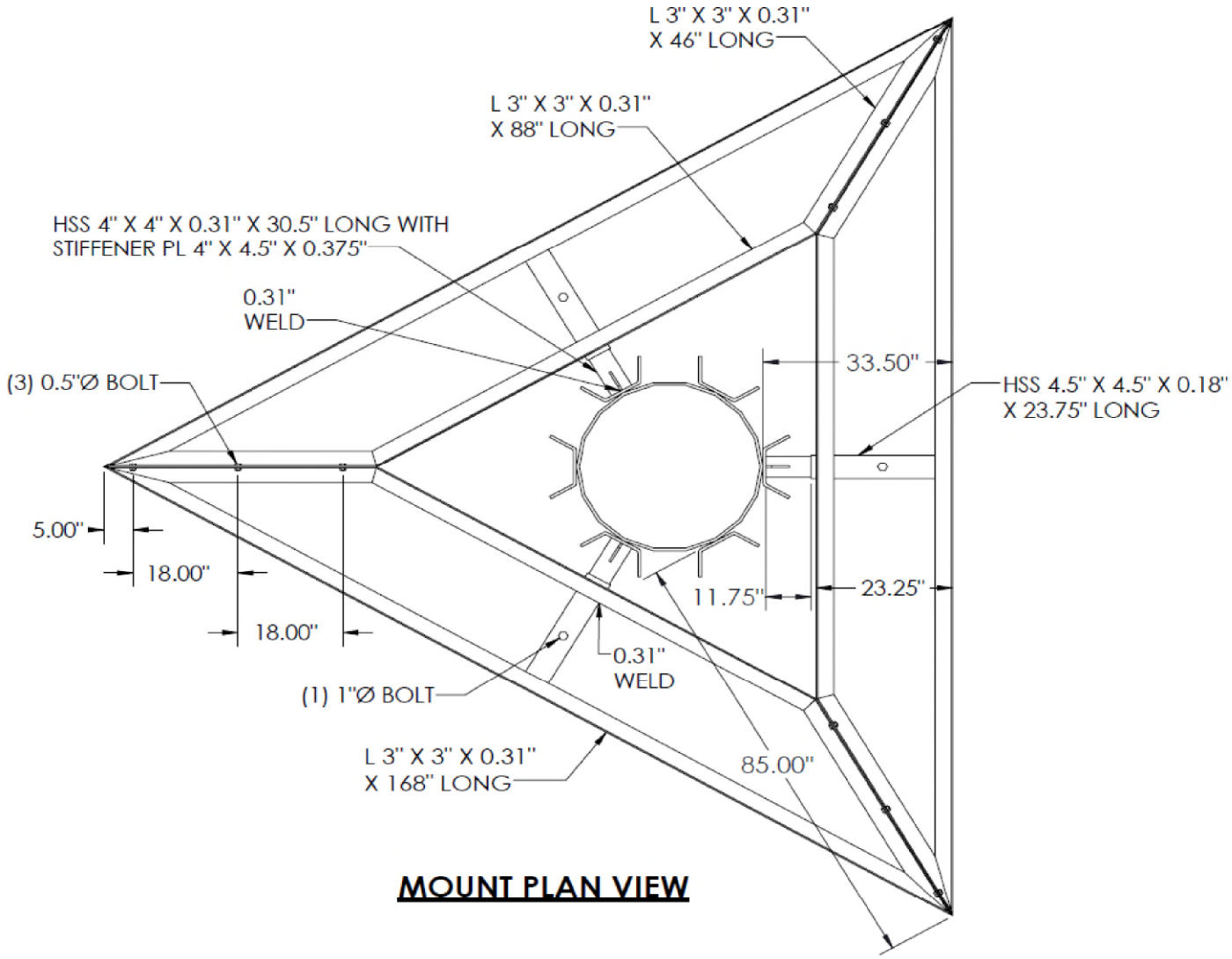


SECTION A-A



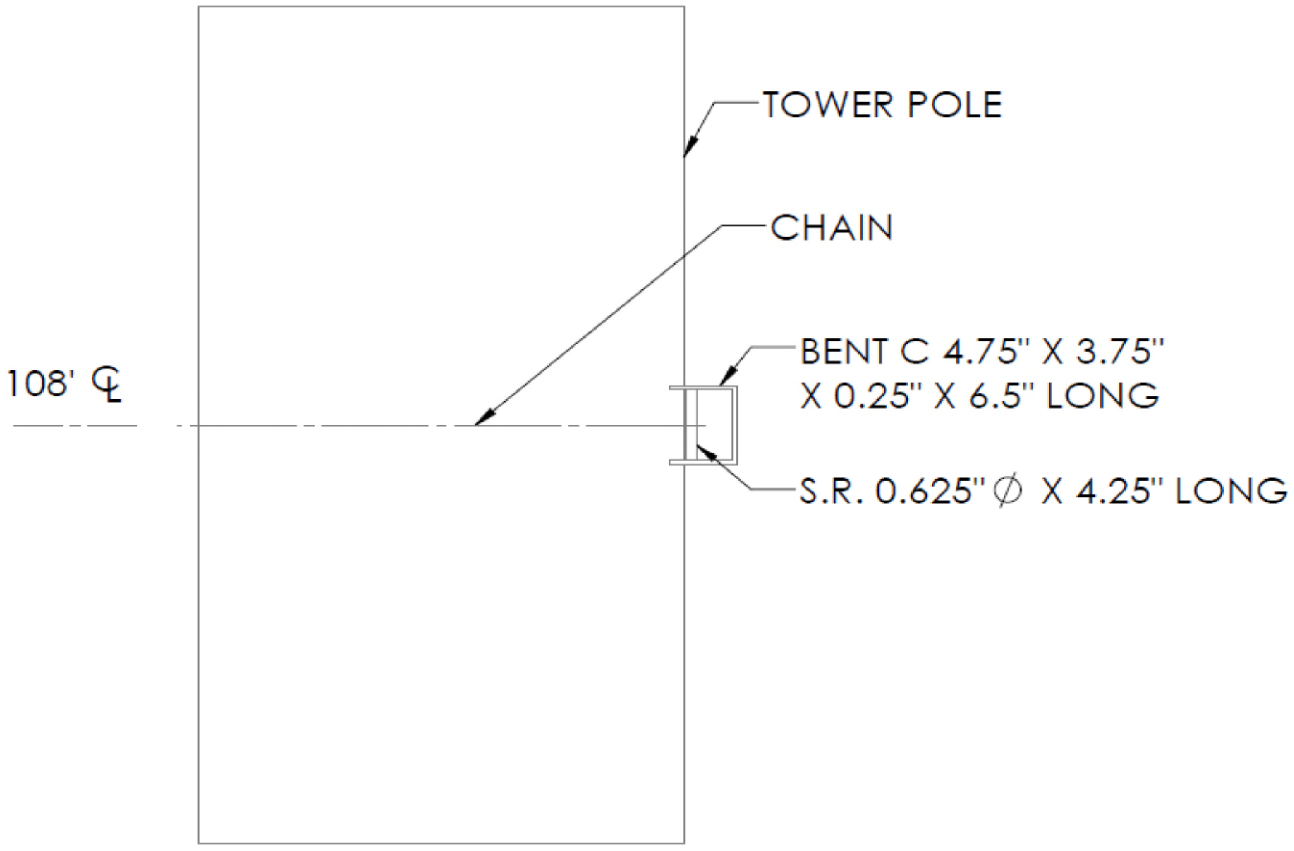
SECTION B-B

Please Insert Sketches of the Antenna Mount, cont'd



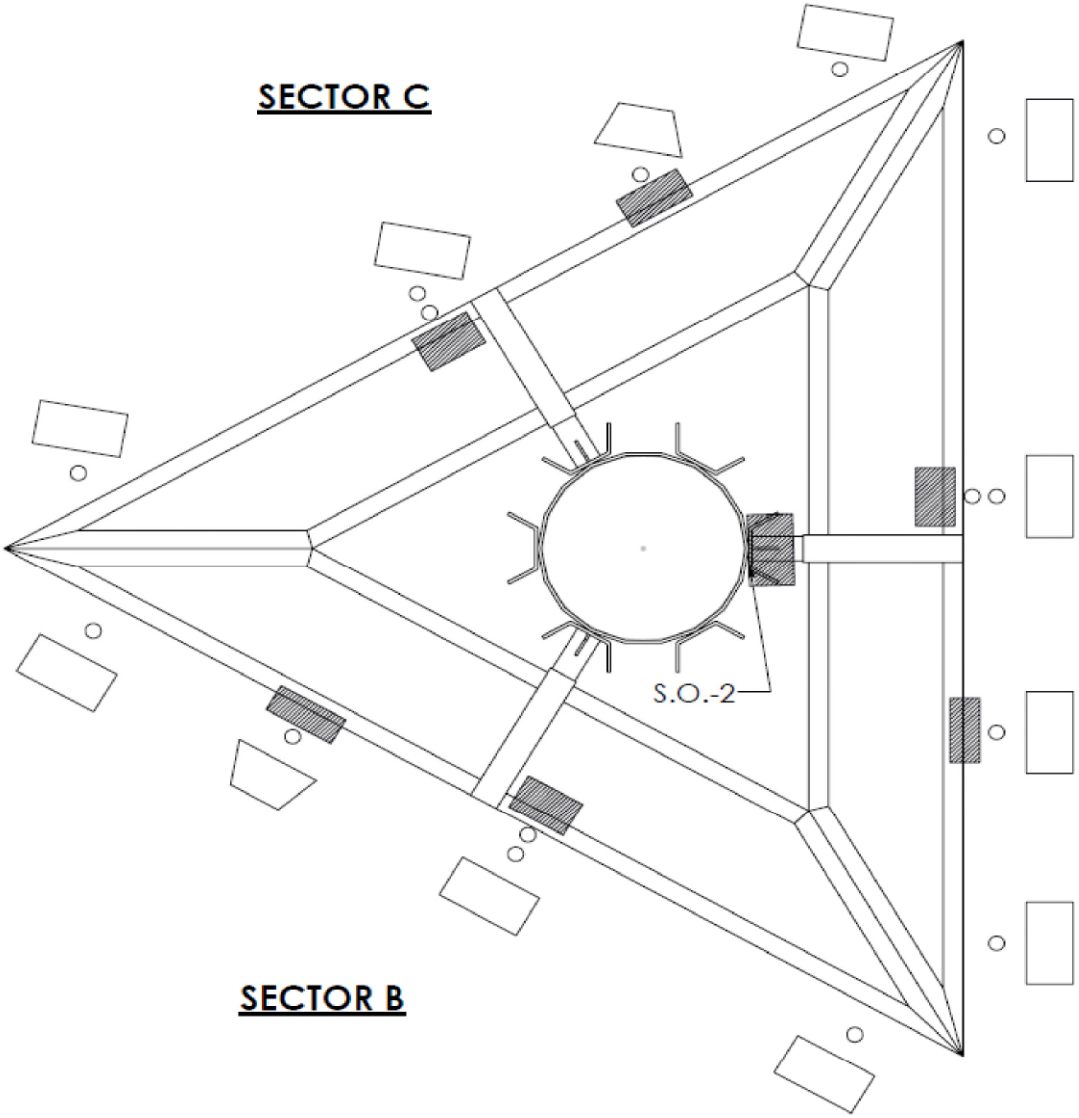
MOUNT PLAN VIEW

Please Insert Sketches of the Antenna Mount, cont'd



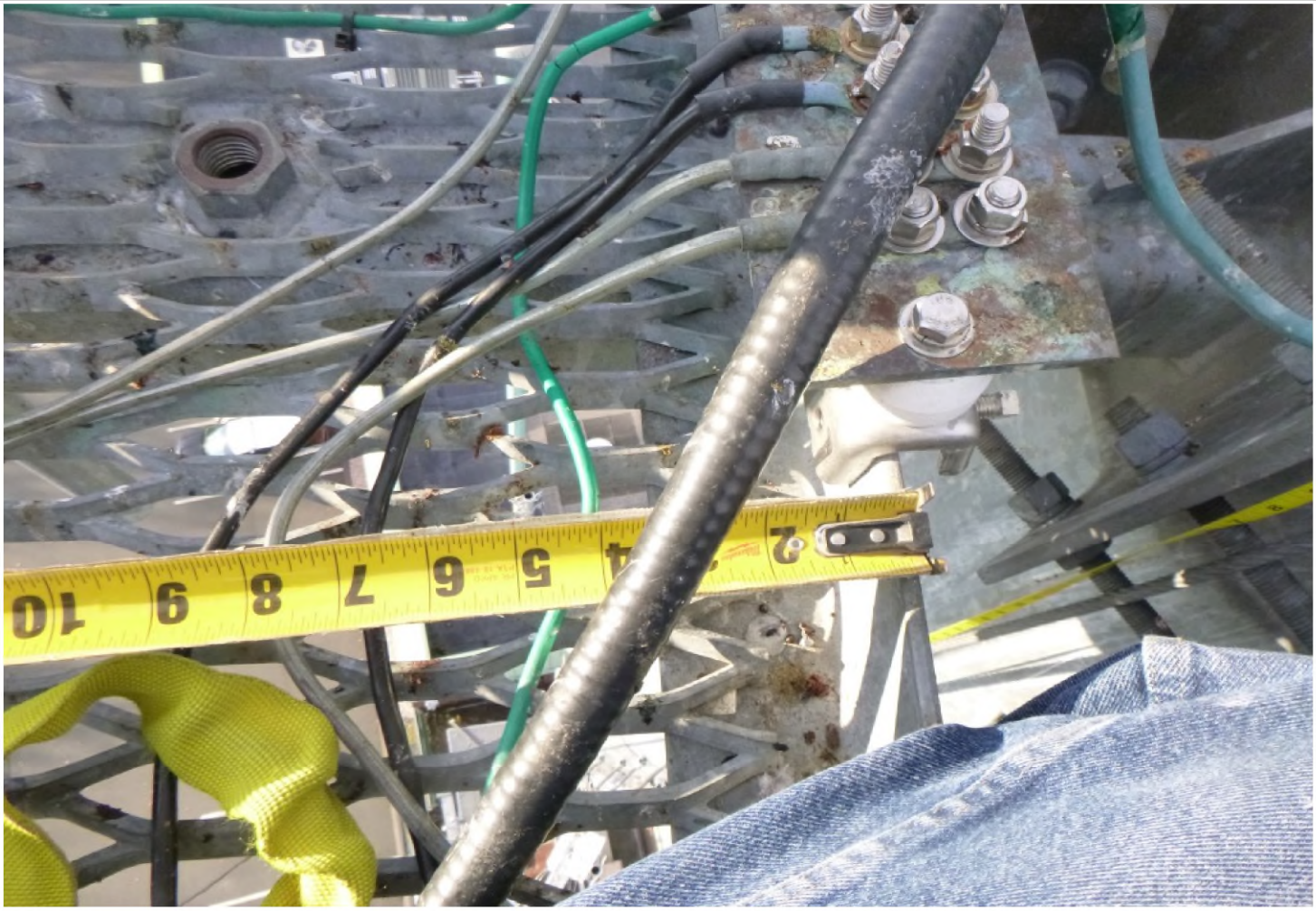
S.O.-2

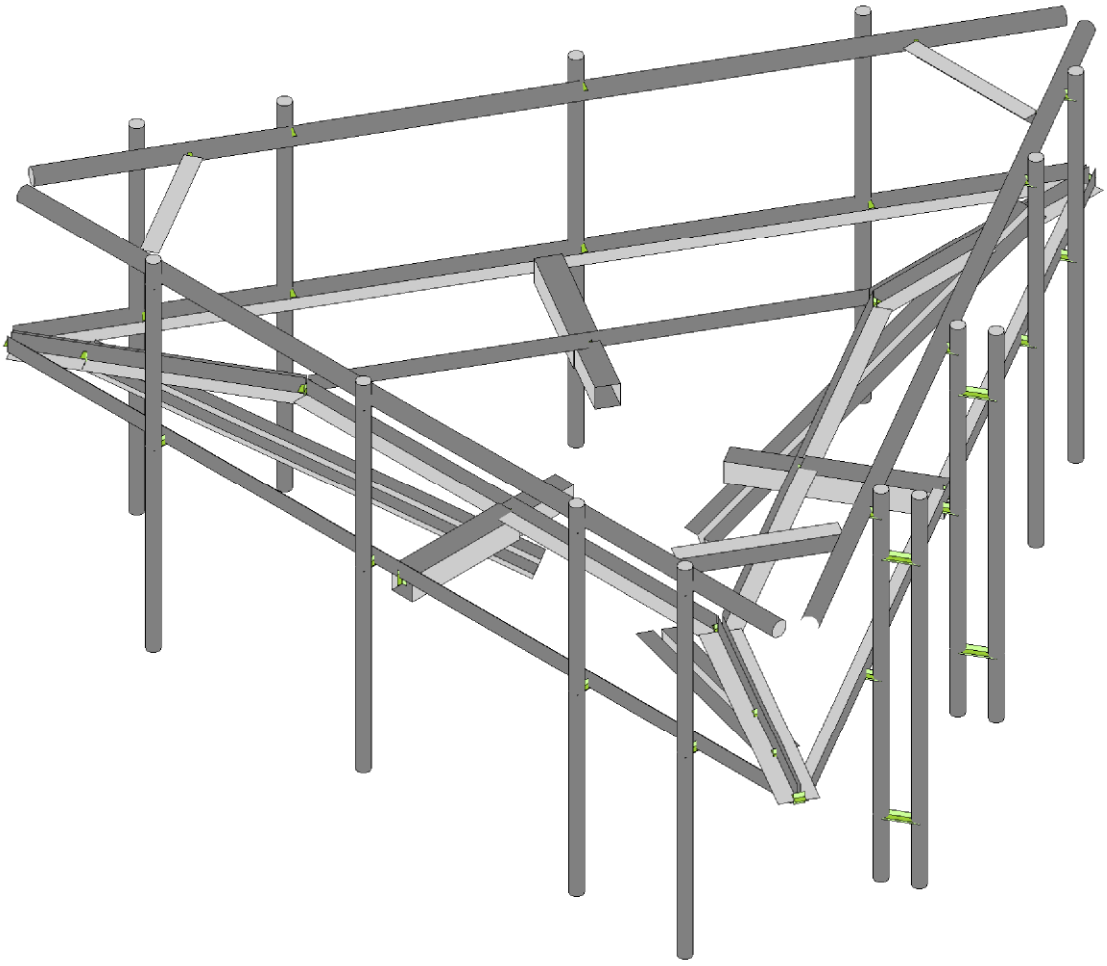
Please Insert Sketches of the Antenna Mount, cont'd



ANTENNA PLAN VIEW

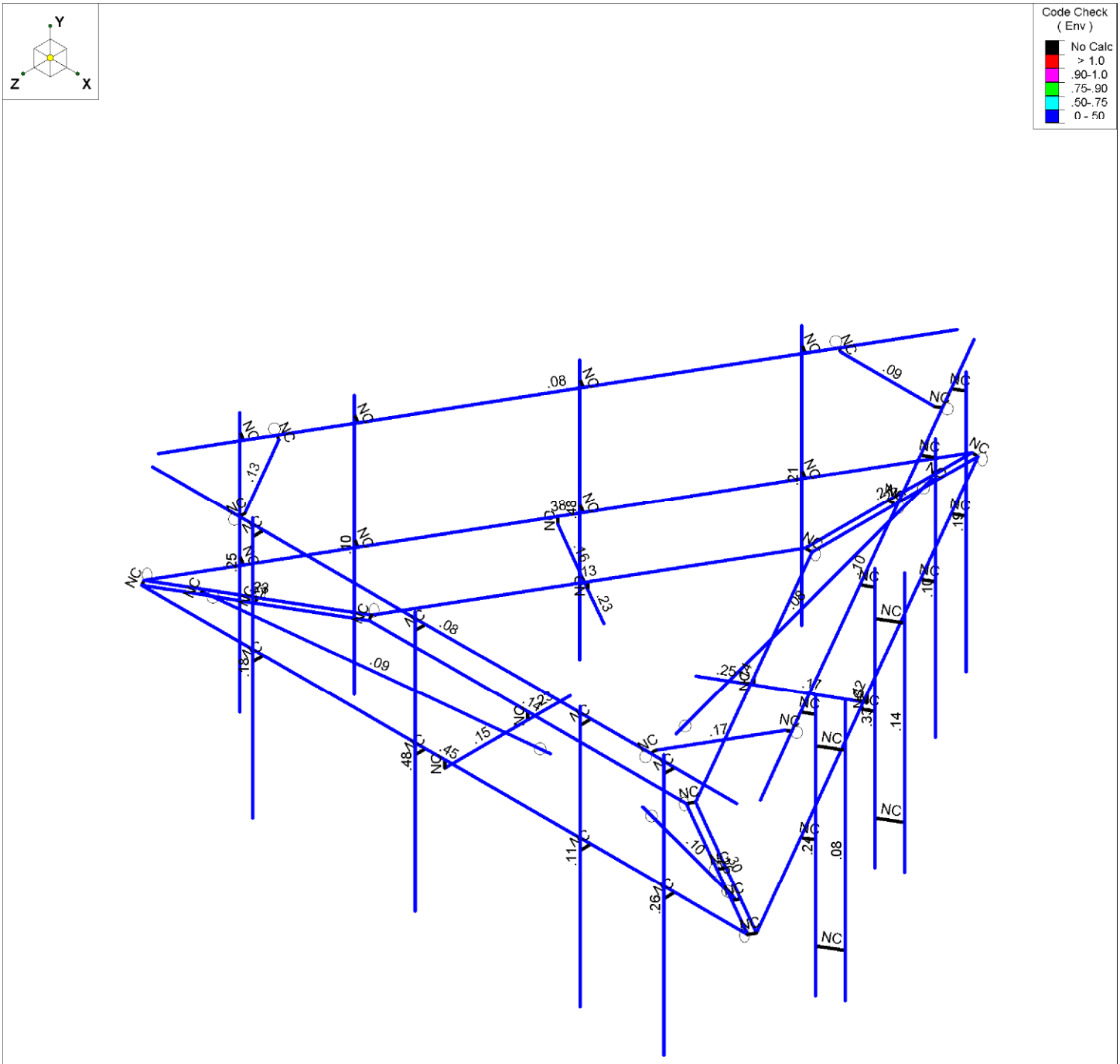
Please Insert Sketches of the Antenna Mount, cont'd





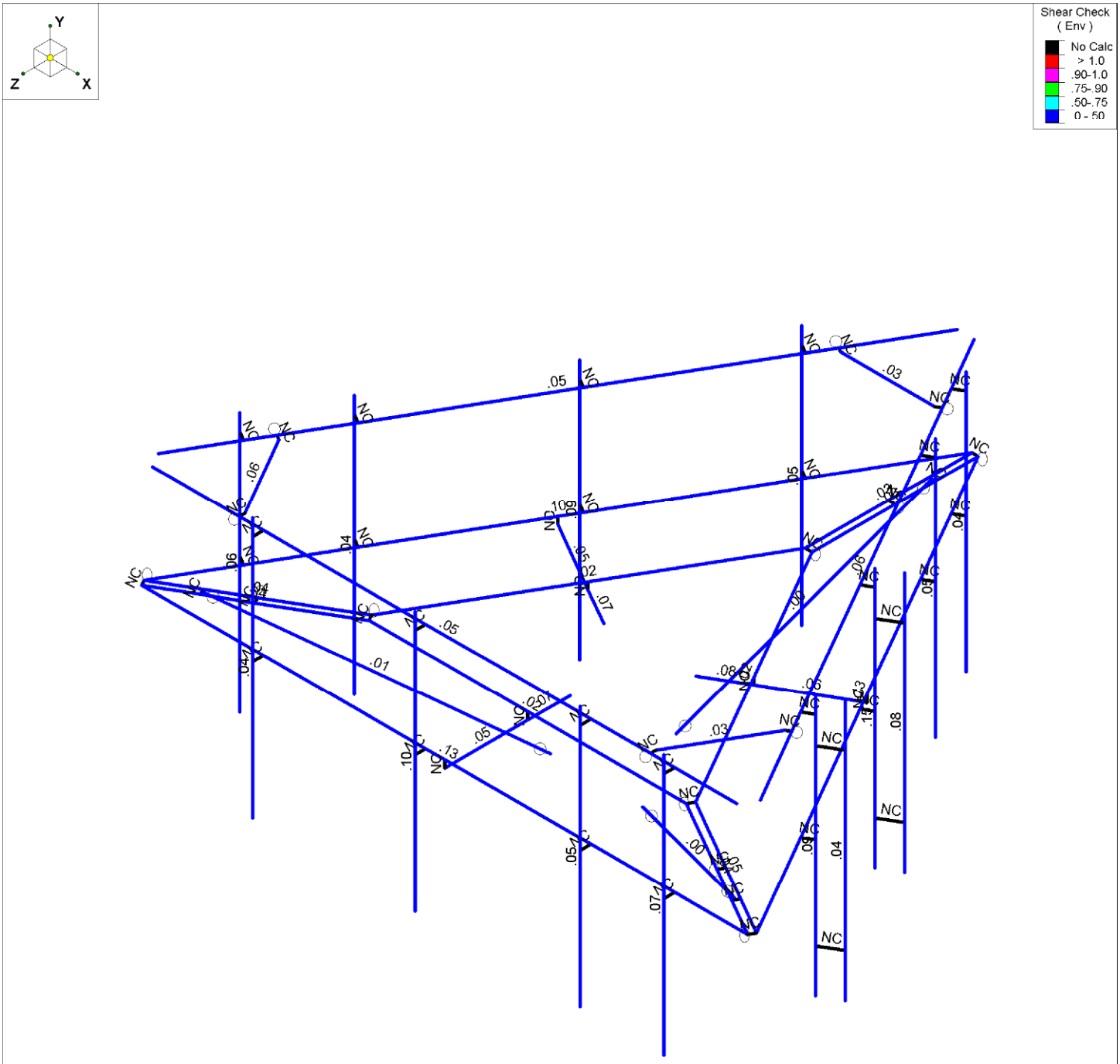
Envelope Only Solution

		SK - 1
		Nov 12, 2021 at 10:15 AM
		468782-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 2
		Nov 12, 2021 at 10:15 AM
		468782-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 3
		Nov 12, 2021 at 10:15 AM
		468782-VZW_MT_LO_H.r3d

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					96			
2	Antenna Di	None					96			
3	Antenna Wo (0 Deg)	None					96			
4	Antenna Wo (30 Deg)	None					96			
5	Antenna Wo (60 Deg)	None					96			
6	Antenna Wo (90 Deg)	None					96			
7	Antenna Wo (120 Deg)	None					96			
8	Antenna Wo (150 Deg)	None					96			
9	Antenna Wo (180 Deg)	None					96			
10	Antenna Wo (210 Deg)	None					96			
11	Antenna Wo (240 Deg)	None					96			
12	Antenna Wo (270 Deg)	None					96			
13	Antenna Wo (300 Deg)	None					96			
14	Antenna Wo (330 Deg)	None					96			
15	Antenna Wi (0 Deg)	None					96			
16	Antenna Wi (30 Deg)	None					96			
17	Antenna Wi (60 Deg)	None					96			
18	Antenna Wi (90 Deg)	None					96			
19	Antenna Wi (120 Deg)	None					96			
20	Antenna Wi (150 Deg)	None					96			
21	Antenna Wi (180 Deg)	None					96			
22	Antenna Wi (210 Deg)	None					96			
23	Antenna Wi (240 Deg)	None					96			
24	Antenna Wi (270 Deg)	None					96			
25	Antenna Wi (300 Deg)	None					96			
26	Antenna Wi (330 Deg)	None					96			
27	Antenna Wm (0 Deg)	None					96			
28	Antenna Wm (30 Deg)	None					96			
29	Antenna Wm (60 Deg)	None					96			
30	Antenna Wm (90 Deg)	None					96			
31	Antenna Wm (120 Deg)	None					96			
32	Antenna Wm (150 Deg)	None					96			
33	Antenna Wm (180 Deg)	None					96			
34	Antenna Wm (210 Deg)	None					96			
35	Antenna Wm (240 Deg)	None					96			
36	Antenna Wm (270 Deg)	None					96			
37	Antenna Wm (300 Deg)	None					96			
38	Antenna Wm (330 Deg)	None					96			
39	Structure D	None		-1					3	
40	Structure Di	None						41	3	
41	Structure Wo (0 Deg)	None						82		
42	Structure Wo (30 Deg)	None						82		
43	Structure Wo (60 Deg)	None						82		
44	Structure Wo (90 Deg)	None						82		
45	Structure Wo (120 D...	None						82		
46	Structure Wo (150 D...	None						82		
47	Structure Wo (180 D...	None						82		
48	Structure Wo (210 D...	None						82		
49	Structure Wo (240 D...	None						82		
50	Structure Wo (270 D...	None						82		
51	Structure Wo (300 D...	None						82		
52	Structure Wo (330 D...	None						82		
53	Structure Wi (0 Deg)	None						82		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
54	Structure Wi (30 Deg)	None						82		
55	Structure Wi (60 Deg)	None						82		
56	Structure Wi (90 Deg)	None						82		
57	Structure Wi (120 De...	None						82		
58	Structure Wi (150 De...	None						82		
59	Structure Wi (180 De...	None						82		
60	Structure Wi (210 De...	None						82		
61	Structure Wi (240 De...	None						82		
62	Structure Wi (270 De...	None						82		
63	Structure Wi (300 De...	None						82		
64	Structure Wi (330 De...	None						82		
65	Structure Wm (0 Deg)	None						82		
66	Structure Wm (30 De...	None						82		
67	Structure Wm (60 De...	None						82		
68	Structure Wm (90 De...	None						82		
69	Structure Wm (120 D...	None						82		
70	Structure Wm (150 D...	None						82		
71	Structure Wm (180 D...	None						82		
72	Structure Wm (210 D...	None						82		
73	Structure Wm (240 D...	None						82		
74	Structure Wm (270 D...	None						82		
75	Structure Wm (300 D...	None						82		
76	Structure Wm (330 D...	None						82		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					96			
82	Antenna Eh (0 Deg)	None					64			
83	Antenna Eh (90 Deg)	None					64			
84	Structure Ev	ELY								
85	Structure Eh (0 Deg)	ELZ	-.03							
86	Structure Eh (90 Deg)	ELX			.03					
87	BLC 39 Transient Are...	None						34		
88	BLC 40 Transient Are...	None						34		

Load Combinations

	Description	Solve	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.2D+1.0Wo (0 D...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30 ...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 ...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 ...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (12...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (15...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (18...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (21...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (24...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (27...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (33...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								

Load Combinations (Continued)

	Description	Solve	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
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										
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	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX					
53	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5				
54	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866				
55	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1				
56	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
57	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
58	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX					
59	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
60	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
61	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1				
62	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866				
63	1.2D + 1.0Ev + 1....		Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5				
64	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX					
65	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5				
66	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866				
67	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1				
68	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866				
69	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5				
70	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX					
71	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5				
72	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866				
73	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1				
74	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866				

Load Combinations (Continued)

	Description	Solve	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
75	0.9D - 1.0Ev + 1....		Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	-0.166667	0.291667	0	
2	N2	7	0	0.291667	0	
3	N3	-7	0	0.291667	0	
4	N4	0	0	-1.625	0	
5	N5	3.666667	0	-1.625	0	
6	N6	-3.666667	0	-1.625	0	
7	N7	0	-0.166667	-2.604167	0	
8	N8	0	0	-3.833333	0	
9	N23A	0	0	0.291667	0	
10	N26	0	-0.166667	-1.625	0	
11	N11	3.572355	-0.166667	-5.895833	0	
12	N12	0.072355	0	-11.958011	0	
13	N13	7.072355	0	0.166344	0	
14	N14	1.912473	0	-4.9375	0	
15	N15	0.079139	0	-8.112926	0	
16	N16	3.745806	0	-1.762074	0	
17	N17	1.06449	-0.166667	-4.447917	0	
18	N19	3.572355	0	-5.895833	0	
19	N20	1.912473	-0.166667	-4.9375	0	
20	N21	-3.572355	-0.166667	-5.895833	0	
21	N22	-7.072355	0	0.166344	0	
22	N23	-0.072355	0	-11.958011	0	
23	N24	-1.912473	0	-4.9375	0	
24	N25	-3.745806	0	-1.762074	0	
25	N26A	-0.079139	0	-8.112926	0	
26	N27	-1.06449	-0.166667	-4.447917	0	
27	N29	-3.572355	0	-5.895833	0	
28	N30	-1.912473	-0.166667	-4.9375	0	
29	N29A	0.075747	0	-10.035469	0	
30	N30A	-0.075747	0	-10.035469	0	
31	N36	-5.40908	0	-0.797865	0	
32	N37	-5.333333	0	-0.666667	0	
33	N43	5.333333	0	-0.666667	0	
34	N44	5.40908	0	-0.797865	0	
35	N35	5.3125	0	0.291667	0	
36	N36A	5.3125	0	0.541667	0	
37	N37A	5.3125	2.875	0.541667	0	
38	N38	5.3125	-3.125	0.541667	0	
39	N39	3.375	0	0.291667	0	
40	N40	3.375	0	0.541667	0	
41	N41	3.375	2.875	0.541667	0	
42	N42	3.375	-3.125	0.541667	0	
43	N43A	-0.4375	0	0.291667	0	
44	N44A	-0.4375	0	0.541667	0	
45	N45	-0.4375	2.875	0.541667	0	
46	N46	-0.4375	-3.125	0.541667	0	
47	N47	-4.1875	0	0.291667	0	
48	N48	-4.1875	0	0.541667	0	
49	N49	-4.1875	2.875	0.541667	0	
50	N50	-4.1875	-3.125	0.541667	0	
51	N52	0.916105	0	-10.496593	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N53	1.132611	0	-10.621593	0	
53	N54	1.132611	2.875	-10.621593	0	
54	N55	1.132611	-3.125	-10.621593	0	
55	N56	1.884855	0	-8.818669	0	
56	N57	2.101361	0	-8.943669	0	
57	N58	2.101361	2.875	-8.943669	0	
58	N59	2.101361	-3.125	-8.943669	0	
59	N60	3.791105	0	-5.516947	0	
60	N61	4.007611	0	-5.641947	0	
61	N62	4.007611	2.875	-5.641947	0	
62	N63	4.007611	-3.125	-5.641947	0	
63	N64	5.666105	0	-2.269352	0	
64	N65	5.882611	0	-2.394352	0	
65	N66	5.882611	2.875	-2.394352	0	
66	N67	5.882611	-3.125	-2.394352	0	
67	N69	-6.228605	0	-1.295073	0	
68	N70	-6.445111	0	-1.420073	0	
69	N71	-6.445111	2.875	-1.420073	0	
70	N72	-6.445111	-3.125	-1.420073	0	
71	N73	-5.259855	0	-2.972998	0	
72	N74	-5.476361	0	-3.097998	0	
73	N75	-5.476361	2.875	-3.097998	0	
74	N76	-5.476361	-3.125	-3.097998	0	
75	N77	-3.353605	0	-6.274719	0	
76	N78	-3.570111	0	-6.399719	0	
77	N79	-3.570111	2.875	-6.399719	0	
78	N80	-3.570111	-3.125	-6.399719	0	
79	N81	-1.478605	0	-9.522315	0	
80	N82	-1.695111	0	-9.647315	0	
81	N83	-1.695111	2.875	-9.647315	0	
82	N84	-1.695111	-3.125	-9.647315	0	
83	N83A	4.007611	1.875	-5.641947	0	
84	N84A	4.007611	-2.125	-5.641947	0	
85	N85	4.440624	1.875	-5.891947	0	
86	N86	4.440624	-2.125	-5.891947	0	
87	N87	4.440624	2.875	-5.891947	0	
88	N88	4.440624	-3.125	-5.891947	0	
89	N89	6.75	2.5	0.291667	0	
90	N90	-6.75	2.5	0.291667	0	
91	N91	5.3125	2.5	0.291667	0	
92	N92	5.3125	2.5	0.541667	0	
93	N93	3.375	2.5	0.291667	0	
94	N94	3.375	2.5	0.541667	0	
95	N95	-0.4375	2.5	0.291667	0	
96	N96	-0.4375	2.5	0.541667	0	
97	N97	-4.1875	2.5	0.291667	0	
98	N98	-4.1875	2.5	0.541667	0	
99	N100	0.197355	2.5	-11.741505	0	
100	N101	6.947355	2.5	-0.050162	0	
101	N102	0.916105	2.5	-10.496593	0	
102	N103	1.132611	2.5	-10.621593	0	
103	N104	1.884855	2.5	-8.818669	0	
104	N105	2.101361	2.5	-8.943669	0	
105	N106	3.791105	2.5	-5.516947	0	
106	N107	4.007611	2.5	-5.641947	0	
107	N108	5.666105	2.5	-2.269352	0	
108	N109	5.882611	2.5	-2.394352	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N111	-6.947355	2.5	-0.050162	0	
110	N112	-0.197355	2.5	-11.741505	0	
111	N113	-6.228605	2.5	-1.295073	0	
112	N114	-6.445111	2.5	-1.420073	0	
113	N115	-5.259855	2.5	-2.972998	0	
114	N116	-5.476361	2.5	-3.097998	0	
115	N117	-3.353605	2.5	-6.274719	0	
116	N118	-3.570111	2.5	-6.399719	0	
117	N119	-1.478605	2.5	-9.522315	0	
118	N120	-1.695111	2.5	-9.647315	0	
119	N119A	-4.75	2.5	0.291667	0	
120	N120A	4.75	2.5	0.291667	0	
121	N121	-4.75	2.5	0.166667	0	
122	N122	4.75	2.5	0.166667	0	
123	N124	5.947355	2.5	-1.782213	0	
124	N125	1.197355	2.5	-10.009454	0	
125	N126	5.839102	2.5	-1.719713	0	
126	N127	1.089102	2.5	-9.946954	0	
127	N129	-1.197355	2.5	-10.009454	0	
128	N130	-5.947355	2.5	-1.782213	0	
129	N131	-1.089102	2.5	-9.946954	0	
130	N132	-5.839102	2.5	-1.719713	0	
131	N131A	0.072355	0	-10.958011	0	
132	N132A	-0.072355	0	-10.958011	0	
133	N133	-0.	0	-10.958011	0	
134	N134	-0.	-2.166667	-5.0625	0	
135	N135	0	-2	-3.833333	0	
136	N136	-1.06449	-2.166667	-3.21875	0	
137	N137	1.06449	-2.166667	-3.21875	0	
138	N139	-6.206329	0	-0.333656	0	
139	N140	-6.133975	0	-0.208333	0	
140	N141	-6.170152	0	-0.270994	0	
141	N144	6.133975	0	-0.208333	0	
142	N145	6.206329	0	-0.333656	0	
143	N146	6.170152	0	-0.270994	0	
144	N146A	5.882611	1.875	-2.394352	0	
145	N147	5.882611	-2.125	-2.394352	0	
146	N148	6.315624	1.875	-2.644352	0	
147	N149	6.315624	-2.125	-2.644352	0	
148	N150	6.315624	2.875	-2.644352	0	
149	N151	6.315624	-3.125	-2.644352	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Back Standoff H...	HSS4X4X5	Beam	Tube	A500 Gr. B 46	Typical	4.1	9.14	9.14	15.3
2	Platform Angle	L3X3X5	Beam	Single Angle	A36 Gr.36	Typical	1.78	1.5	1.5	.06
3	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Front Standoff H...	HSS4.5X4....	Beam	Tube	A500 Gr. B 46	Typical	2.93	9.02	9.02	14.4
5	MOD Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
6	MOD Corner An...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
7	MOD Kicker	LL3x3x3x6	Column	Double Angle (...	A36 Gr.36	Typical	2.18	4.97	1.9	.027

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N2		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
2	M2	N2	N5		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
3	M3	N5	N6		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
4	M4	N6	N3		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
5	M5	N7	N26			Back Standoff ...	Beam	Tube	A500 Gr. ...	Typical
6	M22	N23A	N1			RIGID	None	None	RIGID	Typical
7	M23	N4	N26			RIGID	None	None	RIGID	Typical
8	M8	N26	N1			Front Standoff ...	Beam	Tube	A500 Gr. ...	Typical
9	M9	N13	N12		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
10	M10	N12	N15		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
11	M11	N15	N16		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
12	M12	N16	N13		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
13	M13	N17	N20			Back Standoff ...	Beam	Tube	A500 Gr. ...	Typical
14	M14	N19	N11			RIGID	None	None	RIGID	Typical
15	M15	N14	N20			RIGID	None	None	RIGID	Typical
16	M16	N20	N11			Front Standoff ...	Beam	Tube	A500 Gr. ...	Typical
17	M17	N23	N22		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
18	M18	N22	N25		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
19	M19	N25	N26A		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
20	M20	N26A	N23		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
21	M21	N27	N30			Back Standoff ...	Beam	Tube	A500 Gr. ...	Typical
22	M22A	N29	N21			RIGID	None	None	RIGID	Typical
23	M23A	N24	N30			RIGID	None	None	RIGID	Typical
24	M24	N30	N21			Front Standoff ...	Beam	Tube	A500 Gr. ...	Typical
25	M25	N26A	N15			RIGID	None	None	RIGID	Typical
26	M26	N30A	N29A			RIGID	None	None	RIGID	Typical
27	M27	N23	N12			RIGID	None	None	RIGID	Typical
28	M28	N6	N25			RIGID	None	None	RIGID	Typical
29	M29	N37	N36			RIGID	None	None	RIGID	Typical
30	M30	N3	N22			RIGID	None	None	RIGID	Typical
31	M31	N16	N5			RIGID	None	None	RIGID	Typical
32	M32	N44	N43			RIGID	None	None	RIGID	Typical
33	M33	N13	N2			RIGID	None	None	RIGID	Typical
34	M34	N35	N36A			RIGID	None	None	RIGID	Typical
35	MP1A	N37A	N38			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
36	M36	N39	N40			RIGID	None	None	RIGID	Typical
37	MP2A	N41	N42			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
38	M38	N43A	N44A			RIGID	None	None	RIGID	Typical
39	MP3A	N45	N46			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
40	M40	N47	N48			RIGID	None	None	RIGID	Typical
41	MP4A	N49	N50			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
42	M42	N52	N53			RIGID	None	None	RIGID	Typical
43	MP1C	N54	N55			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
44	M44	N56	N57			RIGID	None	None	RIGID	Typical
45	MP2C	N58	N59			Mount 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
46	M46	N60	N61			RIGID	None	None	RIGID	Typical
47	MP3CA	N62	N63			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
48	M48	N64	N65			RIGID	None	None	RIGID	Typical
49	MP4CA	N66	N67			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
50	M50	N69	N70			RIGID	None	None	RIGID	Typical
51	MP1B	N71	N72			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
52	M52	N73	N74			RIGID	None	None	RIGID	Typical
53	MP2B	N75	N76			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
54	M54	N77	N78			RIGID	None	None	RIGID	Typical
55	MP3B	N79	N80			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
56	M56	N81	N82			RIGID	None	None	RIGID	Typical
57	MP4B	N83	N84			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
58	M58	N83A	N85			RIGID	None	None	RIGID	Typical
59	M59	N84A	N86			RIGID	None	None	RIGID	Typical
60	MP3C	N87	N88			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
61	M61	N90	N89		270	MOD Support ...	Beam	Pipe	A53 Gr. B	Typical
62	M62	N91	N92			RIGID	None	None	RIGID	Typical
63	M63	N93	N94			RIGID	None	None	RIGID	Typical
64	M64	N95	N96			RIGID	None	None	RIGID	Typical
65	M65	N97	N98			RIGID	None	None	RIGID	Typical
66	M66	N101	N100		270	MOD Support ...	Beam	Pipe	A53 Gr. B	Typical
67	M67	N102	N103			RIGID	None	None	RIGID	Typical
68	M68	N104	N105			RIGID	None	None	RIGID	Typical
69	M69	N106	N107			RIGID	None	None	RIGID	Typical
70	M70	N108	N109			RIGID	None	None	RIGID	Typical
71	M71	N112	N111		270	MOD Support ...	Beam	Pipe	A53 Gr. B	Typical
72	M72	N113	N114			RIGID	None	None	RIGID	Typical
73	M73	N115	N116			RIGID	None	None	RIGID	Typical
74	M74	N117	N118			RIGID	None	None	RIGID	Typical
75	M75	N119	N120			RIGID	None	None	RIGID	Typical
76	M76	N119A	N121			RIGID	None	None	RIGID	Typical
77	M77	N120A	N122			RIGID	None	None	RIGID	Typical
78	M78	N124	N126			RIGID	None	None	RIGID	Typical
79	M79	N125	N127			RIGID	None	None	RIGID	Typical
80	M80	N129	N131			RIGID	None	None	RIGID	Typical
81	M81	N130	N132			RIGID	None	None	RIGID	Typical
82	M82	N121	N132		90	MOD Corner A...	Beam	Single Angle	A36 Gr.36	Typical
83	M83	N126	N122		90	MOD Corner A...	Beam	Single Angle	A36 Gr.36	Typical
84	M84	N131	N127		90	MOD Corner A...	Beam	Single Angle	A36 Gr.36	Typical
85	M85	N132A	N131A			RIGID	None	None	RIGID	Typical
86	M86	N133	N134			MOD Kicker	Column	Double Angle (...	A36 Gr.36	Typical
87	M87	N140	N139			RIGID	None	None	RIGID	Typical
88	M88	N141	N136			MOD Kicker	Column	Double Angle (...	A36 Gr.36	Typical
89	M89	N145	N144			RIGID	None	None	RIGID	Typical
90	M90	N146	N137			MOD Kicker	Column	Double Angle (...	A36 Gr.36	Typical
91	M91	N146A	N148			RIGID	None	None	RIGID	Typical
92	M92	N147	N149			RIGID	None	None	RIGID	Typical
93	MP4C	N150	N151			Mount Pipe	Column	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes				None
4	M4						Yes				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...
5	M5						Yes				None
6	M22						Yes	** NA **			None
7	M23						Yes	** NA **			None
8	M8						Yes				None
9	M9						Yes				None
10	M10						Yes				None
11	M11						Yes				None
12	M12						Yes				None
13	M13						Yes				None
14	M14						Yes	** NA **			None
15	M15						Yes	** NA **			None
16	M16						Yes				None
17	M17						Yes				None
18	M18						Yes				None
19	M19						Yes				None
20	M20						Yes				None
21	M21						Yes				None
22	M22A						Yes	** NA **			None
23	M23A						Yes	** NA **			None
24	M24						Yes				None
25	M25	OOOXOO					Yes	** NA **			None
26	M26	OOOXOO					Yes	** NA **			None
27	M27	OOOXOO					Yes	** NA **			None
28	M28	OOOXOO					Yes	** NA **			None
29	M29	OOOXOO					Yes	** NA **			None
30	M30	OOOXOO					Yes	** NA **			None
31	M31	OOOXOO					Yes	** NA **			None
32	M32	OOOXOO					Yes	** NA **			None
33	M33	OOOXOO					Yes	** NA **			None
34	M34						Yes	** NA **			None
35	MP1A						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	MP2A						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	MP3A						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	MP4A						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	MP1C						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	MP2C						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	MP3CA						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	MP4CA						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	MP1B						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	MP2B						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	MP3B						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	MP4B						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None
60	MP3C						Yes	** NA **			None
61	M61						Yes				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...
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None
65	M65						Yes	** NA **			None
66	M66						Yes				None
67	M67						Yes	** NA **			None
68	M68						Yes	** NA **			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes				None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	M76		OOOOOO				Yes	** NA **			None
77	M77		OOOOOO				Yes	** NA **			None
78	M78		OOOOOO				Yes	** NA **			None
79	M79		OOOOOO				Yes	** NA **			None
80	M80		OOOOOO				Yes	** NA **			None
81	M81		OOOOOO				Yes	** NA **			None
82	M82						Yes				None
83	M83						Yes				None
84	M84						Yes				None
85	M85						Yes	** NA **			None
86	M86	BenPIN	BenPIN				Yes	** NA **			None
87	M87						Yes	** NA **			None
88	M88	BenPIN	BenPIN				Yes	** NA **			None
89	M89						Yes	** NA **			None
90	M90	BenPIN	BenPIN				Yes	** NA **			None
91	M91						Yes	** NA **			None
92	M92						Yes	** NA **			None
93	MP4C						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-43.55	2
2	MP4A	My	-.022	2
3	MP4A	Mz	0	2
4	MP4A	Y	-43.55	4
5	MP4A	My	-.022	4
6	MP4A	Mz	0	4
7	MP4B	Y	-43.55	2
8	MP4B	My	.011	2
9	MP4B	Mz	-.019	2
10	MP4B	Y	-43.55	4
11	MP4B	My	.011	4
12	MP4B	Mz	-.019	4
13	MP4C	Y	-43.55	2
14	MP4C	My	0	2
15	MP4C	Mz	.022	2
16	MP4C	Y	-43.55	4
17	MP4C	My	0	4
18	MP4C	Mz	.022	4
19	MP1A	Y	-32	1
20	MP1A	My	.016	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP1A	Mz	0	1
22	MP1B	Y	-32	1
23	MP1B	My	-.008	1
24	MP1B	Mz	.014	1
25	MP2A	Y	-84.4	1.5
26	MP2A	My	.042	1.5
27	MP2A	Mz	0	1.5
28	MP2B	Y	-84.4	1.5
29	MP2B	My	-.021	1.5
30	MP2B	Mz	.037	1.5
31	MP2C	Y	-84.4	1.5
32	MP2C	My	0	1.5
33	MP2C	Mz	-.042	1.5
34	MP3A	Y	-70.3	1.5
35	MP3A	My	.035	1.5
36	MP3A	Mz	0	1.5
37	MP3B	Y	-70.3	1.5
38	MP3B	My	-.018	1.5
39	MP3B	Mz	.03	1.5
40	MP3C	Y	-70.3	1.5
41	MP3C	My	0	1.5
42	MP3C	Mz	-.035	1.5
43	MP1B	Y	-9.6	.5
44	MP1B	My	.002	.5
45	MP1B	Mz	-.004	.5
46	MP1B	Y	-9.6	5.5
47	MP1B	My	.002	5.5
48	MP1B	Mz	-.004	5.5
49	MP1C	Y	-6	1.5
50	MP1C	My	0	1.5
51	MP1C	Mz	.003	1.5
52	MP1C	Y	-6	4.5
53	MP1C	My	0	4.5
54	MP1C	Mz	.003	4.5
55	MP1A	Y	-9	.5
56	MP1A	My	-.004	.5
57	MP1A	Mz	0	.5
58	MP1A	Y	-9	5.5
59	MP1A	My	-.004	5.5
60	MP1A	Mz	0	5.5
61	MP3A	Y	-20	.5
62	MP3A	My	-.01	.5
63	MP3A	Mz	.012	.5
64	MP3A	Y	-20	5.5
65	MP3A	My	-.01	5.5
66	MP3A	Mz	.012	5.5
67	MP3B	Y	-20	.5
68	MP3B	My	-.005	.5
69	MP3B	Mz	-.014	.5
70	MP3B	Y	-20	5.5
71	MP3B	My	-.005	5.5
72	MP3B	Mz	-.014	5.5
73	MP3C	Y	-20	.5
74	MP3C	My	.012	.5
75	MP3C	Mz	.01	.5
76	MP3C	Y	-20	5.5
77	MP3C	My	.012	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP3C	Mz	.01	5.5
79	MP3A	Y	-20	.5
80	MP3A	My	-.01	.5
81	MP3A	Mz	-.012	.5
82	MP3A	Y	-20	5.5
83	MP3A	My	-.01	5.5
84	MP3A	Mz	-.012	5.5
85	MP3B	Y	-20	.5
86	MP3B	My	.015	.5
87	MP3B	Mz	-.003	.5
88	MP3B	Y	-20	5.5
89	MP3B	My	.015	5.5
90	MP3B	Mz	-.003	5.5
91	MP3C	Y	-20	.5
92	MP3C	My	-.012	.5
93	MP3C	Mz	.01	.5
94	MP3C	Y	-20	5.5
95	MP3C	My	-.012	5.5
96	MP3C	Mz	.01	5.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-54.72	2
2	MP4A	My	-.027	2
3	MP4A	Mz	0	2
4	MP4A	Y	-54.72	4
5	MP4A	My	-.027	4
6	MP4A	Mz	0	4
7	MP4B	Y	-54.72	2
8	MP4B	My	.014	2
9	MP4B	Mz	-.024	2
10	MP4B	Y	-54.72	4
11	MP4B	My	.014	4
12	MP4B	Mz	-.024	4
13	MP4C	Y	-54.72	2
14	MP4C	My	0	2
15	MP4C	Mz	.027	2
16	MP4C	Y	-54.72	4
17	MP4C	My	0	4
18	MP4C	Mz	.027	4
19	MP1A	Y	-116.168	1
20	MP1A	My	.058	1
21	MP1A	Mz	0	1
22	MP1B	Y	-116.168	1
23	MP1B	My	-.029	1
24	MP1B	Mz	.05	1
25	MP2A	Y	-69.503	1.5
26	MP2A	My	.035	1.5
27	MP2A	Mz	0	1.5
28	MP2B	Y	-69.503	1.5
29	MP2B	My	-.017	1.5
30	MP2B	Mz	.03	1.5
31	MP2C	Y	-69.503	1.5
32	MP2C	My	0	1.5
33	MP2C	Mz	-.035	1.5
34	MP3A	Y	-62.733	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP3A	My	.031	1.5
36	MP3A	Mz	0	1.5
37	MP3B	Y	-62.733	1.5
38	MP3B	My	-.016	1.5
39	MP3B	Mz	.027	1.5
40	MP3C	Y	-62.733	1.5
41	MP3C	My	0	1.5
42	MP3C	Mz	-.031	1.5
43	MP1B	Y	-77.625	.5
44	MP1B	My	.019	.5
45	MP1B	Mz	-.034	.5
46	MP1B	Y	-77.625	5.5
47	MP1B	My	.019	5.5
48	MP1B	Mz	-.034	5.5
49	MP1C	Y	-47.799	1.5
50	MP1C	My	0	1.5
51	MP1C	Mz	.024	1.5
52	MP1C	Y	-47.799	4.5
53	MP1C	My	0	4.5
54	MP1C	Mz	.024	4.5
55	MP1A	Y	-69.019	.5
56	MP1A	My	-.035	.5
57	MP1A	Mz	0	.5
58	MP1A	Y	-69.019	5.5
59	MP1A	My	-.035	5.5
60	MP1A	Mz	0	5.5
61	MP3A	Y	-93.442	.5
62	MP3A	My	-.047	.5
63	MP3A	Mz	.055	.5
64	MP3A	Y	-93.442	5.5
65	MP3A	My	-.047	5.5
66	MP3A	Mz	.055	5.5
67	MP3B	Y	-93.442	.5
68	MP3B	My	-.024	.5
69	MP3B	Mz	-.068	.5
70	MP3B	Y	-93.442	5.5
71	MP3B	My	-.024	5.5
72	MP3B	Mz	-.068	5.5
73	MP3C	Y	-93.442	.5
74	MP3C	My	.055	.5
75	MP3C	Mz	.047	.5
76	MP3C	Y	-93.442	5.5
77	MP3C	My	.055	5.5
78	MP3C	Mz	.047	5.5
79	MP3A	Y	-93.442	.5
80	MP3A	My	-.047	.5
81	MP3A	Mz	-.055	.5
82	MP3A	Y	-93.442	5.5
83	MP3A	My	-.047	5.5
84	MP3A	Mz	-.055	5.5
85	MP3B	Y	-93.442	.5
86	MP3B	My	.071	.5
87	MP3B	Mz	-.013	.5
88	MP3B	Y	-93.442	5.5
89	MP3B	My	.071	5.5
90	MP3B	Mz	-.013	5.5
91	MP3C	Y	-93.442	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP3C	My	-.055	.5
93	MP3C	Mz	.047	.5
94	MP3C	Y	-93.442	5.5
95	MP3C	My	-.055	5.5
96	MP3C	Mz	.047	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2
2	MP4A	Z	-88.123	2
3	MP4A	Mx	0	2
4	MP4A	X	0	4
5	MP4A	Z	-88.123	4
6	MP4A	Mx	0	4
7	MP4B	X	0	2
8	MP4B	Z	-47.906	2
9	MP4B	Mx	.021	2
10	MP4B	X	0	4
11	MP4B	Z	-47.906	4
12	MP4B	Mx	.021	4
13	MP4C	X	0	2
14	MP4C	Z	-34.5	2
15	MP4C	Mx	-.017	2
16	MP4C	X	0	4
17	MP4C	Z	-34.5	4
18	MP4C	Mx	-.017	4
19	MP1A	X	0	1
20	MP1A	Z	-142.121	1
21	MP1A	Mx	0	1
22	MP1B	X	0	1
23	MP1B	Z	-106.085	1
24	MP1B	Mx	-.046	1
25	MP2A	X	0	1.5
26	MP2A	Z	-70.123	1.5
27	MP2A	Mx	0	1.5
28	MP2B	X	0	1.5
29	MP2B	Z	-52.686	1.5
30	MP2B	Mx	-.023	1.5
31	MP2C	X	0	1.5
32	MP2C	Z	-46.874	1.5
33	MP2C	Mx	.023	1.5
34	MP3A	X	0	1.5
35	MP3A	Z	-70.123	1.5
36	MP3A	Mx	0	1.5
37	MP3B	X	0	1.5
38	MP3B	Z	-46.007	1.5
39	MP3B	Mx	-.02	1.5
40	MP3C	X	0	1.5
41	MP3C	Z	-37.968	1.5
42	MP3C	Mx	.019	1.5
43	MP1B	X	0	.5
44	MP1B	Z	-90.771	.5
45	MP1B	Mx	.039	.5
46	MP1B	X	0	5.5
47	MP1B	Z	-90.771	5.5
48	MP1B	Mx	.039	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP1C	X	0	1.5
50	MP1C	Z	-52.364	1.5
51	MP1C	Mx	-.026	1.5
52	MP1C	X	0	4.5
53	MP1C	Z	-52.364	4.5
54	MP1C	Mx	-.026	4.5
55	MP1A	X	0	.5
56	MP1A	Z	-107.997	.5
57	MP1A	Mx	0	.5
58	MP1A	X	0	5.5
59	MP1A	Z	-107.997	5.5
60	MP1A	Mx	0	5.5
61	MP3A	X	0	.5
62	MP3A	Z	-152.996	.5
63	MP3A	Mx	-.089	.5
64	MP3A	X	0	5.5
65	MP3A	Z	-152.996	5.5
66	MP3A	Mx	-.089	5.5
67	MP3B	X	0	.5
68	MP3B	Z	-114.132	.5
69	MP3B	Mx	.083	.5
70	MP3B	X	0	5.5
71	MP3B	Z	-114.132	5.5
72	MP3B	Mx	.083	5.5
73	MP3C	X	0	.5
74	MP3C	Z	-101.177	.5
75	MP3C	Mx	-.051	.5
76	MP3C	X	0	5.5
77	MP3C	Z	-101.177	5.5
78	MP3C	Mx	-.051	5.5
79	MP3A	X	0	.5
80	MP3A	Z	-152.996	.5
81	MP3A	Mx	.089	.5
82	MP3A	X	0	5.5
83	MP3A	Z	-152.996	5.5
84	MP3A	Mx	.089	5.5
85	MP3B	X	0	.5
86	MP3B	Z	-114.132	.5
87	MP3B	Mx	.016	.5
88	MP3B	X	0	5.5
89	MP3B	Z	-114.132	5.5
90	MP3B	Mx	.016	5.5
91	MP3C	X	0	.5
92	MP3C	Z	-101.177	.5
93	MP3C	Mx	-.051	.5
94	MP3C	X	0	5.5
95	MP3C	Z	-101.177	5.5
96	MP3C	Mx	-.051	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	37.359	2
2	MP4A	Z	-64.707	2
3	MP4A	Mx	-.019	2
4	MP4A	X	37.359	4
5	MP4A	Z	-64.707	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP4A	Mx	-.019	4
7	MP4B	X	17.25	2
8	MP4B	Z	-29.878	2
9	MP4B	Mx	.017	2
10	MP4B	X	17.25	4
11	MP4B	Z	-29.878	4
12	MP4B	Mx	.017	4
13	MP4C	X	23.953	2
14	MP4C	Z	-41.487	2
15	MP4C	Mx	-.021	2
16	MP4C	X	23.953	4
17	MP4C	Z	-41.487	4
18	MP4C	Mx	-.021	4
19	MP1A	X	65.055	1
20	MP1A	Z	-112.678	1
21	MP1A	Mx	.033	1
22	MP1B	X	47.037	1
23	MP1B	Z	-81.47	1
24	MP1B	Mx	-.047	1
25	MP2A	X	32.155	1.5
26	MP2A	Z	-55.695	1.5
27	MP2A	Mx	.016	1.5
28	MP2B	X	23.437	1.5
29	MP2B	Z	-40.594	1.5
30	MP2B	Mx	-.023	1.5
31	MP2C	X	26.343	1.5
32	MP2C	Z	-45.628	1.5
33	MP2C	Mx	.023	1.5
34	MP3A	X	31.042	1.5
35	MP3A	Z	-53.767	1.5
36	MP3A	Mx	.016	1.5
37	MP3B	X	18.984	1.5
38	MP3B	Z	-32.881	1.5
39	MP3B	Mx	-.019	1.5
40	MP3C	X	23.003	1.5
41	MP3C	Z	-39.843	1.5
42	MP3C	Mx	.02	1.5
43	MP1B	X	37.827	.5
44	MP1B	Z	-65.519	.5
45	MP1B	Mx	.038	.5
46	MP1B	X	37.827	5.5
47	MP1B	Z	-65.519	5.5
48	MP1B	Mx	.038	5.5
49	MP1C	X	27.98	1.5
50	MP1C	Z	-48.463	1.5
51	MP1C	Mx	-.024	1.5
52	MP1C	X	27.98	4.5
53	MP1C	Z	-48.463	4.5
54	MP1C	Mx	-.024	4.5
55	MP1A	X	51.188	.5
56	MP1A	Z	-88.66	.5
57	MP1A	Mx	-.026	.5
58	MP1A	X	51.188	5.5
59	MP1A	Z	-88.66	5.5
60	MP1A	Mx	-.026	5.5
61	MP3A	X	70.021	.5
62	MP3A	Z	-121.279	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP3A	Mx	-.106	.5
64	MP3A	X	70.021	5.5
65	MP3A	Z	-121.279	5.5
66	MP3A	Mx	-.106	5.5
67	MP3B	X	50.589	.5
68	MP3B	Z	-87.622	.5
69	MP3B	Mx	.051	.5
70	MP3B	X	50.589	5.5
71	MP3B	Z	-87.622	5.5
72	MP3B	Mx	.051	5.5
73	MP3C	X	57.066	.5
74	MP3C	Z	-98.841	.5
75	MP3C	Mx	-.016	.5
76	MP3C	X	57.066	5.5
77	MP3C	Z	-98.841	5.5
78	MP3C	Mx	-.016	5.5
79	MP3A	X	70.021	.5
80	MP3A	Z	-121.279	.5
81	MP3A	Mx	.036	.5
82	MP3A	X	70.021	5.5
83	MP3A	Z	-121.279	5.5
84	MP3A	Mx	.036	5.5
85	MP3B	X	50.589	.5
86	MP3B	Z	-87.622	.5
87	MP3B	Mx	.051	.5
88	MP3B	X	50.589	5.5
89	MP3B	Z	-87.622	5.5
90	MP3B	Mx	.051	5.5
91	MP3C	X	57.066	.5
92	MP3C	Z	-98.841	.5
93	MP3C	Mx	-.083	.5
94	MP3C	X	57.066	5.5
95	MP3C	Z	-98.841	5.5
96	MP3C	Mx	-.083	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	41.487	2
2	MP4A	Z	-23.953	2
3	MP4A	Mx	-.021	2
4	MP4A	X	41.487	4
5	MP4A	Z	-23.953	4
6	MP4A	Mx	-.021	4
7	MP4B	X	41.487	2
8	MP4B	Z	-23.953	2
9	MP4B	Mx	.021	2
10	MP4B	X	41.487	4
11	MP4B	Z	-23.953	4
12	MP4B	Mx	.021	4
13	MP4C	X	64.707	2
14	MP4C	Z	-37.359	2
15	MP4C	Mx	-.019	2
16	MP4C	X	64.707	4
17	MP4C	Z	-37.359	4
18	MP4C	Mx	-.019	4
19	MP1A	X	91.872	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1A	Z	-53.043	1
21	MP1A	Mx	.046	1
22	MP1B	X	91.872	1
23	MP1B	Z	-53.043	1
24	MP1B	Mx	-.046	1
25	MP2A	X	45.628	1.5
26	MP2A	Z	-26.343	1.5
27	MP2A	Mx	.023	1.5
28	MP2B	X	45.628	1.5
29	MP2B	Z	-26.343	1.5
30	MP2B	Mx	-.023	1.5
31	MP2C	X	55.695	1.5
32	MP2C	Z	-32.155	1.5
33	MP2C	Mx	.016	1.5
34	MP3A	X	39.843	1.5
35	MP3A	Z	-23.003	1.5
36	MP3A	Mx	.02	1.5
37	MP3B	X	39.843	1.5
38	MP3B	Z	-23.003	1.5
39	MP3B	Mx	-.02	1.5
40	MP3C	X	53.767	1.5
41	MP3C	Z	-31.042	1.5
42	MP3C	Mx	.016	1.5
43	MP1B	X	78.61	.5
44	MP1B	Z	-45.386	.5
45	MP1B	Mx	.039	.5
46	MP1B	X	78.61	5.5
47	MP1B	Z	-45.386	5.5
48	MP1B	Mx	.039	5.5
49	MP1C	X	54.691	1.5
50	MP1C	Z	-31.576	1.5
51	MP1C	Mx	-.016	1.5
52	MP1C	X	54.691	4.5
53	MP1C	Z	-31.576	4.5
54	MP1C	Mx	-.016	4.5
55	MP1A	X	78.924	.5
56	MP1A	Z	-45.567	.5
57	MP1A	Mx	-.039	.5
58	MP1A	X	78.924	5.5
59	MP1A	Z	-45.567	5.5
60	MP1A	Mx	-.039	5.5
61	MP3A	X	98.841	.5
62	MP3A	Z	-57.066	.5
63	MP3A	Mx	-.083	.5
64	MP3A	X	98.841	5.5
65	MP3A	Z	-57.066	5.5
66	MP3A	Mx	-.083	5.5
67	MP3B	X	98.841	.5
68	MP3B	Z	-57.066	.5
69	MP3B	Mx	.016	.5
70	MP3B	X	98.841	5.5
71	MP3B	Z	-57.066	5.5
72	MP3B	Mx	.016	5.5
73	MP3C	X	121.279	.5
74	MP3C	Z	-70.021	.5
75	MP3C	Mx	.036	.5
76	MP3C	X	121.279	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP3C	Z	-70.021	5.5
78	MP3C	Mx	.036	5.5
79	MP3A	X	98.841	.5
80	MP3A	Z	-57.066	.5
81	MP3A	Mx	-.016	.5
82	MP3A	X	98.841	5.5
83	MP3A	Z	-57.066	5.5
84	MP3A	Mx	-.016	5.5
85	MP3B	X	98.841	.5
86	MP3B	Z	-57.066	.5
87	MP3B	Mx	.083	.5
88	MP3B	X	98.841	5.5
89	MP3B	Z	-57.066	5.5
90	MP3B	Mx	.083	5.5
91	MP3C	X	121.279	.5
92	MP3C	Z	-70.021	.5
93	MP3C	Mx	-.106	.5
94	MP3C	X	121.279	5.5
95	MP3C	Z	-70.021	5.5
96	MP3C	Mx	-.106	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	34.5	2
2	MP4A	Z	0	2
3	MP4A	Mx	-.017	2
4	MP4A	X	34.5	4
5	MP4A	Z	0	4
6	MP4A	Mx	-.017	4
7	MP4B	X	74.717	2
8	MP4B	Z	0	2
9	MP4B	Mx	.019	2
10	MP4B	X	74.717	4
11	MP4B	Z	0	4
12	MP4B	Mx	.019	4
13	MP4C	X	88.123	2
14	MP4C	Z	0	2
15	MP4C	Mx	0	2
16	MP4C	X	88.123	4
17	MP4C	Z	0	4
18	MP4C	Mx	0	4
19	MP1A	X	94.073	1
20	MP1A	Z	0	1
21	MP1A	Mx	.047	1
22	MP1B	X	130.109	1
23	MP1B	Z	0	1
24	MP1B	Mx	-.033	1
25	MP2A	X	46.874	1.5
26	MP2A	Z	0	1.5
27	MP2A	Mx	.023	1.5
28	MP2B	X	64.311	1.5
29	MP2B	Z	0	1.5
30	MP2B	Mx	-.016	1.5
31	MP2C	X	70.123	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP3A	X	37.968	1.5
35	MP3A	Z	0	1.5
36	MP3A	Mx	.019	1.5
37	MP3B	X	62.084	1.5
38	MP3B	Z	0	1.5
39	MP3B	Mx	-.016	1.5
40	MP3C	X	70.123	1.5
41	MP3C	Z	0	1.5
42	MP3C	Mx	0	1.5
43	MP1B	X	121.005	.5
44	MP1B	Z	0	.5
45	MP1B	Mx	.03	.5
46	MP1B	X	121.005	5.5
47	MP1B	Z	0	5.5
48	MP1B	Mx	.03	5.5
49	MP1C	X	66.748	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	66.748	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	0	4.5
55	MP1A	X	85.512	.5
56	MP1A	Z	0	.5
57	MP1A	Mx	-.043	.5
58	MP1A	X	85.512	5.5
59	MP1A	Z	0	5.5
60	MP1A	Mx	-.043	5.5
61	MP3A	X	101.177	.5
62	MP3A	Z	0	.5
63	MP3A	Mx	-.051	.5
64	MP3A	X	101.177	5.5
65	MP3A	Z	0	5.5
66	MP3A	Mx	-.051	5.5
67	MP3B	X	140.041	.5
68	MP3B	Z	0	.5
69	MP3B	Mx	-.036	.5
70	MP3B	X	140.041	5.5
71	MP3B	Z	0	5.5
72	MP3B	Mx	-.036	5.5
73	MP3C	X	152.996	.5
74	MP3C	Z	0	.5
75	MP3C	Mx	.089	.5
76	MP3C	X	152.996	5.5
77	MP3C	Z	0	5.5
78	MP3C	Mx	.089	5.5
79	MP3A	X	101.177	.5
80	MP3A	Z	0	.5
81	MP3A	Mx	-.051	.5
82	MP3A	X	101.177	5.5
83	MP3A	Z	0	5.5
84	MP3A	Mx	-.051	5.5
85	MP3B	X	140.041	.5
86	MP3B	Z	0	.5
87	MP3B	Mx	.106	.5
88	MP3B	X	140.041	5.5
89	MP3B	Z	0	5.5
90	MP3B	Mx	.106	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP3C	X	152.996	.5
92	MP3C	Z	0	.5
93	MP3C	Mx	-.089	.5
94	MP3C	X	152.996	5.5
95	MP3C	Z	0	5.5
96	MP3C	Mx	-.089	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	41.487	2
2	MP4A	Z	23.953	2
3	MP4A	Mx	-.021	2
4	MP4A	X	41.487	4
5	MP4A	Z	23.953	4
6	MP4A	Mx	-.021	4
7	MP4B	X	76.317	2
8	MP4B	Z	44.061	2
9	MP4B	Mx	0	2
10	MP4B	X	76.317	4
11	MP4B	Z	44.061	4
12	MP4B	Mx	0	4
13	MP4C	X	64.707	2
14	MP4C	Z	37.359	2
15	MP4C	Mx	.019	2
16	MP4C	X	64.707	4
17	MP4C	Z	37.359	4
18	MP4C	Mx	.019	4
19	MP1A	X	91.872	1
20	MP1A	Z	53.043	1
21	MP1A	Mx	.046	1
22	MP1B	X	123.081	1
23	MP1B	Z	71.061	1
24	MP1B	Mx	0	1
25	MP2A	X	45.628	1.5
26	MP2A	Z	26.343	1.5
27	MP2A	Mx	.023	1.5
28	MP2B	X	60.728	1.5
29	MP2B	Z	35.062	1.5
30	MP2B	Mx	0	1.5
31	MP2C	X	55.695	1.5
32	MP2C	Z	32.155	1.5
33	MP2C	Mx	-.016	1.5
34	MP3A	X	39.843	1.5
35	MP3A	Z	23.003	1.5
36	MP3A	Mx	.02	1.5
37	MP3B	X	60.728	1.5
38	MP3B	Z	35.062	1.5
39	MP3B	Mx	0	1.5
40	MP3C	X	53.767	1.5
41	MP3C	Z	31.042	1.5
42	MP3C	Mx	-.016	1.5
43	MP1B	X	117.885	.5
44	MP1B	Z	68.061	.5
45	MP1B	Mx	0	.5
46	MP1B	X	117.885	5.5
47	MP1B	Z	68.061	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP1B	Mx	0	5.5
49	MP1C	X	54.691	1.5
50	MP1C	Z	31.576	1.5
51	MP1C	Mx	.016	1.5
52	MP1C	X	54.691	4.5
53	MP1C	Z	31.576	4.5
54	MP1C	Mx	.016	4.5
55	MP1A	X	78.924	.5
56	MP1A	Z	45.567	.5
57	MP1A	Mx	-.039	.5
58	MP1A	X	78.924	5.5
59	MP1A	Z	45.567	5.5
60	MP1A	Mx	-.039	5.5
61	MP3A	X	98.841	.5
62	MP3A	Z	57.066	.5
63	MP3A	Mx	-.016	.5
64	MP3A	X	98.841	5.5
65	MP3A	Z	57.066	5.5
66	MP3A	Mx	-.016	5.5
67	MP3B	X	132.499	.5
68	MP3B	Z	76.498	.5
69	MP3B	Mx	-.089	.5
70	MP3B	X	132.499	5.5
71	MP3B	Z	76.498	5.5
72	MP3B	Mx	-.089	5.5
73	MP3C	X	121.279	.5
74	MP3C	Z	70.021	.5
75	MP3C	Mx	.106	.5
76	MP3C	X	121.279	5.5
77	MP3C	Z	70.021	5.5
78	MP3C	Mx	.106	5.5
79	MP3A	X	98.841	.5
80	MP3A	Z	57.066	.5
81	MP3A	Mx	-.083	.5
82	MP3A	X	98.841	5.5
83	MP3A	Z	57.066	5.5
84	MP3A	Mx	-.083	5.5
85	MP3B	X	132.499	.5
86	MP3B	Z	76.498	.5
87	MP3B	Mx	.089	.5
88	MP3B	X	132.499	5.5
89	MP3B	Z	76.498	5.5
90	MP3B	Mx	.089	5.5
91	MP3C	X	121.279	.5
92	MP3C	Z	70.021	.5
93	MP3C	Mx	-.036	.5
94	MP3C	X	121.279	5.5
95	MP3C	Z	70.021	5.5
96	MP3C	Mx	-.036	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	37.359	2
2	MP4A	Z	64.707	2
3	MP4A	Mx	-.019	2
4	MP4A	X	37.359	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP4A	Z	64.707	4
6	MP4A	Mx	-.019	4
7	MP4B	X	37.359	2
8	MP4B	Z	64.707	2
9	MP4B	Mx	-.019	2
10	MP4B	X	37.359	4
11	MP4B	Z	64.707	4
12	MP4B	Mx	-.019	4
13	MP4C	X	23.953	2
14	MP4C	Z	41.487	2
15	MP4C	Mx	.021	2
16	MP4C	X	23.953	4
17	MP4C	Z	41.487	4
18	MP4C	Mx	.021	4
19	MP1A	X	65.055	1
20	MP1A	Z	112.678	1
21	MP1A	Mx	.033	1
22	MP1B	X	65.055	1
23	MP1B	Z	112.678	1
24	MP1B	Mx	.033	1
25	MP2A	X	32.155	1.5
26	MP2A	Z	55.695	1.5
27	MP2A	Mx	.016	1.5
28	MP2B	X	32.155	1.5
29	MP2B	Z	55.695	1.5
30	MP2B	Mx	.016	1.5
31	MP2C	X	26.343	1.5
32	MP2C	Z	45.628	1.5
33	MP2C	Mx	-.023	1.5
34	MP3A	X	31.042	1.5
35	MP3A	Z	53.767	1.5
36	MP3A	Mx	.016	1.5
37	MP3B	X	31.042	1.5
38	MP3B	Z	53.767	1.5
39	MP3B	Mx	.016	1.5
40	MP3C	X	23.003	1.5
41	MP3C	Z	39.843	1.5
42	MP3C	Mx	-.02	1.5
43	MP1B	X	60.502	.5
44	MP1B	Z	104.793	.5
45	MP1B	Mx	-.03	.5
46	MP1B	X	60.502	5.5
47	MP1B	Z	104.793	5.5
48	MP1B	Mx	-.03	5.5
49	MP1C	X	27.98	1.5
50	MP1C	Z	48.463	1.5
51	MP1C	Mx	.024	1.5
52	MP1C	X	27.98	4.5
53	MP1C	Z	48.463	4.5
54	MP1C	Mx	.024	4.5
55	MP1A	X	51.188	.5
56	MP1A	Z	88.66	.5
57	MP1A	Mx	-.026	.5
58	MP1A	X	51.188	5.5
59	MP1A	Z	88.66	5.5
60	MP1A	Mx	-.026	5.5
61	MP3A	X	70.021	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP3A	Z	121.279	.5
63	MP3A	Mx	.036	.5
64	MP3A	X	70.021	5.5
65	MP3A	Z	121.279	5.5
66	MP3A	Mx	.036	5.5
67	MP3B	X	70.021	.5
68	MP3B	Z	121.279	.5
69	MP3B	Mx	-.106	.5
70	MP3B	X	70.021	5.5
71	MP3B	Z	121.279	5.5
72	MP3B	Mx	-.106	5.5
73	MP3C	X	57.066	.5
74	MP3C	Z	98.841	.5
75	MP3C	Mx	.083	.5
76	MP3C	X	57.066	5.5
77	MP3C	Z	98.841	5.5
78	MP3C	Mx	.083	5.5
79	MP3A	X	70.021	.5
80	MP3A	Z	121.279	.5
81	MP3A	Mx	-.106	.5
82	MP3A	X	70.021	5.5
83	MP3A	Z	121.279	5.5
84	MP3A	Mx	-.106	5.5
85	MP3B	X	70.021	.5
86	MP3B	Z	121.279	.5
87	MP3B	Mx	.036	.5
88	MP3B	X	70.021	5.5
89	MP3B	Z	121.279	5.5
90	MP3B	Mx	.036	5.5
91	MP3C	X	57.066	.5
92	MP3C	Z	98.841	.5
93	MP3C	Mx	.016	.5
94	MP3C	X	57.066	5.5
95	MP3C	Z	98.841	5.5
96	MP3C	Mx	.016	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2
2	MP4A	Z	88.123	2
3	MP4A	Mx	0	2
4	MP4A	X	0	4
5	MP4A	Z	88.123	4
6	MP4A	Mx	0	4
7	MP4B	X	0	2
8	MP4B	Z	47.906	2
9	MP4B	Mx	-.021	2
10	MP4B	X	0	4
11	MP4B	Z	47.906	4
12	MP4B	Mx	-.021	4
13	MP4C	X	0	2
14	MP4C	Z	34.5	2
15	MP4C	Mx	.017	2
16	MP4C	X	0	4
17	MP4C	Z	34.5	4
18	MP4C	Mx	.017	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP1A	X	0	1
20	MP1A	Z	142.121	1
21	MP1A	Mx	0	1
22	MP1B	X	0	1
23	MP1B	Z	106.085	1
24	MP1B	Mx	.046	1
25	MP2A	X	0	1.5
26	MP2A	Z	70.123	1.5
27	MP2A	Mx	0	1.5
28	MP2B	X	0	1.5
29	MP2B	Z	52.686	1.5
30	MP2B	Mx	.023	1.5
31	MP2C	X	0	1.5
32	MP2C	Z	46.874	1.5
33	MP2C	Mx	-.023	1.5
34	MP3A	X	0	1.5
35	MP3A	Z	70.123	1.5
36	MP3A	Mx	0	1.5
37	MP3B	X	0	1.5
38	MP3B	Z	46.007	1.5
39	MP3B	Mx	.02	1.5
40	MP3C	X	0	1.5
41	MP3C	Z	37.968	1.5
42	MP3C	Mx	-.019	1.5
43	MP1B	X	0	.5
44	MP1B	Z	90.771	.5
45	MP1B	Mx	-.039	.5
46	MP1B	X	0	5.5
47	MP1B	Z	90.771	5.5
48	MP1B	Mx	-.039	5.5
49	MP1C	X	0	1.5
50	MP1C	Z	52.364	1.5
51	MP1C	Mx	.026	1.5
52	MP1C	X	0	4.5
53	MP1C	Z	52.364	4.5
54	MP1C	Mx	.026	4.5
55	MP1A	X	0	.5
56	MP1A	Z	107.997	.5
57	MP1A	Mx	0	.5
58	MP1A	X	0	5.5
59	MP1A	Z	107.997	5.5
60	MP1A	Mx	0	5.5
61	MP3A	X	0	.5
62	MP3A	Z	152.996	.5
63	MP3A	Mx	.089	.5
64	MP3A	X	0	5.5
65	MP3A	Z	152.996	5.5
66	MP3A	Mx	.089	5.5
67	MP3B	X	0	.5
68	MP3B	Z	114.132	.5
69	MP3B	Mx	-.083	.5
70	MP3B	X	0	5.5
71	MP3B	Z	114.132	5.5
72	MP3B	Mx	-.083	5.5
73	MP3C	X	0	.5
74	MP3C	Z	101.177	.5
75	MP3C	Mx	.051	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP3C	X	0	5.5
77	MP3C	Z	101.177	5.5
78	MP3C	Mx	.051	5.5
79	MP3A	X	0	.5
80	MP3A	Z	152.996	.5
81	MP3A	Mx	-.089	.5
82	MP3A	X	0	5.5
83	MP3A	Z	152.996	5.5
84	MP3A	Mx	-.089	5.5
85	MP3B	X	0	.5
86	MP3B	Z	114.132	.5
87	MP3B	Mx	-.016	.5
88	MP3B	X	0	5.5
89	MP3B	Z	114.132	5.5
90	MP3B	Mx	-.016	5.5
91	MP3C	X	0	.5
92	MP3C	Z	101.177	.5
93	MP3C	Mx	.051	.5
94	MP3C	X	0	5.5
95	MP3C	Z	101.177	5.5
96	MP3C	Mx	.051	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-37.359	2
2	MP4A	Z	64.707	2
3	MP4A	Mx	.019	2
4	MP4A	X	-37.359	4
5	MP4A	Z	64.707	4
6	MP4A	Mx	.019	4
7	MP4B	X	-17.25	2
8	MP4B	Z	29.878	2
9	MP4B	Mx	-.017	2
10	MP4B	X	-17.25	4
11	MP4B	Z	29.878	4
12	MP4B	Mx	-.017	4
13	MP4C	X	-23.953	2
14	MP4C	Z	41.487	2
15	MP4C	Mx	.021	2
16	MP4C	X	-23.953	4
17	MP4C	Z	41.487	4
18	MP4C	Mx	.021	4
19	MP1A	X	-65.055	1
20	MP1A	Z	112.678	1
21	MP1A	Mx	-.033	1
22	MP1B	X	-47.037	1
23	MP1B	Z	81.47	1
24	MP1B	Mx	.047	1
25	MP2A	X	-32.155	1.5
26	MP2A	Z	55.695	1.5
27	MP2A	Mx	-.016	1.5
28	MP2B	X	-23.437	1.5
29	MP2B	Z	40.594	1.5
30	MP2B	Mx	.023	1.5
31	MP2C	X	-26.343	1.5
32	MP2C	Z	45.628	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	-.023	1.5
34	MP3A	X	-31.042	1.5
35	MP3A	Z	53.767	1.5
36	MP3A	Mx	-.016	1.5
37	MP3B	X	-18.984	1.5
38	MP3B	Z	32.881	1.5
39	MP3B	Mx	.019	1.5
40	MP3C	X	-23.003	1.5
41	MP3C	Z	39.843	1.5
42	MP3C	Mx	-.02	1.5
43	MP1B	X	-37.827	.5
44	MP1B	Z	65.519	.5
45	MP1B	Mx	-.038	.5
46	MP1B	X	-37.827	5.5
47	MP1B	Z	65.519	5.5
48	MP1B	Mx	-.038	5.5
49	MP1C	X	-27.98	1.5
50	MP1C	Z	48.463	1.5
51	MP1C	Mx	.024	1.5
52	MP1C	X	-27.98	4.5
53	MP1C	Z	48.463	4.5
54	MP1C	Mx	.024	4.5
55	MP1A	X	-51.188	.5
56	MP1A	Z	88.66	.5
57	MP1A	Mx	.026	.5
58	MP1A	X	-51.188	5.5
59	MP1A	Z	88.66	5.5
60	MP1A	Mx	.026	5.5
61	MP3A	X	-70.021	.5
62	MP3A	Z	121.279	.5
63	MP3A	Mx	.106	.5
64	MP3A	X	-70.021	5.5
65	MP3A	Z	121.279	5.5
66	MP3A	Mx	.106	5.5
67	MP3B	X	-50.589	.5
68	MP3B	Z	87.622	.5
69	MP3B	Mx	-.051	.5
70	MP3B	X	-50.589	5.5
71	MP3B	Z	87.622	5.5
72	MP3B	Mx	-.051	5.5
73	MP3C	X	-57.066	.5
74	MP3C	Z	98.841	.5
75	MP3C	Mx	.016	.5
76	MP3C	X	-57.066	5.5
77	MP3C	Z	98.841	5.5
78	MP3C	Mx	.016	5.5
79	MP3A	X	-70.021	.5
80	MP3A	Z	121.279	.5
81	MP3A	Mx	-.036	.5
82	MP3A	X	-70.021	5.5
83	MP3A	Z	121.279	5.5
84	MP3A	Mx	-.036	5.5
85	MP3B	X	-50.589	.5
86	MP3B	Z	87.622	.5
87	MP3B	Mx	-.051	.5
88	MP3B	X	-50.589	5.5
89	MP3B	Z	87.622	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP3B	Mx	-.051	5.5
91	MP3C	X	-57.066	.5
92	MP3C	Z	98.841	.5
93	MP3C	Mx	.083	.5
94	MP3C	X	-57.066	5.5
95	MP3C	Z	98.841	5.5
96	MP3C	Mx	.083	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-41.487	2
2	MP4A	Z	23.953	2
3	MP4A	Mx	.021	2
4	MP4A	X	-41.487	4
5	MP4A	Z	23.953	4
6	MP4A	Mx	.021	4
7	MP4B	X	-41.487	2
8	MP4B	Z	23.953	2
9	MP4B	Mx	-.021	2
10	MP4B	X	-41.487	4
11	MP4B	Z	23.953	4
12	MP4B	Mx	-.021	4
13	MP4C	X	-64.707	2
14	MP4C	Z	37.359	2
15	MP4C	Mx	.019	2
16	MP4C	X	-64.707	4
17	MP4C	Z	37.359	4
18	MP4C	Mx	.019	4
19	MP1A	X	-91.872	1
20	MP1A	Z	53.043	1
21	MP1A	Mx	-.046	1
22	MP1B	X	-91.872	1
23	MP1B	Z	53.043	1
24	MP1B	Mx	.046	1
25	MP2A	X	-45.628	1.5
26	MP2A	Z	26.343	1.5
27	MP2A	Mx	-.023	1.5
28	MP2B	X	-45.628	1.5
29	MP2B	Z	26.343	1.5
30	MP2B	Mx	.023	1.5
31	MP2C	X	-55.695	1.5
32	MP2C	Z	32.155	1.5
33	MP2C	Mx	-.016	1.5
34	MP3A	X	-39.843	1.5
35	MP3A	Z	23.003	1.5
36	MP3A	Mx	-.02	1.5
37	MP3B	X	-39.843	1.5
38	MP3B	Z	23.003	1.5
39	MP3B	Mx	.02	1.5
40	MP3C	X	-53.767	1.5
41	MP3C	Z	31.042	1.5
42	MP3C	Mx	-.016	1.5
43	MP1B	X	-78.61	.5
44	MP1B	Z	45.386	.5
45	MP1B	Mx	-.039	.5
46	MP1B	X	-78.61	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP1B	Z	45.386	5.5
48	MP1B	Mx	-.039	5.5
49	MP1C	X	-54.691	1.5
50	MP1C	Z	31.576	1.5
51	MP1C	Mx	.016	1.5
52	MP1C	X	-54.691	4.5
53	MP1C	Z	31.576	4.5
54	MP1C	Mx	.016	4.5
55	MP1A	X	-78.924	.5
56	MP1A	Z	45.567	.5
57	MP1A	Mx	.039	.5
58	MP1A	X	-78.924	5.5
59	MP1A	Z	45.567	5.5
60	MP1A	Mx	.039	5.5
61	MP3A	X	-98.841	.5
62	MP3A	Z	57.066	.5
63	MP3A	Mx	.083	.5
64	MP3A	X	-98.841	5.5
65	MP3A	Z	57.066	5.5
66	MP3A	Mx	.083	5.5
67	MP3B	X	-98.841	.5
68	MP3B	Z	57.066	.5
69	MP3B	Mx	-.016	.5
70	MP3B	X	-98.841	5.5
71	MP3B	Z	57.066	5.5
72	MP3B	Mx	-.016	5.5
73	MP3C	X	-121.279	.5
74	MP3C	Z	70.021	.5
75	MP3C	Mx	-.036	.5
76	MP3C	X	-121.279	5.5
77	MP3C	Z	70.021	5.5
78	MP3C	Mx	-.036	5.5
79	MP3A	X	-98.841	.5
80	MP3A	Z	57.066	.5
81	MP3A	Mx	.016	.5
82	MP3A	X	-98.841	5.5
83	MP3A	Z	57.066	5.5
84	MP3A	Mx	.016	5.5
85	MP3B	X	-98.841	.5
86	MP3B	Z	57.066	.5
87	MP3B	Mx	-.083	.5
88	MP3B	X	-98.841	5.5
89	MP3B	Z	57.066	5.5
90	MP3B	Mx	-.083	5.5
91	MP3C	X	-121.279	.5
92	MP3C	Z	70.021	.5
93	MP3C	Mx	.106	.5
94	MP3C	X	-121.279	5.5
95	MP3C	Z	70.021	5.5
96	MP3C	Mx	.106	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-34.5	2
2	MP4A	Z	0	2
3	MP4A	Mx	.017	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP4A	X	-34.5	4
5	MP4A	Z	0	4
6	MP4A	Mx	.017	4
7	MP4B	X	-74.717	2
8	MP4B	Z	0	2
9	MP4B	Mx	-.019	2
10	MP4B	X	-74.717	4
11	MP4B	Z	0	4
12	MP4B	Mx	-.019	4
13	MP4C	X	-88.123	2
14	MP4C	Z	0	2
15	MP4C	Mx	0	2
16	MP4C	X	-88.123	4
17	MP4C	Z	0	4
18	MP4C	Mx	0	4
19	MP1A	X	-94.073	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.047	1
22	MP1B	X	-130.109	1
23	MP1B	Z	0	1
24	MP1B	Mx	.033	1
25	MP2A	X	-46.874	1.5
26	MP2A	Z	0	1.5
27	MP2A	Mx	-.023	1.5
28	MP2B	X	-64.311	1.5
29	MP2B	Z	0	1.5
30	MP2B	Mx	.016	1.5
31	MP2C	X	-70.123	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	0	1.5
34	MP3A	X	-37.968	1.5
35	MP3A	Z	0	1.5
36	MP3A	Mx	-.019	1.5
37	MP3B	X	-62.084	1.5
38	MP3B	Z	0	1.5
39	MP3B	Mx	.016	1.5
40	MP3C	X	-70.123	1.5
41	MP3C	Z	0	1.5
42	MP3C	Mx	0	1.5
43	MP1B	X	-121.005	.5
44	MP1B	Z	0	.5
45	MP1B	Mx	-.03	.5
46	MP1B	X	-121.005	5.5
47	MP1B	Z	0	5.5
48	MP1B	Mx	-.03	5.5
49	MP1C	X	-66.748	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	-66.748	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	0	4.5
55	MP1A	X	-85.512	.5
56	MP1A	Z	0	.5
57	MP1A	Mx	.043	.5
58	MP1A	X	-85.512	5.5
59	MP1A	Z	0	5.5
60	MP1A	Mx	.043	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP3A	X	-101.177	.5
62	MP3A	Z	0	.5
63	MP3A	Mx	.051	.5
64	MP3A	X	-101.177	5.5
65	MP3A	Z	0	5.5
66	MP3A	Mx	.051	5.5
67	MP3B	X	-140.041	.5
68	MP3B	Z	0	.5
69	MP3B	Mx	.036	.5
70	MP3B	X	-140.041	5.5
71	MP3B	Z	0	5.5
72	MP3B	Mx	.036	5.5
73	MP3C	X	-152.996	.5
74	MP3C	Z	0	.5
75	MP3C	Mx	-.089	.5
76	MP3C	X	-152.996	5.5
77	MP3C	Z	0	5.5
78	MP3C	Mx	-.089	5.5
79	MP3A	X	-101.177	.5
80	MP3A	Z	0	.5
81	MP3A	Mx	.051	.5
82	MP3A	X	-101.177	5.5
83	MP3A	Z	0	5.5
84	MP3A	Mx	.051	5.5
85	MP3B	X	-140.041	.5
86	MP3B	Z	0	.5
87	MP3B	Mx	-.106	.5
88	MP3B	X	-140.041	5.5
89	MP3B	Z	0	5.5
90	MP3B	Mx	-.106	5.5
91	MP3C	X	-152.996	.5
92	MP3C	Z	0	.5
93	MP3C	Mx	.089	.5
94	MP3C	X	-152.996	5.5
95	MP3C	Z	0	5.5
96	MP3C	Mx	.089	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-41.487	2
2	MP4A	Z	-23.953	2
3	MP4A	Mx	.021	2
4	MP4A	X	-41.487	4
5	MP4A	Z	-23.953	4
6	MP4A	Mx	.021	4
7	MP4B	X	-76.317	2
8	MP4B	Z	-44.061	2
9	MP4B	Mx	0	2
10	MP4B	X	-76.317	4
11	MP4B	Z	-44.061	4
12	MP4B	Mx	0	4
13	MP4C	X	-64.707	2
14	MP4C	Z	-37.359	2
15	MP4C	Mx	-.019	2
16	MP4C	X	-64.707	4
17	MP4C	Z	-37.359	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4C	Mx	-.019	4
19	MP1A	X	-91.872	1
20	MP1A	Z	-53.043	1
21	MP1A	Mx	-.046	1
22	MP1B	X	-123.081	1
23	MP1B	Z	-71.061	1
24	MP1B	Mx	0	1
25	MP2A	X	-45.628	1.5
26	MP2A	Z	-26.343	1.5
27	MP2A	Mx	-.023	1.5
28	MP2B	X	-60.728	1.5
29	MP2B	Z	-35.062	1.5
30	MP2B	Mx	0	1.5
31	MP2C	X	-55.695	1.5
32	MP2C	Z	-32.155	1.5
33	MP2C	Mx	.016	1.5
34	MP3A	X	-39.843	1.5
35	MP3A	Z	-23.003	1.5
36	MP3A	Mx	-.02	1.5
37	MP3B	X	-60.728	1.5
38	MP3B	Z	-35.062	1.5
39	MP3B	Mx	0	1.5
40	MP3C	X	-53.767	1.5
41	MP3C	Z	-31.042	1.5
42	MP3C	Mx	.016	1.5
43	MP1B	X	-117.885	.5
44	MP1B	Z	-68.061	.5
45	MP1B	Mx	0	.5
46	MP1B	X	-117.885	5.5
47	MP1B	Z	-68.061	5.5
48	MP1B	Mx	0	5.5
49	MP1C	X	-54.691	1.5
50	MP1C	Z	-31.576	1.5
51	MP1C	Mx	-.016	1.5
52	MP1C	X	-54.691	4.5
53	MP1C	Z	-31.576	4.5
54	MP1C	Mx	-.016	4.5
55	MP1A	X	-78.924	.5
56	MP1A	Z	-45.567	.5
57	MP1A	Mx	.039	.5
58	MP1A	X	-78.924	5.5
59	MP1A	Z	-45.567	5.5
60	MP1A	Mx	.039	5.5
61	MP3A	X	-98.841	.5
62	MP3A	Z	-57.066	.5
63	MP3A	Mx	.016	.5
64	MP3A	X	-98.841	5.5
65	MP3A	Z	-57.066	5.5
66	MP3A	Mx	.016	5.5
67	MP3B	X	-132.499	.5
68	MP3B	Z	-76.498	.5
69	MP3B	Mx	.089	.5
70	MP3B	X	-132.499	5.5
71	MP3B	Z	-76.498	5.5
72	MP3B	Mx	.089	5.5
73	MP3C	X	-121.279	.5
74	MP3C	Z	-70.021	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP3C	Mx	-.106	.5
76	MP3C	X	-121.279	5.5
77	MP3C	Z	-70.021	5.5
78	MP3C	Mx	-.106	5.5
79	MP3A	X	-98.841	.5
80	MP3A	Z	-57.066	.5
81	MP3A	Mx	.083	.5
82	MP3A	X	-98.841	5.5
83	MP3A	Z	-57.066	5.5
84	MP3A	Mx	.083	5.5
85	MP3B	X	-132.499	.5
86	MP3B	Z	-76.498	.5
87	MP3B	Mx	-.089	.5
88	MP3B	X	-132.499	5.5
89	MP3B	Z	-76.498	5.5
90	MP3B	Mx	-.089	5.5
91	MP3C	X	-121.279	.5
92	MP3C	Z	-70.021	.5
93	MP3C	Mx	.036	.5
94	MP3C	X	-121.279	5.5
95	MP3C	Z	-70.021	5.5
96	MP3C	Mx	.036	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-37.359	2
2	MP4A	Z	-64.707	2
3	MP4A	Mx	.019	2
4	MP4A	X	-37.359	4
5	MP4A	Z	-64.707	4
6	MP4A	Mx	.019	4
7	MP4B	X	-37.359	2
8	MP4B	Z	-64.707	2
9	MP4B	Mx	.019	2
10	MP4B	X	-37.359	4
11	MP4B	Z	-64.707	4
12	MP4B	Mx	.019	4
13	MP4C	X	-23.953	2
14	MP4C	Z	-41.487	2
15	MP4C	Mx	-.021	2
16	MP4C	X	-23.953	4
17	MP4C	Z	-41.487	4
18	MP4C	Mx	-.021	4
19	MP1A	X	-65.055	1
20	MP1A	Z	-112.678	1
21	MP1A	Mx	-.033	1
22	MP1B	X	-65.055	1
23	MP1B	Z	-112.678	1
24	MP1B	Mx	-.033	1
25	MP2A	X	-32.155	1.5
26	MP2A	Z	-55.695	1.5
27	MP2A	Mx	-.016	1.5
28	MP2B	X	-32.155	1.5
29	MP2B	Z	-55.695	1.5
30	MP2B	Mx	-.016	1.5
31	MP2C	X	-26.343	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP2C	Z	-45.628	1.5
33	MP2C	Mx	.023	1.5
34	MP3A	X	-31.042	1.5
35	MP3A	Z	-53.767	1.5
36	MP3A	Mx	-.016	1.5
37	MP3B	X	-31.042	1.5
38	MP3B	Z	-53.767	1.5
39	MP3B	Mx	-.016	1.5
40	MP3C	X	-23.003	1.5
41	MP3C	Z	-39.843	1.5
42	MP3C	Mx	.02	1.5
43	MP1B	X	-60.502	.5
44	MP1B	Z	-104.793	.5
45	MP1B	Mx	.03	.5
46	MP1B	X	-60.502	5.5
47	MP1B	Z	-104.793	5.5
48	MP1B	Mx	.03	5.5
49	MP1C	X	-27.98	1.5
50	MP1C	Z	-48.463	1.5
51	MP1C	Mx	-.024	1.5
52	MP1C	X	-27.98	4.5
53	MP1C	Z	-48.463	4.5
54	MP1C	Mx	-.024	4.5
55	MP1A	X	-51.188	.5
56	MP1A	Z	-88.66	.5
57	MP1A	Mx	.026	.5
58	MP1A	X	-51.188	5.5
59	MP1A	Z	-88.66	5.5
60	MP1A	Mx	.026	5.5
61	MP3A	X	-70.021	.5
62	MP3A	Z	-121.279	.5
63	MP3A	Mx	-.036	.5
64	MP3A	X	-70.021	5.5
65	MP3A	Z	-121.279	5.5
66	MP3A	Mx	-.036	5.5
67	MP3B	X	-70.021	.5
68	MP3B	Z	-121.279	.5
69	MP3B	Mx	.106	.5
70	MP3B	X	-70.021	5.5
71	MP3B	Z	-121.279	5.5
72	MP3B	Mx	.106	5.5
73	MP3C	X	-57.066	.5
74	MP3C	Z	-98.841	.5
75	MP3C	Mx	-.083	.5
76	MP3C	X	-57.066	5.5
77	MP3C	Z	-98.841	5.5
78	MP3C	Mx	-.083	5.5
79	MP3A	X	-70.021	.5
80	MP3A	Z	-121.279	.5
81	MP3A	Mx	.106	.5
82	MP3A	X	-70.021	5.5
83	MP3A	Z	-121.279	5.5
84	MP3A	Mx	.106	5.5
85	MP3B	X	-70.021	.5
86	MP3B	Z	-121.279	.5
87	MP3B	Mx	-.036	.5
88	MP3B	X	-70.021	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP3B	Z	-121.279	5.5
90	MP3B	Mx	-.036	5.5
91	MP3C	X	-57.066	.5
92	MP3C	Z	-98.841	.5
93	MP3C	Mx	-.016	.5
94	MP3C	X	-57.066	5.5
95	MP3C	Z	-98.841	5.5
96	MP3C	Mx	-.016	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2
2	MP4A	Z	-19.517	2
3	MP4A	Mx	0	2
4	MP4A	X	0	4
5	MP4A	Z	-19.517	4
6	MP4A	Mx	0	4
7	MP4B	X	0	2
8	MP4B	Z	-11.359	2
9	MP4B	Mx	.005	2
10	MP4B	X	0	4
11	MP4B	Z	-11.359	4
12	MP4B	Mx	.005	4
13	MP4C	X	0	2
14	MP4C	Z	-8.64	2
15	MP4C	Mx	-.004	2
16	MP4C	X	0	4
17	MP4C	Z	-8.64	4
18	MP4C	Mx	-.004	4
19	MP1A	X	0	1
20	MP1A	Z	-31.814	1
21	MP1A	Mx	0	1
22	MP1B	X	0	1
23	MP1B	Z	-24.557	1
24	MP1B	Mx	-.011	1
25	MP2A	X	0	1.5
26	MP2A	Z	-16.869	1.5
27	MP2A	Mx	0	1.5
28	MP2B	X	0	1.5
29	MP2B	Z	-13.176	1.5
30	MP2B	Mx	-.006	1.5
31	MP2C	X	0	1.5
32	MP2C	Z	-11.945	1.5
33	MP2C	Mx	.006	1.5
34	MP3A	X	0	1.5
35	MP3A	Z	-16.869	1.5
36	MP3A	Mx	0	1.5
37	MP3B	X	0	1.5
38	MP3B	Z	-11.772	1.5
39	MP3B	Mx	-.005	1.5
40	MP3C	X	0	1.5
41	MP3C	Z	-10.073	1.5
42	MP3C	Mx	.005	1.5
43	MP1B	X	0	.5
44	MP1B	Z	-20.793	.5
45	MP1B	Mx	.009	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP1B	X	0	5.5
47	MP1B	Z	-20.793	5.5
48	MP1B	Mx	.009	5.5
49	MP1C	X	0	1.5
50	MP1C	Z	-12.581	1.5
51	MP1C	Mx	-.006	1.5
52	MP1C	X	0	4.5
53	MP1C	Z	-12.581	4.5
54	MP1C	Mx	-.006	4.5
55	MP1A	X	0	.5
56	MP1A	Z	-24.257	.5
57	MP1A	Mx	0	.5
58	MP1A	X	0	5.5
59	MP1A	Z	-24.257	5.5
60	MP1A	Mx	0	5.5
61	MP3A	X	0	.5
62	MP3A	Z	-32.784	.5
63	MP3A	Mx	-.019	.5
64	MP3A	X	0	5.5
65	MP3A	Z	-32.784	5.5
66	MP3A	Mx	-.019	5.5
67	MP3B	X	0	.5
68	MP3B	Z	-25.459	.5
69	MP3B	Mx	.018	.5
70	MP3B	X	0	5.5
71	MP3B	Z	-25.459	5.5
72	MP3B	Mx	.018	5.5
73	MP3C	X	0	.5
74	MP3C	Z	-23.017	.5
75	MP3C	Mx	-.012	.5
76	MP3C	X	0	5.5
77	MP3C	Z	-23.017	5.5
78	MP3C	Mx	-.012	5.5
79	MP3A	X	0	.5
80	MP3A	Z	-32.784	.5
81	MP3A	Mx	.019	.5
82	MP3A	X	0	5.5
83	MP3A	Z	-32.784	5.5
84	MP3A	Mx	.019	5.5
85	MP3B	X	0	.5
86	MP3B	Z	-25.459	.5
87	MP3B	Mx	.004	.5
88	MP3B	X	0	5.5
89	MP3B	Z	-25.459	5.5
90	MP3B	Mx	.004	5.5
91	MP3C	X	0	.5
92	MP3C	Z	-23.017	.5
93	MP3C	Mx	-.012	.5
94	MP3C	X	0	5.5
95	MP3C	Z	-23.017	5.5
96	MP3C	Mx	-.012	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	8.399	2
2	MP4A	Z	-14.547	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP4A	Mx	-.004	2
4	MP4A	X	8.399	4
5	MP4A	Z	-14.547	4
6	MP4A	Mx	-.004	4
7	MP4B	X	4.32	2
8	MP4B	Z	-7.482	2
9	MP4B	Mx	.004	2
10	MP4B	X	4.32	4
11	MP4B	Z	-7.482	4
12	MP4B	Mx	.004	4
13	MP4C	X	5.679	2
14	MP4C	Z	-9.837	2
15	MP4C	Mx	-.005	2
16	MP4C	X	5.679	4
17	MP4C	Z	-9.837	4
18	MP4C	Mx	-.005	4
19	MP1A	X	14.698	1
20	MP1A	Z	-25.457	1
21	MP1A	Mx	.007	1
22	MP1B	X	11.069	1
23	MP1B	Z	-19.172	1
24	MP1B	Mx	-.011	1
25	MP2A	X	7.819	1.5
26	MP2A	Z	-13.543	1.5
27	MP2A	Mx	.004	1.5
28	MP2B	X	5.972	1.5
29	MP2B	Z	-10.344	1.5
30	MP2B	Mx	-.006	1.5
31	MP2C	X	6.588	1.5
32	MP2C	Z	-11.411	1.5
33	MP2C	Mx	.006	1.5
34	MP3A	X	7.585	1.5
35	MP3A	Z	-13.138	1.5
36	MP3A	Mx	.004	1.5
37	MP3B	X	5.037	1.5
38	MP3B	Z	-8.724	1.5
39	MP3B	Mx	-.005	1.5
40	MP3C	X	5.886	1.5
41	MP3C	Z	-10.195	1.5
42	MP3C	Mx	.005	1.5
43	MP1B	X	8.957	.5
44	MP1B	Z	-15.514	.5
45	MP1B	Mx	.009	.5
46	MP1B	X	8.957	5.5
47	MP1B	Z	-15.514	5.5
48	MP1B	Mx	.009	5.5
49	MP1C	X	6.644	1.5
50	MP1C	Z	-11.507	1.5
51	MP1C	Mx	-.006	1.5
52	MP1C	X	6.644	4.5
53	MP1C	Z	-11.507	4.5
54	MP1C	Mx	-.006	4.5
55	MP1A	X	11.586	.5
56	MP1A	Z	-20.067	.5
57	MP1A	Mx	-.006	.5
58	MP1A	X	11.586	5.5
59	MP1A	Z	-20.067	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP1A	Mx	-.006	5.5
61	MP3A	X	15.171	.5
62	MP3A	Z	-26.277	.5
63	MP3A	Mx	-.023	.5
64	MP3A	X	15.171	5.5
65	MP3A	Z	-26.277	5.5
66	MP3A	Mx	-.023	5.5
67	MP3B	X	11.509	.5
68	MP3B	Z	-19.934	.5
69	MP3B	Mx	.012	.5
70	MP3B	X	11.509	5.5
71	MP3B	Z	-19.934	5.5
72	MP3B	Mx	.012	5.5
73	MP3C	X	12.73	.5
74	MP3C	Z	-22.048	.5
75	MP3C	Mx	-.004	.5
76	MP3C	X	12.73	5.5
77	MP3C	Z	-22.048	5.5
78	MP3C	Mx	-.004	5.5
79	MP3A	X	15.171	.5
80	MP3A	Z	-26.277	.5
81	MP3A	Mx	.008	.5
82	MP3A	X	15.171	5.5
83	MP3A	Z	-26.277	5.5
84	MP3A	Mx	.008	5.5
85	MP3B	X	11.509	.5
86	MP3B	Z	-19.934	.5
87	MP3B	Mx	.012	.5
88	MP3B	X	11.509	5.5
89	MP3B	Z	-19.934	5.5
90	MP3B	Mx	.012	5.5
91	MP3C	X	12.73	.5
92	MP3C	Z	-22.048	.5
93	MP3C	Mx	-.018	.5
94	MP3C	X	12.73	5.5
95	MP3C	Z	-22.048	5.5
96	MP3C	Mx	-.018	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	9.837	2
2	MP4A	Z	-5.679	2
3	MP4A	Mx	-.005	2
4	MP4A	X	9.837	4
5	MP4A	Z	-5.679	4
6	MP4A	Mx	-.005	4
7	MP4B	X	9.837	2
8	MP4B	Z	-5.679	2
9	MP4B	Mx	.005	2
10	MP4B	X	9.837	4
11	MP4B	Z	-5.679	4
12	MP4B	Mx	.005	4
13	MP4C	X	14.547	2
14	MP4C	Z	-8.399	2
15	MP4C	Mx	-.004	2
16	MP4C	X	14.547	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP4C	Z	-8.399	4
18	MP4C	Mx	-.004	4
19	MP1A	X	21.267	1
20	MP1A	Z	-12.279	1
21	MP1A	Mx	.011	1
22	MP1B	X	21.267	1
23	MP1B	Z	-12.279	1
24	MP1B	Mx	-.011	1
25	MP2A	X	11.411	1.5
26	MP2A	Z	-6.588	1.5
27	MP2A	Mx	.006	1.5
28	MP2B	X	11.411	1.5
29	MP2B	Z	-6.588	1.5
30	MP2B	Mx	-.006	1.5
31	MP2C	X	13.543	1.5
32	MP2C	Z	-7.819	1.5
33	MP2C	Mx	.004	1.5
34	MP3A	X	10.195	1.5
35	MP3A	Z	-5.886	1.5
36	MP3A	Mx	.005	1.5
37	MP3B	X	10.195	1.5
38	MP3B	Z	-5.886	1.5
39	MP3B	Mx	-.005	1.5
40	MP3C	X	13.138	1.5
41	MP3C	Z	-7.585	1.5
42	MP3C	Mx	.004	1.5
43	MP1B	X	18.007	.5
44	MP1B	Z	-10.397	.5
45	MP1B	Mx	.009	.5
46	MP1B	X	18.007	5.5
47	MP1B	Z	-10.397	5.5
48	MP1B	Mx	.009	5.5
49	MP1C	X	12.73	1.5
50	MP1C	Z	-7.35	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	12.73	4.5
53	MP1C	Z	-7.35	4.5
54	MP1C	Mx	-.004	4.5
55	MP1A	X	18.186	.5
56	MP1A	Z	-10.5	.5
57	MP1A	Mx	-.009	.5
58	MP1A	X	18.186	5.5
59	MP1A	Z	-10.5	5.5
60	MP1A	Mx	-.009	5.5
61	MP3A	X	22.048	.5
62	MP3A	Z	-12.73	.5
63	MP3A	Mx	-.018	.5
64	MP3A	X	22.048	5.5
65	MP3A	Z	-12.73	5.5
66	MP3A	Mx	-.018	5.5
67	MP3B	X	22.048	.5
68	MP3B	Z	-12.73	.5
69	MP3B	Mx	.004	.5
70	MP3B	X	22.048	5.5
71	MP3B	Z	-12.73	5.5
72	MP3B	Mx	.004	5.5
73	MP3C	X	26.277	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP3C	Z	-15.171	.5
75	MP3C	Mx	.008	.5
76	MP3C	X	26.277	5.5
77	MP3C	Z	-15.171	5.5
78	MP3C	Mx	.008	5.5
79	MP3A	X	22.048	.5
80	MP3A	Z	-12.73	.5
81	MP3A	Mx	-.004	.5
82	MP3A	X	22.048	5.5
83	MP3A	Z	-12.73	5.5
84	MP3A	Mx	-.004	5.5
85	MP3B	X	22.048	.5
86	MP3B	Z	-12.73	.5
87	MP3B	Mx	.018	.5
88	MP3B	X	22.048	5.5
89	MP3B	Z	-12.73	5.5
90	MP3B	Mx	.018	5.5
91	MP3C	X	26.277	.5
92	MP3C	Z	-15.171	.5
93	MP3C	Mx	-.023	.5
94	MP3C	X	26.277	5.5
95	MP3C	Z	-15.171	5.5
96	MP3C	Mx	-.023	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	8.64	2
2	MP4A	Z	0	2
3	MP4A	Mx	-.004	2
4	MP4A	X	8.64	4
5	MP4A	Z	0	4
6	MP4A	Mx	-.004	4
7	MP4B	X	16.798	2
8	MP4B	Z	0	2
9	MP4B	Mx	.004	2
10	MP4B	X	16.798	4
11	MP4B	Z	0	4
12	MP4B	Mx	.004	4
13	MP4C	X	19.517	2
14	MP4C	Z	0	2
15	MP4C	Mx	0	2
16	MP4C	X	19.517	4
17	MP4C	Z	0	4
18	MP4C	Mx	0	4
19	MP1A	X	22.138	1
20	MP1A	Z	0	1
21	MP1A	Mx	.011	1
22	MP1B	X	29.395	1
23	MP1B	Z	0	1
24	MP1B	Mx	-.007	1
25	MP2A	X	11.945	1.5
26	MP2A	Z	0	1.5
27	MP2A	Mx	.006	1.5
28	MP2B	X	15.638	1.5
29	MP2B	Z	0	1.5
30	MP2B	Mx	-.004	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	16.869	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	0	1.5
34	MP3A	X	10.073	1.5
35	MP3A	Z	0	1.5
36	MP3A	Mx	.005	1.5
37	MP3B	X	15.17	1.5
38	MP3B	Z	0	1.5
39	MP3B	Mx	-.004	1.5
40	MP3C	X	16.869	1.5
41	MP3C	Z	0	1.5
42	MP3C	Mx	0	1.5
43	MP1B	X	26.551	.5
44	MP1B	Z	0	.5
45	MP1B	Mx	.007	.5
46	MP1B	X	26.551	5.5
47	MP1B	Z	0	5.5
48	MP1B	Mx	.007	5.5
49	MP1C	X	15.406	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	15.406	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	0	4.5
55	MP1A	X	19.914	.5
56	MP1A	Z	0	.5
57	MP1A	Mx	-.01	.5
58	MP1A	X	19.914	5.5
59	MP1A	Z	0	5.5
60	MP1A	Mx	-.01	5.5
61	MP3A	X	23.017	.5
62	MP3A	Z	0	.5
63	MP3A	Mx	-.012	.5
64	MP3A	X	23.017	5.5
65	MP3A	Z	0	5.5
66	MP3A	Mx	-.012	5.5
67	MP3B	X	30.343	.5
68	MP3B	Z	0	.5
69	MP3B	Mx	-.008	.5
70	MP3B	X	30.343	5.5
71	MP3B	Z	0	5.5
72	MP3B	Mx	-.008	5.5
73	MP3C	X	32.784	.5
74	MP3C	Z	0	.5
75	MP3C	Mx	.019	.5
76	MP3C	X	32.784	5.5
77	MP3C	Z	0	5.5
78	MP3C	Mx	.019	5.5
79	MP3A	X	23.017	.5
80	MP3A	Z	0	.5
81	MP3A	Mx	-.012	.5
82	MP3A	X	23.017	5.5
83	MP3A	Z	0	5.5
84	MP3A	Mx	-.012	5.5
85	MP3B	X	30.343	.5
86	MP3B	Z	0	.5
87	MP3B	Mx	.023	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP3B	X	30.343	5.5
89	MP3B	Z	0	5.5
90	MP3B	Mx	.023	5.5
91	MP3C	X	32.784	.5
92	MP3C	Z	0	.5
93	MP3C	Mx	-.019	.5
94	MP3C	X	32.784	5.5
95	MP3C	Z	0	5.5
96	MP3C	Mx	-.019	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	9.837	2
2	MP4A	Z	5.679	2
3	MP4A	Mx	-.005	2
4	MP4A	X	9.837	4
5	MP4A	Z	5.679	4
6	MP4A	Mx	-.005	4
7	MP4B	X	16.902	2
8	MP4B	Z	9.758	2
9	MP4B	Mx	0	2
10	MP4B	X	16.902	4
11	MP4B	Z	9.758	4
12	MP4B	Mx	0	4
13	MP4C	X	14.547	2
14	MP4C	Z	8.399	2
15	MP4C	Mx	.004	2
16	MP4C	X	14.547	4
17	MP4C	Z	8.399	4
18	MP4C	Mx	.004	4
19	MP1A	X	21.267	1
20	MP1A	Z	12.279	1
21	MP1A	Mx	.011	1
22	MP1B	X	27.552	1
23	MP1B	Z	15.907	1
24	MP1B	Mx	0	1
25	MP2A	X	11.411	1.5
26	MP2A	Z	6.588	1.5
27	MP2A	Mx	.006	1.5
28	MP2B	X	14.609	1.5
29	MP2B	Z	8.435	1.5
30	MP2B	Mx	0	1.5
31	MP2C	X	13.543	1.5
32	MP2C	Z	7.819	1.5
33	MP2C	Mx	-.004	1.5
34	MP3A	X	10.195	1.5
35	MP3A	Z	5.886	1.5
36	MP3A	Mx	.005	1.5
37	MP3B	X	14.609	1.5
38	MP3B	Z	8.435	1.5
39	MP3B	Mx	0	1.5
40	MP3C	X	13.138	1.5
41	MP3C	Z	7.585	1.5
42	MP3C	Mx	-.004	1.5
43	MP1B	X	25.487	.5
44	MP1B	Z	14.715	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP1B	Mx	0	.5
46	MP1B	X	25.487	5.5
47	MP1B	Z	14.715	5.5
48	MP1B	Mx	0	5.5
49	MP1C	X	12.73	1.5
50	MP1C	Z	7.35	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	12.73	4.5
53	MP1C	Z	7.35	4.5
54	MP1C	Mx	.004	4.5
55	MP1A	X	18.186	.5
56	MP1A	Z	10.5	.5
57	MP1A	Mx	-.009	.5
58	MP1A	X	18.186	5.5
59	MP1A	Z	10.5	5.5
60	MP1A	Mx	-.009	5.5
61	MP3A	X	22.048	.5
62	MP3A	Z	12.73	.5
63	MP3A	Mx	-.004	.5
64	MP3A	X	22.048	5.5
65	MP3A	Z	12.73	5.5
66	MP3A	Mx	-.004	5.5
67	MP3B	X	28.392	.5
68	MP3B	Z	16.392	.5
69	MP3B	Mx	-.019	.5
70	MP3B	X	28.392	5.5
71	MP3B	Z	16.392	5.5
72	MP3B	Mx	-.019	5.5
73	MP3C	X	26.277	.5
74	MP3C	Z	15.171	.5
75	MP3C	Mx	.023	.5
76	MP3C	X	26.277	5.5
77	MP3C	Z	15.171	5.5
78	MP3C	Mx	.023	5.5
79	MP3A	X	22.048	.5
80	MP3A	Z	12.73	.5
81	MP3A	Mx	-.018	.5
82	MP3A	X	22.048	5.5
83	MP3A	Z	12.73	5.5
84	MP3A	Mx	-.018	5.5
85	MP3B	X	28.392	.5
86	MP3B	Z	16.392	.5
87	MP3B	Mx	.019	.5
88	MP3B	X	28.392	5.5
89	MP3B	Z	16.392	5.5
90	MP3B	Mx	.019	5.5
91	MP3C	X	26.277	.5
92	MP3C	Z	15.171	.5
93	MP3C	Mx	-.008	.5
94	MP3C	X	26.277	5.5
95	MP3C	Z	15.171	5.5
96	MP3C	Mx	-.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	8.399	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP4A	Z	14.547	2
3	MP4A	Mx	-.004	2
4	MP4A	X	8.399	4
5	MP4A	Z	14.547	4
6	MP4A	Mx	-.004	4
7	MP4B	X	8.399	2
8	MP4B	Z	14.547	2
9	MP4B	Mx	-.004	2
10	MP4B	X	8.399	4
11	MP4B	Z	14.547	4
12	MP4B	Mx	-.004	4
13	MP4C	X	5.679	2
14	MP4C	Z	9.837	2
15	MP4C	Mx	.005	2
16	MP4C	X	5.679	4
17	MP4C	Z	9.837	4
18	MP4C	Mx	.005	4
19	MP1A	X	14.698	1
20	MP1A	Z	25.457	1
21	MP1A	Mx	.007	1
22	MP1B	X	14.698	1
23	MP1B	Z	25.457	1
24	MP1B	Mx	.007	1
25	MP2A	X	7.819	1.5
26	MP2A	Z	13.543	1.5
27	MP2A	Mx	.004	1.5
28	MP2B	X	7.819	1.5
29	MP2B	Z	13.543	1.5
30	MP2B	Mx	.004	1.5
31	MP2C	X	6.588	1.5
32	MP2C	Z	11.411	1.5
33	MP2C	Mx	-.006	1.5
34	MP3A	X	7.585	1.5
35	MP3A	Z	13.138	1.5
36	MP3A	Mx	.004	1.5
37	MP3B	X	7.585	1.5
38	MP3B	Z	13.138	1.5
39	MP3B	Mx	.004	1.5
40	MP3C	X	5.886	1.5
41	MP3C	Z	10.195	1.5
42	MP3C	Mx	-.005	1.5
43	MP1B	X	13.276	.5
44	MP1B	Z	22.994	.5
45	MP1B	Mx	-.007	.5
46	MP1B	X	13.276	5.5
47	MP1B	Z	22.994	5.5
48	MP1B	Mx	-.007	5.5
49	MP1C	X	6.644	1.5
50	MP1C	Z	11.507	1.5
51	MP1C	Mx	.006	1.5
52	MP1C	X	6.644	4.5
53	MP1C	Z	11.507	4.5
54	MP1C	Mx	.006	4.5
55	MP1A	X	11.586	.5
56	MP1A	Z	20.067	.5
57	MP1A	Mx	-.006	.5
58	MP1A	X	11.586	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1A	Z	20.067	5.5
60	MP1A	Mx	-.006	5.5
61	MP3A	X	15.171	.5
62	MP3A	Z	26.277	.5
63	MP3A	Mx	.008	.5
64	MP3A	X	15.171	5.5
65	MP3A	Z	26.277	5.5
66	MP3A	Mx	.008	5.5
67	MP3B	X	15.171	.5
68	MP3B	Z	26.277	.5
69	MP3B	Mx	-.023	.5
70	MP3B	X	15.171	5.5
71	MP3B	Z	26.277	5.5
72	MP3B	Mx	-.023	5.5
73	MP3C	X	12.73	.5
74	MP3C	Z	22.048	.5
75	MP3C	Mx	.018	.5
76	MP3C	X	12.73	5.5
77	MP3C	Z	22.048	5.5
78	MP3C	Mx	.018	5.5
79	MP3A	X	15.171	.5
80	MP3A	Z	26.277	.5
81	MP3A	Mx	-.023	.5
82	MP3A	X	15.171	5.5
83	MP3A	Z	26.277	5.5
84	MP3A	Mx	-.023	5.5
85	MP3B	X	15.171	.5
86	MP3B	Z	26.277	.5
87	MP3B	Mx	.008	.5
88	MP3B	X	15.171	5.5
89	MP3B	Z	26.277	5.5
90	MP3B	Mx	.008	5.5
91	MP3C	X	12.73	.5
92	MP3C	Z	22.048	.5
93	MP3C	Mx	.004	.5
94	MP3C	X	12.73	5.5
95	MP3C	Z	22.048	5.5
96	MP3C	Mx	.004	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2
2	MP4A	Z	19.517	2
3	MP4A	Mx	0	2
4	MP4A	X	0	4
5	MP4A	Z	19.517	4
6	MP4A	Mx	0	4
7	MP4B	X	0	2
8	MP4B	Z	11.359	2
9	MP4B	Mx	-.005	2
10	MP4B	X	0	4
11	MP4B	Z	11.359	4
12	MP4B	Mx	-.005	4
13	MP4C	X	0	2
14	MP4C	Z	8.64	2
15	MP4C	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4C	X	0	4
17	MP4C	Z	8.64	4
18	MP4C	Mx	.004	4
19	MP1A	X	0	1
20	MP1A	Z	31.814	1
21	MP1A	Mx	0	1
22	MP1B	X	0	1
23	MP1B	Z	24.557	1
24	MP1B	Mx	.011	1
25	MP2A	X	0	1.5
26	MP2A	Z	16.869	1.5
27	MP2A	Mx	0	1.5
28	MP2B	X	0	1.5
29	MP2B	Z	13.176	1.5
30	MP2B	Mx	.006	1.5
31	MP2C	X	0	1.5
32	MP2C	Z	11.945	1.5
33	MP2C	Mx	-.006	1.5
34	MP3A	X	0	1.5
35	MP3A	Z	16.869	1.5
36	MP3A	Mx	0	1.5
37	MP3B	X	0	1.5
38	MP3B	Z	11.772	1.5
39	MP3B	Mx	.005	1.5
40	MP3C	X	0	1.5
41	MP3C	Z	10.073	1.5
42	MP3C	Mx	-.005	1.5
43	MP1B	X	0	.5
44	MP1B	Z	20.793	.5
45	MP1B	Mx	-.009	.5
46	MP1B	X	0	5.5
47	MP1B	Z	20.793	5.5
48	MP1B	Mx	-.009	5.5
49	MP1C	X	0	1.5
50	MP1C	Z	12.581	1.5
51	MP1C	Mx	.006	1.5
52	MP1C	X	0	4.5
53	MP1C	Z	12.581	4.5
54	MP1C	Mx	.006	4.5
55	MP1A	X	0	.5
56	MP1A	Z	24.257	.5
57	MP1A	Mx	0	.5
58	MP1A	X	0	5.5
59	MP1A	Z	24.257	5.5
60	MP1A	Mx	0	5.5
61	MP3A	X	0	.5
62	MP3A	Z	32.784	.5
63	MP3A	Mx	.019	.5
64	MP3A	X	0	5.5
65	MP3A	Z	32.784	5.5
66	MP3A	Mx	.019	5.5
67	MP3B	X	0	.5
68	MP3B	Z	25.459	.5
69	MP3B	Mx	-.018	.5
70	MP3B	X	0	5.5
71	MP3B	Z	25.459	5.5
72	MP3B	Mx	-.018	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3C	X	0	.5
74	MP3C	Z	23.017	.5
75	MP3C	Mx	.012	.5
76	MP3C	X	0	5.5
77	MP3C	Z	23.017	5.5
78	MP3C	Mx	.012	5.5
79	MP3A	X	0	.5
80	MP3A	Z	32.784	.5
81	MP3A	Mx	-.019	.5
82	MP3A	X	0	5.5
83	MP3A	Z	32.784	5.5
84	MP3A	Mx	-.019	5.5
85	MP3B	X	0	.5
86	MP3B	Z	25.459	.5
87	MP3B	Mx	-.004	.5
88	MP3B	X	0	5.5
89	MP3B	Z	25.459	5.5
90	MP3B	Mx	-.004	5.5
91	MP3C	X	0	.5
92	MP3C	Z	23.017	.5
93	MP3C	Mx	.012	.5
94	MP3C	X	0	5.5
95	MP3C	Z	23.017	5.5
96	MP3C	Mx	.012	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-8.399	2
2	MP4A	Z	14.547	2
3	MP4A	Mx	.004	2
4	MP4A	X	-8.399	4
5	MP4A	Z	14.547	4
6	MP4A	Mx	.004	4
7	MP4B	X	-4.32	2
8	MP4B	Z	7.482	2
9	MP4B	Mx	-.004	2
10	MP4B	X	-4.32	4
11	MP4B	Z	7.482	4
12	MP4B	Mx	-.004	4
13	MP4C	X	-5.679	2
14	MP4C	Z	9.837	2
15	MP4C	Mx	.005	2
16	MP4C	X	-5.679	4
17	MP4C	Z	9.837	4
18	MP4C	Mx	.005	4
19	MP1A	X	-14.698	1
20	MP1A	Z	25.457	1
21	MP1A	Mx	-.007	1
22	MP1B	X	-11.069	1
23	MP1B	Z	19.172	1
24	MP1B	Mx	.011	1
25	MP2A	X	-7.819	1.5
26	MP2A	Z	13.543	1.5
27	MP2A	Mx	-.004	1.5
28	MP2B	X	-5.972	1.5
29	MP2B	Z	10.344	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2B	Mx	.006	1.5
31	MP2C	X	-6.588	1.5
32	MP2C	Z	11.411	1.5
33	MP2C	Mx	-.006	1.5
34	MP3A	X	-7.585	1.5
35	MP3A	Z	13.138	1.5
36	MP3A	Mx	-.004	1.5
37	MP3B	X	-5.037	1.5
38	MP3B	Z	8.724	1.5
39	MP3B	Mx	.005	1.5
40	MP3C	X	-5.886	1.5
41	MP3C	Z	10.195	1.5
42	MP3C	Mx	-.005	1.5
43	MP1B	X	-8.957	.5
44	MP1B	Z	15.514	.5
45	MP1B	Mx	-.009	.5
46	MP1B	X	-8.957	5.5
47	MP1B	Z	15.514	5.5
48	MP1B	Mx	-.009	5.5
49	MP1C	X	-6.644	1.5
50	MP1C	Z	11.507	1.5
51	MP1C	Mx	.006	1.5
52	MP1C	X	-6.644	4.5
53	MP1C	Z	11.507	4.5
54	MP1C	Mx	.006	4.5
55	MP1A	X	-11.586	.5
56	MP1A	Z	20.067	.5
57	MP1A	Mx	.006	.5
58	MP1A	X	-11.586	5.5
59	MP1A	Z	20.067	5.5
60	MP1A	Mx	.006	5.5
61	MP3A	X	-15.171	.5
62	MP3A	Z	26.277	.5
63	MP3A	Mx	.023	.5
64	MP3A	X	-15.171	5.5
65	MP3A	Z	26.277	5.5
66	MP3A	Mx	.023	5.5
67	MP3B	X	-11.509	.5
68	MP3B	Z	19.934	.5
69	MP3B	Mx	-.012	.5
70	MP3B	X	-11.509	5.5
71	MP3B	Z	19.934	5.5
72	MP3B	Mx	-.012	5.5
73	MP3C	X	-12.73	.5
74	MP3C	Z	22.048	.5
75	MP3C	Mx	.004	.5
76	MP3C	X	-12.73	5.5
77	MP3C	Z	22.048	5.5
78	MP3C	Mx	.004	5.5
79	MP3A	X	-15.171	.5
80	MP3A	Z	26.277	.5
81	MP3A	Mx	-.008	.5
82	MP3A	X	-15.171	5.5
83	MP3A	Z	26.277	5.5
84	MP3A	Mx	-.008	5.5
85	MP3B	X	-11.509	.5
86	MP3B	Z	19.934	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP3B	Mx	-.012	.5
88	MP3B	X	-11.509	5.5
89	MP3B	Z	19.934	5.5
90	MP3B	Mx	-.012	5.5
91	MP3C	X	-12.73	.5
92	MP3C	Z	22.048	.5
93	MP3C	Mx	.018	.5
94	MP3C	X	-12.73	5.5
95	MP3C	Z	22.048	5.5
96	MP3C	Mx	.018	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-9.837	2
2	MP4A	Z	5.679	2
3	MP4A	Mx	.005	2
4	MP4A	X	-9.837	4
5	MP4A	Z	5.679	4
6	MP4A	Mx	.005	4
7	MP4B	X	-9.837	2
8	MP4B	Z	5.679	2
9	MP4B	Mx	-.005	2
10	MP4B	X	-9.837	4
11	MP4B	Z	5.679	4
12	MP4B	Mx	-.005	4
13	MP4C	X	-14.547	2
14	MP4C	Z	8.399	2
15	MP4C	Mx	.004	2
16	MP4C	X	-14.547	4
17	MP4C	Z	8.399	4
18	MP4C	Mx	.004	4
19	MP1A	X	-21.267	1
20	MP1A	Z	12.279	1
21	MP1A	Mx	-.011	1
22	MP1B	X	-21.267	1
23	MP1B	Z	12.279	1
24	MP1B	Mx	.011	1
25	MP2A	X	-11.411	1.5
26	MP2A	Z	6.588	1.5
27	MP2A	Mx	-.006	1.5
28	MP2B	X	-11.411	1.5
29	MP2B	Z	6.588	1.5
30	MP2B	Mx	.006	1.5
31	MP2C	X	-13.543	1.5
32	MP2C	Z	7.819	1.5
33	MP2C	Mx	-.004	1.5
34	MP3A	X	-10.195	1.5
35	MP3A	Z	5.886	1.5
36	MP3A	Mx	-.005	1.5
37	MP3B	X	-10.195	1.5
38	MP3B	Z	5.886	1.5
39	MP3B	Mx	.005	1.5
40	MP3C	X	-13.138	1.5
41	MP3C	Z	7.585	1.5
42	MP3C	Mx	-.004	1.5
43	MP1B	X	-18.007	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP1B	Z	10.397	.5
45	MP1B	Mx	-.009	.5
46	MP1B	X	-18.007	5.5
47	MP1B	Z	10.397	5.5
48	MP1B	Mx	-.009	5.5
49	MP1C	X	-12.73	1.5
50	MP1C	Z	7.35	1.5
51	MP1C	Mx	.004	1.5
52	MP1C	X	-12.73	4.5
53	MP1C	Z	7.35	4.5
54	MP1C	Mx	.004	4.5
55	MP1A	X	-18.186	.5
56	MP1A	Z	10.5	.5
57	MP1A	Mx	.009	.5
58	MP1A	X	-18.186	5.5
59	MP1A	Z	10.5	5.5
60	MP1A	Mx	.009	5.5
61	MP3A	X	-22.048	.5
62	MP3A	Z	12.73	.5
63	MP3A	Mx	.018	.5
64	MP3A	X	-22.048	5.5
65	MP3A	Z	12.73	5.5
66	MP3A	Mx	.018	5.5
67	MP3B	X	-22.048	.5
68	MP3B	Z	12.73	.5
69	MP3B	Mx	-.004	.5
70	MP3B	X	-22.048	5.5
71	MP3B	Z	12.73	5.5
72	MP3B	Mx	-.004	5.5
73	MP3C	X	-26.277	.5
74	MP3C	Z	15.171	.5
75	MP3C	Mx	-.008	.5
76	MP3C	X	-26.277	5.5
77	MP3C	Z	15.171	5.5
78	MP3C	Mx	-.008	5.5
79	MP3A	X	-22.048	.5
80	MP3A	Z	12.73	.5
81	MP3A	Mx	.004	.5
82	MP3A	X	-22.048	5.5
83	MP3A	Z	12.73	5.5
84	MP3A	Mx	.004	5.5
85	MP3B	X	-22.048	.5
86	MP3B	Z	12.73	.5
87	MP3B	Mx	-.018	.5
88	MP3B	X	-22.048	5.5
89	MP3B	Z	12.73	5.5
90	MP3B	Mx	-.018	5.5
91	MP3C	X	-26.277	.5
92	MP3C	Z	15.171	.5
93	MP3C	Mx	.023	.5
94	MP3C	X	-26.277	5.5
95	MP3C	Z	15.171	5.5
96	MP3C	Mx	.023	5.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-8.64	2
2	MP4A	Z	0	2
3	MP4A	Mx	.004	2
4	MP4A	X	-8.64	4
5	MP4A	Z	0	4
6	MP4A	Mx	.004	4
7	MP4B	X	-16.798	2
8	MP4B	Z	0	2
9	MP4B	Mx	-.004	2
10	MP4B	X	-16.798	4
11	MP4B	Z	0	4
12	MP4B	Mx	-.004	4
13	MP4C	X	-19.517	2
14	MP4C	Z	0	2
15	MP4C	Mx	0	2
16	MP4C	X	-19.517	4
17	MP4C	Z	0	4
18	MP4C	Mx	0	4
19	MP1A	X	-22.138	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.011	1
22	MP1B	X	-29.395	1
23	MP1B	Z	0	1
24	MP1B	Mx	.007	1
25	MP2A	X	-11.945	1.5
26	MP2A	Z	0	1.5
27	MP2A	Mx	-.006	1.5
28	MP2B	X	-15.638	1.5
29	MP2B	Z	0	1.5
30	MP2B	Mx	.004	1.5
31	MP2C	X	-16.869	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	0	1.5
34	MP3A	X	-10.073	1.5
35	MP3A	Z	0	1.5
36	MP3A	Mx	-.005	1.5
37	MP3B	X	-15.17	1.5
38	MP3B	Z	0	1.5
39	MP3B	Mx	.004	1.5
40	MP3C	X	-16.869	1.5
41	MP3C	Z	0	1.5
42	MP3C	Mx	0	1.5
43	MP1B	X	-26.551	.5
44	MP1B	Z	0	.5
45	MP1B	Mx	-.007	.5
46	MP1B	X	-26.551	5.5
47	MP1B	Z	0	5.5
48	MP1B	Mx	-.007	5.5
49	MP1C	X	-15.406	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	-15.406	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	0	4.5
55	MP1A	X	-19.914	.5
56	MP1A	Z	0	.5
57	MP1A	Mx	.01	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-19.914	5.5
59	MP1A	Z	0	5.5
60	MP1A	Mx	.01	5.5
61	MP3A	X	-23.017	.5
62	MP3A	Z	0	.5
63	MP3A	Mx	.012	.5
64	MP3A	X	-23.017	5.5
65	MP3A	Z	0	5.5
66	MP3A	Mx	.012	5.5
67	MP3B	X	-30.343	.5
68	MP3B	Z	0	.5
69	MP3B	Mx	.008	.5
70	MP3B	X	-30.343	5.5
71	MP3B	Z	0	5.5
72	MP3B	Mx	.008	5.5
73	MP3C	X	-32.784	.5
74	MP3C	Z	0	.5
75	MP3C	Mx	-.019	.5
76	MP3C	X	-32.784	5.5
77	MP3C	Z	0	5.5
78	MP3C	Mx	-.019	5.5
79	MP3A	X	-23.017	.5
80	MP3A	Z	0	.5
81	MP3A	Mx	.012	.5
82	MP3A	X	-23.017	5.5
83	MP3A	Z	0	5.5
84	MP3A	Mx	.012	5.5
85	MP3B	X	-30.343	.5
86	MP3B	Z	0	.5
87	MP3B	Mx	-.023	.5
88	MP3B	X	-30.343	5.5
89	MP3B	Z	0	5.5
90	MP3B	Mx	-.023	5.5
91	MP3C	X	-32.784	.5
92	MP3C	Z	0	.5
93	MP3C	Mx	.019	.5
94	MP3C	X	-32.784	5.5
95	MP3C	Z	0	5.5
96	MP3C	Mx	.019	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-9.837	2
2	MP4A	Z	-5.679	2
3	MP4A	Mx	.005	2
4	MP4A	X	-9.837	4
5	MP4A	Z	-5.679	4
6	MP4A	Mx	.005	4
7	MP4B	X	-16.902	2
8	MP4B	Z	-9.758	2
9	MP4B	Mx	0	2
10	MP4B	X	-16.902	4
11	MP4B	Z	-9.758	4
12	MP4B	Mx	0	4
13	MP4C	X	-14.547	2
14	MP4C	Z	-8.399	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP4C	Mx	-.004	2
16	MP4C	X	-14.547	4
17	MP4C	Z	-8.399	4
18	MP4C	Mx	-.004	4
19	MP1A	X	-21.267	1
20	MP1A	Z	-12.279	1
21	MP1A	Mx	-.011	1
22	MP1B	X	-27.552	1
23	MP1B	Z	-15.907	1
24	MP1B	Mx	0	1
25	MP2A	X	-11.411	1.5
26	MP2A	Z	-6.588	1.5
27	MP2A	Mx	-.006	1.5
28	MP2B	X	-14.609	1.5
29	MP2B	Z	-8.435	1.5
30	MP2B	Mx	0	1.5
31	MP2C	X	-13.543	1.5
32	MP2C	Z	-7.819	1.5
33	MP2C	Mx	.004	1.5
34	MP3A	X	-10.195	1.5
35	MP3A	Z	-5.886	1.5
36	MP3A	Mx	-.005	1.5
37	MP3B	X	-14.609	1.5
38	MP3B	Z	-8.435	1.5
39	MP3B	Mx	0	1.5
40	MP3C	X	-13.138	1.5
41	MP3C	Z	-7.585	1.5
42	MP3C	Mx	.004	1.5
43	MP1B	X	-25.487	.5
44	MP1B	Z	-14.715	.5
45	MP1B	Mx	0	.5
46	MP1B	X	-25.487	5.5
47	MP1B	Z	-14.715	5.5
48	MP1B	Mx	0	5.5
49	MP1C	X	-12.73	1.5
50	MP1C	Z	-7.35	1.5
51	MP1C	Mx	-.004	1.5
52	MP1C	X	-12.73	4.5
53	MP1C	Z	-7.35	4.5
54	MP1C	Mx	-.004	4.5
55	MP1A	X	-18.186	.5
56	MP1A	Z	-10.5	.5
57	MP1A	Mx	.009	.5
58	MP1A	X	-18.186	5.5
59	MP1A	Z	-10.5	5.5
60	MP1A	Mx	.009	5.5
61	MP3A	X	-22.048	.5
62	MP3A	Z	-12.73	.5
63	MP3A	Mx	.004	.5
64	MP3A	X	-22.048	5.5
65	MP3A	Z	-12.73	5.5
66	MP3A	Mx	.004	5.5
67	MP3B	X	-28.392	.5
68	MP3B	Z	-16.392	.5
69	MP3B	Mx	.019	.5
70	MP3B	X	-28.392	5.5
71	MP3B	Z	-16.392	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3B	Mx	.019	5.5
73	MP3C	X	-26.277	.5
74	MP3C	Z	-15.171	.5
75	MP3C	Mx	-.023	.5
76	MP3C	X	-26.277	5.5
77	MP3C	Z	-15.171	5.5
78	MP3C	Mx	-.023	5.5
79	MP3A	X	-22.048	.5
80	MP3A	Z	-12.73	.5
81	MP3A	Mx	.018	.5
82	MP3A	X	-22.048	5.5
83	MP3A	Z	-12.73	5.5
84	MP3A	Mx	.018	5.5
85	MP3B	X	-28.392	.5
86	MP3B	Z	-16.392	.5
87	MP3B	Mx	-.019	.5
88	MP3B	X	-28.392	5.5
89	MP3B	Z	-16.392	5.5
90	MP3B	Mx	-.019	5.5
91	MP3C	X	-26.277	.5
92	MP3C	Z	-15.171	.5
93	MP3C	Mx	.008	.5
94	MP3C	X	-26.277	5.5
95	MP3C	Z	-15.171	5.5
96	MP3C	Mx	.008	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-8.399	2
2	MP4A	Z	-14.547	2
3	MP4A	Mx	.004	2
4	MP4A	X	-8.399	4
5	MP4A	Z	-14.547	4
6	MP4A	Mx	.004	4
7	MP4B	X	-8.399	2
8	MP4B	Z	-14.547	2
9	MP4B	Mx	.004	2
10	MP4B	X	-8.399	4
11	MP4B	Z	-14.547	4
12	MP4B	Mx	.004	4
13	MP4C	X	-5.679	2
14	MP4C	Z	-9.837	2
15	MP4C	Mx	-.005	2
16	MP4C	X	-5.679	4
17	MP4C	Z	-9.837	4
18	MP4C	Mx	-.005	4
19	MP1A	X	-14.698	1
20	MP1A	Z	-25.457	1
21	MP1A	Mx	-.007	1
22	MP1B	X	-14.698	1
23	MP1B	Z	-25.457	1
24	MP1B	Mx	-.007	1
25	MP2A	X	-7.819	1.5
26	MP2A	Z	-13.543	1.5
27	MP2A	Mx	-.004	1.5
28	MP2B	X	-7.819	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	-13.543	1.5
30	MP2B	Mx	-.004	1.5
31	MP2C	X	-6.588	1.5
32	MP2C	Z	-11.411	1.5
33	MP2C	Mx	.006	1.5
34	MP3A	X	-7.585	1.5
35	MP3A	Z	-13.138	1.5
36	MP3A	Mx	-.004	1.5
37	MP3B	X	-7.585	1.5
38	MP3B	Z	-13.138	1.5
39	MP3B	Mx	-.004	1.5
40	MP3C	X	-5.886	1.5
41	MP3C	Z	-10.195	1.5
42	MP3C	Mx	.005	1.5
43	MP1B	X	-13.276	.5
44	MP1B	Z	-22.994	.5
45	MP1B	Mx	.007	.5
46	MP1B	X	-13.276	5.5
47	MP1B	Z	-22.994	5.5
48	MP1B	Mx	.007	5.5
49	MP1C	X	-6.644	1.5
50	MP1C	Z	-11.507	1.5
51	MP1C	Mx	-.006	1.5
52	MP1C	X	-6.644	4.5
53	MP1C	Z	-11.507	4.5
54	MP1C	Mx	-.006	4.5
55	MP1A	X	-11.586	.5
56	MP1A	Z	-20.067	.5
57	MP1A	Mx	.006	.5
58	MP1A	X	-11.586	5.5
59	MP1A	Z	-20.067	5.5
60	MP1A	Mx	.006	5.5
61	MP3A	X	-15.171	.5
62	MP3A	Z	-26.277	.5
63	MP3A	Mx	-.008	.5
64	MP3A	X	-15.171	5.5
65	MP3A	Z	-26.277	5.5
66	MP3A	Mx	-.008	5.5
67	MP3B	X	-15.171	.5
68	MP3B	Z	-26.277	.5
69	MP3B	Mx	.023	.5
70	MP3B	X	-15.171	5.5
71	MP3B	Z	-26.277	5.5
72	MP3B	Mx	.023	5.5
73	MP3C	X	-12.73	.5
74	MP3C	Z	-22.048	.5
75	MP3C	Mx	-.018	.5
76	MP3C	X	-12.73	5.5
77	MP3C	Z	-22.048	5.5
78	MP3C	Mx	-.018	5.5
79	MP3A	X	-15.171	.5
80	MP3A	Z	-26.277	.5
81	MP3A	Mx	.023	.5
82	MP3A	X	-15.171	5.5
83	MP3A	Z	-26.277	5.5
84	MP3A	Mx	.023	5.5
85	MP3B	X	-15.171	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP3B	Z	-26.277	.5
87	MP3B	Mx	-.008	.5
88	MP3B	X	-15.171	5.5
89	MP3B	Z	-26.277	5.5
90	MP3B	Mx	-.008	5.5
91	MP3C	X	-12.73	.5
92	MP3C	Z	-22.048	.5
93	MP3C	Mx	-.004	.5
94	MP3C	X	-12.73	5.5
95	MP3C	Z	-22.048	5.5
96	MP3C	Mx	-.004	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2
2	MP4A	Z	-5.894	2
3	MP4A	Mx	0	2
4	MP4A	X	0	4
5	MP4A	Z	-5.894	4
6	MP4A	Mx	0	4
7	MP4B	X	0	2
8	MP4B	Z	-3.204	2
9	MP4B	Mx	.001	2
10	MP4B	X	0	4
11	MP4B	Z	-3.204	4
12	MP4B	Mx	.001	4
13	MP4C	X	0	2
14	MP4C	Z	-2.308	2
15	MP4C	Mx	-.001	2
16	MP4C	X	0	4
17	MP4C	Z	-2.308	4
18	MP4C	Mx	-.001	4
19	MP1A	X	0	1
20	MP1A	Z	-9.506	1
21	MP1A	Mx	0	1
22	MP1B	X	0	1
23	MP1B	Z	-7.095	1
24	MP1B	Mx	-.003	1
25	MP2A	X	0	1.5
26	MP2A	Z	-4.69	1.5
27	MP2A	Mx	0	1.5
28	MP2B	X	0	1.5
29	MP2B	Z	-3.524	1.5
30	MP2B	Mx	-.002	1.5
31	MP2C	X	0	1.5
32	MP2C	Z	-3.135	1.5
33	MP2C	Mx	.002	1.5
34	MP3A	X	0	1.5
35	MP3A	Z	-4.69	1.5
36	MP3A	Mx	0	1.5
37	MP3B	X	0	1.5
38	MP3B	Z	-3.077	1.5
39	MP3B	Mx	-.001	1.5
40	MP3C	X	0	1.5
41	MP3C	Z	-2.539	1.5
42	MP3C	Mx	.001	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP1B	X	0	.5
44	MP1B	Z	-6.071	.5
45	MP1B	Mx	.003	.5
46	MP1B	X	0	5.5
47	MP1B	Z	-6.071	5.5
48	MP1B	Mx	.003	5.5
49	MP1C	X	0	1.5
50	MP1C	Z	-3.502	1.5
51	MP1C	Mx	-.002	1.5
52	MP1C	X	0	4.5
53	MP1C	Z	-3.502	4.5
54	MP1C	Mx	-.002	4.5
55	MP1A	X	0	.5
56	MP1A	Z	-7.223	.5
57	MP1A	Mx	0	.5
58	MP1A	X	0	5.5
59	MP1A	Z	-7.223	5.5
60	MP1A	Mx	0	5.5
61	MP3A	X	0	.5
62	MP3A	Z	-10.233	.5
63	MP3A	Mx	-.006	.5
64	MP3A	X	0	5.5
65	MP3A	Z	-10.233	5.5
66	MP3A	Mx	-.006	5.5
67	MP3B	X	0	.5
68	MP3B	Z	-7.634	.5
69	MP3B	Mx	.006	.5
70	MP3B	X	0	5.5
71	MP3B	Z	-7.634	5.5
72	MP3B	Mx	.006	5.5
73	MP3C	X	0	.5
74	MP3C	Z	-6.767	.5
75	MP3C	Mx	-.003	.5
76	MP3C	X	0	5.5
77	MP3C	Z	-6.767	5.5
78	MP3C	Mx	-.003	5.5
79	MP3A	X	0	.5
80	MP3A	Z	-10.233	.5
81	MP3A	Mx	.006	.5
82	MP3A	X	0	5.5
83	MP3A	Z	-10.233	5.5
84	MP3A	Mx	.006	5.5
85	MP3B	X	0	.5
86	MP3B	Z	-7.634	.5
87	MP3B	Mx	.001	.5
88	MP3B	X	0	5.5
89	MP3B	Z	-7.634	5.5
90	MP3B	Mx	.001	5.5
91	MP3C	X	0	.5
92	MP3C	Z	-6.767	.5
93	MP3C	Mx	-.003	.5
94	MP3C	X	0	5.5
95	MP3C	Z	-6.767	5.5
96	MP3C	Mx	-.003	5.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.499	2
2	MP4A	Z	-4.328	2
3	MP4A	Mx	-.001	2
4	MP4A	X	2.499	4
5	MP4A	Z	-4.328	4
6	MP4A	Mx	-.001	4
7	MP4B	X	1.154	2
8	MP4B	Z	-1.998	2
9	MP4B	Mx	.001	2
10	MP4B	X	1.154	4
11	MP4B	Z	-1.998	4
12	MP4B	Mx	.001	4
13	MP4C	X	1.602	2
14	MP4C	Z	-2.775	2
15	MP4C	Mx	-.001	2
16	MP4C	X	1.602	4
17	MP4C	Z	-2.775	4
18	MP4C	Mx	-.001	4
19	MP1A	X	4.351	1
20	MP1A	Z	-7.536	1
21	MP1A	Mx	.002	1
22	MP1B	X	3.146	1
23	MP1B	Z	-5.449	1
24	MP1B	Mx	-.003	1
25	MP2A	X	2.151	1.5
26	MP2A	Z	-3.725	1.5
27	MP2A	Mx	.001	1.5
28	MP2B	X	1.568	1.5
29	MP2B	Z	-2.715	1.5
30	MP2B	Mx	-.002	1.5
31	MP2C	X	1.762	1.5
32	MP2C	Z	-3.052	1.5
33	MP2C	Mx	.002	1.5
34	MP3A	X	2.076	1.5
35	MP3A	Z	-3.596	1.5
36	MP3A	Mx	.001	1.5
37	MP3B	X	1.27	1.5
38	MP3B	Z	-2.199	1.5
39	MP3B	Mx	-.001	1.5
40	MP3C	X	1.539	1.5
41	MP3C	Z	-2.665	1.5
42	MP3C	Mx	.001	1.5
43	MP1B	X	2.53	.5
44	MP1B	Z	-4.382	.5
45	MP1B	Mx	.003	.5
46	MP1B	X	2.53	5.5
47	MP1B	Z	-4.382	5.5
48	MP1B	Mx	.003	5.5
49	MP1C	X	1.871	1.5
50	MP1C	Z	-3.241	1.5
51	MP1C	Mx	-.002	1.5
52	MP1C	X	1.871	4.5
53	MP1C	Z	-3.241	4.5
54	MP1C	Mx	-.002	4.5
55	MP1A	X	3.424	.5
56	MP1A	Z	-5.93	.5
57	MP1A	Mx	-.002	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	3.424	5.5
59	MP1A	Z	-5.93	5.5
60	MP1A	Mx	-.002	5.5
61	MP3A	X	4.683	.5
62	MP3A	Z	-8.112	.5
63	MP3A	Mx	-.007	.5
64	MP3A	X	4.683	5.5
65	MP3A	Z	-8.112	5.5
66	MP3A	Mx	-.007	5.5
67	MP3B	X	3.384	.5
68	MP3B	Z	-5.861	.5
69	MP3B	Mx	.003	.5
70	MP3B	X	3.384	5.5
71	MP3B	Z	-5.861	5.5
72	MP3B	Mx	.003	5.5
73	MP3C	X	3.817	.5
74	MP3C	Z	-6.611	.5
75	MP3C	Mx	-.001	.5
76	MP3C	X	3.817	5.5
77	MP3C	Z	-6.611	5.5
78	MP3C	Mx	-.001	5.5
79	MP3A	X	4.683	.5
80	MP3A	Z	-8.112	.5
81	MP3A	Mx	.002	.5
82	MP3A	X	4.683	5.5
83	MP3A	Z	-8.112	5.5
84	MP3A	Mx	.002	5.5
85	MP3B	X	3.384	.5
86	MP3B	Z	-5.861	.5
87	MP3B	Mx	.003	.5
88	MP3B	X	3.384	5.5
89	MP3B	Z	-5.861	5.5
90	MP3B	Mx	.003	5.5
91	MP3C	X	3.817	.5
92	MP3C	Z	-6.611	.5
93	MP3C	Mx	-.006	.5
94	MP3C	X	3.817	5.5
95	MP3C	Z	-6.611	5.5
96	MP3C	Mx	-.006	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.775	2
2	MP4A	Z	-1.602	2
3	MP4A	Mx	-.001	2
4	MP4A	X	2.775	4
5	MP4A	Z	-1.602	4
6	MP4A	Mx	-.001	4
7	MP4B	X	2.775	2
8	MP4B	Z	-1.602	2
9	MP4B	Mx	.001	2
10	MP4B	X	2.775	4
11	MP4B	Z	-1.602	4
12	MP4B	Mx	.001	4
13	MP4C	X	4.328	2
14	MP4C	Z	-2.499	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP4C	Mx	-.001	2
16	MP4C	X	4.328	4
17	MP4C	Z	-2.499	4
18	MP4C	Mx	-.001	4
19	MP1A	X	6.145	1
20	MP1A	Z	-3.548	1
21	MP1A	Mx	.003	1
22	MP1B	X	6.145	1
23	MP1B	Z	-3.548	1
24	MP1B	Mx	-.003	1
25	MP2A	X	3.052	1.5
26	MP2A	Z	-1.762	1.5
27	MP2A	Mx	.002	1.5
28	MP2B	X	3.052	1.5
29	MP2B	Z	-1.762	1.5
30	MP2B	Mx	-.002	1.5
31	MP2C	X	3.725	1.5
32	MP2C	Z	-2.151	1.5
33	MP2C	Mx	.001	1.5
34	MP3A	X	2.665	1.5
35	MP3A	Z	-1.539	1.5
36	MP3A	Mx	.001	1.5
37	MP3B	X	2.665	1.5
38	MP3B	Z	-1.539	1.5
39	MP3B	Mx	-.001	1.5
40	MP3C	X	3.596	1.5
41	MP3C	Z	-2.076	1.5
42	MP3C	Mx	.001	1.5
43	MP1B	X	5.258	.5
44	MP1B	Z	-3.036	.5
45	MP1B	Mx	.003	.5
46	MP1B	X	5.258	5.5
47	MP1B	Z	-3.036	5.5
48	MP1B	Mx	.003	5.5
49	MP1C	X	3.658	1.5
50	MP1C	Z	-2.112	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	3.658	4.5
53	MP1C	Z	-2.112	4.5
54	MP1C	Mx	-.001	4.5
55	MP1A	X	5.279	.5
56	MP1A	Z	-3.048	.5
57	MP1A	Mx	-.003	.5
58	MP1A	X	5.279	5.5
59	MP1A	Z	-3.048	5.5
60	MP1A	Mx	-.003	5.5
61	MP3A	X	6.611	.5
62	MP3A	Z	-3.817	.5
63	MP3A	Mx	-.006	.5
64	MP3A	X	6.611	5.5
65	MP3A	Z	-3.817	5.5
66	MP3A	Mx	-.006	5.5
67	MP3B	X	6.611	.5
68	MP3B	Z	-3.817	.5
69	MP3B	Mx	.001	.5
70	MP3B	X	6.611	5.5
71	MP3B	Z	-3.817	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3B	Mx	.001	5.5
73	MP3C	X	8.112	.5
74	MP3C	Z	-4.683	.5
75	MP3C	Mx	.002	.5
76	MP3C	X	8.112	5.5
77	MP3C	Z	-4.683	5.5
78	MP3C	Mx	.002	5.5
79	MP3A	X	6.611	.5
80	MP3A	Z	-3.817	.5
81	MP3A	Mx	-.001	.5
82	MP3A	X	6.611	5.5
83	MP3A	Z	-3.817	5.5
84	MP3A	Mx	-.001	5.5
85	MP3B	X	6.611	.5
86	MP3B	Z	-3.817	.5
87	MP3B	Mx	.006	.5
88	MP3B	X	6.611	5.5
89	MP3B	Z	-3.817	5.5
90	MP3B	Mx	.006	5.5
91	MP3C	X	8.112	.5
92	MP3C	Z	-4.683	.5
93	MP3C	Mx	-.007	.5
94	MP3C	X	8.112	5.5
95	MP3C	Z	-4.683	5.5
96	MP3C	Mx	-.007	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.308	2
2	MP4A	Z	0	2
3	MP4A	Mx	-.001	2
4	MP4A	X	2.308	4
5	MP4A	Z	0	4
6	MP4A	Mx	-.001	4
7	MP4B	X	4.997	2
8	MP4B	Z	0	2
9	MP4B	Mx	.001	2
10	MP4B	X	4.997	4
11	MP4B	Z	0	4
12	MP4B	Mx	.001	4
13	MP4C	X	5.894	2
14	MP4C	Z	0	2
15	MP4C	Mx	0	2
16	MP4C	X	5.894	4
17	MP4C	Z	0	4
18	MP4C	Mx	0	4
19	MP1A	X	6.292	1
20	MP1A	Z	0	1
21	MP1A	Mx	.003	1
22	MP1B	X	8.702	1
23	MP1B	Z	0	1
24	MP1B	Mx	-.002	1
25	MP2A	X	3.135	1.5
26	MP2A	Z	0	1.5
27	MP2A	Mx	.002	1.5
28	MP2B	X	4.301	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	0	1.5
30	MP2B	Mx	-.001	1.5
31	MP2C	X	4.69	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	0	1.5
34	MP3A	X	2.539	1.5
35	MP3A	Z	0	1.5
36	MP3A	Mx	.001	1.5
37	MP3B	X	4.152	1.5
38	MP3B	Z	0	1.5
39	MP3B	Mx	-.001	1.5
40	MP3C	X	4.69	1.5
41	MP3C	Z	0	1.5
42	MP3C	Mx	0	1.5
43	MP1B	X	8.093	.5
44	MP1B	Z	0	.5
45	MP1B	Mx	.002	.5
46	MP1B	X	8.093	5.5
47	MP1B	Z	0	5.5
48	MP1B	Mx	.002	5.5
49	MP1C	X	4.464	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	4.464	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	0	4.5
55	MP1A	X	5.719	.5
56	MP1A	Z	0	.5
57	MP1A	Mx	-.003	.5
58	MP1A	X	5.719	5.5
59	MP1A	Z	0	5.5
60	MP1A	Mx	-.003	5.5
61	MP3A	X	6.767	.5
62	MP3A	Z	0	.5
63	MP3A	Mx	-.003	.5
64	MP3A	X	6.767	5.5
65	MP3A	Z	0	5.5
66	MP3A	Mx	-.003	5.5
67	MP3B	X	9.367	.5
68	MP3B	Z	0	.5
69	MP3B	Mx	-.002	.5
70	MP3B	X	9.367	5.5
71	MP3B	Z	0	5.5
72	MP3B	Mx	-.002	5.5
73	MP3C	X	10.233	.5
74	MP3C	Z	0	.5
75	MP3C	Mx	.006	.5
76	MP3C	X	10.233	5.5
77	MP3C	Z	0	5.5
78	MP3C	Mx	.006	5.5
79	MP3A	X	6.767	.5
80	MP3A	Z	0	.5
81	MP3A	Mx	-.003	.5
82	MP3A	X	6.767	5.5
83	MP3A	Z	0	5.5
84	MP3A	Mx	-.003	5.5
85	MP3B	X	9.367	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP3B	Z	0	.5
87	MP3B	Mx	.007	.5
88	MP3B	X	9.367	5.5
89	MP3B	Z	0	5.5
90	MP3B	Mx	.007	5.5
91	MP3C	X	10.233	.5
92	MP3C	Z	0	.5
93	MP3C	Mx	-.006	.5
94	MP3C	X	10.233	5.5
95	MP3C	Z	0	5.5
96	MP3C	Mx	-.006	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.775	2
2	MP4A	Z	1.602	2
3	MP4A	Mx	-.001	2
4	MP4A	X	2.775	4
5	MP4A	Z	1.602	4
6	MP4A	Mx	-.001	4
7	MP4B	X	5.104	2
8	MP4B	Z	2.947	2
9	MP4B	Mx	0	2
10	MP4B	X	5.104	4
11	MP4B	Z	2.947	4
12	MP4B	Mx	0	4
13	MP4C	X	4.328	2
14	MP4C	Z	2.499	2
15	MP4C	Mx	.001	2
16	MP4C	X	4.328	4
17	MP4C	Z	2.499	4
18	MP4C	Mx	.001	4
19	MP1A	X	6.145	1
20	MP1A	Z	3.548	1
21	MP1A	Mx	.003	1
22	MP1B	X	8.232	1
23	MP1B	Z	4.753	1
24	MP1B	Mx	0	1
25	MP2A	X	3.052	1.5
26	MP2A	Z	1.762	1.5
27	MP2A	Mx	.002	1.5
28	MP2B	X	4.062	1.5
29	MP2B	Z	2.345	1.5
30	MP2B	Mx	0	1.5
31	MP2C	X	3.725	1.5
32	MP2C	Z	2.151	1.5
33	MP2C	Mx	-.001	1.5
34	MP3A	X	2.665	1.5
35	MP3A	Z	1.539	1.5
36	MP3A	Mx	.001	1.5
37	MP3B	X	4.062	1.5
38	MP3B	Z	2.345	1.5
39	MP3B	Mx	0	1.5
40	MP3C	X	3.596	1.5
41	MP3C	Z	2.076	1.5
42	MP3C	Mx	-.001	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP1B	X	7.885	.5
44	MP1B	Z	4.552	.5
45	MP1B	Mx	0	.5
46	MP1B	X	7.885	5.5
47	MP1B	Z	4.552	5.5
48	MP1B	Mx	0	5.5
49	MP1C	X	3.658	1.5
50	MP1C	Z	2.112	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	3.658	4.5
53	MP1C	Z	2.112	4.5
54	MP1C	Mx	.001	4.5
55	MP1A	X	5.279	.5
56	MP1A	Z	3.048	.5
57	MP1A	Mx	-.003	.5
58	MP1A	X	5.279	5.5
59	MP1A	Z	3.048	5.5
60	MP1A	Mx	-.003	5.5
61	MP3A	X	6.611	.5
62	MP3A	Z	3.817	.5
63	MP3A	Mx	-.001	.5
64	MP3A	X	6.611	5.5
65	MP3A	Z	3.817	5.5
66	MP3A	Mx	-.001	5.5
67	MP3B	X	8.862	.5
68	MP3B	Z	5.117	.5
69	MP3B	Mx	-.006	.5
70	MP3B	X	8.862	5.5
71	MP3B	Z	5.117	5.5
72	MP3B	Mx	-.006	5.5
73	MP3C	X	8.112	.5
74	MP3C	Z	4.683	.5
75	MP3C	Mx	.007	.5
76	MP3C	X	8.112	5.5
77	MP3C	Z	4.683	5.5
78	MP3C	Mx	.007	5.5
79	MP3A	X	6.611	.5
80	MP3A	Z	3.817	.5
81	MP3A	Mx	-.006	.5
82	MP3A	X	6.611	5.5
83	MP3A	Z	3.817	5.5
84	MP3A	Mx	-.006	5.5
85	MP3B	X	8.862	.5
86	MP3B	Z	5.117	.5
87	MP3B	Mx	.006	.5
88	MP3B	X	8.862	5.5
89	MP3B	Z	5.117	5.5
90	MP3B	Mx	.006	5.5
91	MP3C	X	8.112	.5
92	MP3C	Z	4.683	.5
93	MP3C	Mx	-.002	.5
94	MP3C	X	8.112	5.5
95	MP3C	Z	4.683	5.5
96	MP3C	Mx	-.002	5.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.499	2
2	MP4A	Z	4.328	2
3	MP4A	Mx	-.001	2
4	MP4A	X	2.499	4
5	MP4A	Z	4.328	4
6	MP4A	Mx	-.001	4
7	MP4B	X	2.499	2
8	MP4B	Z	4.328	2
9	MP4B	Mx	-.001	2
10	MP4B	X	2.499	4
11	MP4B	Z	4.328	4
12	MP4B	Mx	-.001	4
13	MP4C	X	1.602	2
14	MP4C	Z	2.775	2
15	MP4C	Mx	.001	2
16	MP4C	X	1.602	4
17	MP4C	Z	2.775	4
18	MP4C	Mx	.001	4
19	MP1A	X	4.351	1
20	MP1A	Z	7.536	1
21	MP1A	Mx	.002	1
22	MP1B	X	4.351	1
23	MP1B	Z	7.536	1
24	MP1B	Mx	.002	1
25	MP2A	X	2.151	1.5
26	MP2A	Z	3.725	1.5
27	MP2A	Mx	.001	1.5
28	MP2B	X	2.151	1.5
29	MP2B	Z	3.725	1.5
30	MP2B	Mx	.001	1.5
31	MP2C	X	1.762	1.5
32	MP2C	Z	3.052	1.5
33	MP2C	Mx	-.002	1.5
34	MP3A	X	2.076	1.5
35	MP3A	Z	3.596	1.5
36	MP3A	Mx	.001	1.5
37	MP3B	X	2.076	1.5
38	MP3B	Z	3.596	1.5
39	MP3B	Mx	.001	1.5
40	MP3C	X	1.539	1.5
41	MP3C	Z	2.665	1.5
42	MP3C	Mx	-.001	1.5
43	MP1B	X	4.047	.5
44	MP1B	Z	7.009	.5
45	MP1B	Mx	-.002	.5
46	MP1B	X	4.047	5.5
47	MP1B	Z	7.009	5.5
48	MP1B	Mx	-.002	5.5
49	MP1C	X	1.871	1.5
50	MP1C	Z	3.241	1.5
51	MP1C	Mx	.002	1.5
52	MP1C	X	1.871	4.5
53	MP1C	Z	3.241	4.5
54	MP1C	Mx	.002	4.5
55	MP1A	X	3.424	.5
56	MP1A	Z	5.93	.5
57	MP1A	Mx	-.002	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	3.424	5.5
59	MP1A	Z	5.93	5.5
60	MP1A	Mx	-.002	5.5
61	MP3A	X	4.683	.5
62	MP3A	Z	8.112	.5
63	MP3A	Mx	.002	.5
64	MP3A	X	4.683	5.5
65	MP3A	Z	8.112	5.5
66	MP3A	Mx	.002	5.5
67	MP3B	X	4.683	.5
68	MP3B	Z	8.112	.5
69	MP3B	Mx	-.007	.5
70	MP3B	X	4.683	5.5
71	MP3B	Z	8.112	5.5
72	MP3B	Mx	-.007	5.5
73	MP3C	X	3.817	.5
74	MP3C	Z	6.611	.5
75	MP3C	Mx	.006	.5
76	MP3C	X	3.817	5.5
77	MP3C	Z	6.611	5.5
78	MP3C	Mx	.006	5.5
79	MP3A	X	4.683	.5
80	MP3A	Z	8.112	.5
81	MP3A	Mx	-.007	.5
82	MP3A	X	4.683	5.5
83	MP3A	Z	8.112	5.5
84	MP3A	Mx	-.007	5.5
85	MP3B	X	4.683	.5
86	MP3B	Z	8.112	.5
87	MP3B	Mx	.002	.5
88	MP3B	X	4.683	5.5
89	MP3B	Z	8.112	5.5
90	MP3B	Mx	.002	5.5
91	MP3C	X	3.817	.5
92	MP3C	Z	6.611	.5
93	MP3C	Mx	.001	.5
94	MP3C	X	3.817	5.5
95	MP3C	Z	6.611	5.5
96	MP3C	Mx	.001	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	2
2	MP4A	Z	5.894	2
3	MP4A	Mx	0	2
4	MP4A	X	0	4
5	MP4A	Z	5.894	4
6	MP4A	Mx	0	4
7	MP4B	X	0	2
8	MP4B	Z	3.204	2
9	MP4B	Mx	-.001	2
10	MP4B	X	0	4
11	MP4B	Z	3.204	4
12	MP4B	Mx	-.001	4
13	MP4C	X	0	2
14	MP4C	Z	2.308	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP4C	Mx	.001	2
16	MP4C	X	0	4
17	MP4C	Z	2.308	4
18	MP4C	Mx	.001	4
19	MP1A	X	0	1
20	MP1A	Z	9.506	1
21	MP1A	Mx	0	1
22	MP1B	X	0	1
23	MP1B	Z	7.095	1
24	MP1B	Mx	.003	1
25	MP2A	X	0	1.5
26	MP2A	Z	4.69	1.5
27	MP2A	Mx	0	1.5
28	MP2B	X	0	1.5
29	MP2B	Z	3.524	1.5
30	MP2B	Mx	.002	1.5
31	MP2C	X	0	1.5
32	MP2C	Z	3.135	1.5
33	MP2C	Mx	-.002	1.5
34	MP3A	X	0	1.5
35	MP3A	Z	4.69	1.5
36	MP3A	Mx	0	1.5
37	MP3B	X	0	1.5
38	MP3B	Z	3.077	1.5
39	MP3B	Mx	.001	1.5
40	MP3C	X	0	1.5
41	MP3C	Z	2.539	1.5
42	MP3C	Mx	-.001	1.5
43	MP1B	X	0	.5
44	MP1B	Z	6.071	.5
45	MP1B	Mx	-.003	.5
46	MP1B	X	0	5.5
47	MP1B	Z	6.071	5.5
48	MP1B	Mx	-.003	5.5
49	MP1C	X	0	1.5
50	MP1C	Z	3.502	1.5
51	MP1C	Mx	.002	1.5
52	MP1C	X	0	4.5
53	MP1C	Z	3.502	4.5
54	MP1C	Mx	.002	4.5
55	MP1A	X	0	.5
56	MP1A	Z	7.223	.5
57	MP1A	Mx	0	.5
58	MP1A	X	0	5.5
59	MP1A	Z	7.223	5.5
60	MP1A	Mx	0	5.5
61	MP3A	X	0	.5
62	MP3A	Z	10.233	.5
63	MP3A	Mx	.006	.5
64	MP3A	X	0	5.5
65	MP3A	Z	10.233	5.5
66	MP3A	Mx	.006	5.5
67	MP3B	X	0	.5
68	MP3B	Z	7.634	.5
69	MP3B	Mx	-.006	.5
70	MP3B	X	0	5.5
71	MP3B	Z	7.634	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3B	Mx	-.006	5.5
73	MP3C	X	0	.5
74	MP3C	Z	6.767	.5
75	MP3C	Mx	.003	.5
76	MP3C	X	0	5.5
77	MP3C	Z	6.767	5.5
78	MP3C	Mx	.003	5.5
79	MP3A	X	0	.5
80	MP3A	Z	10.233	.5
81	MP3A	Mx	-.006	.5
82	MP3A	X	0	5.5
83	MP3A	Z	10.233	5.5
84	MP3A	Mx	-.006	5.5
85	MP3B	X	0	.5
86	MP3B	Z	7.634	.5
87	MP3B	Mx	-.001	.5
88	MP3B	X	0	5.5
89	MP3B	Z	7.634	5.5
90	MP3B	Mx	-.001	5.5
91	MP3C	X	0	.5
92	MP3C	Z	6.767	.5
93	MP3C	Mx	.003	.5
94	MP3C	X	0	5.5
95	MP3C	Z	6.767	5.5
96	MP3C	Mx	.003	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.499	2
2	MP4A	Z	4.328	2
3	MP4A	Mx	.001	2
4	MP4A	X	-2.499	4
5	MP4A	Z	4.328	4
6	MP4A	Mx	.001	4
7	MP4B	X	-1.154	2
8	MP4B	Z	1.998	2
9	MP4B	Mx	-.001	2
10	MP4B	X	-1.154	4
11	MP4B	Z	1.998	4
12	MP4B	Mx	-.001	4
13	MP4C	X	-1.602	2
14	MP4C	Z	2.775	2
15	MP4C	Mx	.001	2
16	MP4C	X	-1.602	4
17	MP4C	Z	2.775	4
18	MP4C	Mx	.001	4
19	MP1A	X	-4.351	1
20	MP1A	Z	7.536	1
21	MP1A	Mx	-.002	1
22	MP1B	X	-3.146	1
23	MP1B	Z	5.449	1
24	MP1B	Mx	.003	1
25	MP2A	X	-2.151	1.5
26	MP2A	Z	3.725	1.5
27	MP2A	Mx	-.001	1.5
28	MP2B	X	-1.568	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	2.715	1.5
30	MP2B	Mx	.002	1.5
31	MP2C	X	-1.762	1.5
32	MP2C	Z	3.052	1.5
33	MP2C	Mx	-.002	1.5
34	MP3A	X	-2.076	1.5
35	MP3A	Z	3.596	1.5
36	MP3A	Mx	-.001	1.5
37	MP3B	X	-1.27	1.5
38	MP3B	Z	2.199	1.5
39	MP3B	Mx	.001	1.5
40	MP3C	X	-1.539	1.5
41	MP3C	Z	2.665	1.5
42	MP3C	Mx	-.001	1.5
43	MP1B	X	-2.53	.5
44	MP1B	Z	4.382	.5
45	MP1B	Mx	-.003	.5
46	MP1B	X	-2.53	5.5
47	MP1B	Z	4.382	5.5
48	MP1B	Mx	-.003	5.5
49	MP1C	X	-1.871	1.5
50	MP1C	Z	3.241	1.5
51	MP1C	Mx	.002	1.5
52	MP1C	X	-1.871	4.5
53	MP1C	Z	3.241	4.5
54	MP1C	Mx	.002	4.5
55	MP1A	X	-3.424	.5
56	MP1A	Z	5.93	.5
57	MP1A	Mx	.002	.5
58	MP1A	X	-3.424	5.5
59	MP1A	Z	5.93	5.5
60	MP1A	Mx	.002	5.5
61	MP3A	X	-4.683	.5
62	MP3A	Z	8.112	.5
63	MP3A	Mx	.007	.5
64	MP3A	X	-4.683	5.5
65	MP3A	Z	8.112	5.5
66	MP3A	Mx	.007	5.5
67	MP3B	X	-3.384	.5
68	MP3B	Z	5.861	.5
69	MP3B	Mx	-.003	.5
70	MP3B	X	-3.384	5.5
71	MP3B	Z	5.861	5.5
72	MP3B	Mx	-.003	5.5
73	MP3C	X	-3.817	.5
74	MP3C	Z	6.611	.5
75	MP3C	Mx	.001	.5
76	MP3C	X	-3.817	5.5
77	MP3C	Z	6.611	5.5
78	MP3C	Mx	.001	5.5
79	MP3A	X	-4.683	.5
80	MP3A	Z	8.112	.5
81	MP3A	Mx	-.002	.5
82	MP3A	X	-4.683	5.5
83	MP3A	Z	8.112	5.5
84	MP3A	Mx	-.002	5.5
85	MP3B	X	-3.384	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP3B	Z	5.861	.5
87	MP3B	Mx	-.003	.5
88	MP3B	X	-3.384	5.5
89	MP3B	Z	5.861	5.5
90	MP3B	Mx	-.003	5.5
91	MP3C	X	-3.817	.5
92	MP3C	Z	6.611	.5
93	MP3C	Mx	.006	.5
94	MP3C	X	-3.817	5.5
95	MP3C	Z	6.611	5.5
96	MP3C	Mx	.006	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.775	2
2	MP4A	Z	1.602	2
3	MP4A	Mx	.001	2
4	MP4A	X	-2.775	4
5	MP4A	Z	1.602	4
6	MP4A	Mx	.001	4
7	MP4B	X	-2.775	2
8	MP4B	Z	1.602	2
9	MP4B	Mx	-.001	2
10	MP4B	X	-2.775	4
11	MP4B	Z	1.602	4
12	MP4B	Mx	-.001	4
13	MP4C	X	-4.328	2
14	MP4C	Z	2.499	2
15	MP4C	Mx	.001	2
16	MP4C	X	-4.328	4
17	MP4C	Z	2.499	4
18	MP4C	Mx	.001	4
19	MP1A	X	-6.145	1
20	MP1A	Z	3.548	1
21	MP1A	Mx	-.003	1
22	MP1B	X	-6.145	1
23	MP1B	Z	3.548	1
24	MP1B	Mx	.003	1
25	MP2A	X	-3.052	1.5
26	MP2A	Z	1.762	1.5
27	MP2A	Mx	-.002	1.5
28	MP2B	X	-3.052	1.5
29	MP2B	Z	1.762	1.5
30	MP2B	Mx	.002	1.5
31	MP2C	X	-3.725	1.5
32	MP2C	Z	2.151	1.5
33	MP2C	Mx	-.001	1.5
34	MP3A	X	-2.665	1.5
35	MP3A	Z	1.539	1.5
36	MP3A	Mx	-.001	1.5
37	MP3B	X	-2.665	1.5
38	MP3B	Z	1.539	1.5
39	MP3B	Mx	.001	1.5
40	MP3C	X	-3.596	1.5
41	MP3C	Z	2.076	1.5
42	MP3C	Mx	-.001	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP1B	X	-5.258	.5
44	MP1B	Z	3.036	.5
45	MP1B	Mx	-.003	.5
46	MP1B	X	-5.258	5.5
47	MP1B	Z	3.036	5.5
48	MP1B	Mx	-.003	5.5
49	MP1C	X	-3.658	1.5
50	MP1C	Z	2.112	1.5
51	MP1C	Mx	.001	1.5
52	MP1C	X	-3.658	4.5
53	MP1C	Z	2.112	4.5
54	MP1C	Mx	.001	4.5
55	MP1A	X	-5.279	.5
56	MP1A	Z	3.048	.5
57	MP1A	Mx	.003	.5
58	MP1A	X	-5.279	5.5
59	MP1A	Z	3.048	5.5
60	MP1A	Mx	.003	5.5
61	MP3A	X	-6.611	.5
62	MP3A	Z	3.817	.5
63	MP3A	Mx	.006	.5
64	MP3A	X	-6.611	5.5
65	MP3A	Z	3.817	5.5
66	MP3A	Mx	.006	5.5
67	MP3B	X	-6.611	.5
68	MP3B	Z	3.817	.5
69	MP3B	Mx	-.001	.5
70	MP3B	X	-6.611	5.5
71	MP3B	Z	3.817	5.5
72	MP3B	Mx	-.001	5.5
73	MP3C	X	-8.112	.5
74	MP3C	Z	4.683	.5
75	MP3C	Mx	-.002	.5
76	MP3C	X	-8.112	5.5
77	MP3C	Z	4.683	5.5
78	MP3C	Mx	-.002	5.5
79	MP3A	X	-6.611	.5
80	MP3A	Z	3.817	.5
81	MP3A	Mx	.001	.5
82	MP3A	X	-6.611	5.5
83	MP3A	Z	3.817	5.5
84	MP3A	Mx	.001	5.5
85	MP3B	X	-6.611	.5
86	MP3B	Z	3.817	.5
87	MP3B	Mx	-.006	.5
88	MP3B	X	-6.611	5.5
89	MP3B	Z	3.817	5.5
90	MP3B	Mx	-.006	5.5
91	MP3C	X	-8.112	.5
92	MP3C	Z	4.683	.5
93	MP3C	Mx	.007	.5
94	MP3C	X	-8.112	5.5
95	MP3C	Z	4.683	5.5
96	MP3C	Mx	.007	5.5

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.308	2
2	MP4A	Z	0	2
3	MP4A	Mx	.001	2
4	MP4A	X	-2.308	4
5	MP4A	Z	0	4
6	MP4A	Mx	.001	4
7	MP4B	X	-4.997	2
8	MP4B	Z	0	2
9	MP4B	Mx	-.001	2
10	MP4B	X	-4.997	4
11	MP4B	Z	0	4
12	MP4B	Mx	-.001	4
13	MP4C	X	-5.894	2
14	MP4C	Z	0	2
15	MP4C	Mx	0	2
16	MP4C	X	-5.894	4
17	MP4C	Z	0	4
18	MP4C	Mx	0	4
19	MP1A	X	-6.292	1
20	MP1A	Z	0	1
21	MP1A	Mx	-.003	1
22	MP1B	X	-8.702	1
23	MP1B	Z	0	1
24	MP1B	Mx	.002	1
25	MP2A	X	-3.135	1.5
26	MP2A	Z	0	1.5
27	MP2A	Mx	-.002	1.5
28	MP2B	X	-4.301	1.5
29	MP2B	Z	0	1.5
30	MP2B	Mx	.001	1.5
31	MP2C	X	-4.69	1.5
32	MP2C	Z	0	1.5
33	MP2C	Mx	0	1.5
34	MP3A	X	-2.539	1.5
35	MP3A	Z	0	1.5
36	MP3A	Mx	-.001	1.5
37	MP3B	X	-4.152	1.5
38	MP3B	Z	0	1.5
39	MP3B	Mx	.001	1.5
40	MP3C	X	-4.69	1.5
41	MP3C	Z	0	1.5
42	MP3C	Mx	0	1.5
43	MP1B	X	-8.093	.5
44	MP1B	Z	0	.5
45	MP1B	Mx	-.002	.5
46	MP1B	X	-8.093	5.5
47	MP1B	Z	0	5.5
48	MP1B	Mx	-.002	5.5
49	MP1C	X	-4.464	1.5
50	MP1C	Z	0	1.5
51	MP1C	Mx	0	1.5
52	MP1C	X	-4.464	4.5
53	MP1C	Z	0	4.5
54	MP1C	Mx	0	4.5
55	MP1A	X	-5.719	.5
56	MP1A	Z	0	.5
57	MP1A	Mx	.003	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-5.719	5.5
59	MP1A	Z	0	5.5
60	MP1A	Mx	.003	5.5
61	MP3A	X	-6.767	.5
62	MP3A	Z	0	.5
63	MP3A	Mx	.003	.5
64	MP3A	X	-6.767	5.5
65	MP3A	Z	0	5.5
66	MP3A	Mx	.003	5.5
67	MP3B	X	-9.367	.5
68	MP3B	Z	0	.5
69	MP3B	Mx	.002	.5
70	MP3B	X	-9.367	5.5
71	MP3B	Z	0	5.5
72	MP3B	Mx	.002	5.5
73	MP3C	X	-10.233	.5
74	MP3C	Z	0	.5
75	MP3C	Mx	-.006	.5
76	MP3C	X	-10.233	5.5
77	MP3C	Z	0	5.5
78	MP3C	Mx	-.006	5.5
79	MP3A	X	-6.767	.5
80	MP3A	Z	0	.5
81	MP3A	Mx	.003	.5
82	MP3A	X	-6.767	5.5
83	MP3A	Z	0	5.5
84	MP3A	Mx	.003	5.5
85	MP3B	X	-9.367	.5
86	MP3B	Z	0	.5
87	MP3B	Mx	-.007	.5
88	MP3B	X	-9.367	5.5
89	MP3B	Z	0	5.5
90	MP3B	Mx	-.007	5.5
91	MP3C	X	-10.233	.5
92	MP3C	Z	0	.5
93	MP3C	Mx	.006	.5
94	MP3C	X	-10.233	5.5
95	MP3C	Z	0	5.5
96	MP3C	Mx	.006	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.775	2
2	MP4A	Z	-1.602	2
3	MP4A	Mx	.001	2
4	MP4A	X	-2.775	4
5	MP4A	Z	-1.602	4
6	MP4A	Mx	.001	4
7	MP4B	X	-5.104	2
8	MP4B	Z	-2.947	2
9	MP4B	Mx	0	2
10	MP4B	X	-5.104	4
11	MP4B	Z	-2.947	4
12	MP4B	Mx	0	4
13	MP4C	X	-4.328	2
14	MP4C	Z	-2.499	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP4C	Mx	-.001	2
16	MP4C	X	-4.328	4
17	MP4C	Z	-2.499	4
18	MP4C	Mx	-.001	4
19	MP1A	X	-6.145	1
20	MP1A	Z	-3.548	1
21	MP1A	Mx	-.003	1
22	MP1B	X	-8.232	1
23	MP1B	Z	-4.753	1
24	MP1B	Mx	0	1
25	MP2A	X	-3.052	1.5
26	MP2A	Z	-1.762	1.5
27	MP2A	Mx	-.002	1.5
28	MP2B	X	-4.062	1.5
29	MP2B	Z	-2.345	1.5
30	MP2B	Mx	0	1.5
31	MP2C	X	-3.725	1.5
32	MP2C	Z	-2.151	1.5
33	MP2C	Mx	.001	1.5
34	MP3A	X	-2.665	1.5
35	MP3A	Z	-1.539	1.5
36	MP3A	Mx	-.001	1.5
37	MP3B	X	-4.062	1.5
38	MP3B	Z	-2.345	1.5
39	MP3B	Mx	0	1.5
40	MP3C	X	-3.596	1.5
41	MP3C	Z	-2.076	1.5
42	MP3C	Mx	.001	1.5
43	MP1B	X	-7.885	.5
44	MP1B	Z	-4.552	.5
45	MP1B	Mx	0	.5
46	MP1B	X	-7.885	5.5
47	MP1B	Z	-4.552	5.5
48	MP1B	Mx	0	5.5
49	MP1C	X	-3.658	1.5
50	MP1C	Z	-2.112	1.5
51	MP1C	Mx	-.001	1.5
52	MP1C	X	-3.658	4.5
53	MP1C	Z	-2.112	4.5
54	MP1C	Mx	-.001	4.5
55	MP1A	X	-5.279	.5
56	MP1A	Z	-3.048	.5
57	MP1A	Mx	.003	.5
58	MP1A	X	-5.279	5.5
59	MP1A	Z	-3.048	5.5
60	MP1A	Mx	.003	5.5
61	MP3A	X	-6.611	.5
62	MP3A	Z	-3.817	.5
63	MP3A	Mx	.001	.5
64	MP3A	X	-6.611	5.5
65	MP3A	Z	-3.817	5.5
66	MP3A	Mx	.001	5.5
67	MP3B	X	-8.862	.5
68	MP3B	Z	-5.117	.5
69	MP3B	Mx	.006	.5
70	MP3B	X	-8.862	5.5
71	MP3B	Z	-5.117	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3B	Mx	.006	5.5
73	MP3C	X	-8.112	.5
74	MP3C	Z	-4.683	.5
75	MP3C	Mx	-.007	.5
76	MP3C	X	-8.112	5.5
77	MP3C	Z	-4.683	5.5
78	MP3C	Mx	-.007	5.5
79	MP3A	X	-6.611	.5
80	MP3A	Z	-3.817	.5
81	MP3A	Mx	.006	.5
82	MP3A	X	-6.611	5.5
83	MP3A	Z	-3.817	5.5
84	MP3A	Mx	.006	5.5
85	MP3B	X	-8.862	.5
86	MP3B	Z	-5.117	.5
87	MP3B	Mx	-.006	.5
88	MP3B	X	-8.862	5.5
89	MP3B	Z	-5.117	5.5
90	MP3B	Mx	-.006	5.5
91	MP3C	X	-8.112	.5
92	MP3C	Z	-4.683	.5
93	MP3C	Mx	.002	.5
94	MP3C	X	-8.112	5.5
95	MP3C	Z	-4.683	5.5
96	MP3C	Mx	.002	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.499	2
2	MP4A	Z	-4.328	2
3	MP4A	Mx	.001	2
4	MP4A	X	-2.499	4
5	MP4A	Z	-4.328	4
6	MP4A	Mx	.001	4
7	MP4B	X	-2.499	2
8	MP4B	Z	-4.328	2
9	MP4B	Mx	.001	2
10	MP4B	X	-2.499	4
11	MP4B	Z	-4.328	4
12	MP4B	Mx	.001	4
13	MP4C	X	-1.602	2
14	MP4C	Z	-2.775	2
15	MP4C	Mx	-.001	2
16	MP4C	X	-1.602	4
17	MP4C	Z	-2.775	4
18	MP4C	Mx	-.001	4
19	MP1A	X	-4.351	1
20	MP1A	Z	-7.536	1
21	MP1A	Mx	-.002	1
22	MP1B	X	-4.351	1
23	MP1B	Z	-7.536	1
24	MP1B	Mx	-.002	1
25	MP2A	X	-2.151	1.5
26	MP2A	Z	-3.725	1.5
27	MP2A	Mx	-.001	1.5
28	MP2B	X	-2.151	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	Z	-3.725	1.5
30	MP2B	Mx	-.001	1.5
31	MP2C	X	-1.762	1.5
32	MP2C	Z	-3.052	1.5
33	MP2C	Mx	.002	1.5
34	MP3A	X	-2.076	1.5
35	MP3A	Z	-3.596	1.5
36	MP3A	Mx	-.001	1.5
37	MP3B	X	-2.076	1.5
38	MP3B	Z	-3.596	1.5
39	MP3B	Mx	-.001	1.5
40	MP3C	X	-1.539	1.5
41	MP3C	Z	-2.665	1.5
42	MP3C	Mx	.001	1.5
43	MP1B	X	-4.047	.5
44	MP1B	Z	-7.009	.5
45	MP1B	Mx	.002	.5
46	MP1B	X	-4.047	5.5
47	MP1B	Z	-7.009	5.5
48	MP1B	Mx	.002	5.5
49	MP1C	X	-1.871	1.5
50	MP1C	Z	-3.241	1.5
51	MP1C	Mx	-.002	1.5
52	MP1C	X	-1.871	4.5
53	MP1C	Z	-3.241	4.5
54	MP1C	Mx	-.002	4.5
55	MP1A	X	-3.424	.5
56	MP1A	Z	-5.93	.5
57	MP1A	Mx	.002	.5
58	MP1A	X	-3.424	5.5
59	MP1A	Z	-5.93	5.5
60	MP1A	Mx	.002	5.5
61	MP3A	X	-4.683	.5
62	MP3A	Z	-8.112	.5
63	MP3A	Mx	-.002	.5
64	MP3A	X	-4.683	5.5
65	MP3A	Z	-8.112	5.5
66	MP3A	Mx	-.002	5.5
67	MP3B	X	-4.683	.5
68	MP3B	Z	-8.112	.5
69	MP3B	Mx	.007	.5
70	MP3B	X	-4.683	5.5
71	MP3B	Z	-8.112	5.5
72	MP3B	Mx	.007	5.5
73	MP3C	X	-3.817	.5
74	MP3C	Z	-6.611	.5
75	MP3C	Mx	-.006	.5
76	MP3C	X	-3.817	5.5
77	MP3C	Z	-6.611	5.5
78	MP3C	Mx	-.006	5.5
79	MP3A	X	-4.683	.5
80	MP3A	Z	-8.112	.5
81	MP3A	Mx	.007	.5
82	MP3A	X	-4.683	5.5
83	MP3A	Z	-8.112	5.5
84	MP3A	Mx	.007	5.5
85	MP3B	X	-4.683	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP3B	Z	-8.112	.5
87	MP3B	Mx	-.002	.5
88	MP3B	X	-4.683	5.5
89	MP3B	Z	-8.112	5.5
90	MP3B	Mx	-.002	5.5
91	MP3C	X	-3.817	.5
92	MP3C	Z	-6.611	.5
93	MP3C	Mx	-.001	.5
94	MP3C	X	-3.817	5.5
95	MP3C	Z	-6.611	5.5
96	MP3C	Mx	-.001	5.5

Member Point Loads (BLC 77 : Lm1)

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

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%20

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 Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	0	2
2	MP4A	My	0	2
3	MP4A	Mz	0	2
4	MP4A	Y	0	4
5	MP4A	My	0	4
6	MP4A	Mz	0	4
7	MP4B	Y	0	2
8	MP4B	My	0	2
9	MP4B	Mz	0	2
10	MP4B	Y	0	4
11	MP4B	My	0	4
12	MP4B	Mz	0	4
13	MP4C	Y	0	2
14	MP4C	My	0	2
15	MP4C	Mz	0	2
16	MP4C	Y	0	4
17	MP4C	My	0	4
18	MP4C	Mz	0	4
19	MP1A	Y	0	1
20	MP1A	My	0	1
21	MP1A	Mz	0	1
22	MP1B	Y	0	1
23	MP1B	My	0	1
24	MP1B	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	Y	0	1.5
26	MP2A	My	0	1.5
27	MP2A	Mz	0	1.5
28	MP2B	Y	0	1.5
29	MP2B	My	0	1.5
30	MP2B	Mz	0	1.5
31	MP2C	Y	0	1.5
32	MP2C	My	0	1.5
33	MP2C	Mz	0	1.5
34	MP3A	Y	0	1.5
35	MP3A	My	0	1.5
36	MP3A	Mz	0	1.5
37	MP3B	Y	0	1.5
38	MP3B	My	0	1.5
39	MP3B	Mz	0	1.5
40	MP3C	Y	0	1.5
41	MP3C	My	0	1.5
42	MP3C	Mz	0	1.5
43	MP1B	Y	0	.5
44	MP1B	My	0	.5
45	MP1B	Mz	0	.5
46	MP1B	Y	0	5.5
47	MP1B	My	0	5.5
48	MP1B	Mz	0	5.5
49	MP1C	Y	0	1.5
50	MP1C	My	0	1.5
51	MP1C	Mz	0	1.5
52	MP1C	Y	0	4.5
53	MP1C	My	0	4.5
54	MP1C	Mz	0	4.5
55	MP1A	Y	0	.5
56	MP1A	My	0	.5
57	MP1A	Mz	0	.5
58	MP1A	Y	0	5.5
59	MP1A	My	0	5.5
60	MP1A	Mz	0	5.5
61	MP3A	Y	0	.5
62	MP3A	My	0	.5
63	MP3A	Mz	0	.5
64	MP3A	Y	0	5.5
65	MP3A	My	0	5.5
66	MP3A	Mz	0	5.5
67	MP3B	Y	0	.5
68	MP3B	My	0	.5
69	MP3B	Mz	0	.5
70	MP3B	Y	0	5.5
71	MP3B	My	0	5.5
72	MP3B	Mz	0	5.5
73	MP3C	Y	0	.5
74	MP3C	My	0	.5
75	MP3C	Mz	0	.5
76	MP3C	Y	0	5.5
77	MP3C	My	0	5.5
78	MP3C	Mz	0	5.5
79	MP3A	Y	0	.5
80	MP3A	My	0	.5
81	MP3A	Mz	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP3A	Y	0	5.5
83	MP3A	My	0	5.5
84	MP3A	Mz	0	5.5
85	MP3B	Y	0	.5
86	MP3B	My	0	.5
87	MP3B	Mz	0	.5
88	MP3B	Y	0	5.5
89	MP3B	My	0	5.5
90	MP3B	Mz	0	5.5
91	MP3C	Y	0	.5
92	MP3C	My	0	.5
93	MP3C	Mz	0	.5
94	MP3C	Y	0	5.5
95	MP3C	My	0	5.5
96	MP3C	Mz	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Z	-1.306	2
2	MP4A	Mx	0	2
3	MP4A	Z	-1.306	4
4	MP4A	Mx	0	4
5	MP4B	Z	-1.306	2
6	MP4B	Mx	.000566	2
7	MP4B	Z	-1.306	4
8	MP4B	Mx	.000566	4
9	MP4C	Z	-1.306	2
10	MP4C	Mx	-.000653	2
11	MP4C	Z	-1.306	4
12	MP4C	Mx	-.000653	4
13	MP1A	Z	-.96	1
14	MP1A	Mx	0	1
15	MP1B	Z	-.96	1
16	MP1B	Mx	-.000416	1
17	MP2A	Z	-2.532	1.5
18	MP2A	Mx	0	1.5
19	MP2B	Z	-2.532	1.5
20	MP2B	Mx	-.001	1.5
21	MP2C	Z	-2.532	1.5
22	MP2C	Mx	.001	1.5
23	MP3A	Z	-2.109	1.5
24	MP3A	Mx	0	1.5
25	MP3B	Z	-2.109	1.5
26	MP3B	Mx	-.000913	1.5
27	MP3C	Z	-2.109	1.5
28	MP3C	Mx	.001	1.5
29	MP1B	Z	-.288	.5
30	MP1B	Mx	.000125	.5
31	MP1B	Z	-.288	5.5
32	MP1B	Mx	.000125	5.5
33	MP1C	Z	-.18	1.5
34	MP1C	Mx	-9e-5	1.5
35	MP1C	Z	-.18	4.5
36	MP1C	Mx	-9e-5	4.5
37	MP1A	Z	-.27	.5
38	MP1A	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP1A	Z	-.27	5.5
40	MP1A	Mx	0	5.5
41	MP3A	Z	-.6	.5
42	MP3A	Mx	-.00035	.5
43	MP3A	Z	-.6	5.5
44	MP3A	Mx	-.00035	5.5
45	MP3B	Z	-.6	.5
46	MP3B	Mx	.000435	.5
47	MP3B	Z	-.6	5.5
48	MP3B	Mx	.000435	5.5
49	MP3C	Z	-.6	.5
50	MP3C	Mx	-.0003	.5
51	MP3C	Z	-.6	5.5
52	MP3C	Mx	-.0003	5.5
53	MP3A	Z	-.6	.5
54	MP3A	Mx	.00035	.5
55	MP3A	Z	-.6	5.5
56	MP3A	Mx	.00035	5.5
57	MP3B	Z	-.6	.5
58	MP3B	Mx	8.5e-5	.5
59	MP3B	Z	-.6	5.5
60	MP3B	Mx	8.5e-5	5.5
61	MP3C	Z	-.6	.5
62	MP3C	Mx	-.0003	.5
63	MP3C	Z	-.6	5.5
64	MP3C	Mx	-.0003	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	1.306	2
2	MP4A	Mx	-.000653	2
3	MP4A	X	1.306	4
4	MP4A	Mx	-.000653	4
5	MP4B	X	1.306	2
6	MP4B	Mx	.000327	2
7	MP4B	X	1.306	4
8	MP4B	Mx	.000327	4
9	MP4C	X	1.306	2
10	MP4C	Mx	0	2
11	MP4C	X	1.306	4
12	MP4C	Mx	0	4
13	MP1A	X	.96	1
14	MP1A	Mx	.00048	1
15	MP1B	X	.96	1
16	MP1B	Mx	-.00024	1
17	MP2A	X	2.532	1.5
18	MP2A	Mx	.001	1.5
19	MP2B	X	2.532	1.5
20	MP2B	Mx	-.000633	1.5
21	MP2C	X	2.532	1.5
22	MP2C	Mx	0	1.5
23	MP3A	X	2.109	1.5
24	MP3A	Mx	.001	1.5
25	MP3B	X	2.109	1.5
26	MP3B	Mx	-.000527	1.5
27	MP3C	X	2.109	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP3C	Mx	0	1.5
29	MP1B	X	.288	.5
30	MP1B	Mx	7.2e-5	.5
31	MP1B	X	.288	5.5
32	MP1B	Mx	7.2e-5	5.5
33	MP1C	X	.18	1.5
34	MP1C	Mx	0	1.5
35	MP1C	X	.18	4.5
36	MP1C	Mx	0	4.5
37	MP1A	X	.27	.5
38	MP1A	Mx	-.000135	.5
39	MP1A	X	.27	5.5
40	MP1A	Mx	-.000135	5.5
41	MP3A	X	.6	.5
42	MP3A	Mx	-.0003	.5
43	MP3A	X	.6	5.5
44	MP3A	Mx	-.0003	5.5
45	MP3B	X	.6	.5
46	MP3B	Mx	-.000153	.5
47	MP3B	X	.6	5.5
48	MP3B	Mx	-.000153	5.5
49	MP3C	X	.6	.5
50	MP3C	Mx	.00035	.5
51	MP3C	X	.6	5.5
52	MP3C	Mx	.00035	5.5
53	MP3A	X	.6	.5
54	MP3A	Mx	-.0003	.5
55	MP3A	X	.6	5.5
56	MP3A	Mx	-.0003	5.5
57	MP3B	X	.6	.5
58	MP3B	Mx	.000453	.5
59	MP3B	X	.6	5.5
60	MP3B	Mx	.000453	5.5
61	MP3C	X	.6	.5
62	MP3C	Mx	-.00035	.5
63	MP3C	X	.6	5.5
64	MP3C	Mx	-.00035	5.5

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	-12.194	-12.194	0	%100
2	M2	Y	-12.194	-12.194	0	%100
3	M3	Y	-12.194	-12.194	0	%100
4	M4	Y	-12.194	-12.194	0	%100
5	M5	Y	-15.104	-15.104	0	%100
6	M8	Y	-16.559	-16.559	0	%100
7	M9	Y	-12.194	-12.194	0	%100
8	M10	Y	-12.194	-12.194	0	%100
9	M11	Y	-12.194	-12.194	0	%100
10	M12	Y	-12.194	-12.194	0	%100
11	M13	Y	-15.104	-15.104	0	%100
12	M16	Y	-16.559	-16.559	0	%100
13	M17	Y	-12.194	-12.194	0	%100
14	M18	Y	-12.194	-12.194	0	%100
15	M19	Y	-12.194	-12.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M20	Y	-12.194	-12.194	0	%100
17	M21	Y	-15.104	-15.104	0	%100
18	M24	Y	-16.559	-16.559	0	%100
19	MP1A	Y	-8.351	-8.351	0	%100
20	MP2A	Y	-8.351	-8.351	0	%100
21	MP3A	Y	-8.351	-8.351	0	%100
22	MP4A	Y	-8.351	-8.351	0	%100
23	MP1C	Y	-8.351	-8.351	0	%100
24	MP2C	Y	-8.351	-8.351	0	%100
25	MP3CA	Y	-8.351	-8.351	0	%100
26	MP4CA	Y	-8.351	-8.351	0	%100
27	MP1B	Y	-8.351	-8.351	0	%100
28	MP2B	Y	-8.351	-8.351	0	%100
29	MP3B	Y	-8.351	-8.351	0	%100
30	MP4B	Y	-8.351	-8.351	0	%100
31	MP3C	Y	-8.351	-8.351	0	%100
32	M61	Y	-9.38	-9.38	0	%100
33	M66	Y	-9.38	-9.38	0	%100
34	M71	Y	-9.38	-9.38	0	%100
35	M82	Y	-12.194	-12.194	0	%100
36	M83	Y	-12.194	-12.194	0	%100
37	M84	Y	-12.194	-12.194	0	%100
38	M86	Y	-17.353	-17.353	0	%100
39	M88	Y	-17.353	-17.353	0	%100
40	M90	Y	-17.353	-17.353	0	%100
41	MP4C	Y	-8.351	-8.351	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	-18.75	-18.75	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-11.832	-11.832	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-18.75	-18.75	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-11.832	-11.832	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-4.687	-4.687	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-4.9e-5	-4.9e-5	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-4.687	-4.687	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-11.784	-11.784	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-8.014	-8.014	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	-10.423	-10.423	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-4.687	-4.687	0	%100
27	M18	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,%]
28	M18	Z	-11.784	-11.784	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	-4.687	-4.687	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	-4.9e-5	-4.9e-5	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	-8.014	-8.014	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	-10.423	-10.423	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-8.906	-8.906	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	-8.906	-8.906	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	-8.906	-8.906	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	-8.906	-8.906	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	-8.906	-8.906	0	%100
47	MP2C	X	0	0	0	%100
48	MP2C	Z	-8.906	-8.906	0	%100
49	MP3CA	X	0	0	0	%100
50	MP3CA	Z	-8.906	-8.906	0	%100
51	MP4CA	X	0	0	0	%100
52	MP4CA	Z	-8.906	-8.906	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-8.906	-8.906	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	-8.906	-8.906	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	-8.906	-8.906	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	-8.906	-8.906	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	-8.906	-8.906	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	-10.781	-10.781	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	-2.695	-2.695	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	-2.695	-2.695	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	-3.415	-3.415	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	-3.415	-3.415	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	-13.66	-13.66	0	%100
75	M86	X	0	0	0	%100
76	M86	Z	-3.862	-3.862	0	%100
77	M88	X	0	0	0	%100
78	M88	Z	-15.028	-15.028	0	%100
79	M90	X	0	0	0	%100
80	M90	Z	-15.028	-15.028	0	%100
81	MP4C	X	0	0	0	%100
82	MP4C	Z	-8.906	-8.906	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	7.031	7.031	0	%100
2	M1	Z	-12.178	-12.178	0	%100
3	M2	X	7.872	7.872	0	%100
4	M2	Z	-13.634	-13.634	0	%100
5	M3	X	7.031	7.031	0	%100
6	M3	Z	-12.178	-12.178	0	%100
7	M4	X	1.98	1.98	0	%100
8	M4	Z	-3.429	-3.429	0	%100
9	M5	X	1.336	1.336	0	%100
10	M5	Z	-2.313	-2.313	0	%100
11	M8	X	1.737	1.737	0	%100
12	M8	Z	-3.009	-3.009	0	%100
13	M9	X	7.031	7.031	0	%100
14	M9	Z	-12.178	-12.178	0	%100
15	M10	X	1.98	1.98	0	%100
16	M10	Z	-3.429	-3.429	0	%100
17	M11	X	7.031	7.031	0	%100
18	M11	Z	-12.178	-12.178	0	%100
19	M12	X	7.872	7.872	0	%100
20	M12	Z	-13.634	-13.634	0	%100
21	M13	X	1.336	1.336	0	%100
22	M13	Z	-2.313	-2.313	0	%100
23	M16	X	1.737	1.737	0	%100
24	M16	Z	-3.009	-3.009	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	1.956	1.956	0	%100
28	M18	Z	-3.388	-3.388	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	1.956	1.956	0	%100
32	M20	Z	-3.388	-3.388	0	%100
33	M21	X	5.343	5.343	0	%100
34	M21	Z	-9.254	-9.254	0	%100
35	M24	X	6.949	6.949	0	%100
36	M24	Z	-12.035	-12.035	0	%100
37	MP1A	X	4.453	4.453	0	%100
38	MP1A	Z	-7.713	-7.713	0	%100
39	MP2A	X	4.453	4.453	0	%100
40	MP2A	Z	-7.713	-7.713	0	%100
41	MP3A	X	4.453	4.453	0	%100
42	MP3A	Z	-7.713	-7.713	0	%100
43	MP4A	X	4.453	4.453	0	%100
44	MP4A	Z	-7.713	-7.713	0	%100
45	MP1C	X	4.453	4.453	0	%100
46	MP1C	Z	-7.713	-7.713	0	%100
47	MP2C	X	4.453	4.453	0	%100
48	MP2C	Z	-7.713	-7.713	0	%100
49	MP3CA	X	4.453	4.453	0	%100
50	MP3CA	Z	-7.713	-7.713	0	%100
51	MP4CA	X	4.453	4.453	0	%100
52	MP4CA	Z	-7.713	-7.713	0	%100
53	MP1B	X	4.453	4.453	0	%100
54	MP1B	Z	-7.713	-7.713	0	%100
55	MP2B	X	4.453	4.453	0	%100
56	MP2B	Z	-7.713	-7.713	0	%100
57	MP3B	X	4.453	4.453	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-7.713	-7.713	0	%100
59	MP4B	X	4.453	4.453	0	%100
60	MP4B	Z	-7.713	-7.713	0	%100
61	MP3C	X	4.453	4.453	0	%100
62	MP3C	Z	-7.713	-7.713	0	%100
63	M61	X	4.043	4.043	0	%100
64	M61	Z	-7.002	-7.002	0	%100
65	M66	X	4.043	4.043	0	%100
66	M66	Z	-7.002	-7.002	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	5.122	5.122	0	%100
70	M82	Z	-8.872	-8.872	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	5.122	5.122	0	%100
74	M84	Z	-8.872	-8.872	0	%100
75	M86	X	3.792	3.792	0	%100
76	M86	Z	-6.568	-6.568	0	%100
77	M88	X	3.792	3.792	0	%100
78	M88	Z	-6.568	-6.568	0	%100
79	M90	X	9.375	9.375	0	%100
80	M90	Z	-16.238	-16.238	0	%100
81	MP4C	X	4.453	4.453	0	%100
82	MP4C	Z	-7.713	-7.713	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	4.059	4.059	0	%100
2	M1	Z	-2.344	-2.344	0	%100
3	M2	X	10.205	10.205	0	%100
4	M2	Z	-5.892	-5.892	0	%100
5	M3	X	4.059	4.059	0	%100
6	M3	Z	-2.344	-2.344	0	%100
7	M4	X	4.2e-5	4.2e-5	0	%100
8	M4	Z	-2.5e-5	-2.5e-5	0	%100
9	M5	X	6.94	6.94	0	%100
10	M5	Z	-4.007	-4.007	0	%100
11	M8	X	9.027	9.027	0	%100
12	M8	Z	-5.211	-5.211	0	%100
13	M9	X	16.238	16.238	0	%100
14	M9	Z	-9.375	-9.375	0	%100
15	M10	X	10.246	10.246	0	%100
16	M10	Z	-5.916	-5.916	0	%100
17	M11	X	16.238	16.238	0	%100
18	M11	Z	-9.375	-9.375	0	%100
19	M12	X	10.246	10.246	0	%100
20	M12	Z	-5.916	-5.916	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	4.059	4.059	0	%100
26	M17	Z	-2.344	-2.344	0	%100
27	M18	X	4.2e-5	4.2e-5	0	%100
28	M18	Z	-2.5e-5	-2.5e-5	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,%]
29	M19	X	4.059	4.059	0	%100
30	M19	Z	-2.344	-2.344	0	%100
31	M20	X	10.205	10.205	0	%100
32	M20	Z	-5.892	-5.892	0	%100
33	M21	X	6.94	6.94	0	%100
34	M21	Z	-4.007	-4.007	0	%100
35	M24	X	9.027	9.027	0	%100
36	M24	Z	-5.211	-5.211	0	%100
37	MP1A	X	7.713	7.713	0	%100
38	MP1A	Z	-4.453	-4.453	0	%100
39	MP2A	X	7.713	7.713	0	%100
40	MP2A	Z	-4.453	-4.453	0	%100
41	MP3A	X	7.713	7.713	0	%100
42	MP3A	Z	-4.453	-4.453	0	%100
43	MP4A	X	7.713	7.713	0	%100
44	MP4A	Z	-4.453	-4.453	0	%100
45	MP1C	X	7.713	7.713	0	%100
46	MP1C	Z	-4.453	-4.453	0	%100
47	MP2C	X	7.713	7.713	0	%100
48	MP2C	Z	-4.453	-4.453	0	%100
49	MP3CA	X	7.713	7.713	0	%100
50	MP3CA	Z	-4.453	-4.453	0	%100
51	MP4CA	X	7.713	7.713	0	%100
52	MP4CA	Z	-4.453	-4.453	0	%100
53	MP1B	X	7.713	7.713	0	%100
54	MP1B	Z	-4.453	-4.453	0	%100
55	MP2B	X	7.713	7.713	0	%100
56	MP2B	Z	-4.453	-4.453	0	%100
57	MP3B	X	7.713	7.713	0	%100
58	MP3B	Z	-4.453	-4.453	0	%100
59	MP4B	X	7.713	7.713	0	%100
60	MP4B	Z	-4.453	-4.453	0	%100
61	MP3C	X	7.713	7.713	0	%100
62	MP3C	Z	-4.453	-4.453	0	%100
63	M61	X	2.334	2.334	0	%100
64	M61	Z	-1.348	-1.348	0	%100
65	M66	X	9.337	9.337	0	%100
66	M66	Z	-5.39	-5.39	0	%100
67	M71	X	2.334	2.334	0	%100
68	M71	Z	-1.348	-1.348	0	%100
69	M82	X	11.83	11.83	0	%100
70	M82	Z	-6.83	-6.83	0	%100
71	M83	X	2.957	2.957	0	%100
72	M83	Z	-1.707	-1.707	0	%100
73	M84	X	2.957	2.957	0	%100
74	M84	Z	-1.707	-1.707	0	%100
75	M86	X	13.014	13.014	0	%100
76	M86	Z	-7.514	-7.514	0	%100
77	M88	X	3.345	3.345	0	%100
78	M88	Z	-1.931	-1.931	0	%100
79	M90	X	13.014	13.014	0	%100
80	M90	Z	-7.514	-7.514	0	%100
81	MP4C	X	7.713	7.713	0	%100
82	MP4C	Z	-4.453	-4.453	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,%]

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,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.912	3.912	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	3.912	3.912	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	10.685	10.685	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	13.897	13.897	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	14.062	14.062	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	15.743	15.743	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	14.062	14.062	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	3.96	3.96	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	2.671	2.671	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	3.474	3.474	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	14.062	14.062	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	3.96	3.96	0	%100
28	M18	Z	0	0	0	%100
29	M19	X	14.062	14.062	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	15.743	15.743	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	2.671	2.671	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	3.474	3.474	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	8.906	8.906	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	8.906	8.906	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	8.906	8.906	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	8.906	8.906	0	%100
44	MP4A	Z	0	0	0	%100
45	MP1C	X	8.906	8.906	0	%100
46	MP1C	Z	0	0	0	%100
47	MP2C	X	8.906	8.906	0	%100
48	MP2C	Z	0	0	0	%100
49	MP3CA	X	8.906	8.906	0	%100
50	MP3CA	Z	0	0	0	%100
51	MP4CA	X	8.906	8.906	0	%100
52	MP4CA	Z	0	0	0	%100
53	MP1B	X	8.906	8.906	0	%100
54	MP1B	Z	0	0	0	%100
55	MP2B	X	8.906	8.906	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	8.906	8.906	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	0	0	0	%100
59	MP4B	X	8.906	8.906	0	%100
60	MP4B	Z	0	0	0	%100
61	MP3C	X	8.906	8.906	0	%100
62	MP3C	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M66	X	8.086	8.086	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	8.086	8.086	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	10.245	10.245	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	10.245	10.245	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	0	0	0	%100
75	M86	X	18.75	18.75	0	%100
76	M86	Z	0	0	0	%100
77	M88	X	7.584	7.584	0	%100
78	M88	Z	0	0	0	%100
79	M90	X	7.584	7.584	0	%100
80	M90	Z	0	0	0	%100
81	MP4C	X	8.906	8.906	0	%100
82	MP4C	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	4.059	4.059	0	%100
2	M1	Z	2.344	2.344	0	%100
3	M2	X	4.2e-5	4.2e-5	0	%100
4	M2	Z	2.5e-5	2.5e-5	0	%100
5	M3	X	4.059	4.059	0	%100
6	M3	Z	2.344	2.344	0	%100
7	M4	X	10.205	10.205	0	%100
8	M4	Z	5.892	5.892	0	%100
9	M5	X	6.94	6.94	0	%100
10	M5	Z	4.007	4.007	0	%100
11	M8	X	9.027	9.027	0	%100
12	M8	Z	5.211	5.211	0	%100
13	M9	X	4.059	4.059	0	%100
14	M9	Z	2.344	2.344	0	%100
15	M10	X	10.205	10.205	0	%100
16	M10	Z	5.892	5.892	0	%100
17	M11	X	4.059	4.059	0	%100
18	M11	Z	2.344	2.344	0	%100
19	M12	X	4.2e-5	4.2e-5	0	%100
20	M12	Z	2.5e-5	2.5e-5	0	%100
21	M13	X	6.94	6.94	0	%100
22	M13	Z	4.007	4.007	0	%100
23	M16	X	9.027	9.027	0	%100
24	M16	Z	5.211	5.211	0	%100
25	M17	X	16.238	16.238	0	%100
26	M17	Z	9.375	9.375	0	%100
27	M18	X	10.246	10.246	0	%100
28	M18	Z	5.916	5.916	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,%]
29	M19	X	16.238	16.238	0	%100
30	M19	Z	9.375	9.375	0	%100
31	M20	X	10.246	10.246	0	%100
32	M20	Z	5.916	5.916	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	7.713	7.713	0	%100
38	MP1A	Z	4.453	4.453	0	%100
39	MP2A	X	7.713	7.713	0	%100
40	MP2A	Z	4.453	4.453	0	%100
41	MP3A	X	7.713	7.713	0	%100
42	MP3A	Z	4.453	4.453	0	%100
43	MP4A	X	7.713	7.713	0	%100
44	MP4A	Z	4.453	4.453	0	%100
45	MP1C	X	7.713	7.713	0	%100
46	MP1C	Z	4.453	4.453	0	%100
47	MP2C	X	7.713	7.713	0	%100
48	MP2C	Z	4.453	4.453	0	%100
49	MP3CA	X	7.713	7.713	0	%100
50	MP3CA	Z	4.453	4.453	0	%100
51	MP4CA	X	7.713	7.713	0	%100
52	MP4CA	Z	4.453	4.453	0	%100
53	MP1B	X	7.713	7.713	0	%100
54	MP1B	Z	4.453	4.453	0	%100
55	MP2B	X	7.713	7.713	0	%100
56	MP2B	Z	4.453	4.453	0	%100
57	MP3B	X	7.713	7.713	0	%100
58	MP3B	Z	4.453	4.453	0	%100
59	MP4B	X	7.713	7.713	0	%100
60	MP4B	Z	4.453	4.453	0	%100
61	MP3C	X	7.713	7.713	0	%100
62	MP3C	Z	4.453	4.453	0	%100
63	M61	X	2.334	2.334	0	%100
64	M61	Z	1.348	1.348	0	%100
65	M66	X	2.334	2.334	0	%100
66	M66	Z	1.348	1.348	0	%100
67	M71	X	9.337	9.337	0	%100
68	M71	Z	5.39	5.39	0	%100
69	M82	X	2.957	2.957	0	%100
70	M82	Z	1.707	1.707	0	%100
71	M83	X	11.83	11.83	0	%100
72	M83	Z	6.83	6.83	0	%100
73	M84	X	2.957	2.957	0	%100
74	M84	Z	1.707	1.707	0	%100
75	M86	X	13.014	13.014	0	%100
76	M86	Z	7.514	7.514	0	%100
77	M88	X	13.014	13.014	0	%100
78	M88	Z	7.514	7.514	0	%100
79	M90	X	3.345	3.345	0	%100
80	M90	Z	1.931	1.931	0	%100
81	MP4C	X	7.713	7.713	0	%100
82	MP4C	Z	4.453	4.453	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,%]

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,%]
1	M1	X	7.031	7.031	0	%100
2	M1	Z	12.178	12.178	0	%100
3	M2	X	1.98	1.98	0	%100
4	M2	Z	3.429	3.429	0	%100
5	M3	X	7.031	7.031	0	%100
6	M3	Z	12.178	12.178	0	%100
7	M4	X	7.872	7.872	0	%100
8	M4	Z	13.634	13.634	0	%100
9	M5	X	1.336	1.336	0	%100
10	M5	Z	2.313	2.313	0	%100
11	M8	X	1.737	1.737	0	%100
12	M8	Z	3.009	3.009	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	1.956	1.956	0	%100
16	M10	Z	3.388	3.388	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	1.956	1.956	0	%100
20	M12	Z	3.388	3.388	0	%100
21	M13	X	5.343	5.343	0	%100
22	M13	Z	9.254	9.254	0	%100
23	M16	X	6.949	6.949	0	%100
24	M16	Z	12.035	12.035	0	%100
25	M17	X	7.031	7.031	0	%100
26	M17	Z	12.178	12.178	0	%100
27	M18	X	7.872	7.872	0	%100
28	M18	Z	13.634	13.634	0	%100
29	M19	X	7.031	7.031	0	%100
30	M19	Z	12.178	12.178	0	%100
31	M20	X	1.98	1.98	0	%100
32	M20	Z	3.429	3.429	0	%100
33	M21	X	1.336	1.336	0	%100
34	M21	Z	2.313	2.313	0	%100
35	M24	X	1.737	1.737	0	%100
36	M24	Z	3.009	3.009	0	%100
37	MP1A	X	4.453	4.453	0	%100
38	MP1A	Z	7.713	7.713	0	%100
39	MP2A	X	4.453	4.453	0	%100
40	MP2A	Z	7.713	7.713	0	%100
41	MP3A	X	4.453	4.453	0	%100
42	MP3A	Z	7.713	7.713	0	%100
43	MP4A	X	4.453	4.453	0	%100
44	MP4A	Z	7.713	7.713	0	%100
45	MP1C	X	4.453	4.453	0	%100
46	MP1C	Z	7.713	7.713	0	%100
47	MP2C	X	4.453	4.453	0	%100
48	MP2C	Z	7.713	7.713	0	%100
49	MP3CA	X	4.453	4.453	0	%100
50	MP3CA	Z	7.713	7.713	0	%100
51	MP4CA	X	4.453	4.453	0	%100
52	MP4CA	Z	7.713	7.713	0	%100
53	MP1B	X	4.453	4.453	0	%100
54	MP1B	Z	7.713	7.713	0	%100
55	MP2B	X	4.453	4.453	0	%100
56	MP2B	Z	7.713	7.713	0	%100
57	MP3B	X	4.453	4.453	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	MP3B	Z	7.713	7.713	0	%100
59	MP4B	X	4.453	4.453	0	%100
60	MP4B	Z	7.713	7.713	0	%100
61	MP3C	X	4.453	4.453	0	%100
62	MP3C	Z	7.713	7.713	0	%100
63	M61	X	4.043	4.043	0	%100
64	M61	Z	7.002	7.002	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	4.043	4.043	0	%100
68	M71	Z	7.002	7.002	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	5.122	5.122	0	%100
72	M83	Z	8.872	8.872	0	%100
73	M84	X	5.122	5.122	0	%100
74	M84	Z	8.872	8.872	0	%100
75	M86	X	3.792	3.792	0	%100
76	M86	Z	6.568	6.568	0	%100
77	M88	X	9.375	9.375	0	%100
78	M88	Z	16.238	16.238	0	%100
79	M90	X	3.792	3.792	0	%100
80	M90	Z	6.568	6.568	0	%100
81	MP4C	X	4.453	4.453	0	%100
82	MP4C	Z	7.713	7.713	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	18.75	18.75	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	11.832	11.832	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	18.75	18.75	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	11.832	11.832	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	4.687	4.687	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	4.9e-5	4.9e-5	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	4.687	4.687	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	11.784	11.784	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	8.014	8.014	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	10.423	10.423	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	4.687	4.687	0	%100
27	M18	X	0	0	0	%100
28	M18	Z	11.784	11.784	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,%]
29	M19	X	0	0	0	%100
30	M19	Z	4.687	4.687	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	4.9e-5	4.9e-5	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	8.014	8.014	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	10.423	10.423	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	8.906	8.906	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	8.906	8.906	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	8.906	8.906	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	8.906	8.906	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	8.906	8.906	0	%100
47	MP2C	X	0	0	0	%100
48	MP2C	Z	8.906	8.906	0	%100
49	MP3CA	X	0	0	0	%100
50	MP3CA	Z	8.906	8.906	0	%100
51	MP4CA	X	0	0	0	%100
52	MP4CA	Z	8.906	8.906	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	8.906	8.906	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	8.906	8.906	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	8.906	8.906	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	8.906	8.906	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	8.906	8.906	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	10.781	10.781	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	2.695	2.695	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	2.695	2.695	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	3.415	3.415	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	3.415	3.415	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	13.66	13.66	0	%100
75	M86	X	0	0	0	%100
76	M86	Z	3.862	3.862	0	%100
77	M88	X	0	0	0	%100
78	M88	Z	15.028	15.028	0	%100
79	M90	X	0	0	0	%100
80	M90	Z	15.028	15.028	0	%100
81	MP4C	X	0	0	0	%100
82	MP4C	Z	8.906	8.906	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,%]

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,%]
1	M1	X	-7.031	-7.031	0	%100
2	M1	Z	12.178	12.178	0	%100
3	M2	X	-7.872	-7.872	0	%100
4	M2	Z	13.634	13.634	0	%100
5	M3	X	-7.031	-7.031	0	%100
6	M3	Z	12.178	12.178	0	%100
7	M4	X	-1.98	-1.98	0	%100
8	M4	Z	3.429	3.429	0	%100
9	M5	X	-1.336	-1.336	0	%100
10	M5	Z	2.313	2.313	0	%100
11	M8	X	-1.737	-1.737	0	%100
12	M8	Z	3.009	3.009	0	%100
13	M9	X	-7.031	-7.031	0	%100
14	M9	Z	12.178	12.178	0	%100
15	M10	X	-1.98	-1.98	0	%100
16	M10	Z	3.429	3.429	0	%100
17	M11	X	-7.031	-7.031	0	%100
18	M11	Z	12.178	12.178	0	%100
19	M12	X	-7.872	-7.872	0	%100
20	M12	Z	13.634	13.634	0	%100
21	M13	X	-1.336	-1.336	0	%100
22	M13	Z	2.313	2.313	0	%100
23	M16	X	-1.737	-1.737	0	%100
24	M16	Z	3.009	3.009	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	-1.956	-1.956	0	%100
28	M18	Z	3.388	3.388	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	-1.956	-1.956	0	%100
32	M20	Z	3.388	3.388	0	%100
33	M21	X	-5.343	-5.343	0	%100
34	M21	Z	9.254	9.254	0	%100
35	M24	X	-6.949	-6.949	0	%100
36	M24	Z	12.035	12.035	0	%100
37	MP1A	X	-4.453	-4.453	0	%100
38	MP1A	Z	7.713	7.713	0	%100
39	MP2A	X	-4.453	-4.453	0	%100
40	MP2A	Z	7.713	7.713	0	%100
41	MP3A	X	-4.453	-4.453	0	%100
42	MP3A	Z	7.713	7.713	0	%100
43	MP4A	X	-4.453	-4.453	0	%100
44	MP4A	Z	7.713	7.713	0	%100
45	MP1C	X	-4.453	-4.453	0	%100
46	MP1C	Z	7.713	7.713	0	%100
47	MP2C	X	-4.453	-4.453	0	%100
48	MP2C	Z	7.713	7.713	0	%100
49	MP3CA	X	-4.453	-4.453	0	%100
50	MP3CA	Z	7.713	7.713	0	%100
51	MP4CA	X	-4.453	-4.453	0	%100
52	MP4CA	Z	7.713	7.713	0	%100
53	MP1B	X	-4.453	-4.453	0	%100
54	MP1B	Z	7.713	7.713	0	%100
55	MP2B	X	-4.453	-4.453	0	%100
56	MP2B	Z	7.713	7.713	0	%100
57	MP3B	X	-4.453	-4.453	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	7.713	7.713	0	%100
59	MP4B	X	-4.453	-4.453	0	%100
60	MP4B	Z	7.713	7.713	0	%100
61	MP3C	X	-4.453	-4.453	0	%100
62	MP3C	Z	7.713	7.713	0	%100
63	M61	X	-4.043	-4.043	0	%100
64	M61	Z	7.002	7.002	0	%100
65	M66	X	-4.043	-4.043	0	%100
66	M66	Z	7.002	7.002	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	-5.122	-5.122	0	%100
70	M82	Z	8.872	8.872	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	-5.122	-5.122	0	%100
74	M84	Z	8.872	8.872	0	%100
75	M86	X	-3.792	-3.792	0	%100
76	M86	Z	6.568	6.568	0	%100
77	M88	X	-3.792	-3.792	0	%100
78	M88	Z	6.568	6.568	0	%100
79	M90	X	-9.375	-9.375	0	%100
80	M90	Z	16.238	16.238	0	%100
81	MP4C	X	-4.453	-4.453	0	%100
82	MP4C	Z	7.713	7.713	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	-4.059	-4.059	0	%100
2	M1	Z	2.344	2.344	0	%100
3	M2	X	-10.205	-10.205	0	%100
4	M2	Z	5.892	5.892	0	%100
5	M3	X	-4.059	-4.059	0	%100
6	M3	Z	2.344	2.344	0	%100
7	M4	X	-4.2e-5	-4.2e-5	0	%100
8	M4	Z	2.5e-5	2.5e-5	0	%100
9	M5	X	-6.94	-6.94	0	%100
10	M5	Z	4.007	4.007	0	%100
11	M8	X	-9.027	-9.027	0	%100
12	M8	Z	5.211	5.211	0	%100
13	M9	X	-16.238	-16.238	0	%100
14	M9	Z	9.375	9.375	0	%100
15	M10	X	-10.246	-10.246	0	%100
16	M10	Z	5.916	5.916	0	%100
17	M11	X	-16.238	-16.238	0	%100
18	M11	Z	9.375	9.375	0	%100
19	M12	X	-10.246	-10.246	0	%100
20	M12	Z	5.916	5.916	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	-4.059	-4.059	0	%100
26	M17	Z	2.344	2.344	0	%100
27	M18	X	-4.2e-5	-4.2e-5	0	%100
28	M18	Z	2.5e-5	2.5e-5	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,%]
29	M19	X	-4.059	-4.059	0	%100
30	M19	Z	2.344	2.344	0	%100
31	M20	X	-10.205	-10.205	0	%100
32	M20	Z	5.892	5.892	0	%100
33	M21	X	-6.94	-6.94	0	%100
34	M21	Z	4.007	4.007	0	%100
35	M24	X	-9.027	-9.027	0	%100
36	M24	Z	5.211	5.211	0	%100
37	MP1A	X	-7.713	-7.713	0	%100
38	MP1A	Z	4.453	4.453	0	%100
39	MP2A	X	-7.713	-7.713	0	%100
40	MP2A	Z	4.453	4.453	0	%100
41	MP3A	X	-7.713	-7.713	0	%100
42	MP3A	Z	4.453	4.453	0	%100
43	MP4A	X	-7.713	-7.713	0	%100
44	MP4A	Z	4.453	4.453	0	%100
45	MP1C	X	-7.713	-7.713	0	%100
46	MP1C	Z	4.453	4.453	0	%100
47	MP2C	X	-7.713	-7.713	0	%100
48	MP2C	Z	4.453	4.453	0	%100
49	MP3CA	X	-7.713	-7.713	0	%100
50	MP3CA	Z	4.453	4.453	0	%100
51	MP4CA	X	-7.713	-7.713	0	%100
52	MP4CA	Z	4.453	4.453	0	%100
53	MP1B	X	-7.713	-7.713	0	%100
54	MP1B	Z	4.453	4.453	0	%100
55	MP2B	X	-7.713	-7.713	0	%100
56	MP2B	Z	4.453	4.453	0	%100
57	MP3B	X	-7.713	-7.713	0	%100
58	MP3B	Z	4.453	4.453	0	%100
59	MP4B	X	-7.713	-7.713	0	%100
60	MP4B	Z	4.453	4.453	0	%100
61	MP3C	X	-7.713	-7.713	0	%100
62	MP3C	Z	4.453	4.453	0	%100
63	M61	X	-2.334	-2.334	0	%100
64	M61	Z	1.348	1.348	0	%100
65	M66	X	-9.337	-9.337	0	%100
66	M66	Z	5.39	5.39	0	%100
67	M71	X	-2.334	-2.334	0	%100
68	M71	Z	1.348	1.348	0	%100
69	M82	X	-11.83	-11.83	0	%100
70	M82	Z	6.83	6.83	0	%100
71	M83	X	-2.957	-2.957	0	%100
72	M83	Z	1.707	1.707	0	%100
73	M84	X	-2.957	-2.957	0	%100
74	M84	Z	1.707	1.707	0	%100
75	M86	X	-13.014	-13.014	0	%100
76	M86	Z	7.514	7.514	0	%100
77	M88	X	-3.345	-3.345	0	%100
78	M88	Z	1.931	1.931	0	%100
79	M90	X	-13.014	-13.014	0	%100
80	M90	Z	7.514	7.514	0	%100
81	MP4C	X	-7.713	-7.713	0	%100
82	MP4C	Z	4.453	4.453	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,%]

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,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.912	-3.912	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-3.912	-3.912	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-10.685	-10.685	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	-13.897	-13.897	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-14.062	-14.062	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-15.743	-15.743	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-14.062	-14.062	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-3.96	-3.96	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-2.671	-2.671	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	-3.474	-3.474	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	-14.062	-14.062	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	-3.96	-3.96	0	%100
28	M18	Z	0	0	0	%100
29	M19	X	-14.062	-14.062	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	-15.743	-15.743	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	-2.671	-2.671	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	-3.474	-3.474	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	-8.906	-8.906	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	-8.906	-8.906	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	-8.906	-8.906	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	-8.906	-8.906	0	%100
44	MP4A	Z	0	0	0	%100
45	MP1C	X	-8.906	-8.906	0	%100
46	MP1C	Z	0	0	0	%100
47	MP2C	X	-8.906	-8.906	0	%100
48	MP2C	Z	0	0	0	%100
49	MP3CA	X	-8.906	-8.906	0	%100
50	MP3CA	Z	0	0	0	%100
51	MP4CA	X	-8.906	-8.906	0	%100
52	MP4CA	Z	0	0	0	%100
53	MP1B	X	-8.906	-8.906	0	%100
54	MP1B	Z	0	0	0	%100
55	MP2B	X	-8.906	-8.906	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	-8.906	-8.906	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	0	0	0	%100
59	MP4B	X	-8.906	-8.906	0	%100
60	MP4B	Z	0	0	0	%100
61	MP3C	X	-8.906	-8.906	0	%100
62	MP3C	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M66	X	-8.086	-8.086	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	-8.086	-8.086	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	-10.245	-10.245	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	-10.245	-10.245	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	0	0	0	%100
75	M86	X	-18.75	-18.75	0	%100
76	M86	Z	0	0	0	%100
77	M88	X	-7.584	-7.584	0	%100
78	M88	Z	0	0	0	%100
79	M90	X	-7.584	-7.584	0	%100
80	M90	Z	0	0	0	%100
81	MP4C	X	-8.906	-8.906	0	%100
82	MP4C	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	-4.059	-4.059	0	%100
2	M1	Z	-2.344	-2.344	0	%100
3	M2	X	-4.2e-5	-4.2e-5	0	%100
4	M2	Z	-2.5e-5	-2.5e-5	0	%100
5	M3	X	-4.059	-4.059	0	%100
6	M3	Z	-2.344	-2.344	0	%100
7	M4	X	-10.205	-10.205	0	%100
8	M4	Z	-5.892	-5.892	0	%100
9	M5	X	-6.94	-6.94	0	%100
10	M5	Z	-4.007	-4.007	0	%100
11	M8	X	-9.027	-9.027	0	%100
12	M8	Z	-5.211	-5.211	0	%100
13	M9	X	-4.059	-4.059	0	%100
14	M9	Z	-2.344	-2.344	0	%100
15	M10	X	-10.205	-10.205	0	%100
16	M10	Z	-5.892	-5.892	0	%100
17	M11	X	-4.059	-4.059	0	%100
18	M11	Z	-2.344	-2.344	0	%100
19	M12	X	-4.2e-5	-4.2e-5	0	%100
20	M12	Z	-2.5e-5	-2.5e-5	0	%100
21	M13	X	-6.94	-6.94	0	%100
22	M13	Z	-4.007	-4.007	0	%100
23	M16	X	-9.027	-9.027	0	%100
24	M16	Z	-5.211	-5.211	0	%100
25	M17	X	-16.238	-16.238	0	%100
26	M17	Z	-9.375	-9.375	0	%100
27	M18	X	-10.246	-10.246	0	%100
28	M18	Z	-5.916	-5.916	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,%]
29	M19	X	-16.238	-16.238	0	%100
30	M19	Z	-9.375	-9.375	0	%100
31	M20	X	-10.246	-10.246	0	%100
32	M20	Z	-5.916	-5.916	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	-7.713	-7.713	0	%100
38	MP1A	Z	-4.453	-4.453	0	%100
39	MP2A	X	-7.713	-7.713	0	%100
40	MP2A	Z	-4.453	-4.453	0	%100
41	MP3A	X	-7.713	-7.713	0	%100
42	MP3A	Z	-4.453	-4.453	0	%100
43	MP4A	X	-7.713	-7.713	0	%100
44	MP4A	Z	-4.453	-4.453	0	%100
45	MP1C	X	-7.713	-7.713	0	%100
46	MP1C	Z	-4.453	-4.453	0	%100
47	MP2C	X	-7.713	-7.713	0	%100
48	MP2C	Z	-4.453	-4.453	0	%100
49	MP3CA	X	-7.713	-7.713	0	%100
50	MP3CA	Z	-4.453	-4.453	0	%100
51	MP4CA	X	-7.713	-7.713	0	%100
52	MP4CA	Z	-4.453	-4.453	0	%100
53	MP1B	X	-7.713	-7.713	0	%100
54	MP1B	Z	-4.453	-4.453	0	%100
55	MP2B	X	-7.713	-7.713	0	%100
56	MP2B	Z	-4.453	-4.453	0	%100
57	MP3B	X	-7.713	-7.713	0	%100
58	MP3B	Z	-4.453	-4.453	0	%100
59	MP4B	X	-7.713	-7.713	0	%100
60	MP4B	Z	-4.453	-4.453	0	%100
61	MP3C	X	-7.713	-7.713	0	%100
62	MP3C	Z	-4.453	-4.453	0	%100
63	M61	X	-2.334	-2.334	0	%100
64	M61	Z	-1.348	-1.348	0	%100
65	M66	X	-2.334	-2.334	0	%100
66	M66	Z	-1.348	-1.348	0	%100
67	M71	X	-9.337	-9.337	0	%100
68	M71	Z	-5.39	-5.39	0	%100
69	M82	X	-2.957	-2.957	0	%100
70	M82	Z	-1.707	-1.707	0	%100
71	M83	X	-11.83	-11.83	0	%100
72	M83	Z	-6.83	-6.83	0	%100
73	M84	X	-2.957	-2.957	0	%100
74	M84	Z	-1.707	-1.707	0	%100
75	M86	X	-13.014	-13.014	0	%100
76	M86	Z	-7.514	-7.514	0	%100
77	M88	X	-13.014	-13.014	0	%100
78	M88	Z	-7.514	-7.514	0	%100
79	M90	X	-3.345	-3.345	0	%100
80	M90	Z	-1.931	-1.931	0	%100
81	MP4C	X	-7.713	-7.713	0	%100
82	MP4C	Z	-4.453	-4.453	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,%]

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,%]
1	M1	X	-7.031	-7.031	0	%100
2	M1	Z	-12.178	-12.178	0	%100
3	M2	X	-1.98	-1.98	0	%100
4	M2	Z	-3.429	-3.429	0	%100
5	M3	X	-7.031	-7.031	0	%100
6	M3	Z	-12.178	-12.178	0	%100
7	M4	X	-7.872	-7.872	0	%100
8	M4	Z	-13.634	-13.634	0	%100
9	M5	X	-1.336	-1.336	0	%100
10	M5	Z	-2.313	-2.313	0	%100
11	M8	X	-1.737	-1.737	0	%100
12	M8	Z	-3.009	-3.009	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-1.956	-1.956	0	%100
16	M10	Z	-3.388	-3.388	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-1.956	-1.956	0	%100
20	M12	Z	-3.388	-3.388	0	%100
21	M13	X	-5.343	-5.343	0	%100
22	M13	Z	-9.254	-9.254	0	%100
23	M16	X	-6.949	-6.949	0	%100
24	M16	Z	-12.035	-12.035	0	%100
25	M17	X	-7.031	-7.031	0	%100
26	M17	Z	-12.178	-12.178	0	%100
27	M18	X	-7.872	-7.872	0	%100
28	M18	Z	-13.634	-13.634	0	%100
29	M19	X	-7.031	-7.031	0	%100
30	M19	Z	-12.178	-12.178	0	%100
31	M20	X	-1.98	-1.98	0	%100
32	M20	Z	-3.429	-3.429	0	%100
33	M21	X	-1.336	-1.336	0	%100
34	M21	Z	-2.313	-2.313	0	%100
35	M24	X	-1.737	-1.737	0	%100
36	M24	Z	-3.009	-3.009	0	%100
37	MP1A	X	-4.453	-4.453	0	%100
38	MP1A	Z	-7.713	-7.713	0	%100
39	MP2A	X	-4.453	-4.453	0	%100
40	MP2A	Z	-7.713	-7.713	0	%100
41	MP3A	X	-4.453	-4.453	0	%100
42	MP3A	Z	-7.713	-7.713	0	%100
43	MP4A	X	-4.453	-4.453	0	%100
44	MP4A	Z	-7.713	-7.713	0	%100
45	MP1C	X	-4.453	-4.453	0	%100
46	MP1C	Z	-7.713	-7.713	0	%100
47	MP2C	X	-4.453	-4.453	0	%100
48	MP2C	Z	-7.713	-7.713	0	%100
49	MP3CA	X	-4.453	-4.453	0	%100
50	MP3CA	Z	-7.713	-7.713	0	%100
51	MP4CA	X	-4.453	-4.453	0	%100
52	MP4CA	Z	-7.713	-7.713	0	%100
53	MP1B	X	-4.453	-4.453	0	%100
54	MP1B	Z	-7.713	-7.713	0	%100
55	MP2B	X	-4.453	-4.453	0	%100
56	MP2B	Z	-7.713	-7.713	0	%100
57	MP3B	X	-4.453	-4.453	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-7.713	-7.713	0	%100
59	MP4B	X	-4.453	-4.453	0	%100
60	MP4B	Z	-7.713	-7.713	0	%100
61	MP3C	X	-4.453	-4.453	0	%100
62	MP3C	Z	-7.713	-7.713	0	%100
63	M61	X	-4.043	-4.043	0	%100
64	M61	Z	-7.002	-7.002	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	-4.043	-4.043	0	%100
68	M71	Z	-7.002	-7.002	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	-5.122	-5.122	0	%100
72	M83	Z	-8.872	-8.872	0	%100
73	M84	X	-5.122	-5.122	0	%100
74	M84	Z	-8.872	-8.872	0	%100
75	M86	X	-3.792	-3.792	0	%100
76	M86	Z	-6.568	-6.568	0	%100
77	M88	X	-9.375	-9.375	0	%100
78	M88	Z	-16.238	-16.238	0	%100
79	M90	X	-3.792	-3.792	0	%100
80	M90	Z	-6.568	-6.568	0	%100
81	MP4C	X	-4.453	-4.453	0	%100
82	MP4C	Z	-7.713	-7.713	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	-5.83	-5.83	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.593	-3.593	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-5.83	-5.83	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-3.593	-3.593	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-1.458	-1.458	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-1.5e-5	-1.5e-5	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-1.458	-1.458	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-3.578	-3.578	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-2.548	-2.548	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	-3.104	-3.104	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-1.458	-1.458	0	%100
27	M18	X	0	0	0	%100
28	M18	Z	-3.578	-3.578	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,%]
29	M19	X	0	0	0	%100
30	M19	Z	-1.458	-1.458	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	-1.5e-5	-1.5e-5	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	-2.548	-2.548	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	-3.104	-3.104	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-3.844	-3.844	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	-3.844	-3.844	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	-3.844	-3.844	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	-3.844	-3.844	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	-3.844	-3.844	0	%100
47	MP2C	X	0	0	0	%100
48	MP2C	Z	-3.844	-3.844	0	%100
49	MP3CA	X	0	0	0	%100
50	MP3CA	Z	-3.844	-3.844	0	%100
51	MP4CA	X	0	0	0	%100
52	MP4CA	Z	-3.844	-3.844	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-3.844	-3.844	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	-3.844	-3.844	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	-3.844	-3.844	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	-3.844	-3.844	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	-3.844	-3.844	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	-4.35	-4.35	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	-1.087	-1.087	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	-1.087	-1.087	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	-1.034	-1.034	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	-1.034	-1.034	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	-4.135	-4.135	0	%100
75	M86	X	0	0	0	%100
76	M86	Z	-.983	-.983	0	%100
77	M88	X	0	0	0	%100
78	M88	Z	-4.533	-4.533	0	%100
79	M90	X	0	0	0	%100
80	M90	Z	-4.533	-4.533	0	%100
81	MP4C	X	0	0	0	%100
82	MP4C	Z	-3.844	-3.844	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,%]

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,%]
1	M1	X	2.186	2.186	0	%100
2	M1	Z	-3.787	-3.787	0	%100
3	M2	X	2.39	2.39	0	%100
4	M2	Z	-4.14	-4.14	0	%100
5	M3	X	2.186	2.186	0	%100
6	M3	Z	-3.787	-3.787	0	%100
7	M4	X	.601	.601	0	%100
8	M4	Z	-1.041	-1.041	0	%100
9	M5	X	.425	.425	0	%100
10	M5	Z	-.735	-.735	0	%100
11	M8	X	.517	.517	0	%100
12	M8	Z	-.896	-.896	0	%100
13	M9	X	2.186	2.186	0	%100
14	M9	Z	-3.787	-3.787	0	%100
15	M10	X	.601	.601	0	%100
16	M10	Z	-1.041	-1.041	0	%100
17	M11	X	2.186	2.186	0	%100
18	M11	Z	-3.787	-3.787	0	%100
19	M12	X	2.39	2.39	0	%100
20	M12	Z	-4.14	-4.14	0	%100
21	M13	X	.425	.425	0	%100
22	M13	Z	-.735	-.735	0	%100
23	M16	X	.517	.517	0	%100
24	M16	Z	-.896	-.896	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	.594	.594	0	%100
28	M18	Z	-1.029	-1.029	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	.594	.594	0	%100
32	M20	Z	-1.029	-1.029	0	%100
33	M21	X	1.699	1.699	0	%100
34	M21	Z	-2.942	-2.942	0	%100
35	M24	X	2.069	2.069	0	%100
36	M24	Z	-3.584	-3.584	0	%100
37	MP1A	X	1.922	1.922	0	%100
38	MP1A	Z	-3.329	-3.329	0	%100
39	MP2A	X	1.922	1.922	0	%100
40	MP2A	Z	-3.329	-3.329	0	%100
41	MP3A	X	1.922	1.922	0	%100
42	MP3A	Z	-3.329	-3.329	0	%100
43	MP4A	X	1.922	1.922	0	%100
44	MP4A	Z	-3.329	-3.329	0	%100
45	MP1C	X	1.922	1.922	0	%100
46	MP1C	Z	-3.329	-3.329	0	%100
47	MP2C	X	1.922	1.922	0	%100
48	MP2C	Z	-3.329	-3.329	0	%100
49	MP3CA	X	1.922	1.922	0	%100
50	MP3CA	Z	-3.329	-3.329	0	%100
51	MP4CA	X	1.922	1.922	0	%100
52	MP4CA	Z	-3.329	-3.329	0	%100
53	MP1B	X	1.922	1.922	0	%100
54	MP1B	Z	-3.329	-3.329	0	%100
55	MP2B	X	1.922	1.922	0	%100
56	MP2B	Z	-3.329	-3.329	0	%100
57	MP3B	X	1.922	1.922	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-3.329	-3.329	0	%100
59	MP4B	X	1.922	1.922	0	%100
60	MP4B	Z	-3.329	-3.329	0	%100
61	MP3C	X	1.922	1.922	0	%100
62	MP3C	Z	-3.329	-3.329	0	%100
63	M61	X	1.631	1.631	0	%100
64	M61	Z	-2.825	-2.825	0	%100
65	M66	X	1.631	1.631	0	%100
66	M66	Z	-2.825	-2.825	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	1.551	1.551	0	%100
70	M82	Z	-2.686	-2.686	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	1.551	1.551	0	%100
74	M84	Z	-2.686	-2.686	0	%100
75	M86	X	1.083	1.083	0	%100
76	M86	Z	-1.876	-1.876	0	%100
77	M88	X	1.083	1.083	0	%100
78	M88	Z	-1.876	-1.876	0	%100
79	M90	X	2.858	2.858	0	%100
80	M90	Z	-4.95	-4.95	0	%100
81	MP4C	X	1.922	1.922	0	%100
82	MP4C	Z	-3.329	-3.329	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	1.262	1.262	0	%100
2	M1	Z	-.729	-.729	0	%100
3	M2	X	3.099	3.099	0	%100
4	M2	Z	-1.789	-1.789	0	%100
5	M3	X	1.262	1.262	0	%100
6	M3	Z	-.729	-.729	0	%100
7	M4	X	1.3e-5	1.3e-5	0	%100
8	M4	Z	-7e-6	-7e-6	0	%100
9	M5	X	2.206	2.206	0	%100
10	M5	Z	-1.274	-1.274	0	%100
11	M8	X	2.688	2.688	0	%100
12	M8	Z	-1.552	-1.552	0	%100
13	M9	X	5.049	5.049	0	%100
14	M9	Z	-2.915	-2.915	0	%100
15	M10	X	3.111	3.111	0	%100
16	M10	Z	-1.796	-1.796	0	%100
17	M11	X	5.049	5.049	0	%100
18	M11	Z	-2.915	-2.915	0	%100
19	M12	X	3.111	3.111	0	%100
20	M12	Z	-1.796	-1.796	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	1.262	1.262	0	%100
26	M17	Z	-.729	-.729	0	%100
27	M18	X	1.3e-5	1.3e-5	0	%100
28	M18	Z	-7e-6	-7e-6	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,%]
29	M19	X	1.262	1.262	0	%100
30	M19	Z	-.729	-.729	0	%100
31	M20	X	3.099	3.099	0	%100
32	M20	Z	-1.789	-1.789	0	%100
33	M21	X	2.206	2.206	0	%100
34	M21	Z	-1.274	-1.274	0	%100
35	M24	X	2.688	2.688	0	%100
36	M24	Z	-1.552	-1.552	0	%100
37	MP1A	X	3.329	3.329	0	%100
38	MP1A	Z	-1.922	-1.922	0	%100
39	MP2A	X	3.329	3.329	0	%100
40	MP2A	Z	-1.922	-1.922	0	%100
41	MP3A	X	3.329	3.329	0	%100
42	MP3A	Z	-1.922	-1.922	0	%100
43	MP4A	X	3.329	3.329	0	%100
44	MP4A	Z	-1.922	-1.922	0	%100
45	MP1C	X	3.329	3.329	0	%100
46	MP1C	Z	-1.922	-1.922	0	%100
47	MP2C	X	3.329	3.329	0	%100
48	MP2C	Z	-1.922	-1.922	0	%100
49	MP3CA	X	3.329	3.329	0	%100
50	MP3CA	Z	-1.922	-1.922	0	%100
51	MP4CA	X	3.329	3.329	0	%100
52	MP4CA	Z	-1.922	-1.922	0	%100
53	MP1B	X	3.329	3.329	0	%100
54	MP1B	Z	-1.922	-1.922	0	%100
55	MP2B	X	3.329	3.329	0	%100
56	MP2B	Z	-1.922	-1.922	0	%100
57	MP3B	X	3.329	3.329	0	%100
58	MP3B	Z	-1.922	-1.922	0	%100
59	MP4B	X	3.329	3.329	0	%100
60	MP4B	Z	-1.922	-1.922	0	%100
61	MP3C	X	3.329	3.329	0	%100
62	MP3C	Z	-1.922	-1.922	0	%100
63	M61	X	.942	.942	0	%100
64	M61	Z	-.544	-.544	0	%100
65	M66	X	3.767	3.767	0	%100
66	M66	Z	-2.175	-2.175	0	%100
67	M71	X	.942	.942	0	%100
68	M71	Z	-.544	-.544	0	%100
69	M82	X	3.581	3.581	0	%100
70	M82	Z	-2.068	-2.068	0	%100
71	M83	X	.895	.895	0	%100
72	M83	Z	-.517	-.517	0	%100
73	M84	X	.895	.895	0	%100
74	M84	Z	-.517	-.517	0	%100
75	M86	X	3.926	3.926	0	%100
76	M86	Z	-2.266	-2.266	0	%100
77	M88	X	.852	.852	0	%100
78	M88	Z	-.492	-.492	0	%100
79	M90	X	3.926	3.926	0	%100
80	M90	Z	-2.266	-2.266	0	%100
81	MP4C	X	3.329	3.329	0	%100
82	MP4C	Z	-1.922	-1.922	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,%]

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,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	1.188	1.188	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	1.188	1.188	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	3.397	3.397	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	4.139	4.139	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	4.373	4.373	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	4.78	4.78	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	4.373	4.373	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	1.202	1.202	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	.849	.849	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	1.035	1.035	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	4.373	4.373	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	1.202	1.202	0	%100
28	M18	Z	0	0	0	%100
29	M19	X	4.373	4.373	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	4.78	4.78	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	.849	.849	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	1.035	1.035	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	3.844	3.844	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	3.844	3.844	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	3.844	3.844	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	3.844	3.844	0	%100
44	MP4A	Z	0	0	0	%100
45	MP1C	X	3.844	3.844	0	%100
46	MP1C	Z	0	0	0	%100
47	MP2C	X	3.844	3.844	0	%100
48	MP2C	Z	0	0	0	%100
49	MP3CA	X	3.844	3.844	0	%100
50	MP3CA	Z	0	0	0	%100
51	MP4CA	X	3.844	3.844	0	%100
52	MP4CA	Z	0	0	0	%100
53	MP1B	X	3.844	3.844	0	%100
54	MP1B	Z	0	0	0	%100
55	MP2B	X	3.844	3.844	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	3.844	3.844	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	0	0	0	%100
59	MP4B	X	3.844	3.844	0	%100
60	MP4B	Z	0	0	0	%100
61	MP3C	X	3.844	3.844	0	%100
62	MP3C	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M66	X	3.262	3.262	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	3.262	3.262	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	3.101	3.101	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	3.101	3.101	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	0	0	0	%100
75	M86	X	5.716	5.716	0	%100
76	M86	Z	0	0	0	%100
77	M88	X	2.166	2.166	0	%100
78	M88	Z	0	0	0	%100
79	M90	X	2.166	2.166	0	%100
80	M90	Z	0	0	0	%100
81	MP4C	X	3.844	3.844	0	%100
82	MP4C	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	1.262	1.262	0	%100
2	M1	Z	.729	.729	0	%100
3	M2	X	1.3e-5	1.3e-5	0	%100
4	M2	Z	7e-6	7e-6	0	%100
5	M3	X	1.262	1.262	0	%100
6	M3	Z	.729	.729	0	%100
7	M4	X	3.099	3.099	0	%100
8	M4	Z	1.789	1.789	0	%100
9	M5	X	2.206	2.206	0	%100
10	M5	Z	1.274	1.274	0	%100
11	M8	X	2.688	2.688	0	%100
12	M8	Z	1.552	1.552	0	%100
13	M9	X	1.262	1.262	0	%100
14	M9	Z	.729	.729	0	%100
15	M10	X	3.099	3.099	0	%100
16	M10	Z	1.789	1.789	0	%100
17	M11	X	1.262	1.262	0	%100
18	M11	Z	.729	.729	0	%100
19	M12	X	1.3e-5	1.3e-5	0	%100
20	M12	Z	7e-6	7e-6	0	%100
21	M13	X	2.206	2.206	0	%100
22	M13	Z	1.274	1.274	0	%100
23	M16	X	2.688	2.688	0	%100
24	M16	Z	1.552	1.552	0	%100
25	M17	X	5.049	5.049	0	%100
26	M17	Z	2.915	2.915	0	%100
27	M18	X	3.111	3.111	0	%100
28	M18	Z	1.796	1.796	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,%]
29	M19	X	5.049	5.049	0	%100
30	M19	Z	2.915	2.915	0	%100
31	M20	X	3.111	3.111	0	%100
32	M20	Z	1.796	1.796	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	3.329	3.329	0	%100
38	MP1A	Z	1.922	1.922	0	%100
39	MP2A	X	3.329	3.329	0	%100
40	MP2A	Z	1.922	1.922	0	%100
41	MP3A	X	3.329	3.329	0	%100
42	MP3A	Z	1.922	1.922	0	%100
43	MP4A	X	3.329	3.329	0	%100
44	MP4A	Z	1.922	1.922	0	%100
45	MP1C	X	3.329	3.329	0	%100
46	MP1C	Z	1.922	1.922	0	%100
47	MP2C	X	3.329	3.329	0	%100
48	MP2C	Z	1.922	1.922	0	%100
49	MP3CA	X	3.329	3.329	0	%100
50	MP3CA	Z	1.922	1.922	0	%100
51	MP4CA	X	3.329	3.329	0	%100
52	MP4CA	Z	1.922	1.922	0	%100
53	MP1B	X	3.329	3.329	0	%100
54	MP1B	Z	1.922	1.922	0	%100
55	MP2B	X	3.329	3.329	0	%100
56	MP2B	Z	1.922	1.922	0	%100
57	MP3B	X	3.329	3.329	0	%100
58	MP3B	Z	1.922	1.922	0	%100
59	MP4B	X	3.329	3.329	0	%100
60	MP4B	Z	1.922	1.922	0	%100
61	MP3C	X	3.329	3.329	0	%100
62	MP3C	Z	1.922	1.922	0	%100
63	M61	X	.942	.942	0	%100
64	M61	Z	.544	.544	0	%100
65	M66	X	.942	.942	0	%100
66	M66	Z	.544	.544	0	%100
67	M71	X	3.767	3.767	0	%100
68	M71	Z	2.175	2.175	0	%100
69	M82	X	.895	.895	0	%100
70	M82	Z	.517	.517	0	%100
71	M83	X	3.581	3.581	0	%100
72	M83	Z	2.068	2.068	0	%100
73	M84	X	.895	.895	0	%100
74	M84	Z	.517	.517	0	%100
75	M86	X	3.926	3.926	0	%100
76	M86	Z	2.266	2.266	0	%100
77	M88	X	3.926	3.926	0	%100
78	M88	Z	2.266	2.266	0	%100
79	M90	X	.852	.852	0	%100
80	M90	Z	.492	.492	0	%100
81	MP4C	X	3.329	3.329	0	%100
82	MP4C	Z	1.922	1.922	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,%]

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,%]
1	M1	X	2.186	2.186	0	%100
2	M1	Z	3.787	3.787	0	%100
3	M2	X	.601	.601	0	%100
4	M2	Z	1.041	1.041	0	%100
5	M3	X	2.186	2.186	0	%100
6	M3	Z	3.787	3.787	0	%100
7	M4	X	2.39	2.39	0	%100
8	M4	Z	4.14	4.14	0	%100
9	M5	X	.425	.425	0	%100
10	M5	Z	.735	.735	0	%100
11	M8	X	.517	.517	0	%100
12	M8	Z	.896	.896	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	.594	.594	0	%100
16	M10	Z	1.029	1.029	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	.594	.594	0	%100
20	M12	Z	1.029	1.029	0	%100
21	M13	X	1.699	1.699	0	%100
22	M13	Z	2.942	2.942	0	%100
23	M16	X	2.069	2.069	0	%100
24	M16	Z	3.584	3.584	0	%100
25	M17	X	2.186	2.186	0	%100
26	M17	Z	3.787	3.787	0	%100
27	M18	X	2.39	2.39	0	%100
28	M18	Z	4.14	4.14	0	%100
29	M19	X	2.186	2.186	0	%100
30	M19	Z	3.787	3.787	0	%100
31	M20	X	.601	.601	0	%100
32	M20	Z	1.041	1.041	0	%100
33	M21	X	.425	.425	0	%100
34	M21	Z	.735	.735	0	%100
35	M24	X	.517	.517	0	%100
36	M24	Z	.896	.896	0	%100
37	MP1A	X	1.922	1.922	0	%100
38	MP1A	Z	3.329	3.329	0	%100
39	MP2A	X	1.922	1.922	0	%100
40	MP2A	Z	3.329	3.329	0	%100
41	MP3A	X	1.922	1.922	0	%100
42	MP3A	Z	3.329	3.329	0	%100
43	MP4A	X	1.922	1.922	0	%100
44	MP4A	Z	3.329	3.329	0	%100
45	MP1C	X	1.922	1.922	0	%100
46	MP1C	Z	3.329	3.329	0	%100
47	MP2C	X	1.922	1.922	0	%100
48	MP2C	Z	3.329	3.329	0	%100
49	MP3CA	X	1.922	1.922	0	%100
50	MP3CA	Z	3.329	3.329	0	%100
51	MP4CA	X	1.922	1.922	0	%100
52	MP4CA	Z	3.329	3.329	0	%100
53	MP1B	X	1.922	1.922	0	%100
54	MP1B	Z	3.329	3.329	0	%100
55	MP2B	X	1.922	1.922	0	%100
56	MP2B	Z	3.329	3.329	0	%100
57	MP3B	X	1.922	1.922	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	MP3B	Z	3.329	3.329	0	%100
59	MP4B	X	1.922	1.922	0	%100
60	MP4B	Z	3.329	3.329	0	%100
61	MP3C	X	1.922	1.922	0	%100
62	MP3C	Z	3.329	3.329	0	%100
63	M61	X	1.631	1.631	0	%100
64	M61	Z	2.825	2.825	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	1.631	1.631	0	%100
68	M71	Z	2.825	2.825	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	1.551	1.551	0	%100
72	M83	Z	2.686	2.686	0	%100
73	M84	X	1.551	1.551	0	%100
74	M84	Z	2.686	2.686	0	%100
75	M86	X	1.083	1.083	0	%100
76	M86	Z	1.876	1.876	0	%100
77	M88	X	2.858	2.858	0	%100
78	M88	Z	4.95	4.95	0	%100
79	M90	X	1.083	1.083	0	%100
80	M90	Z	1.876	1.876	0	%100
81	MP4C	X	1.922	1.922	0	%100
82	MP4C	Z	3.329	3.329	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	5.83	5.83	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.593	3.593	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	5.83	5.83	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	3.593	3.593	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	1.458	1.458	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	1.5e-5	1.5e-5	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	1.458	1.458	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	3.578	3.578	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	2.548	2.548	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	3.104	3.104	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	1.458	1.458	0	%100
27	M18	X	0	0	0	%100
28	M18	Z	3.578	3.578	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,%]
29	M19	X	0	0	0	%100
30	M19	Z	1.458	1.458	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	1.5e-5	1.5e-5	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	2.548	2.548	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	3.104	3.104	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	3.844	3.844	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	3.844	3.844	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	3.844	3.844	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	3.844	3.844	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	3.844	3.844	0	%100
47	MP2C	X	0	0	0	%100
48	MP2C	Z	3.844	3.844	0	%100
49	MP3CA	X	0	0	0	%100
50	MP3CA	Z	3.844	3.844	0	%100
51	MP4CA	X	0	0	0	%100
52	MP4CA	Z	3.844	3.844	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	3.844	3.844	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	3.844	3.844	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	3.844	3.844	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	3.844	3.844	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	3.844	3.844	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	4.35	4.35	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	1.087	1.087	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	1.087	1.087	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	1.034	1.034	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	1.034	1.034	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	4.135	4.135	0	%100
75	M86	X	0	0	0	%100
76	M86	Z	.983	.983	0	%100
77	M88	X	0	0	0	%100
78	M88	Z	4.533	4.533	0	%100
79	M90	X	0	0	0	%100
80	M90	Z	4.533	4.533	0	%100
81	MP4C	X	0	0	0	%100
82	MP4C	Z	3.844	3.844	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,%]

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,%]
1	M1	X	-2.186	-2.186	0	%100
2	M1	Z	3.787	3.787	0	%100
3	M2	X	-2.39	-2.39	0	%100
4	M2	Z	4.14	4.14	0	%100
5	M3	X	-2.186	-2.186	0	%100
6	M3	Z	3.787	3.787	0	%100
7	M4	X	-.601	-.601	0	%100
8	M4	Z	1.041	1.041	0	%100
9	M5	X	-.425	-.425	0	%100
10	M5	Z	.735	.735	0	%100
11	M8	X	-.517	-.517	0	%100
12	M8	Z	.896	.896	0	%100
13	M9	X	-2.186	-2.186	0	%100
14	M9	Z	3.787	3.787	0	%100
15	M10	X	-.601	-.601	0	%100
16	M10	Z	1.041	1.041	0	%100
17	M11	X	-2.186	-2.186	0	%100
18	M11	Z	3.787	3.787	0	%100
19	M12	X	-2.39	-2.39	0	%100
20	M12	Z	4.14	4.14	0	%100
21	M13	X	-.425	-.425	0	%100
22	M13	Z	.735	.735	0	%100
23	M16	X	-.517	-.517	0	%100
24	M16	Z	.896	.896	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	-.594	-.594	0	%100
28	M18	Z	1.029	1.029	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	-.594	-.594	0	%100
32	M20	Z	1.029	1.029	0	%100
33	M21	X	-1.699	-1.699	0	%100
34	M21	Z	2.942	2.942	0	%100
35	M24	X	-2.069	-2.069	0	%100
36	M24	Z	3.584	3.584	0	%100
37	MP1A	X	-1.922	-1.922	0	%100
38	MP1A	Z	3.329	3.329	0	%100
39	MP2A	X	-1.922	-1.922	0	%100
40	MP2A	Z	3.329	3.329	0	%100
41	MP3A	X	-1.922	-1.922	0	%100
42	MP3A	Z	3.329	3.329	0	%100
43	MP4A	X	-1.922	-1.922	0	%100
44	MP4A	Z	3.329	3.329	0	%100
45	MP1C	X	-1.922	-1.922	0	%100
46	MP1C	Z	3.329	3.329	0	%100
47	MP2C	X	-1.922	-1.922	0	%100
48	MP2C	Z	3.329	3.329	0	%100
49	MP3CA	X	-1.922	-1.922	0	%100
50	MP3CA	Z	3.329	3.329	0	%100
51	MP4CA	X	-1.922	-1.922	0	%100
52	MP4CA	Z	3.329	3.329	0	%100
53	MP1B	X	-1.922	-1.922	0	%100
54	MP1B	Z	3.329	3.329	0	%100
55	MP2B	X	-1.922	-1.922	0	%100
56	MP2B	Z	3.329	3.329	0	%100
57	MP3B	X	-1.922	-1.922	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	3.329	3.329	0	%100
59	MP4B	X	-1.922	-1.922	0	%100
60	MP4B	Z	3.329	3.329	0	%100
61	MP3C	X	-1.922	-1.922	0	%100
62	MP3C	Z	3.329	3.329	0	%100
63	M61	X	-1.631	-1.631	0	%100
64	M61	Z	2.825	2.825	0	%100
65	M66	X	-1.631	-1.631	0	%100
66	M66	Z	2.825	2.825	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	-1.551	-1.551	0	%100
70	M82	Z	2.686	2.686	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	-1.551	-1.551	0	%100
74	M84	Z	2.686	2.686	0	%100
75	M86	X	-1.083	-1.083	0	%100
76	M86	Z	1.876	1.876	0	%100
77	M88	X	-1.083	-1.083	0	%100
78	M88	Z	1.876	1.876	0	%100
79	M90	X	-2.858	-2.858	0	%100
80	M90	Z	4.95	4.95	0	%100
81	MP4C	X	-1.922	-1.922	0	%100
82	MP4C	Z	3.329	3.329	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	-1.262	-1.262	0	%100
2	M1	Z	.729	.729	0	%100
3	M2	X	-3.099	-3.099	0	%100
4	M2	Z	1.789	1.789	0	%100
5	M3	X	-1.262	-1.262	0	%100
6	M3	Z	.729	.729	0	%100
7	M4	X	-1.3e-5	-1.3e-5	0	%100
8	M4	Z	7e-6	7e-6	0	%100
9	M5	X	-2.206	-2.206	0	%100
10	M5	Z	1.274	1.274	0	%100
11	M8	X	-2.688	-2.688	0	%100
12	M8	Z	1.552	1.552	0	%100
13	M9	X	-5.049	-5.049	0	%100
14	M9	Z	2.915	2.915	0	%100
15	M10	X	-3.111	-3.111	0	%100
16	M10	Z	1.796	1.796	0	%100
17	M11	X	-5.049	-5.049	0	%100
18	M11	Z	2.915	2.915	0	%100
19	M12	X	-3.111	-3.111	0	%100
20	M12	Z	1.796	1.796	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	-1.262	-1.262	0	%100
26	M17	Z	.729	.729	0	%100
27	M18	X	-1.3e-5	-1.3e-5	0	%100
28	M18	Z	7e-6	7e-6	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,%]
29	M19	X	-1.262	-1.262	0	%100
30	M19	Z	.729	.729	0	%100
31	M20	X	-3.099	-3.099	0	%100
32	M20	Z	1.789	1.789	0	%100
33	M21	X	-2.206	-2.206	0	%100
34	M21	Z	1.274	1.274	0	%100
35	M24	X	-2.688	-2.688	0	%100
36	M24	Z	1.552	1.552	0	%100
37	MP1A	X	-3.329	-3.329	0	%100
38	MP1A	Z	1.922	1.922	0	%100
39	MP2A	X	-3.329	-3.329	0	%100
40	MP2A	Z	1.922	1.922	0	%100
41	MP3A	X	-3.329	-3.329	0	%100
42	MP3A	Z	1.922	1.922	0	%100
43	MP4A	X	-3.329	-3.329	0	%100
44	MP4A	Z	1.922	1.922	0	%100
45	MP1C	X	-3.329	-3.329	0	%100
46	MP1C	Z	1.922	1.922	0	%100
47	MP2C	X	-3.329	-3.329	0	%100
48	MP2C	Z	1.922	1.922	0	%100
49	MP3CA	X	-3.329	-3.329	0	%100
50	MP3CA	Z	1.922	1.922	0	%100
51	MP4CA	X	-3.329	-3.329	0	%100
52	MP4CA	Z	1.922	1.922	0	%100
53	MP1B	X	-3.329	-3.329	0	%100
54	MP1B	Z	1.922	1.922	0	%100
55	MP2B	X	-3.329	-3.329	0	%100
56	MP2B	Z	1.922	1.922	0	%100
57	MP3B	X	-3.329	-3.329	0	%100
58	MP3B	Z	1.922	1.922	0	%100
59	MP4B	X	-3.329	-3.329	0	%100
60	MP4B	Z	1.922	1.922	0	%100
61	MP3C	X	-3.329	-3.329	0	%100
62	MP3C	Z	1.922	1.922	0	%100
63	M61	X	-.942	-.942	0	%100
64	M61	Z	.544	.544	0	%100
65	M66	X	-3.767	-3.767	0	%100
66	M66	Z	2.175	2.175	0	%100
67	M71	X	-.942	-.942	0	%100
68	M71	Z	.544	.544	0	%100
69	M82	X	-3.581	-3.581	0	%100
70	M82	Z	2.068	2.068	0	%100
71	M83	X	-.895	-.895	0	%100
72	M83	Z	.517	.517	0	%100
73	M84	X	-.895	-.895	0	%100
74	M84	Z	.517	.517	0	%100
75	M86	X	-3.926	-3.926	0	%100
76	M86	Z	2.266	2.266	0	%100
77	M88	X	-.852	-.852	0	%100
78	M88	Z	.492	.492	0	%100
79	M90	X	-3.926	-3.926	0	%100
80	M90	Z	2.266	2.266	0	%100
81	MP4C	X	-3.329	-3.329	0	%100
82	MP4C	Z	1.922	1.922	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,%]

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,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-1.188	-1.188	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-1.188	-1.188	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-3.397	-3.397	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	-4.139	-4.139	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-4.373	-4.373	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-4.78	-4.78	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-4.373	-4.373	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-1.202	-1.202	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-.849	-.849	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	-1.035	-1.035	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	-4.373	-4.373	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	-1.202	-1.202	0	%100
28	M18	Z	0	0	0	%100
29	M19	X	-4.373	-4.373	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	-4.78	-4.78	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	-.849	-.849	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	-1.035	-1.035	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	-3.844	-3.844	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	-3.844	-3.844	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	-3.844	-3.844	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	-3.844	-3.844	0	%100
44	MP4A	Z	0	0	0	%100
45	MP1C	X	-3.844	-3.844	0	%100
46	MP1C	Z	0	0	0	%100
47	MP2C	X	-3.844	-3.844	0	%100
48	MP2C	Z	0	0	0	%100
49	MP3CA	X	-3.844	-3.844	0	%100
50	MP3CA	Z	0	0	0	%100
51	MP4CA	X	-3.844	-3.844	0	%100
52	MP4CA	Z	0	0	0	%100
53	MP1B	X	-3.844	-3.844	0	%100
54	MP1B	Z	0	0	0	%100
55	MP2B	X	-3.844	-3.844	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	-3.844	-3.844	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	0	0	0	%100
59	MP4B	X	-3.844	-3.844	0	%100
60	MP4B	Z	0	0	0	%100
61	MP3C	X	-3.844	-3.844	0	%100
62	MP3C	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M66	X	-3.262	-3.262	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	-3.262	-3.262	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	-3.101	-3.101	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	-3.101	-3.101	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	0	0	0	%100
75	M86	X	-5.716	-5.716	0	%100
76	M86	Z	0	0	0	%100
77	M88	X	-2.166	-2.166	0	%100
78	M88	Z	0	0	0	%100
79	M90	X	-2.166	-2.166	0	%100
80	M90	Z	0	0	0	%100
81	MP4C	X	-3.844	-3.844	0	%100
82	MP4C	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	-1.262	-1.262	0	%100
2	M1	Z	-.729	-.729	0	%100
3	M2	X	-1.3e-5	-1.3e-5	0	%100
4	M2	Z	-7e-6	-7e-6	0	%100
5	M3	X	-1.262	-1.262	0	%100
6	M3	Z	-.729	-.729	0	%100
7	M4	X	-3.099	-3.099	0	%100
8	M4	Z	-1.789	-1.789	0	%100
9	M5	X	-2.206	-2.206	0	%100
10	M5	Z	-1.274	-1.274	0	%100
11	M8	X	-2.688	-2.688	0	%100
12	M8	Z	-1.552	-1.552	0	%100
13	M9	X	-1.262	-1.262	0	%100
14	M9	Z	-.729	-.729	0	%100
15	M10	X	-3.099	-3.099	0	%100
16	M10	Z	-1.789	-1.789	0	%100
17	M11	X	-1.262	-1.262	0	%100
18	M11	Z	-.729	-.729	0	%100
19	M12	X	-1.3e-5	-1.3e-5	0	%100
20	M12	Z	-7e-6	-7e-6	0	%100
21	M13	X	-2.206	-2.206	0	%100
22	M13	Z	-1.274	-1.274	0	%100
23	M16	X	-2.688	-2.688	0	%100
24	M16	Z	-1.552	-1.552	0	%100
25	M17	X	-5.049	-5.049	0	%100
26	M17	Z	-2.915	-2.915	0	%100
27	M18	X	-3.111	-3.111	0	%100
28	M18	Z	-1.796	-1.796	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,%]
29	M19	X	-5.049	-5.049	0	%100
30	M19	Z	-2.915	-2.915	0	%100
31	M20	X	-3.111	-3.111	0	%100
32	M20	Z	-1.796	-1.796	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	-3.329	-3.329	0	%100
38	MP1A	Z	-1.922	-1.922	0	%100
39	MP2A	X	-3.329	-3.329	0	%100
40	MP2A	Z	-1.922	-1.922	0	%100
41	MP3A	X	-3.329	-3.329	0	%100
42	MP3A	Z	-1.922	-1.922	0	%100
43	MP4A	X	-3.329	-3.329	0	%100
44	MP4A	Z	-1.922	-1.922	0	%100
45	MP1C	X	-3.329	-3.329	0	%100
46	MP1C	Z	-1.922	-1.922	0	%100
47	MP2C	X	-3.329	-3.329	0	%100
48	MP2C	Z	-1.922	-1.922	0	%100
49	MP3CA	X	-3.329	-3.329	0	%100
50	MP3CA	Z	-1.922	-1.922	0	%100
51	MP4CA	X	-3.329	-3.329	0	%100
52	MP4CA	Z	-1.922	-1.922	0	%100
53	MP1B	X	-3.329	-3.329	0	%100
54	MP1B	Z	-1.922	-1.922	0	%100
55	MP2B	X	-3.329	-3.329	0	%100
56	MP2B	Z	-1.922	-1.922	0	%100
57	MP3B	X	-3.329	-3.329	0	%100
58	MP3B	Z	-1.922	-1.922	0	%100
59	MP4B	X	-3.329	-3.329	0	%100
60	MP4B	Z	-1.922	-1.922	0	%100
61	MP3C	X	-3.329	-3.329	0	%100
62	MP3C	Z	-1.922	-1.922	0	%100
63	M61	X	-.942	-.942	0	%100
64	M61	Z	-.544	-.544	0	%100
65	M66	X	-.942	-.942	0	%100
66	M66	Z	-.544	-.544	0	%100
67	M71	X	-3.767	-3.767	0	%100
68	M71	Z	-2.175	-2.175	0	%100
69	M82	X	-.895	-.895	0	%100
70	M82	Z	-.517	-.517	0	%100
71	M83	X	-3.581	-3.581	0	%100
72	M83	Z	-2.068	-2.068	0	%100
73	M84	X	-.895	-.895	0	%100
74	M84	Z	-.517	-.517	0	%100
75	M86	X	-3.926	-3.926	0	%100
76	M86	Z	-2.266	-2.266	0	%100
77	M88	X	-3.926	-3.926	0	%100
78	M88	Z	-2.266	-2.266	0	%100
79	M90	X	-.852	-.852	0	%100
80	M90	Z	-.492	-.492	0	%100
81	MP4C	X	-3.329	-3.329	0	%100
82	MP4C	Z	-1.922	-1.922	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,%]

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,%]
1	M1	X	-2.186	-2.186	0	%100
2	M1	Z	-3.787	-3.787	0	%100
3	M2	X	-.601	-.601	0	%100
4	M2	Z	-1.041	-1.041	0	%100
5	M3	X	-2.186	-2.186	0	%100
6	M3	Z	-3.787	-3.787	0	%100
7	M4	X	-2.39	-2.39	0	%100
8	M4	Z	-4.14	-4.14	0	%100
9	M5	X	-.425	-.425	0	%100
10	M5	Z	-.735	-.735	0	%100
11	M8	X	-.517	-.517	0	%100
12	M8	Z	-.896	-.896	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-.594	-.594	0	%100
16	M10	Z	-1.029	-1.029	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-.594	-.594	0	%100
20	M12	Z	-1.029	-1.029	0	%100
21	M13	X	-1.699	-1.699	0	%100
22	M13	Z	-2.942	-2.942	0	%100
23	M16	X	-2.069	-2.069	0	%100
24	M16	Z	-3.584	-3.584	0	%100
25	M17	X	-2.186	-2.186	0	%100
26	M17	Z	-3.787	-3.787	0	%100
27	M18	X	-2.39	-2.39	0	%100
28	M18	Z	-4.14	-4.14	0	%100
29	M19	X	-2.186	-2.186	0	%100
30	M19	Z	-3.787	-3.787	0	%100
31	M20	X	-.601	-.601	0	%100
32	M20	Z	-1.041	-1.041	0	%100
33	M21	X	-.425	-.425	0	%100
34	M21	Z	-.735	-.735	0	%100
35	M24	X	-.517	-.517	0	%100
36	M24	Z	-.896	-.896	0	%100
37	MP1A	X	-1.922	-1.922	0	%100
38	MP1A	Z	-3.329	-3.329	0	%100
39	MP2A	X	-1.922	-1.922	0	%100
40	MP2A	Z	-3.329	-3.329	0	%100
41	MP3A	X	-1.922	-1.922	0	%100
42	MP3A	Z	-3.329	-3.329	0	%100
43	MP4A	X	-1.922	-1.922	0	%100
44	MP4A	Z	-3.329	-3.329	0	%100
45	MP1C	X	-1.922	-1.922	0	%100
46	MP1C	Z	-3.329	-3.329	0	%100
47	MP2C	X	-1.922	-1.922	0	%100
48	MP2C	Z	-3.329	-3.329	0	%100
49	MP3CA	X	-1.922	-1.922	0	%100
50	MP3CA	Z	-3.329	-3.329	0	%100
51	MP4CA	X	-1.922	-1.922	0	%100
52	MP4CA	Z	-3.329	-3.329	0	%100
53	MP1B	X	-1.922	-1.922	0	%100
54	MP1B	Z	-3.329	-3.329	0	%100
55	MP2B	X	-1.922	-1.922	0	%100
56	MP2B	Z	-3.329	-3.329	0	%100
57	MP3B	X	-1.922	-1.922	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-3.329	-3.329	0	%100
59	MP4B	X	-1.922	-1.922	0	%100
60	MP4B	Z	-3.329	-3.329	0	%100
61	MP3C	X	-1.922	-1.922	0	%100
62	MP3C	Z	-3.329	-3.329	0	%100
63	M61	X	-1.631	-1.631	0	%100
64	M61	Z	-2.825	-2.825	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	-1.631	-1.631	0	%100
68	M71	Z	-2.825	-2.825	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	-1.551	-1.551	0	%100
72	M83	Z	-2.686	-2.686	0	%100
73	M84	X	-1.551	-1.551	0	%100
74	M84	Z	-2.686	-2.686	0	%100
75	M86	X	-1.083	-1.083	0	%100
76	M86	Z	-1.876	-1.876	0	%100
77	M88	X	-2.858	-2.858	0	%100
78	M88	Z	-4.95	-4.95	0	%100
79	M90	X	-1.083	-1.083	0	%100
80	M90	Z	-1.876	-1.876	0	%100
81	MP4C	X	-1.922	-1.922	0	%100
82	MP4C	Z	-3.329	-3.329	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	-1.254	-1.254	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.791	-.791	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-1.254	-1.254	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-.791	-.791	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-.314	-.314	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-3e-6	-3e-6	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-.314	-.314	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-.788	-.788	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-.536	-.536	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	-.697	-.697	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-.314	-.314	0	%100
27	M18	X	0	0	0	%100
28	M18	Z	-.788	-.788	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,%]
29	M19	X	0	0	0	%100
30	M19	Z	-.314	-.314	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	-3e-6	-3e-6	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	-.536	-.536	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	-.697	-.697	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-.596	-.596	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	-.596	-.596	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	-.596	-.596	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	-.596	-.596	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	-.596	-.596	0	%100
47	MP2C	X	0	0	0	%100
48	MP2C	Z	-.596	-.596	0	%100
49	MP3CA	X	0	0	0	%100
50	MP3CA	Z	-.596	-.596	0	%100
51	MP4CA	X	0	0	0	%100
52	MP4CA	Z	-.596	-.596	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-.596	-.596	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	-.596	-.596	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	-.596	-.596	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	-.596	-.596	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	-.596	-.596	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	-.721	-.721	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	-.18	-.18	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	-.18	-.18	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	-.228	-.228	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	-.228	-.228	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	-.914	-.914	0	%100
75	M86	X	0	0	0	%100
76	M86	Z	-.258	-.258	0	%100
77	M88	X	0	0	0	%100
78	M88	Z	-1.005	-1.005	0	%100
79	M90	X	0	0	0	%100
80	M90	Z	-1.005	-1.005	0	%100
81	MP4C	X	0	0	0	%100
82	MP4C	Z	-.596	-.596	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,%]

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,%]
1	M1	X	.47	.47	0	%100
2	M1	Z	-.815	-.815	0	%100
3	M2	X	.526	.526	0	%100
4	M2	Z	-.912	-.912	0	%100
5	M3	X	.47	.47	0	%100
6	M3	Z	-.815	-.815	0	%100
7	M4	X	.132	.132	0	%100
8	M4	Z	-.229	-.229	0	%100
9	M5	X	.089	.089	0	%100
10	M5	Z	-.155	-.155	0	%100
11	M8	X	.116	.116	0	%100
12	M8	Z	-.201	-.201	0	%100
13	M9	X	.47	.47	0	%100
14	M9	Z	-.815	-.815	0	%100
15	M10	X	.132	.132	0	%100
16	M10	Z	-.229	-.229	0	%100
17	M11	X	.47	.47	0	%100
18	M11	Z	-.815	-.815	0	%100
19	M12	X	.526	.526	0	%100
20	M12	Z	-.912	-.912	0	%100
21	M13	X	.089	.089	0	%100
22	M13	Z	-.155	-.155	0	%100
23	M16	X	.116	.116	0	%100
24	M16	Z	-.201	-.201	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	.131	.131	0	%100
28	M18	Z	-.227	-.227	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	.131	.131	0	%100
32	M20	Z	-.227	-.227	0	%100
33	M21	X	.357	.357	0	%100
34	M21	Z	-.619	-.619	0	%100
35	M24	X	.465	.465	0	%100
36	M24	Z	-.805	-.805	0	%100
37	MP1A	X	.298	.298	0	%100
38	MP1A	Z	-.516	-.516	0	%100
39	MP2A	X	.298	.298	0	%100
40	MP2A	Z	-.516	-.516	0	%100
41	MP3A	X	.298	.298	0	%100
42	MP3A	Z	-.516	-.516	0	%100
43	MP4A	X	.298	.298	0	%100
44	MP4A	Z	-.516	-.516	0	%100
45	MP1C	X	.298	.298	0	%100
46	MP1C	Z	-.516	-.516	0	%100
47	MP2C	X	.298	.298	0	%100
48	MP2C	Z	-.516	-.516	0	%100
49	MP3CA	X	.298	.298	0	%100
50	MP3CA	Z	-.516	-.516	0	%100
51	MP4CA	X	.298	.298	0	%100
52	MP4CA	Z	-.516	-.516	0	%100
53	MP1B	X	.298	.298	0	%100
54	MP1B	Z	-.516	-.516	0	%100
55	MP2B	X	.298	.298	0	%100
56	MP2B	Z	-.516	-.516	0	%100
57	MP3B	X	.298	.298	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-.516	-.516	0	%100
59	MP4B	X	.298	.298	0	%100
60	MP4B	Z	-.516	-.516	0	%100
61	MP3C	X	.298	.298	0	%100
62	MP3C	Z	-.516	-.516	0	%100
63	M61	X	.27	.27	0	%100
64	M61	Z	-.468	-.468	0	%100
65	M66	X	.27	.27	0	%100
66	M66	Z	-.468	-.468	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	.343	.343	0	%100
70	M82	Z	-.593	-.593	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	.343	.343	0	%100
74	M84	Z	-.593	-.593	0	%100
75	M86	X	.254	.254	0	%100
76	M86	Z	-.439	-.439	0	%100
77	M88	X	.254	.254	0	%100
78	M88	Z	-.439	-.439	0	%100
79	M90	X	.627	.627	0	%100
80	M90	Z	-1.086	-1.086	0	%100
81	MP4C	X	.298	.298	0	%100
82	MP4C	Z	-.516	-.516	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	.272	.272	0	%100
2	M1	Z	-.157	-.157	0	%100
3	M2	X	.683	.683	0	%100
4	M2	Z	-.394	-.394	0	%100
5	M3	X	.272	.272	0	%100
6	M3	Z	-.157	-.157	0	%100
7	M4	X	3e-6	3e-6	0	%100
8	M4	Z	-2e-6	-2e-6	0	%100
9	M5	X	.464	.464	0	%100
10	M5	Z	-.268	-.268	0	%100
11	M8	X	.604	.604	0	%100
12	M8	Z	-.349	-.349	0	%100
13	M9	X	1.086	1.086	0	%100
14	M9	Z	-.627	-.627	0	%100
15	M10	X	.685	.685	0	%100
16	M10	Z	-.396	-.396	0	%100
17	M11	X	1.086	1.086	0	%100
18	M11	Z	-.627	-.627	0	%100
19	M12	X	.685	.685	0	%100
20	M12	Z	-.396	-.396	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	.272	.272	0	%100
26	M17	Z	-.157	-.157	0	%100
27	M18	X	3e-6	3e-6	0	%100
28	M18	Z	-2e-6	-2e-6	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,%]
29	M19	X	.272	.272	0	%100
30	M19	Z	-.157	-.157	0	%100
31	M20	X	.683	.683	0	%100
32	M20	Z	-.394	-.394	0	%100
33	M21	X	.464	.464	0	%100
34	M21	Z	-.268	-.268	0	%100
35	M24	X	.604	.604	0	%100
36	M24	Z	-.349	-.349	0	%100
37	MP1A	X	.516	.516	0	%100
38	MP1A	Z	-.298	-.298	0	%100
39	MP2A	X	.516	.516	0	%100
40	MP2A	Z	-.298	-.298	0	%100
41	MP3A	X	.516	.516	0	%100
42	MP3A	Z	-.298	-.298	0	%100
43	MP4A	X	.516	.516	0	%100
44	MP4A	Z	-.298	-.298	0	%100
45	MP1C	X	.516	.516	0	%100
46	MP1C	Z	-.298	-.298	0	%100
47	MP2C	X	.516	.516	0	%100
48	MP2C	Z	-.298	-.298	0	%100
49	MP3CA	X	.516	.516	0	%100
50	MP3CA	Z	-.298	-.298	0	%100
51	MP4CA	X	.516	.516	0	%100
52	MP4CA	Z	-.298	-.298	0	%100
53	MP1B	X	.516	.516	0	%100
54	MP1B	Z	-.298	-.298	0	%100
55	MP2B	X	.516	.516	0	%100
56	MP2B	Z	-.298	-.298	0	%100
57	MP3B	X	.516	.516	0	%100
58	MP3B	Z	-.298	-.298	0	%100
59	MP4B	X	.516	.516	0	%100
60	MP4B	Z	-.298	-.298	0	%100
61	MP3C	X	.516	.516	0	%100
62	MP3C	Z	-.298	-.298	0	%100
63	M61	X	.156	.156	0	%100
64	M61	Z	-.09	-.09	0	%100
65	M66	X	.624	.624	0	%100
66	M66	Z	-.361	-.361	0	%100
67	M71	X	.156	.156	0	%100
68	M71	Z	-.09	-.09	0	%100
69	M82	X	.791	.791	0	%100
70	M82	Z	-.457	-.457	0	%100
71	M83	X	.198	.198	0	%100
72	M83	Z	-.114	-.114	0	%100
73	M84	X	.198	.198	0	%100
74	M84	Z	-.114	-.114	0	%100
75	M86	X	.87	.87	0	%100
76	M86	Z	-.503	-.503	0	%100
77	M88	X	.224	.224	0	%100
78	M88	Z	-.129	-.129	0	%100
79	M90	X	.87	.87	0	%100
80	M90	Z	-.503	-.503	0	%100
81	MP4C	X	.516	.516	0	%100
82	MP4C	Z	-.298	-.298	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,%]

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,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.262	.262	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.262	.262	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	.715	.715	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	.93	.93	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	.941	.941	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	1.053	1.053	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	.941	.941	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	.265	.265	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	.179	.179	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	.232	.232	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	.941	.941	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	.265	.265	0	%100
28	M18	Z	0	0	0	%100
29	M19	X	.941	.941	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	1.053	1.053	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	.179	.179	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	.232	.232	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	.596	.596	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	.596	.596	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	.596	.596	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	.596	.596	0	%100
44	MP4A	Z	0	0	0	%100
45	MP1C	X	.596	.596	0	%100
46	MP1C	Z	0	0	0	%100
47	MP2C	X	.596	.596	0	%100
48	MP2C	Z	0	0	0	%100
49	MP3CA	X	.596	.596	0	%100
50	MP3CA	Z	0	0	0	%100
51	MP4CA	X	.596	.596	0	%100
52	MP4CA	Z	0	0	0	%100
53	MP1B	X	.596	.596	0	%100
54	MP1B	Z	0	0	0	%100
55	MP2B	X	.596	.596	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	.596	.596	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	0	0	0	%100
59	MP4B	X	.596	.596	0	%100
60	MP4B	Z	0	0	0	%100
61	MP3C	X	.596	.596	0	%100
62	MP3C	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M66	X	.541	.541	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	.541	.541	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	.685	.685	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	.685	.685	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	0	0	0	%100
75	M86	X	1.254	1.254	0	%100
76	M86	Z	0	0	0	%100
77	M88	X	.507	.507	0	%100
78	M88	Z	0	0	0	%100
79	M90	X	.507	.507	0	%100
80	M90	Z	0	0	0	%100
81	MP4C	X	.596	.596	0	%100
82	MP4C	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	.272	.272	0	%100
2	M1	Z	.157	.157	0	%100
3	M2	X	3e-6	3e-6	0	%100
4	M2	Z	2e-6	2e-6	0	%100
5	M3	X	.272	.272	0	%100
6	M3	Z	.157	.157	0	%100
7	M4	X	.683	.683	0	%100
8	M4	Z	.394	.394	0	%100
9	M5	X	.464	.464	0	%100
10	M5	Z	.268	.268	0	%100
11	M8	X	.604	.604	0	%100
12	M8	Z	.349	.349	0	%100
13	M9	X	.272	.272	0	%100
14	M9	Z	.157	.157	0	%100
15	M10	X	.683	.683	0	%100
16	M10	Z	.394	.394	0	%100
17	M11	X	.272	.272	0	%100
18	M11	Z	.157	.157	0	%100
19	M12	X	3e-6	3e-6	0	%100
20	M12	Z	2e-6	2e-6	0	%100
21	M13	X	.464	.464	0	%100
22	M13	Z	.268	.268	0	%100
23	M16	X	.604	.604	0	%100
24	M16	Z	.349	.349	0	%100
25	M17	X	1.086	1.086	0	%100
26	M17	Z	.627	.627	0	%100
27	M18	X	.685	.685	0	%100
28	M18	Z	.396	.396	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,%]
29	M19	X	1.086	1.086	0	%100
30	M19	Z	.627	.627	0	%100
31	M20	X	.685	.685	0	%100
32	M20	Z	.396	.396	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	.516	.516	0	%100
38	MP1A	Z	.298	.298	0	%100
39	MP2A	X	.516	.516	0	%100
40	MP2A	Z	.298	.298	0	%100
41	MP3A	X	.516	.516	0	%100
42	MP3A	Z	.298	.298	0	%100
43	MP4A	X	.516	.516	0	%100
44	MP4A	Z	.298	.298	0	%100
45	MP1C	X	.516	.516	0	%100
46	MP1C	Z	.298	.298	0	%100
47	MP2C	X	.516	.516	0	%100
48	MP2C	Z	.298	.298	0	%100
49	MP3CA	X	.516	.516	0	%100
50	MP3CA	Z	.298	.298	0	%100
51	MP4CA	X	.516	.516	0	%100
52	MP4CA	Z	.298	.298	0	%100
53	MP1B	X	.516	.516	0	%100
54	MP1B	Z	.298	.298	0	%100
55	MP2B	X	.516	.516	0	%100
56	MP2B	Z	.298	.298	0	%100
57	MP3B	X	.516	.516	0	%100
58	MP3B	Z	.298	.298	0	%100
59	MP4B	X	.516	.516	0	%100
60	MP4B	Z	.298	.298	0	%100
61	MP3C	X	.516	.516	0	%100
62	MP3C	Z	.298	.298	0	%100
63	M61	X	.156	.156	0	%100
64	M61	Z	.09	.09	0	%100
65	M66	X	.156	.156	0	%100
66	M66	Z	.09	.09	0	%100
67	M71	X	.624	.624	0	%100
68	M71	Z	.361	.361	0	%100
69	M82	X	.198	.198	0	%100
70	M82	Z	.114	.114	0	%100
71	M83	X	.791	.791	0	%100
72	M83	Z	.457	.457	0	%100
73	M84	X	.198	.198	0	%100
74	M84	Z	.114	.114	0	%100
75	M86	X	.87	.87	0	%100
76	M86	Z	.503	.503	0	%100
77	M88	X	.87	.87	0	%100
78	M88	Z	.503	.503	0	%100
79	M90	X	.224	.224	0	%100
80	M90	Z	.129	.129	0	%100
81	MP4C	X	.516	.516	0	%100
82	MP4C	Z	.298	.298	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,%]

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,%]
1	M1	X	.47	.47	0	%100
2	M1	Z	.815	.815	0	%100
3	M2	X	.132	.132	0	%100
4	M2	Z	.229	.229	0	%100
5	M3	X	.47	.47	0	%100
6	M3	Z	.815	.815	0	%100
7	M4	X	.526	.526	0	%100
8	M4	Z	.912	.912	0	%100
9	M5	X	.089	.089	0	%100
10	M5	Z	.155	.155	0	%100
11	M8	X	.116	.116	0	%100
12	M8	Z	.201	.201	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	.131	.131	0	%100
16	M10	Z	.227	.227	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	.131	.131	0	%100
20	M12	Z	.227	.227	0	%100
21	M13	X	.357	.357	0	%100
22	M13	Z	.619	.619	0	%100
23	M16	X	.465	.465	0	%100
24	M16	Z	.805	.805	0	%100
25	M17	X	.47	.47	0	%100
26	M17	Z	.815	.815	0	%100
27	M18	X	.526	.526	0	%100
28	M18	Z	.912	.912	0	%100
29	M19	X	.47	.47	0	%100
30	M19	Z	.815	.815	0	%100
31	M20	X	.132	.132	0	%100
32	M20	Z	.229	.229	0	%100
33	M21	X	.089	.089	0	%100
34	M21	Z	.155	.155	0	%100
35	M24	X	.116	.116	0	%100
36	M24	Z	.201	.201	0	%100
37	MP1A	X	.298	.298	0	%100
38	MP1A	Z	.516	.516	0	%100
39	MP2A	X	.298	.298	0	%100
40	MP2A	Z	.516	.516	0	%100
41	MP3A	X	.298	.298	0	%100
42	MP3A	Z	.516	.516	0	%100
43	MP4A	X	.298	.298	0	%100
44	MP4A	Z	.516	.516	0	%100
45	MP1C	X	.298	.298	0	%100
46	MP1C	Z	.516	.516	0	%100
47	MP2C	X	.298	.298	0	%100
48	MP2C	Z	.516	.516	0	%100
49	MP3CA	X	.298	.298	0	%100
50	MP3CA	Z	.516	.516	0	%100
51	MP4CA	X	.298	.298	0	%100
52	MP4CA	Z	.516	.516	0	%100
53	MP1B	X	.298	.298	0	%100
54	MP1B	Z	.516	.516	0	%100
55	MP2B	X	.298	.298	0	%100
56	MP2B	Z	.516	.516	0	%100
57	MP3B	X	.298	.298	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	MP3B	Z	.516	.516	0	%100
59	MP4B	X	.298	.298	0	%100
60	MP4B	Z	.516	.516	0	%100
61	MP3C	X	.298	.298	0	%100
62	MP3C	Z	.516	.516	0	%100
63	M61	X	.27	.27	0	%100
64	M61	Z	.468	.468	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	.27	.27	0	%100
68	M71	Z	.468	.468	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	.343	.343	0	%100
72	M83	Z	.593	.593	0	%100
73	M84	X	.343	.343	0	%100
74	M84	Z	.593	.593	0	%100
75	M86	X	.254	.254	0	%100
76	M86	Z	.439	.439	0	%100
77	M88	X	.627	.627	0	%100
78	M88	Z	1.086	1.086	0	%100
79	M90	X	.254	.254	0	%100
80	M90	Z	.439	.439	0	%100
81	MP4C	X	.298	.298	0	%100
82	MP4C	Z	.516	.516	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	1.254	1.254	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.791	.791	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	1.254	1.254	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	.791	.791	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	.314	.314	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	3e-6	3e-6	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	.314	.314	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	.788	.788	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	.536	.536	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	.697	.697	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	.314	.314	0	%100
27	M18	X	0	0	0	%100
28	M18	Z	.788	.788	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,%]
29	M19	X	0	0	0	%100
30	M19	Z	.314	.314	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	3e-6	3e-6	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	.536	.536	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	.697	.697	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	.596	.596	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	.596	.596	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	.596	.596	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	.596	.596	0	%100
45	MP1C	X	0	0	0	%100
46	MP1C	Z	.596	.596	0	%100
47	MP2C	X	0	0	0	%100
48	MP2C	Z	.596	.596	0	%100
49	MP3CA	X	0	0	0	%100
50	MP3CA	Z	.596	.596	0	%100
51	MP4CA	X	0	0	0	%100
52	MP4CA	Z	.596	.596	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	.596	.596	0	%100
55	MP2B	X	0	0	0	%100
56	MP2B	Z	.596	.596	0	%100
57	MP3B	X	0	0	0	%100
58	MP3B	Z	.596	.596	0	%100
59	MP4B	X	0	0	0	%100
60	MP4B	Z	.596	.596	0	%100
61	MP3C	X	0	0	0	%100
62	MP3C	Z	.596	.596	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	.721	.721	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	.18	.18	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	.18	.18	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	.228	.228	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	.228	.228	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	.914	.914	0	%100
75	M86	X	0	0	0	%100
76	M86	Z	.258	.258	0	%100
77	M88	X	0	0	0	%100
78	M88	Z	1.005	1.005	0	%100
79	M90	X	0	0	0	%100
80	M90	Z	1.005	1.005	0	%100
81	MP4C	X	0	0	0	%100
82	MP4C	Z	.596	.596	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,%]

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,%]
1	M1	X	-.47	-.47	0	%100
2	M1	Z	.815	.815	0	%100
3	M2	X	-.526	-.526	0	%100
4	M2	Z	.912	.912	0	%100
5	M3	X	-.47	-.47	0	%100
6	M3	Z	.815	.815	0	%100
7	M4	X	-.132	-.132	0	%100
8	M4	Z	.229	.229	0	%100
9	M5	X	-.089	-.089	0	%100
10	M5	Z	.155	.155	0	%100
11	M8	X	-.116	-.116	0	%100
12	M8	Z	.201	.201	0	%100
13	M9	X	-.47	-.47	0	%100
14	M9	Z	.815	.815	0	%100
15	M10	X	-.132	-.132	0	%100
16	M10	Z	.229	.229	0	%100
17	M11	X	-.47	-.47	0	%100
18	M11	Z	.815	.815	0	%100
19	M12	X	-.526	-.526	0	%100
20	M12	Z	.912	.912	0	%100
21	M13	X	-.089	-.089	0	%100
22	M13	Z	.155	.155	0	%100
23	M16	X	-.116	-.116	0	%100
24	M16	Z	.201	.201	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	-.131	-.131	0	%100
28	M18	Z	.227	.227	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	-.131	-.131	0	%100
32	M20	Z	.227	.227	0	%100
33	M21	X	-.357	-.357	0	%100
34	M21	Z	.619	.619	0	%100
35	M24	X	-.465	-.465	0	%100
36	M24	Z	.805	.805	0	%100
37	MP1A	X	-.298	-.298	0	%100
38	MP1A	Z	.516	.516	0	%100
39	MP2A	X	-.298	-.298	0	%100
40	MP2A	Z	.516	.516	0	%100
41	MP3A	X	-.298	-.298	0	%100
42	MP3A	Z	.516	.516	0	%100
43	MP4A	X	-.298	-.298	0	%100
44	MP4A	Z	.516	.516	0	%100
45	MP1C	X	-.298	-.298	0	%100
46	MP1C	Z	.516	.516	0	%100
47	MP2C	X	-.298	-.298	0	%100
48	MP2C	Z	.516	.516	0	%100
49	MP3CA	X	-.298	-.298	0	%100
50	MP3CA	Z	.516	.516	0	%100
51	MP4CA	X	-.298	-.298	0	%100
52	MP4CA	Z	.516	.516	0	%100
53	MP1B	X	-.298	-.298	0	%100
54	MP1B	Z	.516	.516	0	%100
55	MP2B	X	-.298	-.298	0	%100
56	MP2B	Z	.516	.516	0	%100
57	MP3B	X	-.298	-.298	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	.516	.516	0	%100
59	MP4B	X	-.298	-.298	0	%100
60	MP4B	Z	.516	.516	0	%100
61	MP3C	X	-.298	-.298	0	%100
62	MP3C	Z	.516	.516	0	%100
63	M61	X	-.27	-.27	0	%100
64	M61	Z	.468	.468	0	%100
65	M66	X	-.27	-.27	0	%100
66	M66	Z	.468	.468	0	%100
67	M71	X	0	0	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	-.343	-.343	0	%100
70	M82	Z	.593	.593	0	%100
71	M83	X	0	0	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	-.343	-.343	0	%100
74	M84	Z	.593	.593	0	%100
75	M86	X	-.254	-.254	0	%100
76	M86	Z	.439	.439	0	%100
77	M88	X	-.254	-.254	0	%100
78	M88	Z	.439	.439	0	%100
79	M90	X	-.627	-.627	0	%100
80	M90	Z	1.086	1.086	0	%100
81	MP4C	X	-.298	-.298	0	%100
82	MP4C	Z	.516	.516	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	-.272	-.272	0	%100
2	M1	Z	.157	.157	0	%100
3	M2	X	-.683	-.683	0	%100
4	M2	Z	.394	.394	0	%100
5	M3	X	-.272	-.272	0	%100
6	M3	Z	.157	.157	0	%100
7	M4	X	-3e-6	-3e-6	0	%100
8	M4	Z	2e-6	2e-6	0	%100
9	M5	X	-.464	-.464	0	%100
10	M5	Z	.268	.268	0	%100
11	M8	X	-.604	-.604	0	%100
12	M8	Z	.349	.349	0	%100
13	M9	X	-1.086	-1.086	0	%100
14	M9	Z	.627	.627	0	%100
15	M10	X	-.685	-.685	0	%100
16	M10	Z	.396	.396	0	%100
17	M11	X	-1.086	-1.086	0	%100
18	M11	Z	.627	.627	0	%100
19	M12	X	-.685	-.685	0	%100
20	M12	Z	.396	.396	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	-.272	-.272	0	%100
26	M17	Z	.157	.157	0	%100
27	M18	X	-3e-6	-3e-6	0	%100
28	M18	Z	2e-6	2e-6	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,%]
29	M19	X	-.272	-.272	0	%100
30	M19	Z	.157	.157	0	%100
31	M20	X	-.683	-.683	0	%100
32	M20	Z	.394	.394	0	%100
33	M21	X	-.464	-.464	0	%100
34	M21	Z	.268	.268	0	%100
35	M24	X	-.604	-.604	0	%100
36	M24	Z	.349	.349	0	%100
37	MP1A	X	-.516	-.516	0	%100
38	MP1A	Z	.298	.298	0	%100
39	MP2A	X	-.516	-.516	0	%100
40	MP2A	Z	.298	.298	0	%100
41	MP3A	X	-.516	-.516	0	%100
42	MP3A	Z	.298	.298	0	%100
43	MP4A	X	-.516	-.516	0	%100
44	MP4A	Z	.298	.298	0	%100
45	MP1C	X	-.516	-.516	0	%100
46	MP1C	Z	.298	.298	0	%100
47	MP2C	X	-.516	-.516	0	%100
48	MP2C	Z	.298	.298	0	%100
49	MP3CA	X	-.516	-.516	0	%100
50	MP3CA	Z	.298	.298	0	%100
51	MP4CA	X	-.516	-.516	0	%100
52	MP4CA	Z	.298	.298	0	%100
53	MP1B	X	-.516	-.516	0	%100
54	MP1B	Z	.298	.298	0	%100
55	MP2B	X	-.516	-.516	0	%100
56	MP2B	Z	.298	.298	0	%100
57	MP3B	X	-.516	-.516	0	%100
58	MP3B	Z	.298	.298	0	%100
59	MP4B	X	-.516	-.516	0	%100
60	MP4B	Z	.298	.298	0	%100
61	MP3C	X	-.516	-.516	0	%100
62	MP3C	Z	.298	.298	0	%100
63	M61	X	-.156	-.156	0	%100
64	M61	Z	.09	.09	0	%100
65	M66	X	-.624	-.624	0	%100
66	M66	Z	.361	.361	0	%100
67	M71	X	-.156	-.156	0	%100
68	M71	Z	.09	.09	0	%100
69	M82	X	-.791	-.791	0	%100
70	M82	Z	.457	.457	0	%100
71	M83	X	-.198	-.198	0	%100
72	M83	Z	.114	.114	0	%100
73	M84	X	-.198	-.198	0	%100
74	M84	Z	.114	.114	0	%100
75	M86	X	-.87	-.87	0	%100
76	M86	Z	.503	.503	0	%100
77	M88	X	-.224	-.224	0	%100
78	M88	Z	.129	.129	0	%100
79	M90	X	-.87	-.87	0	%100
80	M90	Z	.503	.503	0	%100
81	MP4C	X	-.516	-.516	0	%100
82	MP4C	Z	.298	.298	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,%]

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,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.262	-.262	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-.262	-.262	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-.715	-.715	0	%100
10	M5	Z	0	0	0	%100
11	M8	X	-.93	-.93	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	-.941	-.941	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-1.053	-1.053	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-.941	-.941	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-.265	-.265	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-.179	-.179	0	%100
22	M13	Z	0	0	0	%100
23	M16	X	-.232	-.232	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	-.941	-.941	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	-.265	-.265	0	%100
28	M18	Z	0	0	0	%100
29	M19	X	-.941	-.941	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	-1.053	-1.053	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	-.179	-.179	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	-.232	-.232	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	-.596	-.596	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	-.596	-.596	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	-.596	-.596	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	-.596	-.596	0	%100
44	MP4A	Z	0	0	0	%100
45	MP1C	X	-.596	-.596	0	%100
46	MP1C	Z	0	0	0	%100
47	MP2C	X	-.596	-.596	0	%100
48	MP2C	Z	0	0	0	%100
49	MP3CA	X	-.596	-.596	0	%100
50	MP3CA	Z	0	0	0	%100
51	MP4CA	X	-.596	-.596	0	%100
52	MP4CA	Z	0	0	0	%100
53	MP1B	X	-.596	-.596	0	%100
54	MP1B	Z	0	0	0	%100
55	MP2B	X	-.596	-.596	0	%100
56	MP2B	Z	0	0	0	%100
57	MP3B	X	-.596	-.596	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	0	0	0	%100
59	MP4B	X	-.596	-.596	0	%100
60	MP4B	Z	0	0	0	%100
61	MP3C	X	-.596	-.596	0	%100
62	MP3C	Z	0	0	0	%100
63	M61	X	0	0	0	%100
64	M61	Z	0	0	0	%100
65	M66	X	-.541	-.541	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	-.541	-.541	0	%100
68	M71	Z	0	0	0	%100
69	M82	X	-.685	-.685	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	-.685	-.685	0	%100
72	M83	Z	0	0	0	%100
73	M84	X	0	0	0	%100
74	M84	Z	0	0	0	%100
75	M86	X	-1.254	-1.254	0	%100
76	M86	Z	0	0	0	%100
77	M88	X	-.507	-.507	0	%100
78	M88	Z	0	0	0	%100
79	M90	X	-.507	-.507	0	%100
80	M90	Z	0	0	0	%100
81	MP4C	X	-.596	-.596	0	%100
82	MP4C	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	-.272	-.272	0	%100
2	M1	Z	-.157	-.157	0	%100
3	M2	X	-3e-6	-3e-6	0	%100
4	M2	Z	-2e-6	-2e-6	0	%100
5	M3	X	-.272	-.272	0	%100
6	M3	Z	-.157	-.157	0	%100
7	M4	X	-.683	-.683	0	%100
8	M4	Z	-.394	-.394	0	%100
9	M5	X	-.464	-.464	0	%100
10	M5	Z	-.268	-.268	0	%100
11	M8	X	-.604	-.604	0	%100
12	M8	Z	-.349	-.349	0	%100
13	M9	X	-.272	-.272	0	%100
14	M9	Z	-.157	-.157	0	%100
15	M10	X	-.683	-.683	0	%100
16	M10	Z	-.394	-.394	0	%100
17	M11	X	-.272	-.272	0	%100
18	M11	Z	-.157	-.157	0	%100
19	M12	X	-3e-6	-3e-6	0	%100
20	M12	Z	-2e-6	-2e-6	0	%100
21	M13	X	-.464	-.464	0	%100
22	M13	Z	-.268	-.268	0	%100
23	M16	X	-.604	-.604	0	%100
24	M16	Z	-.349	-.349	0	%100
25	M17	X	-1.086	-1.086	0	%100
26	M17	Z	-.627	-.627	0	%100
27	M18	X	-.685	-.685	0	%100
28	M18	Z	-.396	-.396	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,%]
29	M19	X	-1.086	-1.086	0	%100
30	M19	Z	-.627	-.627	0	%100
31	M20	X	-.685	-.685	0	%100
32	M20	Z	-.396	-.396	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	0	0	0	%100
35	M24	X	0	0	0	%100
36	M24	Z	0	0	0	%100
37	MP1A	X	-.516	-.516	0	%100
38	MP1A	Z	-.298	-.298	0	%100
39	MP2A	X	-.516	-.516	0	%100
40	MP2A	Z	-.298	-.298	0	%100
41	MP3A	X	-.516	-.516	0	%100
42	MP3A	Z	-.298	-.298	0	%100
43	MP4A	X	-.516	-.516	0	%100
44	MP4A	Z	-.298	-.298	0	%100
45	MP1C	X	-.516	-.516	0	%100
46	MP1C	Z	-.298	-.298	0	%100
47	MP2C	X	-.516	-.516	0	%100
48	MP2C	Z	-.298	-.298	0	%100
49	MP3CA	X	-.516	-.516	0	%100
50	MP3CA	Z	-.298	-.298	0	%100
51	MP4CA	X	-.516	-.516	0	%100
52	MP4CA	Z	-.298	-.298	0	%100
53	MP1B	X	-.516	-.516	0	%100
54	MP1B	Z	-.298	-.298	0	%100
55	MP2B	X	-.516	-.516	0	%100
56	MP2B	Z	-.298	-.298	0	%100
57	MP3B	X	-.516	-.516	0	%100
58	MP3B	Z	-.298	-.298	0	%100
59	MP4B	X	-.516	-.516	0	%100
60	MP4B	Z	-.298	-.298	0	%100
61	MP3C	X	-.516	-.516	0	%100
62	MP3C	Z	-.298	-.298	0	%100
63	M61	X	-.156	-.156	0	%100
64	M61	Z	-.09	-.09	0	%100
65	M66	X	-.156	-.156	0	%100
66	M66	Z	-.09	-.09	0	%100
67	M71	X	-.624	-.624	0	%100
68	M71	Z	-.361	-.361	0	%100
69	M82	X	-.198	-.198	0	%100
70	M82	Z	-.114	-.114	0	%100
71	M83	X	-.791	-.791	0	%100
72	M83	Z	-.457	-.457	0	%100
73	M84	X	-.198	-.198	0	%100
74	M84	Z	-.114	-.114	0	%100
75	M86	X	-.87	-.87	0	%100
76	M86	Z	-.503	-.503	0	%100
77	M88	X	-.87	-.87	0	%100
78	M88	Z	-.503	-.503	0	%100
79	M90	X	-.224	-.224	0	%100
80	M90	Z	-.129	-.129	0	%100
81	MP4C	X	-.516	-.516	0	%100
82	MP4C	Z	-.298	-.298	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,%]

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,%]
1	M1	X	-.47	-.47	0	%100
2	M1	Z	-.815	-.815	0	%100
3	M2	X	-.132	-.132	0	%100
4	M2	Z	-.229	-.229	0	%100
5	M3	X	-.47	-.47	0	%100
6	M3	Z	-.815	-.815	0	%100
7	M4	X	-.526	-.526	0	%100
8	M4	Z	-.912	-.912	0	%100
9	M5	X	-.089	-.089	0	%100
10	M5	Z	-.155	-.155	0	%100
11	M8	X	-.116	-.116	0	%100
12	M8	Z	-.201	-.201	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	-.131	-.131	0	%100
16	M10	Z	-.227	-.227	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-.131	-.131	0	%100
20	M12	Z	-.227	-.227	0	%100
21	M13	X	-.357	-.357	0	%100
22	M13	Z	-.619	-.619	0	%100
23	M16	X	-.465	-.465	0	%100
24	M16	Z	-.805	-.805	0	%100
25	M17	X	-.47	-.47	0	%100
26	M17	Z	-.815	-.815	0	%100
27	M18	X	-.526	-.526	0	%100
28	M18	Z	-.912	-.912	0	%100
29	M19	X	-.47	-.47	0	%100
30	M19	Z	-.815	-.815	0	%100
31	M20	X	-.132	-.132	0	%100
32	M20	Z	-.229	-.229	0	%100
33	M21	X	-.089	-.089	0	%100
34	M21	Z	-.155	-.155	0	%100
35	M24	X	-.116	-.116	0	%100
36	M24	Z	-.201	-.201	0	%100
37	MP1A	X	-.298	-.298	0	%100
38	MP1A	Z	-.516	-.516	0	%100
39	MP2A	X	-.298	-.298	0	%100
40	MP2A	Z	-.516	-.516	0	%100
41	MP3A	X	-.298	-.298	0	%100
42	MP3A	Z	-.516	-.516	0	%100
43	MP4A	X	-.298	-.298	0	%100
44	MP4A	Z	-.516	-.516	0	%100
45	MP1C	X	-.298	-.298	0	%100
46	MP1C	Z	-.516	-.516	0	%100
47	MP2C	X	-.298	-.298	0	%100
48	MP2C	Z	-.516	-.516	0	%100
49	MP3CA	X	-.298	-.298	0	%100
50	MP3CA	Z	-.516	-.516	0	%100
51	MP4CA	X	-.298	-.298	0	%100
52	MP4CA	Z	-.516	-.516	0	%100
53	MP1B	X	-.298	-.298	0	%100
54	MP1B	Z	-.516	-.516	0	%100
55	MP2B	X	-.298	-.298	0	%100
56	MP2B	Z	-.516	-.516	0	%100
57	MP3B	X	-.298	-.298	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	MP3B	Z	-.516	-.516	0	%100
59	MP4B	X	-.298	-.298	0	%100
60	MP4B	Z	-.516	-.516	0	%100
61	MP3C	X	-.298	-.298	0	%100
62	MP3C	Z	-.516	-.516	0	%100
63	M61	X	-.27	-.27	0	%100
64	M61	Z	-.468	-.468	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M71	X	-.27	-.27	0	%100
68	M71	Z	-.468	-.468	0	%100
69	M82	X	0	0	0	%100
70	M82	Z	0	0	0	%100
71	M83	X	-.343	-.343	0	%100
72	M83	Z	-.593	-.593	0	%100
73	M84	X	-.343	-.343	0	%100
74	M84	Z	-.593	-.593	0	%100
75	M86	X	-.254	-.254	0	%100
76	M86	Z	-.439	-.439	0	%100
77	M88	X	-.627	-.627	0	%100
78	M88	Z	-1.086	-1.086	0	%100
79	M90	X	-.254	-.254	0	%100
80	M90	Z	-.439	-.439	0	%100
81	MP4C	X	-.298	-.298	0	%100
82	MP4C	Z	-.516	-.516	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-.098	-2.901	0	2
2	M1	Y	-2.901	-4.745	2	4
3	M1	Y	-4.745	-4.48	4	6
4	M1	Y	-4.48	-4.48	6	8
5	M1	Y	-4.48	-4.745	8	10
6	M1	Y	-4.745	-2.901	10	12
7	M1	Y	-2.901	-.098	12	14
8	M2	Y	-.48	-2.341	0	1.923
9	M2	Y	-2.341	-4.202	1.923	3.845
10	M3	Y	-4.861	-4.861	.013	7.32
11	M4	Y	-4.202	-2.341	0	1.923
12	M4	Y	-2.341	-.48	1.923	3.845
13	M9	Y	-.989	-2.531	0	2.333
14	M9	Y	-2.531	-4.53	2.333	4.667
15	M9	Y	-4.53	-5.758	4.667	7
16	M9	Y	-5.758	-4.53	7	9.333
17	M9	Y	-4.53	-2.531	9.333	11.667
18	M9	Y	-2.531	-.989	11.667	14
19	M10	Y	-.48	-2.341	0	1.923
20	M10	Y	-2.341	-4.202	1.923	3.845
21	M11	Y	-4.861	-4.861	.013	7.32
22	M12	Y	-4.202	-2.341	0	1.923
23	M12	Y	-2.341	-.48	1.923	3.845
24	M17	Y	-.989	-2.531	0	2.333
25	M17	Y	-2.531	-4.53	2.333	4.667
26	M17	Y	-4.53	-5.758	4.667	7
27	M17	Y	-5.758	-4.53	7	9.333
28	M17	Y	-4.53	-2.531	9.333	11.667

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
29	M17	Y	-2.531	-.989	11.667	14
30	M18	Y	-.48	-2.341	0	1.923
31	M18	Y	-2.341	-4.202	1.923	3.845
32	M19	Y	-4.861	-4.861	.013	7.32
33	M20	Y	-4.202	-2.341	0	1.923
34	M20	Y	-2.341	-.48	1.923	3.845

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-.307	-9.109	0	2
2	M1	Y	-9.109	-14.899	2	4
3	M1	Y	-14.899	-14.066	4	6
4	M1	Y	-14.066	-14.066	6	8
5	M1	Y	-14.066	-14.899	8	10
6	M1	Y	-14.899	-9.109	10	12
7	M1	Y	-9.109	-.307	12	14
8	M2	Y	-1.508	-7.351	0	1.923
9	M2	Y	-7.351	-13.193	1.923	3.845
10	M3	Y	-15.265	-15.265	.013	7.32
11	M4	Y	-13.193	-7.351	0	1.923
12	M4	Y	-7.351	-1.508	1.923	3.845
13	M9	Y	-3.106	-7.949	0	2.333
14	M9	Y	-7.949	-14.225	2.333	4.667
15	M9	Y	-14.225	-18.08	4.667	7
16	M9	Y	-18.08	-14.225	7	9.333
17	M9	Y	-14.225	-7.949	9.333	11.667
18	M9	Y	-7.949	-3.106	11.667	14
19	M10	Y	-1.508	-7.351	0	1.923
20	M10	Y	-7.351	-13.193	1.923	3.845
21	M11	Y	-15.265	-15.265	.013	7.32
22	M12	Y	-13.193	-7.351	0	1.923
23	M12	Y	-7.351	-1.508	1.923	3.845
24	M17	Y	-3.106	-7.949	0	2.333
25	M17	Y	-7.949	-14.225	2.333	4.667
26	M17	Y	-14.225	-18.08	4.667	7
27	M17	Y	-18.08	-14.225	7	9.333
28	M17	Y	-14.225	-7.949	9.333	11.667
29	M17	Y	-7.949	-3.106	11.667	14
30	M18	Y	-1.508	-7.351	0	1.923
31	M18	Y	-7.351	-13.193	1.923	3.845
32	M19	Y	-15.265	-15.265	.013	7.32
33	M20	Y	-13.193	-7.351	0	1.923
34	M20	Y	-7.351	-1.508	1.923	3.845

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N3	N6	N5	N2	Y	Two Way	-.005
2	N13	N16	N15	N12	Y	Two Way	-.005
3	N23	N26A	N25	N22	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N3	N6	N5	N2	Y	Two Way	-.016
2	N13	N16	N15	N12	Y	Two Way	-.016

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
3	N23	N26A	N25	N22	Y	Two Way	-.016

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	N7	max	2215.923	9	1596.446	21	1231.657	1	-1.094	2	1.787	9	.298	3
2		min	-2393.448	3	516.709	3	-1228.814	7	-3.908	20	-1.919	3	-.451	45
3	N17	max	1709.026	10	1623.831	17	1938.716	1	1.827	13	1.763	5	3.645	17
4		min	-1760.594	4	530.822	12	-2132.1	7	.352	7	-1.634	11	.897	11
5	N27	max	1579.417	10	1635.474	24	2043.176	1	2.187	13	1.602	12	-.959	4
6		min	-1586.174	4	512.715	42	-2055.128	7	.376	6	-1.61	6	-3.427	22
7	N134	max	58.379	10	1418.214	13	-948.273	7	0	51	0	4	0	10
8		min	-58.364	4	372.263	7	-3635.545	13	0	1	0	10	0	4
9	N136	max	-899.341	3	1534.507	21	1976.309	21	0	18	0	48	0	48
10		min	-3423.439	21	405.452	3	519.387	3	-.001	48	0	18	0	18
11	N137	max	3756.784	17	1675.402	17	2169.237	17	0	8	0	8	0	8
12		min	977.931	11	438.801	11	564.61	11	0	2	0	2	0	2
13	Totals:	max	5155.076	10	9355.274	14	4949.882	1						
14		min	-5155.082	4	3235.407	8	-4949.872	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	L3X3X5	.454	2.771	47	.129	7	z	31	19170.188	57672	2.015	4.387	1....	H2-1
2	M2	L3X3X5	.256	0	14	.042	.961	z	18	41471.941	57672	2.015	4.572	4....	H2-1
3	M3	L3X3X5	.141	3.667	18	.016	3.667	z	24	17649.468	57672	2.015	4.303	1....	H2-1
4	M4	L3X3X5	.270	3.845	24	.043	2.884	z	23	41471.941	57672	2.015	4.572	3....	H2-1
5	M5	HSS4X4X5	.234	0	15	.071	0	z	3	169034.3...	169740	19.285	19.285	1....	H1-1b
6	M8	HSS4.5X4.5...	.154	0	16	.053	0	y	42	119907.9...	121302	16.25	16.25	1....	H1-1b
7	M9	L3X3X5	.418	0	15	.130	7	y	3	19170.188	57672	2.015	2.99	1	H2-1
8	M10	L3X3X5	.218	0	22	.032	.961	z	14	41471.941	57672	2.015	4.572	3....	H2-1
9	M11	L3X3X5	.142	3.667	17	.017	3.667	z	18	17649.468	57672	2.015	4.327	1....	H2-1
10	M12	L3X3X5	.296	3.845	20	.045	2.884	z	19	41471.941	57672	2.015	4.572	3....	H2-1
11	M13	HSS4X4X5	.247	0	17	.078	0	z	5	169034.3...	169740	19.285	19.285	1....	H1-1b
12	M16	HSS4.5X4.5...	.168	0	18	.056	0	y	24	119907.9...	121302	16.25	16.25	1....	H1-1b
13	M17	L3X3X5	.384	14	22	.101	7	y	11	19170.188	57672	2.015	2.99	1	H2-1
14	M18	L3X3X5	.230	0	18	.040	.961	z	22	41471.941	57672	2.015	4.572	3....	H2-1
15	M19	L3X3X5	.131	3.667	22	.016	3.667	z	14	17649.468	57672	2.015	4.296	1....	H2-1
16	M20	L3X3X5	.239	3.845	16	.035	2.884	z	15	41471.941	57672	2.015	4.572	3....	H2-1
17	M21	HSS4X4X5	.233	0	22	.068	0	z	1	169034.3...	169740	19.285	19.285	1....	H1-1b
18	M24	HSS4.5X4.5...	.162	0	14	.054	0	y	22	119907.9...	121302	16.25	16.25	1....	H1-1b
19	MP1A	PIPE_2.0	.255	2.875	15	.071	2.875		15	20866.733	32130	1.872	1.872	3....	H1-1b
20	MP2A	PIPE_2.0	.108	.375	4	.051	1.438		6	20866.733	32130	1.872	1.872	2....	H1-1b
21	MP3A	PIPE_2.0	.484	2.875	1	.096	2.875		3	20866.733	32130	1.872	1.872	4....	H1-1b
22	MP4A	PIPE_2.0	.178	2.875	23	.040	2.875		8	20866.733	32130	1.872	1.872	3....	H1-1b
23	MP1C	PIPE_2.0	.194	2.875	23	.040	1.438		12	20866.733	32130	1.872	1.872	3....	H1-1b
24	MP2C	PIPE_2.0	.101	2.875	11	.055	1.438		14	20866.733	32130	1.872	1.872	2....	H1-1b
25	MP3CA	PIPE_2.0	.331	2.875	11	.153	1		12	20866.733	32130	1.872	1.872	1....	H1-1b
26	MP4CA	PIPE_2.0	.238	2.875	18	.092	.375		24	20866.733	32130	1.872	1.872	1....	H1-1b
27	MP1B	PIPE_2.0	.246	2.875	5	.060	2.875		7	20866.733	32130	1.872	1.872	1....	H1-1b
28	MP2B	PIPE_2.0	.099	2.875	1	.043	.375		4	20866.733	32130	1.872	1.872	3....	H1-1b
29	MP3B	PIPE_2.0	.483	2.875	5	.094	2.875		3	20866.733	32130	1.872	1.872	1....	H1-1b
30	MP4B	PIPE_2.0	.215	2.875	15	.045	2.875		12	20866.733	32130	1.872	1.872	2....	H1-1b
31	MP3C	PIPE_2.0	.135	5	11	.084	1		2	20866.733	32130	1.872	1.872	1....	H1-1b
32	M61	PIPE_2.5	.084	10.125	16	.050	10.125		6	12481.817	50715	3.596	3.596	1....	H1-1b
33	M66	PIPE_2.5	.102	6.188	14	.059	11.953		14	12481.817	50715	3.596	3.596	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
34	M71	PIPE_2.5	.083	10.125	12	.046	6.188		11	12481.817	50715	3.596	3.596	1	H1-1b
35	M82	L3X3X4	.131	0	5	.057	2.178	y	43	42001.368	46656	1.688	3.756	2....	H2-1
36	M83	L3X3X4	.165	2.178	14	.028	2.178	y	15	42001.368	46656	1.688	3.756	2....	H2-1
37	M84	L3X3X4	.094	0	15	.029	0	y	16	42001.368	46656	1.688	3.756	1....	H2-1
38	M86	LL3x3x3x6	.085	6.281	13	.004	0	y	16	46017.434	70632	6.362	3.751	1	H1-1b*
39	M88	LL3x3x3x6	.092	6.281	21	.006	0	y	48	46017.434	70632	6.362	3.751	1	H1-1b*
40	M90	LL3x3x3x6	.101	6.281	17	.004	0	z	8	46017.434	70632	6.362	3.751	1	H1-1b*
41	MP4C	PIPE_2.0	.078	1	5	.037	1		3	20866.733	32130	1.872	1.872	2....	H1-1b

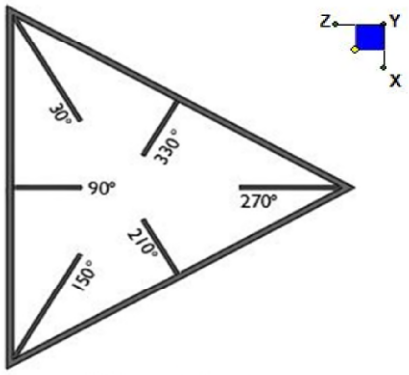
Client:	Verizon Wireless	Date:	11/12/2021
Site Name:	BLOOMFIELD 3 CT		
Project No.	21777224A		
Title:	Mount Analysis	Page:	1

Version 3.1

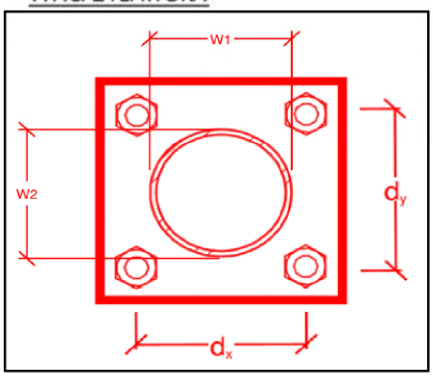
I. Mount-to-Tower Connection Check

RISA Model Data

Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N7	90
N27	330
N17	210



TYPICAL PLATFORM



Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
W1 (in):	4
W2 (in):	4
Weld Size (1/16 in):	5
Phi*Rn (kip/in):	6.96
Required Weld Strength (kip/in):	2.31
Weld Capacity:	**33.2%**

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@colliersengineering.com

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

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

Base Requirements:

- If installation of the modification will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: **https://pmi.vzwsmart.com**

Photo Requirements:

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation of the modifications.
  - Photos of the mount 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 the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.

        - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
    - Photos that show the model number of each antenna and piece of equipment installed per sector.
    - Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
    - Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
    - If the materials are as specified on the drawings
        - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
        - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
    - If seeking permission to use an equivalent
        - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.

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

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

OR

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

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

Comments:

Certifying Individual:

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

Was the mount modification completed in conjunction with the equipment change / installation?

☐ Yes ☐ No

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

Contractor to install safety climb cable guide in locations where wire rope is rubbing against mount collar. Contractor to provide photos of safety climb cable guide installation. Contractor shall inspect all mount bolts and replace any damaged or missing members as needed.

Response:

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

☐ Safety Climb Obstructed

Comments:

Structure: 468782-VZW - BLOOMFIELD 3 CT

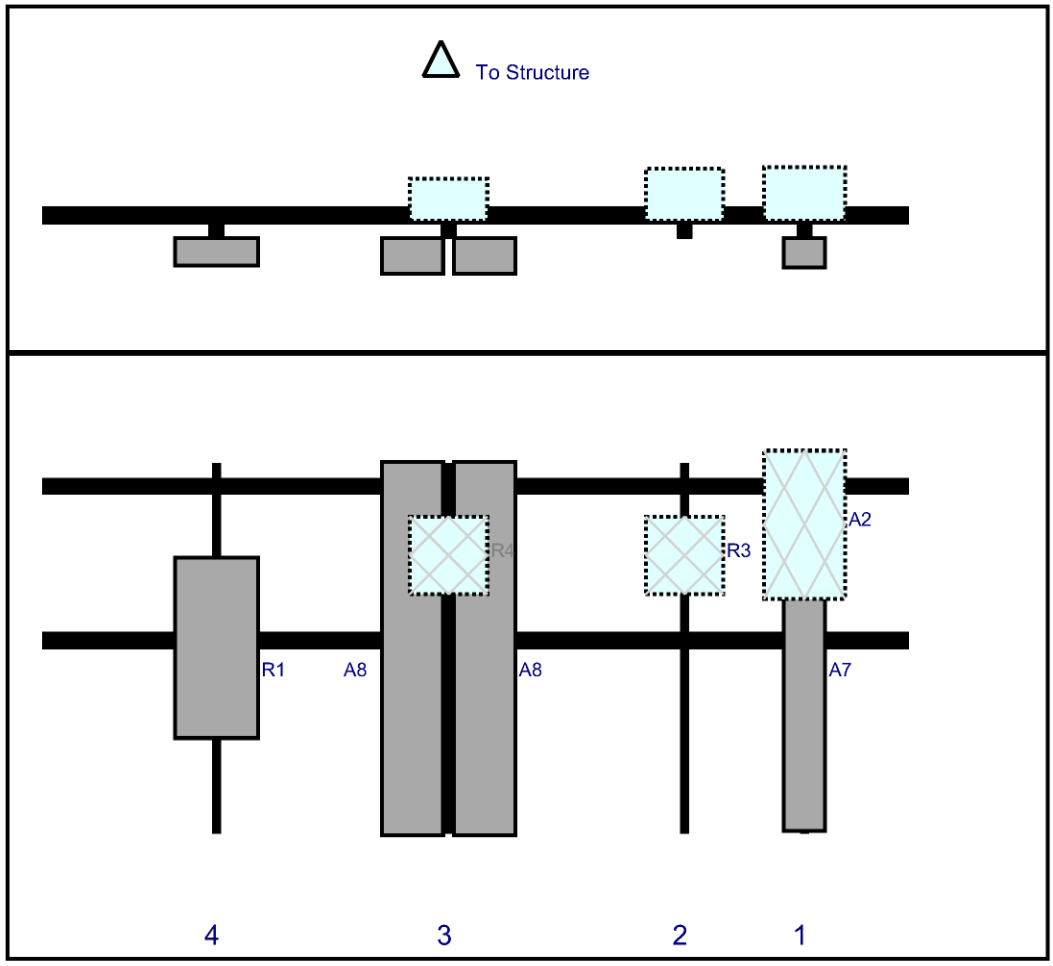
Sector: **A** 11/12/2021

Structure Type: Monopole 10115591

Mount Elev: 105.00 Page: 1

Plan View

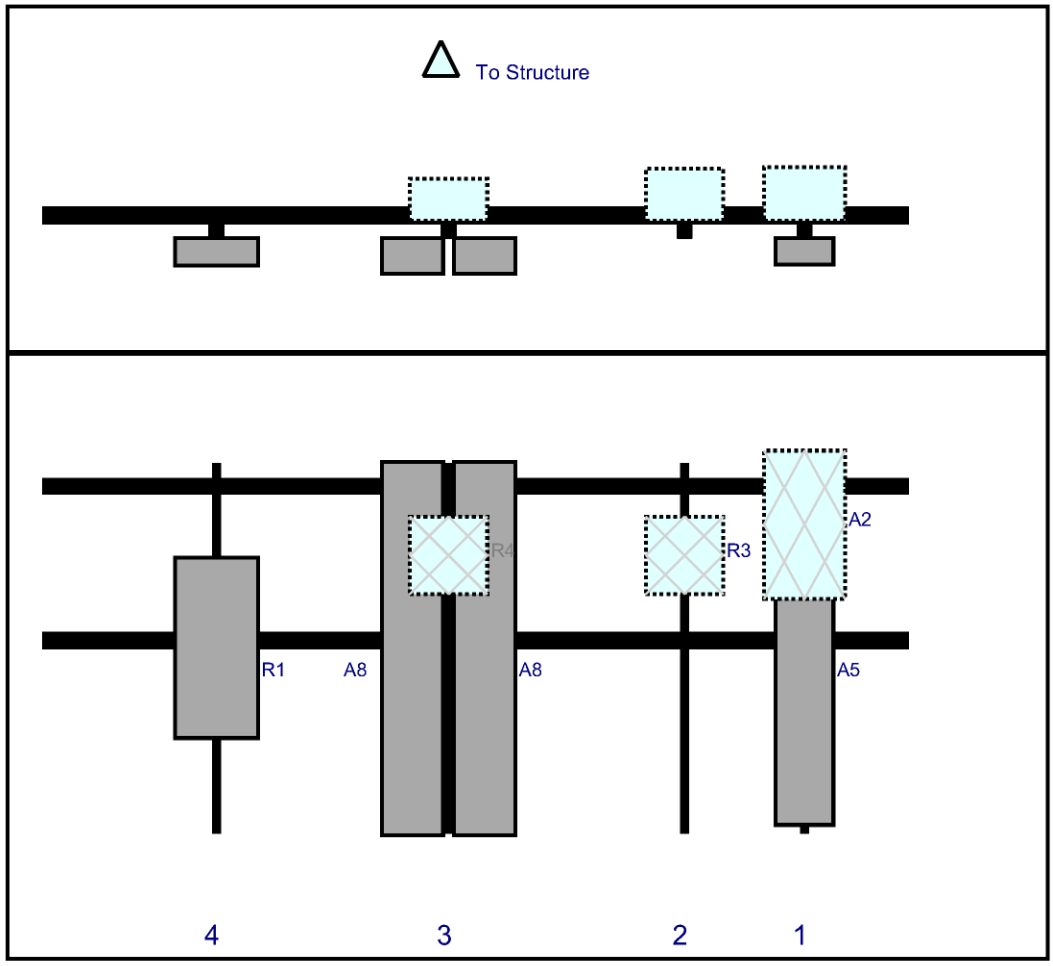
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	BXA-80080-6CF-EDIN-2	71	8	147.75	1	a	Front	36	0	Retained	10/24/2021
A2	DB-B1-6C-12AB-0Z	28.9	15.7	147.75	1	a	Behind	12	0	Added	
R3	B2/B66A RRH-BR049	15	15	124.5	2	a	Behind	18	0	Added	
A8	SBNHH-1D65B	72.6	11.9	78.75	3	a	Front	36	7	Retained	10/24/2021
A8	SBNHH-1D65B	72.6	11.9	78.75	3	b	Front	36	-7	Retained	10/24/2021
R4	B5/B13 RRH-BR04C	15	15	78.75	3	a	Behind	18	0	Added	
R1	MT6407-77A	35.1	16.1	33.75	4	a	Front	36	0	Added	

Plan View

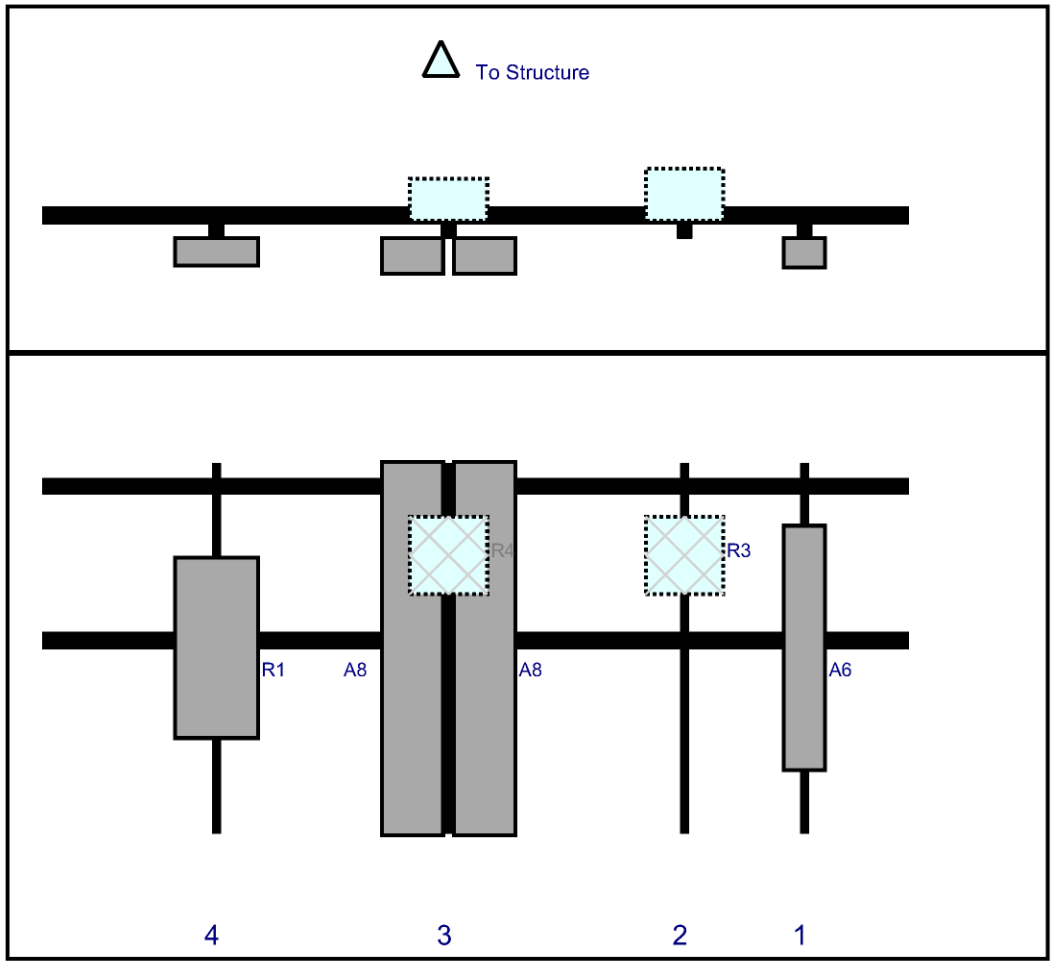
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A8	SBNHH-1D65B	72.6	11.9	78.75	3	a	Front	36	7	Retained	10/24/2021
A8	SBNHH-1D65B	72.6	11.9	78.75	3	b	Front	36	-7	Retained	10/24/2021
R4	B5/B13 RRH-BR04C	15	15	78.75	3	a	Behind	18	0	Added	
R1	MT6407-77A	35.1	16.1	33.75	4	a	Front	36	0	Added	
A5	BXA-80063-4BF-EDIN-0	68.6	11.2	147.75	1	a	Front	36	0	Retained	10/24/2021
A2	DB-B1-6C-12AB-0Z	28.9	15.7	147.75	1	a	Behind	12	0	Added	
R3	B2/B66A RRH-BR049	15	15	124.5	2	a	Behind	18	0	Added	

Plan View

Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	BXA-80080-4CF-EDIN-0	47.5	8	147.75	1	a	Front	36	0	Retained	10/24/2021
R3	B2/B66A RRH-BR049	15	15	124.5	2	a	Behind	18	0	Added	
A8	SBNHH-1D65B	72.6	11.9	78.75	3	a	Front	36	7	Retained	10/24/2021
A8	SBNHH-1D65B	72.6	11.9	78.75	3	b	Front	36	-7	Retained	10/24/2021
R4	B5/B13 RRH-BR04C	15	15	78.75	3	a	Behind	18	0	Added	
R1	MT6407-77A	35.1	16.1	33.75	4	a	Front	36	0	Added	

Maser Consulting Connecticut

Subject	TIA-222-H Usage	
Site Information	Site ID:	468782-VZW / BLOOMFIELD 3 CT
	Site Name:	BLOOMFIELD 3 CT
	Carrier Name:	Verizon Wireless
	Address:	785 Park Ave Bloomfield, Connecticut 06002 Hartford County
	Latitude:	41.828486°
	Longitude:	-72.733233°
Structure Information	Tower Type:	137-Ft Monopole
	Mount Type:	14.00-Ft Platform

To Whom It May Concern,

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

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

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

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

Sincerely,

Peter Albano, PE
Project Manager

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 14.00' PLATFORM

TOWER OWNER: N/A
TOWER OWNER SITE NUMBER: N/A

CARRIER SITE NAME: BLOOMFIELD 3 CT
CARRIER SITE NUMBER: 468782
FUZE ID: 16272375

785 NEW PARK AVE
BLOOMFIELD, CT 06002
HARTFORD COUNTY

LATITUDE: 41.828486° N
LONGITUDE: 72.733233° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 116 MPH
EXPOSURE CATEGORY C
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 118.67'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.50 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_S = 0.181
LONG TERM MCER GROUND MOTION, S_1 = 0.055

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: COLLIERS ENGINEERING & DESIGN
CONTACT: PETER ALBANO
PHONE: 856.797.0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10115591
VZW LOCATION CODE (PSLC): 468782
ANALYSIS DATE: 11/16/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

Colliers Engineering & Design
www.colliersengineering.com

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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE:	JOB NUMBER:
AS SHOWN	21777224A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	11/16/21	ISSUED FOR CONSTRUCTION	AH	PMA

STATE OF CONNECTICUT
PETER MICHAEL ALBANO
No. 35459
LICENSED PROFESSIONAL ENGINEER
COLLIERS ENGINEERING & DESIGN
11/16/21

SITE NAME:
BLOOMFIELD 3 CT
468782
785 NEW PARK AVE
BLOOMFIELD, CT 06002
HARTFORD COUNTY

Colliers Engineering & Design
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERSENGINEERING.COM/CT P.C.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE: TITLE SHEET

SHEET NUMBER: ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	VZWSMART	VZWSMART-PLK3	SUPPORT RAIL CORNER BRACKET		30	90
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	291	291
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
2		VZWSMART-MSK3D	PIPE TO PIPE CLAMPS		42	84
2		VZWSMART-P40-238X072	72" LONG, PIPE 2 STD (2.375"OD X 0.154" THK)		22	44
12		VZWSMART-MSK1	CROSSOVER PLATE		14	168

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
3	-	-	162" LONG, P2 1/2 STD PIPE	GALVANIZED.	79	237
3	-	-	30" LONG, L3x3x1/4 ANGLE	GALVANIZED. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	13	39
6	-	-	6" LONG, HSS3x3x1/4 SHIM	GALVANIZED.	5	30
					TOTAL:	1133

VZWSMART KITS - APPROVED VENDORS

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

NOTES:

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

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STATE OF CONNECTICUT
PETER MICHAEL ALBANO
No. 35458
LICENSED PROFESSIONAL ENGINEER
11/16/21

SITE NAME:

BLOOMFIELD 3 CT
468782

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1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERSENGINEERING.COM (CT P.C. DOING BUSINESS AS MASER CONSULTING)

SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: SBOM-1

PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

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

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

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

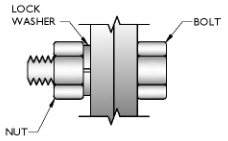
1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
7. CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA, ANSI/ASSP A10.48, ANSI Z49.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

BOLT SCHEDULE (IN.)

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

WORKABLE GAGES (IN.)

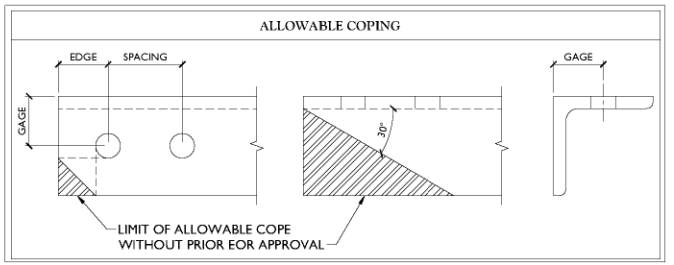
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

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



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SCALE:	JOB NUMBER:
AS SHOWN	21777224A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	11/16/21	ISSUED FOR CONSTRUCTION	AH	PMA

STATE OF CONNECTICUT
PETER MICHAEL ALBANO
No. 35458
LICENSED PROFESSIONAL ENGINEER
COLLIERS ENGINEERING & DESIGN
11/16/21

SITE NAME:

BLOOMFIELD 3 CT
468782

785 NEW PARK AVE
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Colliers Engineering & Design
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERSENGINEERING & DESIGN (CT), P.C.
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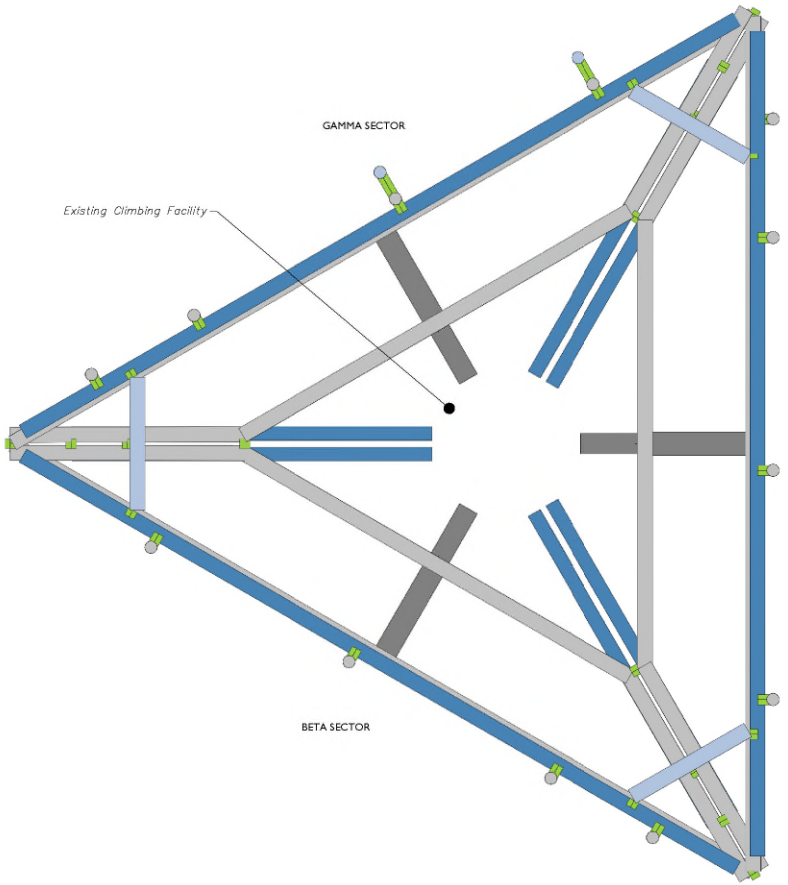
SHEET TITLE:
MODIFICATION NOTES

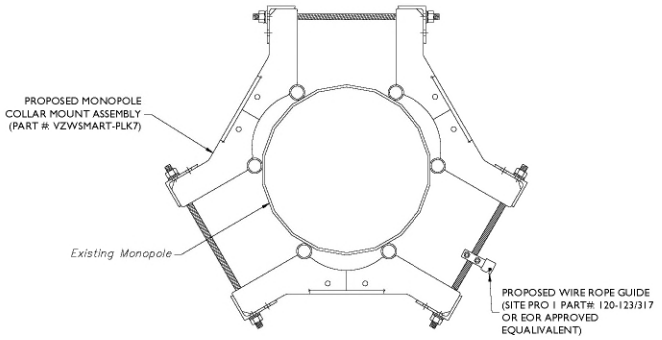
SHEET NUMBER:
SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 CLIMBING FACILITY LOCATION

SCALE : N.T.S.



2 PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW

SCALE : N.T.S.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING, LLC ON 10/24/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (104'-0") ARE IN GOOD CONDITION. MASER CONSULTING DOES NOT WARRANT THIS INFORMATION.

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

CLIMBING FACILITY PHOTO

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11/16/21

SITE NAME:

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468782

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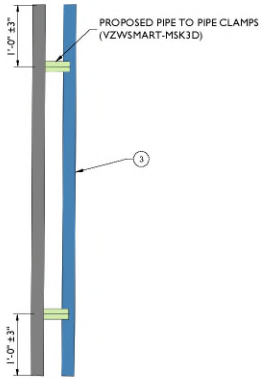
SHEET TITLE: CLIMBING FACILITY DETAIL

SHEET NUMBER: SCF-1

LEGEND:

- PROPOSED
- RELOCATED
- EXISTING



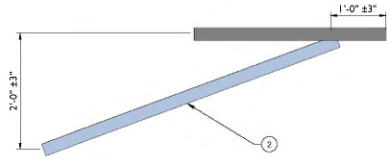
MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	105'-0"	3	PROPOSED SUPPORT RAIL CORNER BRACKET (PART #: VZWSMART-PLK3) WITH PROPOSED L3X3X1/4 ANGLE.	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT PROPOSED L3X3X1/4 ANGLES TO CORNER BRACKETS USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION.
2		1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5))	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7). CONNECT KICKER KIT TO THE PLATFORM ANGLES USING 6" LONG, HSS3x3x1/4 SHIM. REFER TO DETAIL 4 ON SHEET SS-1.
3		2	PROPOSED 72" LONG, P2 STD (PART #: VZWSMART-P40-238X072)	CONNECT NEW MOUNT PIPE TO THE EXISTING MOUNT PIPES IN POSITION 3 AND 4 ON GAMMA SECTOR WITH PROPOSED PIPE TO PIPE CLAMPS (VZWSMART-MSK3D). REFER TO DETAIL 1 ON SHEET SS-1.
4		3	162" LONG, P2 1/2 STD PIPE	RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

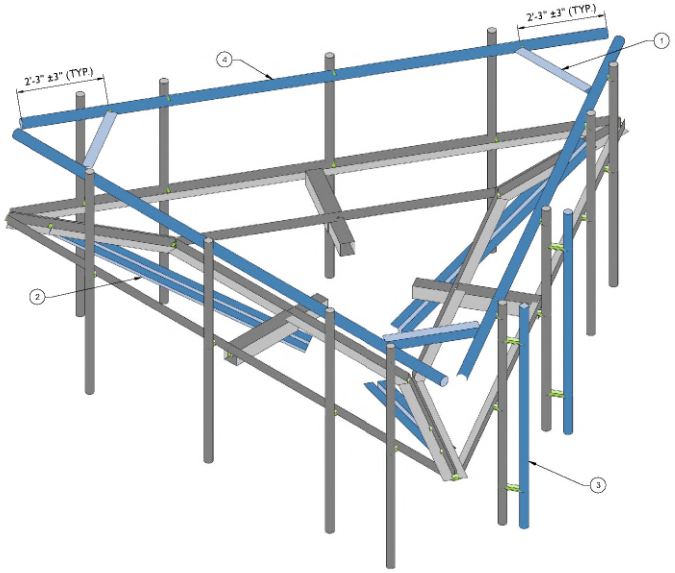
NOTES.

MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
CONTRACTOR SHALL INSPECT ALL MOUNT BOLTS AND REPLACE ANY MISSING OR DAMAGED MEMBERS.

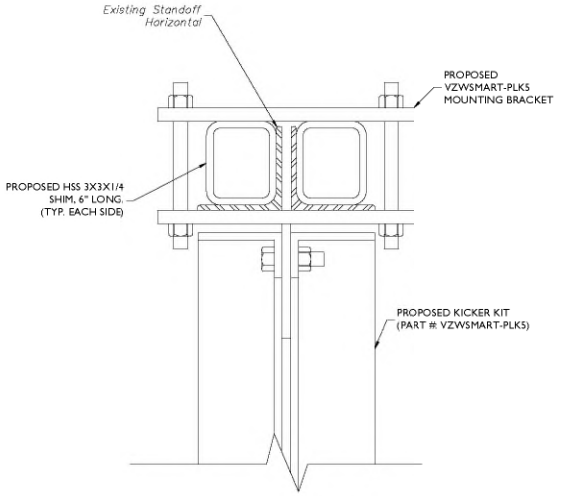
1 PROPOSED PIPE TO PIPE CLAMP DETAIL
SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)
SCALE : N.T.S.



3 PROPOSED ISOMETRIC VIEW
SCALE : N.T.S.



4 KICKER TO STANDOFF CONNECTION DETAIL
SCALE : N.T.S.

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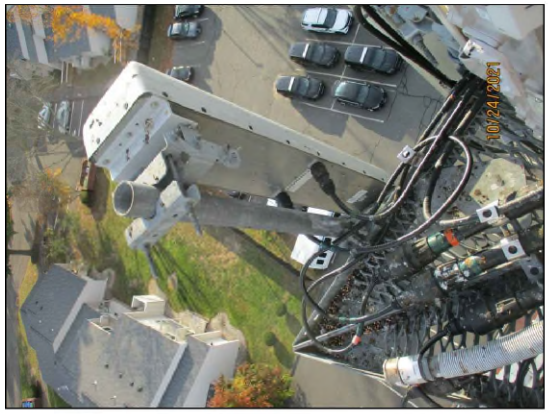
SHEET TITLE: MODIFICATION DETAILS

SHEET NUMBER: SS-1

MOUNT PHOTO 1

MOUNT PHOTO 2



MOUNT PHOTO 3

MOUNT PHOTO 4

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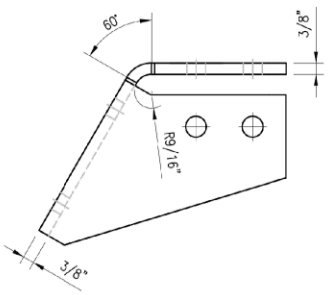
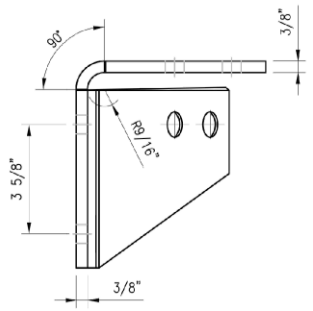
SHEET TITLE:
MOUNT PHOTOS

SHEET NUMBER:
SS-2

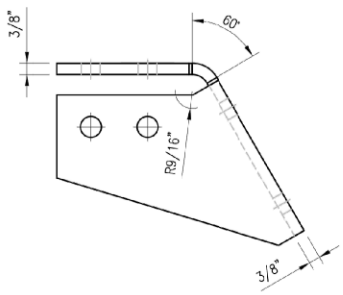


TOP VIEW

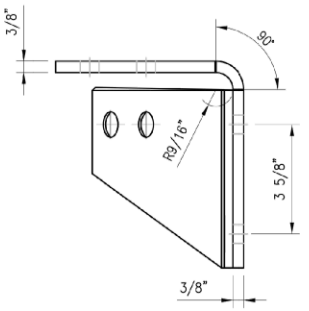


SIDE VIEW

CBP-L



TOP VIEW



SIDE VIEW

CBP-R

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

VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	16	NUT-625	5/8" HDG HEX NUT	---	2
				GALVANIZED WT	30

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DRAWN BY: H.R | CHECKED BY: HMA

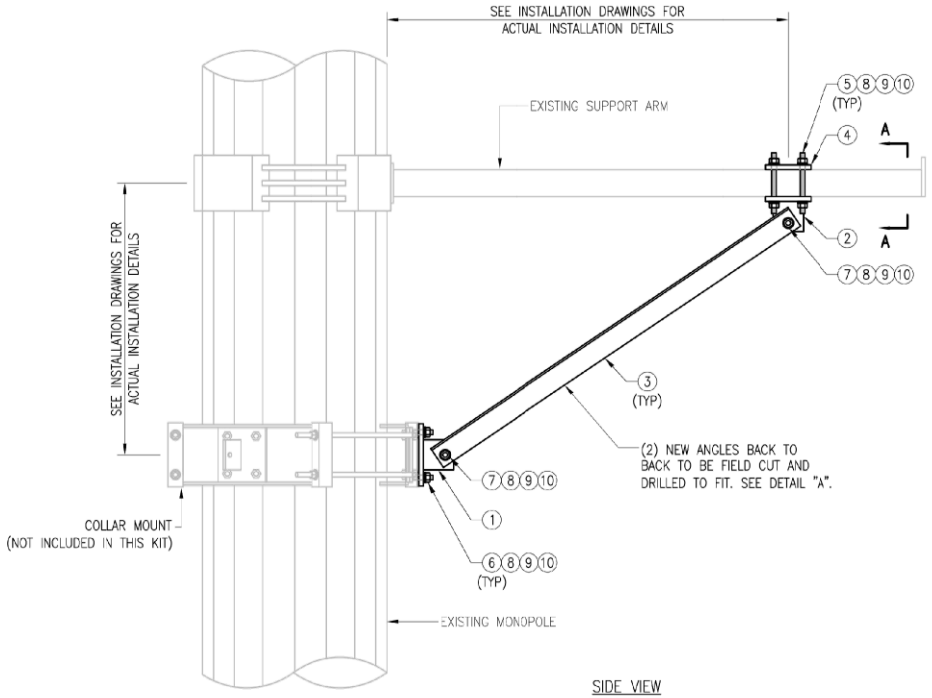
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
VZWSMART-PLK3
SUPPORT RAIL CORNER
BRACKET

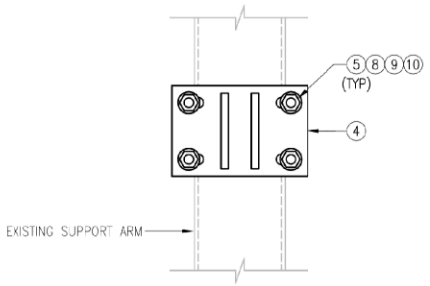
SHEET NUMBER: VZWSMART-PLK3

REV #: 0

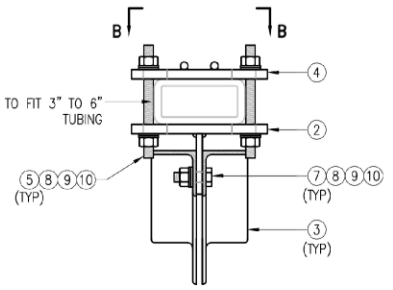
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



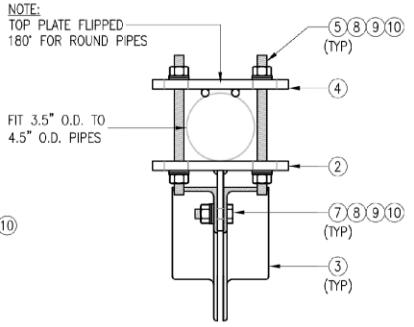
SIDE VIEW
KICKER KIT



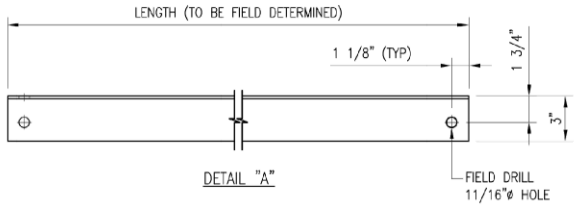
SECTION "B–B"



SECTION "A–A"
RECT. HSS MOUNTING



SECTION "A–A"
ROUND PIPE MOUNTING



DETAIL "A"

VZWSMART–PLK5 (KICKER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW–XXX	BRACKET WELDMENT A36	PLK5–F3	43.8
2	3	BRKW–XXXX	BRACKET WELDMENT A36	PLK5–F2	35.7
3	6	L331875–8	L 3" X 3" X 3/16" X 8'–0" A36	PLK5–F4	182.9
4	3	PL–KI	PL 5/8" X 6" X 9" A36	PLK5–F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'–0" F1554–36 HDG	---	--
6	6	---	BOLT 5/8" X 2" A325	---	--
7	12	---	BOLT 5/8" X 2 1/2" A325	---	--
8	42	FW–625	5/8" HDG USS FLAT WASHER	---	.3
9	42	LW–625	5/8" HDG LOCK WASHER	---	1
10	42	NUT–625	5/8" HDG HEX NUT	---	5
				GALVANIZED WT	291

NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT–DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

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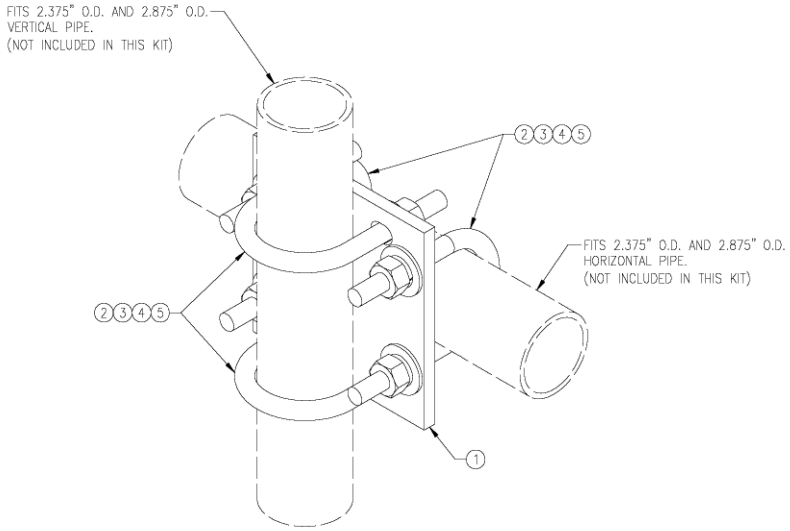
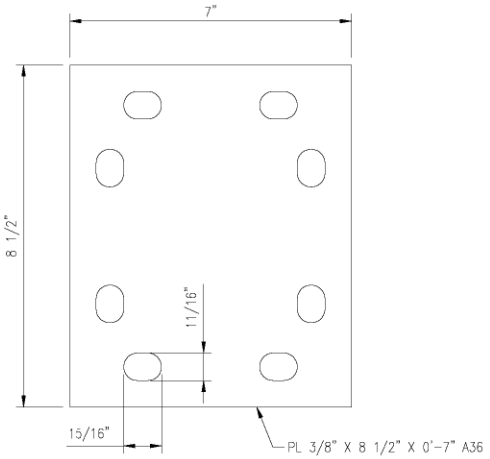
DRAWN BY: MN | CHECKED BY: HMA/KW

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

SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5
REV #: 0





PL375-857

VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	14

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

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verizon

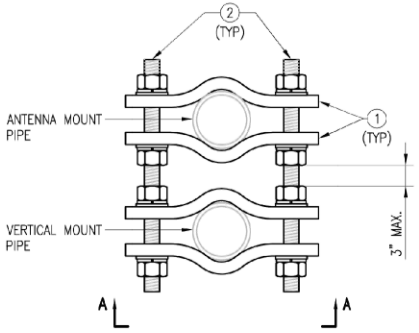
DRAWN BY: H.R	CHECKED BY: HMA

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

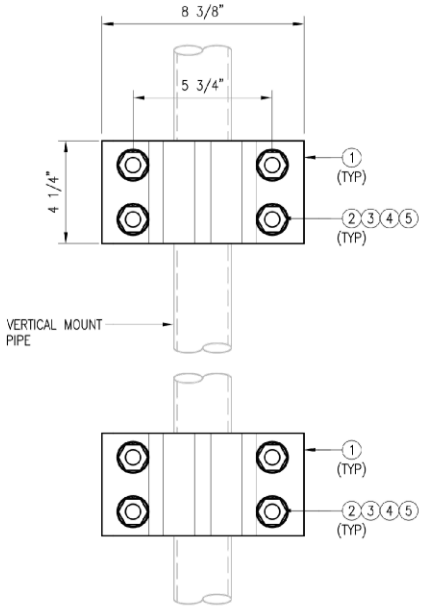
SHEET TITLE:

VZWSMART-MSK1
CROSSOVER PLATE

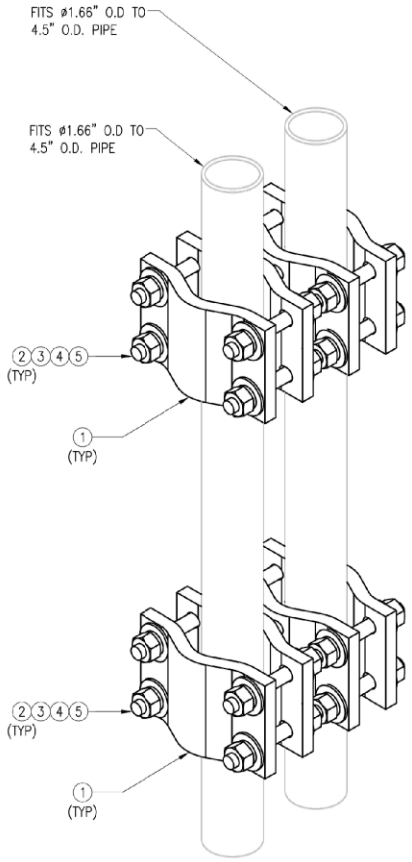
SHEET NUMBER:	REV #:
VZWSMART-MSK1	0



PIPE TO PIPE CLAMPS
PLAN VIEW



SECTION "A-A"



PIPE TO PIPE CLAMPS
ISOMETRIC VIEW

NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 4.5" O.D. PIPE

VZWSMART-MSK3D (PIPE TO PIPE CLAMPS)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	8	V-CLAMP	PL 1/2" X 4 1/4" X 8 5/8" A36 BEND PLATE	MSK3D-F1	42
2	8	---	THREADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	---	--
3	32	FW-625	5/8" HDG USS FLAT WASHER	---	3
4	32	LW-625	5/8" HDG LOCK WASHER	---	1
5	32	NUT-625	5/8" HDG HEX NUT	---	4
				GALVANIZED WT	42

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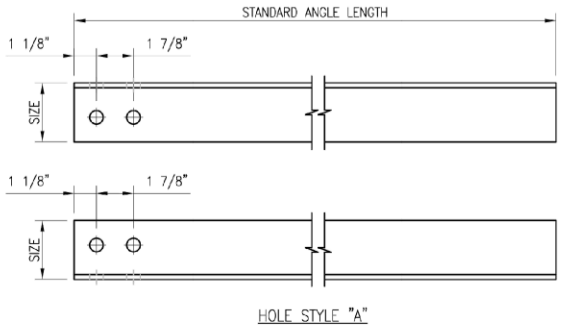
DRAWN BY: BT | CHECKED BY: HMA/KW

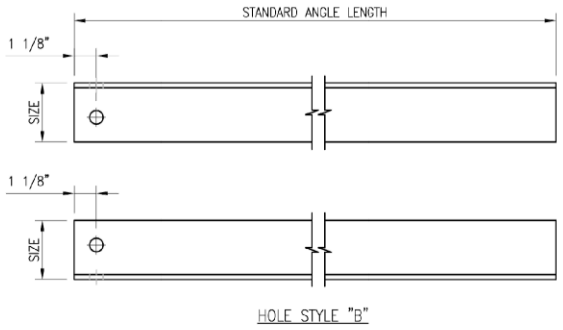
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	05/08/20

SHEET TITLE:
VZWSMART-MSK3D
PIPE TO PIPE CLAMPS

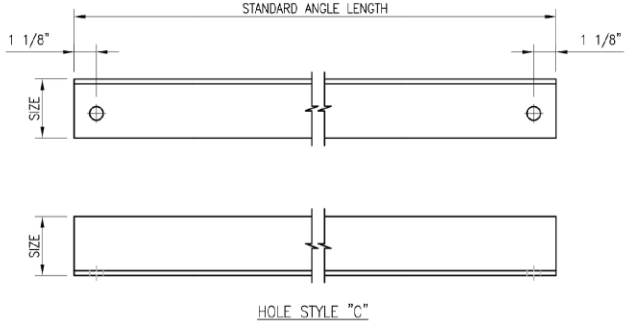
SHEET NUMBER: VZWSMART-MSK3D
REV #: 0



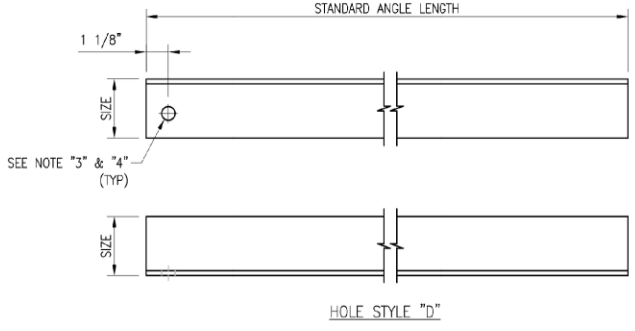
HOLE STYLE "A"



HOLE STYLE "B"



HOLE STYLE "C"



HOLE STYLE "D"

VZWSMART Standard Angle					
VZWSMART Number	Size	Length	Hole Style	Hole Gage	Also Used In:
A-PLK2-01	L 3" X 3" X 1/4"	96"	A	1-3/4"	VZWSMART-PLK2
A-PLK5-01	L 3"X 3" X 3/16"	96"	B	1-3/4"	VZWSMART-PLK5
A-SFK3-01	L 2-1/2" X 2-1/2" X 1/4"	96"	C	1-3/8"	VZWSMART-SFK3, -SFK3-SL, -PLK6, & -PLK8
A-L25X25X4X120	L 2-1/2" X 2-1/2" X 1/4"	120"	D	1-5/16"	
A-L25X25X4X240	L 2-1/2" X 2-1/2" X 1/4"	240"	D	1-5/16"	
A-L30X30X4X120	L 3" X 3" X 1/4"	120"	D	1-1/2"	
A-L30X30X4X240	L 3" X 3" X 1/4"	240"	D	1-1/2"	
A-L40X40X4X120	L 4" X 4" X 1/4"	120"	D	2"	
A-L40X40X4X240	L 4" X 4" X 1/4"	240"	D	2"	
A-L50X30X6X120	L 5" X 3" X 3/8"	120"	D	2-1/2"	
A-L50X50X6X120	L 5" X 5" X 3/8"	120"	D	2-1/2"	

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

NOTES:
1. ALL ANGLE GRADE A36 OR BETTER.
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. ALL HOLES ARE 11/16" DIA. U.N.O
4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

VzW SMART Tool© Vendor

verizon

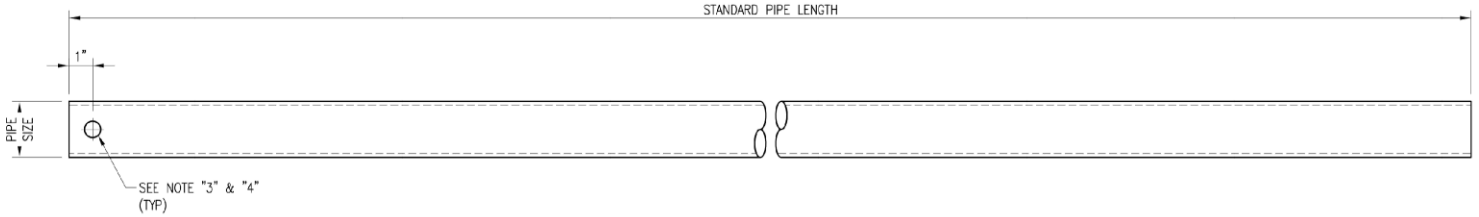
DRAWN BY: BT | CHECKED BY: HMA/KW

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

SHEET TITLE:
VZWSMART STANDARD ANGLE

SHEET NUMBER: VZWSMART-ANGLE

REV #: 0



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

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

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

VzW SMART Tool© Vendor

verizon

DRAWN BY: BT | CHECKED BY: HMA/KW

REV	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	08/04/21

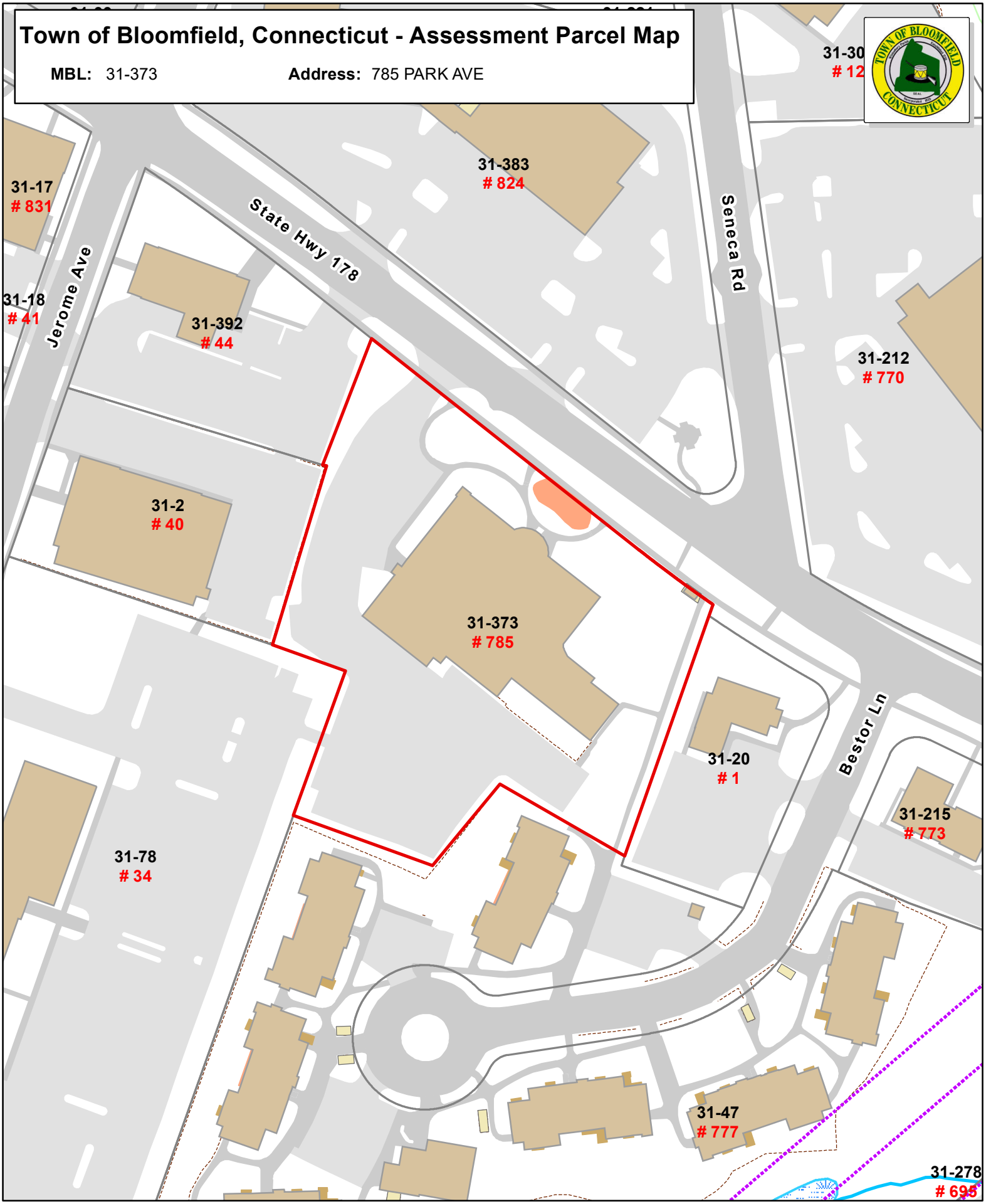
SHEET TITLE:
VZWSMART STANDARD PIPE

SHEET NUMBER: VZWSMART-PIPE | REV #: 0

ATTACHMENT 5

Town of Bloomfield, Connecticut - Assessment Parcel Map

MBL: 31-373 **Address:** 785 PARK AVE



N W E S

Approximate Scale:

1 inch = 100 feet

Disclaimer:
This map is for informational purposes only.
All information is subject to verification by any user.
The Town of Bloomfield and its mapping contractors
assume no legal responsibility for the information contained herein.

Map Produced December 2021

Town of Bloomfield, CT

Property Listing Report

Map Block Lot	31-373	Building #	1	PID	7721	Account	

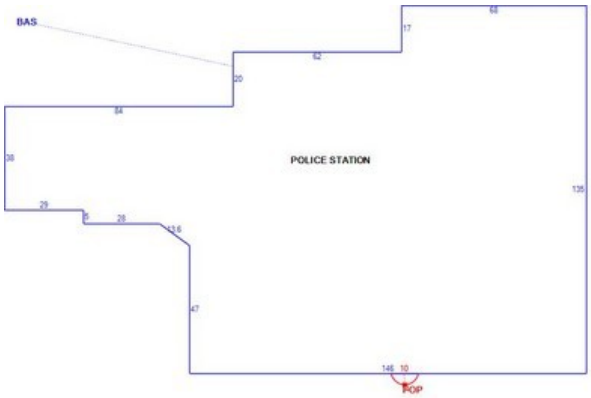
Property Information

Property Location	785 PARK AVE
Owner	BLOOMFIELD TOWN OF
Co-Owner	POLICE STATION
Mailing Address	800 BLOOMFIELD AVE. BLOOMFIELD CT 06002
Land Use	922 Mun Bldg Com
Land Class	E
Zoning Code	BCD
Census Tract	4713

Site Index	C
Acreage	2.25
Utilities	
Lot Setting/Desc	
Fire District	C
Book / Page	0033/0070

Photo

Sketch



Primary Construction Details

Year Built	1991
Building Desc.	Commercial
Building Style	Other Municip
Building Grade	C
Stories	1
Occupancy	1.00
Exterior Walls	Brick/Masonry
Exterior Walls 2	NA
Roof Style	Flat
Roof Cover	Enam Mtl Shing
Interior Walls	Drywall
Interior Walls 2	NA
Interior Floors 1	Carpet
Interior Floors 2	

Heating Fuel	Gas
Heating Type	Forced Air
AC Type	100
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Bsmt Fin Area	0
Rec Rm Area	0
Bsmt Gar	0
Fireplaces	0

(*Industrial / Commercial Details)

Building Use	Commercial
Building Condition	A
Sprinkler %	100
Heat / AC	None
Frame Type	Masonry
Baths / Plumbing	Average
Ceiling / Wall	Ceil & Wall
Rooms / Prtns	Average
Wall Height	16.00
First Floor Use	
Foundation	POURED CONC.

Report Created On 7/21/2022

Town of Bloomfield, CT

Property Listing Report

Map Block Lot	31-373	Building #	1	PID	7721	Account	

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	3477300	2434110
Extras	1500	1050
Improvements		
Outbuildings	119300	83510
Land	540000	378000
Total	4138100	2896670

Outbuilding and Extra Features

Type	Description
Light Single	66 UNITS
Paving	34040 S.F.
Ovhd 8'	2 UNITS
Fence	2052 L.F.

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	20887	20887
Finished Open Porch	30	0
Total Area	20917	20887

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
BLOOMFIELD TOWN OF	0033/0070	1900-01-01	0

Report Created On 7/21/2022

ATTACHMENT 6

BLOOMFIELD 3

UNITED STATES POSTAL SERVICE®

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	2	2	neopost 07/25/2022 US POSTAGE $003.09⁰ ZIP 06103 041L1220[illegible]
	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.	Stanley Hawthorne, Town Manager Town of Bloomfield 800 Bloomfield Avenue Bloomfield, CT 06002			OLD STATE HOUSE STATION 06103 JUL 25 2022 USPS	
2.	Jennifer Valentino-Rodriguez, Director of Planning and Zoning Town of Bloomfield 800 Bloomfield Avenue Bloomfield, CT 06002				
3.					
4.					
5.					
6.					