

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

July 27, 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
38 Spring Hill Road, Bethel, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility 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 Siting Council (“Council”) in August of 2004 (Docket No. 288). Cellco’s use of the tower was approved by the Council in April of 2006 (EM-VER-009-060405). Copies of the Council’s Docket No. 288 and EM-VER-009-060405 approvals are included in Attachment 1.

Cellco now intends to modify its facility by removing nine (9) existing antennas and installing four (4) MX06FIT665-02 antennas; two (2) MX06FRO640-02 antennas and three (3) MT6407-77A antennas on the existing antenna platform. Cellco also intends to replace nine (9) remote radio heads (“RRHs”) with six (6) new RRHs on the existing 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 Bethel’s Chief Elected Official

Melanie A. Bachman, Esq.
July 27, 2022
Page 2

and Land Use Officer. Please note that Blue Sky Towers LLC, identified as the owner in certain municipal records was recently acquired by American Tower Corporation.

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 and RRHs will be installed on Cellco's existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna platform 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 and the property owner is included in Attachment 6.

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

Melanie A. Bachman, Esq.
July 27, 2022
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Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Matthew Knickerbocker, Bethel First Selectman
Beth Cavagna, Director/Town Planner
American Tower Corporation, Property Owner
Karla Hanna, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 288 – AT&T Wireless PCS, LLC d/b/a AT&T Wireless and Valley Communications, Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at 38 Spring Hill Lane, Bethel, Connecticut.	}	Connecticut
	}	Siting
	}	Council
		August 12, 2004

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Valley Communications, Inc. for the construction, maintenance and operation of a wireless telecommunications facility at Site A, 38 Spring Hill Lane, Bethel, Connecticut. The Council denies certification of Site B, also located at 38 Spring Hill Lane, Bethel, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of AT&T Wireless PCS LLC, Sprint Spectrum L.P., Omnipoint Network Facilities Network 2 LLC, Nextel Communications, Inc., the Town of Bethel, Thomas Refuse, Utility Communications, Valley Communications, Inc. and other entities, both public and private, but such tower shall not exceed a height of 125 feet above ground level including appurtenances.
2. The Certificate Holder shall ensure that all tower users install the least visually obtrusive antennas and associated antenna mounts at the site while maintaining coverage objectives. Coverage objectives shall not be compromised by the use of such equipment.

3. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Bethel, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction. The D&M Plan shall include:

- a. a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment building, access road, utility line, and landscaping; and
- b. construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

4. The Certificate Holder shall remove the existing 90-foot guyed lattice tower at the site parcel within 60-days of completion of the approved facility.

5. Prior to submission of the D&M plan to the Council, the Certificate Holder shall discuss site construction details with the Town. Items to be discussed shall include but not limited to site clearing, site grading, access road improvements, erosion and sedimentation controls, fencing, access gate improvements, landscaping, and construction work hours. The Town and Certificate Holder shall agree upon all construction details prior to submission of the D&M to the Council.

6. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case

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

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

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

9. The Certificate Holder shall provide reasonable space on the tower for no compensation for any municipal antennas, provided such antennas are compatible with the structural integrity of the tower.

10. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

11. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.

12. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved. Any request for extension of this period shall be filed with the Council no later than sixty days prior to expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list. Any proposed modifications to this Decision and Order shall likewise be so served.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Hartford Courant, The Bethel Beacon, and the Danbury News Times.

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

The parties and intervenors to this proceeding are:

<p><u>Applicant</u></p> <p>AT&T Wireless PCS, LLC d/b/a AT&T Wireless</p>	<p><u>Its Representative</u></p> <p>Christopher B. Fisher, Esq. Cuddy & Feder LLP 90 Maple Avenue White Plains, New York 10601</p> <p>Paul Zito Valley Communications, Inc. 155 Wooster Street Shelton, CT 06484</p>
<p><u>Intervenor</u></p>	<p><u>Its Representative</u></p>

<p>Sprint Spectrum, L.P. d/b/a/ Sprint PCS</p>	<p>Thomas J. Regan, Esquire Brown Rudnick Berlack Israels LLP CityPlace I, 38th Floor 185 Asylum Street Hartford, CT 06103-3402</p>
<p><u>Intervenor</u> Omnipoint Facilities Network 2 LLC d/b/a T-Mobile</p>	<p><u>Its Representative</u> Stephen J. Humes LeBoeuf, Lamb, Greene & MacRae, LLP Goodwin Square 25 Asylum Street Hartford, CT 06103</p>
<p><u>Intervenor</u> William Huertas, Jr. 40 Spring Hill Lane Bethel, CT 06801</p>	
<p><u>Intervenor</u> James C. Kelleher 42 Spring Hill Lane Bethel, CT 06801</p>	
<p><u>Intervenor</u> Steven Mitchell 36 Spring Hill Lane Bethel, CT 06801</p>	
<p><u>Intervenor</u> Representative Hank Bielawa P.O. Box 689 Redding, CT 06896</p>	
<p><u>Intervenor</u> Alice M. Hutchinson First Selectman Town of Bethel 1 School Street Bethel, CT 06801</p>	

April 13, 2005

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

RE: **EM-VER-009-060405** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 38 Spring Hill Road, Bethel, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on April 12, 2006, 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 April 5, 2006, and additional information dated April 10, 2006, including the placement of all necessary equipment and shelters within the tower compound. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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,

Pamela B. Katz, P.E.
Chairman
PBK/laf

c: The Honorable Robert E. Burke, First Selectman, Town of Bethel
Steve Palmer, Planning & Zoning Official, Town of Bethel
Christopher B. Fisher, Cuddy & Feder LLP
Michele G. Briggs, New Cingular Wireless PCS, LLC
Thomas F. Flynn, III, Nextel Communications, Inc.
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP
Christine Farrell, T-Mobile

ATTACHMENT 2

verizon

WIRELESS COMMUNICATIONS FACILITY

BETHEL CT 38 SPRING HILL LANE BETHEL, CT 06801

DRAWING INDEX

- T-1 TITLE SHEET
- C-1 COMPOUND PLAN, TOWER ELEVATION & NOTES
- C-2 EXISTING & NEW EQUIPMENT MOUNTING CONFIGURATIONS
- B-1 RF BILL OF MATERIALS, EQUIPMENT SPECIFICATIONS & DETAILS.
- N-1 NOTES & SPECIFICATIONS

SITE DIRECTIONS

**START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492**

**END: 38 SPRING HILL LANE
BETHEL, CT 06801**

- | | |
|--|---------|
| 1. HEAD SOUTH TOWARDS ALEXANDER DRIVE | 279 FT |
| 2. SLIGHT RIGHT TOWARDS ALEXANDER DRIVE | 289 FT |
| 3. TURN RIGHT TOWARDS ALEXANDER DRIVE | 157 FT |
| 4. TURN RIGHT ONTO ALEXANDER DRIVE | 0.3 MI |
| 5. TURN RIGHT ONTO BARNES INDUSTRIAL RD S. | 0.1 MI |
| 6. TURN RIGHT ONTO CT-68 W | 0.4 MI |
| 7. TURN RIGHT ONTO N. COLONY RD | 0.3 MI |
| 8. TURN RIGHT ONTO CT-15 N | 0.5 MI |
| 9. CONTINUE ONTO CT-15 N | 3.1 MI |
| 10. TAKE EXIT 68 W TO 1-691 N | 7.9 MI |
| 11. TAKE EXIT 1 TO I-84 W | 1.0 MI |
| 12. CONTINUE ON I-84 W TO EXIT 11 | 29.3 MI |
| 13. TAKE EXIT 11 TOWARD CT-34/DERBY NEW HAVEN | 0.9 MI |
| 14. TURN LEFT ONTO WASSERMAN WAY | 1.0 MI |
| 15. CONTINUE ONTO MILE HILL ROAD | 0.5 MI |
| 16. TURN RIGHT ONTO CT-265/S. MAIN STREET | 0.7 MI |
| 17. TURN LEFT ONTO CT-302W/SUGAR STREET | 6.4 MI |
| 18. TURN LEFT ONTO HIGHLAND AVENUE | 0.3 MI |
| 19. CONTINUE ONTO GOVERNORS LANE | 479 FT |
| 20. TURN RIGHT ONTO SPRING HILL LANE (DESTINATION ON LEFT) | 0.6 MI |



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

SITE INFORMATION

VZ SITE NAME: BETHEL CT
VZ PROJ FLUZE I.D.: 16244638
VZ LOCATION CODE: 468263
VZ PROJECT CODE: 2020199011
LOCATION: 38 SPRING HILL LANE
BETHEL, CT 06801

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

MAP/BLOCK/LOT: 32/47A/121

ZONING DISTRICT: R-40 (INDUSTRIAL PARK)

LATITUDE: 41° 21' 43.94" N (41.36220556° N)

LONGITUDE: 73° 23' 47.50" W (73.39652778° W)

SITE COORDINATES AND GROUND ELEVATION OBTAINED FROM GOOGLE EARTH.

GROUND ELEVATION: 812 ± AMSL

PROPERTY OWNER: BLUE SKY TOWERS LLC
57 EAST WASHINGTON STREET
CHAGRIN FALLS, OH 44022

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

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

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

VERIZON SMART TOOL PROJECT # 10019432; 10038251

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) 663-0836

CONSTRUCTION DOCUMENTS

NO.	DATE	REVISION
0	03/11/21	FOR REVIEW: JRM
1	05/26/22	FOR FILING: JRM
2	07/16/22	FOR FILING: JRM
3		
4		
5		
6		



DESIGN PROFESSIONALS OF RECORD

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

OWNER: BLUE SKY TOWERS LLC
ADDRESS: 57 EAST WASHINGTON STREET
CHAGRIN FALLS, OH 44022

BETHEL CT

SITE: 38 SPRING HILL LANE

ADDRESS: BETHEL, CT 06801

APT FILING NUMBER: CT141_11860

DRAWN BY: CSH

DATE: 03/11/21 CHECKED BY: JRM

VZ PROJECT CODE: 2020199011

VZ LOCATION CODE: 468263

VZ FLUZE ID: 16244638

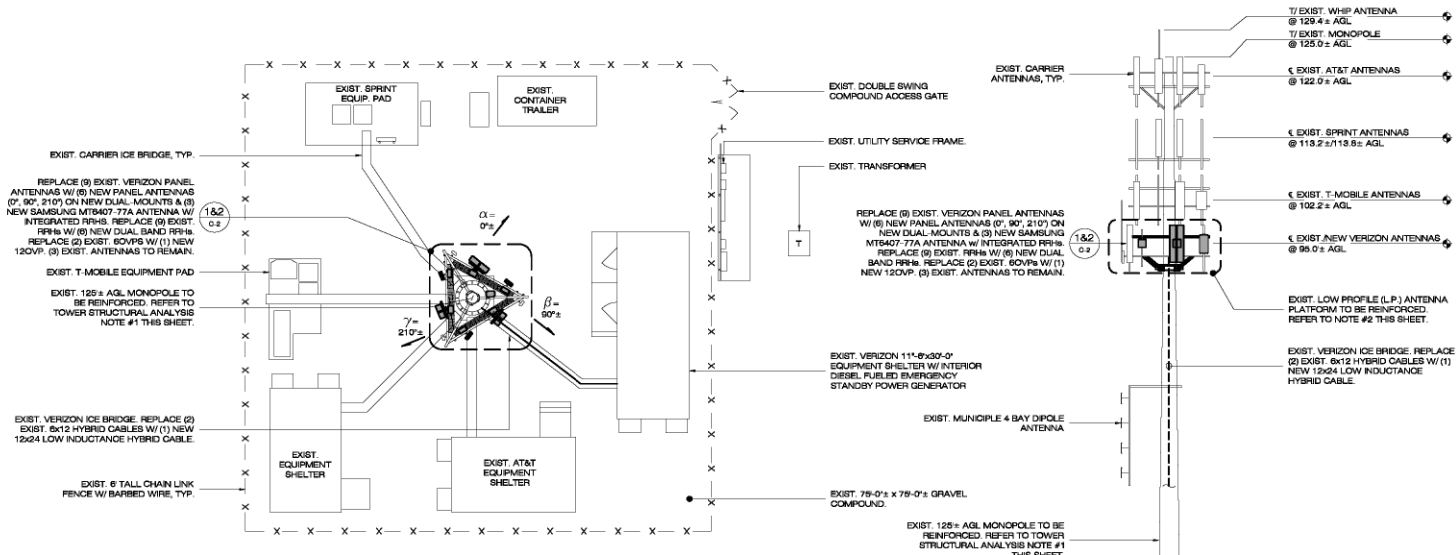
SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

- GENERAL ABBREVIATION LIST:**
- ASP ABOVE BASE PLATE
 - AGL ABOVE GROUND LEVEL
 - AMBL 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



1 COMPOUND PLAN
SCALE: 1" = 16'-0"
10' SCALE: 1 INCH = 10'-0"

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

- NOTES:**
- REFER TO MONOPOLE TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY AMERICAN TOWER CORPORATION, DATED 06/30/22 AVAILABLE UNDER SEPARATE COVER.
 - REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A. PROJECT #2077364A MARKED REV'D, DATED 02/11/21, POST MOD ANTENNA MOUNT REPORT & MOUNT MODIFICATION DRAWINGS DATED 02/11/21 AVAILABLE UNDER SEPARATE COVER.
 - BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 01/18/21.
 - PROJECT SCOPE INCLUDES THE FOLLOWING:
 - REPLACEMENT OF (5) EXIST. PANEL ANTENNAS W/ (6) NEW PANEL ANTENNAS ON NEW DUAL MOUNT (9N, 9VA, 919X0314-05) & (3) NEW SAMSUNG MT6407-77A ANTENNAS W/ INTEGRATED RRHs.
 - REPLACEMENT OF (5) EXIST. RRHs W/ (5) NEW DUAL BAND RRHs.
 - REPLACEMENT OF (2) EXIST. 60VPS W/ (1) NEW 120VP.
 - REPLACEMENT OF (2) EXIST. 6x12 HYBRID CABLES W/ (1) NEW 12x24 LOW-INDUCTANCE HYBRID CABLE.
 - REINFORCEMENT OF EXIST. ANTENNA PLATFORM (SEE NOTE 2 ABOVE).
 - ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG), PAINT TO MATCH EXIST. (WHERE APPLICABLE).
 - CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
 - MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH IEEE (IEEE 703, 783) AND MANUFACTURERS SPECIFICATION.
 - SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATION.
 - ROUND NEW ANTENNA MOUNTING PIPES TO ANTENNA SECTOR GROUND BAR W/ # 2 AWS, BOW, (WHERE APPLICABLE).
 - CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATION, INCLUDING VERIFICATION OF MINIMUM PRE-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.
 - ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
 - ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
 - REFER TO THE FINAL RRHS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLING & DOWN-TILT INFORMATION.
 - PAINT ALL LSRUB ANTENNAS TO MATCH EXISTING STRUCTURE (WHERE APPLICABLE). COORDINATE W/ LSRUB MANUFACTURER INSTALLATION MANUAL REQUIREMENTS, VERIZON CONSTRUCTION MANUAL REQUIREMENTS, VERIZON CONSTRUCTION MANAGER & OWNER.
 - PAINT ALL NEW NON SAMSUNG MT6407-77A ANTENNAS & APPLURTENANES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.



LOCATION PLAN
SCALE: 1" = 300'

Cellco Partnership d/b/a
verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

ALL-POINTS TECHNOLOGY CORPORATION

567 VAUGHAN STREET EXTENSION - SUITE 311
WATERFORD, CT 06385
PHONE: (860) 463-1867
WWW.ALLPOINTS.COM FAX: (860) 463-0836

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5		
6		



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COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
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WATERFORD, CT 06385

OWNER: BLUE SKY TOWERS LLC
ADDRESS: 57 EAST WASHINGTON STREET
CHAGRIN FALLS, OH 44022

BETHEL CT

SITE: 30 SPRING HILL LANE
ADDRESS: BETHEL, CT 06001

APT FILING NUMBER: CT141_11800

DRAWN BY: CSH

DATE: 03/11/21 CHECKED BY: JRM

VZ PROJECT CODE: 2029199011

VZ LOCATION CODE: 468263

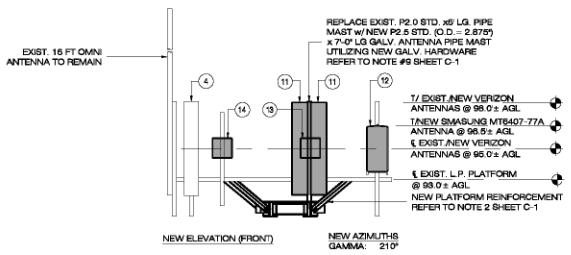
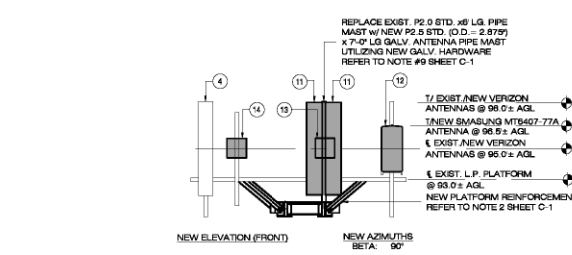
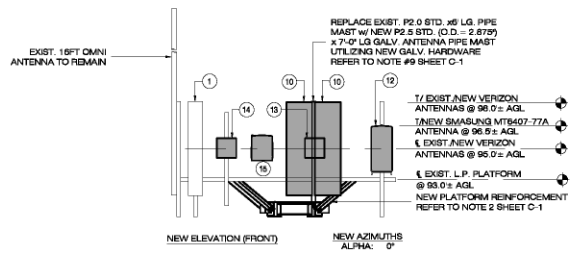
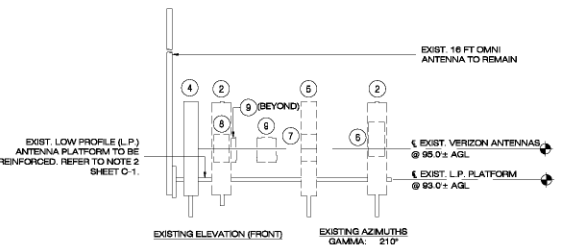
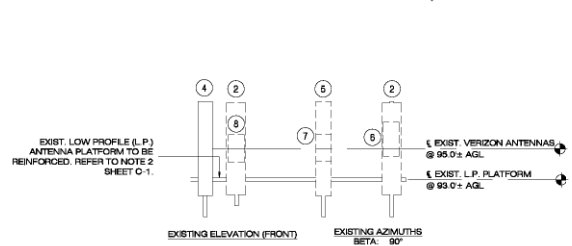
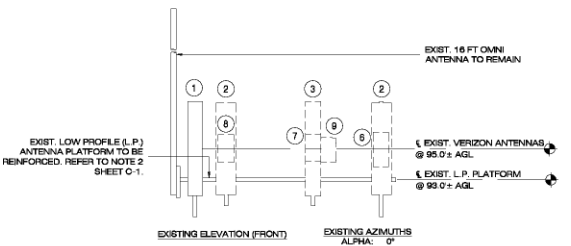
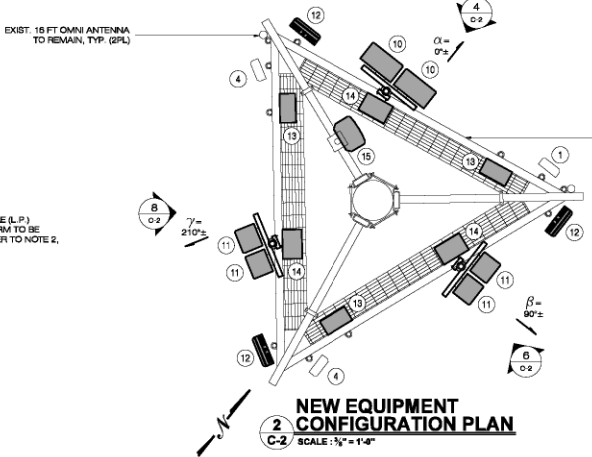
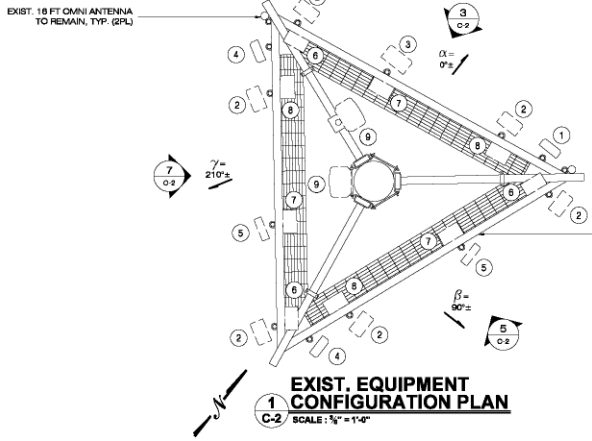
VZ FUZE ID: 16244638

SHEET TITLE:

COMPOUND PLAN, TOWER ELEVATION & NOTES

SHEET NUMBER:

C-1



- GENERAL ABBREVIATION LIST:
- ASB ABOVE BASE PLATE
 - AGL ABOVE GROUND LEVEL
 - AMSL ABOVE MEAN SEA LEVEL
 - AWIS ADVANCED WIRELESS SERVICE
 - H0G HOT DIP GALVANIZED
 - OVP OVER VOLTAGE PROTECTION
 - RRH REMOTE RADIO HEAD
 - V.I.F. VERIFY IN FIELD
 - W.P. WORK POINT
 - A.F.R. ABOVE FINISH ROOF

SCOPE OF WORK (ALL) SECTORS

- | | | | |
|--|---|---|--|
| 1 EXIST. ANTENNA (TO REMAIN)
MODEL: AMPHENOL BXA-80063-08P | 4 EXIST. ANTENNA (TO REMAIN)
MODEL: AMPHENOL BXA-80063-08P | 8 EXIST. RRH (TO BE REPLACED)
MODEL: UHF4 605 RRH-4030 | 11 NEW ANTENNA
MODEL: JMA M06PF1605-02
MOUNTED VIA NEW SIDE BY SIDE MOUNT BRACKETS (JMA 91900314-02) |
| 2 EXIST. ANTENNA (TO BE REPLACED)
MODEL: AMPHENOL W0003X19030 | 5 EXIST. ANTENNA (TO BE REPLACED)
MODEL: KATHREN 80010738V01 | 9 EXIST. 6 OVP (TO BE REPLACED)
MODEL: RAYCAP RRFDC3315-PF-48 (V.I.F.) | 14 NEW DUAL BAND RRH
MODEL: SAMSUNG B06B2A RRH-BR048 (RFV01U-D1A) |
| 3 EXIST. ANTENNA (TO BE REPLACED)
MODEL: CBS X7C-PRC-660-V | 7 EXIST. RRH (TO BE REPLACED)
MODEL: UHC B4 RRH-2x60-4R | 10 NEW ANTENNA
MODEL: JMA M06PF0640-02
MOUNTED VIA NEW DUAL MOUNT BRACKETS (PN JMA 91900314-02) | 15 NEW 120V
MODEL: RAYCAP RVZDC-6627-PF-48
MOUNTED TO EXIST. PIPE MOUNT. |

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) 943-1687
WWW.ALLPOINTSTECH.COM FAX: (860) 943-0836

CONSTRUCTION DOCUMENTS

NO.	DATE	REVISION
0	03/11/21	FOR REVIEW: JRM
1	05/26/22	FOR FILING: JRM
2	07/18/22	FOR FILING: JRM
3		
4		
5		
6		



DESIGN PROFESSIONALS OF RECORD
PROF. MICHAEL S. TRODDEN, P.E.
 COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
 ADDR: 567 VAUXHALL STREET EXT. SUITE 311
 WATERFORD, CT 06385
 OWNER: BLUE SKY TOWERS LLC
 ADDRESS: 57 EAST WASHINGTON STREET
 CHAGRIN FALLS, OH 44022

BETHEL CT
 SITE: 30 SPRING HILL LANE
 ADDRESS: BETHEL, CT 06001
 APT FILING NUMBER: CT141_11800
 DRAWN BY: CSH
 DATE: 03/11/21 CHECKED BY: JRM
 VZ PROJECT CODE: 2020190011
 VZ LOCATION CODE: 468263
 VZ FLUZE ID: 18244638

SHEET TITLE:
EXISTING & NEW EQUIPMENT MOUNTING CONFIGURATIONS

SHEET NUMBER:
C-2

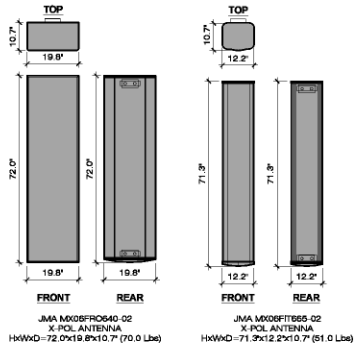
EQUIPMENT DATA									
EQUIPMENT SPECIFICATIONS									
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (ft)	WIDTH (ft)	DEPTH (ft)	WEIGHT (LBS)	
ALPHA	SAMSUNG MT6407-77A	1	0°	NEW	35.1'	18.1'	5.51'	87.1#	RRH
	700/850/1900/2100 JMA MX06FR0640-02	1	0°	NEW	72.0	19.8	10.7	70.0#	CDMA
	700/850/1900/2100 JMA MX06FR0640-02	1	0°	NEW	72.0	19.8	10.7	70.0#	CDMA
	CDMA AMPHENOL BXA-80083BCF	1	0°	ETR	71.1	11.2	5.0	14.9#	CDMA
BETA	SAMSUNG MT6407-77A	1	90°	NEW	35.1	18.1	5.51	87.1#	RRH
	700/850/1900/2100 JMA MX06FT1965-02	1	90°	NEW	71.3	12.2	10.7	51.0#	RRH
	700/850/1900/2100 JMA MX06FT1965-02	1	90°	NEW	71.3	12.2	10.7	51.0#	RRH
	CDMA AMPHENOL BXA-80083BCF	1	90°	ETR	72.6	11.2	4.6	22.0#	CDMA
GAMMA	SAMSUNG MT6407-77A	1	210°	NEW	35.1	18.1	5.51	87.1#	RRH
	700/850/1900/2100 JMA MX06FT1965-02	1	210°	NEW	71.3	12.2	10.7	51.0#	RRH
	700/850/1900/2100 JMA MX06FT1965-02	1	210°	NEW	71.3	12.2	10.7	51.0#	RRH
	CDMA AMPHENOL BXA-80083BCF	1	210°	ETR	72.6	11.2	4.6	22.0#	CDMA
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 RVZDC 6627-PF-48	1	-	NEW	29.5	16.5	12.6	32	

- ETR DENOTES EXIST TO REMAIN.
- WEIGHT WITHOUT MOUNTING BRACKET.
- ANTENNA DATA BASED ON LATEST VERIZON RFD'S.
- EQUIPMENT CONFIGURATION AS VIEWED FROM BEHIND.
- NOT TO EXCEED.

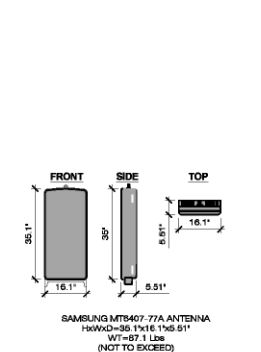
BILL OF MATERIALS				
QTY	EQUIPMENT DESCRIPTION	QUANTITY	LENGTH	COMMENTS
1	700/850/1900/2100	6		(JMA MX06FR0640-02 & MX06FT1965-02) MOUNTED TO PIPE MAST VIA NEW SIDE BY SIDE MOUNT BRACKETS (JMA 91900314-02)
2	LSUBS ANTENNA w/ INTEGRATED RRH	3		SAMSUNG MT6407-77A
3	12" JUMPER CABLE	36	15 FT	ROUTE FROM RRH TO ANTENNAS
4	ANTENNA LINK CABLES	6	15 M	ROUTE FROM UPPER OVP TO ANTENNAS
5	ANTENNA POWER CABLES	3	15 M	PROPRIETARY POWER CABLE FROM UPPER OVP TO ANTENNAS
6	AWS/PCS RRH	3		SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)
7	700/850 RRH	3		SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)
8	RRH CABLES	8	15 M	PROPRIETARY POWER & FIBER CABLES
9	UPPER 120VP	1		(RVZDC 6627-PF-48)
10	HYBRID CABLE	1	1404 FT	12K24 LOW INDUCTANCE HYBRID FEED-LINE CABLE ROUTED FROM LOWER OVP TO UPPER OVP

NOTES:

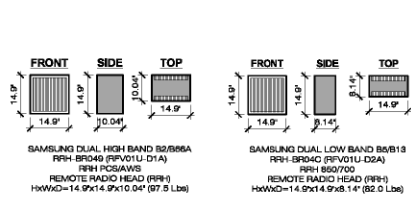
- INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
- INFORMATION IS BASED ON LATEST VERIZON RFD'S.
- * DENOTES EQUIPMENT DESIGNATED FOR LEASING ONLY (WHERE APPLICABLE).
- INSTALL ALARM BOMBS AT ALL OVP'S WHERE REQUIRED. COORDINATE W/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
- INSTALL UP CONVERTERS LOCATED AT BASE OVP'S WHERE REQUIRED. COORDINATE W/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
- COORDINATE ANTENNA CABLES REQUIREMENTS WITH VERIZON ENGINEERING.
- 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.



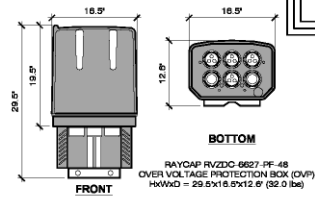
2 NEW ANTENNA DETAIL
B-1 SCALE: 1/2" = 1'-0"



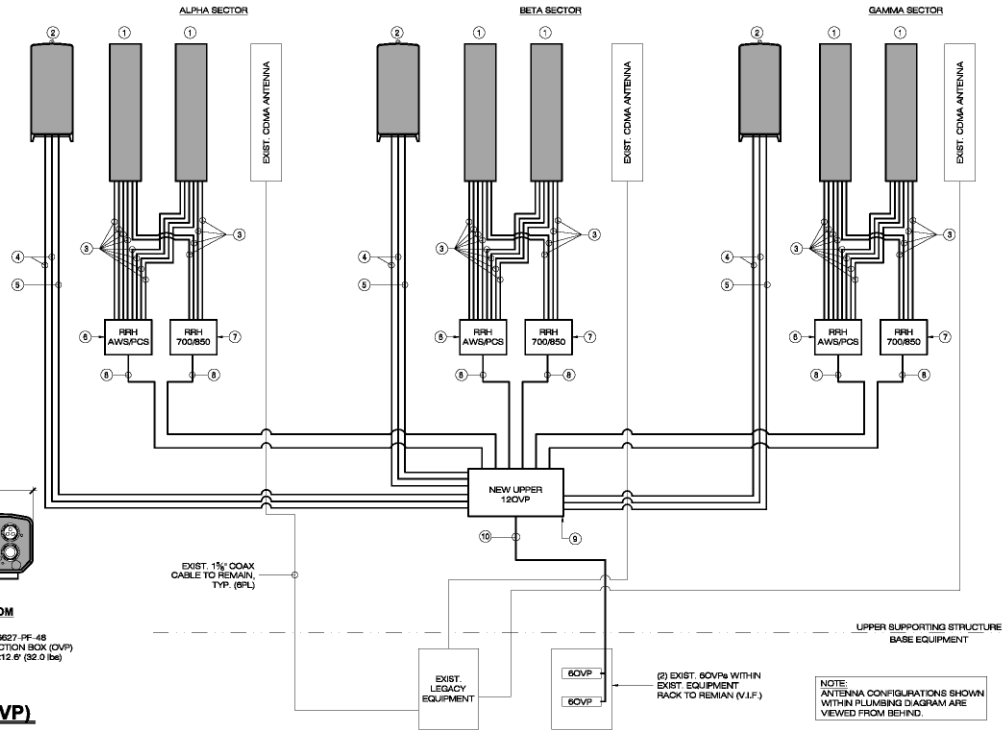
3 NEW ANTENNA DETAIL
B-1 SCALE: 1/2" = 1'-0"



4 RRH EQUIPMENT DETAILS
B-1 SCALE: 1/2" = 1'-0"



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



1 PLUMBING DIAGRAM
B-1 SCALE: 1/2" = 1'-0"

Cellco Partnership d/b/a

verizon

20 ALEXANDER DRIVE
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ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: BLUE SKY TOWERS LLC
ADDRESS: 57 EAST WASHINGTON STREET
CHAGRIN FALLS, OH 44022

BETHEL CT

SITE: 30 SPRING HILL LANE
ADDRESS: BETHEL, CT 06001

A/P FILING NUMBER: CT141_11860

DRAWN BY: CSH

DATE: 03/11/21 CHECKED BY: JRM

VZ PROJECT CODE: 2020199011

VZ LOCATION CODE: 468263

VZ FLUZE ID: 16244638

SHEET TITLE:

**RF BILL OF MATERIALS,
EQUIPMENT
SPECIFICATIONS
DETAILS**

SHEET NUMBER:

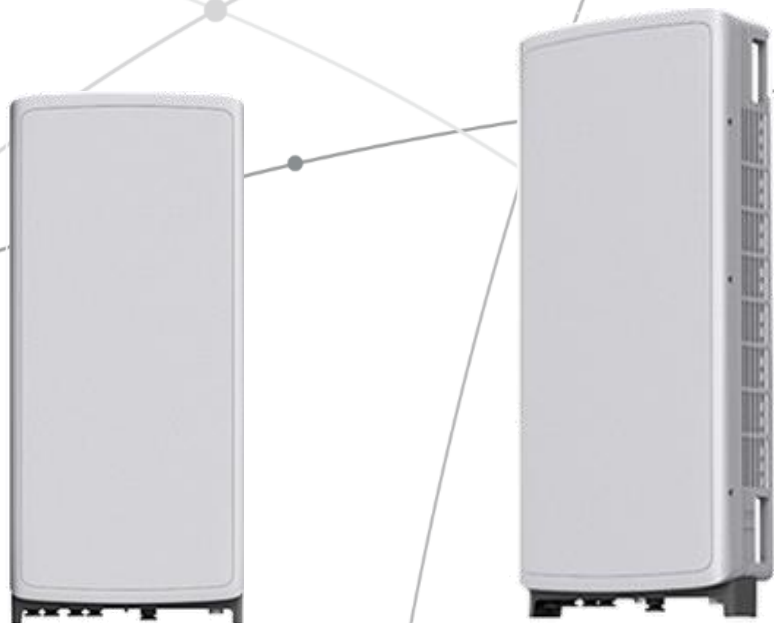
B-1

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



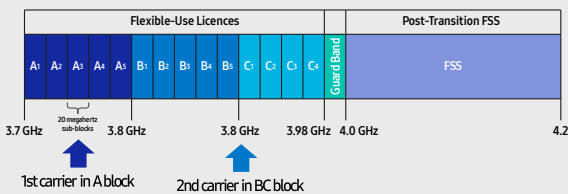
Points of Differentiation

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

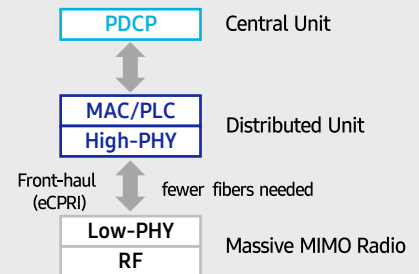
C-Band spectrum supported by Massive MIMO Radio



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.

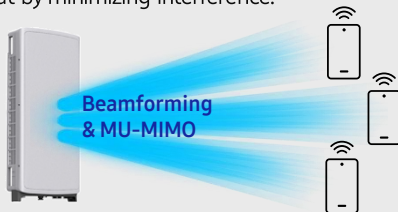


Enhanced Performance

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.

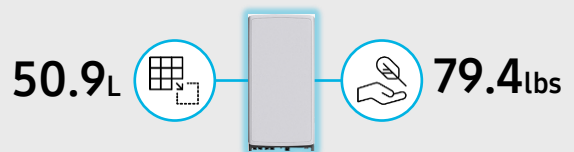
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



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

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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

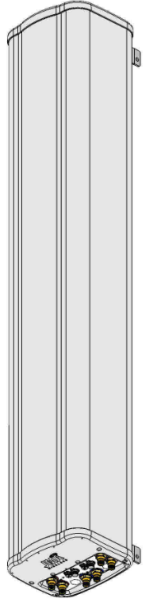
MX06FIT665-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 65°



X-Pol, Hex-Port 6 ft 65° Form In Tighter with Smart Bias T (2) 698–894 MHz & (4) 1695–2180 MHz

- Excellent Passive Intermodulation (PIM) performance reduces harmful interference
- Fully integrated (iRETs) with *independent* RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM Air interface technologies
- Integrated Smart BIAS-Ts reduces leasing costs
- Optimized width for reduced wind loading



Electrical Specification (Minimum/ Maximum)	Ports 1,2		Ports 3,4,5,6		
	698–798	824–894	1695–1880	1850–1990	1920–2180
Frequency bands, MHz	698–798	824–894	1695–1880	1850–1990	1920–2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.8	17.8	18.1	18.2
Horizontal beamwidth (HBW), degrees ¹	66.0	57.0	63.0	63.0	58.0
Front-to-back ratio, co-polar power @180°± 30°, dB	>22	>22.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>17.0	>15.6	>23	>18	>18
Sector power ratio, percent ¹	<5.0	<3.0	<4.6	<3.8	<5.0
Vertical beamwidth, (VBW), degrees ¹	13.5	12.0	6.0	5.5	5.4
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤ -17.0	≤ -16.0	≤ -17.0	≤ -16.0	≤ -16.0
Minimum cross-polar isolation, port-to-port, dB	25	25	25	25	25
Maximum VSWR/ return loss, dB	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0
Maximum passive Intermodulation (PIM), 2x 20W carrier, dBc	-153	-153	-153		
Maximum input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

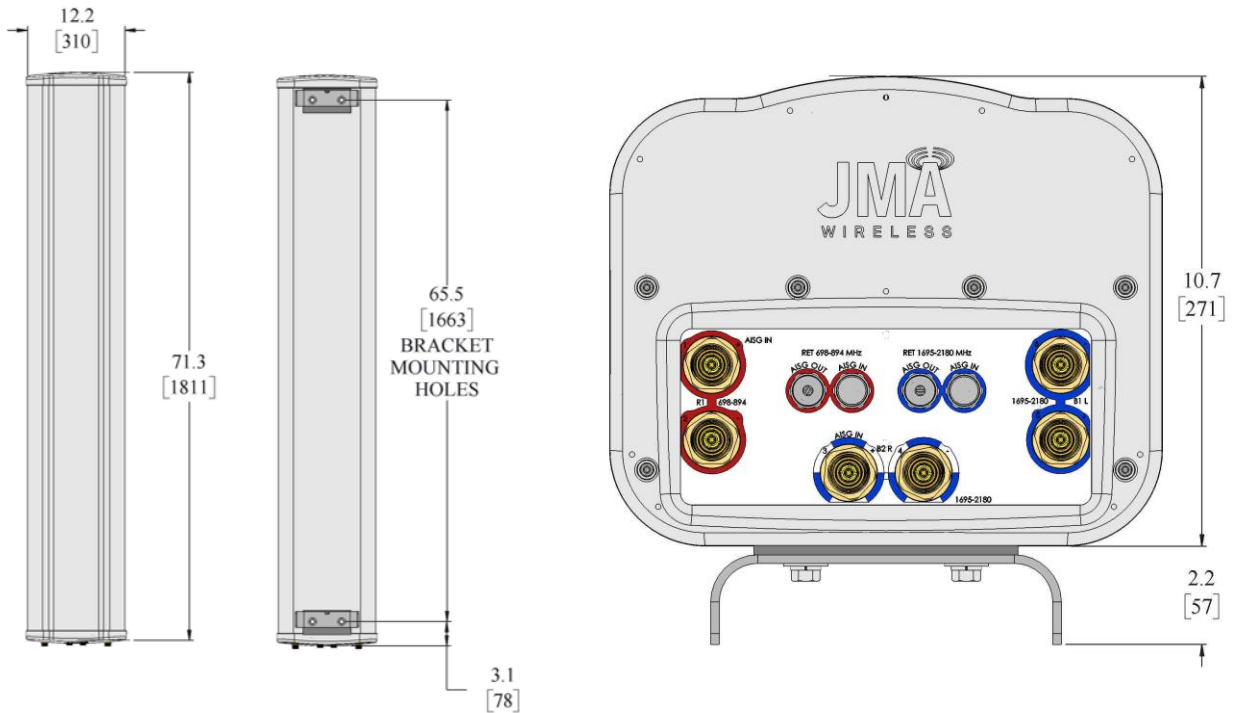
¹ Typical value over frequency and tilt

MX06FIT665-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 65°



Mechanical Specifications	
Dimensions height/ width/ depth, inches (mm)	71.3/ 12.2/ 10.7 (1811/ 310/ 271)
Shipping dimensions length/ width/ height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type & location	6 x 4.3-10 female, bottom
RF connector torque	96 in- lb (10.85 N-M or 8 ft-lbs)
Net antenna weight, lb (kg)	51 (23.18)
Shipping weight, lb (kg)	91 (41.36)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/ down tilt	-2° to 12°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral & rear wind loading @ 150 km/h, lbf (N)	87 (386), 68 (301), 109 (485)
Equivalent flat plate @100 mph and Cd=2, sq. ft.	1.42

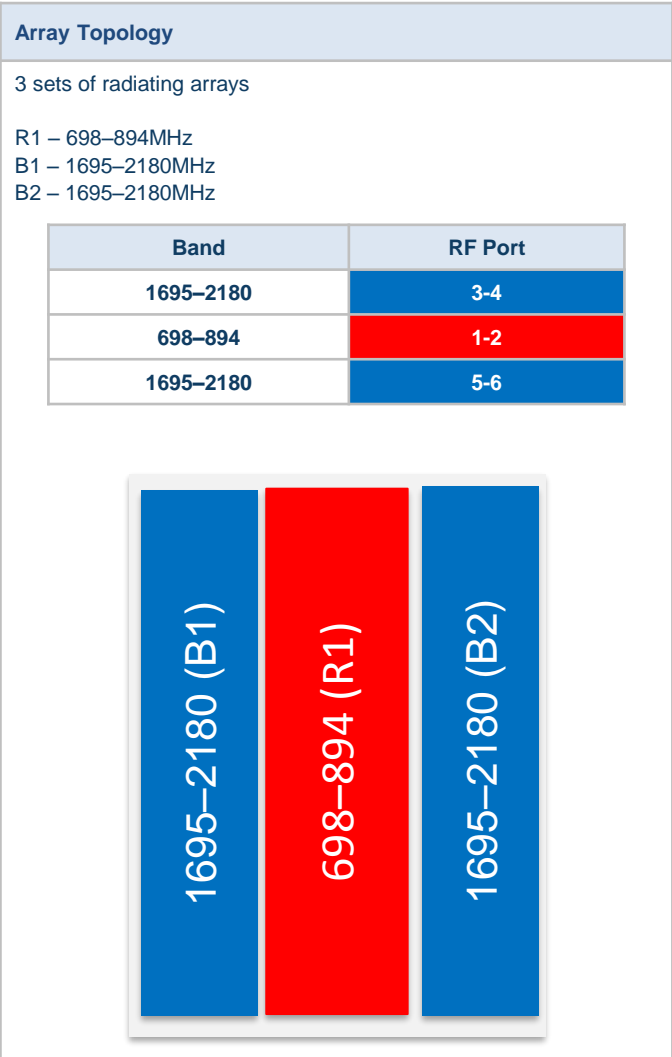
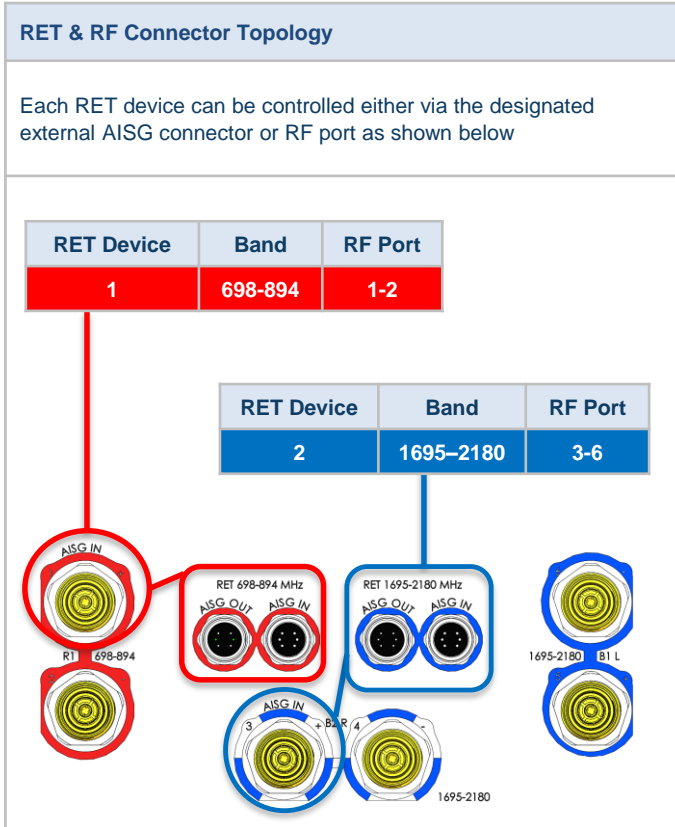


Ordering Information	
Antenna Model	Description
MX06FIT665-02	6F X- Pol HEX FIT 65° 2-14°/ 0-9° RET, 4.3-10 & SBT
Optional Accessories	
992100-CA030-SC	Optional AISG jumper cable, M/F, 3.0 meters
PCU-1000	Primary control unit, USB

MX06FIT665-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 65°

Remote Electrical Tilt (RET 1000) Information	
RET location	Integrated into antenna
RET interface connector type	8 Pin AISG connector per IEC 60130-9
RET interface connector quantity	2 pairs of AISG male/ female connectors
RET interface connector location	Bottom of the antenna
Total No. of internal RETs low bands	1
Total No. of internal RETs high bands	1
RET input operating voltage, vdc	10-30
RET max. power consumption, idle state, W	≤ 2.0
RET max. power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0/ 3GPP

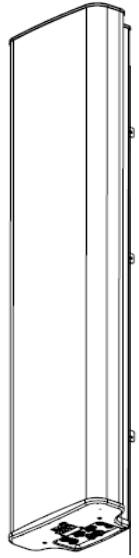


MX06FRO640-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 40°

X-Pol, Hex-Port 6 ft 40° Fast Roll-Off with Smart Bias-T (2) 698–894 MHz & (4) 1695–2180 MHz

- Fast Roll-Off (FRO™) Azimuth beam pattern improves Intra- and Inter-cell SINR
- Excellent Passive Intermodulation (PIM) performance reduces harmful interference
- Fully integrated (iRETs) with *independent* RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart BIAS-Ts reduces leasing costs



nwav
technology

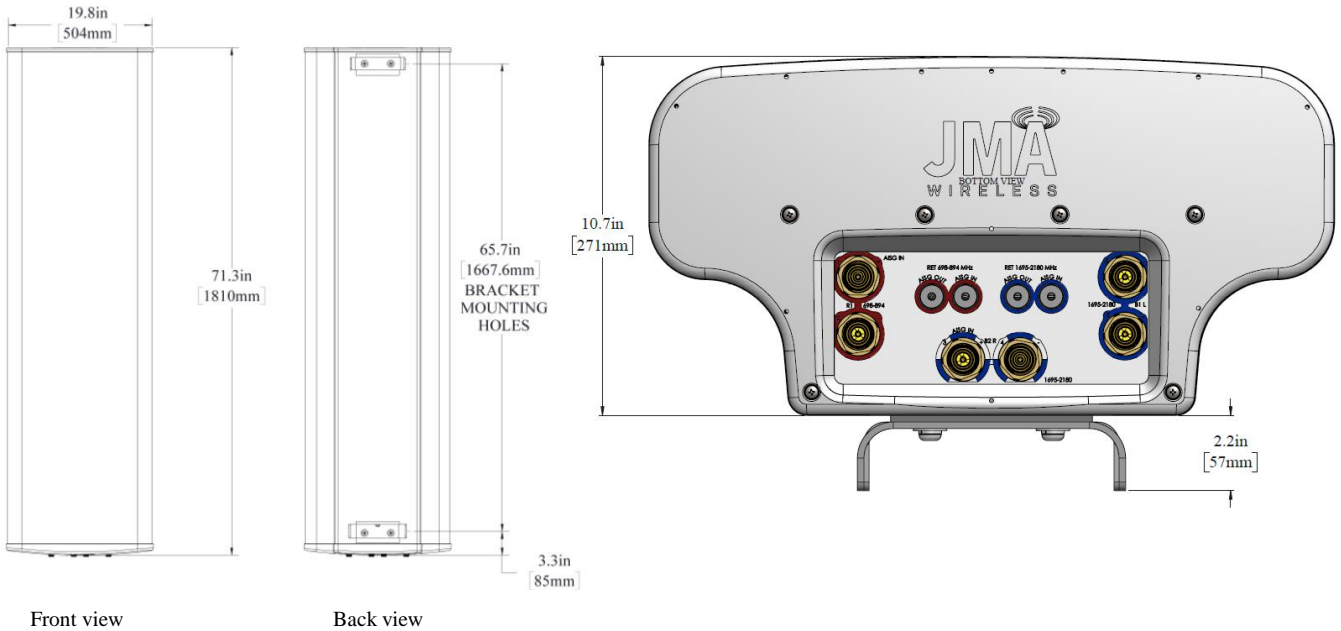
Electrical specification (minimum/ maximum)	Ports 1,2		Ports 3,4,5,6		
	698–798	824–894	1695–1880	1850–1990	1920–2180
Frequency bands, MHz	698–798	824–894	1695–1880	1850–1990	1920–2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	16.3	17.2	19.3	20.1	20.4
Horizontal beamwidth (HBW), degrees ¹	42°	37°	40°	39°	37°
Front-to-back ratio, co-polar power @180° ± 30°, dB	>25.0	>25.0	>28.0	>28.0	>28.0
X-Pol discrimination (CPR) at boresight, dB	>18.0	>15.0	>18	>18	>15
Sector power ratio, percent	<4.5	<3.5	<3.7	<3.8	<3.6
Vertical beamwidth, (VBW), degrees ¹	13.1°	11.8°	6.0°	5.7°	5.3°
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤ -15.0	≤ -15.0	≤ -16.0	≤ -16.0	≤ -16.0
Minimum cross polar isolation, port-to-port, dB	25	25	25	25	25
Maximum VSWR/ return loss, dB	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0	1.5/ -14.0
Maximum passive Intermodulation (PIM), 2x 20W carrier, dBc	-153	-153	-153		
Maximum input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

¹ Typical value over frequency and tilt

MX06FRO640-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 40°

Mechanical specifications	
Dimensions height/ width/ depth, inches (mm)	72/ 19.8/ 10.7 (1829/504/271)
Shipping dimensions length/ width/ height, inches (mm)	84/ 26/ 15 (2134/ 660/ 381)
No. of RF input ports, connector type & location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf-in (10.85 N-m or 8 lbf-ft)
Net antenna weight, lb (kg)	70 (31.8)
Shipping weight, lb (kg)	100 (45.4)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.2)
Range of mechanical up/ down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral & rear wind loading @ 150 km/h, lbf (N)	263 (1170), 112 (498), 263 (1170)
Equivalent flat plate @100 mph and Cd=2, sq ft	6.03



Ordering information	
Antenna model	Description
MX06FRO640-02	6F X- Pol HEX FRO 40° 2-14°/ 0-9° RET, 4.3-10 & SBT
Optional accessories	
992100-CA030-SC	Optional AISG jumper cable, M/F, 3.0 meters
PCU-1000	Primary control unit, USB

MX06FRO640-02

NWAV™ X-Pol Antenna | Hex-Port | 6 ft | 40°

Remote Electrical Tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET interface connector quantity	2 pairs of AISG male/ female connectors
RET interface connector location	Bottom of the antenna
Total No. of internal RETs low bands	1
Total No. of internal RETs high bands	1
RET input operating voltage, vdc	10–30
RET max. power consumption, idle state, W	≤ 2.0
RET max. power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0/ 3GPP

RET & RF connector topology

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

RET Device	Band	RF Port
1	698–894	1–2

RET Device	Band	RF Port
2	1695–2180	3–6

Array topology

3 sets of radiating arrays

R1: 698–894 MHz
B1: 1695–2180 MHz
B2: 1695–2180 MHz

Band	RF Port
1695–2180	3–4
698–894	1–2
1695–2180	5–6

ATTACHMENT 3

ATTACHMENT 4



AMERICAN TOWER®
CORPORATION

Post-Modification Structural Analysis Report

Structure : 124 ft Monopole
ATC Site Name : Spring Hill Lane CT,CT
ATC Site Number : 210744
Engineering Number : OAA767892_C4_06
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : BETHEL_CT
Carrier Site Number : 468263
Site Location : 38 Spring Hill Lane
Bethel, CT 06801
41.3622, -73.3966
County : Fairfield
Date : June 30, 2022
Max Usage : 99%
Result : Pass*

Prepared By:

Tanner Putman
Structural Engineer

Reviewed By:



Authorized by "EOR"
30 Jun 2022 08:34:51

COA : PEC.0001553



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Introduction

The purpose of this report is to summarize results of a post-modification structural analysis performed on the 124 ft Monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	Ramaker & Associates Inc Project #37840, dated June 26, 2018
Foundation Drawing	EEl Project # 13252, dated March 25, 2005
Geotechnical Report	JGI Project #05130G, dated March 3, 2005
Modifications	Ramaker & Associates, Inc, Project #37840, dated June 26, 2018 ATC Project #OAA767892_C6_03, dated April 5, 2022 (Pending)*
Mount Modification	Maser Consulting Job #20777354A, dated February 17, 2021

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	116 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 2
Crest Height (H):	354 ft
Crest Length (L):	2640 ft
Spectral Response:	$S_s = 0.22, S_i = 0.06$
Site Class:	D - Stiff Soil - Default

**Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, Annex S.

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report. If the pending modifications cited in the Supporting Documents table are not completed, the results of this analysis are no longer valid, and VERIZON WIRELESS should contact American Tower's Site Manager for further direction on how to proceed.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
129.4	1	Bird 101-68-10-0-03	Stand-Off	(4) 1 5/8" Coax	NEW ENGLAND RADIO CONSULTANTS, LLC
128.2	2	Generic Radio/ODU	Triangular Platform with Handrails	(2) 2" Carflex Non-Metallic Conduit (15) 1 5/8" Coax (1) 1" (25.4mm) Hybrid	AT&T MOBILITY
	1	Generic 2' HP Dish			
126.2	1	Raycap DC6-48-60-18			
	2	Raycap DC6-48-60-18			
123.1	5	Powerwave Allgon LGP21401			
122.9	2	CCI HPA-65R-BUU-H6			
	2	Kathrein Scala 80010965			
122.8	3	Powerwave Allgon 7770.00			
122.7	1	CCI HPA-65R-BUU-H8			
122.3	3	Ericsson RRUS-11			
	1	Kathrein Scala 80010966			
122.1	1	CCI TPA-65R-LCUUUU-H8			
122.0	3	Kathrein Scala 800-10964K			
	3	Quintel QS66512-2			
	3	Ericsson RRUS 32 B66			
	3	Ericsson RRUS 4478 B14			
119.6	6	Ericsson RRUS 32 B66			
115.6	3	Alcatel-Lucent TD-RRH8x20-25			
113.8	3	RFS APXVTM14-C-I20			
113.2	3	RFS APXVSP18-C-A20			
108.5	3	Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	Triangular Platform with Handrails	(24) 1 5/8" Coax	T-MOBILE
105.0	6	Alcatel-Lucent 1900 MHz 4X45 RRH			
	103.7	12	EMS DR65-19-00DPQ		
103.5		1	NAIS VIC-100		
	102.4	3	Ericsson Radio 4449 - B13&B5		
102.2		3	Ericsson Air6449 B41		
	100.3	3	Ericsson AIR32 B4A B2P		
102.0		3	Generic 6.7" x 10.7" TTA		
	92.0	3	RFS APXVAARR24_43-U-NA20		
72.0		3	Generic BTS		
	72.0	1	Telewave ANT150D6-9	Flush	(2) 1 5/8" Coax
2		Bird 101-68-10-0-03	Stand-Off	(1) 1 5/8" Coax	

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
No loading was considered as removed as part of this analysis.					

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
95.0	1	Commscope FE-16148-OVP-B12	Triangular Low Profile Platform with Modifications	(6) 1 5/8" Coax (1) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Samsung B5/B13 RRH-BR04C			
	4	JMA Wireless MX06FIT665-02			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung MT6407-77A			
	3	Amphenol Antel BXA-80063-6BF-EDIN-X			
	2	JMA Wireless MX06FRO640-02			

¹Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines inside the pole shaft.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	20%	Pass
Shaft	99%	Pass
Base Plate	29%	Pass
Reinforcement	94%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3798.5	96%
Shear (Kips)	41.2	20%
Axial (Kips)	50.5	11%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
128.2	Generic 2' HP Dish	AT&T MOBILITY	0.000	0.000
95.0	Commscope FE-16148-OVP-B12	VERIZON WIRELESS	0.788	1.130
	JMA Wireless MX06FRO640-02			
	Samsung B2/B66A RRH-BR049			
	Samsung MT6407-77A			
	Amphenol Antel BXA-80063-6BF-EDIN-X			
	JMA Wireless MX06FIT665-02			
	Samsung B5/B13 RRH-BR04C			

*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H

Standard Conditions

All engineering services performed by A.T. Engineering Services LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Services LLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Services LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively “American Tower”) are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

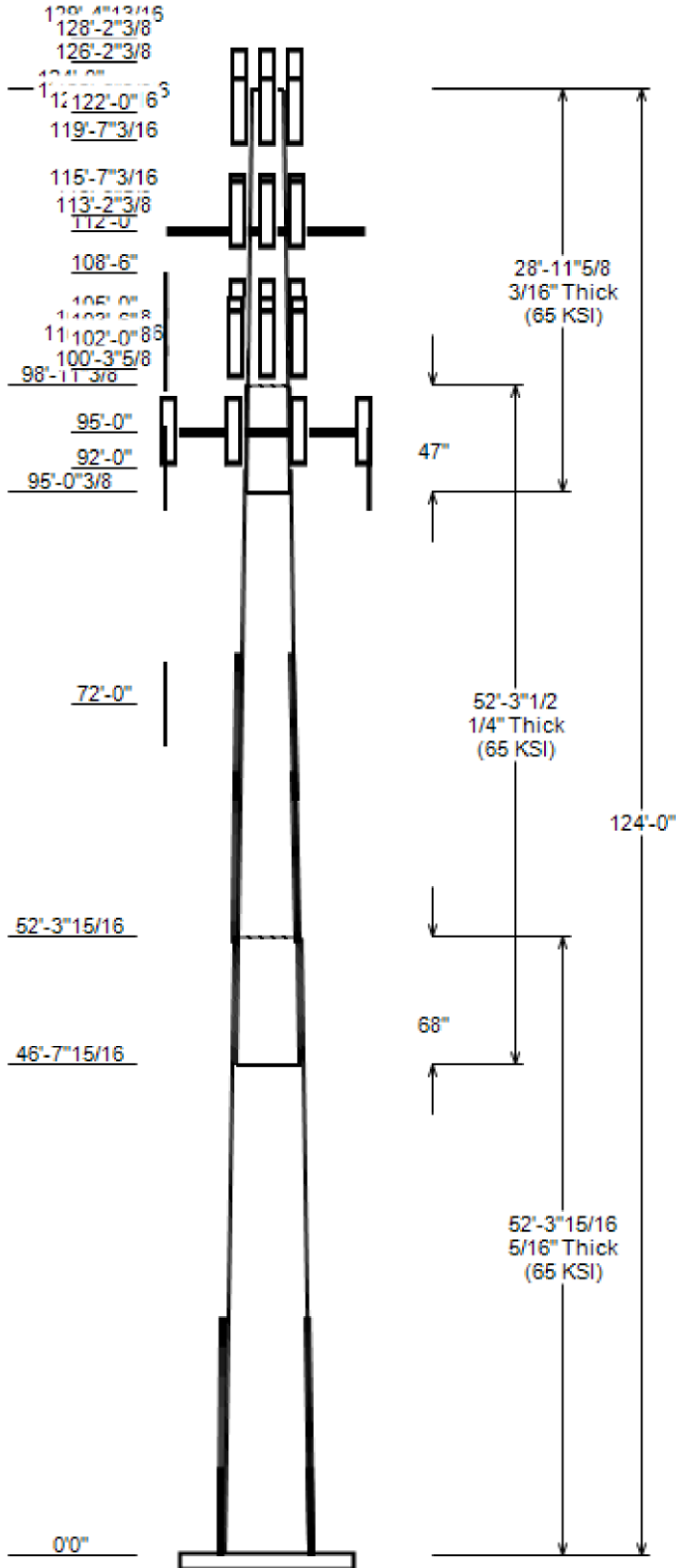
Unless explicitly agreed by both the client and A.T. Engineering Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

JOB INFORMATION

Asset : 210744, Spring Hill Lane CT
 Client : VERIZON WIRELESS
 Code : ANSI/TIA-222-H

Height : 124 ft
 Base Width : 55
 Shape : 18 Sides



SITE PARAMETERS

Nominal Wind: 113.06 mph wind with no ic **Topo Category:** 0
 Ice Wind: 48.73 mph wind with 0.850" **Topo Method:** Method 2
 Base Elev (ft): 1.00 **Taper :** 0.30500 (in/ft) **Topo Feature:** Ridge
Structure Class: II **Exposure :** B **S_s :** 0.222 **S₁ :** 0.056

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in) Across Flats		Thick Joint (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
		Top	Bottom					
1	52.330	39.02	55.00	0.312		0.000	18 Sides	65
2	52.290	25.28	41.25	0.250	Slip Joint	68.040	18 Sides	65
3	28.970	18.00	26.85	0.188	Slip Joint	47.040	18 Sides	65

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
129.4	129.4	1	Bird 101-68-10-0-03
128.2	128.2	2	Generic Radio/ODU
128.2	128.2	1	Generic 2' HP Dish
126.2	126.2	1	Raycap DC6-48-60-18
126.2	126.2	2	Raycap DC6-48-60-18
123.1	123.1	5	Powerwave Allgon LGP21401
122.9	122.9	2	CCI HPA-65R-BUU-H6
122.9	122.9	2	Kathrein Scala 80010965
122.8	122.8	3	Powerwave Allgon 7770.00
122.7	122.7	1	CCI HPA-65R-BUU-H8
122.3	122.3	3	Ericsson RRUS-11
122.3	122.3	1	Kathrein Scala 80010966
122.1	122.1	1	CCI TPA-65R-LCUUUU-H8
122.0	124.1	3	Ericsson RRUS 4478 B14
122.0	123.8	3	Ericsson RRUS 32 B66
122.0	122.2	3	Quintel QS66512-2
122.0	122.0	3	Kathrein Scala 800-10964K
122.0	122.0	1	Flat Platform with Round Handr
119.6	121.4	6	Ericsson RRUS 32 B66
115.6	115.6	3	Alcatel-Lucent TD-RRH8x20-25
113.8	113.8	3	RFS APXVTM14-C-I20
113.2	113.2	3	RFS APXVSPP18-C-A20
112.0	112.0	1	Generic Flat Low Profile Platf
108.5	108.5	3	Alcatel-Lucent 800 MHz 2X50W R
105.0	105.0	1	NAiS VIC-100
105.0	105.0	6	Alcatel-Lucent 1900 MHz 4X45 R
105.0	105.0	12	EMS DR65-19-00DPQ
103.7	103.7	3	Ericsson Radio 4449 - B13&B5
103.5	103.5	3	Ericsson Air6449 B41
102.4	102.4	3	Generic 6.7" x 10.7" TTA
102.4	102.4	3	Ericsson AIR32 B4A B2P
102.2	102.2	3	RFS APXVAARR24_43-U-NA20
102.0	102.0	1	Telewave ANT150D6-9
102.0	102.0	1	Flat Platform with Round Handr
100.3	100.3	3	Generic BTS
95.0	95.0	1	Commscope FE-16148-OVP-B12
95.0	95.0	3	Samsung B5/B13 RRH-BR04C
95.0	95.0	3	Samsung B2/B66A RRH-BR049
95.0	95.0	3	Samsung MT6407-77A
95.0	95.0	3	Amphenol Antel BXA-80063-6BF-E
95.0	95.0	1	Generic Mount Reinforcement
95.0	95.0	4	JMA Wireless MX06FIT665-02
95.0	95.0	2	JMA Wireless MX06FRO640-02
95.0	95.0	1	Generic Flat Low Profile Platf

JOB INFORMATION

Asset : 210744, Spring Hill Lane CT
 Client : VERIZON WIRELESS
 Code : ANSI/TIA-222-H

Height : 124 ft
 Base Width : 55
 Shape : 18 Sides

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
92.0	92.0	2	Bird 101-68-10-0-03
72.0	72.0	1	Telewave ANT150D6-9

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	129.0	1 5/8" Coax	No
0.0	129.0	1 5/8" Coax	No
0.0	126.0	2" Carflex Non-Metallic Conduit	No
0.0	122.0	1" (25.4mm) Hybrid	No
0.0	122.0	1 5/8" Coax	No
0.0	122.0	1 5/8" Coax	No
0.0	113.0	7/8" (0.88"- 22.2mm) Fiber	No
0.0	113.0	1 1/4" Hybriflex Cable	No
0.0	108.0	1 5/8" Coax	No
0.0	105.0	1 5/8" Coax	No
0.0	98.0	1 5/8" Coax	No
0.0	95.0	1 5/8" Hybriflex	No
0.0	95.0	1 5/8" Coax	No
60.0	80.0	1.25" Thick Flat Plate	Yes
60.0	80.0	1.25" Thick Flat Plate	Yes
60.0	80.0	1.25" Thick Flat Plate	Yes
49.0	69.0	1.25" Thick Flat Plate	Yes
49.0	69.0	1.25" Thick Flat Plate	Yes
49.0	69.0	1.25" Thick Flat Plate	Yes
0.0	64.0	1 5/8" Coax	No
0.0	26.0	#20 w/ Angle Brackets	Yes
0.0	26.0	#20 w/ Angle Brackets	Yes
0.0	26.0	#20 w/ Angle Brackets	Yes
0.0	26.0	#20 w/ Angle Brackets	Yes
0.0	26.0	#20 w/ Angle Brackets	Yes
0.0	26.0	#20 w/ Angle Brackets	Yes
0.0	26.0	#20 w/ Angle Brackets	Yes
0.0	26.0	#20 w/ Angle Brackets	Yes

LOAD CASES

1.2D + 1.0W	113.06 mph wind with no ice
0.9D + 1.0W	113.06 mph wind with no ice
1.2D + 1.0Di + 1.0Wi	48.73 mph wind with 0.850" radial
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W	3798.54	41.24	50.47
0.9D + 1.0W	3769.14	41.23	37.85
1.2D + 1.0Di + 1.0Wi	987.70	10.69	67.53
1.2D + 1.0Ev + 1.0Eh	141.73	1.39	49.34
0.9D - 1.0Ev + 1.0Eh	140.32	1.39	33.72
1.0D + 1.0W	953.14	10.39	42.09

DISH DEFLECTIONS

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	124.00	17.565	1.452

ASSET: 210744, Spring Hill Lane CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
ENG NO: OAA767892_C4_06

ANALYSIS PARAMETERS

Location:	Fairfield County,CT	Height:	124 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	55.00 in
Manufacturer:	EEI	Top Diameter:	18.00 in
K_d (non-service):	0.95	Taper:	0.3050 in/ft
K_θ:	1.00	Rotation:	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed w/o Ice:	113 mph
Risk Category:	II	Design Wind Speed w/Ice:	49 mph
Topo Factor Procedure:	Method 2	Operational Wind Speed:	60 mph
		Design Ice Thickness:	0.85 in
		HMSL:	0.00 ft
Crest Height(H):	354 ft	Distance from Apex (x):	0 ft
Crest Length(L):	2640 ft	Upwind/Downwind:	Upwind
Feature:	Ridge		

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	1.81
T_L (sec):	6	P:	1
S_s:	0.222	S₁:	0.056
F_a:	1.600	F_v:	2.400
S_{ds}:	0.237	S_{d1}:	0.090
		C_s:	0.033
		C_s Max:	0.033
		C_s Min:	0.030

LOAD CASES

1.2D + 1.0W	113.06 mph wind with no ice
0.9D + 1.0W	113.06 mph wind with no ice
1.2D + 1.0Di + 1.0Wi	48.73 mph wind with 0.850" radial ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

ASSET: 210744, Spring Hill Lane CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: OAA767892_C4_06

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	52.33	0.3125	65		0.00	8,247	55.00	0.000	54.24	20,495.5	29.62	176.00	39.02	52.33	38.39	7,265.3	20.60	124.85	0.3054
2-18	52.29	0.2500	65	Slip	68.04	4,661	41.25	46.660	32.53	6,908.4	27.68	164.99	25.28	98.95	19.86	1,571.4	16.42	101.11	0.3054
3-18	28.97	0.1875	65	Slip	47.04	1,305	26.85	95.030	15.87	1,425.0	23.84	143.19	18.00	124.00	10.60	425.0	15.52	96.00	0.3054

Shaft Weight 14,213

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice			Ice		
					Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor
129.40	Bird 101-68-10-0-03	1	1.00	0.000	70.00	5.530	1.00	159.41	9.226	1.00
128.20	Generic 2' HP Dish	1	1.00	0.000	90.00	3.960	1.00	144.56	4.729	1.00
128.20	Generic Radio/ODU	2	0.75	0.000	30.00	1.600	0.50	63.56	2.152	0.50
126.20	Raycap DC6-48-60-18	2	0.75	0.000	30.00	3.813	1.00	85.61	4.672	1.00
126.20	Raycap DC6-48-60-18	1	0.75	0.000	30.00	3.813	1.00	85.61	4.672	1.00
123.10	Powerwave Allgon LGP21401	5	0.75	0.000	14.10	1.104	0.50	30.47	1.572	0.50
122.90	CCI HPA-65R-BUU-H6	2	0.75	0.000	51.00	9.658	0.77	194.92	11.476	0.77
122.90	Kathrein Scala 80010965	2	0.75	0.000	97.60	13.814	0.72	272.49	15.815	0.72
122.80	Powerwave Allgon 7770.00	3	0.75	0.000	35.00	5.508	0.65	109.57	6.902	0.65
122.70	CCI HPA-65R-BUU-H8	1	0.75	0.000	68.00	12.976	1.00	236.53	15.324	1.00
122.30	Ericsson RRUS-11	3	0.75	0.000	55.00	3.792	0.61	113.87	4.634	0.61
122.30	Kathrein Scala 80010966	1	0.75	0.000	114.60	17.363	1.00	325.18	19.782	1.00
122.10	CCI TPA-65R-LCUUUU-H8	1	0.75	0.000	81.60	13.298	1.00	263.10	15.746	1.00
122.00	Kathrein Scala 800-10964K	3	0.75	0.000	94.80	9.997	0.62	233.18	11.544	0.62
122.00	Quintel QS66512-2	3	0.75	0.200	111.00	8.133	0.74	241.61	9.960	0.74
122.00	Ericsson RRUS 32 B66	3	0.75	1.800	53.00	2.743	0.50	101.21	3.510	0.50
122.00	Flat Platform with Round Handr	1	1.00	0.000	2500.00	34.800	1.00	3641.50	50.690	1.00
122.00	Ericsson RRUS 4478 B14	3	0.75	2.100	59.90	1.842	0.50	96.14	2.430	0.50
119.60	Ericsson RRUS 32 B66	6	0.75	1.800	53.00	2.743	0.50	101.12	3.508	0.50
115.60	Alcatel-Lucent TD-RRH8x20-25	3	0.80	0.000	66.00	3.704	0.60	120.45	4.537	0.60
113.80	RFS APXV/TM14-C-I20	3	0.80	0.000	52.90	6.342	0.66	142.79	7.764	0.66
113.20	RFS APXV/SPP18-C-A20	3	0.80	0.000	57.00	8.024	0.69	169.57	9.844	0.69
112.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2403.05	38.548	1.00
108.50	Alcatel-Lucent 800 MHz 2X50W R	3	0.80	0.000	64.00	2.058	0.50	114.11	2.681	0.50
105.00	EMS DR65-19-00DPQ	12	0.75	0.000	32.00	8.133	0.63	134.96	8.952	0.63
105.00	Alcatel-Lucent 1900 MHz 4X45 R	6	0.80	0.000	60.00	2.322	0.50	112.34	3.024	0.50
105.00	NAIS VIC-100	1	1.00	0.000	0.70	0.080	1.00	3.87	0.191	1.00
103.70	Ericsson Radio 4449 - B13&B5	3	0.75	0.000	70.00	1.650	0.50	106.57	2.200	0.50
103.50	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	192.44	6.712	0.63
102.40	Ericsson AIR32 B4A B2P	3	0.75	0.000	105.80	6.523	0.71	209.41	7.947	0.71
102.40	Generic 6.7" x 10.7" TTA	3	0.75	0.000	9.90	0.597	0.50	15.66	0.943	0.50
102.20	RFS APXVAARR24 43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	382.54	22.649	0.63
102.00	Telewave ANT150D6-9	1	1.00	0.000	26.00	6.120	1.00	126.63	10.915	1.00
102.00	Flat Platform with Round Handr	1	1.00	0.000	2500.00	34.800	1.00	3628.97	50.515	1.00
100.30	Generic BTS	3	0.75	0.000	20.00	1.800	0.50	51.66	2.383	0.50
95.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2397.29	38.412	1.00
95.00	JMA Wireless MX06FRO640-02	2	0.80	0.000	70.00	12.380	0.75	252.82	14.188	0.75
95.00	JMA Wireless MX06FIT665-02	4	0.80	0.000	45.00	8.147	0.76	180.30	9.926	0.76
95.00	Generic Mount Reinforcement	1	1.00	0.000	200.00	7.500	1.00	324.81	12.329	1.00
95.00	Amphenol Antel BXA-80063-6BF-E	3	0.80	0.000	19.20	7.262	0.66	112.19	8.978	0.66
95.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	147.33	5.689	0.61
95.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	125.54	2.457	0.50
95.00	Commscope FE-16148-OVP-B12	1	0.80	0.000	15.20	1.867	0.50	51.80	2.447	0.50
95.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	107.19	2.457	0.50
92.00	Bird 101-68-10-0-03	2	1.00	0.000	70.00	5.530	1.00	157.71	9.156	1.00
72.00	Telewave ANT150D6-9	1	1.00	0.000	26.00	6.120	1.00	124.22	10.800	1.00

Totals Num Loadings: 46 120 15,506.90 28,423.67

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : 0.00_

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax/ Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
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ASSET: 210744, Spring Hill Lane CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: OAA767892_C4_06

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	129.00	3	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	NEW ENGLAND R
0.00	129.00	1	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	NEW ENGLAND R
0.00	126.00	2	2" Carflex Non-Metall	2.36	0.68	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	122.00	9	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	122.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	122.00	1	1" (25.4mm) Hybrid	1	0.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	113.00	3	1 1/4" Hybriflex Cabl	1.54	1	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	113.00	1	7/8" (0.88"- 22.2mm)	0.88	0.7	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	108.00	3	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	NEW ENGLAND R
0.00	105.00	24	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	T-MOBILE
0.00	98.00	2	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	NEW ENGLAND R
0.00	95.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIREL
0.00	95.00	1	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIREL
60.00	80.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	60	0	Y	
60.00	80.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	300	0	Y	
60.00	80.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	180	0	Y	
49.00	69.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	240	0	Y	
49.00	69.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	0	0	Y	
49.00	69.00	1	1.25" Thick Flat Plat	1.25	0	Y	1	0	0	120	0	Y	
0.00	64.00	1	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	NEW ENGLAND R
0.00	26.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	135	0	Y	
0.00	26.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	225	0	Y	
0.00	26.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	180	0	Y	
0.00	26.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	90	0	Y	
0.00	26.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	45	0	Y	
0.00	26.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	270	0	Y	
0.00	26.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	0	0	Y	
0.00	26.00	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	315	0	Y	

ADDITIONAL STEEL

Intermediate Connectors

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	7.50	4	PL PL 1.25" x 6"	65		5/8" Hollo Bolt	0.00	0.00	5/8" Hollo Bolt	N
0.00	20.08	8	SOL #20 All Thread Bar	43	8.28	6" T Bracket	30.00	3.13	5/8" A36 U-Bolt	N
51.75	66.25	3	PL PL 6.5 x 1.25	65		AJAX M20 Class 8.8	30.00	3.00	AJAX M20 Class 8.8	N
63.75	76.25	3	PL PL 6.5 x 1.25	50	0.00	5/8" Hollo Bolt	18.00	3.00	5/8" Hollo Bolt	N

SEGMENT PROPERTIES

(Max Len: 5.ft)

Additional Reinforcing

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)	Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.3125	55.000	54.241	20,495.50	29.62	176.00	66.6	734.0	0.0	0.0	69.280	41,244.10	0.0
5.00		0.3125	53.473	52.726	18,825.90	28.76	171.11	67.6	693.4	0.0	910.0	69.280	39,431.90	1,178.0
7.50	Reinf. Top	0.3125	52.709	51.969	18,026.30	28.33	168.67	68.1	673.6	0.0	445.3	69.280	38,541.30	589.0
10.00		0.3125	51.946	51.212	17,249.60	27.90	166.23	68.6	654.1	0.0	438.9	39.280	25,022.60	334.0
15.00		0.3125	50.418	49.697	15,763.80	27.04	161.34	69.6	615.8	0.0	858.4	39.280	23,947.60	668.0
20.00		0.3125	48.891	48.182	14,365.90	26.18	156.45	70.6	578.7	0.0	832.7	39.280	22,896.20	668.0
20.08	Reinf. Top	0.3125	48.867	48.158	14,344.20	26.16	156.37	70.6	578.2	0.0	13.1	39.280	22,879.60	10.7
25.00		0.3125	47.364	46.668	13,053.10	25.31	151.56	71.6	542.8	0.0	793.8			
30.00		0.3125	45.837	45.153	11,822.90	24.45	146.68	72.6	508.0	0.0	781.1			
35.00		0.3125	44.310	43.638	10,672.50	23.59	141.79	73.7	474.4	0.0	755.3			
40.00		0.3125	42.782	42.123	9,599.30	22.73	136.90	74.7	441.9	0.0	729.6			
45.00		0.3125	41.255	40.609	8,600.50	21.87	132.02	75.7	410.6	0.0	703.8			
46.66	Bot - Section 2	0.3125	40.748	40.106	8,284.90	21.58	130.39	76	400.5	0.0	228.0			
50.00		0.3125	39.728	39.094	7,673.50	21.01	127.13	76.7	380.4	0.0	815.2			
51.75	Reinf Bottom	0.3125	39.193	38.564	7,365.60	20.70	125.42	77	370.1	0.0	418.9			
52.33	Top - Section 1	0.2500	39.516	31.157	6,069.40	26.46	158.07	70.3	302.5	0.0	137.6	24.390	5,111.20	48.1
55.00		0.2500	38.701	30.510	5,699.00	25.89	154.80	71	290.0	0.0	280.1	24.390	4,910.50	221.4
60.00		0.2500	37.174	29.298	5,046.60	24.81	148.69	72.2	267.4	0.0	508.8	24.390	4,545.60	414.6
63.75	Reinf Bottom	0.2500	36.028	28.389	4,591.30	24.00	144.11	73.2	251.0	0.0	368.1	24.390	4,281.20	311.0
65.00		0.2500	35.646	28.086	4,445.90	23.73	142.59	73.5	245.7	0.0	120.1	48.780	8,389.80	207.3
66.25	Reinf. Top	0.2500	35.265	27.783	4,303.60	23.46	141.06	73.8	240.4	0.0	118.8	48.780	8,218.90	207.3
70.00		0.2500	34.119	26.874	3,894.90	22.65	136.48	74.8	224.8	0.0	348.7	24.390	3,858.40	311.0
72.00		0.2500	33.508	26.390	3,688.00	22.22	134.03	75.3	216.8	0.0	181.2	24.390	3,727.80	165.8
75.00		0.2500	32.592	25.662	3,391.40	21.58	130.37	76	205.0	0.0	265.7	24.390	3,536.20	248.8
76.25	Reinf. Top	0.2500	32.210	25.360	3,272.80	21.31	128.84	76.3	200.1	0.0	108.5	24.390	3,457.80	103.7
80.00		0.2500	31.065	24.451	2,933.30	20.50	124.26	77.3	186.0	0.0	317.8			
85.00		0.2500	29.538	23.239	2,518.50	19.42	118.15	78.6	167.9	0.0	405.7			
90.00		0.2500	28.010	22.027	2,144.70	18.35	112.04	79.8	150.8	0.0	385.1			
92.00		0.2500	27.400	21.542	2,006.20	17.91	109.60	80.3	144.2	0.0	148.3			
95.00		0.2500	26.483	20.815	1,809.80	17.27	105.93	81.1	134.6	0.0	216.2			
95.03	Bot - Section 3	0.2500	26.474	20.808	1,807.90	17.26	105.90	81.1	134.5	0.0	2.1			
98.95	Top - Section 2	0.1875	25.652	15.154	1,241.50	22.71	136.81	74.7	95.3	0.0	478.1			
100.00		0.1875	25.331	14.963	1,195.20	22.41	135.10	75	92.9	0.0	53.8			
100.30		0.1875	25.239	14.908	1,182.10	22.32	134.61	75.1	92.3	0.0	15.2			
102.00		0.1875	24.720	14.599	1,110.10	21.84	131.84	75.7	88.5	0.0	85.3			
102.20		0.1875	24.659	14.563	1,101.90	21.78	131.51	75.8	88.0	0.0	9.9			
102.40		0.1875	24.598	14.527	1,093.60	21.72	131.19	75.9	87.6	0.0	9.9			
103.50		0.1875	24.262	14.327	1,049.10	21.41	129.40	76.2	85.2	0.0	54.0			
103.70		0.1875	24.201	14.290	1,041.10	21.35	129.07	76.3	84.7	0.0	9.7			
105.00		0.1875	23.804	14.054	990.30	20.97	126.95	76.7	81.9	0.0	62.7			
108.50		0.1875	22.735	13.418	861.80	19.97	121.25	77.9	74.7	0.0	163.6			
110.00		0.1875	22.277	13.145	810.40	19.54	118.81	78.4	71.6	0.0	67.8			
112.00		0.1875	21.666	12.782	745.00	18.96	115.55	79.1	67.7	0.0	88.2			
113.20		0.1875	21.299	12.564	707.50	18.62	113.60	79.5	65.4	0.0	51.7			
113.80		0.1875	21.116	12.455	689.20	18.45	112.62	79.7	64.3	0.0	25.5			
115.00		0.1875	20.749	12.236	653.60	18.10	110.66	80.1	62.0	0.0	50.4			
115.60		0.1875	20.566	12.127	636.30	17.93	109.69	80.3	60.9	0.0	24.9			
119.60		0.1875	19.344	11.400	528.60	16.78	103.17	81.7	53.8	0.0	160.1			
120.00		0.1875	19.222	11.328	518.50	16.67	102.52	81.8	53.1	0.0	15.5			
122.00		0.1875	18.611	10.964	470.20	16.09	99.26	82.5	49.8	0.0	75.9			
122.10		0.1875	18.581	10.946	467.90	16.06	99.10	82.5	49.6	0.0	3.7			
122.30		0.1875	18.520	10.910	463.20	16.01	98.77	82.6	49.3	0.0	7.4			
122.70		0.1875	18.398	10.837	454.00	15.89	98.12	82.6	48.6	0.0	14.8			
122.80		0.1875	18.367	10.819	451.70	15.86	97.96	82.6	48.4	0.0	3.7			
122.90		0.1875	18.336	10.800	449.50	15.83	97.79	82.6	48.3	0.0	3.7			
123.10		0.1875	18.275	10.764	444.90	15.78	97.47	82.6	48.0	0.0	7.3			
124.00		0.1875	18.000	10.601	425.00	15.52	96.00	82.6	46.5	0.0	32.7			

Totals: 14,212.4 5,686.7

Load Case: 1.2D + 1.0W	113.06 mph wind with no ice	24 Iterations
Gust Response Factor:	1.10	
Dead load Factor:	1.20	
Wind Load Factor:	1.00	

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.47	-41.24	0.00	-3,798.5	0.00	3,798.54	3,249.22	951.93	4,701.78	3,663.92	0	0	0.353
5.00	-47.39	-40.59	0.00	-3,592.3	0.00	3,592.34	3,206.58	925.35	4,442.87	3,514.28	0.05	-0.09	0.339
7.50	-45.85	-40.16	0.00	-3,490.9	0.00	3,490.86	3,184.22	912.06	4,316.16	3,439.36	0.11	-0.13	0.332
7.50	-45.85	-40.16	0.00	-3,490.9	0.00	3,490.86	3,184.22	912.06	4,316.16	3,439.36	0.11	-0.13	0.430
10.00	-44.60	-39.53	0.00	-3,390.5	0.00	3,390.46	3,161.17	898.77	4,191.29	3,364.41	0.19	-0.17	0.421
15.00	-42.16	-38.69	0.00	-3,192.8	0.00	3,192.82	3,113.00	872.18	3,947.04	3,214.56	0.43	-0.28	0.404
20.00	-39.79	-38.26	0.00	-2,999.4	0.00	2,999.36	3,062.07	845.60	3,710.12	3,064.99	0.79	-0.39	0.386
20.08	-39.72	-37.85	0.00	-2,996.3	0.00	2,996.30	3,061.23	845.17	3,706.39	3,062.60	0.79	-0.4	0.386
20.08	-39.72	-37.85	0.00	-2,996.3	0.00	2,996.30	3,061.23	845.17	3,706.39	3,062.60	0.79	-0.4	0.993
25.00	-38.11	-37.09	0.00	-2,810.1	0.00	2,810.08	3,008.37	819.02	3,480.53	2,915.97	1.26	-0.5	0.978
30.00	-36.63	-36.53	0.00	-2,624.6	0.00	2,624.63	2,951.91	792.43	3,258.28	2,767.76	1.95	-0.8	0.963
35.00	-35.23	-36.09	0.00	-2,442.0	0.00	2,442.00	2,892.69	765.85	3,043.36	2,620.63	2.95	-1.11	0.946
40.00	-33.86	-35.66	0.00	-2,261.5	0.00	2,261.53	2,830.70	739.26	2,835.77	2,474.83	4.28	-1.42	0.928
45.00	-32.58	-35.35	0.00	-2,083.2	0.00	2,083.25	2,765.95	712.68	2,635.51	2,330.63	5.94	-1.74	0.908
46.66	-32.11	-35.14	0.00	-2,024.6	0.00	2,024.57	2,743.85	703.85	2,570.65	2,283.15	6.56	-1.85	0.901
50.00	-30.83	-34.88	0.00	-1,907.2	0.00	1,907.22	2,698.44	686.10	2,442.59	2,188.28	7.94	-2.08	0.886
51.75	-30.17	-34.77	0.00	-1,846.2	0.00	1,846.18	2,674.16	676.79	2,376.79	2,138.95	8.73	-2.2	0.877
52.33	-29.87	-34.60	0.00	-1,826.0	0.00	1,826.02	1,970.68	546.80	1,939.21	1,594.53	9	-2.24	0.634
55.00	-29.02	-34.21	0.00	-1,733.6	0.00	1,733.62	1,948.33	535.44	1,859.51	1,543.50	10.28	-2.35	0.616
60.00	-27.51	-33.74	0.00	-1,562.6	0.00	1,562.56	1,904.35	514.18	1,714.74	1,448.35	12.87	-2.57	0.580
63.75	-26.41	-33.46	0.00	-1,436.0	0.00	1,436.03	1,869.55	498.23	1,610.02	1,377.48	14.96	-2.74	0.552
65.00	-25.92	-33.32	0.00	-1,394.2	0.00	1,394.20	1,857.61	492.91	1,575.84	1,353.97	15.68	-2.8	0.366
66.25	-25.42	-33.06	0.00	-1,352.6	0.00	1,352.55	1,845.49	487.59	1,542.03	1,330.53	16.42	-2.83	0.359
66.25	-25.42	-33.06	0.00	-1,352.6	0.00	1,352.55	1,845.49	487.59	1,542.03	1,330.53	16.42	-2.83	0.532
70.00	-24.36	-32.73	0.00	-1,228.6	0.00	1,228.59	1,808.10	471.64	1,442.81	1,260.63	18.69	-2.94	0.501
72.00	-23.76	-32.17	0.00	-1,163.1	0.00	1,163.12	1,787.53	463.14	1,391.24	1,223.64	19.94	-3.03	0.484
75.00	-22.92	-31.93	0.00	-1,066.6	0.00	1,066.62	1,755.83	450.38	1,315.64	1,168.58	21.89	-3.16	0.459
76.25	-22.55	-31.70	0.00	-1,026.7	0.00	1,026.71	1,742.33	445.06	1,284.76	1,145.80	22.73	-3.21	0.447
76.25	-22.55	-31.70	0.00	-1,026.7	0.00	1,026.71	1,742.33	445.06	1,284.76	1,145.80	22.73	-3.21	0.914
80.00	-21.81	-31.33	0.00	-907.8	0.00	907.84	1,700.80	429.11	1,194.34	1,078.09	25.31	-3.37	0.860
85.00	-20.83	-30.94	0.00	-751.2	0.00	751.20	1,643.00	407.84	1,078.90	989.43	29.06	-3.77	0.778
90.00	-19.95	-30.64	0.00	-596.5	0.00	596.52	1,582.44	386.58	969.33	902.85	33.22	-4.15	0.680
92.00	-19.45	-29.84	0.00	-535.2	0.00	535.24	1,557.45	378.07	927.14	868.86	34.99	-4.3	0.635
95.00	-15.56	-24.39	0.00	-445.7	0.00	445.72	1,519.12	365.31	865.62	818.61	37.76	-4.51	0.559
95.03	-15.52	-24.24	0.00	-445.0	0.00	444.99	1,518.73	365.18	865.02	818.11	37.78	-4.51	0.559
98.95	-14.69	-24.00	0.00	-350.0	0.00	349.96	1,018.61	265.95	611.67	533.96	41.59	-4.76	0.678
100.00	-14.56	-23.94	0.00	-324.8	0.00	324.76	1,010.56	262.60	596.37	523.02	42.64	-4.82	0.644
100.30	-14.44	-23.76	0.00	-317.6	0.00	317.57	1,008.24	261.64	592.03	519.90	42.95	-4.84	0.633
102.00	-11.40	-21.15	0.00	-277.2	0.00	277.19	994.89	256.22	567.74	502.30	44.69	-4.96	0.570
102.20	-11.06	-19.51	0.00	-273.0	0.00	272.96	993.29	255.58	564.92	500.24	44.9	-4.98	0.563
102.40	-10.67	-18.81	0.00	-269.1	0.00	269.06	991.70	254.94	562.10	498.18	45.11	-4.99	0.556
103.50	-10.20	-18.27	0.00	-248.4	0.00	248.37	982.84	251.44	546.74	486.88	46.27	-5.07	0.526
103.70	-9.93	-18.09	0.00	-244.7	0.00	244.71	981.21	250.80	543.97	484.83	46.48	-5.08	0.520
105.00	-9.13	-14.95	0.00	-221.2	0.00	221.19	970.54	246.65	526.13	471.57	47.88	-5.16	0.482
108.50	-8.61	-14.59	0.00	-168.8	0.00	168.85	940.89	235.49	479.58	436.30	51.73	-5.36	0.400
110.00	-8.48	-14.46	0.00	-147.0	0.00	146.97	927.77	230.70	460.29	421.40	53.43	-5.44	0.362
112.00	-6.22	-12.65	0.00	-118.0	0.00	118.05	909.88	224.32	435.19	401.76	55.72	-5.53	0.304
113.20	-6.00	-11.81	0.00	-102.9	0.00	102.87	898.94	220.49	420.46	390.09	57.12	-5.58	0.273
113.80	-5.82	-11.16	0.00	-95.8	0.00	95.79	893.41	218.58	413.19	384.30	57.82	-5.6	0.258
115.00	-5.73	-11.09	0.00	-82.4	0.00	82.40	882.23	214.75	398.85	372.78	59.23	-5.65	0.230
115.60	-5.49	-10.60	0.00	-75.8	0.00	75.75	876.57	212.84	391.77	367.06	59.94	-5.67	0.215
119.60	-4.88	-10.04	0.00	-32.7	0.00	32.69	837.89	200.08	346.21	329.63	64.73	-5.77	0.108
120.00	-4.85	-9.96	0.00	-28.7	0.00	28.68	833.92	198.80	341.81	325.96	65.22	-5.77	0.096
122.00	-0.99	-5.61	0.00	-8.0	0.00	8.04	813.82	192.42	320.23	307.80	67.64	-5.79	0.028
122.10	-0.95	-5.03	0.00	-7.5	0.00	7.48	812.81	192.10	319.16	306.90	67.76	-5.79	0.026
122.30	-0.71	-3.93	0.00	-6.5	0.00	6.47	810.53	191.46	317.05	305.01	68	-5.8	0.023
122.70	-0.67	-3.35	0.00	-4.9	0.00	4.90	805.12	190.19	312.84	300.94	68.49	-5.8	0.017
122.80	-0.59	-2.87	0.00	-4.6	0.00	4.57	803.77	189.87	311.79	299.92	68.61	-5.8	0.016
122.90	-0.38	-1.34	0.00	-4.3	0.00	4.28	802.42	189.55	310.74	298.91	68.73	-5.8	0.015
123.10	-0.30	-1.18	0.00	-4.0	0.00	4.01	799.72	188.91	308.65	296.89	68.97	-5.8	0.014
124.00	0.00	-1.14	0.00	-3.0	0.00	2.95	787.57	186.04	299.35	287.89	70.06	-5.8	0.010

Load Case: 0.9D + 1.0W	113.06 mph wind with no ice	24 Iterations
Gust Response Factor: 1.10		
Dead load Factor: 0.90		
Wind Load Factor: 1.00		

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-37.85	-41.23	0.00	-3,769.1	0.00	3,769.14	3,249.22	951.93	4,701.78	3,663.92	0	0	0.348
5.00	-35.52	-40.57	0.00	-3,563.0	0.00	3,562.99	3,206.58	925.35	4,442.87	3,514.28	0.05	-0.08	0.334
7.50	-34.36	-40.13	0.00	-3,461.6	0.00	3,461.57	3,184.22	912.06	4,316.16	3,439.36	0.1	-0.13	0.327
7.50	-34.36	-40.13	0.00	-3,461.6	0.00	3,461.57	3,184.22	912.06	4,316.16	3,439.36	0.1	-0.13	0.424
10.00	-33.41	-39.48	0.00	-3,361.2	0.00	3,361.25	3,161.17	898.77	4,191.29	3,364.41	0.18	-0.17	0.416
15.00	-31.56	-38.63	0.00	-3,163.8	0.00	3,163.84	3,113.00	872.18	3,947.04	3,214.56	0.42	-0.28	0.398
20.00	-29.78	-38.19	0.00	-2,970.7	0.00	2,970.70	3,062.07	845.60	3,710.12	3,064.99	0.78	-0.39	0.381
20.08	-29.71	-37.77	0.00	-2,967.6	0.00	2,967.65	3,061.23	845.17	3,706.39	3,062.60	0.79	-0.39	0.381
20.08	-29.71	-37.77	0.00	-2,967.6	0.00	2,967.65	3,061.23	845.17	3,706.39	3,062.60	0.79	-0.39	0.981
25.00	-28.48	-36.98	0.00	-2,781.8	0.00	2,781.83	3,008.37	819.02	3,480.53	2,915.97	1.25	-0.5	0.966
30.00	-27.33	-36.37	0.00	-2,596.9	0.00	2,596.94	2,951.91	792.43	3,258.28	2,767.76	1.93	-0.79	0.950
35.00	-26.23	-35.89	0.00	-2,415.1	0.00	2,415.11	2,892.69	765.85	3,043.36	2,620.63	2.92	-1.09	0.933
40.00	-25.16	-35.41	0.00	-2,235.7	0.00	2,235.66	2,830.70	739.26	2,835.77	2,474.83	4.24	-1.4	0.915
45.00	-24.18	-35.08	0.00	-2,058.6	0.00	2,058.62	2,765.95	712.68	2,635.51	2,330.63	5.88	-1.72	0.894
46.66	-23.80	-34.84	0.00	-2,000.4	0.00	2,000.39	2,743.85	703.85	2,570.65	2,283.15	6.5	-1.83	0.887
50.00	-22.82	-34.57	0.00	-1,884.0	0.00	1,884.03	2,698.44	686.10	2,442.59	2,188.28	7.86	-2.06	0.872
51.75	-22.32	-34.45	0.00	-1,823.5	0.00	1,823.52	2,674.16	676.79	2,376.79	2,138.95	8.64	-2.18	0.863
52.33	-22.08	-34.28	0.00	-1,803.5	0.00	1,803.54	1,970.68	546.80	1,939.21	1,594.53	8.91	-2.22	0.624
55.00	-21.43	-33.87	0.00	-1,712.0	0.00	1,712.01	1,948.33	535.44	1,859.51	1,543.50	10.18	-2.33	0.606
60.00	-20.27	-33.40	0.00	-1,542.6	0.00	1,542.64	1,904.35	514.18	1,714.74	1,448.35	12.74	-2.54	0.570
63.75	-19.44	-33.11	0.00	-1,417.4	0.00	1,417.41	1,869.55	498.23	1,610.02	1,377.48	14.8	-2.71	0.542
65.00	-19.07	-32.97	0.00	-1,376.0	0.00	1,376.02	1,857.61	492.91	1,575.84	1,353.97	15.52	-2.76	0.360
66.25	-18.69	-32.71	0.00	-1,334.8	0.00	1,334.80	1,845.49	487.59	1,542.03	1,330.53	16.25	-2.8	0.353
66.25	-18.69	-32.71	0.00	-1,334.8	0.00	1,334.80	1,845.49	487.59	1,542.03	1,330.53	16.25	-2.8	0.523
70.00	-17.88	-32.38	0.00	-1,212.2	0.00	1,212.16	1,808.10	471.64	1,442.81	1,260.63	18.49	-2.91	0.493
72.00	-17.42	-31.81	0.00	-1,147.4	0.00	1,147.39	1,787.53	463.14	1,391.24	1,223.64	19.73	-3	0.476
75.00	-16.79	-31.58	0.00	-1,052.0	0.00	1,051.96	1,755.83	450.38	1,315.64	1,168.58	21.66	-3.12	0.451
76.25	-16.50	-31.34	0.00	-1,012.5	0.00	1,012.49	1,742.33	445.06	1,284.76	1,145.80	22.48	-3.18	0.439
76.25	-16.50	-31.34	0.00	-1,012.5	0.00	1,012.49	1,742.33	445.06	1,284.76	1,145.80	22.48	-3.18	0.898
80.00	-15.91	-30.95	0.00	-895.0	0.00	894.97	1,700.80	429.11	1,194.34	1,078.09	25.04	-3.33	0.845
85.00	-15.14	-30.53	0.00	-740.2	0.00	740.23	1,643.00	407.84	1,078.90	989.43	28.74	-3.72	0.763
90.00	-14.45	-30.22	0.00	-587.6	0.00	587.60	1,582.44	386.58	969.33	902.85	32.85	-4.1	0.666
92.00	-14.07	-29.41	0.00	-527.2	0.00	527.17	1,557.45	378.07	927.14	868.86	34.6	-4.25	0.622
95.00	-11.24	-24.03	0.00	-438.9	0.00	438.94	1,519.12	365.31	865.62	818.61	37.34	-4.45	0.548
95.03	-11.20	-23.88	0.00	-438.2	0.00	438.22	1,518.73	365.18	865.02	818.11	37.36	-4.45	0.547
98.95	-10.57	-23.64	0.00	-344.6	0.00	344.61	1,018.61	265.95	611.67	533.96	41.12	-4.7	0.664
100.00	-10.47	-23.58	0.00	-319.8	0.00	319.78	1,010.56	262.60	596.37	523.02	42.16	-4.76	0.630
100.30	-10.37	-23.39	0.00	-312.7	0.00	312.71	1,008.24	261.64	592.03	519.90	42.46	-4.78	0.620
102.00	-8.14	-20.86	0.00	-272.9	0.00	272.94	994.89	256.22	567.74	502.30	44.19	-4.9	0.558
102.20	-7.91	-19.22	0.00	-268.8	0.00	268.77	993.29	255.58	564.92	500.24	44.39	-4.92	0.551
102.40	-7.63	-18.53	0.00	-264.9	0.00	264.93	991.70	254.94	562.10	498.18	44.6	-4.93	0.545
103.50	-7.29	-18.01	0.00	-244.5	0.00	244.54	982.84	251.44	546.74	486.88	45.74	-5	0.515
103.70	-7.08	-17.83	0.00	-240.9	0.00	240.94	981.21	250.80	543.97	484.83	45.95	-5.02	0.509
105.00	-6.54	-14.71	0.00	-217.8	0.00	217.76	970.54	246.65	526.13	471.57	47.33	-5.1	0.472
108.50	-6.15	-14.35	0.00	-166.3	0.00	166.29	940.89	235.49	479.58	436.30	51.14	-5.29	0.391
110.00	-6.05	-14.22	0.00	-144.8	0.00	144.77	927.77	230.70	460.29	421.40	52.81	-5.37	0.354
112.00	-4.39	-12.46	0.00	-116.3	0.00	116.34	909.88	224.32	435.19	401.76	55.08	-5.46	0.297
113.20	-4.24	-11.63	0.00	-101.4	0.00	101.38	898.94	220.49	420.46	390.09	56.45	-5.51	0.267
113.80	-4.12	-10.98	0.00	-94.4	0.00	94.40	893.41	218.58	413.19	384.30	57.15	-5.53	0.253
115.00	-4.06	-10.92	0.00	-81.2	0.00	81.22	882.23	214.75	398.85	372.78	58.54	-5.58	0.225
115.60	-3.88	-10.44	0.00	-74.7	0.00	74.67	876.57	212.84	391.77	367.06	59.24	-5.6	0.210
119.60	-3.43	-9.89	0.00	-32.3	0.00	32.29	837.89	200.08	346.21	329.63	63.97	-5.69	0.104
120.00	-3.42	-9.81	0.00	-28.3	0.00	28.34	833.92	198.80	341.81	325.96	64.45	-5.7	0.093
122.00	-0.61	-5.57	0.00	-8.0	0.00	8.00	813.82	192.42	320.23	307.80	66.84	-5.72	0.028
122.10	-0.59	-4.99	0.00	-7.4	0.00	7.44	812.81	192.10	319.16	306.90	66.96	-5.72	0.026
122.30	-0.44	-3.90	0.00	-6.4	0.00	6.45	810.53	191.46	317.05	305.01	67.2	-5.72	0.022
122.70	-0.42	-3.33	0.00	-4.9	0.00	4.88	805.12	190.19	312.84	300.94	67.67	-5.72	0.017
122.80	-0.37	-2.85	0.00	-4.6	0.00	4.55	803.77	189.87	311.79	299.92	67.79	-5.72	0.016
122.90	-0.25	-1.33	0.00	-4.3	0.00	4.27	802.42	189.55	310.74	298.91	67.91	-5.72	0.015
123.10	-0.20	-1.17	0.00	-4.0	0.00	4.00	799.72	188.91	308.65	296.89	68.15	-5.72	0.014
124.00	0.00	-1.14	0.00	-3.0	0.00	2.95	787.57	186.04	299.35	287.89	69.23	-5.72	0.010

ASSET: 210744, Spring Hill Lane CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: OAA767892_C4_06

Load Case: 1.2D + 1.0Di + 1.0Wi	48.73 mph wind with 0.850" radial ice		23 Iterations
Gust Response Factor: 1.10	Ice Dead Load Factor	1.00	
Dead load Factor: 1.20			Ice Importance Factor 1.00
Wind Load Factor: 1.00			

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-67.53	-10.69	0.00	-987.7	0.00	987.70	3,249.22	951.93	4,701.78	3,663.92	0	0	0.099
5.00	-64.11	-10.54	0.00	-934.3	0.00	934.26	3,206.58	925.35	4,442.87	3,514.28	0.01	-0.02	0.095
7.50	-62.40	-10.44	0.00	-907.9	0.00	907.92	3,184.22	912.06	4,316.16	3,439.36	0.03	-0.03	0.093
7.50	-62.40	-10.44	0.00	-907.9	0.00	907.92	3,184.22	912.06	4,316.16	3,439.36	0.03	-0.03	0.120
10.00	-60.99	-10.30	0.00	-881.8	0.00	881.83	3,161.17	898.77	4,191.29	3,364.41	0.05	-0.04	0.118
15.00	-58.21	-10.11	0.00	-830.4	0.00	830.35	3,113.00	872.18	3,947.04	3,214.56	0.11	-0.07	0.113
20.00	-55.45	-10.02	0.00	-779.8	0.00	779.80	3,062.07	845.60	3,710.12	3,064.99	0.2	-0.1	0.108
20.08	-55.41	-9.93	0.00	-779.0	0.00	779.00	3,061.23	845.17	3,706.39	3,062.60	0.21	-0.1	0.108
20.08	-55.41	-9.93	0.00	-779.0	0.00	779.00	3,061.23	845.17	3,706.39	3,062.60	0.21	-0.1	0.273
25.00	-53.51	-9.78	0.00	-730.2	0.00	730.15	3,008.37	819.02	3,480.53	2,915.97	0.33	-0.13	0.268
30.00	-51.88	-9.65	0.00	-681.2	0.00	681.25	2,951.91	792.43	3,258.28	2,767.76	0.51	-0.21	0.264
35.00	-50.35	-9.52	0.00	-633.0	0.00	632.99	2,892.69	765.85	3,043.36	2,620.63	0.77	-0.29	0.259
40.00	-48.87	-9.39	0.00	-585.4	0.00	585.37	2,830.70	739.26	2,835.77	2,474.83	1.11	-0.37	0.254
45.00	-47.42	-9.30	0.00	-538.4	0.00	538.41	2,765.95	712.68	2,635.51	2,330.63	1.54	-0.45	0.248
46.66	-46.94	-9.24	0.00	-523.0	0.00	522.97	2,743.85	703.85	2,570.65	2,283.15	1.7	-0.48	0.246
50.00	-45.56	-9.16	0.00	-492.1	0.00	492.12	2,698.44	686.10	2,442.59	2,188.28	2.06	-0.54	0.242
51.75	-44.85	-9.13	0.00	-476.1	0.00	476.08	2,674.16	676.79	2,376.79	2,138.95	2.27	-0.57	0.240
52.33	-44.55	-9.08	0.00	-470.8	0.00	470.79	1,970.68	546.80	1,939.21	1,594.53	2.34	-0.58	0.173
55.00	-43.62	-8.96	0.00	-446.5	0.00	446.54	1,948.33	535.44	1,859.51	1,543.50	2.67	-0.61	0.168
60.00	-41.92	-8.81	0.00	-401.8	0.00	401.75	1,904.35	514.18	1,714.74	1,448.35	3.34	-0.67	0.158
63.75	-40.65	-8.73	0.00	-368.7	0.00	368.70	1,869.55	498.23	1,610.02	1,377.48	3.88	-0.71	0.151
65.00	-40.11	-8.68	0.00	-357.8	0.00	357.79	1,857.61	492.91	1,575.84	1,353.97	4.07	-0.72	0.100
66.25	-39.56	-8.60	0.00	-346.9	0.00	346.93	1,845.49	487.59	1,542.03	1,330.53	4.26	-0.73	0.098
66.25	-39.56	-8.60	0.00	-346.9	0.00	346.93	1,845.49	487.59	1,542.03	1,330.53	4.26	-0.73	0.145
70.00	-38.33	-8.50	0.00	-314.7	0.00	314.68	1,808.10	471.64	1,442.81	1,260.63	4.85	-0.76	0.137
72.00	-37.58	-8.32	0.00	-297.7	0.00	297.68	1,787.53	463.14	1,391.24	1,223.64	5.17	-0.78	0.132
75.00	-36.63	-8.25	0.00	-272.7	0.00	272.73	1,755.83	450.38	1,315.64	1,168.58	5.67	-0.82	0.125
76.25	-36.23	-8.17	0.00	-262.4	0.00	262.42	1,742.33	445.06	1,284.76	1,145.80	5.89	-0.83	0.122
76.25	-36.23	-8.17	0.00	-262.4	0.00	262.42	1,742.33	445.06	1,284.76	1,145.80	5.89	-0.83	0.250
80.00	-35.43	-8.06	0.00	-231.8	0.00	231.77	1,700.80	429.11	1,194.34	1,078.09	6.56	-0.87	0.236
85.00	-34.41	-7.94	0.00	-191.5	0.00	191.47	1,643.00	407.84	1,078.90	989.43	7.53	-0.97	0.215
90.00	-33.43	-7.86	0.00	-151.8	0.00	151.75	1,582.44	386.58	969.33	902.85	8.6	-1.07	0.190
92.00	-32.74	-7.61	0.00	-136.0	0.00	136.04	1,557.45	378.07	927.14	868.86	9.05	-1.11	0.178
95.00	-26.61	-6.22	0.00	-113.2	0.00	113.21	1,519.12	365.31	865.62	818.61	9.77	-1.16	0.156
95.03	-26.60	-6.18	0.00	-113.0	0.00	113.03	1,518.73	365.18	865.02	818.11	9.78	-1.16	0.156
98.95	-25.66	-6.10	0.00	-88.8	0.00	88.82	1,018.61	265.95	611.67	533.96	10.76	-1.22	0.192
100.00	-25.51	-6.08	0.00	-82.4	0.00	82.41	1,010.56	262.60	596.37	523.02	11.03	-1.24	0.183
100.30	-25.31	-6.03	0.00	-80.6	0.00	80.59	1,008.24	261.64	592.03	519.90	11.11	-1.25	0.181
102.00	-21.09	-5.28	0.00	-70.3	0.00	70.34	994.89	256.22	567.74	502.30	11.55	-1.28	0.162
102.20	-20.01	-4.92	0.00	-69.3	0.00	69.28	993.29	255.58	564.92	500.24	11.61	-1.28	0.159
102.40	-19.31	-4.75	0.00	-68.3	0.00	68.29	991.70	254.94	562.10	498.18	11.66	-1.28	0.157
103.50	-18.57	-4.62	0.00	-63.1	0.00	63.07	982.84	251.44	546.74	486.88	11.96	-1.3	0.149
103.70	-18.20	-4.57	0.00	-62.1	0.00	62.14	981.21	250.80	543.97	484.83	12.01	-1.31	0.147
105.00	-15.65	-3.86	0.00	-56.2	0.00	56.20	970.54	246.65	526.13	471.57	12.37	-1.33	0.136
108.50	-14.89	-3.75	0.00	-42.7	0.00	42.70	940.89	235.49	479.58	436.30	13.37	-1.38	0.114
110.00	-14.72	-3.70	0.00	-37.1	0.00	37.09	927.77	230.70	460.29	421.40	13.8	-1.4	0.104
112.00	-11.85	-3.19	0.00	-29.7	0.00	29.68	909.88	224.32	435.19	401.76	14.39	-1.42	0.087
113.20	-11.25	-2.98	0.00	-25.8	0.00	25.85	898.94	220.49	420.46	390.09	14.75	-1.43	0.079
113.80	-10.79	-2.82	0.00	-24.1	0.00	24.06	893.41	218.58	413.19	384.30	14.93	-1.44	0.075
115.00	-10.67	-2.80	0.00	-20.7	0.00	20.68	882.23	214.75	398.85	372.78	15.29	-1.45	0.068
115.60	-10.25	-2.67	0.00	-19.0	0.00	19.00	876.57	212.84	391.77	367.06	15.48	-1.45	0.064
119.60	-9.25	-2.51	0.00	-8.2	0.00	8.18	837.89	200.08	346.21	329.63	16.71	-1.48	0.036
120.00	-9.21	-2.48	0.00	-7.2	0.00	7.18	833.92	198.80	341.81	325.96	16.83	-1.48	0.033
122.00	-3.18	-1.34	0.00	-2.0	0.00	2.05	813.82	192.42	320.23	307.80	17.45	-1.49	0.011
122.10	-2.94	-1.21	0.00	-1.9	0.00	1.91	812.81	192.10	319.16	306.90	17.48	-1.49	0.010
122.30	-2.29	-0.96	0.00	-1.7	0.00	1.67	810.53	191.46	317.05	305.01	17.55	-1.49	0.008
122.70	-2.05	-0.82	0.00	-1.3	0.00	1.29	805.12	190.19	312.84	300.94	17.67	-1.49	0.007
122.80	-1.74	-0.70	0.00	-1.2	0.00	1.21	803.77	189.87	311.79	299.92	17.7	-1.49	0.006
122.90	-0.89	-0.36	0.00	-1.1	0.00	1.14	802.42	189.55	310.74	298.91	17.73	-1.49	0.005
123.10	-0.73	-0.31	0.00	-1.1	0.00	1.07	799.72	188.91	308.65	296.89	17.79	-1.49	0.005
124.00	0.00	-0.29	0.00	-0.8	0.00	0.79	787.57	186.04	299.35	287.89	18.07	-1.49	0.003

ASSET: 210744, Spring Hill Lane CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: OAA767892_C4_06

Load Case: 1.0D + 1.0W	60 mph Wind with No Ice	23 Iterations
Gust Response Factor: 1.10		
Dead load Factor: 1.00		
Wind Load Factor: 1.00		

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-42.09	-10.39	0.00	-953.1	0.00	953.14	3,249.22	951.93	4,701.78	3,663.92	0	0	0.092
5.00	-39.55	-10.22	0.00	-901.2	0.00	901.19	3,206.58	925.35	4,442.87	3,514.28	0.01	-0.02	0.088
7.50	-38.29	-10.11	0.00	-875.6	0.00	875.63	3,184.22	912.06	4,316.16	3,439.36	0.03	-0.03	0.086
7.50	-38.29	-10.11	0.00	-875.6	0.00	875.63	3,184.22	912.06	4,316.16	3,439.36	0.03	-0.03	0.112
10.00	-37.29	-9.95	0.00	-850.4	0.00	850.35	3,161.17	898.77	4,191.29	3,364.41	0.05	-0.04	0.110
15.00	-35.31	-9.74	0.00	-800.6	0.00	800.59	3,113.00	872.18	3,947.04	3,214.56	0.11	-0.07	0.105
20.00	-33.36	-9.63	0.00	-751.9	0.00	751.90	3,062.07	845.60	3,710.12	3,064.99	0.2	-0.1	0.101
20.08	-33.33	-9.52	0.00	-751.1	0.00	751.13	3,061.23	845.17	3,706.39	3,062.60	0.2	-0.1	0.101
20.08	-33.33	-9.52	0.00	-751.1	0.00	751.13	3,061.23	845.17	3,706.39	3,062.60	0.2	-0.1	0.256
25.00	-32.08	-9.33	0.00	-704.3	0.00	704.27	3,008.37	819.02	3,480.53	2,915.97	0.32	-0.13	0.252
30.00	-30.99	-9.18	0.00	-657.6	0.00	657.64	2,951.91	792.43	3,258.28	2,767.76	0.49	-0.2	0.248
35.00	-29.97	-9.06	0.00	-611.8	0.00	611.75	2,892.69	765.85	3,043.36	2,620.63	0.74	-0.28	0.244
40.00	-28.96	-8.95	0.00	-566.4	0.00	566.44	2,830.70	739.26	2,835.77	2,474.83	1.07	-0.36	0.239
45.00	-27.99	-8.87	0.00	-521.7	0.00	521.71	2,765.95	712.68	2,635.51	2,330.63	1.49	-0.44	0.234
46.66	-27.67	-8.81	0.00	-507.0	0.00	507.00	2,743.85	703.85	2,570.65	2,283.15	1.65	-0.46	0.232
50.00	-26.68	-8.74	0.00	-477.6	0.00	477.58	2,698.44	686.10	2,442.59	2,188.28	1.99	-0.52	0.228
51.75	-26.16	-8.71	0.00	-462.3	0.00	462.28	2,674.16	676.79	2,376.79	2,138.95	2.19	-0.55	0.226
52.33	-25.95	-8.67	0.00	-457.2	0.00	457.23	1,970.68	546.80	1,939.21	1,594.53	2.26	-0.56	0.163
55.00	-25.30	-8.57	0.00	-434.1	0.00	434.07	1,948.33	535.44	1,859.51	1,543.50	2.58	-0.59	0.159
60.00	-24.11	-8.45	0.00	-391.2	0.00	391.22	1,904.35	514.18	1,714.74	1,448.35	3.23	-0.64	0.149
63.75	-23.23	-8.38	0.00	-359.5	0.00	359.53	1,869.55	498.23	1,610.02	1,377.48	3.75	-0.69	0.142
65.00	-22.84	-8.35	0.00	-349.0	0.00	349.05	1,857.61	492.91	1,575.84	1,353.97	3.93	-0.7	0.094
66.25	-22.45	-8.28	0.00	-338.6	0.00	338.62	1,845.49	487.59	1,542.03	1,330.53	4.12	-0.71	0.092
66.25	-22.45	-8.28	0.00	-338.6	0.00	338.62	1,845.49	487.59	1,542.03	1,330.53	4.12	-0.71	0.137
70.00	-21.59	-8.20	0.00	-307.6	0.00	307.57	1,808.10	471.64	1,442.81	1,260.63	4.68	-0.74	0.129
72.00	-21.12	-8.06	0.00	-291.2	0.00	291.17	1,787.53	463.14	1,391.24	1,223.64	5	-0.76	0.125
75.00	-20.44	-8.00	0.00	-267.0	0.00	267.00	1,755.83	450.38	1,315.64	1,168.58	5.49	-0.79	0.118
76.25	-20.17	-7.94	0.00	-257.0	0.00	257.01	1,742.33	445.06	1,284.76	1,145.80	5.7	-0.8	0.115
76.25	-20.17	-7.94	0.00	-257.0	0.00	257.01	1,742.33	445.06	1,284.76	1,145.80	5.7	-0.8	0.236
80.00	-19.65	-7.84	0.00	-227.2	0.00	227.24	1,700.80	429.11	1,194.34	1,078.09	6.34	-0.84	0.223
85.00	-18.97	-7.74	0.00	-188.0	0.00	188.02	1,643.00	407.84	1,078.90	989.43	7.28	-0.94	0.202
90.00	-18.33	-7.67	0.00	-149.3	0.00	149.31	1,582.44	386.58	969.33	902.85	8.32	-1.04	0.177
92.00	-17.93	-7.47	0.00	-134.0	0.00	133.97	1,557.45	378.07	927.14	868.86	8.77	-1.08	0.166
95.00	-14.41	-6.10	0.00	-111.6	0.00	111.57	1,519.12	365.31	865.62	818.61	9.46	-1.13	0.146
95.03	-14.40	-6.07	0.00	-111.4	0.00	111.39	1,518.73	365.18	865.02	818.11	9.47	-1.13	0.146
98.95	-13.75	-6.01	0.00	-87.6	0.00	87.61	1,018.61	265.95	611.67	533.96	10.42	-1.19	0.178
100.00	-13.65	-5.99	0.00	-81.3	0.00	81.31	1,010.56	262.60	596.37	523.02	10.69	-1.21	0.169
100.30	-13.56	-5.94	0.00	-79.5	0.00	79.51	1,008.24	261.64	592.03	519.90	10.76	-1.21	0.167
102.00	-10.88	-5.30	0.00	-69.4	0.00	69.40	994.89	256.22	567.74	502.30	11.2	-1.24	0.150
102.20	-10.49	-4.88	0.00	-68.3	0.00	68.34	993.29	255.58	564.92	500.24	11.25	-1.25	0.148
102.40	-10.13	-4.71	0.00	-67.4	0.00	67.37	991.70	254.94	562.10	498.18	11.31	-1.25	0.146
103.50	-9.72	-4.58	0.00	-62.2	0.00	62.19	982.84	251.44	546.74	486.88	11.6	-1.27	0.138
103.70	-9.49	-4.53	0.00	-61.3	0.00	61.27	981.21	250.80	543.97	484.83	11.65	-1.27	0.136
105.00	-8.64	-3.74	0.00	-55.4	0.00	55.38	970.54	246.65	526.13	471.57	12	-1.29	0.127
108.50	-8.20	-3.65	0.00	-42.3	0.00	42.29	940.89	235.49	479.58	436.30	12.97	-1.34	0.106
110.00	-8.10	-3.62	0.00	-36.8	0.00	36.82	927.77	230.70	460.29	421.40	13.39	-1.36	0.096
112.00	-6.10	-3.17	0.00	-29.6	0.00	29.58	909.88	224.32	435.19	401.76	13.97	-1.38	0.081
113.20	-5.86	-2.96	0.00	-25.8	0.00	25.78	898.94	220.49	420.46	390.09	14.32	-1.4	0.073
113.80	-5.67	-2.79	0.00	-24.0	0.00	24.01	893.41	218.58	413.19	384.30	14.49	-1.4	0.069
115.00	-5.60	-2.78	0.00	-20.6	0.00	20.65	882.23	214.75	398.85	372.78	14.85	-1.41	0.062
115.60	-5.37	-2.66	0.00	-19.0	0.00	18.99	876.57	212.84	391.77	367.06	15.03	-1.42	0.058
119.60	-4.82	-2.52	0.00	-8.2	0.00	8.20	837.89	200.08	346.21	329.63	16.23	-1.44	0.031
120.00	-4.80	-2.49	0.00	-7.2	0.00	7.20	833.92	198.80	341.81	325.96	16.35	-1.45	0.028
122.00	-1.26	-1.41	0.00	-2.0	0.00	2.03	813.82	192.42	320.23	307.80	16.96	-1.45	0.008
122.10	-1.18	-1.27	0.00	-1.9	0.00	1.88	812.81	192.10	319.16	306.90	16.99	-1.45	0.008
122.30	-0.90	-0.99	0.00	-1.6	0.00	1.63	810.53	191.46	317.05	305.01	17.05	-1.45	0.006
122.70	-0.82	-0.84	0.00	-1.2	0.00	1.23	805.12	190.19	312.84	300.94	17.17	-1.45	0.005
122.80	-0.71	-0.72	0.00	-1.2	0.00	1.15	803.77	189.87	311.79	299.92	17.2	-1.45	0.005
122.90	-0.42	-0.34	0.00	-1.1	0.00	1.08	802.42	189.55	310.74	298.91	17.23	-1.45	0.004
123.10	-0.34	-0.30	0.00	-1.0	0.00	1.01	799.72	188.91	308.65	296.89	17.29	-1.45	0.004
124.00	0.00	-0.29	0.00	-0.7	0.00	0.74	787.57	186.04	299.35	287.89	17.57	-1.45	0.003

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period (S_S):	0.222
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.056
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a :	1.600
Site Coefficient F_v :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.237
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.090
Seismic Response Coefficient (C_s):	0.033
Upper Limit C_s :	0.033
Lower Limit C_s :	0.030
Period based on Rayleigh Method (sec):	1.810
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	1.650
Total Unfactored Dead Load:	42.090 k
Seismic Base Shear (E):	1.390 k

1.2D + 1.0Ev + 1.0Eh Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
56	123.55	37	106	0.002	3	46
55	123	8	24	0.000	1	10
54	122.85	4	12	0.000	0	5
53	122.75	4	12	0.000	0	5
52	122.5	17	47	0.001	1	21
51	122.2	8	24	0.000	1	10
50	122.05	4	12	0.000	0	5
49	121	111	307	0.006	8	138
48	119.8	23	61	0.001	2	28
47	117.6	230	608	0.011	16	287
46	115.3	35	91	0.002	2	44
45	114.4	72	180	0.003	5	89
44	113.5	36	90	0.002	2	45
43	112.6	77	188	0.004	5	95
42	111	131	314	0.006	8	163
41	109.25	100	233	0.004	6	124
40	106.75	245	552	0.010	14	306
39	104.35	119	258	0.005	7	149
38	103.6	18	39	0.001	1	23
37	102.95	102	216	0.004	6	127
36	102.3	19	39	0.001	1	23
35	102.1	19	39	0.001	1	23
34	101.15	159	328	0.006	8	199
33	100.15	28	57	0.001	1	35
32	99.475	99	199	0.004	5	124
31	96.99	653	1,254	0.023	32	815
30	95.015	3	6	0.000	0	4
29	93.5	370	669	0.012	17	462
28	91	251	433	0.008	11	313
27	87.5	642	1,039	0.019	27	800
26	82.5	662	973	0.018	25	826
25	78.125	510	685	0.013	18	636
24	75.625	276	352	0.006	9	345
23	73.5	668	811	0.015	21	834

ASSET: 210744, Spring Hill Lane CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: OAA767892_C4_06

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
22	71	450	516	0.010	13	561
21	68.125	852	912	0.017	23	1,063
20	65.625	390	393	0.007	10	487
19	64.375	392	382	0.007	10	489
18	61.875	874	799	0.015	21	1,091
17	57.5	1,184	958	0.018	25	1,477
16	53.665	641	463	0.008	12	799
15	52.04	216	148	0.003	4	269
14	50.875	510	337	0.006	9	636
13	48.33	989	601	0.011	15	1,234
12	45.83	314	175	0.003	4	392
11	42.5	964	473	0.009	12	1,203
10	37.5	990	395	0.007	10	1,235
9	32.5	1,016	320	0.006	8	1,267
8	27.5	1,079	258	0.005	7	1,346
7	22.54	1,234	212	0.004	5	1,540
6	20.04	31	4	0.000	0	39
5	17.5	1,948	221	0.004	6	2,430
4	12.5	1,974	128	0.002	3	2,463
3	8.75	997	36	0.001	1	1,243
2	6.25	1,258	26	0.000	1	1,569
1	2.5	2,536	12	0.000	0	3,163
Bird 101-68-10-0-03	124	70	202	0.004	5	87
Bird 101-68-10-0-03	92	140	246	0.004	6	175
Generic Radio/ODU	124	60	173	0.003	4	75
Generic 2' HP Dish	124	90	259	0.005	7	112
Raycap DC6-48-60-18	124	30	86	0.002	2	37
Raycap DC6-48-60-18	124	60	173	0.003	4	75
Powerwave Allgon LGP21401	123.1	70	201	0.004	5	88
CCI HPA-65R-BUU-H6	122.9	102	290	0.005	7	127
Kathrein Scala 80010965	122.9	195	554	0.010	14	243
Powerwave Allgon 7770-00	122.8	105	298	0.006	8	131
CCI HPA-65R-BUU-H8	122.7	68	193	0.004	5	85
Ericsson RRUS-11	122.3	165	465	0.009	12	206
Kathrein Scala 80010966	122.3	115	323	0.006	8	143
CCI TPA-65R-LCUUUU-H8	122.1	82	229	0.004	6	102
Ericsson RRUS 4478 B14	122	180	504	0.009	13	224
Ericsson RRUS 32 B66	122	159	446	0.008	11	198
Ericsson RRUS 32 B66	119.6	318	863	0.016	22	397
Quintel QS66512-2	122	333	934	0.017	24	415
Kathrein Scala 800-10964K	122	284	798	0.015	20	355
Flat Platform with Round Handrails	122	2,500	7,012	0.129	180	3,118
Flat Platform with Round Handrails	102	2,500	5,216	0.096	134	3,118
Alcatel-Lucent TD-RRH8x20-25	115.6	198	508	0.009	13	247
RFS APXVTM14-C-I20	113.8	159	397	0.007	10	198
RFS APXVSPP18-C-A20	113.2	171	424	0.008	11	213
Generic Flat Low Profile Platform	112	1,875	4,566	0.084	117	2,339
Generic Flat Low Profile Platform	95	1,875	3,478	0.064	89	2,339
Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	108.5	192	444	0.008	11	239
NAiS VIC-100	105	1	2	0.000	0	1
Alcatel-Lucent 1900 MHz 4X45 RRH	105	360	788	0.014	20	449
EMS DR65-19-00DPQ	105	384	841	0.016	22	479
Ericsson Radio 4449 - B13&B5	103.7	210	450	0.008	12	262
Ericsson Air6449 B41	103.5	312	667	0.012	17	389
Generic 6.7" x 10.7" TTA	102.4	30	62	0.001	2	37
Ericsson AIR32 B4A B2P	102.4	317	667	0.012	17	396
RFS APXVAARR24_43-U-NA20	102.2	384	803	0.015	21	479
Telewave ANT150D6-9	102	26	54	0.001	1	32
Telewave ANT150D6-9	72	26	31	0.001	1	32
Generic BTS	100.3	60	122	0.002	3	75
Commscope FE-16148-OVP-B12	95	15	28	0.000	1	19
Samsung B5/B13 RRH-BR04C	95	211	391	0.007	10	263
Samsung B2/B66A RRH-BR049	95	253	470	0.009	12	316
Samsung MT6407-77A	95	245	454	0.008	12	305
Amphenol Antel BXA-80063-6BF-EDIN-X	95	58	107	0.002	3	72
Generic Mount Reinforcement	95	200	371	0.007	10	249
JMA Wireless MX06FIT665-02	95	180	334	0.006	9	225
JMA Wireless MX06FRO640-02	95	140	260	0.005	7	175
		42,089	54,208	1.000	1,393	52,500

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
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0.9D - 1.0Ev + 1.0Eh Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
56	123.55	37	106	0.002	3	31
55	123	8	24	0.000	1	7
54	122.85	4	12	0.000	0	4
53	122.75	4	12	0.000	0	4
52	122.5	17	47	0.001	1	14
51	122.2	8	24	0.000	1	7
50	122.05	4	12	0.000	0	4
49	121	111	307	0.006	8	95
48	119.8	23	61	0.001	2	19
47	117.6	230	608	0.011	16	197
46	115.3	35	91	0.002	2	30
45	114.4	72	180	0.003	5	61
44	113.5	36	90	0.002	2	31
43	112.6	77	188	0.004	5	65
42	111	131	314	0.006	8	112
41	109.25	100	233	0.004	6	85
40	106.75	245	552	0.010	14	209
39	104.35	119	258	0.005	7	102
38	103.6	18	39	0.001	1	16
37	102.95	102	216	0.004	6	87
36	102.3	19	39	0.001	1	16
35	102.1	19	39	0.001	1	16
34	101.15	159	328	0.006	8	136
33	100.15	28	57	0.001	1	24
32	99.475	99	199	0.004	5	85
31	96.99	653	1,254	0.023	32	557
30	95.015	3	6	0.000	0	3
29	93.5	370	669	0.012	17	316
28	91	251	433	0.008	11	214
27	87.5	642	1,039	0.019	27	547
26	82.5	662	973	0.018	25	565
25	78.125	510	685	0.013	18	435
24	75.625	276	352	0.006	9	236
23	73.5	668	811	0.015	21	570
22	71	450	516	0.010	13	383
21	68.125	852	912	0.017	23	726
20	65.625	390	393	0.007	10	333
19	64.375	392	382	0.007	10	334
18	61.875	874	799	0.015	21	746
17	57.5	1,184	958	0.018	25	1,009
16	53.665	641	463	0.008	12	546
15	52.04	216	148	0.003	4	184
14	50.875	510	337	0.006	9	435
13	48.33	989	601	0.011	15	843
12	45.83	314	175	0.003	4	268
11	42.5	964	473	0.009	12	822
10	37.5	990	395	0.007	10	844
9	32.5	1,016	320	0.006	8	866
8	27.5	1,079	258	0.005	7	920
7	22.54	1,234	212	0.004	5	1,052
6	20.04	31	4	0.000	0	26
5	17.5	1,948	221	0.004	6	1,661
4	12.5	1,974	128	0.002	3	1,683
3	8.75	997	36	0.001	1	850
2	6.25	1,258	26	0.000	1	1,073
1	2.5	2,536	12	0.000	0	2,162
Bird 101-68-10-0-03	124	70	202	0.004	5	60
Bird 101-68-10-0-03	92	140	246	0.004	6	119
Generic Radio/ODU	124	60	173	0.003	4	51

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
Generic 2' HP Dish	124	90	259	0.005	7	77
Raycap DC6-48-60-18	124	30	86	0.002	2	26
Raycap DC6-48-60-18	124	60	173	0.003	4	51
Powerwave Allgon LGP21401	123.1	70	201	0.004	5	60
CCI HPA-65R-BUU-H6	122.9	102	290	0.005	7	87
Kathrein Scala 80010965	122.9	195	554	0.010	14	166
Powerwave Allgon 7770.00	122.8	105	298	0.006	8	90
CCI HPA-65R-BUU-H8	122.7	68	193	0.004	5	58
Ericsson RRUS-11	122.3	165	465	0.009	12	141
Kathrein Scala 80010966	122.3	115	323	0.006	8	98
CCI TPA-65R-LCUUUU-H8	122.1	82	229	0.004	6	70
Ericsson RRUS 4478 B14	122	180	504	0.009	13	153
Ericsson RRUS 32 B66	122	159	446	0.008	11	136
Ericsson RRUS 32 B66	119.6	318	863	0.016	22	271
Quintel QS66512-2	122	333	934	0.017	24	284
Kathrein Scala 800-10964K	122	284	798	0.015	20	242
Flat Platform with Round Handrails	122	2,500	7,012	0.129	180	2,132
Flat Platform with Round Handrails	102	2,500	5,216	0.096	134	2,132
Alcatel-Lucent TD-RRH8x20-25	115.6	198	508	0.009	13	169
RFS APXVTM14-C-I20	113.8	159	397	0.007	10	135
RFS APXVSPP18-C-A20	113.2	171	424	0.008	11	146
Generic Flat Low Profile Platform	112	1,875	4,566	0.084	117	1,599
Generic Flat Low Profile Platform	95	1,875	3,478	0.064	89	1,599
Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	108.5	192	444	0.008	11	164
NAiS VIC-100	105	1	2	0.000	0	1
Alcatel-Lucent 1900 MHz 4X45 RRH	105	360	788	0.014	20	307
EMS DR65-19-00DPQ	105	384	841	0.016	22	327
Ericsson Radio 4449 - B13&B5	103.7	210	450	0.008	12	179
Ericsson Air6449 B41	103.5	312	667	0.012	17	266
Generic 6.7" x 10.7" TTA	102.4	30	62	0.001	2	25
Ericsson AIR32 B4A B2P	102.4	317	667	0.012	17	271
RFS APXVAARR24_43-U-NA20	102.2	384	803	0.015	21	327
Telewave ANT150D6-9	102	26	54	0.001	1	22
Telewave ANT150D6-9	72	26	31	0.001	1	22
Generic BTS	100.3	60	122	0.002	3	51
Commscope FE-16148-OVP-B12	95	15	28	0.000	1	13
Samsung B5/B13 RRH-BR04C	95	211	391	0.007	10	180
Samsung B2/B66A RRH-BR049	95	253	470	0.009	12	216
Samsung MT6407-77A	95	245	454	0.008	12	209
Amphenol Antel BXA-80063-6BF-EDIN-X	95	58	107	0.002	3	49
Generic Mount Reinforcement	95	200	371	0.007	10	171
JMA Wireless MX06FIT665-02	95	180	334	0.006	9	153
JMA Wireless MX06FRO640-02	95	140	260	0.005	7	119
		42,089	54,208	1.000	1,393	35,887

1.2D + 1.0Ev + 1.0Eh Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-49.34	-1.39	0.00	-141.73	0.00	141.73	3,249.22	951.93	4,702	3,663.92	0.00	0.00	0.02
5.00	-47.77	-1.39	0.00	-134.77	0.00	134.77	3,206.58	925.35	4,443	3,514.28	0.00	0.00	0.02
7.50	-46.52	-1.39	0.00	-131.29	0.00	131.29	3,184.22	912.06	4,316	3,439.36	0.00	0.00	0.02
7.50	-46.52	-1.39	0.00	-131.29	0.00	131.29	3,184.22	912.06	4,316	3,439.36	0.00	0.00	0.02
10.00	-44.06	-1.39	0.00	-127.81	0.00	127.81	3,161.17	898.77	4,191	3,364.41	0.01	-0.01	0.02
15.00	-41.63	-1.39	0.00	-120.85	0.00	120.85	3,113.00	872.18	3,947	3,214.56	0.02	-0.01	0.02
20.00	-41.59	-1.39	0.00	-113.90	0.00	113.90	3,062.07	845.60	3,710	3,064.99	0.03	-0.01	0.02
20.08	-40.05	-1.39	0.00	-113.79	0.00	113.79	3,061.23	845.17	3,706	3,062.60	0.03	-0.01	0.02
20.08	-40.05	-1.39	0.00	-113.79	0.00	113.79	3,061.23	845.17	3,706	3,062.60	0.03	-0.01	0.05
25.00	-38.71	-1.38	0.00	-106.97	0.00	106.97	3,008.37	819.02	3,481	2,915.97	0.05	-0.02	0.05
30.00	-37.44	-1.38	0.00	-100.05	0.00	100.05	2,951.91	792.43	3,258	2,767.76	0.07	-0.03	0.05
35.00	-36.20	-1.38	0.00	-93.13	0.00	93.13	2,892.69	765.85	3,043	2,620.63	0.11	-0.04	0.05
40.00	-35.00	-1.37	0.00	-86.23	0.00	86.23	2,830.70	739.26	2,836	2,474.83	0.16	-0.05	0.05
45.00	-34.61	-1.37	0.00	-79.36	0.00	79.36	2,765.95	712.68	2,636	2,330.63	0.22	-0.07	0.05

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
46.66	-33.37	-1.36	0.00	-77.08	0.00	77.08	2,743.85	703.85	2,571	2,283.15	0.25	-0.07	0.05
50.00	-32.74	-1.36	0.00	-72.54	0.00	72.54	2,698.44	686.10	2,443	2,188.28	0.30	-0.08	0.05
51.75	-32.47	-1.35	0.00	-70.17	0.00	70.17	2,674.16	676.79	2,377	2,138.95	0.33	-0.08	0.05
52.33	-31.67	-1.34	0.00	-69.38	0.00	69.38	1,970.68	546.80	1,939	1,594.53	0.34	-0.09	0.03
55.00	-30.19	-1.32	0.00	-65.80	0.00	65.80	1,948.33	535.44	1,860	1,543.50	0.39	-0.09	0.03
60.00	-29.10	-1.30	0.00	-59.21	0.00	59.21	1,904.35	514.18	1,715	1,448.35	0.49	-0.10	0.03
63.75	-28.61	-1.29	0.00	-54.34	0.00	54.34	1,869.55	498.23	1,610	1,377.48	0.57	-0.10	0.03
65.00	-28.13	-1.28	0.00	-52.73	0.00	52.73	1,857.61	492.91	1,576	1,353.97	0.60	-0.11	0.02
66.25	-27.06	-1.26	0.00	-51.13	0.00	51.13	1,845.49	487.59	1,542	1,330.53	0.62	-0.11	0.02
66.25	-27.06	-1.26	0.00	-51.13	0.00	51.13	1,845.49	487.59	1,542	1,330.53	0.62	-0.11	0.03
70.00	-26.50	-1.24	0.00	-46.42	0.00	46.42	1,808.10	471.64	1,443	1,260.63	0.71	-0.11	0.03
72.00	-25.64	-1.22	0.00	-43.93	0.00	43.93	1,787.53	463.14	1,391	1,223.64	0.76	-0.12	0.03
75.00	-25.29	-1.21	0.00	-40.26	0.00	40.26	1,755.83	450.38	1,316	1,168.58	0.83	-0.12	0.02
76.25	-24.66	-1.20	0.00	-38.75	0.00	38.75	1,742.33	445.06	1,285	1,145.80	0.86	-0.12	0.02
76.25	-24.66	-1.20	0.00	-38.75	0.00	38.75	1,742.33	445.06	1,285	1,145.80	0.86	-0.12	0.05
80.00	-23.83	-1.17	0.00	-34.26	0.00	34.26	1,700.80	429.11	1,194	1,078.09	0.96	-0.13	0.05
85.00	-23.03	-1.15	0.00	-28.38	0.00	28.38	1,643.00	407.84	1,079	989.43	1.10	-0.14	0.04
90.00	-22.72	-1.14	0.00	-22.63	0.00	22.63	1,582.44	386.58	969	902.85	1.26	-0.16	0.04
92.00	-22.08	-1.12	0.00	-20.34	0.00	20.34	1,557.45	378.07	927	868.86	1.33	-0.16	0.04
95.00	-18.11	-0.96	0.00	-16.97	0.00	16.97	1,519.12	365.31	866	818.61	1.43	-0.17	0.03
95.03	-17.30	-0.93	0.00	-16.94	0.00	16.94	1,518.73	365.18	865	818.11	1.43	-0.17	0.03
98.95	-17.17	-0.92	0.00	-13.31	0.00	13.31	1,018.61	265.95	612	533.96	1.58	-0.18	0.04
100.00	-17.14	-0.92	0.00	-12.35	0.00	12.35	1,010.56	262.60	596	523.02	1.62	-0.18	0.04
100.30	-16.87	-0.91	0.00	-12.07	0.00	12.07	1,008.24	261.64	592	519.90	1.63	-0.18	0.04
102.00	-13.69	-0.76	0.00	-10.52	0.00	10.52	994.89	256.22	568	502.30	1.70	-0.19	0.04
102.20	-13.19	-0.74	0.00	-10.37	0.00	10.37	993.29	255.58	565	500.24	1.71	-0.19	0.03
102.40	-12.63	-0.72	0.00	-10.22	0.00	10.22	991.70	254.94	562	498.18	1.71	-0.19	0.03
103.50	-12.22	-0.70	0.00	-9.43	0.00	9.43	982.84	251.44	547	486.88	1.76	-0.19	0.03
103.70	-11.81	-0.68	0.00	-9.30	0.00	9.30	981.21	250.80	544	484.83	1.77	-0.19	0.03
105.00	-10.57	-0.62	0.00	-8.42	0.00	8.42	970.54	246.65	526	471.57	1.82	-0.20	0.03
108.50	-10.21	-0.60	0.00	-6.25	0.00	6.25	940.89	235.49	480	436.30	1.96	-0.20	0.03
110.00	-10.05	-0.59	0.00	-5.35	0.00	5.35	927.77	230.70	460	421.40	2.03	-0.21	0.02
112.00	-7.61	-0.46	0.00	-4.17	0.00	4.17	909.88	224.32	435	401.76	2.12	-0.21	0.02
113.20	-7.35	-0.45	0.00	-3.62	0.00	3.62	898.94	220.49	420	390.09	2.17	-0.21	0.02
113.80	-7.07	-0.43	0.00	-3.35	0.00	3.35	893.41	218.58	413	384.30	2.20	-0.21	0.02
115.00	-7.02	-0.43	0.00	-2.83	0.00	2.83	882.23	214.75	399	372.78	2.25	-0.21	0.02
115.60	-6.49	-0.40	0.00	-2.57	0.00	2.57	876.57	212.84	392	367.06	2.28	-0.21	0.01
119.60	-6.06	-0.37	0.00	-0.98	0.00	0.98	837.89	200.08	346	329.63	2.46	-0.22	0.01
120.00	-5.92	-0.37	0.00	-0.83	0.00	0.83	833.92	198.80	342	325.96	2.48	-0.22	0.01
122.00	-1.61	-0.10	0.00	-0.10	0.00	0.10	813.82	192.42	320	307.80	2.57	-0.22	0.00
122.10	-1.50	-0.09	0.00	-0.09	0.00	0.09	812.81	192.10	319	306.90	2.57	-0.22	0.00
122.30	-1.13	-0.07	0.00	-0.07	0.00	0.07	810.53	191.46	317	305.01	2.58	-0.22	0.00
122.70	-1.04	-0.06	0.00	-0.04	0.00	0.04	805.12	190.19	313	300.94	2.60	-0.22	0.00
122.80	-0.90	-0.06	0.00	-0.03	0.00	0.03	803.77	189.87	312	299.92	2.60	-0.22	0.00
122.90	-0.52	-0.03	0.00	-0.03	0.00	0.03	802.42	189.55	311	298.91	2.61	-0.22	0.00
123.10	-0.39	-0.02	0.00	-0.02	0.00	0.02	799.72	188.91	309	296.89	2.62	-0.22	0.00
124.00	0.00	-0.02	0.00	0.00	0.00	0.00	787.57	186.04	299	287.89	2.66	-0.22	0.00

0.9D - 1.0Ev + 1.0Eh Seismic (Reduced DL)

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-33.72	-1.39	0.00	-140.32	0.00	140.32	3,249.22	951.93	4,702	3,663.92	0.00	0.00	0.02
5.00	-32.65	-1.39	0.00	-133.36	0.00	133.36	3,206.58	925.35	4,443	3,514.28	0.00	0.00	0.02
7.50	-31.80	-1.39	0.00	-129.88	0.00	129.88	3,184.22	912.06	4,316	3,439.36	0.00	0.00	0.02
7.50	-31.80	-1.39	0.00	-129.88	0.00	129.88	3,184.22	912.06	4,316	3,439.36	0.00	0.00	0.02
10.00	-30.12	-1.39	0.00	-126.40	0.00	126.40	3,161.17	898.77	4,191	3,364.41	0.01	-0.01	0.02
15.00	-28.46	-1.39	0.00	-119.45	0.00	119.45	3,113.00	872.18	3,947	3,214.56	0.02	-0.01	0.02
20.00	-28.43	-1.39	0.00	-112.52	0.00	112.52	3,062.07	845.60	3,710	3,064.99	0.03	-0.01	0.02
20.08	-27.38	-1.38	0.00	-112.41	0.00	112.41	3,061.23	845.17	3,706	3,062.60	0.03	-0.01	0.02
20.08	-27.38	-1.38	0.00	-112.41	0.00	112.41	3,061.23	845.17	3,706	3,062.60	0.03	-0.01	0.05
25.00	-26.46	-1.38	0.00	-105.61	0.00	105.61	3,008.37	819.02	3,481	2,915.97	0.05	-0.02	0.05
30.00	-25.59	-1.38	0.00	-98.71	0.00	98.71	2,951.91	792.43	3,258	2,767.76	0.07	-0.03	0.04
35.00	-24.75	-1.37	0.00	-91.83	0.00	91.83	2,892.69	765.85	3,043	2,620.63	0.11	-0.04	0.04
40.00	-23.92	-1.36	0.00	-84.99	0.00	84.99	2,830.70	739.26	2,836	2,474.83	0.16	-0.05	0.04
45.00	-23.66	-1.36	0.00	-78.18	0.00	78.18	2,765.95	712.68	2,636	2,330.63	0.22	-0.07	0.04
46.66	-22.81	-1.35	0.00	-75.92	0.00	75.92	2,743.85	703.85	2,571	2,283.15	0.25	-0.07	0.04

ASSET: 210744, Spring Hill Lane CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: OAA767892_C4_06

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
50.00	-22.38	-1.34	0.00	-71.42	0.00	71.42	2,698.44	686.10	2,443	2,188.28	0.30	-0.08	0.04
51.75	-22.19	-1.34	0.00	-69.07	0.00	69.07	2,674.16	676.79	2,377	2,138.95	0.33	-0.08	0.04
52.33	-21.65	-1.33	0.00	-68.30	0.00	68.30	1,970.68	546.80	1,939	1,594.53	0.34	-0.08	0.03
55.00	-20.64	-1.30	0.00	-64.76	0.00	64.76	1,948.33	535.44	1,860	1,543.50	0.39	-0.09	0.03
60.00	-19.89	-1.28	0.00	-58.25	0.00	58.25	1,904.35	514.18	1,715	1,448.35	0.48	-0.10	0.03
63.75	-19.56	-1.27	0.00	-53.44	0.00	53.44	1,869.55	498.23	1,610	1,377.48	0.56	-0.10	0.03
65.00	-19.22	-1.26	0.00	-51.85	0.00	51.85	1,857.61	492.91	1,576	1,353.97	0.59	-0.10	0.02
66.25	-18.50	-1.24	0.00	-50.27	0.00	50.27	1,845.49	487.59	1,542	1,330.53	0.62	-0.11	0.02
66.25	-18.50	-1.24	0.00	-50.27	0.00	50.27	1,845.49	487.59	1,542	1,330.53	0.62	-0.11	0.03
70.00	-18.12	-1.23	0.00	-45.62	0.00	45.62	1,808.10	471.64	1,443	1,260.63	0.70	-0.11	0.02
72.00	-17.52	-1.21	0.00	-43.17	0.00	43.17	1,787.53	463.14	1,391	1,223.64	0.75	-0.11	0.02
75.00	-17.29	-1.20	0.00	-39.55	0.00	39.55	1,755.83	450.38	1,316	1,168.58	0.82	-0.12	0.02
76.25	-16.85	-1.18	0.00	-38.06	0.00	38.06	1,742.33	445.06	1,285	1,145.80	0.85	-0.12	0.02
76.25	-16.85	-1.18	0.00	-38.06	0.00	38.06	1,742.33	445.06	1,285	1,145.80	0.85	-0.12	0.04
80.00	-16.29	-1.16	0.00	-33.63	0.00	33.63	1,700.80	429.11	1,194	1,078.09	0.95	-0.13	0.04
85.00	-15.74	-1.13	0.00	-27.85	0.00	27.85	1,643.00	407.84	1,079	989.43	1.09	-0.14	0.04
90.00	-15.53	-1.12	0.00	-22.19	0.00	22.19	1,582.44	386.58	969	902.85	1.24	-0.15	0.03
92.00	-15.09	-1.10	0.00	-19.94	0.00	19.94	1,557.45	378.07	927	868.86	1.31	-0.16	0.03
95.00	-12.38	-0.94	0.00	-16.64	0.00	16.64	1,519.12	365.31	866	818.61	1.41	-0.17	0.03
95.03	-11.82	-0.91	0.00	-16.62	0.00	16.62	1,518.73	365.18	865	818.11	1.41	-0.17	0.03
98.95	-11.74	-0.90	0.00	-13.05	0.00	13.05	1,018.61	265.95	612	533.96	1.56	-0.18	0.04
100.00	-11.71	-0.90	0.00	-12.10	0.00	12.10	1,010.56	262.60	596	523.02	1.60	-0.18	0.04
100.30	-11.53	-0.89	0.00	-11.83	0.00	11.83	1,008.24	261.64	592	519.90	1.61	-0.18	0.03
102.00	-9.36	-0.75	0.00	-10.31	0.00	10.31	994.89	256.22	568	502.30	1.67	-0.19	0.03
102.20	-9.02	-0.73	0.00	-10.17	0.00	10.17	993.29	255.58	565	500.24	1.68	-0.19	0.03
102.40	-8.63	-0.70	0.00	-10.02	0.00	10.02	991.70	254.94	562	498.18	1.69	-0.19	0.03
103.50	-8.35	-0.68	0.00	-9.25	0.00	9.25	982.84	251.44	547	486.88	1.73	-0.19	0.03
103.70	-8.07	-0.66	0.00	-9.11	0.00	9.11	981.21	250.80	544	484.83	1.74	-0.19	0.03
105.00	-7.23	-0.61	0.00	-8.25	0.00	8.25	970.54	246.65	526	471.57	1.79	-0.19	0.03
108.50	-6.98	-0.59	0.00	-6.13	0.00	6.13	940.89	235.49	480	436.30	1.94	-0.20	0.02
110.00	-6.87	-0.58	0.00	-5.25	0.00	5.25	927.77	230.70	460	421.40	2.00	-0.20	0.02
112.00	-5.20	-0.45	0.00	-4.09	0.00	4.09	909.88	224.32	435	401.76	2.09	-0.21	0.02
113.20	-5.03	-0.44	0.00	-3.55	0.00	3.55	898.94	220.49	420	390.09	2.14	-0.21	0.02
113.80	-4.83	-0.42	0.00	-3.28	0.00	3.28	893.41	218.58	413	384.30	2.16	-0.21	0.01
115.00	-4.80	-0.42	0.00	-2.77	0.00	2.77	882.23	214.75	399	372.78	2.22	-0.21	0.01
115.60	-4.43	-0.39	0.00	-2.52	0.00	2.52	876.57	212.84	392	367.06	2.24	-0.21	0.01
119.60	-4.14	-0.37	0.00	-0.96	0.00	0.96	837.89	200.08	346	329.63	2.42	-0.21	0.01
120.00	-4.05	-0.36	0.00	-0.81	0.00	0.81	833.92	198.80	342	325.96	2.44	-0.21	0.01
122.00	-1.10	-0.10	0.00	-0.10	0.00	0.10	813.82	192.42	320	307.80	2.53	-0.21	0.00
122.10	-1.02	-0.09	0.00	-0.09	0.00	0.09	812.81	192.10	319	306.90	2.53	-0.21	0.00
122.30	-0.77	-0.07	0.00	-0.07	0.00	0.07	810.53	191.46	317	305.01	2.54	-0.21	0.00
122.70	-0.71	-0.06	0.00	-0.04	0.00	0.04	805.12	190.19	313	300.94	2.56	-0.21	0.00
122.80	-0.62	-0.06	0.00	-0.03	0.00	0.03	803.77	189.87	312	299.92	2.56	-0.21	0.00
122.90	-0.36	-0.03	0.00	-0.03	0.00	0.03	802.42	189.55	311	298.91	2.57	-0.21	0.00
123.10	-0.26	-0.02	0.00	-0.02	0.00	0.02	799.72	188.91	309	296.89	2.58	-0.21	0.00
124.00	0.00	-0.02	0.00	0.00	0.00	0.00	787.57	186.04	299	287.89	2.62	-0.21	0.00

ASSET: 210744, Spring Hill Lane CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: OAA767892_C4_06

ANALYSIS SUMMARY

Load Case	Reactions						Max Usage	
	Shear FX	Shear FZ	Axial FY	Moment MX	Moment MY	Moment MZ	Elev (ft)	Interaction Ratio
	(kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)		
1.2D + 1.0W	41.24	0.00	50.47	0.00	0.00	3798.54	20.08	0.99
0.9D + 1.0W	41.23	0.00	37.85	0.00	0.00	3769.14	20.08	0.98
1.2D + 1.0Di + 1.0Wi	10.69	0.00	67.53	0.00	0.00	987.70	20.08	0.27
1.2D + 1.0Ev + 1.0Eh	1.39	0.00	49.34	0.00	0.00	141.73	20.08	0.05
0.9D - 1.0Ev + 1.0Eh	1.39	0.00	33.72	0.00	0.00	140.32	20.08	0.05
1.0D + 1.0W	10.39	0.00	42.09	0.00	0.00	953.14	20.08	0.26

ADDITIONAL STEEL SUMMARY

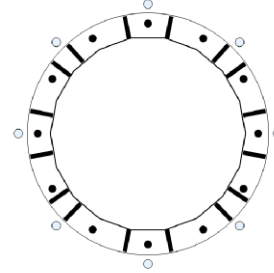
Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors				Max member			
			VQ/I	Shear Applied (kips)	Shear (phiVn) (kips)	Ratio	Pu (kip)	PhiPn (kip)	Ratio	
0.00	7.50	PL PL 1.25" x 6"	0.0	0.0	25.3	0	172.0	438.8	0.3919	
0.00	20.08	SOL #20 All Thread Bar	172.1	5.2	16.8	0.3071	172.6	183.3	0.9421	
51.75	66.25	PL PL 6.5 x 1.25	571.5	17.1	38.3	0.448	322.7	403.6	0.7996	
63.75	76.25	PL PL 6.5 x 1.25	640.6	11.5	25.3	0.4563	290.3	349.6	0.8304	

Elev From (ft)	Elev To (ft)	Member	Upper Termination Connectors				Lower Termination Connectors					
			MQ/I	phiVn (kips)	Num Reqd	Num Actual	Ratio	MQ/I (kips)	phiVn (kip)	Num Reqd	Num Actual	Ratio
0.00	7.50	PL PL 1.25" x 6"	163.0361	25.27	7	17	0.3795	0	25.27	0	0	0.0000
0.00	20.08	SOL #20 All Thread Bar	161.8212	12	14	16	0.8428	0	12	0	0	0.0000
51.75	66.25	PL PL 6.5 x 1.25	192.3846	38.27	6	11	0.4570	294.4861	38.27	8	11	0.6995
63.75	76.25	PL PL 6.5 x 1.25	248.9797	25.27	10	14	0.7038	198.5215	25.27	8	14	0.5611

BASE PLATE ANALYSIS @ 0 FT

PLATE PARAMETERS (ID# 16766)

Diameter:	69	in
Shape:	Round	
Thickness:	1.75	in
Grade:	A572-60	
Yield Strength:	60	ksi
Tensile Strength:	75	ksi
Rod Detail Type:	d	
Clear Distance	5	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Elastic	
Neutral Axis:	150	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	Fy (ksi)	Fu (ksi)	Spacing (in)	Offset (°)
Original [ID# 17160]	Radial	12	2.25	63	A615-75	75	100	-	-

DYWIDAG BAR PARAMETERS

Quantity	Bar Size	Bar Diameter (in)	Fy (ksi)	Fu (ksi)	Bracket Type	Bracket Offset (in)	Circle (in)	Offset (°)
8 [ID# 1090]	#20	2.5	80	100	W8x21	8.28	74.06	-

ANCHOR ROD GEOMETRY AND APPLIED LOADS --- ORIGINAL (12) 2.25"Ø [ID 17160]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in ⁴)	Axial Load (k)	Shear Load (k)
1	0.524	27.28	15.75	-26.143	2220.518	-90.94	2.76
2	1.047	15.75	27.28	-30.188	2960.411	-105.29	0.00
3	1.571	0.00	31.50	-26.143	2220.518	-90.94	2.76
4	2.094	-15.75	27.28	-15.094	740.732	-51.75	4.78
5	2.618	-27.28	15.75	0.000	0.839	1.79	5.52
6	3.142	-31.50	0.00	15.094	740.732	55.33	4.78
7	3.665	-27.28	-15.75	26.143	2220.518	94.52	2.76
8	4.189	-15.75	-27.28	30.188	2960.411	108.87	0.00
9	4.712	0.00	-31.50	26.143	2220.518	94.52	2.76
10	5.236	15.75	-27.28	15.094	740.732	55.33	4.78
11	5.760	27.28	-15.75	0.000	0.839	1.79	5.52
12	6.283	31.50	0.00	-15.094	740.732	-51.75	4.78

DYWIDAG BAR GEOMETRY AND APPLIED LOADS --- (8) #20 [ID 1090]

Position	Radians	X (in)	Y (in)	Moment Arm (in)	Inertia (in ⁴)	Axial Load (k)
1	0.785	26.18	26.18	-35.768	6281.993	-166.98
2	1.571	0.00	37.03	-32.069	5050.141	-149.34
3	2.356	-26.18	26.18	-9.584	452.807	-42.09
4	3.142	-37.03	0.00	18.515	1684.659	91.94
5	3.927	-26.18	-26.18	35.768	6281.993	174.23
6	4.712	0.00	-37.03	32.069	5050.141	156.58
7	5.498	26.18	-26.18	9.584	452.807	49.34
8	6.283	37.03	0.00	-18.515	1684.659	-84.69

STIFFENER GEOMETRY AND APPLIED LOADS

Position	Radians	Moment Arm (in)	Inertia (in ⁴)	Axial Load (k)	Shear Load (k)
1	0.196	-20.275	2675.745	-36.71	2.21
2	0.628	-28.092	5110.324	-51.23	1.19
3	0.838	-30.078	5854.452	-54.92	0.61
4	1.374	-29.118	5488.524	-53.13	0.94
5	1.767	-23.119	3470.527	-41.99	1.93
6	2.304	-9.502	610.060	-16.70	2.79
7	2.496	-3.747	119.042	-6.01	2.91
8	2.945	9.884	657.749	19.30	2.78
9	3.338	20.275	2675.745	38.60	2.21
10	3.752	27.869	5030.122	52.70	1.24
11	3.944	29.837	5761.296	56.36	0.71
12	4.516	29.118	5488.524	55.02	0.94
13	4.909	23.119	3470.527	43.88	1.93
14	5.480	8.476	491.229	16.69	2.82
15	5.690	2.145	58.236	4.93	2.93
16	6.087	-9.884	657.749	-17.41	2.78

REACTION DISTRIBUTION

Component	ID	Moment Mu (k-ft)	Axial Load Pu (k)	Shear Vu (k)	Moment Factor
Pole	55"Ø x 0.3125" (18 Sides)	1617.2	50.47	41.24	0.426
Bolt Group	Original (12) 2.25"Ø	1617.2	-	41.24	0.426
Dywidag Group	(8) #20	2181.4	-	-	0.574
Stiffeners	(16) 17"H x 6.5"W x 1.25"T	1139.3	-	29.05	0.300
TOTALS		3798.54	50.47	41.24	

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	55"Ø x 0.3125" (18 Sides)	53.4172	-	-	19971.23	-
Bolt Group	Original (12) 2.25"Ø	3.9761	3.2477	0.8393	17767.50	4.5
Dywidag Group	(8) #20	4.9087	4.9087	1.9175	26939.20	-
Stiffeners	(16) 17"H x 6.5"W x 1.25"T	7.1875	6.4688	114.4271	47619.85	-

ASSET: 210744, Spring Hill Lane CT
 CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
 ENG NO: OAA767892

EXTERNAL BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter: 55.12 in
 Point-to-Point Diameter: 55.98 in
 Flat Width: 9.720 in
 Flat Radians: 0.349 rad

PLATE PROPERTIES

Neutral Axis: 150 °
 Bend Line Lower Limit: 3.812 rad
 Bend Line Upper Limit: 4.566 rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment Mu (k-in)	Moment Capacity φMn (k-in)	Ratio
Flat	36.998	8.60	34.908	285.8	1885.0	0.152
Corner	35.699	5.99	31.918	239.5	1723.6	0.139
Circumferential	37.110	10.12	36.157	239.5	1952.5	0.123

ELASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load Pu (k)	Applied Shear Load Vu (k)	Compressive Capacity φPn (k)	Ratio	Interaction
Original	12	2.25	108.9	0.0	243.6	0.447	0.200

DYWIDAG BAR ANALYSIS

Group Quantity	Bar Size	Bar Circle (in)	Applied Axial Load Pu (k)	Compressive Capacity φPn (k)	Ratio
8	#20	74.06	174.2	368.2	0.473

BASE PLATE STIFFENER ANALYSIS

Quantity:	16	
Height:	17	in
Width:	6.5	in
Effective Width:	6.500	in
Thickness:	1.25	in
Notch:	0.75	in
Grade:	A572-65	
Yield Strength:	65	ksi
Tensile Strength:	80	ksi
Horizontal Weld Type:	Bevel + Fillet	
Horizontal Weld Fillet Size:	0.25	in
Horizontal Weld Bevel Size:	0.625	in
Vertical Weld Fillet Size:	0.25	in
Weld Strength:	80	ksi
Electrode Coefficient:	1.030	

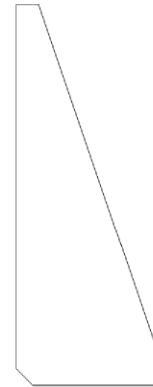


PLATE COMPRESSION

Radius of Gyration:	0.361	in ³
kl/r:	28.27	
4.71 √(E/Fy):	99.49	
Buckling Stress, Fe:	358.21	ksi
Crit. Buckling Stress, Fcr:	314.15	ksi
Applied Compression, Pu:	56.36	k
Compressive Capacity, φPn:	2032.15	k
Pu/φPn:	0.014	

PLATE TENSION

Gross Cross Section:	7.1875	in ²
Net Cross Section:	6.4688	in ²
Applied Tension, Tu:	54.92	k
Tensile Capacity, φTn:	388.13	k
Tu/φTn:	0.071	

VERTICAL WELD TO POLE

Vertical Eccentricity Ratio, a=e _x /l:	0.127	
Spacing Ratio, k:	0.074	
Weld Coefficient, C:	3.720	
Applied Compression, Pu:	56.36	k
Compressive Capacity, φPn:	195.41	k
Horizontal Eccentricity Ratio, a=e _x /l:	0.333	
Weld Coefficient, C:	2.940	
Applied Shear, Vu	0.61	k
Shear Capacity, φVn:	154.44	k
Pu/φPn + Vu/φVn:	0.292	

HORIZONTAL WELD TO PLATE

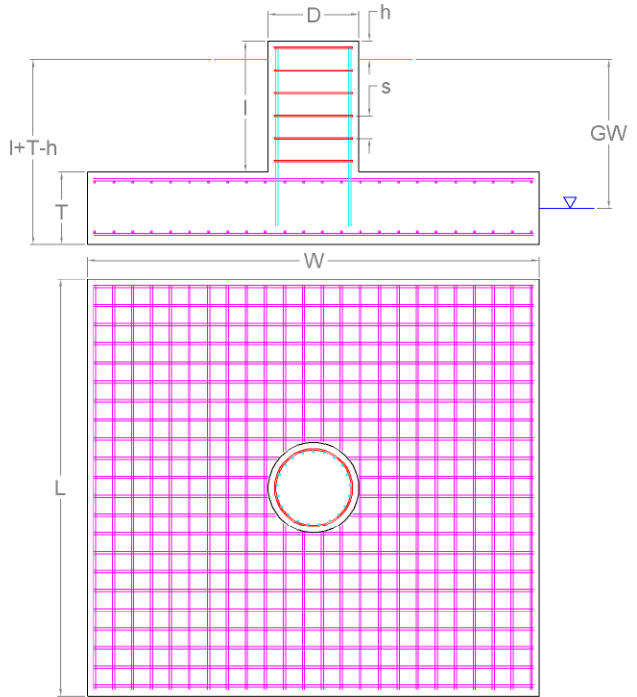
Horizontal Eccentricity Ratio, a=e _x /l:	0.167	
Spacing Ratio, k:	0.192	
Weld Coefficient, C:	3.940	
Effective Fillet Size:	0.673	in
Applied Compression, Pu:	56.36	k
Compressive Capacity, φPn:	213.08	k
Vertical Eccentricity Ratio, a=e _x /l:	0.436	
Weld Coefficient, C:	2.670	
Applied Shear, Vu	0.61	k
Shear Capacity, φVn:	144.40	k
Pu/φPn + Vu/φVn:	0.269	

Monolithic Mat Foundation Analysis (ANSI/TIA-222-H)

Foundation & Tower Parameters			
Ignore Mat Rebar?		N	
Ignore Pier Rebar?		N	
Foundation has Pier(s)?		Y	
Pier Shape		Square	
Pier Diameter	<i>D</i>	7	ft
Pier Height Above Ground	<i>h</i>	1	ft
Pier Length	<i>l</i>	1	ft
Mat Base Depth	<i>l+T-h</i>	4.5	ft
Mat Length	<i>L</i>	25	ft
Mat Width	<i>W</i>	25	ft
Mat Thickness	<i>T</i>	4.5	ft
Unit Weight of Concrete		150	pcf
Tower Eccentricity	ecc	0	ft
Tower Face Width	FW	4.58	ft
Tower Leg Count		1	

Reactions			
Moment, M_u		3,798.54	k-ft
Shear, V_u		41.24	k
Axial, P_u		50.47	k
Uplift, T_u		0	k
Tower Weight		50.47	k
Tower Dead Load Factor		0.9	

Soil Parameters			
Water Table Depth [BGL]	<i>GW</i>	7	ft
Unit Weight of Soil		130	pcf
Unit Weight of Soil [Submerged]		67.6	pcf
Shear Friction Coefficient		0.5	
Ultimate Bearing Pressure		30,000	psf
Bearing Pressure Type		Net	
Conical Failure Angle		15	°
Capacity Increase (Transient Loads)		1.00	
Soil Strength Reduction Factor, ϕ_s		0.75	
Dead Load Factor		1.2	



Soil Capacities			
Design Moment, M_u		4,025.36	k-ft
Nominal Moment Capacity, $\phi_m M_n$		5,525.45	k-ft
$M_u / \phi_s M_n$		72.9%	
Net Bearing Pressure		2,526	k
Nominal Bearing Capacity, $\phi_b P_n$		22,939	k
Bearing Pressure Controlling Load Direction		Diagonal to Pad Edge	
$P_u / \phi_s P_n$		11.0%	
Ultimate Friction Resistance		235.64	k
Ultimate Passive Pressure Resistance		32.91	k
Nominal Shear Capacity, $\phi_s V_n$		201.41	k
$V_u / \phi_s V_n$		20.0%	



Mat Reinforcement Parameters

Concrete Compressive Strength, f'_c	4,000	psi
Mat Rebar Quantity [Lower]	28	
Mat Rebar Size # [Lower]	9	
Mat Single Rebar Area [Lower]	1	in ²
Mat Rebar Quantity [Upper]	28	
Mat Rebar Size # [Upper]	9	
Mat Single Rebar Area [Upper]	1	in ²
Mat Rebar Yield Strength, F_y	60	ksi
Mat Clear Cover	3	in
Bending Reduction Factor, ϕ_B	0.9	
Shear Reduction Factor, ϕ_V	0.75	
Compression Reduction Factor, ϕ_C	0.65	
Steel Elastic Modulus	29,000	ksi

Mat Reinforcement Capacities

Compression Zone Factor, β_1	0.85	
Lower Reinforcement Spacing	10.87	in
Upper Reinforcement Spacing	10.87	in
One Way Design Shear, V_u	194.96	k
One Way Shear Capacity, ϕV_c	1,138.01	k
One Way Shear Controlling Load Direction	Diagonal to Pad Edge	
$V_u / \phi V_c$	17.1%	
Punching Design Shear Stress, v_u	17.4	psi
Punching Shear Capacity, $\phi_c V_n$	189.74	psi
$v_u / \phi_c V_n$	9.2%	
Moment Transfer Effective Flexural Width, f	20.5	in
Neutral Axis Depth	1.7	in
Moment Transfer Flexural Capacity, $\phi M_{sc,f}$	62,735.67	k-in
$\gamma_f M_{sc} / \phi M_{sc,f}$	0.0%	
Flexure Due to Soil Pressure, M_u	1,698.5	k-ft
Lower Steel Mat Moment Capacity, ϕM_n	6,196.05	k-ft
Flexural Steel Controlling Load Direction	Parallel to Pad Edge	
$M_u / \phi M_n$	27.4%	
Flexure Due to Uplift, M_u	683.44	k-ft
Upper Steel Mat Moment Capacity, ϕM_n	6,196.05	k-ft
$M_u / \phi M_n$	11.0%	

Pier Reinforcement Parameters

Concrete Compressive Strength (f'_c)	4,000	psi
Pier Rebar Quantity	24	
Pier Rebar Size #	9	
Pier Single Rebar Area	1	in ²
Pier Rebar Yield Strength (F_y)	60	ksi
Tie Rebar Size #	4	
Tie Rebar Area (Single)	0.2	in ²
Tie Rebar Spacing	s 6	in
Tie Rebar Yield Strength (F_y)	60	ksi
Rebar Cage Diameter	75.88	in

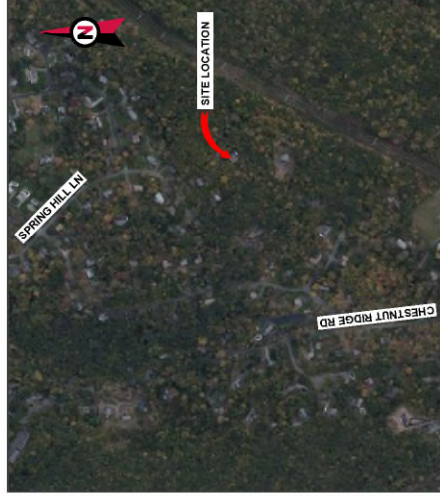
Pier Reinforcement Capacities

Design Moment (M_u)	3,839.78	k-ft
Nominal Moment Capacity ($\phi_B M_n$)	4,012.52	k-ft
$M_u / \phi_B M_n$	95.7%	
Design Shear (V_u)	41.24	k
Nominal Shear Capacity ($\phi_V V_n$)	873.38	k
$V_u / \phi_V V_n$	4.7%	
Design Compression (P_u)	50.47	k
Nominal Compression Capacity ($\phi_P P_n$)	12,463.78	k
$P_u / \phi_P P_n$	0.4%	
Pier Reinforcement Ratio	0	-
$M_u / \phi_B M_n + T_u / \phi_T T_n$	95.7%	





VICINITY MAP



LOCATION MAP



AMERICAN TOWER®

SITE NAME: SPRING HILL LANE CT
 SITE NUMBER: 210744
 ATC PROJECT NUMBER: OAA767892_C6_04
 SITE ADDRESS: 38 SPRING HILL LANE
 BETHEL, CT 06801

124 FT MONOPOLE MODIFICATIONS

PROJECT TEAM	PROJECT DESCRIPTION	SHEET	SHEET TITLE	REV.	
TOWER OWNER AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 ENGINEERED BY ATC TOWER SERVICES 3500 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 CARRIER INFORMATION CARRIER: VERIZON WIRELESS CARRIER SITE NAME: BETHEL_CT CARRIER SITE NUMBER: 469283	THE PROJECT DEPICTED IN THESE PLANS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER OAA767892_C3_01 DATED 1/15/21. SATISFACTORY COMPLETION OF THE WORK INDICATED IN THESE PLANS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED. PROJECT NOTE THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER C.F.R. § 1.6100 (6)(7).	G-002	IBC GENERAL NOTES	0	
	COMPLIANCE CODE ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. ANSITIMEA STRUCTURAL STANDARDS (222-H EDITION) 2. INTERNATIONAL BUILDING CODE (2015 IBC) 3. CONNECTICUT STATE BUILDING CODE (2015)		G-003	SPECIAL INSPECTION CHECKLIST	0
			G-004	BILL OF MATERIALS	0
		C-101	DETAILED SITE PLAN	0	
		S-201	MODIFICATION PROFILE	0	
		S-501	FOUNDATION DETAILS	0	
	S-502	DYWIDAG REINFORCEMENT INSTALLATION DETAILS	0		
	S-503	DYWIDAG REINFORCEMENT INSTALLATION DETAILS (CONTD)	0		
	S-504	#20 STEP BOLT BRACKET INSTALLATION DETAILS	0		
	S-505	FLAT PLATE REINFORCEMENT INSTALLATION DETAILS	0		
	S-506	FLAT PLATE STEP BOLT BRACKET FABRICATION & INSTALLATION DETAILS	0		
	Z-501	FLAT PLATE FABRICATION DETAILS	0		

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 COA: PEC-0011553

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REV.	DESCRIPTION	BY	DATE
1/A	FIRST ISSUE	JA	04/05/22

ATC SITE NUMBER
 210744
 ATC SITE NAME
 SPRING HILL LANE CT
 CONNECTICUT
 SITE ADDRESS
 38 SPRING HILL LANE
 BETHEL, CT 06801



Authorized by "EOR"
 14 Apr 2022 11:11:52
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DRAWN BY	TA
APPROVED BY	THP
DATE DRAWN	04/05/22
ATC JOB NO.	OAA767892_C6_04

COVER

SHEET NUMBER	G-001	REVISION	0
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GENERAL

- ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
- ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
- ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY PER ANSITIA-322 AND ANS/MASSE A10-46, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
- CONTRACTORS PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

- ALL DETAILS, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
- ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B895.
- ALL BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
- FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GRIND SMOOTH.
- ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED, SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVALUME COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYURETHANE CA-9 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYURETHANE 400 WRAP IS NOT ESSENTIAL.
- CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACER/REINFORCE ONE (1) BOLT MEMBER AT A TIME.
- ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

PAINT

- AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 707/460-1L.

WELDING

- ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.
- ALL WELDS SHALL BE INSPECTED VISUALLY IF DIRECTED BY ENGINEER OF RECORD. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1. REPAIR ALL WELDS AS NECESSARY.
- INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER AND/OR BASE METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- IN CASES WHERE BASE METAL GRADE IS UNKNOWN, ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES. ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX ELECTRODES, UNLESS NOTED OTHERWISE.
- PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL WELDED SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVALUME COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

- STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH AISC SPECIFICATIONS.
- FLANGE BOLTS SHALL BE INSTALLED AND TIGHTENED USING DIRECT TENSION INDICATING (DTI) SOURTHER WASHERS. DTI SOURTHER WASHERS ARE TO BE INSTALLED AND ORIENTED/TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- IN LIEU OF USING DTI SOURTHER WASHERS, FLANGE BOLTS MAY BE TIGHTENED USING AISC /RCS2 "TURN-OF-THE-NUT" METHOD, PENDING APPROVAL BY THE ENGINEER OF RECORD (EOR). TIGHTEN FLANGE BOLTS USING THE CHART BELOW.

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS	+1/2" TURN BEYOND SNUG TIGHT
1/2"	+1/2 TURN BEYOND SNUG TIGHT
3/4"	+1/2 TURN BEYOND SNUG TIGHT
7/8"	+1/2 TURN BEYOND SNUG TIGHT
1"	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	+1/2 TURN BEYOND SNUG TIGHT
BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS	+1/2 TURN BEYOND SNUG TIGHT
1/2"	+1/2 TURN BEYOND SNUG TIGHT
3/4"	+1/2 TURN BEYOND SNUG TIGHT
7/8"	+1/2 TURN BEYOND SNUG TIGHT
1"	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	+1/2 TURN BEYOND SNUG TIGHT

- SPRUE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:
FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

- 8.2.1 TURN-OF-NUT PRETENSIONING
BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

- ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

- ALL BOLTED HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUPLICATE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHT CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

APPLICABLE CODES AND STANDARDS

- ANSI/AIA STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222 EDITION.
- 2018 CONNECTICUT STATE BUILDING CODE.
- 2015 INTERNATIONAL BUILDING CODE.
- ACI 318 - AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, REFERENCE LATEST APPROPRIATE EDITION TO MATCH LOCAL AND/OR INTERNATIONAL BUILDING CODE(S) LISTED ABOVE.
- CSI, CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- AISC, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
- AWS, AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

- A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2015, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
 - STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
 - HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
- THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2015, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.



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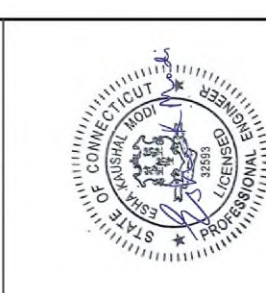
REV	DESCRIPTION	BY	DATE
1	FIRST ISSUE	JA	04/05/22

ATC SITE NUMBER
210744

ATC SITE NAME
SPRING HILL LANE CT

CONNECTION
CONNECTICUT

SITE ADDRESS
38 SPRING HILL LANE
BETHEL, CT 06801



Authorized by "EOR"
14 Apr 2022 11:11:52

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DRAWN BY: TA
APPROVED BY: THP
DATE DRAWN: 04/05/22
ATC JOB NO: DAA767R02_CR_04

IBC GENERAL NOTES

SHEET NUMBER	REVISION
G-002	0

MODIFICATION INSPECTION NOTES

THE SPECIAL INSPECTION (SI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE STATE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR AND THE INSPECTOR BEGIN COMMUNICATION AND COORDINATION AS SOON AS A PO IS RECEIVED FROM AMERICAN TOWER CORPORATION (ATC). IT IS EXPECTED THAT EACH PARTY WILL PROACTIVELY REACH OUT TO THE OTHER PARTY IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR AMERICAN TOWER POINT OF CONTACT.

SPECIAL INSPECTOR

- THE SPECIAL INSPECTOR IS REQUIRED TO CONTACT THE GENERAL CONTRACTOR AS SOON AS RECEIVING A PO FROM ATC. UPON RECEIVING A PO FROM ATC THE SPECIAL INSPECTOR AT A MINIMUM MUST:
 - REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
 - WORK WITH THE GENERAL CONTRACTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
 - ANY CONCERNS WITH THE SCOPE OF WORK OR PROJECT COMMITMENT MUST BE RELAYED TO THE ATC POINT OF CONTACT IMMEDIATELY.

THE SPECIAL INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR INSPECTION AND TEST REPORTS, REVIEWING THESE REPORTS FOR ADEQUACY, CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE SI REPORT TO AMERICAN TOWER CORPORATION.

GENERAL CONTRACTOR

THE GENERAL CONTRACTOR IS REQUIRED TO CONTACT THE SI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURKEY PROJECT TO, AT A MINIMUM:

- WORK WITH THE SI TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.

- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SI CHECKLIST.



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REV	DESCRIPTION	BY	DATE
1	FIRST ISSUE	TA	04/05/22

ATC SITE NUMBER: 210744
ATC SITE NAME: CONNECTICUT
SITE ADDRESS: 38 SPRING HILL LANE
BETHEL, CT 06801



Authorized by "EOR"
14 Apr 2022 11:11:52
DRAWN BY: TA
APPROVED BY: THP
DATE DRAWN: 04/05/22
ATC JOB NO: 0AAT67R02_CR_04

SPECIAL INSPECTION CHECKLIST
SHEET NUMBER: G-003
REVISION: 0

SPECIAL INSPECTION CHECKLIST

INSPECTION DOCUMENT	DESCRIPTION	INSPECTION TESTING REQUIRED	RESPONSIBILITY	SI REVIEW REQUIRED		INSPECTION FREQUENCY	
				PRE CX	DURING CX	POST CX	PERIODIC
SPECIAL INSPECTION FIELD WORK & REPORT	DOCUMENTATION AND SITE VISIT CONDUCTED BY AN ATC APPROVED SPECIAL INSPECTOR AS REQUIRED BY ATC AND OTHER AUTHORITIES HAVING JURISDICTION. INSPECTION PARAMETERS TO FOLLOW ATC'S STANDARD SPECIFICATION FOR WIRELESS TOWER SITES.	✓	SI	✓			
ENGINEERING ASSEMBLY DRAWINGS	GC SHALL SUBMIT DRAWINGS TO SI FOR INCLUSION IN SI REPORT						
FABRICATED MATERIAL VERIFICATION & INSPECTION	MTR AND OR MILL CERTIFICATIONS FOR SUPPLIED MATERIALS GC SHALL SUPPLY SI WITH REPORTS TO BE INCLUDED IN SI REPORT WHEN REQUIRED BY ATC	✓	GC	✓			
CERTIFIED WELD INSPECTION	INSPECTION AND REPORT OF STRUCTURAL WELDING PERFORMED DURING PROJECT COMPLETED BY A CWI AND INCLUDED WITHIN SI REPORT	✓	SI				
FOUNDATION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF FOUNDATION EXCAVATION, REBAR PLACEMENT, CASINGS/SHORING/FORMING PLACEMENT AND ANCHOR TEMPLATE AND ANCHOR PLACEMENT - TO BE SI APPROVED PRIOR TO CONCRETE POUR AND DOCUMENTED IN THE SI REPORT	✓	GC/TA				
ANCHOR, ROCK ANCHOR OR HELICAL PULL-OUT TEST	PULL TESTING OF INSTALLED ANCHORS TO BE COMPLETED AND DOCUMENTED IN SI REPORT		GC/TA				
CONCRETE INSPECTION & VERIFICATION	CONCRETE MIX DESIGN, SLUMP TEST, COMPRESSIVE TESTING AND SAMPLE GATHERING TECHNIQUES ARE TO BE PROVIDED (INCLUDING BUT NOT LIMITED TO) WITHIN SI REPORT. CONCRETE PLACEMENT AS REQUIRED BY THE DESIGN DOCUMENTS (INSPECTION FREQUENCY IS MARKED CONTINUOUS)	✓	GC/TA				
DOWNDRA PLACEMENT/ANCHOR BOLT EMBEDMENT - EPOXY/GROUT INSTALL	ANCHOR/EMBEDMENT, HOLE SIZE, EPOXY/GROUT TYPE, INSTALLATION TEMPERATURE AND INSTALLATION SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT	✓	GC/TA				
BASE PLATE GROUT INSPECTION & VERIFICATION	BASE PLATE GROUTING TYPE AND PLACEMENT SHALL BE CONFIRMED BY THE SI AND INCLUDED IN THE SI REPORT		GC/TA				
EARTHWORK INSPECTION & VERIFICATION	EXCAVATION, FILL, SLOPE, GRADE AND OTHER EARTHWORK REQUIREMENTS PER PLANS SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT		GC/TA				
COMPACTION VERIFICATION	CONTRACTOR SHALL PROVIDE AN INDEPENDENT THIRD PARTY CERTIFIED INSPECTION WHICH PROVIDES TEST RESULTS FOR COMPACTION TEST OF SOILS IN PLACE TO ASTM STANDARDS		GC/TA				
GROUND TESTING & VERIFICATION	GC SHALL PROVIDE DOCUMENTATION SHOWING THAT THE GROUNDING SYSTEM SHALL HAVE A MEASURED RESISTANCE TO THE GROUND OF NOT MORE THAN THE RECOMMENDED OHMS PER THE ATC CONSTRUCTION SPECIFICATION UNDER SECTION 2.15 THIS DOCUMENTATION MUST BE AN INDEPENDENT CERTIFICATION		GC				
STEEL CONSTRUCTION INSPECTION & VERIFICATION	VISUAL OBSERVATION AND APPROVAL OF STEEL CONSTRUCTION TO BE PERFORMED BY THE SI. INSPECTION TO INCLUDE VERIFICATION OF NEW CONSTRUCTION OR MODIFICATION OF EXISTING CONSTRUCTION PER ENGINEERED PLANS. DETAILED VERIFICATION SHALL BE INCLUDED IN SI REPORT.	✓	SI	✓			✓
ON-SITE COLD GALVANIZING VERIFICATION	SI SHALL VERIFY WITH GC ALL COLD GALVANIZATION TYPE AND APPLICATION AND INCLUDE SUMMARY IN SI REPORT	✓	GC	✓			✓
GUY WIRE TENSIONING & TOWER ALIGNMENT REPORT	GC SHALL PROVIDE SI EVIDENCE OF PROPER GUY TENSIONING AND TOWER PLUMB PER PLANS. SI SHALL VERIFY AND INCLUDE PLUMB AND TENSION REPORTING IN SI REPORT		GC				
GC AS-BUILT DRAWINGS WITH CONSTRUCTION REDLINES	GC SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO SI FOR APPROVAL/REVIEW AND INCLUSION IN SI REPORT	✓	GC	✓			
SI AS-BUILT DRAWINGS WITH INSPECTION REDLINES (AS REQUIRED)	SI SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS WITHIN SI REPORT	✓	SI	✓			
IA INSPECTION	SI SHALL COMPLETE IA INSPECTION AND PROVIDE SEPARATE IA INSPECTION DOCUMENTATION TO ATC CM		SI				
PHOTOGRAPHS	PHOTOGRAPHIC EVIDENCE OF SPECIAL INSPECTION, ON-SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE SI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN SI REPORT.	✓	GC/TA	✓			

NOTE: SPECIAL INSPECTIONS ARE INTENDED TO BE A COLLABORATIVE EFFORT BETWEEN GC AND SI. WHENEVER POSSIBLE GC IS TO PROVIDE SI WITH PHOTOGRAPHIC OR OTHER ACCEPTABLE EVIDENCE OF PROPER INSTALLATION IF PERIODIC INSPECTION FREQUENCY IS ACCEPTABLE. THE GC AND SI SHALL WORK TO COMPLETE EVIDENCE OF PROPER CONSTRUCTION AND LIMIT THE NUMBER OF SI SITE VISITS REQUIRED.

TABLE KEY:
SI - ATC APPROVED SPECIAL INSPECTOR
GC - GENERAL CONTRACTOR
IA - 3RD PARTY TESTING AGENCY
CX - CONSTRUCTION
CM - CONSTRUCTION MANAGER
ATC - AMERICAN TOWER CORPORATION

BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES
8	8	DYD-20-A-TR-30	#20 DYWIDAG REINFORCEMENT MATERIAL & HARDWARE					
			#20 ALL THREAD ROD 30'	30'-0"	S-502	501.0	4008	GALVANIZED
64	64	W6X21		1'-8"	S-502	27.6	1766	#20 T-BRACKET
16	16	W621-8U-S	TERMINATION WELDMENT	2'-5 1/2"	S-502	61.2	979	#20 T-BRACKET
269	282	UB-580-3125	U-BOLT ASSEMBLIES FOR #20 ROD	----	----	----	----	GALVANIZED
208	218	NG-0625-0875-A490	NEXGEN2 BLIND BOLT ASSEMBL, M20 W/ SPRING SLEEVE, A490	----	----	----	----	ALLFASTENERS - 2NG2060
13	18	#20SB	STEP BOLT WELDMENT	0'-7 1/4"	S-504	2.5	45	
1	1		STUD MOUNT CABLE GUIDE - 1/2"Ø	----	----	----	----	ALLFASTENERS - 14AFRIM12
1	1		ROUND LEG INTERMEDIATE BRACKET	----	----	----	----	ALLFASTENERS - 14AFRHC12
			FLAT PLATE MATERIAL & HARDWARE					
3	3	210744-1	PL 1 1/4" X 6"	20'-0"	S-505, Z-501	535.9	1608	
108	113	NG-1438-1875-A490	NEXGEN2 BLIND BOLT ASSEMBL, M20 W/ SPRING SLEEVE, A490	----	----	----	----	ALLFASTENERS - 2NG2048
16	21	FP88	FLAT PLATE STEP BOLT WELDMENT	0'-7 1/4"	S-504	2.0	42	



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REV	DESCRIPTION	BY	DATE
1/A	FIRST ISSUE	JA	04/05/22

ATC-SITE NUMBER
210744
ATC-SITE NAME
SPRING HILL LANE CT
CONNECTICUT
SITE ADDRESS
38 SPRING HILL LANE
BETHEL, CT 06801



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APPROVED BY	THP
DATE DRAWN	04/05/22
ATC JOB NO.	0AA767FRZ_CR_04

BILL OF MATERIALS

SHEET NUMBER	G-004	REVISION	0
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CONNECTICUT

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 BETHEL, CT 06801

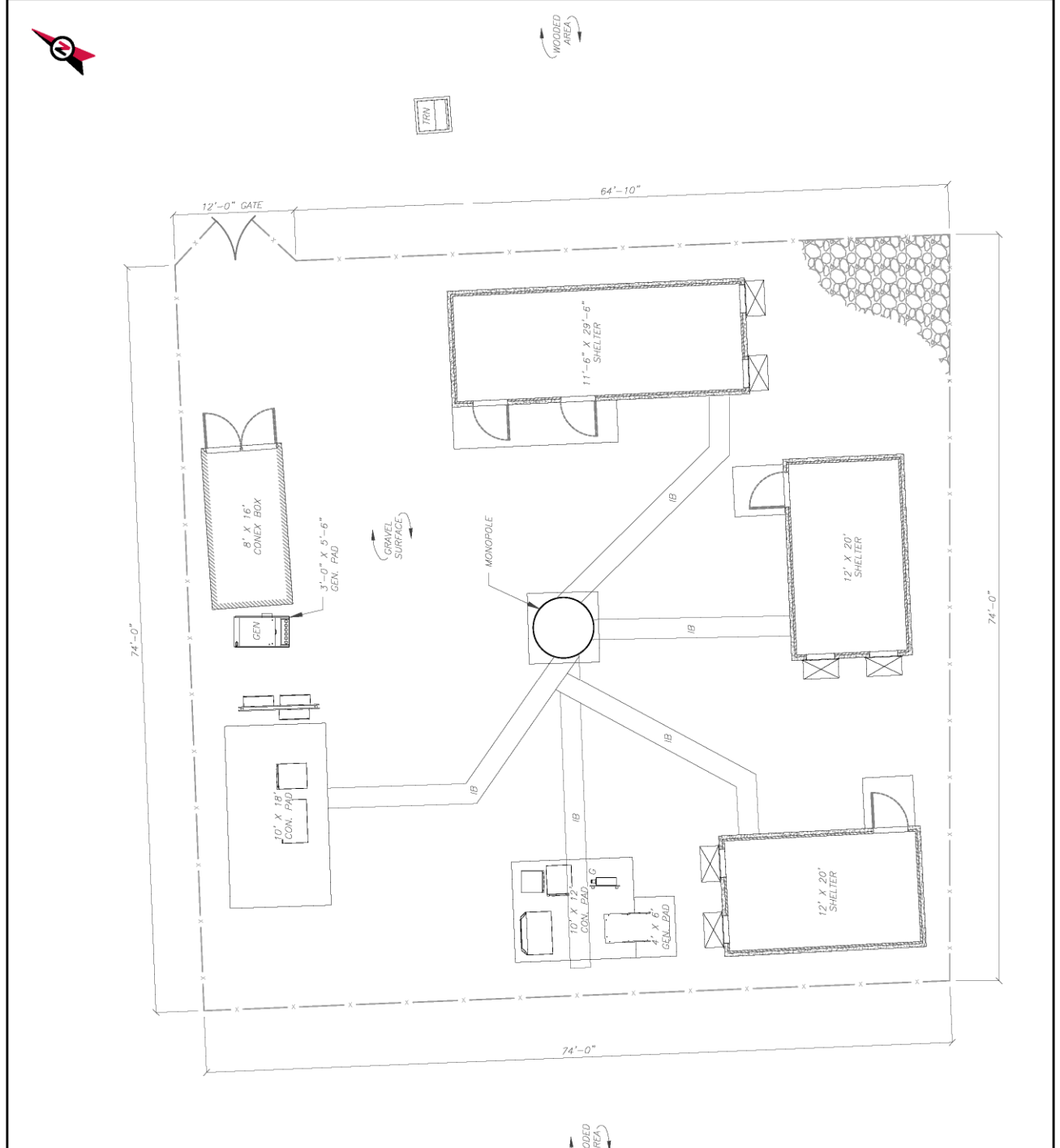


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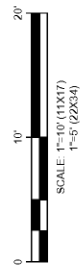
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DATE DRAWN	04/05/22
ATC JOB NO.	0AA767R2_CR_04

DETAILED SITE PLAN

SHEET NUMBER	C-101
REVISION	0



LEGEND	
⊗	GROUNDING TEST WELL
AV/AV	AIR VENT
ATS	AUTOMATIC TRANSFER SWITCH
C	CABINET
CS	COAX SHROUD
CSC	CELL SITE CABINET
D	DISCONNECT
F	FIBER OPTICAL
G	GENERATOR
GEN	GENERATOR RECEPTACLE
H	HANDHOLE
HLL	HANDHOLE WALL CELL
HSM	HYDROGEN STORAGE MATERIAL
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
LPG	LIGHTING PROPANE GAS
M	METER
M	METER
OHV	OVERHEAD WIRE
P	POWER
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
---	PROPERTY LINE
---	LEASE AREA
---	EASEMENT
---	WOOD FENCE
---	WIRE FENCE
---	CHAINLINK FENCE
---	ROAD (DIRT)
---	ROAD (STONE)
---	ROAD (PAVED)



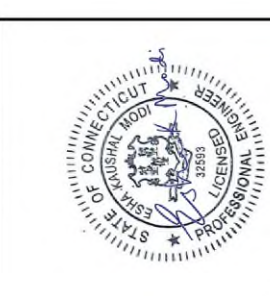


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210744
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 SITE ADDRESS:
 38 SPRING HILL LANE
 BETHEL, CT 06801

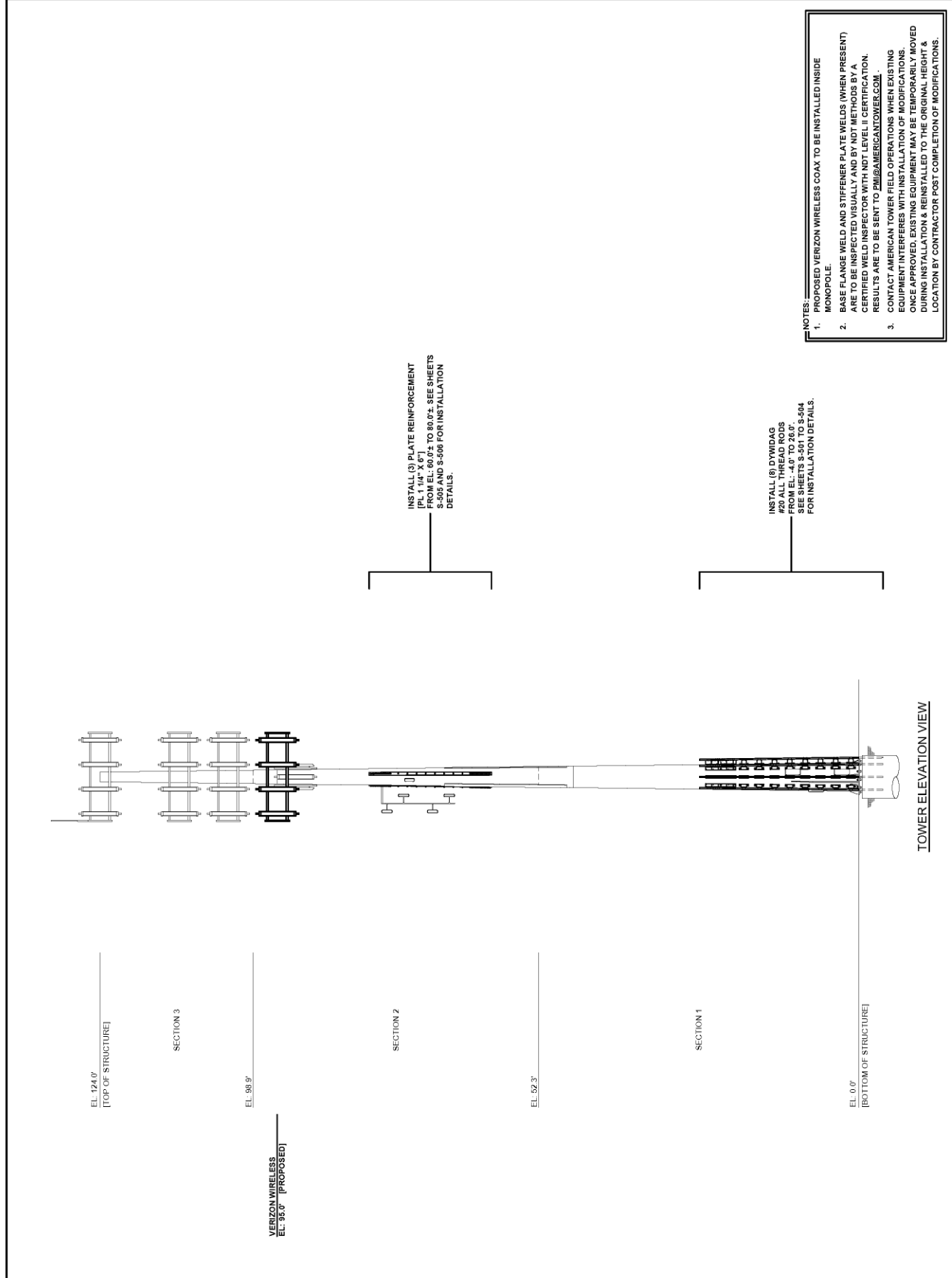


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DATE DRAWN	04/05/22
ATC JOB NO.	0AA76789Z_C0_04

MODIFICATION PROFILE

SHEET NUMBER	S-201
REVISION	0



- NOTES:
1. PROPOSED VERIZON WIRELESS COAX TO BE INSTALLED INSIDE MONOPOLE.
 2. BASE FLANGE WELD AND STIFFENER PLATE WELDS (WHEN PRESENT) ARE TO BE INSPECTED VISUALLY AND BY NOT METHODS BY A CERTIFIED WELD INSPECTOR WITH NDT LEVEL II CERTIFICATION. RESULTS ARE TO BE SENT TO PMI@AMERICANTOWER.COM.
 3. CONTACT AMERICAN TOWER FIELD OPERATIONS WHEN EXISTING EQUIPMENT INTERFERES WITH INSTALLATION OF MODIFICATIONS. ONCE APPROVED, EXISTING EQUIPMENT MAY BE TEMPORARILY MOVED DURING INSTALLATION & REINSTALLED TO THE ORIGINAL HEIGHT & LOCATION BY CONTRACTOR POST COMPLETION OF MODIFICATIONS.



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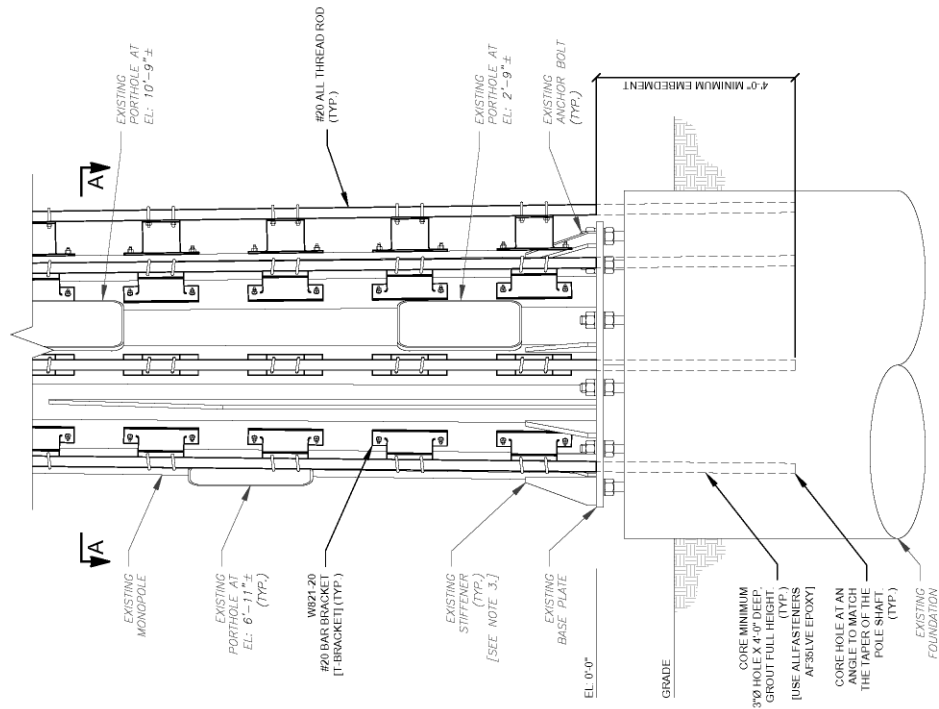
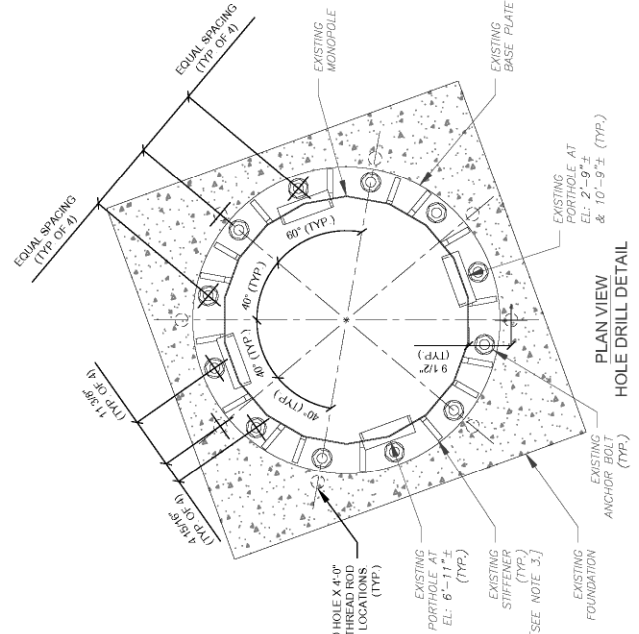
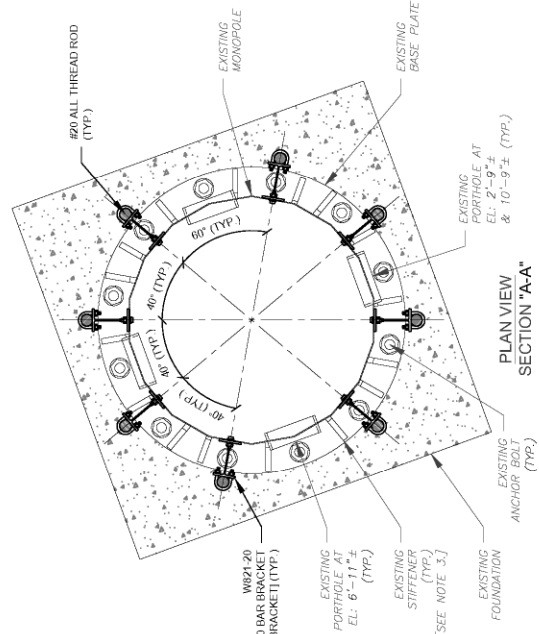
ATC-SITE NUMBER
210744
 ATC-SITE NAME
SPRING HILL LANE CT
 CONNECTICUT
 SITE ADDRESS:
 38 SPRING HILL LANE
 BETHEL, CT 06801



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DATE DRAWN	04/05/22
ATC JOB NO.	0AA767R02_CR_04

FOUNDATION DETAILS	
SHEET NUMBER	S-501
REVISION	0



NOTE

1. CONTRACTOR TO CONTACT ENGINEER OF RECORD IF EXISTING FOUNDATION IS NOT AS SHOWN.
2. CONTRACTOR TO REMOVE EXISTING STIFFENERS AS NECESSARY TO ALLOW FOR #20 ALL THREAD ROD INSTALLATION.



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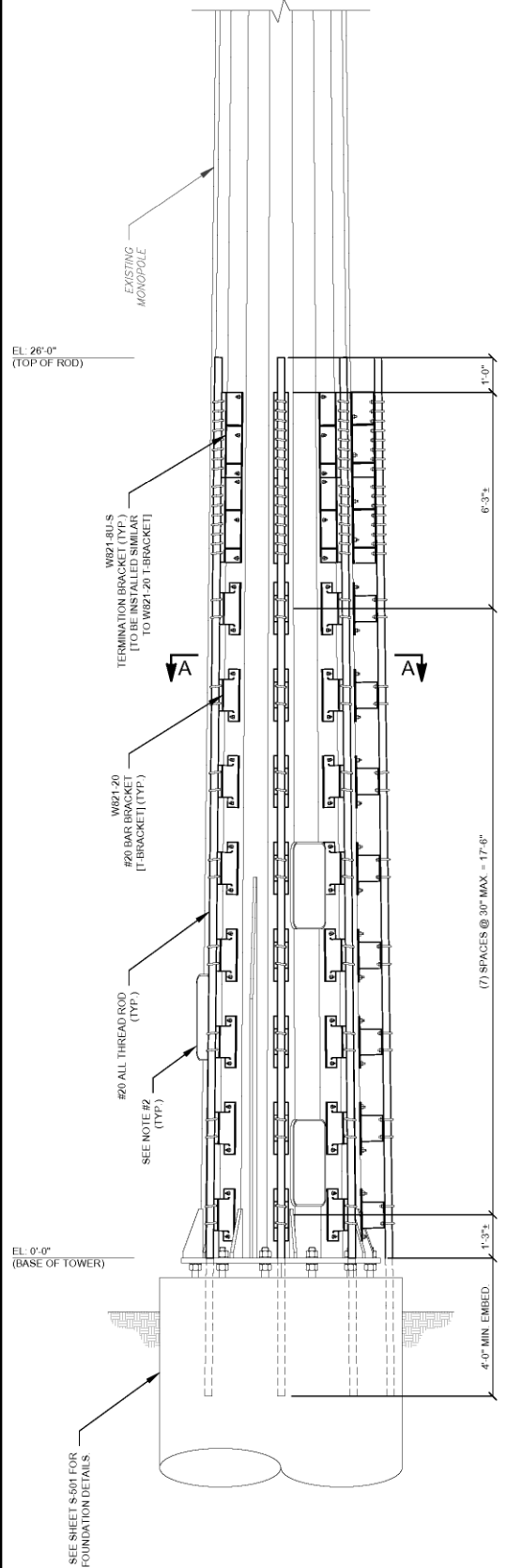


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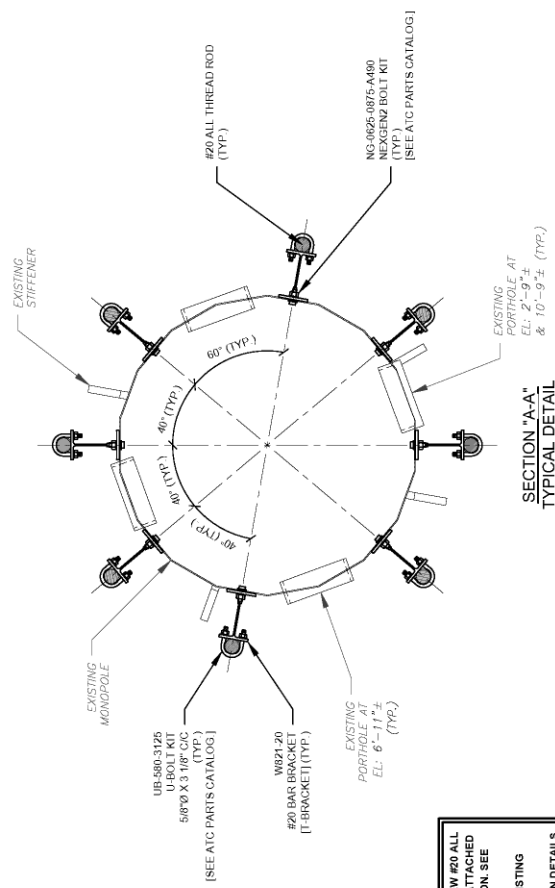
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DYWIDAG REINFORCEMENT
 INSTALLATION DETAILS

SHEET NUMBER	S-502
REVISION	0



ELEVATION VIEW
 #20 BAR BRACKET SPACING DETAIL



SECTION "A-A"
 TYPICAL DETAIL

- NOTES:
1. REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH THE NEW #20 ALL THREAD ROD REINFORCEMENTS. THE NEW STEP BOLTS SHALL BE ATTACHED TO THE #20 ALL THREAD RODS IN THE SAME APPROXIMATE LOCATION. SEE SHEET S-504 FOR INSTALLATION DETAILS.
 2. PLACE A BRACKET (W821-20) DIRECTLY ABOVE AND BELOW ANY EXISTING PORTHOLE AS REQUIRED.
 3. SEE SHEET S-503 FOR #20 ALL THREAD ROD BRACKET INSTALLATION DETAILS.
 4. NG-0938-1438-A490 NEXGENZ BOLT KITS ARE SUPPLIED AS REQUIRED FOR BAR BRACKET CONNECTIONS THAT FALL WITHIN SLIP JOINT LOCATIONS.

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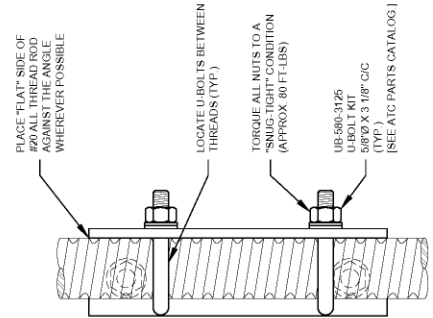
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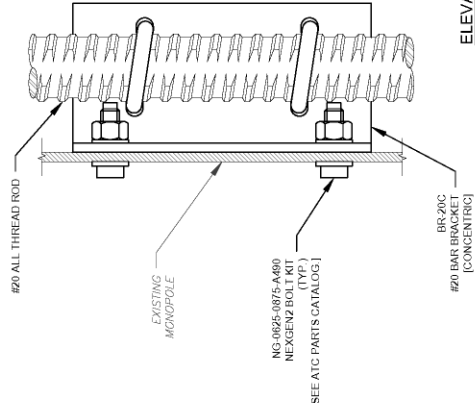
DYWIDAG REINFORCEMENT
 INSTALLATION DETAILS
 (CONTD)

SHEET NUMBER
S-503

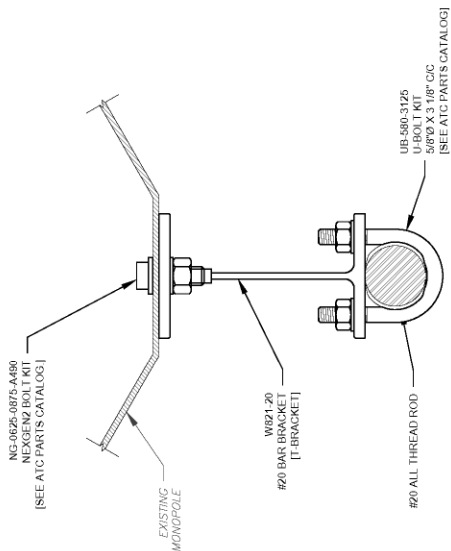
REVISION
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ELEVATION VIEW
 #20 BAR BRACKET ORIENTATION
 [CONCENTRIC]



PLAN VIEW
 #20 BAR BRACKET ORIENTATION
 [W8X21 T-BRACKET]



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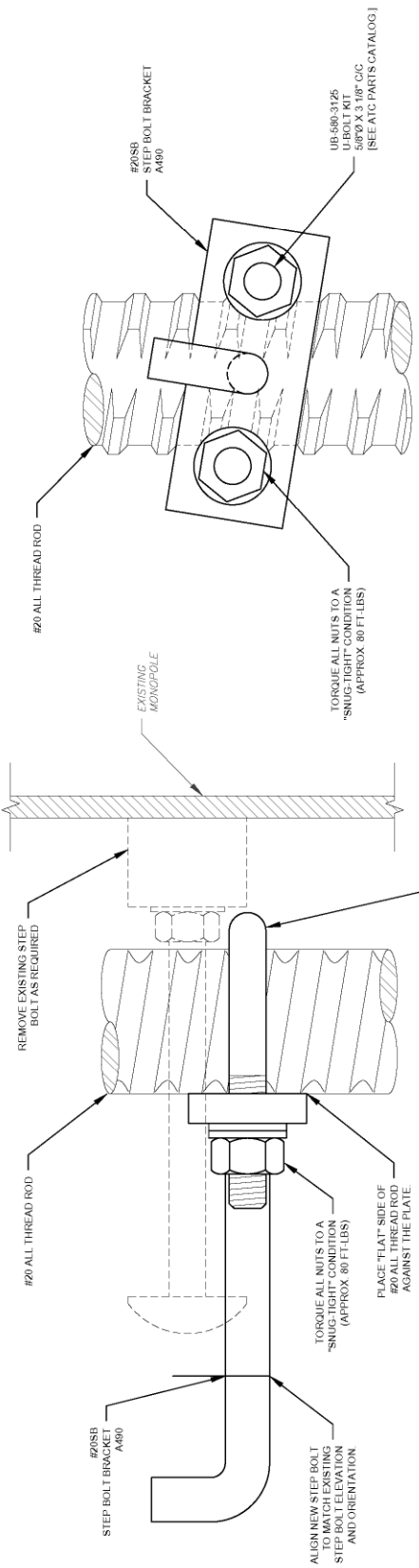


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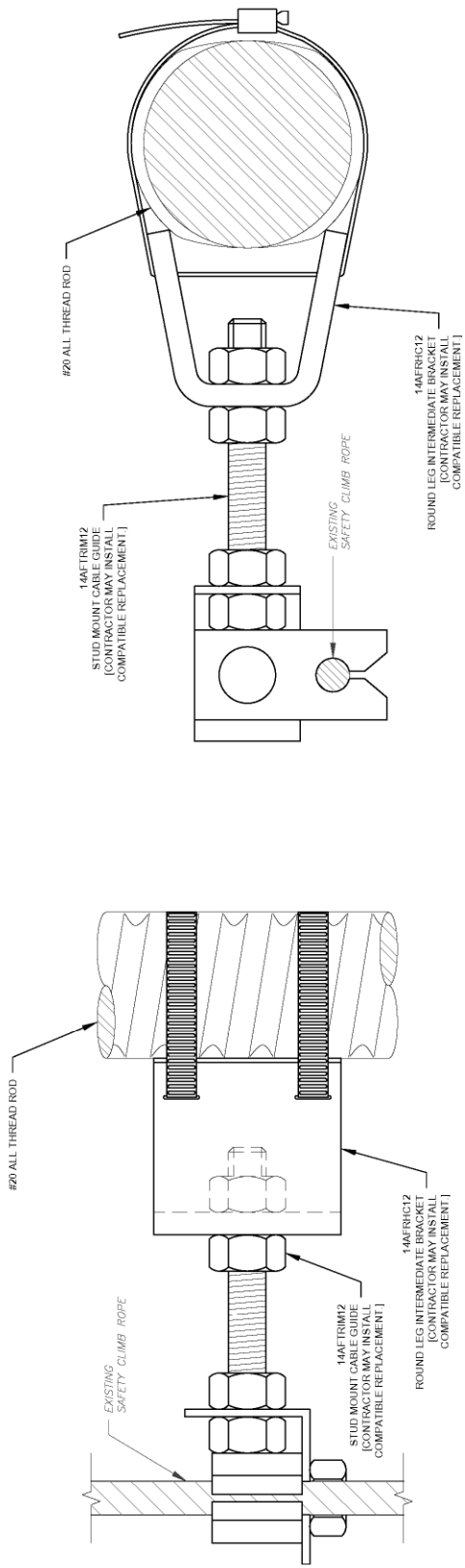
#20 STEP BOLT BRACKET
 INSTALLATION DETAILS

SHEET NUMBER	S-504
REVISION	0



#20SB INSTALLATION DETAILS
 FRONT VIEW

#20SB INSTALLATION DETAILS
 SIDE VIEW



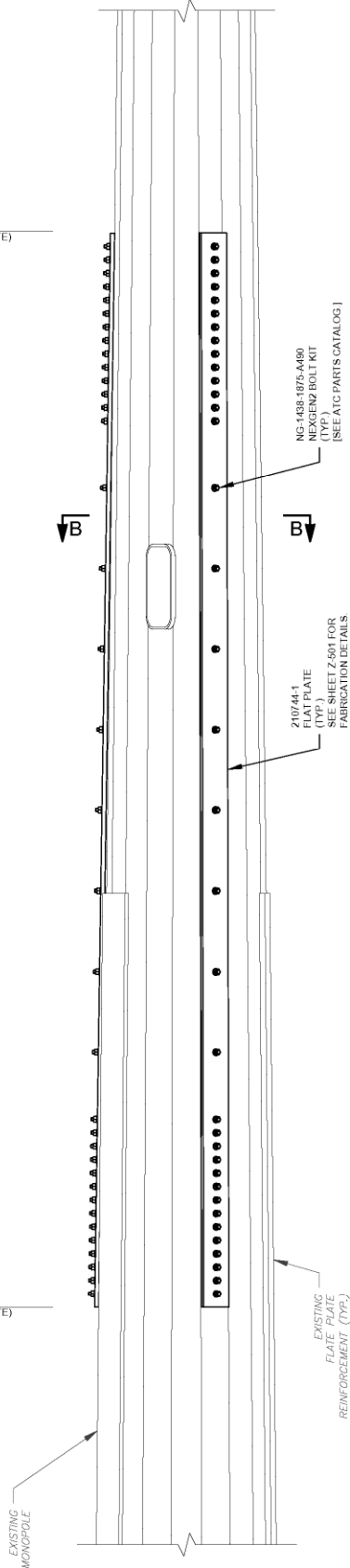
#20 STEP BOLT BRACKET
 INSTALLATION DETAILS

#20SB INSTALLATION DETAILS
 SIDE VIEW

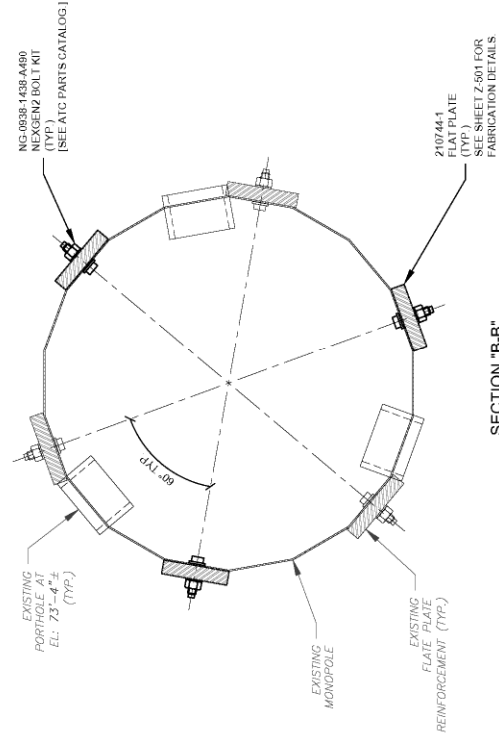
- NOTES:
- STEP PEG SPACING IS NOT TO EXCEED 15" MAX. STAGGERED OR 30" MAX. ON ANY SINGLE SIDE OF THE DYWIDAG BAR.
 - SAFETY CLIMB CABLE GUIDE SPACING IS NOT TO EXCEED 20" MAX.

EL: 80'-0"
(TOP OF PLATE)

EL: 60'-0"
(BTM OF PLATE)



ELEVATION VIEW
#20 BAR BRACKET SPACING DETAIL



SECTION "B-B"
TYPICAL DETAIL

- NOTES:
1. REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH THE NEW FLAT PLATE REINFORCEMENTS. THE NEW STEP BOLTS SHALL BE ATTACHED TO THE FLAT PLATE IN THE SAME APPROXIMATE LOCATION. SEE SHEET S-506 FOR INSTALLATION DETAILS.
 2. NG-1438-1875-A490 NEXGEN2 BOLT KITS ARE SUPPLIED AS REQUIRED FOR FLAT PLATE STEP BOLT WELDMENT INSTALLATION.

AMERICAN TOWER
A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CANTON, MA 01921
PHONE: (978) 488-8112
COA: PECJ001553

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REV	DESCRIPTION	BY	DATE
1/A	FIRST ISSUE	JA	04/05/22

ATC SITE NUMBER
210744

ATC SITE NAME
SPRING HILL LANE CT

CONNECTICUT

SITE ADDRESS:
38 SPRING HILL LANE
BETHEL, CT 06801



Authorized by "EOR"
14 Apr 2022 11:11:54
cosign

DRAWN BY	TA
APPROVED BY	THP
DATE DRAWN	04/05/22
ATC JOB NO.	0AA7678RZ_CR_04

FLAT PLATE REINFORCEMENT
INSTALLATION DETAILS

SHEET NUMBER	S-505
REVISION	0

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REV	DESCRIPTION	BY	DATE
TA	FIRST ISSUE	TA	04/05/22

ATC SITE NUMBER
210744
 ATC SITE NAME
SPRING HILL LANE CT
CONNECTICUT
 SITE ADDRESS:
 38 SPRING HILL LANE
 BETHEL, CT 06801

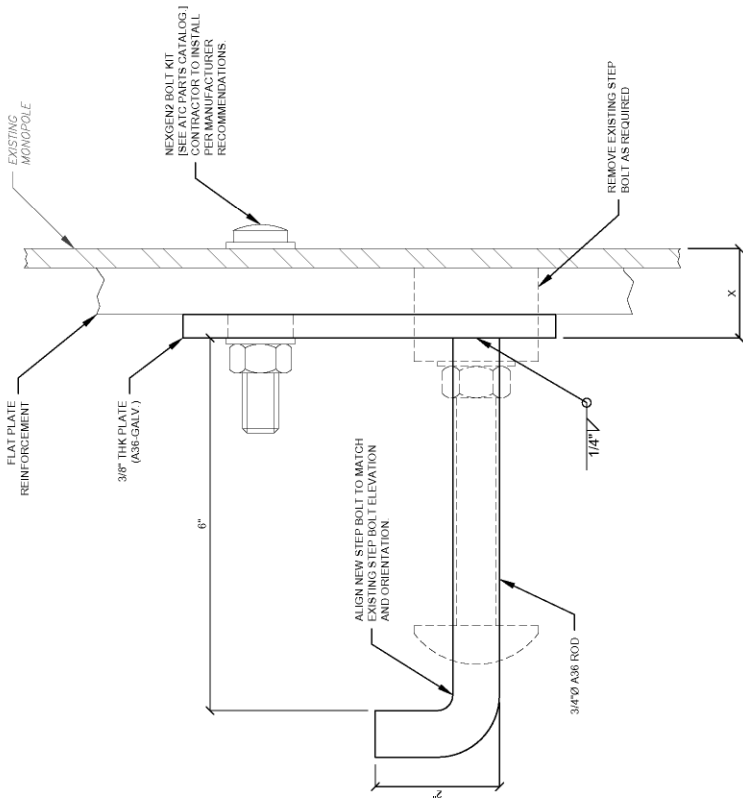


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DRAWN BY	TA
APPROVED BY	THP
DATE DRAWN	04/05/22
ATC JOB NO.	0A76789Z_CR_04

**FLAT PLATE STEP BOLT
 BRACKET FABRICATION &
 INSTALLATION DETAILS**

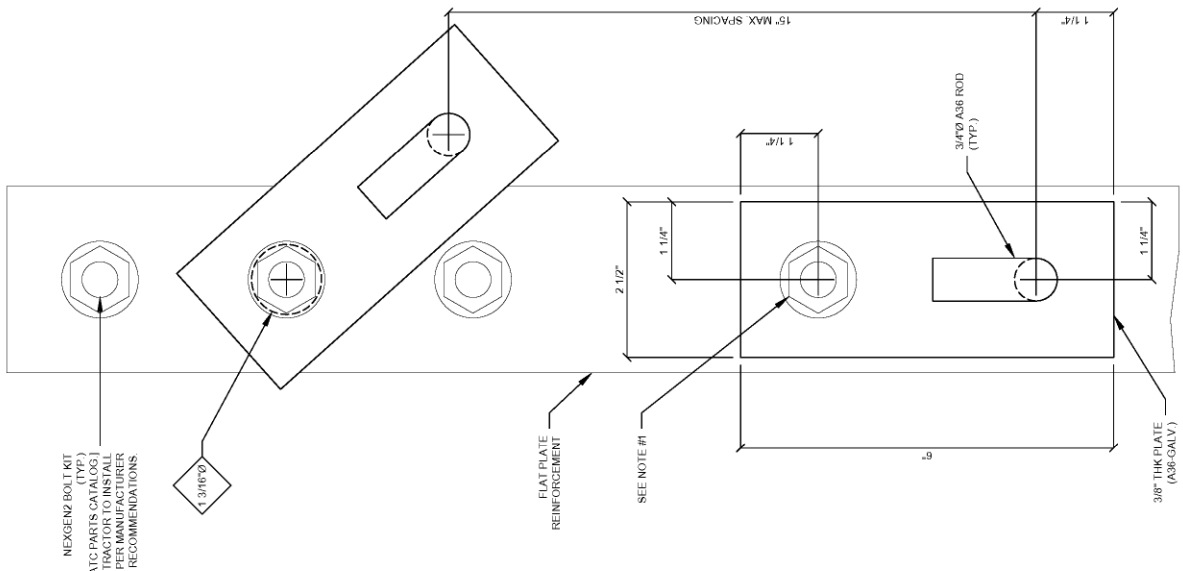
SHEET NUMBER	S-506
REVISION	0



SIDE VIEW

NEXGEN2 BLIND BOLTS (A490)		
ATC KIT NUMBER	ALLFASTENER	RANGE (IN)
NG-0625-0875-A490	2NG2060	0.625-0.875
NG-0938-1438-A490	2NG2036	0.9375-1.4375
NG-1438-1875-A490	2NG2048	1.4375-1.875
NG-1875-2250-A490	2NG2057	1.875-2.25
NG-2250-2688-A490	2NG2068	2.25-2.6875
NG-2688-3750-A490	2NG2096	2.6875-3.75
NG-3750-5000-A490	2NG2127	3.75-5
NG-5000-6313-A490	2NG2212	5-6.3125

NOTES:
 1. BLIND BOLT LENGTHS TO BE VERIFIED PRIOR TO FLAT PLATE STEP BOLT INSTALLATION. USE NEXGEN2 BLIND BOLT CHART.
 2. STEP PEG SPACING IS NOT TO EXCEED 15" MAX STAGGERED OR 30" MAX ON ANY SINGLE SIDE OF THE FLAT PLATE.



FRONT VIEW



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 SITE ADDRESS:
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 BETHEL, CT 06801

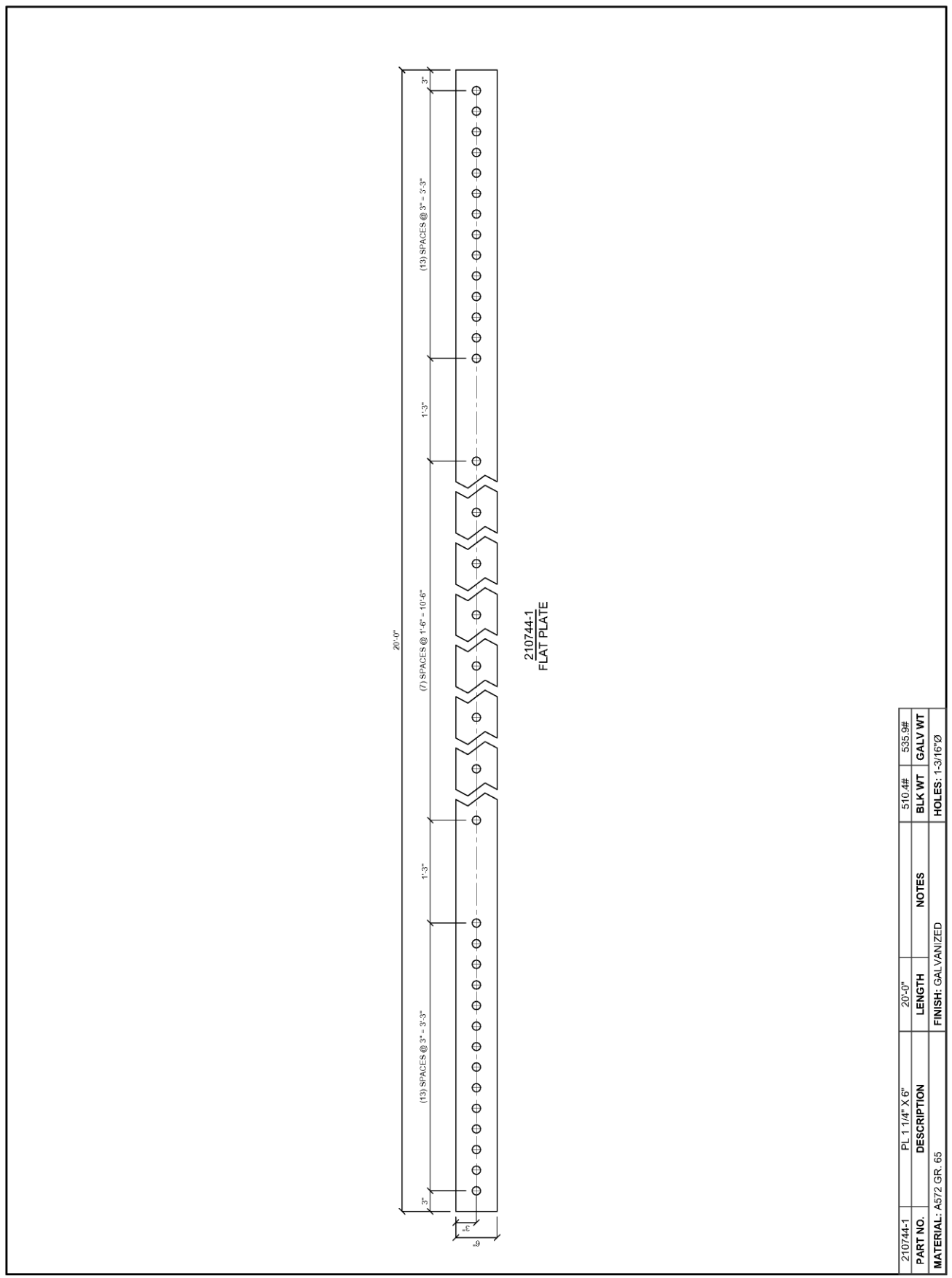


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DRAWN BY	TA
APPROVED BY	THP
DATE DRAWN	04/05/22
ATC-JOB NO.	0AA767RRZ_CR_04

FLAT PLATE
 FABRICATION DETAILS

SHEET NUMBER	REVISION
Z-501	0





Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
gdulnik@maserconsulting.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10038251
Maser Consulting Connecticut Project #: 20777354A

February 19, 2021

Site Information

Site ID: 468263-VZW / Bethel CT
Site Name: Bethel CT
Carrier Name: Verizon Wireless
Address: 38 Spring Hill Road
Bethel, Connecticut 06801
Fairfield County
Latitude: 41.362067°
Longitude: -73.395917°

Structure Information

Tower Type: 130-Ft Monopole
Mount Type: 14.00-Ft Platform

FUZE ID # 16244636

Analysis Results

Platform: 47.1% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

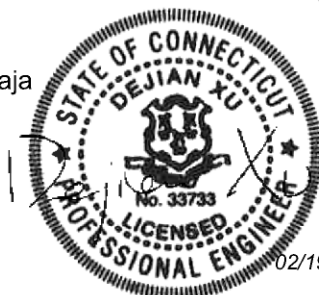
Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Taqi Khawaja



02/19/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 323443, dated December 8, 2020</i>
<i>Mount Mapping Report</i>	<i>Tower Engineering Professionals, Site ID: 468263, dated November 17, 2020</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting, Project # 20777354, dated January 22, 2021</i>
<i>Mount Modification Drawing</i>	<i>Maser Consulting, Project # 20777354, dated February 19, 2021</i>

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: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.972
Seismic Parameters:	S_s : 0.222 S_1 : 0.056
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 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
93.00	95.00	1	Amphenol	BXA-80063-6BF-EDIN-2	Retained
		1	Amphenol	BXA-80080-6CF-EDIN-0	
		1	Amphenol	BXA-80080-6CF-EDIN-2	
		2	Generic	16' Omni	Added
		4	JMA Wireless	MX06FIT665-02	
		2	JMA Wireless	MX06FRO640-02	
		3	-	Licensed Sub 6 Antenna	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting 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.

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Kicker Kit</i>	<i>10.1%</i>	<i>Pass</i>
<i>Mount Pipe</i>	<i>47.0%</i>	<i>Pass</i>
<i>Grating Support</i>	<i>2.7%</i>	<i>Pass</i>
<i>Face Horizontal</i>	<i>15.9%</i>	<i>Pass</i>
<i>Standoff Horizontal</i>	<i>22.4%</i>	<i>Pass</i>
<i>Connection Check</i>	<i>47.1%</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	47.1%
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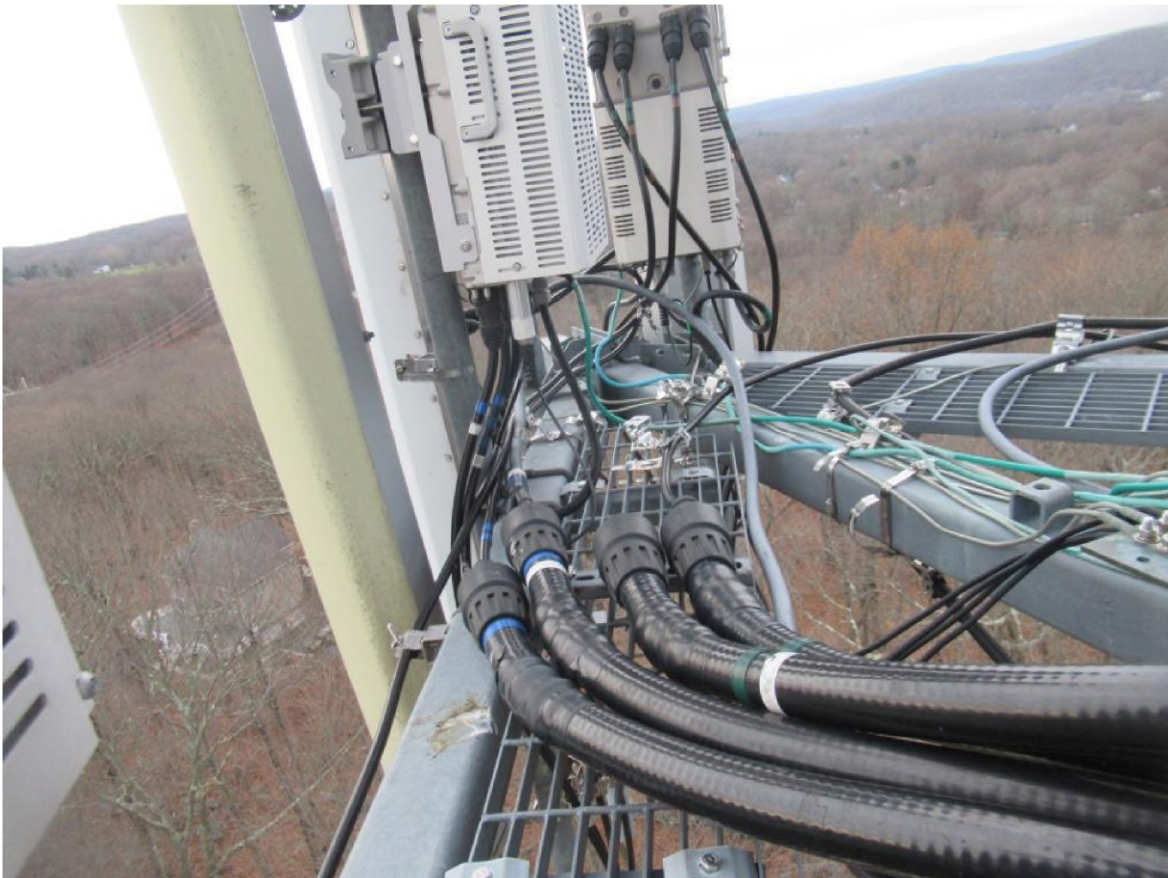
Recommendation:


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.

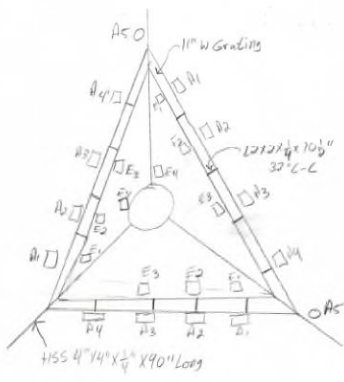
Attachments:

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

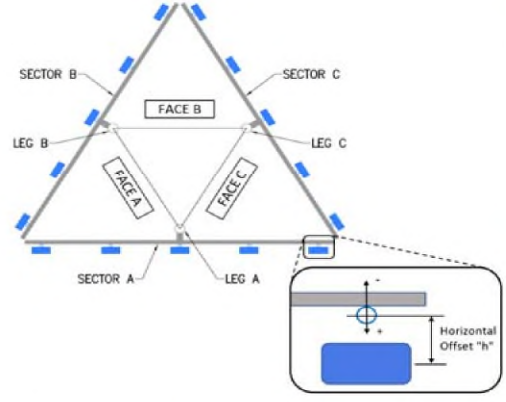


	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
				N/A
Tower Owner:	Unknown	Mapping Date:	11/17/20200	
Site Name:	Bethel CT	Tower Type:	Monopole	
Site Number or ID:	468263	Tower Height (Ft.):	130	
Mapping Contractor:	TEP	Mount Elevation (Ft.):	93	

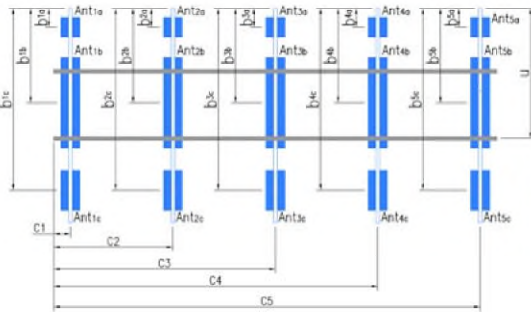
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.



Mount Pipe Configuration and Geometries [Unit = Inches]								
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	
A1	2.4"Øx0.154"x8'-6"	48.00	11.00	C1	2.4"Øx0.154"x8'-6"	48.00	11.00	
A2	2.4"Øx0.154"x6'-0"	38.00	63.50	C2	2.4"Øx0.154"x8'-6"	38.00	63.50	
A3	2.4"Øx0.154"x6'-0"	38.00	131.00	C3	2.4"Øx0.154"x6'-0"	48.00	131.00	
A4	2.4"Øx0.154"x8'-6"	48.00	155.00	C4	2.4"Øx0.154"x8'-6"	48.00	155.00	
A5	2.4"Øx0.154"x2'-0"	18.00	168.00	C5	2.4"Øx0.154"x2'-0"	18.00	168.00	
A6				C6				
B1	2.4"Øx0.154"x8'-6"	48.00	11.00	D1				
B2	2.4"Øx0.154"x8'-6"	48.00	63.50	D2				
B3	2.4"Øx0.154"x6'-0"	38.00	131.00	D3				
B4	2.4"Øx0.154"x8'-6"	48.00	155.00	D4				
B5				D5				
B6				D6				
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev ReP' tab for details.:							0.00	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):							9	
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):								
Please enter additional information or comments below.								
Tower Face Width at Mount Elev. (ft.):				Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):				31.19



Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}										
Ant _{1b}	WWX063X19G00	12.10	7.00	75.00	1) 1 5/8 F	94.5	30.00	10.00	15.00	68
Ant _{1c}	B4 RRH2x60-4R	10.63	5.74	36.60		96.5417	5.50	6.50		70
Ant _{2a}										
Ant _{2b}	Unknown	14.50	7.00	72.00	1) 1 5/8 F	94.25	23.00	11.50	15.00	72
Ant _{2c}	B13 RRH4x30	11.80	7.50	20.90		95.0833	13.00	7.00		74
Ant _{3a}										
Ant _{3b}	WWX063X19G00	12.10	7.00	75.00	1) 1 5/8 F	93.9167	27.00	9.50	15.00	79
Ant _{3c}	B25 RRH4x30	12.00	7.20	21.20		94.9167	15.00	7.50		81
Ant _{4a}										
Ant _{4b}	BXA-80063-6BF	11.20	5.00	71.10	1) 1 5/8 F	94.1667	34.00	8.00	15.00	84
Ant _{4c}										
Ant _{5a}										
Ant _{5b}	Omni	4.00	4.00	192.00		94.5				121
Ant _{5c}										
Ant on Standoff	RRFDC-3315-PF-48	15.73	10.30	28.93	1/4 Hybrid					76
Ant on Standoff										
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B																			
Sector A:	20.00	Deg	Leg A:		Deg	Ant _{1a}																			
Sector B:	140.00	Deg	Leg B:		Deg	Ant _{1b}	WWX063X19G00	12.10	7.00	75.00	1) 1 5/8 F	94.5	30.00	10.00	135.00	87									
Sector C:	260.00	Deg	Leg C:		Deg	Ant _{1c}	B4 RRH2x60-4R	10.63	5.74	36.60		96.5417	5.50	6.50		89									
Sector D:		Deg	Leg D:		Deg	Ant _{2a}																			
Climbing Facility Information						Ant _{2b}	80010736V01	11.90	3.90	96.00	1) 1 5/8 F	93.75	39.00	6.00	135.00	92									
Location:	180.00	Deg	Sector B			Ant _{2c}	B13 RRH4x30	11.80	7.50	20.90		95	24.00	7.00		94									
Climbing Facility	Corrosion Type:	Good condition.				Ant _{3a}																			
	Access:	Climbing path was unobstructed.				Ant _{3b}	WWX063X19G00	12.10	7.00	75.00	1) 1 5/8 F	93.9167	27.00	9.50	135.00	96									
	Condition:	Good condition.				Ant _{3c}	B25 RRH4x30	12.00	7.20	21.20		94.9167	15.00	7.50		98									
						Ant _{4a}																			
						Ant _{4b}	Unknown	5.00	11.50	72.00	1) 1 5/8 F	93.7083	39.50	10.50	135.00	100									
						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}	WWX063X19G00	12.10	7.00	75.00	1) 1 5/8 F	94.5	30.00	10.00	255.00	103									
						Ant _{1c}	B4 RRH2x60-4R	10.63	5.74	36.60		96.5417	5.50	6.50		105									
						Ant _{2a}																			
						Ant _{2b}	80010736V01	11.90	3.90	96.00	1) 1 5/8 F	92.9167	39.00	6.00	255.00	107									
						Ant _{2c}	B13 RRH4x30	11.80	7.50	20.90		94.1667	24.00	7.00		109									
						Ant _{3a}																			
						Ant _{3b}	WWX063X19G00	12.10	7.00	75.00	1) 1 5/8 F	94.75	27.00	9.50	255.00	113									
						Ant _{3c}	B25 RRH4x30	12.00	7.20	21.20		95.75	15.00	7.50		114									
						Ant _{4a}																			
						Ant _{4b}	BXA-80080-6CF	11.20	4.60	72.60	1) 1 5/8 F	93.75	39.00	8.50	255.00	118									
						Ant _{4c}																			
						Ant _{5a}																			
						Ant _{5b}	Omni	4.00	4.00	192.00		94.5				121									
						Ant _{5c}																			
						Ant on Standoff																			
						Ant on Standoff																			
						Ant on Tower																			
						Ant on Tower	RRFDC-3315-PF-48	15.73	10.30	28.93	1/4 Hybrid					111									
						Sector D																			
						Ant _{1a}																			
						Ant _{1b}																			
						Ant _{1c}																			
						Ant _{2a}																			
						Ant _{2b}																			
						Ant _{2c}																			
						Ant _{3a}																			
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						Ant on Standoff																			
						Ant on Standoff																			
						Ant on Tower																			
						Ant on Tower																			

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

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

FCC #
N/A

Tower Owner:	Unknown	Mapping Date:	11/17/2020
Site Name:	Bethel CT	Tower Type:	Monopole
Site Number or ID:	468263	Tower Height (Ft.):	130
Mapping Contractor:	TEP	Mount Elevation (Ft.):	93

This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

Please Insert Sketches of the Antenna Mount

Bethel CT
468263-VZW
11/17/2020

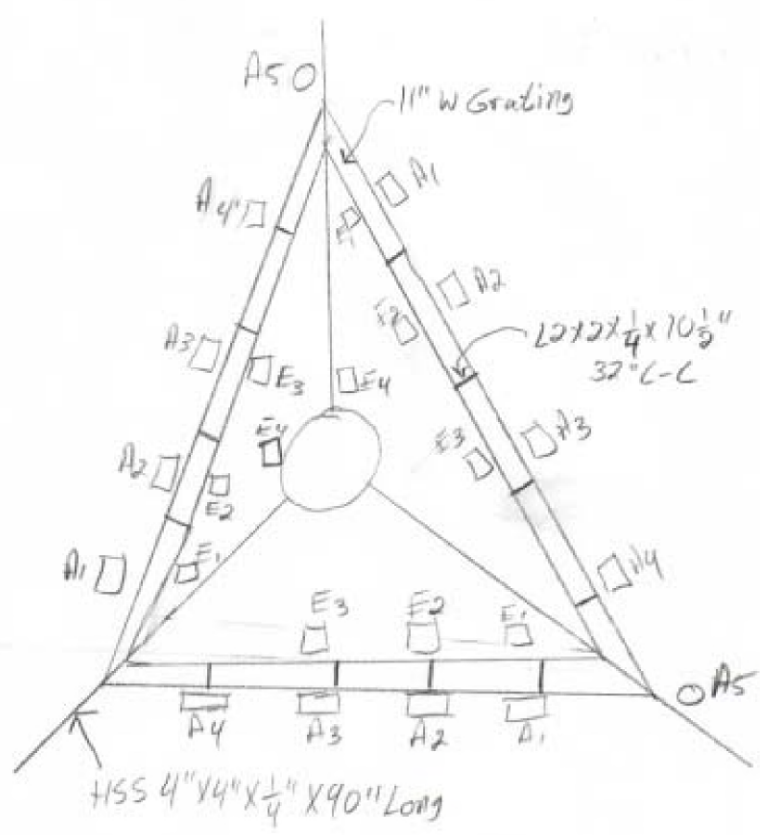
ele
MNT: 93'-0"
ANT: 95'-0"

Safety @ 180°
A2

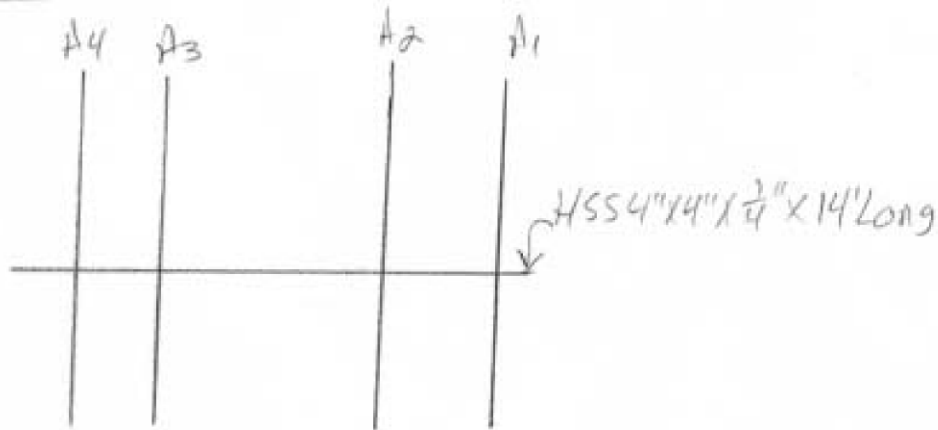
	MNT	ANT
A	20°	15°
B	140°	135°
G	260°	255°

MASER
Coax
(2) 1 1/4" Hybrid
(2) 1 5/8" FH
NAF: 5 1/8"
MNT 9' above VZW

Plan View

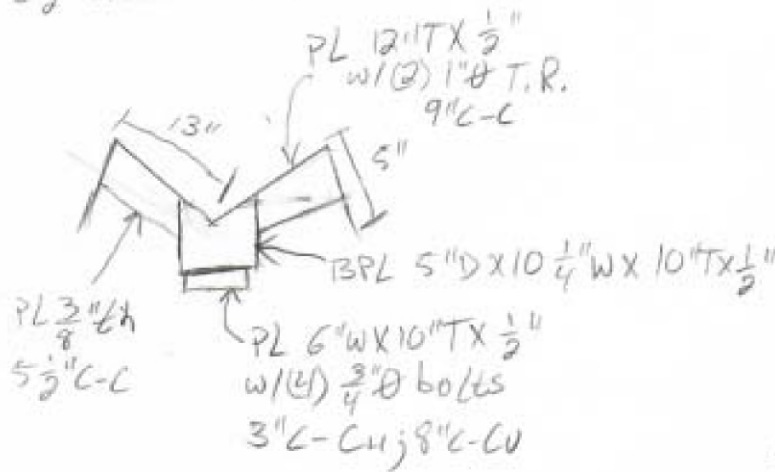


Front View



Collar Detail

6 1/2" Clear Spacing



M.P. CNX - 6'-0" Pipes

PL 7" W X 7" T X 1/4"
w/ (4) 1/2" Ø U-bolts
3" C-C H; 5" C-C

M.P. CNX - 8'-6" Pipes

(2) PL 7" W X 7" T X 1/4"
w/ (4) 1/2" Ø T.R. 5 1/2" C-C
(2) 1/2" Ø U-bolts
3" C-C H; 5" C-C

Omi CNX

(4) BPL 2" T X 8" W X 3/8"
w/ (2) 5/8" Ø T.R. 6" C-C
17 1/2" U.S.

Face to Face CNX

L 1 1/2" X 3" X 1/4" X 9" Long
w/ (2) 1/2" Ø bolts 6" C-C
w/ 1/4" stiffeners 4" C-C

Rayscap CNX

PL 7" W X 8" T X 3/8"
w/ (2) 1/2" Ø T.R. 5" C-C
w/ (2) 1/2" Ø U-bolts
3" C-C H; 5" C-C

Alpha

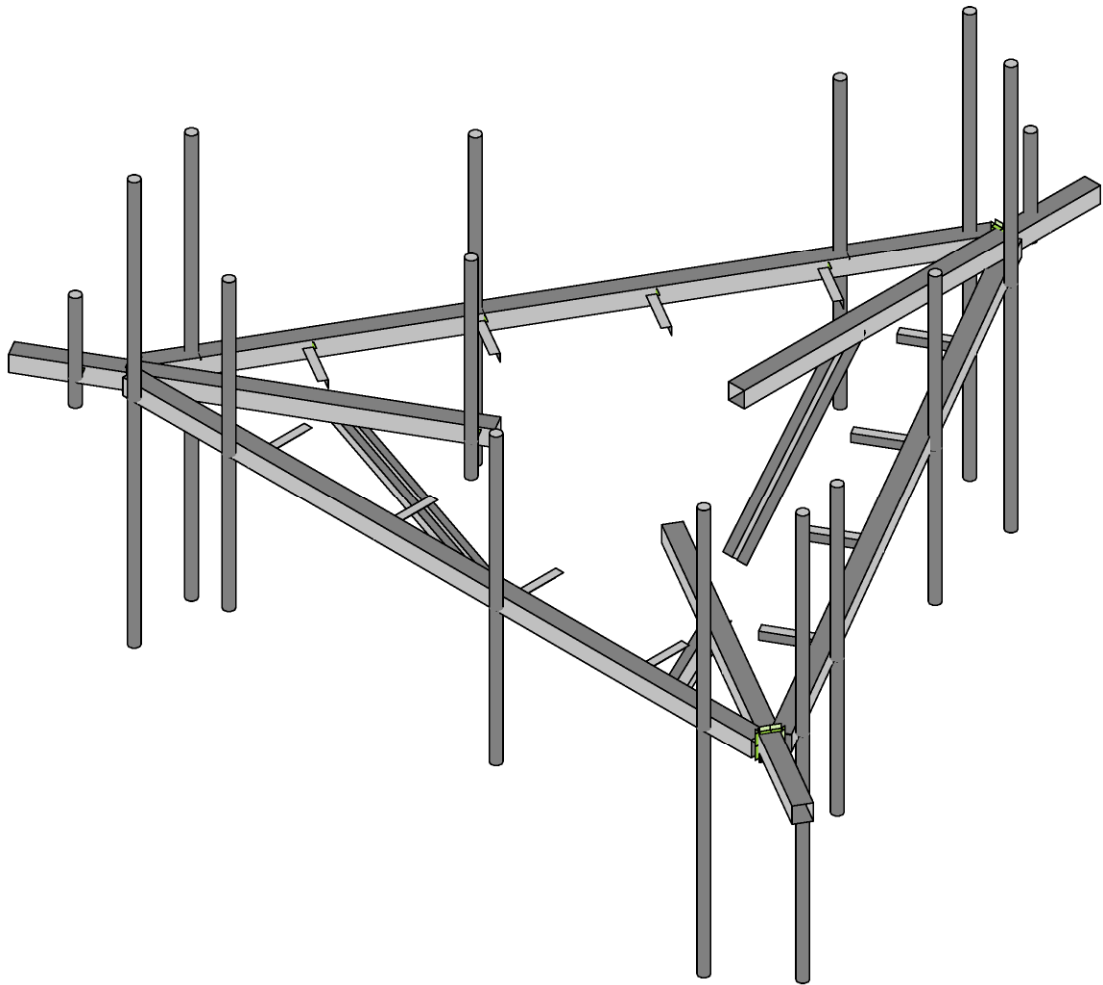
	m.p./location	u	b	H	C	model #
A1	2.4"Ø x 8'-6"	48"	30"	10"	11"	WWX063X19600
A2	2.4"Ø x 6'-0"	38"	23"	11½"	63.5"	14½" W X 6' T X 7" D Panel
A3	2.4"Ø x 6'-0"	36"	27"	9½"	131"	WWX063X19600
A4	2.4"Ø x 8'-6"	48"	34"	8"	155"	BXA-80063-6BF
A5	2.4"Ø x 2'-0"	18"	-	-	-	4"Ø x 16' Omni
E1	behind A1	-	5½"	6½"	-	B4 RRH 2X60-4R
E2	behind A2	-	13"	7"	-	B3 RRH 4X30
E3	behind A3	-	15"	7½"	-	B25 RRH 4X30
E4	on MNT	-	-	-	-	RRFDC-3315-PF-48

Beta

	m.p./location	u	b	H	C	model #
A1	2.4"Ø x 8'-6"	48"	30"	10"	11"	WWX063X19600
A2	2.4"Ø x 8'-6"	48"	39"	6"	63.5"	80010736V01
A3	2.4"Ø x 6'-0"	36"	27"	9½"	131"	WWX063X19600
A4	2.4"Ø x 8'-6"	48"	39½"	10½"	155"	11½" W X 6' T X 5' D Panel
E1	behind A1	-	5½"	6½"	-	B4 RRH 2X60-4R
E2	behind A2	-	24"	7"	-	B3 RRH 4X30
E3	behind A3	-	15"	7½"	-	B25 RRH 4X30

Gamma

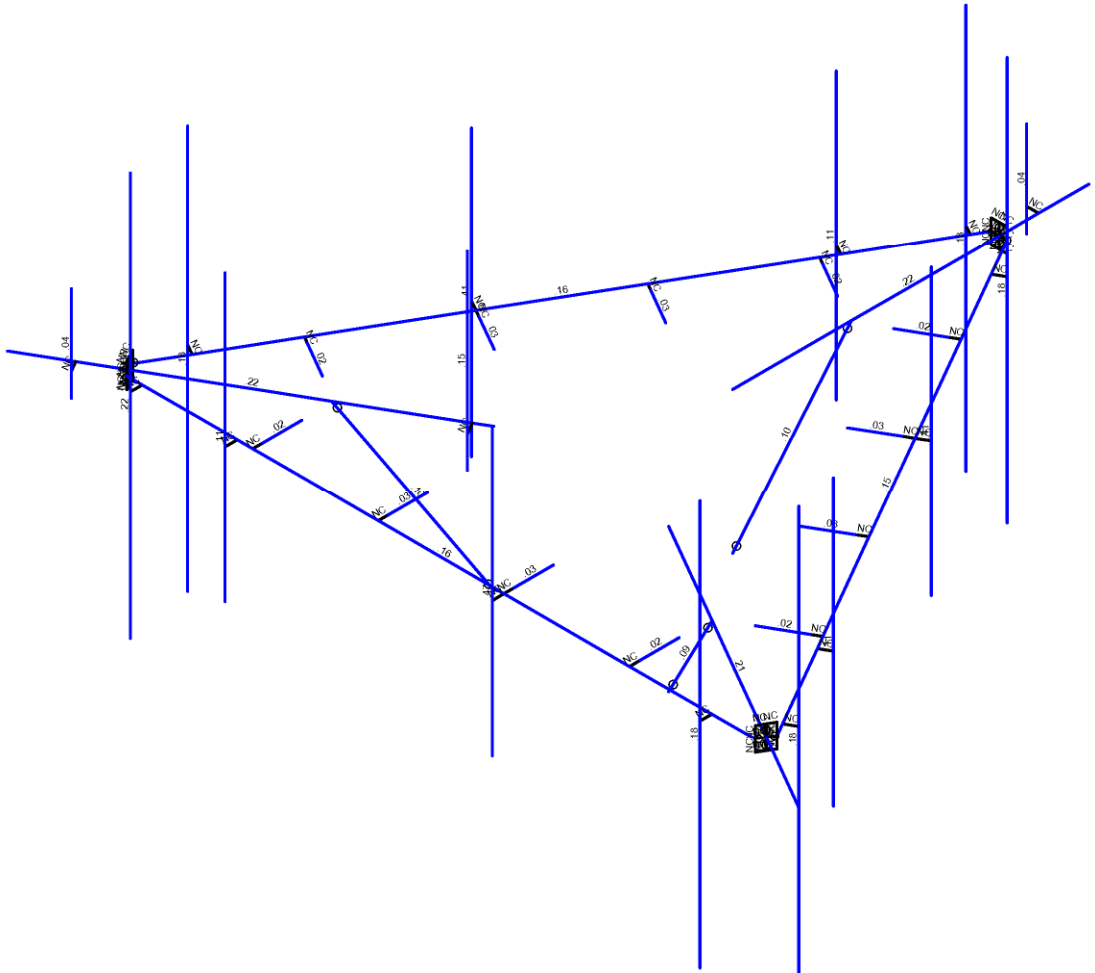
	m.p/location	u	b	H	C	model #
A1	2.4"Øx8'-6"	48"	30"	10"	11"	WWY063X19600
A2	2.4"Øx8'-6"	38"	39"	6"	63.5"	80010736V01
A3	2.4"Øx6'-0"	48"	27"	9 $\frac{1}{2}$ "	131"	WWY063X19600
A4	2.4"Øx8'-6"	48"	39"	8 $\frac{1}{2}$ "	155"	BXA-80080-6CF
A5	2.4"Øx2'-0"	18"	-	-	-	4"Øx16' omni
E1	behind A1	-	5 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	-	B4 RRH 2x60-4R
E2	behind A2	-	24"	7"	-	B13 RRH 4x30
E3	behind A3	-	15"	7 $\frac{1}{2}$ "	-	B25 RRH 4x30
E4	Direct mnt to tower	-	-	-	-	RRFDC-3315-PF-48



SK - 1
Feb 19, 2021 at 3:02 PM
MOD_468263-VZW_MT_LO_H.r3d

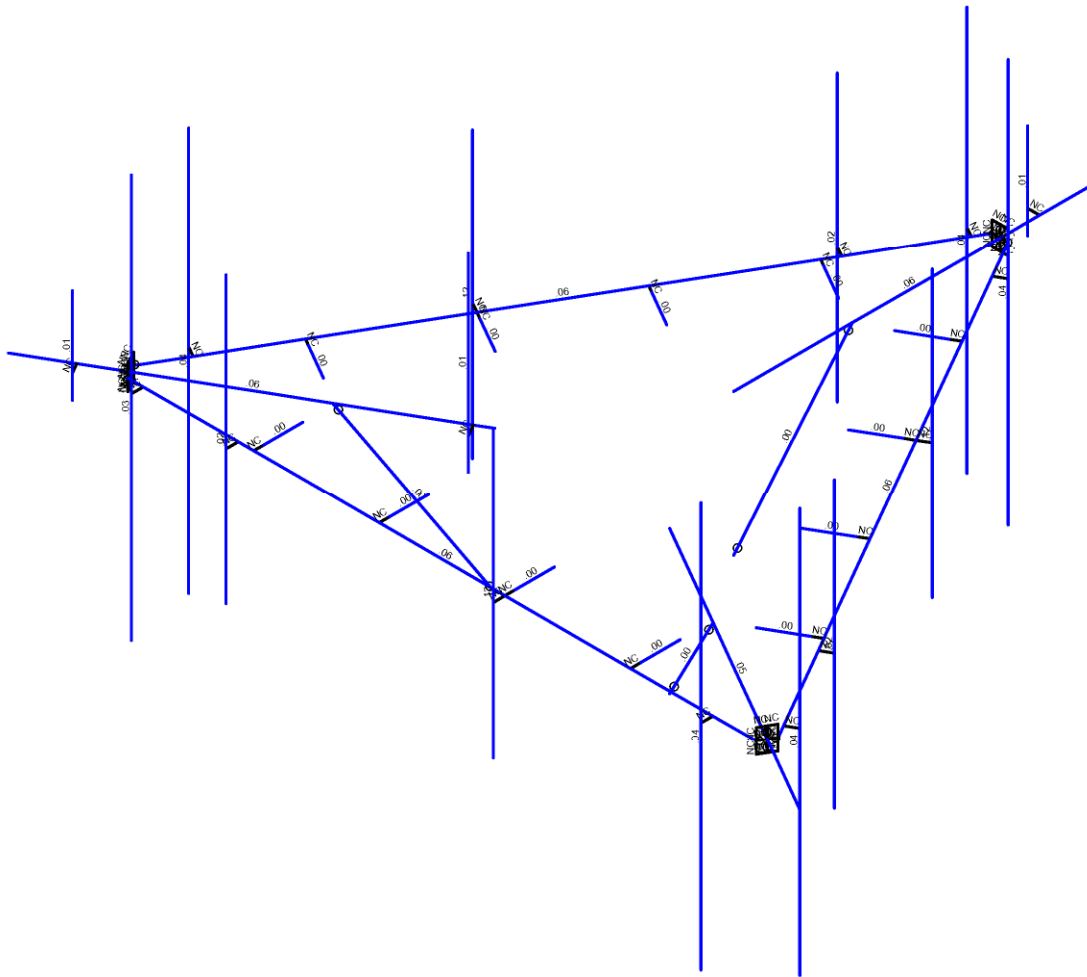


Code Check (E-Pls)	
■	No Calc
■	> 1.0
■	90-1.0
■	75-90
■	50-75
■	0-50



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

		SK - 2
		Feb 19, 2021 at 3:02 PM
		MOD_468263-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0W₀ (0 Deg)

SK - 3

Feb 19, 2021 at 3:02 PM

MOD_468263-VZW_MT_LO_H.r3d



Company :
 Designer :
 Job Number :
 Model Name :

Feb 19, 2021
 3:02 PM
 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					99		
2	Antenna Di	None					99		
3	Antenna Wo (0 Deg)	None					99		
4	Antenna Wo (30 Deg)	None					99		
5	Antenna Wo (60 Deg)	None					99		
6	Antenna Wo (90 Deg)	None					99		
7	Antenna Wo (120 Deg)	None					99		
8	Antenna Wo (150 Deg)	None					99		
9	Antenna Wo (180 Deg)	None					99		
10	Antenna Wo (210 Deg)	None					99		
11	Antenna Wo (240 Deg)	None					99		
12	Antenna Wo (270 Deg)	None					99		
13	Antenna Wo (300 Deg)	None					99		
14	Antenna Wo (330 Deg)	None					99		
15	Antenna Wi (0 Deg)	None					99		
16	Antenna Wi (30 Deg)	None					99		
17	Antenna Wi (60 Deg)	None					99		
18	Antenna Wi (90 Deg)	None					99		
19	Antenna Wi (120 Deg)	None					99		
20	Antenna Wi (150 Deg)	None					99		
21	Antenna Wi (180 Deg)	None					99		
22	Antenna Wi (210 Deg)	None					99		
23	Antenna Wi (240 Deg)	None					99		
24	Antenna Wi (270 Deg)	None					99		
25	Antenna Wi (300 Deg)	None					99		
26	Antenna Wi (330 Deg)	None					99		
27	Antenna Wm (0 Deg)	None					99		
28	Antenna Wm (30 Deg)	None					99		
29	Antenna Wm (60 Deg)	None					99		
30	Antenna Wm (90 Deg)	None					99		
31	Antenna Wm (120 Deg)	None					99		
32	Antenna Wm (150 Deg)	None					99		
33	Antenna Wm (180 Deg)	None					99		
34	Antenna Wm (210 Deg)	None					99		
35	Antenna Wm (240 Deg)	None					99		
36	Antenna Wm (270 Deg)	None					99		
37	Antenna Wm (300 Deg)	None					99		
38	Antenna Wm (330 Deg)	None					99		
39	Structure D	None		-1					3
40	Structure Di	None						36	3
41	Structure Wo (0 Deg)	None						72	
42	Structure Wo (30 Deg)	None						72	
43	Structure Wo (60 Deg)	None						72	
44	Structure Wo (90 Deg)	None						72	
45	Structure Wo (120 D...	None						72	
46	Structure Wo (150 D...	None						72	
47	Structure Wo (180 D...	None						72	
48	Structure Wo (210 D...	None						72	
49	Structure Wo (240 D...	None						72	
50	Structure Wo (270 D...	None						72	
51	Structure Wo (300 D...	None						72	
52	Structure Wo (330 D...	None						72	
53	Structure Wi (0 Deg)	None						72	
54	Structure Wi (30 Deg)	None						72	
55	Structure Wi (60 Deg)	None						72	
56	Structure Wi (90 Deg)	None						72	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
57	Structure Wi (120 De..	None						72	
58	Structure Wi (150 De..	None						72	
59	Structure Wi (180 De..	None						72	
60	Structure Wi (210 De..	None						72	
61	Structure Wi (240 De..	None						72	
62	Structure Wi (270 De..	None						72	
63	Structure Wi (300 De..	None						72	
64	Structure Wi (330 De..	None						72	
65	Structure Wm (0 Deg)	None						72	
66	Structure Wm (30 De..	None						72	
67	Structure Wm (60 De..	None						72	
68	Structure Wm (90 De..	None						72	
69	Structure Wm (120 D..	None						72	
70	Structure Wm (150 D..	None						72	
71	Structure Wm (180 D..	None						72	
72	Structure Wm (210 D..	None						72	
73	Structure Wm (240 D..	None						72	
74	Structure Wm (270 D..	None						72	
75	Structure Wm (300 D..	None						72	
76	Structure Wm (330 D..	None						72	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	BLC 39 Transient Are...	None						108	
82	BLC 40 Transient Are...	None						108	

Load Combinations

Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1											
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1											
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1											
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1											
5	1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1											
6	1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1											
7	1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1											
8	1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1											
9	1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1											
10	1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1											
11	1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1											
12	1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1											
13	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1							
14	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1							
15	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1							
16	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1							
17	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1							
18	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1							
19	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1							
20	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1							
21	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1							
22	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1							
23	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1							
24	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1							
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1									
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1									

Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	0	0	-2.125	0	
2	CP	0	0	0	0	
3	N5	0	0	-7.739583	0	
4	N6	0.166667	0	-7.739583	0	
5	N7	-0.166667	0	-7.739583	0	
6	N8	0	.25	-7.739583	0	
7	N9	0.166667	.25	-7.739583	0	
8	N10	-0.166667	.25	-7.739583	0	
9	N11	0	-25	-7.739583	0	
10	N12	0.166667	-25	-7.739583	0	
11	N13	-0.166667	-25	-7.739583	0	
12	N14	-1.840304	0	1.0625	0	
13	N17	-6.702676	0	3.869792	0	
14	N18	-6.786009	0	3.725454	0	



Company :
 Designer :
 Job Number :
 Model Name :

Feb 19, 2021
 3:02 PM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N19	-6.619342	0	4.014129	0	
16	N20	-6.702676	.25	3.869792	0	
17	N21	-6.786009	.25	3.725454	0	
18	N22	-6.619342	.25	4.014129	0	
19	N23	-6.702676	-.25	3.869792	0	
20	N24	-6.786009	-.25	3.725454	0	
21	N25	-6.619342	-.25	4.014129	0	
22	N26	1.840304	0	1.0625	0	
23	N29	6.702676	0	3.869792	0	
24	N30	6.619342	0	4.014129	0	
25	N31	6.786009	0	3.725454	0	
26	N32	6.702676	.25	3.869792	0	
27	N33	6.619342	.25	4.014129	0	
28	N34	6.786009	.25	3.725454	0	
29	N35	6.702676	-.25	3.869792	0	
30	N36	6.619342	-.25	4.014129	0	
31	N37	6.786009	-.25	3.725454	0	
32	N90	-1.983146	0	1.481757	0	
33	N91	-2.128979	0	1.229167	0	
34	N92	-1.983146	3.333333	1.481757	0	
35	N93	-1.983146	-0.666667	1.481757	0	
36	N87	0	0	-9.625	0	
37	N88	-8.335495	0	4.8125	0	
38	N89	8.335495	0	4.8125	0	
39	N87A	-3.971605	0	4.014129	0	
40	N88A	-1.323868	0	4.014129	0	
41	N89A	1.323868	0	4.014129	0	
42	N90A	3.971605	0	4.014129	0	
43	N91A	-3.971605	0	3.847463	0	
44	N92A	-1.323868	0	3.847463	0	
45	N93A	1.323868	0	3.847463	0	
46	N94	3.971605	0	3.847463	0	
47	N95	-3.971605	0	2.972463	0	
48	N96	-1.323868	0	2.972463	0	
49	N97	1.323868	0	2.972463	0	
50	N98	3.971605	0	2.972463	0	
51	N99	5.462141	0	1.432447	0	
52	N100	4.138272	0	-0.860561	0	
53	N101	2.814404	0	-3.153568	0	
54	N102	1.490535	0	-5.446576	0	
55	N103	5.317803	0	1.51578	0	
56	N104	3.993935	0	-0.777228	0	
57	N105	2.670066	0	-3.070235	0	
58	N106	1.346198	0	-5.363243	0	
59	N107	4.560031	0	1.95328	0	
60	N108	3.236162	0	-0.339728	0	
61	N109	1.912294	0	-2.632735	0	
62	N110	0.588425	0	-4.925743	0	
63	N111	-1.490535	0	-5.446576	0	
64	N112	-2.814404	0	-3.153568	0	
65	N113	-4.138272	0	-0.860561	0	
66	N114	-5.462141	0	1.432447	0	
67	N115	-1.346198	0	-5.363243	0	
68	N116	-2.670066	0	-3.070235	0	
69	N117	-3.993935	0	-0.777228	0	
70	N118	-5.317803	0	1.51578	0	
71	N119	-0.588425	0	-4.925743	0	



Company :
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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N120	-1.912294	0	-2.632735	0	
73	N121	-3.236162	0	-0.339728	0	
74	N122	-4.560031	0	1.95328	0	
75	N75	0	0	-8.572917	0	
76	N76	-.25	0	-8.572917	0	
77	N77	-7.424364	0	4.286458	0	
78	N78	-7.299364	0	4.502965	0	
79	N79	5.702676	0	4.014129	0	
80	N80	5.702676	0	4.264129	0	
81	N82	1.327676	0	4.264129	0	
82	N83	-4.297324	0	4.014129	0	
83	N84	-4.297324	0	4.264129	0	
84	N85	-6.297324	0	4.014129	0	
85	N86	-6.297324	0	4.264129	0	
86	N87B	0.625	0	-6.945727	0	
87	N88B	0.841506	0	-7.070727	0	
88	N89B	3.029006	0	-3.281866	0	
89	N90B	5.625	0	1.714527	0	
90	N91B	5.841506	0	1.589527	0	
91	N92B	6.625	0	3.446578	0	
92	N93B	6.841506	0	3.321578	0	
93	N95A	-6.327676	0	2.931597	0	
94	N96A	-6.544182	0	2.806597	0	
95	N97A	-4.356682	0	-0.982264	0	
96	N98A	-1.327676	0	-5.728657	0	
97	N99A	-1.544182	0	-5.853657	0	
98	N100A	-0.327676	0	-7.460707	0	
99	N101A	-0.544182	0	-7.585707	0	
100	N100B	5.702676	4	4.264129	0	
101	N101B	-6.297324	4	4.264129	0	
102	N102A	5.702676	-4.5	4.264129	0	
103	N103A	-6.297324	-4.5	4.264129	0	
104	N104A	1.327676	3.166667	4.264129	0	
105	N105A	-4.297324	3.166667	4.264129	0	
106	N106A	1.327676	-2.833333	4.264129	0	
107	N107A	-4.297324	-2.833333	4.264129	0	
108	N108A	-7.299364	1.5	4.502965	0	
109	N109A	-7.299364	-.5	4.502965	0	
110	N110A	0.841506	4	-7.070727	0	
111	N111A	6.841506	4	3.321578	0	
112	N112A	0.841506	-4.5	-7.070727	0	
113	N113A	6.841506	-4.5	3.321578	0	
114	N114A	3.029006	3.166667	-3.281866	0	
115	N115A	5.841506	3.166667	1.589527	0	
116	N116A	3.029006	-2.833333	-3.281866	0	
117	N117A	5.841506	-2.833333	1.589527	0	
118	N118A	-6.544182	4	2.806597	0	
119	N119A	-0.544182	4	-7.585707	0	
120	N120A	-6.544182	-4.5	2.806597	0	
121	N121A	-0.544182	-4.5	-7.585707	0	
122	N122A	-4.356682	3.166667	-0.982264	0	
123	N123	-1.544182	3.166667	-5.853657	0	
124	N124	-4.356682	-2.833333	-0.982264	0	
125	N125	-1.544182	-2.833333	-5.853657	0	
126	N126	-.25	1.5	-8.572917	0	
127	N127	-.25	-.5	-8.572917	0	
128	N128	0	0	-5.625	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N129	-4.871393	0	2.8125	0	
130	N130	4.871393	0	2.8125	0	
131	N131	0	0	-4.625	0	
132	N132	0	-3	-2.125	0	
133	N133	-4.005367	0	2.3125	0	
134	N134	-1.840304	-3	1.0625	0	
135	N135	4.005367	0	2.3125	0	
136	N136	1.840304	-3	1.0625	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in ²]	I _{yy} [in ⁴]	I _{zz} [in ⁴]	J [in ⁴]
1	Face Horizontal	HSS4X4X4	Beam	SquareTu...	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTu...	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Grating Support	L2x2x4	Beam	Single An...	A36 Gr.36	Typical	.944	.346	.346	.021
5	Kicker Kit	LL3x3x3x0	Beam	Double An...	A36 Gr.36	Typical	2.18	3.35	1.9	.027

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (...)	Density[k/ft ³]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rul...
1	M4	N3	N87			Standoff Horizontal	Beam	SquareTube	A500 Gr....	Typical
2	M2	N7	N5			RIGID	None	None	RIGID	Typical
3	M3	N6	N5			RIGID	None	None	RIGID	Typical
4	M4A	N10	N8			RIGID	None	None	RIGID	Typical
5	M5	N9	N8			RIGID	None	None	RIGID	Typical
6	M6	N13	N11			RIGID	None	None	RIGID	Typical
7	M7	N12	N11			RIGID	None	None	RIGID	Typical
8	M8	N8	N5			RIGID	None	None	RIGID	Typical
9	M9	N11	N5			RIGID	None	None	RIGID	Typical
10	M10	N7	N10			RIGID	None	None	RIGID	Typical
11	M11	N6	N9			RIGID	None	None	RIGID	Typical
12	M12	N7	N13			RIGID	None	None	RIGID	Typical
13	M13	N6	N12			RIGID	None	None	RIGID	Typical
14	M14	N14	N88			Standoff Horizontal	Beam	SquareTube	A500 Gr....	Typical
15	M15	N19	N17			RIGID	None	None	RIGID	Typical
16	M16	N18	N17			RIGID	None	None	RIGID	Typical
17	M17	N22	N20			RIGID	None	None	RIGID	Typical
18	M18	N21	N20			RIGID	None	None	RIGID	Typical
19	M19	N25	N23			RIGID	None	None	RIGID	Typical
20	M20	N24	N23			RIGID	None	None	RIGID	Typical
21	M21	N20	N17			RIGID	None	None	RIGID	Typical
22	M22	N23	N17			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rul...
23	M23	N19	N22			RIGID	None	None	RIGID	Typical
24	M24	N18	N21			RIGID	None	None	RIGID	Typical
25	M25	N19	N25			RIGID	None	None	RIGID	Typical
26	M26	N18	N24			RIGID	None	None	RIGID	Typical
27	M27	N26	N89			Standoff Horizontal	Beam	SquareTube	A500 Gr....	Typical
28	M28	N31	N29			RIGID	None	None	RIGID	Typical
29	M29	N30	N29			RIGID	None	None	RIGID	Typical
30	M30	N34	N32			RIGID	None	None	RIGID	Typical
31	M31	N33	N32			RIGID	None	None	RIGID	Typical
32	M32	N37	N35			RIGID	None	None	RIGID	Typical
33	M33	N36	N35			RIGID	None	None	RIGID	Typical
34	M34	N32	N29			RIGID	None	None	RIGID	Typical
35	M35	N35	N29			RIGID	None	None	RIGID	Typical
36	M36	N31	N34			RIGID	None	None	RIGID	Typical
37	M37	N30	N33			RIGID	None	None	RIGID	Typical
38	M38	N31	N37			RIGID	None	None	RIGID	Typical
39	M39	N30	N36			RIGID	None	None	RIGID	Typical
40	M40	N18	N7			Face Horizontal	Beam	SquareTube	A500 Gr....	Typical
41	M41	N6	N31			Face Horizontal	Beam	SquareTube	A500 Gr....	Typical
42	M42	N19	N30			Face Horizontal	Beam	SquareTube	A500 Gr....	Typical
43	O1	N92	N93			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
44	M68	N91	N90			RIGID	None	None	RIGID	Typical
45	M69	N87A	N91A			RIGID	None	None	RIGID	Typical
46	M70	N88A	N92A			RIGID	None	None	RIGID	Typical
47	M71	N89A	N93A			RIGID	None	None	RIGID	Typical
48	M72	N90A	N94			RIGID	None	None	RIGID	Typical
49	M73	N91A	N95		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
50	M74	N92A	N96		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
51	M75	N93A	N97		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
52	M76	N94	N98		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
53	M77	N99	N103			RIGID	None	None	RIGID	Typical
54	M78	N100	N104			RIGID	None	None	RIGID	Typical
55	M79	N101	N105			RIGID	None	None	RIGID	Typical
56	M80	N102	N106			RIGID	None	None	RIGID	Typical
57	M81	N103	N107		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
58	M82	N104	N108		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
59	M83	N105	N109		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
60	M84	N106	N110		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
61	M85	N111	N115			RIGID	None	None	RIGID	Typical
62	M86	N112	N116			RIGID	None	None	RIGID	Typical
63	M87	N113	N117			RIGID	None	None	RIGID	Typical
64	M88	N114	N118			RIGID	None	None	RIGID	Typical
65	M89	N115	N119		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
66	M90	N116	N120		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
67	M91	N117	N121		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
68	M92	N118	N122		90	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
69	M69A	N76	N75			RIGID	None	None	RIGID	Typical
70	M70A	N78	N77			RIGID	None	None	RIGID	Typical
71	M71A	N80	N79			RIGID	None	None	RIGID	Typical
72	M72A	N82	N89A			RIGID	None	None	RIGID	Typical
73	M73A	N84	N83			RIGID	None	None	RIGID	Typical
74	M74A	N86	N85			RIGID	None	None	RIGID	Typical
75	M75A	N88B	N87B			RIGID	None	None	RIGID	Typical
76	M76A	N89B	N101			RIGID	None	None	RIGID	Typical
77	M77A	N91B	N90B			RIGID	None	None	RIGID	Typical
78	M78A	N93B	N92B			RIGID	None	None	RIGID	Typical
79	M79A	N96A	N95A			RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rul...
80	M80A	N97A	N113			RIGID	None	None	RIGID	Typical
81	M81A	N99A	N98A			RIGID	None	None	RIGID	Typical
82	M82A	N101A	N100A			RIGID	None	None	RIGID	Typical
83	MP4A	N101B	N103A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	MP1A	N100B	N102A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
85	MP3A	N105A	N107A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
86	MP2A	N104A	N106A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
87	MP5A	N108A	N109A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
88	MP4C	N111A	N113A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
89	MP1C	N110A	N112A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
90	MP3C	N115A	N117A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	MP2C	N114A	N116A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
92	MP4B	N119A	N121A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
93	MP1B	N118A	N120A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
94	MP3B	N123	N125			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
95	MP2B	N122A	N124			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
96	MP5B	N126	N127			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
97	M97	N131	N132			Kicker Kit	Beam	Double Angle...	A36 Gr.36	Typical
98	M98	N133	N134			Kicker Kit	Beam	Double Angle...	A36 Gr.36	Typical
99	M99	N135	N136			Kicker Kit	Beam	Double Angle...	A36 Gr.36	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[...]	Lcomp bot[...]	L-torq...	Kyy	Kzz	Cb	Functi...
1	M4	Standoff Horizontal	7.5			Lbyy						Lateral
2	M14	Standoff Horizontal	7.5			Lbyy						Lateral
3	M27	Standoff Horizontal	7.5			Lbyy						Lateral
4	M40	Face Horizontal	13.239			Lbyy						Lateral
5	M41	Face Horizontal	13.239			Lbyy						Lateral
6	M42	Face Horizontal	13.239			Lbyy						Lateral
7	O1	Mount Pipe	4									Lateral
8	M73	Grating Support	.875			Lbyy						Lateral
9	M74	Grating Support	.875			Lbyy						Lateral
10	M75	Grating Support	.875			Lbyy						Lateral
11	M76	Grating Support	.875			Lbyy						Lateral
12	M81	Grating Support	.875			Lbyy						Lateral
13	M82	Grating Support	.875			Lbyy						Lateral
14	M83	Grating Support	.875			Lbyy						Lateral
15	M84	Grating Support	.875			Lbyy						Lateral
16	M89	Grating Support	.875			Lbyy						Lateral
17	M90	Grating Support	.875			Lbyy						Lateral
18	M91	Grating Support	.875			Lbyy						Lateral
19	M92	Grating Support	.875			Lbyy						Lateral
20	MP4A	Mount Pipe	8.5									Lateral
21	MP1A	Mount Pipe	8.5									Lateral
22	MP3A	Mount Pipe	6									Lateral
23	MP2A	Mount Pipe	6									Lateral
24	MP5A	Mount Pipe	2									Lateral
25	MP4C	Mount Pipe	8.5									Lateral
26	MP1C	Mount Pipe	8.5									Lateral
27	MP3C	Mount Pipe	6									Lateral
28	MP2C	Mount Pipe	6									Lateral
29	MP4B	Mount Pipe	8.5									Lateral
30	MP1B	Mount Pipe	8.5									Lateral
31	MP3B	Mount Pipe	6									Lateral
32	MP2B	Mount Pipe	6									Lateral



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Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[...]	Lcomp bot[...]	L-torq...	Kyy	Kzz	Cb	Functi...
33	MP5B	Mount Pipe	2									Lateral
34	M97	Kicker Kit	3.905			Lbyy						Lateral
35	M98	Kicker Kit	3.905			Lbyy						Lateral
36	M99	Kicker Kit	3.905			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Y	-9.6	.5
2	MP4A	My	-.006	.5
3	MP4A	Mz	0	.5
4	MP4A	Y	-9.6	4.5
5	MP4A	My	-.006	4.5
6	MP4A	Mz	0	4.5
7	MP4B	Y	-9	.5
8	MP4B	My	0	.5
9	MP4B	Mz	-.007	.5
10	MP4B	Y	-9	4.5
11	MP4B	My	0	4.5
12	MP4B	Mz	-.007	4.5
13	MP4C	Y	-9	.5
14	MP4C	My	.006	.5
15	MP4C	Mz	.004	.5
16	MP4C	Y	-9	4.5
17	MP4C	My	.006	4.5
18	MP4C	Mz	.004	4.5
19	MP2B	Y	-34.5	.5
20	MP2B	My	.02	.5
21	MP2B	Mz	-.029	.5
22	MP2B	Y	-34.5	4.5
23	MP2B	My	.02	4.5
24	MP2B	Mz	-.029	4.5
25	MP2C	Y	-34.5	.5
26	MP2C	My	.015	.5
27	MP2C	Mz	.032	.5
28	MP2C	Y	-34.5	4.5
29	MP2C	My	.015	4.5
30	MP2C	Mz	.032	4.5
31	MP2B	Y	-34.5	.5
32	MP2B	My	-.02	.5
33	MP2B	Mz	-.029	.5
34	MP2B	Y	-34.5	4.5
35	MP2B	My	-.02	4.5
36	MP2B	Mz	-.029	4.5
37	MP2C	Y	-34.5	.5
38	MP2C	My	.035	.5
39	MP2C	Mz	-.003	.5
40	MP2C	Y	-34.5	4.5
41	MP2C	My	.035	4.5
42	MP2C	Mz	-.003	4.5
43	MP2A	Y	-15.9	.5
44	MP2A	My	-.013	.5
45	MP2A	Mz	-.013	.5
46	MP2A	Y	-15.9	4.5
47	MP2A	My	-.013	4.5
48	MP2A	Mz	-.013	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
49	MP2A	Y	-15.9	.5
50	MP2A	My	-.013	.5
51	MP2A	Mz	.013	.5
52	MP2A	Y	-15.9	4.5
53	MP2A	My	-.013	4.5
54	MP2A	Mz	.013	4.5
55	MP1A	Y	-43.55	1.5
56	MP1A	My	-.036	1.5
57	MP1A	Mz	0	1.5
58	MP1A	Y	-43.55	3.5
59	MP1A	My	-.036	3.5
60	MP1A	Mz	0	3.5
61	MP1B	Y	-43.55	1.5
62	MP1B	My	0	1.5
63	MP1B	Mz	-.036	1.5
64	MP1B	Y	-43.55	3.5
65	MP1B	My	0	3.5
66	MP1B	Mz	-.036	3.5
67	MP1C	Y	-43.55	1.5
68	MP1C	My	.031	1.5
69	MP1C	Mz	.018	1.5
70	MP1C	Y	-43.55	3.5
71	MP1C	My	.031	3.5
72	MP1C	Mz	.018	3.5
73	O1	Y	-32	1
74	O1	My	0	1
75	O1	Mz	0	1
76	MP3A	Y	-84.4	1
77	MP3A	My	.042	1
78	MP3A	Mz	0	1
79	MP3B	Y	-84.4	1
80	MP3B	My	-.021	1
81	MP3B	Mz	.037	1
82	MP3C	Y	-84.4	1
83	MP3C	My	-.021	1
84	MP3C	Mz	-.037	1
85	MP2A	Y	-70.3	1
86	MP2A	My	.035	1
87	MP2A	Mz	0	1
88	MP2B	Y	-70.3	1
89	MP2B	My	-.018	1
90	MP2B	Mz	.03	1
91	MP2C	Y	-70.3	1
92	MP2C	My	-.018	1
93	MP2C	Mz	-.03	1
94	MP5A	Y	-55	1
95	MP5A	My	0	1
96	MP5A	Mz	0	1
97	MP5B	Y	-55	1
98	MP5B	My	0	1
99	MP5B	Mz	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	Y	-48.242	.5
2	MP4A	My	-.032	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
3	MP4A	Mz	0	.5
4	MP4A	Y	-48.242	4.5
5	MP4A	My	-.032	4.5
6	MP4A	Mz	0	4.5
7	MP4B	Y	-42.581	.5
8	MP4B	My	0	.5
9	MP4B	Mz	-.035	.5
10	MP4B	Y	-42.581	4.5
11	MP4B	My	0	4.5
12	MP4B	Mz	-.035	4.5
13	MP4C	Y	-42.581	.5
14	MP4C	My	.031	.5
15	MP4C	Mz	.018	.5
16	MP4C	Y	-42.581	4.5
17	MP4C	My	.031	4.5
18	MP4C	Mz	.018	4.5
19	MP2B	Y	-69.375	.5
20	MP2B	My	.04	.5
21	MP2B	Mz	-.058	.5
22	MP2B	Y	-69.375	4.5
23	MP2B	My	.04	4.5
24	MP2B	Mz	-.058	4.5
25	MP2C	Y	-69.375	.5
26	MP2C	My	.03	.5
27	MP2C	Mz	.064	.5
28	MP2C	Y	-69.375	4.5
29	MP2C	My	.03	4.5
30	MP2C	Mz	.064	4.5
31	MP2B	Y	-69.375	.5
32	MP2B	My	-.04	.5
33	MP2B	Mz	-.058	.5
34	MP2B	Y	-69.375	4.5
35	MP2B	My	-.04	4.5
36	MP2B	Mz	-.058	4.5
37	MP2C	Y	-69.375	.5
38	MP2C	My	.07	.5
39	MP2C	Mz	-.006	.5
40	MP2C	Y	-69.375	4.5
41	MP2C	My	.07	4.5
42	MP2C	Mz	-.006	4.5
43	MP2A	Y	-93.063	.5
44	MP2A	My	-.078	.5
45	MP2A	Mz	-.078	.5
46	MP2A	Y	-93.063	4.5
47	MP2A	My	-.078	4.5
48	MP2A	Mz	-.078	4.5
49	MP2A	Y	-93.063	.5
50	MP2A	My	-.078	.5
51	MP2A	Mz	.078	.5
52	MP2A	Y	-93.063	4.5
53	MP2A	My	-.078	4.5
54	MP2A	Mz	.078	4.5
55	MP1A	Y	-34.079	1.5
56	MP1A	My	-.028	1.5
57	MP1A	Mz	0	1.5
58	MP1A	Y	-34.079	3.5
59	MP1A	My	-.028	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
60	MP1A	Mz	0	3.5
61	MP1B	Y	-34.079	1.5
62	MP1B	My	0	1.5
63	MP1B	Mz	-.028	1.5
64	MP1B	Y	-34.079	3.5
65	MP1B	My	0	3.5
66	MP1B	Mz	-.028	3.5
67	MP1C	Y	-34.079	1.5
68	MP1C	My	.025	1.5
69	MP1C	Mz	.014	1.5
70	MP1C	Y	-34.079	3.5
71	MP1C	My	.025	3.5
72	MP1C	Mz	.014	3.5
73	O1	Y	-72.706	1
74	O1	My	0	1
75	O1	Mz	0	1
76	MP3A	Y	-42.938	1
77	MP3A	My	.021	1
78	MP3A	Mz	0	1
79	MP3B	Y	-42.938	1
80	MP3B	My	-.011	1
81	MP3B	Mz	.019	1
82	MP3C	Y	-42.938	1
83	MP3C	My	-.011	1
84	MP3C	Mz	-.019	1
85	MP2A	Y	-38.602	1
86	MP2A	My	.019	1
87	MP2A	Mz	0	1
88	MP2B	Y	-38.602	1
89	MP2B	My	-.01	1
90	MP2B	Mz	.017	1
91	MP2C	Y	-38.602	1
92	MP2C	My	-.01	1
93	MP2C	Mz	-.017	1
94	MP5A	Y	-42.192	1
95	MP5A	My	0	1
96	MP5A	Mz	0	1
97	MP5B	Y	-42.192	1
98	MP5B	My	0	1
99	MP5B	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	0	.5
2	MP4A	Z	-100.595	.5
3	MP4A	Mx	0	.5
4	MP4A	X	0	4.5
5	MP4A	Z	-100.595	4.5
6	MP4A	Mx	0	4.5
7	MP4B	X	0	.5
8	MP4B	Z	-63.194	.5
9	MP4B	Mx	.053	.5
10	MP4B	X	0	4.5
11	MP4B	Z	-63.194	4.5
12	MP4B	Mx	.053	4.5
13	MP4C	X	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
14	MP4C	Z	-75.657	.5
15	MP4C	Mx	-.032	.5
16	MP4C	X	0	4.5
17	MP4C	Z	-75.657	4.5
18	MP4C	Mx	-.032	4.5
19	MP2B	X	0	.5
20	MP2B	Z	-101.675	.5
21	MP2B	Mx	.085	.5
22	MP2B	X	0	4.5
23	MP2B	Z	-101.675	4.5
24	MP2B	Mx	.085	4.5
25	MP2C	X	0	.5
26	MP2C	Z	-110.114	.5
27	MP2C	Mx	-.102	.5
28	MP2C	X	0	4.5
29	MP2C	Z	-110.114	4.5
30	MP2C	Mx	-.102	4.5
31	MP2B	X	0	.5
32	MP2B	Z	-101.675	.5
33	MP2B	Mx	.085	.5
34	MP2B	X	0	4.5
35	MP2B	Z	-101.675	4.5
36	MP2B	Mx	.085	4.5
37	MP2C	X	0	.5
38	MP2C	Z	-110.114	.5
39	MP2C	Mx	.01	.5
40	MP2C	X	0	4.5
41	MP2C	Z	-110.114	4.5
42	MP2C	Mx	.01	4.5
43	MP2A	X	0	.5
44	MP2A	Z	-136.76	.5
45	MP2A	Mx	.114	.5
46	MP2A	X	0	4.5
47	MP2A	Z	-136.76	4.5
48	MP2A	Mx	.114	4.5
49	MP2A	X	0	.5
50	MP2A	Z	-136.76	.5
51	MP2A	Mx	-.114	.5
52	MP2A	X	0	4.5
53	MP2A	Z	-136.76	4.5
54	MP2A	Mx	-.114	4.5
55	MP1A	X	0	1.5
56	MP1A	Z	-65.124	1.5
57	MP1A	Mx	0	1.5
58	MP1A	X	0	3.5
59	MP1A	Z	-65.124	3.5
60	MP1A	Mx	0	3.5
61	MP1B	X	0	1.5
62	MP1B	Z	-25.496	1.5
63	MP1B	Mx	.021	1.5
64	MP1B	X	0	3.5
65	MP1B	Z	-25.496	3.5
66	MP1B	Mx	.021	3.5
67	MP1C	X	0	1.5
68	MP1C	Z	-55.217	1.5
69	MP1C	Mx	-.023	1.5
70	MP1C	X	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
71	MP1C	Z	-55.217	3.5
72	MP1C	Mx	-.023	3.5
73	O1	X	0	1
74	O1	Z	-105.029	1
75	O1	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	-51.822	1
78	MP3A	Mx	0	1
79	MP3B	X	0	1
80	MP3B	Z	-38.936	1
81	MP3B	Mx	-.017	1
82	MP3C	X	0	1
83	MP3C	Z	-38.936	1
84	MP3C	Mx	.017	1
85	MP2A	X	0	1
86	MP2A	Z	-51.822	1
87	MP2A	Mx	0	1
88	MP2B	X	0	1
89	MP2B	Z	-33.999	1
90	MP2B	Mx	-.015	1
91	MP2C	X	0	1
92	MP2C	Z	-33.999	1
93	MP2C	Mx	.015	1
94	MP5A	X	0	1
95	MP5A	Z	-133.018	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	-133.018	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	44.712	.5
2	MP4A	Z	-77.443	.5
3	MP4A	Mx	-.03	.5
4	MP4A	X	44.712	4.5
5	MP4A	Z	-77.443	4.5
6	MP4A	Mx	-.03	4.5
7	MP4B	X	33.674	.5
8	MP4B	Z	-58.326	.5
9	MP4B	Mx	.049	.5
10	MP4B	X	33.674	4.5
11	MP4B	Z	-58.326	4.5
12	MP4B	Mx	.049	4.5
13	MP4C	X	39.906	.5
14	MP4C	Z	-69.118	.5
15	MP4C	Mx	1e-6	.5
16	MP4C	X	39.906	4.5
17	MP4C	Z	-69.118	4.5
18	MP4C	Mx	1e-6	4.5
19	MP2B	X	52.244	.5
20	MP2B	Z	-90.49	.5
21	MP2B	Mx	.106	.5
22	MP2B	X	52.244	4.5
23	MP2B	Z	-90.49	4.5
24	MP2B	Mx	.106	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2C	X	56.464	.5
26	MP2C	Z	-97.798	.5
27	MP2C	Mx	-.066	.5
28	MP2C	X	56.464	4.5
29	MP2C	Z	-97.798	4.5
30	MP2C	Mx	-.066	4.5
31	MP2B	X	52.244	.5
32	MP2B	Z	-90.49	.5
33	MP2B	Mx	.045	.5
34	MP2B	X	52.244	4.5
35	MP2B	Z	-90.49	4.5
36	MP2B	Mx	.045	4.5
37	MP2C	X	56.464	.5
38	MP2C	Z	-97.798	.5
39	MP2C	Mx	.066	.5
40	MP2C	X	56.464	4.5
41	MP2C	Z	-97.798	4.5
42	MP2C	Mx	.066	4.5
43	MP2A	X	64.146	.5
44	MP2A	Z	-111.104	.5
45	MP2A	Mx	.039	.5
46	MP2A	X	64.146	4.5
47	MP2A	Z	-111.104	4.5
48	MP2A	Mx	.039	4.5
49	MP2A	X	64.146	.5
50	MP2A	Z	-111.104	.5
51	MP2A	Mx	-.146	.5
52	MP2A	X	64.146	4.5
53	MP2A	Z	-111.104	4.5
54	MP2A	Mx	-.146	4.5
55	MP1A	X	27.608	1.5
56	MP1A	Z	-47.819	1.5
57	MP1A	Mx	-.023	1.5
58	MP1A	X	27.608	3.5
59	MP1A	Z	-47.819	3.5
60	MP1A	Mx	-.023	3.5
61	MP1B	X	17.701	1.5
62	MP1B	Z	-30.66	1.5
63	MP1B	Mx	.026	1.5
64	MP1B	X	17.701	3.5
65	MP1B	Z	-30.66	3.5
66	MP1B	Mx	.026	3.5
67	MP1C	X	32.562	1.5
68	MP1C	Z	-56.399	1.5
69	MP1C	Mx	0	1.5
70	MP1C	X	32.562	3.5
71	MP1C	Z	-56.399	3.5
72	MP1C	Mx	0	3.5
73	O1	X	48.076	1
74	O1	Z	-83.27	1
75	O1	Mx	0	1
76	MP3A	X	23.763	1
77	MP3A	Z	-41.159	1
78	MP3A	Mx	.012	1
79	MP3B	X	17.32	1
80	MP3B	Z	-29.999	1
81	MP3B	Mx	-.017	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP3C	X	23.763	1
83	MP3C	Z	-41.159	1
84	MP3C	Mx	.012	1
85	MP2A	X	22.94	1
86	MP2A	Z	-39.734	1
87	MP2A	Mx	.011	1
88	MP2B	X	14.029	1
89	MP2B	Z	-24.299	1
90	MP2B	Mx	-.014	1
91	MP2C	X	22.94	1
92	MP2C	Z	-39.734	1
93	MP2C	Mx	.011	1
94	MP5A	X	49.882	1
95	MP5A	Z	-86.398	1
96	MP5A	Mx	0	1
97	MP5B	X	49.882	1
98	MP5B	Z	-86.398	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	58.094	.5
2	MP4A	Z	-33.54	.5
3	MP4A	Mx	-.039	.5
4	MP4A	X	58.094	4.5
5	MP4A	Z	-33.54	4.5
6	MP4A	Mx	-.039	4.5
7	MP4B	X	65.521	.5
8	MP4B	Z	-37.828	.5
9	MP4B	Mx	.032	.5
10	MP4B	X	65.521	4.5
11	MP4B	Z	-37.828	4.5
12	MP4B	Mx	.032	4.5
13	MP4C	X	65.521	.5
14	MP4C	Z	-37.828	.5
15	MP4C	Mx	.032	.5
16	MP4C	X	65.521	4.5
17	MP4C	Z	-37.828	4.5
18	MP4C	Mx	.032	4.5
19	MP2B	X	95.362	.5
20	MP2B	Z	-55.057	.5
21	MP2B	Mx	.102	.5
22	MP2B	X	95.362	4.5
23	MP2B	Z	-55.057	4.5
24	MP2B	Mx	.102	4.5
25	MP2C	X	95.362	.5
26	MP2C	Z	-55.057	.5
27	MP2C	Mx	-.01	.5
28	MP2C	X	95.362	4.5
29	MP2C	Z	-55.057	4.5
30	MP2C	Mx	-.01	4.5
31	MP2B	X	95.362	.5
32	MP2B	Z	-55.057	.5
33	MP2B	Mx	-.01	.5
34	MP2B	X	95.362	4.5
35	MP2B	Z	-55.057	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2B	Mx	-.01	4.5
37	MP2C	X	95.362	.5
38	MP2C	Z	-55.057	.5
39	MP2C	Mx	.102	.5
40	MP2C	X	95.362	4.5
41	MP2C	Z	-55.057	4.5
42	MP2C	Mx	.102	4.5
43	MP2A	X	96.438	.5
44	MP2A	Z	-55.678	.5
45	MP2A	Mx	-.034	.5
46	MP2A	X	96.438	4.5
47	MP2A	Z	-55.678	4.5
48	MP2A	Mx	-.034	4.5
49	MP2A	X	96.438	.5
50	MP2A	Z	-55.678	.5
51	MP2A	Mx	-.127	.5
52	MP2A	X	96.438	4.5
53	MP2A	Z	-55.678	4.5
54	MP2A	Mx	-.127	4.5
55	MP1A	X	30.66	1.5
56	MP1A	Z	-17.701	1.5
57	MP1A	Mx	-.026	1.5
58	MP1A	X	30.66	3.5
59	MP1A	Z	-17.701	3.5
60	MP1A	Mx	-.026	3.5
61	MP1B	X	47.819	1.5
62	MP1B	Z	-27.608	1.5
63	MP1B	Mx	.023	1.5
64	MP1B	X	47.819	3.5
65	MP1B	Z	-27.608	3.5
66	MP1B	Mx	.023	3.5
67	MP1C	X	47.819	1.5
68	MP1C	Z	-27.608	1.5
69	MP1C	Mx	.023	1.5
70	MP1C	X	47.819	3.5
71	MP1C	Z	-27.608	3.5
72	MP1C	Mx	.023	3.5
73	O1	X	67.895	1
74	O1	Z	-39.199	1
75	O1	Mx	0	1
76	MP3A	X	33.719	1
77	MP3A	Z	-19.468	1
78	MP3A	Mx	.017	1
79	MP3B	X	33.719	1
80	MP3B	Z	-19.468	1
81	MP3B	Mx	-.017	1
82	MP3C	X	44.879	1
83	MP3C	Z	-25.911	1
84	MP3C	Mx	0	1
85	MP2A	X	29.444	1
86	MP2A	Z	-17	1
87	MP2A	Mx	.015	1
88	MP2B	X	29.444	1
89	MP2B	Z	-17	1
90	MP2B	Mx	-.015	1
91	MP2C	X	44.879	1
92	MP2C	Z	-25.911	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
93	MP2C	Mx	0	1
94	MP5A	X	28.799	1
95	MP5A	Z	-16.627	1
96	MP5A	Mx	0	1
97	MP5B	X	28.799	1
98	MP5B	Z	-16.627	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	55.909	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	-.037	.5
4	MP4A	X	55.909	4.5
5	MP4A	Z	0	4.5
6	MP4A	Mx	-.037	4.5
7	MP4B	X	79.811	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	0	.5
10	MP4B	X	79.811	4.5
11	MP4B	Z	0	4.5
12	MP4B	Mx	0	4.5
13	MP4C	X	67.348	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	.049	.5
16	MP4C	X	67.348	4.5
17	MP4C	Z	0	4.5
18	MP4C	Mx	.049	4.5
19	MP2B	X	112.927	.5
20	MP2B	Z	0	.5
21	MP2B	Mx	.066	.5
22	MP2B	X	112.927	4.5
23	MP2B	Z	0	4.5
24	MP2B	Mx	.066	4.5
25	MP2C	X	104.488	.5
26	MP2C	Z	0	.5
27	MP2C	Mx	.045	.5
28	MP2C	X	104.488	4.5
29	MP2C	Z	0	4.5
30	MP2C	Mx	.045	4.5
31	MP2B	X	112.927	.5
32	MP2B	Z	0	.5
33	MP2B	Mx	-.066	.5
34	MP2B	X	112.927	4.5
35	MP2B	Z	0	4.5
36	MP2B	Mx	-.066	4.5
37	MP2C	X	104.488	.5
38	MP2C	Z	0	.5
39	MP2C	Mx	.106	.5
40	MP2C	X	104.488	4.5
41	MP2C	Z	0	4.5
42	MP2C	Mx	.106	4.5
43	MP2A	X	102.889	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	-.086	.5
46	MP2A	X	102.889	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP2A	Z	0	4.5
48	MP2A	Mx	-.086	4.5
49	MP2A	X	102.889	.5
50	MP2A	Z	0	.5
51	MP2A	Mx	-.086	.5
52	MP2A	X	102.889	4.5
53	MP2A	Z	0	4.5
54	MP2A	Mx	-.086	4.5
55	MP1A	X	25.496	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	-.021	1.5
58	MP1A	X	25.496	3.5
59	MP1A	Z	0	3.5
60	MP1A	Mx	-.021	3.5
61	MP1B	X	65.124	1.5
62	MP1B	Z	0	1.5
63	MP1B	Mx	0	1.5
64	MP1B	X	65.124	3.5
65	MP1B	Z	0	3.5
66	MP1B	Mx	0	3.5
67	MP1C	X	35.403	1.5
68	MP1C	Z	0	1.5
69	MP1C	Mx	.026	1.5
70	MP1C	X	35.403	3.5
71	MP1C	Z	0	3.5
72	MP1C	Mx	.026	3.5
73	O1	X	69.521	1
74	O1	Z	0	1
75	O1	Mx	0	1
76	MP3A	X	34.64	1
77	MP3A	Z	0	1
78	MP3A	Mx	.017	1
79	MP3B	X	47.526	1
80	MP3B	Z	0	1
81	MP3B	Mx	-.012	1
82	MP3C	X	47.526	1
83	MP3C	Z	0	1
84	MP3C	Mx	-.012	1
85	MP2A	X	28.059	1
86	MP2A	Z	0	1
87	MP2A	Mx	.014	1
88	MP2B	X	45.881	1
89	MP2B	Z	0	1
90	MP2B	Mx	-.011	1
91	MP2C	X	45.881	1
92	MP2C	Z	0	1
93	MP2C	Mx	-.011	1
94	MP5A	X	0	1
95	MP5A	Z	0	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	0	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	58.094	.5
2	MP4A	Z	33.54	.5
3	MP4A	Mx	-.039	.5
4	MP4A	X	58.094	4.5
5	MP4A	Z	33.54	4.5
6	MP4A	Mx	-.039	4.5
7	MP4B	X	65.521	.5
8	MP4B	Z	37.828	.5
9	MP4B	Mx	-.032	.5
10	MP4B	X	65.521	4.5
11	MP4B	Z	37.828	4.5
12	MP4B	Mx	-.032	4.5
13	MP4C	X	54.728	.5
14	MP4C	Z	31.597	.5
15	MP4C	Mx	.053	.5
16	MP4C	X	54.728	4.5
17	MP4C	Z	31.597	4.5
18	MP4C	Mx	.053	4.5
19	MP2B	X	95.362	.5
20	MP2B	Z	55.057	.5
21	MP2B	Mx	.01	.5
22	MP2B	X	95.362	4.5
23	MP2B	Z	55.057	4.5
24	MP2B	Mx	.01	4.5
25	MP2C	X	88.053	.5
26	MP2C	Z	50.838	.5
27	MP2C	Mx	.085	.5
28	MP2C	X	88.053	4.5
29	MP2C	Z	50.838	4.5
30	MP2C	Mx	.085	4.5
31	MP2B	X	95.362	.5
32	MP2B	Z	55.057	.5
33	MP2B	Mx	-.102	.5
34	MP2B	X	95.362	4.5
35	MP2B	Z	55.057	4.5
36	MP2B	Mx	-.102	4.5
37	MP2C	X	88.053	.5
38	MP2C	Z	50.838	.5
39	MP2C	Mx	.085	.5
40	MP2C	X	88.053	4.5
41	MP2C	Z	50.838	4.5
42	MP2C	Mx	.085	4.5
43	MP2A	X	96.438	.5
44	MP2A	Z	55.678	.5
45	MP2A	Mx	-.127	.5
46	MP2A	X	96.438	4.5
47	MP2A	Z	55.678	4.5
48	MP2A	Mx	-.127	4.5
49	MP2A	X	96.438	.5
50	MP2A	Z	55.678	.5
51	MP2A	Mx	-.034	.5
52	MP2A	X	96.438	4.5
53	MP2A	Z	55.678	4.5
54	MP2A	Mx	-.034	4.5
55	MP1A	X	30.66	1.5
56	MP1A	Z	17.701	1.5
57	MP1A	Mx	-.026	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	30.66	3.5
59	MP1A	Z	17.701	3.5
60	MP1A	Mx	-.026	3.5
61	MP1B	X	47.819	1.5
62	MP1B	Z	27.608	1.5
63	MP1B	Mx	-.023	1.5
64	MP1B	X	47.819	3.5
65	MP1B	Z	27.608	3.5
66	MP1B	Mx	-.023	3.5
67	MP1C	X	22.08	1.5
68	MP1C	Z	12.748	1.5
69	MP1C	Mx	.021	1.5
70	MP1C	X	22.08	3.5
71	MP1C	Z	12.748	3.5
72	MP1C	Mx	.021	3.5
73	O1	X	67.895	1
74	O1	Z	39.199	1
75	O1	Mx	0	1
76	MP3A	X	33.719	1
77	MP3A	Z	19.468	1
78	MP3A	Mx	.017	1
79	MP3B	X	44.879	1
80	MP3B	Z	25.911	1
81	MP3B	Mx	0	1
82	MP3C	X	33.719	1
83	MP3C	Z	19.468	1
84	MP3C	Mx	-.017	1
85	MP2A	X	29.444	1
86	MP2A	Z	17	1
87	MP2A	Mx	.015	1
88	MP2B	X	44.879	1
89	MP2B	Z	25.911	1
90	MP2B	Mx	0	1
91	MP2C	X	29.444	1
92	MP2C	Z	17	1
93	MP2C	Mx	-.015	1
94	MP5A	X	28.799	1
95	MP5A	Z	16.627	1
96	MP5A	Mx	0	1
97	MP5B	X	28.799	1
98	MP5B	Z	16.627	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	44.712	.5
2	MP4A	Z	77.443	.5
3	MP4A	Mx	-.03	.5
4	MP4A	X	44.712	4.5
5	MP4A	Z	77.443	4.5
6	MP4A	Mx	-.03	4.5
7	MP4B	X	33.674	.5
8	MP4B	Z	58.326	.5
9	MP4B	Mx	-.049	.5
10	MP4B	X	33.674	4.5
11	MP4B	Z	58.326	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4B	Mx	-.049	4.5
13	MP4C	X	33.674	.5
14	MP4C	Z	58.326	.5
15	MP4C	Mx	.049	.5
16	MP4C	X	33.674	4.5
17	MP4C	Z	58.326	4.5
18	MP4C	Mx	.049	4.5
19	MP2B	X	52.244	.5
20	MP2B	Z	90.49	.5
21	MP2B	Mx	-.045	.5
22	MP2B	X	52.244	4.5
23	MP2B	Z	90.49	4.5
24	MP2B	Mx	-.045	4.5
25	MP2C	X	52.244	.5
26	MP2C	Z	90.49	.5
27	MP2C	Mx	.106	.5
28	MP2C	X	52.244	4.5
29	MP2C	Z	90.49	4.5
30	MP2C	Mx	.106	4.5
31	MP2B	X	52.244	.5
32	MP2B	Z	90.49	.5
33	MP2B	Mx	-.106	.5
34	MP2B	X	52.244	4.5
35	MP2B	Z	90.49	4.5
36	MP2B	Mx	-.106	4.5
37	MP2C	X	52.244	.5
38	MP2C	Z	90.49	.5
39	MP2C	Mx	.045	.5
40	MP2C	X	52.244	4.5
41	MP2C	Z	90.49	4.5
42	MP2C	Mx	.045	4.5
43	MP2A	X	64.146	.5
44	MP2A	Z	111.104	.5
45	MP2A	Mx	-.146	.5
46	MP2A	X	64.146	4.5
47	MP2A	Z	111.104	4.5
48	MP2A	Mx	-.146	4.5
49	MP2A	X	64.146	.5
50	MP2A	Z	111.104	.5
51	MP2A	Mx	.039	.5
52	MP2A	X	64.146	4.5
53	MP2A	Z	111.104	4.5
54	MP2A	Mx	.039	4.5
55	MP1A	X	27.608	1.5
56	MP1A	Z	47.819	1.5
57	MP1A	Mx	-.023	1.5
58	MP1A	X	27.608	3.5
59	MP1A	Z	47.819	3.5
60	MP1A	Mx	-.023	3.5
61	MP1B	X	17.701	1.5
62	MP1B	Z	30.66	1.5
63	MP1B	Mx	-.026	1.5
64	MP1B	X	17.701	3.5
65	MP1B	Z	30.66	3.5
66	MP1B	Mx	-.026	3.5
67	MP1C	X	17.701	1.5
68	MP1C	Z	30.66	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1C	Mx	.026	1.5
70	MP1C	X	17.701	3.5
71	MP1C	Z	30.66	3.5
72	MP1C	Mx	.026	3.5
73	O1	X	48.076	1
74	O1	Z	83.27	1
75	O1	Mx	0	1
76	MP3A	X	23.763	1
77	MP3A	Z	41.159	1
78	MP3A	Mx	.012	1
79	MP3B	X	23.763	1
80	MP3B	Z	41.159	1
81	MP3B	Mx	.012	1
82	MP3C	X	17.32	1
83	MP3C	Z	29.999	1
84	MP3C	Mx	-.017	1
85	MP2A	X	22.94	1
86	MP2A	Z	39.734	1
87	MP2A	Mx	.011	1
88	MP2B	X	22.94	1
89	MP2B	Z	39.734	1
90	MP2B	Mx	.011	1
91	MP2C	X	14.029	1
92	MP2C	Z	24.299	1
93	MP2C	Mx	-.014	1
94	MP5A	X	49.882	1
95	MP5A	Z	86.398	1
96	MP5A	Mx	0	1
97	MP5B	X	49.882	1
98	MP5B	Z	86.398	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.5
2	MP4A	Z	100.595	.5
3	MP4A	Mx	0	.5
4	MP4A	X	0	4.5
5	MP4A	Z	100.595	4.5
6	MP4A	Mx	0	4.5
7	MP4B	X	0	.5
8	MP4B	Z	63.194	.5
9	MP4B	Mx	-.053	.5
10	MP4B	X	0	4.5
11	MP4B	Z	63.194	4.5
12	MP4B	Mx	-.053	4.5
13	MP4C	X	0	.5
14	MP4C	Z	75.657	.5
15	MP4C	Mx	.032	.5
16	MP4C	X	0	4.5
17	MP4C	Z	75.657	4.5
18	MP4C	Mx	.032	4.5
19	MP2B	X	0	.5
20	MP2B	Z	101.675	.5
21	MP2B	Mx	-.085	.5
22	MP2B	X	0	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2B	Z	101.675	4.5
24	MP2B	Mx	-.085	4.5
25	MP2C	X	0	.5
26	MP2C	Z	110.114	.5
27	MP2C	Mx	.102	.5
28	MP2C	X	0	4.5
29	MP2C	Z	110.114	4.5
30	MP2C	Mx	.102	4.5
31	MP2B	X	0	.5
32	MP2B	Z	101.675	.5
33	MP2B	Mx	-.085	.5
34	MP2B	X	0	4.5
35	MP2B	Z	101.675	4.5
36	MP2B	Mx	-.085	4.5
37	MP2C	X	0	.5
38	MP2C	Z	110.114	.5
39	MP2C	Mx	-.01	.5
40	MP2C	X	0	4.5
41	MP2C	Z	110.114	4.5
42	MP2C	Mx	-.01	4.5
43	MP2A	X	0	.5
44	MP2A	Z	136.76	.5
45	MP2A	Mx	-.114	.5
46	MP2A	X	0	4.5
47	MP2A	Z	136.76	4.5
48	MP2A	Mx	-.114	4.5
49	MP2A	X	0	.5
50	MP2A	Z	136.76	.5
51	MP2A	Mx	.114	.5
52	MP2A	X	0	4.5
53	MP2A	Z	136.76	4.5
54	MP2A	Mx	.114	4.5
55	MP1A	X	0	1.5
56	MP1A	Z	65.124	1.5
57	MP1A	Mx	0	1.5
58	MP1A	X	0	3.5
59	MP1A	Z	65.124	3.5
60	MP1A	Mx	0	3.5
61	MP1B	X	0	1.5
62	MP1B	Z	25.496	1.5
63	MP1B	Mx	-.021	1.5
64	MP1B	X	0	3.5
65	MP1B	Z	25.496	3.5
66	MP1B	Mx	-.021	3.5
67	MP1C	X	0	1.5
68	MP1C	Z	55.217	1.5
69	MP1C	Mx	.023	1.5
70	MP1C	X	0	3.5
71	MP1C	Z	55.217	3.5
72	MP1C	Mx	.023	3.5
73	O1	X	0	1
74	O1	Z	105.029	1
75	O1	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	51.822	1
78	MP3A	Mx	0	1
79	MP3B	X	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
80	MP3B	Z	38.936	1
81	MP3B	Mx	.017	1
82	MP3C	X	0	1
83	MP3C	Z	38.936	1
84	MP3C	Mx	-.017	1
85	MP2A	X	0	1
86	MP2A	Z	51.822	1
87	MP2A	Mx	0	1
88	MP2B	X	0	1
89	MP2B	Z	33.999	1
90	MP2B	Mx	.015	1
91	MP2C	X	0	1
92	MP2C	Z	33.999	1
93	MP2C	Mx	-.015	1
94	MP5A	X	0	1
95	MP5A	Z	133.018	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	133.018	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-44.712	.5
2	MP4A	Z	77.443	.5
3	MP4A	Mx	.03	.5
4	MP4A	X	-44.712	4.5
5	MP4A	Z	77.443	4.5
6	MP4A	Mx	.03	4.5
7	MP4B	X	-33.674	.5
8	MP4B	Z	58.326	.5
9	MP4B	Mx	-.049	.5
10	MP4B	X	-33.674	4.5
11	MP4B	Z	58.326	4.5
12	MP4B	Mx	-.049	4.5
13	MP4C	X	-39.906	.5
14	MP4C	Z	69.118	.5
15	MP4C	Mx	-1e-6	.5
16	MP4C	X	-39.906	4.5
17	MP4C	Z	69.118	4.5
18	MP4C	Mx	-1e-6	4.5
19	MP2B	X	-52.244	.5
20	MP2B	Z	90.49	.5
21	MP2B	Mx	-.106	.5
22	MP2B	X	-52.244	4.5
23	MP2B	Z	90.49	4.5
24	MP2B	Mx	-.106	4.5
25	MP2C	X	-56.464	.5
26	MP2C	Z	97.798	.5
27	MP2C	Mx	.066	.5
28	MP2C	X	-56.464	4.5
29	MP2C	Z	97.798	4.5
30	MP2C	Mx	.066	4.5
31	MP2B	X	-52.244	.5
32	MP2B	Z	90.49	.5
33	MP2B	Mx	-.045	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	-52.244	4.5
35	MP2B	Z	90.49	4.5
36	MP2B	Mx	-.045	4.5
37	MP2C	X	-56.464	.5
38	MP2C	Z	97.798	.5
39	MP2C	Mx	-.066	.5
40	MP2C	X	-56.464	4.5
41	MP2C	Z	97.798	4.5
42	MP2C	Mx	-.066	4.5
43	MP2A	X	-64.146	.5
44	MP2A	Z	111.104	.5
45	MP2A	Mx	-.039	.5
46	MP2A	X	-64.146	4.5
47	MP2A	Z	111.104	4.5
48	MP2A	Mx	-.039	4.5
49	MP2A	X	-64.146	.5
50	MP2A	Z	111.104	.5
51	MP2A	Mx	.146	.5
52	MP2A	X	-64.146	4.5
53	MP2A	Z	111.104	4.5
54	MP2A	Mx	.146	4.5
55	MP1A	X	-27.608	1.5
56	MP1A	Z	47.819	1.5
57	MP1A	Mx	.023	1.5
58	MP1A	X	-27.608	3.5
59	MP1A	Z	47.819	3.5
60	MP1A	Mx	.023	3.5
61	MP1B	X	-17.701	1.5
62	MP1B	Z	30.66	1.5
63	MP1B	Mx	-.026	1.5
64	MP1B	X	-17.701	3.5
65	MP1B	Z	30.66	3.5
66	MP1B	Mx	-.026	3.5
67	MP1C	X	-32.562	1.5
68	MP1C	Z	56.399	1.5
69	MP1C	Mx	0	1.5
70	MP1C	X	-32.562	3.5
71	MP1C	Z	56.399	3.5
72	MP1C	Mx	0	3.5
73	O1	X	-48.076	1
74	O1	Z	83.27	1
75	O1	Mx	0	1
76	MP3A	X	-23.763	1
77	MP3A	Z	41.159	1
78	MP3A	Mx	-.012	1
79	MP3B	X	-17.32	1
80	MP3B	Z	29.999	1
81	MP3B	Mx	.017	1
82	MP3C	X	-23.763	1
83	MP3C	Z	41.159	1
84	MP3C	Mx	-.012	1
85	MP2A	X	-22.94	1
86	MP2A	Z	39.734	1
87	MP2A	Mx	-.011	1
88	MP2B	X	-14.029	1
89	MP2B	Z	24.299	1
90	MP2B	Mx	.014	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
91	MP2C	X	-22.94	1
92	MP2C	Z	39.734	1
93	MP2C	Mx	-.011	1
94	MP5A	X	-49.882	1
95	MP5A	Z	86.398	1
96	MP5A	Mx	0	1
97	MP5B	X	-49.882	1
98	MP5B	Z	86.398	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-58.094	.5
2	MP4A	Z	33.54	.5
3	MP4A	Mx	.039	.5
4	MP4A	X	-58.094	4.5
5	MP4A	Z	33.54	4.5
6	MP4A	Mx	.039	4.5
7	MP4B	X	-65.521	.5
8	MP4B	Z	37.828	.5
9	MP4B	Mx	-.032	.5
10	MP4B	X	-65.521	4.5
11	MP4B	Z	37.828	4.5
12	MP4B	Mx	-.032	4.5
13	MP4C	X	-65.521	.5
14	MP4C	Z	37.828	.5
15	MP4C	Mx	-.032	.5
16	MP4C	X	-65.521	4.5
17	MP4C	Z	37.828	4.5
18	MP4C	Mx	-.032	4.5
19	MP2B	X	-95.362	.5
20	MP2B	Z	55.057	.5
21	MP2B	Mx	-.102	.5
22	MP2B	X	-95.362	4.5
23	MP2B	Z	55.057	4.5
24	MP2B	Mx	-.102	4.5
25	MP2C	X	-95.362	.5
26	MP2C	Z	55.057	.5
27	MP2C	Mx	.01	.5
28	MP2C	X	-95.362	4.5
29	MP2C	Z	55.057	4.5
30	MP2C	Mx	.01	4.5
31	MP2B	X	-95.362	.5
32	MP2B	Z	55.057	.5
33	MP2B	Mx	.01	.5
34	MP2B	X	-95.362	4.5
35	MP2B	Z	55.057	4.5
36	MP2B	Mx	.01	4.5
37	MP2C	X	-95.362	.5
38	MP2C	Z	55.057	.5
39	MP2C	Mx	-.102	.5
40	MP2C	X	-95.362	4.5
41	MP2C	Z	55.057	4.5
42	MP2C	Mx	-.102	4.5
43	MP2A	X	-96.438	.5
44	MP2A	Z	55.678	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	.034	.5
46	MP2A	X	-96.438	4.5
47	MP2A	Z	55.678	4.5
48	MP2A	Mx	.034	4.5
49	MP2A	X	-96.438	.5
50	MP2A	Z	55.678	.5
51	MP2A	Mx	.127	.5
52	MP2A	X	-96.438	4.5
53	MP2A	Z	55.678	4.5
54	MP2A	Mx	.127	4.5
55	MP1A	X	-30.66	1.5
56	MP1A	Z	17.701	1.5
57	MP1A	Mx	.026	1.5
58	MP1A	X	-30.66	3.5
59	MP1A	Z	17.701	3.5
60	MP1A	Mx	.026	3.5
61	MP1B	X	-47.819	1.5
62	MP1B	Z	27.608	1.5
63	MP1B	Mx	-.023	1.5
64	MP1B	X	-47.819	3.5
65	MP1B	Z	27.608	3.5
66	MP1B	Mx	-.023	3.5
67	MP1C	X	-47.819	1.5
68	MP1C	Z	27.608	1.5
69	MP1C	Mx	-.023	1.5
70	MP1C	X	-47.819	3.5
71	MP1C	Z	27.608	3.5
72	MP1C	Mx	-.023	3.5
73	O1	X	-67.895	1
74	O1	Z	39.199	1
75	O1	Mx	0	1
76	MP3A	X	-33.719	1
77	MP3A	Z	19.468	1
78	MP3A	Mx	-.017	1
79	MP3B	X	-33.719	1
80	MP3B	Z	19.468	1
81	MP3B	Mx	.017	1
82	MP3C	X	-44.879	1
83	MP3C	Z	25.911	1
84	MP3C	Mx	0	1
85	MP2A	X	-29.444	1
86	MP2A	Z	17	1
87	MP2A	Mx	-.015	1
88	MP2B	X	-29.444	1
89	MP2B	Z	17	1
90	MP2B	Mx	.015	1
91	MP2C	X	-44.879	1
92	MP2C	Z	25.911	1
93	MP2C	Mx	0	1
94	MP5A	X	-28.799	1
95	MP5A	Z	16.627	1
96	MP5A	Mx	0	1
97	MP5B	X	-28.799	1
98	MP5B	Z	16.627	1
99	MP5B	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-55.909	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	.037	.5
4	MP4A	X	-55.909	4.5
5	MP4A	Z	0	4.5
6	MP4A	Mx	.037	4.5
7	MP4B	X	-79.811	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	0	.5
10	MP4B	X	-79.811	4.5
11	MP4B	Z	0	4.5
12	MP4B	Mx	0	4.5
13	MP4C	X	-67.348	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	-.049	.5
16	MP4C	X	-67.348	4.5
17	MP4C	Z	0	4.5
18	MP4C	Mx	-.049	4.5
19	MP2B	X	-112.927	.5
20	MP2B	Z	0	.5
21	MP2B	Mx	-.066	.5
22	MP2B	X	-112.927	4.5
23	MP2B	Z	0	4.5
24	MP2B	Mx	-.066	4.5
25	MP2C	X	-104.488	.5
26	MP2C	Z	0	.5
27	MP2C	Mx	-.045	.5
28	MP2C	X	-104.488	4.5
29	MP2C	Z	0	4.5
30	MP2C	Mx	-.045	4.5
31	MP2B	X	-112.927	.5
32	MP2B	Z	0	.5
33	MP2B	Mx	.066	.5
34	MP2B	X	-112.927	4.5
35	MP2B	Z	0	4.5
36	MP2B	Mx	.066	4.5
37	MP2C	X	-104.488	.5
38	MP2C	Z	0	.5
39	MP2C	Mx	-.106	.5
40	MP2C	X	-104.488	4.5
41	MP2C	Z	0	4.5
42	MP2C	Mx	-.106	4.5
43	MP2A	X	-102.889	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	.086	.5
46	MP2A	X	-102.889	4.5
47	MP2A	Z	0	4.5
48	MP2A	Mx	.086	4.5
49	MP2A	X	-102.889	.5
50	MP2A	Z	0	.5
51	MP2A	Mx	.086	.5
52	MP2A	X	-102.889	4.5
53	MP2A	Z	0	4.5
54	MP2A	Mx	.086	4.5
55	MP1A	X	-25.496	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	.021	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-25.496	3.5
59	MP1A	Z	0	3.5
60	MP1A	Mx	.021	3.5
61	MP1B	X	-65.124	1.5
62	MP1B	Z	0	1.5
63	MP1B	Mx	0	1.5
64	MP1B	X	-65.124	3.5
65	MP1B	Z	0	3.5
66	MP1B	Mx	0	3.5
67	MP1C	X	-35.403	1.5
68	MP1C	Z	0	1.5
69	MP1C	Mx	-.026	1.5
70	MP1C	X	-35.403	3.5
71	MP1C	Z	0	3.5
72	MP1C	Mx	-.026	3.5
73	O1	X	-69.521	1
74	O1	Z	0	1
75	O1	Mx	0	1
76	MP3A	X	-34.64	1
77	MP3A	Z	0	1
78	MP3A	Mx	-.017	1
79	MP3B	X	-47.526	1
80	MP3B	Z	0	1
81	MP3B	Mx	.012	1
82	MP3C	X	-47.526	1
83	MP3C	Z	0	1
84	MP3C	Mx	.012	1
85	MP2A	X	-28.059	1
86	MP2A	Z	0	1
87	MP2A	Mx	-.014	1
88	MP2B	X	-45.881	1
89	MP2B	Z	0	1
90	MP2B	Mx	.011	1
91	MP2C	X	-45.881	1
92	MP2C	Z	0	1
93	MP2C	Mx	.011	1
94	MP5A	X	0	1
95	MP5A	Z	0	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	0	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-58.094	.5
2	MP4A	Z	-33.54	.5
3	MP4A	Mx	.039	.5
4	MP4A	X	-58.094	4.5
5	MP4A	Z	-33.54	4.5
6	MP4A	Mx	.039	4.5
7	MP4B	X	-65.521	.5
8	MP4B	Z	-37.828	.5
9	MP4B	Mx	.032	.5
10	MP4B	X	-65.521	4.5
11	MP4B	Z	-37.828	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4B	Mx	.032	4.5
13	MP4C	X	-54.728	.5
14	MP4C	Z	-31.597	.5
15	MP4C	Mx	-.053	.5
16	MP4C	X	-54.728	4.5
17	MP4C	Z	-31.597	4.5
18	MP4C	Mx	-.053	4.5
19	MP2B	X	-95.362	.5
20	MP2B	Z	-55.057	.5
21	MP2B	Mx	-.01	.5
22	MP2B	X	-95.362	4.5
23	MP2B	Z	-55.057	4.5
24	MP2B	Mx	-.01	4.5
25	MP2C	X	-88.053	.5
26	MP2C	Z	-50.838	.5
27	MP2C	Mx	-.085	.5
28	MP2C	X	-88.053	4.5
29	MP2C	Z	-50.838	4.5
30	MP2C	Mx	-.085	4.5
31	MP2B	X	-95.362	.5
32	MP2B	Z	-55.057	.5
33	MP2B	Mx	.102	.5
34	MP2B	X	-95.362	4.5
35	MP2B	Z	-55.057	4.5
36	MP2B	Mx	.102	4.5
37	MP2C	X	-88.053	.5
38	MP2C	Z	-50.838	.5
39	MP2C	Mx	-.085	.5
40	MP2C	X	-88.053	4.5
41	MP2C	Z	-50.838	4.5
42	MP2C	Mx	-.085	4.5
43	MP2A	X	-96.438	.5
44	MP2A	Z	-55.678	.5
45	MP2A	Mx	.127	.5
46	MP2A	X	-96.438	4.5
47	MP2A	Z	-55.678	4.5
48	MP2A	Mx	.127	4.5
49	MP2A	X	-96.438	.5
50	MP2A	Z	-55.678	.5
51	MP2A	Mx	.034	.5
52	MP2A	X	-96.438	4.5
53	MP2A	Z	-55.678	4.5
54	MP2A	Mx	.034	4.5
55	MP1A	X	-30.66	1.5
56	MP1A	Z	-17.701	1.5
57	MP1A	Mx	.026	1.5
58	MP1A	X	-30.66	3.5
59	MP1A	Z	-17.701	3.5
60	MP1A	Mx	.026	3.5
61	MP1B	X	-47.819	1.5
62	MP1B	Z	-27.608	1.5
63	MP1B	Mx	.023	1.5
64	MP1B	X	-47.819	3.5
65	MP1B	Z	-27.608	3.5
66	MP1B	Mx	.023	3.5
67	MP1C	X	-22.08	1.5
68	MP1C	Z	-12.748	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
69	MP1C	Mx	-.021	1.5
70	MP1C	X	-22.08	3.5
71	MP1C	Z	-12.748	3.5
72	MP1C	Mx	-.021	3.5
73	O1	X	-67.895	1
74	O1	Z	-39.199	1
75	O1	Mx	0	1
76	MP3A	X	-33.719	1
77	MP3A	Z	-19.468	1
78	MP3A	Mx	-.017	1
79	MP3B	X	-44.879	1
80	MP3B	Z	-25.911	1
81	MP3B	Mx	0	1
82	MP3C	X	-33.719	1
83	MP3C	Z	-19.468	1
84	MP3C	Mx	.017	1
85	MP2A	X	-29.444	1
86	MP2A	Z	-17	1
87	MP2A	Mx	-.015	1
88	MP2B	X	-44.879	1
89	MP2B	Z	-25.911	1
90	MP2B	Mx	0	1
91	MP2C	X	-29.444	1
92	MP2C	Z	-17	1
93	MP2C	Mx	.015	1
94	MP5A	X	-28.799	1
95	MP5A	Z	-16.627	1
96	MP5A	Mx	0	1
97	MP5B	X	-28.799	1
98	MP5B	Z	-16.627	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-44.712	.5
2	MP4A	Z	-77.443	.5
3	MP4A	Mx	.03	.5
4	MP4A	X	-44.712	4.5
5	MP4A	Z	-77.443	4.5
6	MP4A	Mx	.03	4.5
7	MP4B	X	-33.674	.5
8	MP4B	Z	-58.326	.5
9	MP4B	Mx	.049	.5
10	MP4B	X	-33.674	4.5
11	MP4B	Z	-58.326	4.5
12	MP4B	Mx	.049	4.5
13	MP4C	X	-33.674	.5
14	MP4C	Z	-58.326	.5
15	MP4C	Mx	-.049	.5
16	MP4C	X	-33.674	4.5
17	MP4C	Z	-58.326	4.5
18	MP4C	Mx	-.049	4.5
19	MP2B	X	-52.244	.5
20	MP2B	Z	-90.49	.5
21	MP2B	Mx	.045	.5
22	MP2B	X	-52.244	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2B	Z	-90.49	4.5
24	MP2B	Mx	.045	4.5
25	MP2C	X	-52.244	.5
26	MP2C	Z	-90.49	.5
27	MP2C	Mx	-.106	.5
28	MP2C	X	-52.244	4.5
29	MP2C	Z	-90.49	4.5
30	MP2C	Mx	-.106	4.5
31	MP2B	X	-52.244	.5
32	MP2B	Z	-90.49	.5
33	MP2B	Mx	.106	.5
34	MP2B	X	-52.244	4.5
35	MP2B	Z	-90.49	4.5
36	MP2B	Mx	.106	4.5
37	MP2C	X	-52.244	.5
38	MP2C	Z	-90.49	.5
39	MP2C	Mx	-.045	.5
40	MP2C	X	-52.244	4.5
41	MP2C	Z	-90.49	4.5
42	MP2C	Mx	-.045	4.5
43	MP2A	X	-64.146	.5
44	MP2A	Z	-111.104	.5
45	MP2A	Mx	.146	.5
46	MP2A	X	-64.146	4.5
47	MP2A	Z	-111.104	4.5
48	MP2A	Mx	.146	4.5
49	MP2A	X	-64.146	.5
50	MP2A	Z	-111.104	.5
51	MP2A	Mx	-.039	.5
52	MP2A	X	-64.146	4.5
53	MP2A	Z	-111.104	4.5
54	MP2A	Mx	-.039	4.5
55	MP1A	X	-27.608	1.5
56	MP1A	Z	-47.819	1.5
57	MP1A	Mx	.023	1.5
58	MP1A	X	-27.608	3.5
59	MP1A	Z	-47.819	3.5
60	MP1A	Mx	.023	3.5
61	MP1B	X	-17.701	1.5
62	MP1B	Z	-30.66	1.5
63	MP1B	Mx	.026	1.5
64	MP1B	X	-17.701	3.5
65	MP1B	Z	-30.66	3.5
66	MP1B	Mx	.026	3.5
67	MP1C	X	-17.701	1.5
68	MP1C	Z	-30.66	1.5
69	MP1C	Mx	-.026	1.5
70	MP1C	X	-17.701	3.5
71	MP1C	Z	-30.66	3.5
72	MP1C	Mx	-.026	3.5
73	O1	X	-48.076	1
74	O1	Z	-83.27	1
75	O1	Mx	0	1
76	MP3A	X	-23.763	1
77	MP3A	Z	-41.159	1
78	MP3A	Mx	-.012	1
79	MP3B	X	-23.763	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
80	MP3B	Z	-41.159	1
81	MP3B	Mx	-.012	1
82	MP3C	X	-17.32	1
83	MP3C	Z	-29.999	1
84	MP3C	Mx	.017	1
85	MP2A	X	-22.94	1
86	MP2A	Z	-39.734	1
87	MP2A	Mx	-.011	1
88	MP2B	X	-22.94	1
89	MP2B	Z	-39.734	1
90	MP2B	Mx	-.011	1
91	MP2C	X	-14.029	1
92	MP2C	Z	-24.299	1
93	MP2C	Mx	.014	1
94	MP5A	X	-49.882	1
95	MP5A	Z	-86.398	1
96	MP5A	Mx	0	1
97	MP5B	X	-49.882	1
98	MP5B	Z	-86.398	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	0	.5
2	MP4A	Z	-20.656	.5
3	MP4A	Mx	0	.5
4	MP4A	X	0	4.5
5	MP4A	Z	-20.656	4.5
6	MP4A	Mx	0	4.5
7	MP4B	X	0	.5
8	MP4B	Z	-13.639	.5
9	MP4B	Mx	.011	.5
10	MP4B	X	0	4.5
11	MP4B	Z	-13.639	4.5
12	MP4B	Mx	.011	4.5
13	MP4C	X	0	.5
14	MP4C	Z	-16.055	.5
15	MP4C	Mx	-.007	.5
16	MP4C	X	0	4.5
17	MP4C	Z	-16.055	4.5
18	MP4C	Mx	-.007	4.5
19	MP2B	X	0	.5
20	MP2B	Z	-20.876	.5
21	MP2B	Mx	.017	.5
22	MP2B	X	0	4.5
23	MP2B	Z	-20.876	4.5
24	MP2B	Mx	.017	4.5
25	MP2C	X	0	.5
26	MP2C	Z	-22.494	.5
27	MP2C	Mx	-.021	.5
28	MP2C	X	0	4.5
29	MP2C	Z	-22.494	4.5
30	MP2C	Mx	-.021	4.5
31	MP2B	X	0	.5
32	MP2B	Z	-20.876	.5
33	MP2B	Mx	.017	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	0	4.5
35	MP2B	Z	-20.876	4.5
36	MP2B	Mx	.017	4.5
37	MP2C	X	0	.5
38	MP2C	Z	-22.494	.5
39	MP2C	Mx	.002	.5
40	MP2C	X	0	4.5
41	MP2C	Z	-22.494	4.5
42	MP2C	Mx	.002	4.5
43	MP2A	X	0	.5
44	MP2A	Z	-34.252	.5
45	MP2A	Mx	.029	.5
46	MP2A	X	0	4.5
47	MP2A	Z	-34.252	4.5
48	MP2A	Mx	.029	4.5
49	MP2A	X	0	.5
50	MP2A	Z	-34.252	.5
51	MP2A	Mx	-.029	.5
52	MP2A	X	0	4.5
53	MP2A	Z	-34.252	4.5
54	MP2A	Mx	-.029	4.5
55	MP1A	X	0	1.5
56	MP1A	Z	-13.606	1.5
57	MP1A	Mx	0	1.5
58	MP1A	X	0	3.5
59	MP1A	Z	-13.606	3.5
60	MP1A	Mx	0	3.5
61	MP1B	X	0	1.5
62	MP1B	Z	-5.776	1.5
63	MP1B	Mx	.005	1.5
64	MP1B	X	0	3.5
65	MP1B	Z	-5.776	3.5
66	MP1B	Mx	.005	3.5
67	MP1C	X	0	1.5
68	MP1C	Z	-11.649	1.5
69	MP1C	Mx	-.005	1.5
70	MP1C	X	0	3.5
71	MP1C	Z	-11.649	3.5
72	MP1C	Mx	-.005	3.5
73	O1	X	0	1
74	O1	Z	-22.067	1
75	O1	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	-11.443	1
78	MP3A	Mx	0	1
79	MP3B	X	0	1
80	MP3B	Z	-8.821	1
81	MP3B	Mx	-.004	1
82	MP3C	X	0	1
83	MP3C	Z	-8.821	1
84	MP3C	Mx	.004	1
85	MP2A	X	0	1
86	MP2A	Z	-11.443	1
87	MP2A	Mx	0	1
88	MP2B	X	0	1
89	MP2B	Z	-7.825	1
90	MP2B	Mx	-.003	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
91	MP2C	X	0	1
92	MP2C	Z	-7.825	1
93	MP2C	Mx	.003	1
94	MP5A	X	0	1
95	MP5A	Z	-43.485	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	-43.485	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	9.271	.5
2	MP4A	Z	-16.058	.5
3	MP4A	Mx	-.006	.5
4	MP4A	X	9.271	4.5
5	MP4A	Z	-16.058	4.5
6	MP4A	Mx	-.006	4.5
7	MP4B	X	7.222	.5
8	MP4B	Z	-12.509	.5
9	MP4B	Mx	.01	.5
10	MP4B	X	7.222	4.5
11	MP4B	Z	-12.509	4.5
12	MP4B	Mx	.01	4.5
13	MP4C	X	8.43	.5
14	MP4C	Z	-14.602	.5
15	MP4C	Mx	0	.5
16	MP4C	X	8.43	4.5
17	MP4C	Z	-14.602	4.5
18	MP4C	Mx	0	4.5
19	MP2B	X	10.707	.5
20	MP2B	Z	-18.546	.5
21	MP2B	Mx	.022	.5
22	MP2B	X	10.707	4.5
23	MP2B	Z	-18.546	4.5
24	MP2B	Mx	.022	4.5
25	MP2C	X	11.517	.5
26	MP2C	Z	-19.947	.5
27	MP2C	Mx	-.013	.5
28	MP2C	X	11.517	4.5
29	MP2C	Z	-19.947	4.5
30	MP2C	Mx	-.013	4.5
31	MP2B	X	10.707	.5
32	MP2B	Z	-18.546	.5
33	MP2B	Mx	.009	.5
34	MP2B	X	10.707	4.5
35	MP2B	Z	-18.546	4.5
36	MP2B	Mx	.009	4.5
37	MP2C	X	11.517	.5
38	MP2C	Z	-19.947	.5
39	MP2C	Mx	.013	.5
40	MP2C	X	11.517	4.5
41	MP2C	Z	-19.947	4.5
42	MP2C	Mx	.013	4.5
43	MP2A	X	15.484	.5
44	MP2A	Z	-26.818	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	.009	.5
46	MP2A	X	15.484	4.5
47	MP2A	Z	-26.818	4.5
48	MP2A	Mx	.009	4.5
49	MP2A	X	15.484	.5
50	MP2A	Z	-26.818	.5
51	MP2A	Mx	-.035	.5
52	MP2A	X	15.484	4.5
53	MP2A	Z	-26.818	4.5
54	MP2A	Mx	-.035	4.5
55	MP1A	X	5.824	1.5
56	MP1A	Z	-10.088	1.5
57	MP1A	Mx	-.005	1.5
58	MP1A	X	5.824	3.5
59	MP1A	Z	-10.088	3.5
60	MP1A	Mx	-.005	3.5
61	MP1B	X	3.867	1.5
62	MP1B	Z	-6.698	1.5
63	MP1B	Mx	.006	1.5
64	MP1B	X	3.867	3.5
65	MP1B	Z	-6.698	3.5
66	MP1B	Mx	.006	3.5
67	MP1C	X	6.803	1.5
68	MP1C	Z	-11.783	1.5
69	MP1C	Mx	0	1.5
70	MP1C	X	6.803	3.5
71	MP1C	Z	-11.783	3.5
72	MP1C	Mx	0	3.5
73	O1	X	10.159	1
74	O1	Z	-17.596	1
75	O1	Mx	0	1
76	MP3A	X	5.284	1
77	MP3A	Z	-9.153	1
78	MP3A	Mx	.003	1
79	MP3B	X	3.974	1
80	MP3B	Z	-6.882	1
81	MP3B	Mx	-.004	1
82	MP3C	X	5.284	1
83	MP3C	Z	-9.153	1
84	MP3C	Mx	.003	1
85	MP2A	X	5.118	1
86	MP2A	Z	-8.865	1
87	MP2A	Mx	.003	1
88	MP2B	X	3.309	1
89	MP2B	Z	-5.732	1
90	MP2B	Mx	-.003	1
91	MP2C	X	5.118	1
92	MP2C	Z	-8.865	1
93	MP2C	Mx	.003	1
94	MP5A	X	21.742	1
95	MP5A	Z	-37.659	1
96	MP5A	Mx	0	1
97	MP5B	X	21.742	1
98	MP5B	Z	-37.659	1
99	MP5B	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	12.397	.5
2	MP4A	Z	-7.157	.5
3	MP4A	Mx	-.008	.5
4	MP4A	X	12.397	4.5
5	MP4A	Z	-7.157	4.5
6	MP4A	Mx	-.008	4.5
7	MP4B	X	13.904	.5
8	MP4B	Z	-8.028	.5
9	MP4B	Mx	.007	.5
10	MP4B	X	13.904	4.5
11	MP4B	Z	-8.028	4.5
12	MP4B	Mx	.007	4.5
13	MP4C	X	13.904	.5
14	MP4C	Z	-8.028	.5
15	MP4C	Mx	.007	.5
16	MP4C	X	13.904	4.5
17	MP4C	Z	-8.028	4.5
18	MP4C	Mx	.007	4.5
19	MP2B	X	19.48	.5
20	MP2B	Z	-11.247	.5
21	MP2B	Mx	.021	.5
22	MP2B	X	19.48	4.5
23	MP2B	Z	-11.247	4.5
24	MP2B	Mx	.021	4.5
25	MP2C	X	19.48	.5
26	MP2C	Z	-11.247	.5
27	MP2C	Mx	-.002	.5
28	MP2C	X	19.48	4.5
29	MP2C	Z	-11.247	4.5
30	MP2C	Mx	-.002	4.5
31	MP2B	X	19.48	.5
32	MP2B	Z	-11.247	.5
33	MP2B	Mx	-.002	.5
34	MP2B	X	19.48	4.5
35	MP2B	Z	-11.247	4.5
36	MP2B	Mx	-.002	4.5
37	MP2C	X	19.48	.5
38	MP2C	Z	-11.247	.5
39	MP2C	Mx	.021	.5
40	MP2C	X	19.48	4.5
41	MP2C	Z	-11.247	4.5
42	MP2C	Mx	.021	4.5
43	MP2A	X	21.13	.5
44	MP2A	Z	-12.199	.5
45	MP2A	Mx	-.007	.5
46	MP2A	X	21.13	4.5
47	MP2A	Z	-12.199	4.5
48	MP2A	Mx	-.007	4.5
49	MP2A	X	21.13	.5
50	MP2A	Z	-12.199	.5
51	MP2A	Mx	-.028	.5
52	MP2A	X	21.13	4.5
53	MP2A	Z	-12.199	4.5
54	MP2A	Mx	-.028	4.5
55	MP1A	X	6.698	1.5
56	MP1A	Z	-3.867	1.5
57	MP1A	Mx	-.006	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	6.698	3.5
59	MP1A	Z	-3.867	3.5
60	MP1A	Mx	-.006	3.5
61	MP1B	X	10.088	1.5
62	MP1B	Z	-5.824	1.5
63	MP1B	Mx	.005	1.5
64	MP1B	X	10.088	3.5
65	MP1B	Z	-5.824	3.5
66	MP1B	Mx	.005	3.5
67	MP1C	X	10.088	1.5
68	MP1C	Z	-5.824	1.5
69	MP1C	Mx	.005	1.5
70	MP1C	X	10.088	3.5
71	MP1C	Z	-5.824	3.5
72	MP1C	Mx	.005	3.5
73	O1	X	14.567	1
74	O1	Z	-8.41	1
75	O1	Mx	0	1
76	MP3A	X	7.639	1
77	MP3A	Z	-4.41	1
78	MP3A	Mx	.004	1
79	MP3B	X	7.639	1
80	MP3B	Z	-4.41	1
81	MP3B	Mx	-.004	1
82	MP3C	X	9.91	1
83	MP3C	Z	-5.721	1
84	MP3C	Mx	0	1
85	MP2A	X	6.776	1
86	MP2A	Z	-3.912	1
87	MP2A	Mx	.003	1
88	MP2B	X	6.776	1
89	MP2B	Z	-3.912	1
90	MP2B	Mx	-.003	1
91	MP2C	X	9.91	1
92	MP2C	Z	-5.721	1
93	MP2C	Mx	0	1
94	MP5A	X	37.659	1
95	MP5A	Z	-21.742	1
96	MP5A	Mx	0	1
97	MP5B	X	37.659	1
98	MP5B	Z	-21.742	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	12.201	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	-.008	.5
4	MP4A	X	12.201	4.5
5	MP4A	Z	0	4.5
6	MP4A	Mx	-.008	4.5
7	MP4B	X	16.861	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	0	.5
10	MP4B	X	16.861	4.5
11	MP4B	Z	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4B	Mx	0	4.5
13	MP4C	X	14.445	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	.01	.5
16	MP4C	X	14.445	4.5
17	MP4C	Z	0	4.5
18	MP4C	Mx	.01	4.5
19	MP2B	X	23.033	.5
20	MP2B	Z	0	.5
21	MP2B	Mx	.013	.5
22	MP2B	X	23.033	4.5
23	MP2B	Z	0	4.5
24	MP2B	Mx	.013	4.5
25	MP2C	X	21.415	.5
26	MP2C	Z	0	.5
27	MP2C	Mx	.009	.5
28	MP2C	X	21.415	4.5
29	MP2C	Z	0	4.5
30	MP2C	Mx	.009	4.5
31	MP2B	X	23.033	.5
32	MP2B	Z	0	.5
33	MP2B	Mx	-.013	.5
34	MP2B	X	23.033	4.5
35	MP2B	Z	0	4.5
36	MP2B	Mx	-.013	4.5
37	MP2C	X	21.415	.5
38	MP2C	Z	0	.5
39	MP2C	Mx	.022	.5
40	MP2C	X	21.415	4.5
41	MP2C	Z	0	4.5
42	MP2C	Mx	.022	4.5
43	MP2A	X	21.114	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	-.018	.5
46	MP2A	X	21.114	4.5
47	MP2A	Z	0	4.5
48	MP2A	Mx	-.018	4.5
49	MP2A	X	21.114	.5
50	MP2A	Z	0	.5
51	MP2A	Mx	-.018	.5
52	MP2A	X	21.114	4.5
53	MP2A	Z	0	4.5
54	MP2A	Mx	-.018	4.5
55	MP1A	X	5.776	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	-.005	1.5
58	MP1A	X	5.776	3.5
59	MP1A	Z	0	3.5
60	MP1A	Mx	-.005	3.5
61	MP1B	X	13.606	1.5
62	MP1B	Z	0	1.5
63	MP1B	Mx	0	1.5
64	MP1B	X	13.606	3.5
65	MP1B	Z	0	3.5
66	MP1B	Mx	0	3.5
67	MP1C	X	7.734	1.5
68	MP1C	Z	0	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
69	MP1C	Mx	.006	1.5
70	MP1C	X	7.734	3.5
71	MP1C	Z	0	3.5
72	MP1C	Mx	.006	3.5
73	O1	X	15.071	1
74	O1	Z	0	1
75	O1	Mx	0	1
76	MP3A	X	7.947	1
77	MP3A	Z	0	1
78	MP3A	Mx	.004	1
79	MP3B	X	10.569	1
80	MP3B	Z	0	1
81	MP3B	Mx	-.003	1
82	MP3C	X	10.569	1
83	MP3C	Z	0	1
84	MP3C	Mx	-.003	1
85	MP2A	X	6.619	1
86	MP2A	Z	0	1
87	MP2A	Mx	.003	1
88	MP2B	X	10.237	1
89	MP2B	Z	0	1
90	MP2B	Mx	-.003	1
91	MP2C	X	10.237	1
92	MP2C	Z	0	1
93	MP2C	Mx	-.003	1
94	MP5A	X	43.485	1
95	MP5A	Z	0	1
96	MP5A	Mx	0	1
97	MP5B	X	43.485	1
98	MP5B	Z	0	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	12.397	.5
2	MP4A	Z	7.157	.5
3	MP4A	Mx	-.008	.5
4	MP4A	X	12.397	4.5
5	MP4A	Z	7.157	4.5
6	MP4A	Mx	-.008	4.5
7	MP4B	X	13.904	.5
8	MP4B	Z	8.028	.5
9	MP4B	Mx	-.007	.5
10	MP4B	X	13.904	4.5
11	MP4B	Z	8.028	4.5
12	MP4B	Mx	-.007	4.5
13	MP4C	X	11.812	.5
14	MP4C	Z	6.82	.5
15	MP4C	Mx	.011	.5
16	MP4C	X	11.812	4.5
17	MP4C	Z	6.82	4.5
18	MP4C	Mx	.011	4.5
19	MP2B	X	19.48	.5
20	MP2B	Z	11.247	.5
21	MP2B	Mx	.002	.5
22	MP2B	X	19.48	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2B	Z	11.247	4.5
24	MP2B	Mx	.002	4.5
25	MP2C	X	18.079	.5
26	MP2C	Z	10.438	.5
27	MP2C	Mx	.017	.5
28	MP2C	X	18.079	4.5
29	MP2C	Z	10.438	4.5
30	MP2C	Mx	.017	4.5
31	MP2B	X	19.48	.5
32	MP2B	Z	11.247	.5
33	MP2B	Mx	-.021	.5
34	MP2B	X	19.48	4.5
35	MP2B	Z	11.247	4.5
36	MP2B	Mx	-.021	4.5
37	MP2C	X	18.079	.5
38	MP2C	Z	10.438	.5
39	MP2C	Mx	.017	.5
40	MP2C	X	18.079	4.5
41	MP2C	Z	10.438	4.5
42	MP2C	Mx	.017	4.5
43	MP2A	X	21.13	.5
44	MP2A	Z	12.199	.5
45	MP2A	Mx	-.028	.5
46	MP2A	X	21.13	4.5
47	MP2A	Z	12.199	4.5
48	MP2A	Mx	-.028	4.5
49	MP2A	X	21.13	.5
50	MP2A	Z	12.199	.5
51	MP2A	Mx	-.007	.5
52	MP2A	X	21.13	4.5
53	MP2A	Z	12.199	4.5
54	MP2A	Mx	-.007	4.5
55	MP1A	X	6.698	1.5
56	MP1A	Z	3.867	1.5
57	MP1A	Mx	-.006	1.5
58	MP1A	X	6.698	3.5
59	MP1A	Z	3.867	3.5
60	MP1A	Mx	-.006	3.5
61	MP1B	X	10.088	1.5
62	MP1B	Z	5.824	1.5
63	MP1B	Mx	-.005	1.5
64	MP1B	X	10.088	3.5
65	MP1B	Z	5.824	3.5
66	MP1B	Mx	-.005	3.5
67	MP1C	X	5.002	1.5
68	MP1C	Z	2.888	1.5
69	MP1C	Mx	.005	1.5
70	MP1C	X	5.002	3.5
71	MP1C	Z	2.888	3.5
72	MP1C	Mx	.005	3.5
73	O1	X	14.567	1
74	O1	Z	8.41	1
75	O1	Mx	0	1
76	MP3A	X	7.639	1
77	MP3A	Z	4.41	1
78	MP3A	Mx	.004	1
79	MP3B	X	9.91	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
80	MP3B	Z	5.721	1
81	MP3B	Mx	0	1
82	MP3C	X	7.639	1
83	MP3C	Z	4.41	1
84	MP3C	Mx	-.004	1
85	MP2A	X	6.776	1
86	MP2A	Z	3.912	1
87	MP2A	Mx	.003	1
88	MP2B	X	9.91	1
89	MP2B	Z	5.721	1
90	MP2B	Mx	0	1
91	MP2C	X	6.776	1
92	MP2C	Z	3.912	1
93	MP2C	Mx	-.003	1
94	MP5A	X	37.659	1
95	MP5A	Z	21.742	1
96	MP5A	Mx	0	1
97	MP5B	X	37.659	1
98	MP5B	Z	21.742	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	9.271	.5
2	MP4A	Z	16.058	.5
3	MP4A	Mx	-.006	.5
4	MP4A	X	9.271	4.5
5	MP4A	Z	16.058	4.5
6	MP4A	Mx	-.006	4.5
7	MP4B	X	7.222	.5
8	MP4B	Z	12.509	.5
9	MP4B	Mx	-.01	.5
10	MP4B	X	7.222	4.5
11	MP4B	Z	12.509	4.5
12	MP4B	Mx	-.01	4.5
13	MP4C	X	7.222	.5
14	MP4C	Z	12.509	.5
15	MP4C	Mx	.01	.5
16	MP4C	X	7.222	4.5
17	MP4C	Z	12.509	4.5
18	MP4C	Mx	.01	4.5
19	MP2B	X	10.707	.5
20	MP2B	Z	18.546	.5
21	MP2B	Mx	-.009	.5
22	MP2B	X	10.707	4.5
23	MP2B	Z	18.546	4.5
24	MP2B	Mx	-.009	4.5
25	MP2C	X	10.707	.5
26	MP2C	Z	18.546	.5
27	MP2C	Mx	.022	.5
28	MP2C	X	10.707	4.5
29	MP2C	Z	18.546	4.5
30	MP2C	Mx	.022	4.5
31	MP2B	X	10.707	.5
32	MP2B	Z	18.546	.5
33	MP2B	Mx	-.022	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	10.707	4.5
35	MP2B	Z	18.546	4.5
36	MP2B	Mx	-.022	4.5
37	MP2C	X	10.707	.5
38	MP2C	Z	18.546	.5
39	MP2C	Mx	.009	.5
40	MP2C	X	10.707	4.5
41	MP2C	Z	18.546	4.5
42	MP2C	Mx	.009	4.5
43	MP2A	X	15.484	.5
44	MP2A	Z	26.818	.5
45	MP2A	Mx	-.035	.5
46	MP2A	X	15.484	4.5
47	MP2A	Z	26.818	4.5
48	MP2A	Mx	-.035	4.5
49	MP2A	X	15.484	.5
50	MP2A	Z	26.818	.5
51	MP2A	Mx	.009	.5
52	MP2A	X	15.484	4.5
53	MP2A	Z	26.818	4.5
54	MP2A	Mx	.009	4.5
55	MP1A	X	5.824	1.5
56	MP1A	Z	10.088	1.5
57	MP1A	Mx	-.005	1.5
58	MP1A	X	5.824	3.5
59	MP1A	Z	10.088	3.5
60	MP1A	Mx	-.005	3.5
61	MP1B	X	3.867	1.5
62	MP1B	Z	6.698	1.5
63	MP1B	Mx	-.006	1.5
64	MP1B	X	3.867	3.5
65	MP1B	Z	6.698	3.5
66	MP1B	Mx	-.006	3.5
67	MP1C	X	3.867	1.5
68	MP1C	Z	6.698	1.5
69	MP1C	Mx	.006	1.5
70	MP1C	X	3.867	3.5
71	MP1C	Z	6.698	3.5
72	MP1C	Mx	.006	3.5
73	O1	X	10.159	1
74	O1	Z	17.596	1
75	O1	Mx	0	1
76	MP3A	X	5.284	1
77	MP3A	Z	9.153	1
78	MP3A	Mx	.003	1
79	MP3B	X	5.284	1
80	MP3B	Z	9.153	1
81	MP3B	Mx	.003	1
82	MP3C	X	3.974	1
83	MP3C	Z	6.882	1
84	MP3C	Mx	-.004	1
85	MP2A	X	5.118	1
86	MP2A	Z	8.865	1
87	MP2A	Mx	.003	1
88	MP2B	X	5.118	1
89	MP2B	Z	8.865	1
90	MP2B	Mx	.003	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
91	MP2C	X	3.309	1
92	MP2C	Z	5.732	1
93	MP2C	Mx	-.003	1
94	MP5A	X	21.742	1
95	MP5A	Z	37.659	1
96	MP5A	Mx	0	1
97	MP5B	X	21.742	1
98	MP5B	Z	37.659	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	0	.5
2	MP4A	Z	20.656	.5
3	MP4A	Mx	0	.5
4	MP4A	X	0	4.5
5	MP4A	Z	20.656	4.5
6	MP4A	Mx	0	4.5
7	MP4B	X	0	.5
8	MP4B	Z	13.639	.5
9	MP4B	Mx	-.011	.5
10	MP4B	X	0	4.5
11	MP4B	Z	13.639	4.5
12	MP4B	Mx	-.011	4.5
13	MP4C	X	0	.5
14	MP4C	Z	16.055	.5
15	MP4C	Mx	.007	.5
16	MP4C	X	0	4.5
17	MP4C	Z	16.055	4.5
18	MP4C	Mx	.007	4.5
19	MP2B	X	0	.5
20	MP2B	Z	20.876	.5
21	MP2B	Mx	-.017	.5
22	MP2B	X	0	4.5
23	MP2B	Z	20.876	4.5
24	MP2B	Mx	-.017	4.5
25	MP2C	X	0	.5
26	MP2C	Z	22.494	.5
27	MP2C	Mx	.021	.5
28	MP2C	X	0	4.5
29	MP2C	Z	22.494	4.5
30	MP2C	Mx	.021	4.5
31	MP2B	X	0	.5
32	MP2B	Z	20.876	.5
33	MP2B	Mx	-.017	.5
34	MP2B	X	0	4.5
35	MP2B	Z	20.876	4.5
36	MP2B	Mx	-.017	4.5
37	MP2C	X	0	.5
38	MP2C	Z	22.494	.5
39	MP2C	Mx	-.002	.5
40	MP2C	X	0	4.5
41	MP2C	Z	22.494	4.5
42	MP2C	Mx	-.002	4.5
43	MP2A	X	0	.5
44	MP2A	Z	34.252	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	-.029	.5
46	MP2A	X	0	4.5
47	MP2A	Z	34.252	4.5
48	MP2A	Mx	-.029	4.5
49	MP2A	X	0	.5
50	MP2A	Z	34.252	.5
51	MP2A	Mx	.029	.5
52	MP2A	X	0	4.5
53	MP2A	Z	34.252	4.5
54	MP2A	Mx	.029	4.5
55	MP1A	X	0	1.5
56	MP1A	Z	13.606	1.5
57	MP1A	Mx	0	1.5
58	MP1A	X	0	3.5
59	MP1A	Z	13.606	3.5
60	MP1A	Mx	0	3.5
61	MP1B	X	0	1.5
62	MP1B	Z	5.776	1.5
63	MP1B	Mx	-.005	1.5
64	MP1B	X	0	3.5
65	MP1B	Z	5.776	3.5
66	MP1B	Mx	-.005	3.5
67	MP1C	X	0	1.5
68	MP1C	Z	11.649	1.5
69	MP1C	Mx	.005	1.5
70	MP1C	X	0	3.5
71	MP1C	Z	11.649	3.5
72	MP1C	Mx	.005	3.5
73	O1	X	0	1
74	O1	Z	22.067	1
75	O1	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	11.443	1
78	MP3A	Mx	0	1
79	MP3B	X	0	1
80	MP3B	Z	8.821	1
81	MP3B	Mx	.004	1
82	MP3C	X	0	1
83	MP3C	Z	8.821	1
84	MP3C	Mx	-.004	1
85	MP2A	X	0	1
86	MP2A	Z	11.443	1
87	MP2A	Mx	0	1
88	MP2B	X	0	1
89	MP2B	Z	7.825	1
90	MP2B	Mx	.003	1
91	MP2C	X	0	1
92	MP2C	Z	7.825	1
93	MP2C	Mx	-.003	1
94	MP5A	X	0	1
95	MP5A	Z	43.485	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	43.485	1
99	MP5B	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-9.271	.5
2	MP4A	Z	16.058	.5
3	MP4A	Mx	.006	.5
4	MP4A	X	-9.271	4.5
5	MP4A	Z	16.058	4.5
6	MP4A	Mx	.006	4.5
7	MP4B	X	-7.222	.5
8	MP4B	Z	12.509	.5
9	MP4B	Mx	-.01	.5
10	MP4B	X	-7.222	4.5
11	MP4B	Z	12.509	4.5
12	MP4B	Mx	-.01	4.5
13	MP4C	X	-8.43	.5
14	MP4C	Z	14.602	.5
15	MP4C	Mx	0	.5
16	MP4C	X	-8.43	4.5
17	MP4C	Z	14.602	4.5
18	MP4C	Mx	0	4.5
19	MP2B	X	-10.707	.5
20	MP2B	Z	18.546	.5
21	MP2B	Mx	-.022	.5
22	MP2B	X	-10.707	4.5
23	MP2B	Z	18.546	4.5
24	MP2B	Mx	-.022	4.5
25	MP2C	X	-11.517	.5
26	MP2C	Z	19.947	.5
27	MP2C	Mx	.013	.5
28	MP2C	X	-11.517	4.5
29	MP2C	Z	19.947	4.5
30	MP2C	Mx	.013	4.5
31	MP2B	X	-10.707	.5
32	MP2B	Z	18.546	.5
33	MP2B	Mx	-.009	.5
34	MP2B	X	-10.707	4.5
35	MP2B	Z	18.546	4.5
36	MP2B	Mx	-.009	4.5
37	MP2C	X	-11.517	.5
38	MP2C	Z	19.947	.5
39	MP2C	Mx	-.013	.5
40	MP2C	X	-11.517	4.5
41	MP2C	Z	19.947	4.5
42	MP2C	Mx	-.013	4.5
43	MP2A	X	-15.484	.5
44	MP2A	Z	26.818	.5
45	MP2A	Mx	-.009	.5
46	MP2A	X	-15.484	4.5
47	MP2A	Z	26.818	4.5
48	MP2A	Mx	-.009	4.5
49	MP2A	X	-15.484	.5
50	MP2A	Z	26.818	.5
51	MP2A	Mx	.035	.5
52	MP2A	X	-15.484	4.5
53	MP2A	Z	26.818	4.5
54	MP2A	Mx	.035	4.5
55	MP1A	X	-5.824	1.5
56	MP1A	Z	10.088	1.5
57	MP1A	Mx	.005	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-5.824	3.5
59	MP1A	Z	10.088	3.5
60	MP1A	Mx	.005	3.5
61	MP1B	X	-3.867	1.5
62	MP1B	Z	6.698	1.5
63	MP1B	Mx	-.006	1.5
64	MP1B	X	-3.867	3.5
65	MP1B	Z	6.698	3.5
66	MP1B	Mx	-.006	3.5
67	MP1C	X	-6.803	1.5
68	MP1C	Z	11.783	1.5
69	MP1C	Mx	0	1.5
70	MP1C	X	-6.803	3.5
71	MP1C	Z	11.783	3.5
72	MP1C	Mx	0	3.5
73	O1	X	-10.159	1
74	O1	Z	17.596	1
75	O1	Mx	0	1
76	MP3A	X	-5.284	1
77	MP3A	Z	9.153	1
78	MP3A	Mx	-.003	1
79	MP3B	X	-3.974	1
80	MP3B	Z	6.882	1
81	MP3B	Mx	.004	1
82	MP3C	X	-5.284	1
83	MP3C	Z	9.153	1
84	MP3C	Mx	-.003	1
85	MP2A	X	-5.118	1
86	MP2A	Z	8.865	1
87	MP2A	Mx	-.003	1
88	MP2B	X	-3.309	1
89	MP2B	Z	5.732	1
90	MP2B	Mx	.003	1
91	MP2C	X	-5.118	1
92	MP2C	Z	8.865	1
93	MP2C	Mx	-.003	1
94	MP5A	X	-21.742	1
95	MP5A	Z	37.659	1
96	MP5A	Mx	0	1
97	MP5B	X	-21.742	1
98	MP5B	Z	37.659	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-12.397	.5
2	MP4A	Z	7.157	.5
3	MP4A	Mx	.008	.5
4	MP4A	X	-12.397	4.5
5	MP4A	Z	7.157	4.5
6	MP4A	Mx	.008	4.5
7	MP4B	X	-13.904	.5
8	MP4B	Z	8.028	.5
9	MP4B	Mx	-.007	.5
10	MP4B	X	-13.904	4.5
11	MP4B	Z	8.028	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4B	Mx	-.007	4.5
13	MP4C	X	-13.904	.5
14	MP4C	Z	8.028	.5
15	MP4C	Mx	-.007	.5
16	MP4C	X	-13.904	4.5
17	MP4C	Z	8.028	4.5
18	MP4C	Mx	-.007	4.5
19	MP2B	X	-19.48	.5
20	MP2B	Z	11.247	.5
21	MP2B	Mx	-.021	.5
22	MP2B	X	-19.48	4.5
23	MP2B	Z	11.247	4.5
24	MP2B	Mx	-.021	4.5
25	MP2C	X	-19.48	.5
26	MP2C	Z	11.247	.5
27	MP2C	Mx	.002	.5
28	MP2C	X	-19.48	4.5
29	MP2C	Z	11.247	4.5
30	MP2C	Mx	.002	4.5
31	MP2B	X	-19.48	.5
32	MP2B	Z	11.247	.5
33	MP2B	Mx	.002	.5
34	MP2B	X	-19.48	4.5
35	MP2B	Z	11.247	4.5
36	MP2B	Mx	.002	4.5
37	MP2C	X	-19.48	.5
38	MP2C	Z	11.247	.5
39	MP2C	Mx	-.021	.5
40	MP2C	X	-19.48	4.5
41	MP2C	Z	11.247	4.5
42	MP2C	Mx	-.021	4.5
43	MP2A	X	-21.13	.5
44	MP2A	Z	12.199	.5
45	MP2A	Mx	.007	.5
46	MP2A	X	-21.13	4.5
47	MP2A	Z	12.199	4.5
48	MP2A	Mx	.007	4.5
49	MP2A	X	-21.13	.5
50	MP2A	Z	12.199	.5
51	MP2A	Mx	.028	.5
52	MP2A	X	-21.13	4.5
53	MP2A	Z	12.199	4.5
54	MP2A	Mx	.028	4.5
55	MP1A	X	-6.698	1.5
56	MP1A	Z	3.867	1.5
57	MP1A	Mx	.006	1.5
58	MP1A	X	-6.698	3.5
59	MP1A	Z	3.867	3.5
60	MP1A	Mx	.006	3.5
61	MP1B	X	-10.088	1.5
62	MP1B	Z	5.824	1.5
63	MP1B	Mx	-.005	1.5
64	MP1B	X	-10.088	3.5
65	MP1B	Z	5.824	3.5
66	MP1B	Mx	-.005	3.5
67	MP1C	X	-10.088	1.5
68	MP1C	Z	5.824	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
69	MP1C	Mx	-.005	1.5
70	MP1C	X	-10.088	3.5
71	MP1C	Z	5.824	3.5
72	MP1C	Mx	-.005	3.5
73	O1	X	-14.567	1
74	O1	Z	8.41	1
75	O1	Mx	0	1
76	MP3A	X	-7.639	1
77	MP3A	Z	4.41	1
78	MP3A	Mx	-.004	1
79	MP3B	X	-7.639	1
80	MP3B	Z	4.41	1
81	MP3B	Mx	.004	1
82	MP3C	X	-9.91	1
83	MP3C	Z	5.721	1
84	MP3C	Mx	0	1
85	MP2A	X	-6.776	1
86	MP2A	Z	3.912	1
87	MP2A	Mx	-.003	1
88	MP2B	X	-6.776	1
89	MP2B	Z	3.912	1
90	MP2B	Mx	.003	1
91	MP2C	X	-9.91	1
92	MP2C	Z	5.721	1
93	MP2C	Mx	0	1
94	MP5A	X	-37.659	1
95	MP5A	Z	21.742	1
96	MP5A	Mx	0	1
97	MP5B	X	-37.659	1
98	MP5B	Z	21.742	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-12.201	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	.008	.5
4	MP4A	X	-12.201	4.5
5	MP4A	Z	0	4.5
6	MP4A	Mx	.008	4.5
7	MP4B	X	-16.861	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	0	.5
10	MP4B	X	-16.861	4.5
11	MP4B	Z	0	4.5
12	MP4B	Mx	0	4.5
13	MP4C	X	-14.445	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	-.01	.5
16	MP4C	X	-14.445	4.5
17	MP4C	Z	0	4.5
18	MP4C	Mx	-.01	4.5
19	MP2B	X	-23.033	.5
20	MP2B	Z	0	.5
21	MP2B	Mx	-.013	.5
22	MP2B	X	-23.033	4.5



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
23	MP2B	Z	0	4.5
24	MP2B	Mx	-.013	4.5
25	MP2C	X	-21.415	.5
26	MP2C	Z	0	.5
27	MP2C	Mx	-.009	.5
28	MP2C	X	-21.415	4.5
29	MP2C	Z	0	4.5
30	MP2C	Mx	-.009	4.5
31	MP2B	X	-23.033	.5
32	MP2B	Z	0	.5
33	MP2B	Mx	.013	.5
34	MP2B	X	-23.033	4.5
35	MP2B	Z	0	4.5
36	MP2B	Mx	.013	4.5
37	MP2C	X	-21.415	.5
38	MP2C	Z	0	.5
39	MP2C	Mx	-.022	.5
40	MP2C	X	-21.415	4.5
41	MP2C	Z	0	4.5
42	MP2C	Mx	-.022	4.5
43	MP2A	X	-21.114	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	.018	.5
46	MP2A	X	-21.114	4.5
47	MP2A	Z	0	4.5
48	MP2A	Mx	.018	4.5
49	MP2A	X	-21.114	.5
50	MP2A	Z	0	.5
51	MP2A	Mx	.018	.5
52	MP2A	X	-21.114	4.5
53	MP2A	Z	0	4.5
54	MP2A	Mx	.018	4.5
55	MP1A	X	-5.776	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	.005	1.5
58	MP1A	X	-5.776	3.5
59	MP1A	Z	0	3.5
60	MP1A	Mx	.005	3.5
61	MP1B	X	-13.606	1.5
62	MP1B	Z	0	1.5
63	MP1B	Mx	0	1.5
64	MP1B	X	-13.606	3.5
65	MP1B	Z	0	3.5
66	MP1B	Mx	0	3.5
67	MP1C	X	-7.734	1.5
68	MP1C	Z	0	1.5
69	MP1C	Mx	-.006	1.5
70	MP1C	X	-7.734	3.5
71	MP1C	Z	0	3.5
72	MP1C	Mx	-.006	3.5
73	O1	X	-15.071	1
74	O1	Z	0	1
75	O1	Mx	0	1
76	MP3A	X	-7.947	1
77	MP3A	Z	0	1
78	MP3A	Mx	-.004	1
79	MP3B	X	-10.569	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP3B	Z	0	1
81	MP3B	Mx	.003	1
82	MP3C	X	-10.569	1
83	MP3C	Z	0	1
84	MP3C	Mx	.003	1
85	MP2A	X	-6.619	1
86	MP2A	Z	0	1
87	MP2A	Mx	-.003	1
88	MP2B	X	-10.237	1
89	MP2B	Z	0	1
90	MP2B	Mx	.003	1
91	MP2C	X	-10.237	1
92	MP2C	Z	0	1
93	MP2C	Mx	.003	1
94	MP5A	X	-43.485	1
95	MP5A	Z	0	1
96	MP5A	Mx	0	1
97	MP5B	X	-43.485	1
98	MP5B	Z	0	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-12.397	.5
2	MP4A	Z	-7.157	.5
3	MP4A	Mx	.008	.5
4	MP4A	X	-12.397	4.5
5	MP4A	Z	-7.157	4.5
6	MP4A	Mx	.008	4.5
7	MP4B	X	-13.904	.5
8	MP4B	Z	-8.028	.5
9	MP4B	Mx	.007	.5
10	MP4B	X	-13.904	4.5
11	MP4B	Z	-8.028	4.5
12	MP4B	Mx	.007	4.5
13	MP4C	X	-11.812	.5
14	MP4C	Z	-6.82	.5
15	MP4C	Mx	-.011	.5
16	MP4C	X	-11.812	4.5
17	MP4C	Z	-6.82	4.5
18	MP4C	Mx	-.011	4.5
19	MP2B	X	-19.48	.5
20	MP2B	Z	-11.247	.5
21	MP2B	Mx	-.002	.5
22	MP2B	X	-19.48	4.5
23	MP2B	Z	-11.247	4.5
24	MP2B	Mx	-.002	4.5
25	MP2C	X	-18.079	.5
26	MP2C	Z	-10.438	.5
27	MP2C	Mx	-.017	.5
28	MP2C	X	-18.079	4.5
29	MP2C	Z	-10.438	4.5
30	MP2C	Mx	-.017	4.5
31	MP2B	X	-19.48	.5
32	MP2B	Z	-11.247	.5
33	MP2B	Mx	.021	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	-19.48	4.5
35	MP2B	Z	-11.247	4.5
36	MP2B	Mx	.021	4.5
37	MP2C	X	-18.079	.5
38	MP2C	Z	-10.438	.5
39	MP2C	Mx	-.017	.5
40	MP2C	X	-18.079	4.5
41	MP2C	Z	-10.438	4.5
42	MP2C	Mx	-.017	4.5
43	MP2A	X	-21.13	.5
44	MP2A	Z	-12.199	.5
45	MP2A	Mx	.028	.5
46	MP2A	X	-21.13	4.5
47	MP2A	Z	-12.199	4.5
48	MP2A	Mx	.028	4.5
49	MP2A	X	-21.13	.5
50	MP2A	Z	-12.199	.5
51	MP2A	Mx	.007	.5
52	MP2A	X	-21.13	4.5
53	MP2A	Z	-12.199	4.5
54	MP2A	Mx	.007	4.5
55	MP1A	X	-6.698	1.5
56	MP1A	Z	-3.867	1.5
57	MP1A	Mx	.006	1.5
58	MP1A	X	-6.698	3.5
59	MP1A	Z	-3.867	3.5
60	MP1A	Mx	.006	3.5
61	MP1B	X	-10.088	1.5
62	MP1B	Z	-5.824	1.5
63	MP1B	Mx	.005	1.5
64	MP1B	X	-10.088	3.5
65	MP1B	Z	-5.824	3.5
66	MP1B	Mx	.005	3.5
67	MP1C	X	-5.002	1.5
68	MP1C	Z	-2.888	1.5
69	MP1C	Mx	-.005	1.5
70	MP1C	X	-5.002	3.5
71	MP1C	Z	-2.888	3.5
72	MP1C	Mx	-.005	3.5
73	O1	X	-14.567	1
74	O1	Z	-8.41	1
75	O1	Mx	0	1
76	MP3A	X	-7.639	1
77	MP3A	Z	-4.41	1
78	MP3A	Mx	-.004	1
79	MP3B	X	-9.91	1
80	MP3B	Z	-5.721	1
81	MP3B	Mx	0	1
82	MP3C	X	-7.639	1
83	MP3C	Z	-4.41	1
84	MP3C	Mx	.004	1
85	MP2A	X	-6.776	1
86	MP2A	Z	-3.912	1
87	MP2A	Mx	-.003	1
88	MP2B	X	-9.91	1
89	MP2B	Z	-5.721	1
90	MP2B	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
91	MP2C	X	-6.776	1
92	MP2C	Z	-3.912	1
93	MP2C	Mx	.003	1
94	MP5A	X	-37.659	1
95	MP5A	Z	-21.742	1
96	MP5A	Mx	0	1
97	MP5B	X	-37.659	1
98	MP5B	Z	-21.742	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-9.271	.5
2	MP4A	Z	-16.058	.5
3	MP4A	Mx	.006	.5
4	MP4A	X	-9.271	4.5
5	MP4A	Z	-16.058	4.5
6	MP4A	Mx	.006	4.5
7	MP4B	X	-7.222	.5
8	MP4B	Z	-12.509	.5
9	MP4B	Mx	.01	.5
10	MP4B	X	-7.222	4.5
11	MP4B	Z	-12.509	4.5
12	MP4B	Mx	.01	4.5
13	MP4C	X	-7.222	.5
14	MP4C	Z	-12.509	.5
15	MP4C	Mx	-.01	.5
16	MP4C	X	-7.222	4.5
17	MP4C	Z	-12.509	4.5
18	MP4C	Mx	-.01	4.5
19	MP2B	X	-10.707	.5
20	MP2B	Z	-18.546	.5
21	MP2B	Mx	.009	.5
22	MP2B	X	-10.707	4.5
23	MP2B	Z	-18.546	4.5
24	MP2B	Mx	.009	4.5
25	MP2C	X	-10.707	.5
26	MP2C	Z	-18.546	.5
27	MP2C	Mx	-.022	.5
28	MP2C	X	-10.707	4.5
29	MP2C	Z	-18.546	4.5
30	MP2C	Mx	-.022	4.5
31	MP2B	X	-10.707	.5
32	MP2B	Z	-18.546	.5
33	MP2B	Mx	.022	.5
34	MP2B	X	-10.707	4.5
35	MP2B	Z	-18.546	4.5
36	MP2B	Mx	.022	4.5
37	MP2C	X	-10.707	.5
38	MP2C	Z	-18.546	.5
39	MP2C	Mx	-.009	.5
40	MP2C	X	-10.707	4.5
41	MP2C	Z	-18.546	4.5
42	MP2C	Mx	-.009	4.5
43	MP2A	X	-15.484	.5
44	MP2A	Z	-26.818	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	.035	.5
46	MP2A	X	-15.484	4.5
47	MP2A	Z	-26.818	4.5
48	MP2A	Mx	.035	4.5
49	MP2A	X	-15.484	.5
50	MP2A	Z	-26.818	.5
51	MP2A	Mx	-.009	.5
52	MP2A	X	-15.484	4.5
53	MP2A	Z	-26.818	4.5
54	MP2A	Mx	-.009	4.5
55	MP1A	X	-5.824	1.5
56	MP1A	Z	-10.088	1.5
57	MP1A	Mx	.005	1.5
58	MP1A	X	-5.824	3.5
59	MP1A	Z	-10.088	3.5
60	MP1A	Mx	.005	3.5
61	MP1B	X	-3.867	1.5
62	MP1B	Z	-6.698	1.5
63	MP1B	Mx	.006	1.5
64	MP1B	X	-3.867	3.5
65	MP1B	Z	-6.698	3.5
66	MP1B	Mx	.006	3.5
67	MP1C	X	-3.867	1.5
68	MP1C	Z	-6.698	1.5
69	MP1C	Mx	-.006	1.5
70	MP1C	X	-3.867	3.5
71	MP1C	Z	-6.698	3.5
72	MP1C	Mx	-.006	3.5
73	O1	X	-10.159	1
74	O1	Z	-17.596	1
75	O1	Mx	0	1
76	MP3A	X	-5.284	1
77	MP3A	Z	-9.153	1
78	MP3A	Mx	-.003	1
79	MP3B	X	-5.284	1
80	MP3B	Z	-9.153	1
81	MP3B	Mx	-.003	1
82	MP3C	X	-3.974	1
83	MP3C	Z	-6.882	1
84	MP3C	Mx	.004	1
85	MP2A	X	-5.118	1
86	MP2A	Z	-8.865	1
87	MP2A	Mx	-.003	1
88	MP2B	X	-5.118	1
89	MP2B	Z	-8.865	1
90	MP2B	Mx	-.003	1
91	MP2C	X	-3.309	1
92	MP2C	Z	-5.732	1
93	MP2C	Mx	.003	1
94	MP5A	X	-21.742	1
95	MP5A	Z	-37.659	1
96	MP5A	Mx	0	1
97	MP5B	X	-21.742	1
98	MP5B	Z	-37.659	1
99	MP5B	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	0	.5
2	MP4A	Z	-6.728	.5
3	MP4A	Mx	0	.5
4	MP4A	X	0	4.5
5	MP4A	Z	-6.728	4.5
6	MP4A	Mx	0	4.5
7	MP4B	X	0	.5
8	MP4B	Z	-4.227	.5
9	MP4B	Mx	.004	.5
10	MP4B	X	0	4.5
11	MP4B	Z	-4.227	4.5
12	MP4B	Mx	.004	4.5
13	MP4C	X	0	.5
14	MP4C	Z	-5.06	.5
15	MP4C	Mx	-.002	.5
16	MP4C	X	0	4.5
17	MP4C	Z	-5.06	4.5
18	MP4C	Mx	-.002	4.5
19	MP2B	X	0	.5
20	MP2B	Z	-6.801	.5
21	MP2B	Mx	.006	.5
22	MP2B	X	0	4.5
23	MP2B	Z	-6.801	4.5
24	MP2B	Mx	.006	4.5
25	MP2C	X	0	.5
26	MP2C	Z	-7.365	.5
27	MP2C	Mx	-.007	.5
28	MP2C	X	0	4.5
29	MP2C	Z	-7.365	4.5
30	MP2C	Mx	-.007	4.5
31	MP2B	X	0	.5
32	MP2B	Z	-6.801	.5
33	MP2B	Mx	.006	.5
34	MP2B	X	0	4.5
35	MP2B	Z	-6.801	4.5
36	MP2B	Mx	.006	4.5
37	MP2C	X	0	.5
38	MP2C	Z	-7.365	.5
39	MP2C	Mx	.000652	.5
40	MP2C	X	0	4.5
41	MP2C	Z	-7.365	4.5
42	MP2C	Mx	.000652	4.5
43	MP2A	X	0	.5
44	MP2A	Z	-9.147	.5
45	MP2A	Mx	.008	.5
46	MP2A	X	0	4.5
47	MP2A	Z	-9.147	4.5
48	MP2A	Mx	.008	4.5
49	MP2A	X	0	.5
50	MP2A	Z	-9.147	.5
51	MP2A	Mx	-.008	.5
52	MP2A	X	0	4.5
53	MP2A	Z	-9.147	4.5
54	MP2A	Mx	-.008	4.5
55	MP1A	X	0	1.5
56	MP1A	Z	-4.356	1.5
57	MP1A	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	0	3.5
59	MP1A	Z	-4.356	3.5
60	MP1A	Mx	0	3.5
61	MP1B	X	0	1.5
62	MP1B	Z	-1.705	1.5
63	MP1B	Mx	.001	1.5
64	MP1B	X	0	3.5
65	MP1B	Z	-1.705	3.5
66	MP1B	Mx	.001	3.5
67	MP1C	X	0	1.5
68	MP1C	Z	-3.693	1.5
69	MP1C	Mx	-.002	1.5
70	MP1C	X	0	3.5
71	MP1C	Z	-3.693	3.5
72	MP1C	Mx	-.002	3.5
73	O1	X	0	1
74	O1	Z	-7.025	1
75	O1	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	-3.466	1
78	MP3A	Mx	0	1
79	MP3B	X	0	1
80	MP3B	Z	-2.604	1
81	MP3B	Mx	-.001	1
82	MP3C	X	0	1
83	MP3C	Z	-2.604	1
84	MP3C	Mx	.001	1
85	MP2A	X	0	1
86	MP2A	Z	-3.466	1
87	MP2A	Mx	0	1
88	MP2B	X	0	1
89	MP2B	Z	-2.274	1
90	MP2B	Mx	-.000985	1
91	MP2C	X	0	1
92	MP2C	Z	-2.274	1
93	MP2C	Mx	.000985	1
94	MP5A	X	0	1
95	MP5A	Z	-8.897	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	-8.897	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	2.991	.5
2	MP4A	Z	-5.18	.5
3	MP4A	Mx	-.002	.5
4	MP4A	X	2.991	4.5
5	MP4A	Z	-5.18	4.5
6	MP4A	Mx	-.002	4.5
7	MP4B	X	2.252	.5
8	MP4B	Z	-3.901	.5
9	MP4B	Mx	.003	.5
10	MP4B	X	2.252	4.5
11	MP4B	Z	-3.901	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4B	Mx	.003	4.5
13	MP4C	X	2.669	.5
14	MP4C	Z	-4.623	.5
15	MP4C	Mx	0	.5
16	MP4C	X	2.669	4.5
17	MP4C	Z	-4.623	4.5
18	MP4C	Mx	0	4.5
19	MP2B	X	3.494	.5
20	MP2B	Z	-6.052	.5
21	MP2B	Mx	.007	.5
22	MP2B	X	3.494	4.5
23	MP2B	Z	-6.052	4.5
24	MP2B	Mx	.007	4.5
25	MP2C	X	3.777	.5
26	MP2C	Z	-6.541	.5
27	MP2C	Mx	-.004	.5
28	MP2C	X	3.777	4.5
29	MP2C	Z	-6.541	4.5
30	MP2C	Mx	-.004	4.5
31	MP2B	X	3.494	.5
32	MP2B	Z	-6.052	.5
33	MP2B	Mx	.003	.5
34	MP2B	X	3.494	4.5
35	MP2B	Z	-6.052	4.5
36	MP2B	Mx	.003	4.5
37	MP2C	X	3.777	.5
38	MP2C	Z	-6.541	.5
39	MP2C	Mx	.004	.5
40	MP2C	X	3.777	4.5
41	MP2C	Z	-6.541	4.5
42	MP2C	Mx	.004	4.5
43	MP2A	X	4.29	.5
44	MP2A	Z	-7.431	.5
45	MP2A	Mx	.003	.5
46	MP2A	X	4.29	4.5
47	MP2A	Z	-7.431	4.5
48	MP2A	Mx	.003	4.5
49	MP2A	X	4.29	.5
50	MP2A	Z	-7.431	.5
51	MP2A	Mx	-.01	.5
52	MP2A	X	4.29	4.5
53	MP2A	Z	-7.431	4.5
54	MP2A	Mx	-.01	4.5
55	MP1A	X	1.847	1.5
56	MP1A	Z	-3.198	1.5
57	MP1A	Mx	-.002	1.5
58	MP1A	X	1.847	3.5
59	MP1A	Z	-3.198	3.5
60	MP1A	Mx	-.002	3.5
61	MP1B	X	1.184	1.5
62	MP1B	Z	-2.051	1.5
63	MP1B	Mx	.002	1.5
64	MP1B	X	1.184	3.5
65	MP1B	Z	-2.051	3.5
66	MP1B	Mx	.002	3.5
67	MP1C	X	2.178	1.5
68	MP1C	Z	-3.772	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
69	MP1C	Mx	0	1.5
70	MP1C	X	2.178	3.5
71	MP1C	Z	-3.772	3.5
72	MP1C	Mx	0	3.5
73	O1	X	3.216	1
74	O1	Z	-5.569	1
75	O1	Mx	0	1
76	MP3A	X	1.589	1
77	MP3A	Z	-2.753	1
78	MP3A	Mx	.000794	1
79	MP3B	X	1.158	1
80	MP3B	Z	-2.006	1
81	MP3B	Mx	-.001	1
82	MP3C	X	1.589	1
83	MP3C	Z	-2.753	1
84	MP3C	Mx	.000795	1
85	MP2A	X	1.534	1
86	MP2A	Z	-2.658	1
87	MP2A	Mx	.000767	1
88	MP2B	X	.938	1
89	MP2B	Z	-1.625	1
90	MP2B	Mx	-.000938	1
91	MP2C	X	1.534	1
92	MP2C	Z	-2.658	1
93	MP2C	Mx	.000767	1
94	MP5A	X	3.336	1
95	MP5A	Z	-5.779	1
96	MP5A	Mx	0	1
97	MP5B	X	3.336	1
98	MP5B	Z	-5.779	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	3.886	.5
2	MP4A	Z	-2.243	.5
3	MP4A	Mx	-.003	.5
4	MP4A	X	3.886	4.5
5	MP4A	Z	-2.243	4.5
6	MP4A	Mx	-.003	4.5
7	MP4B	X	4.382	.5
8	MP4B	Z	-2.53	.5
9	MP4B	Mx	.002	.5
10	MP4B	X	4.382	4.5
11	MP4B	Z	-2.53	4.5
12	MP4B	Mx	.002	4.5
13	MP4C	X	4.382	.5
14	MP4C	Z	-2.53	.5
15	MP4C	Mx	.002	.5
16	MP4C	X	4.382	4.5
17	MP4C	Z	-2.53	4.5
18	MP4C	Mx	.002	4.5
19	MP2B	X	6.378	.5
20	MP2B	Z	-3.682	.5
21	MP2B	Mx	.007	.5
22	MP2B	X	6.378	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2B	Z	-3.682	4.5
24	MP2B	Mx	.007	4.5
25	MP2C	X	6.378	.5
26	MP2C	Z	-3.682	.5
27	MP2C	Mx	-.000652	.5
28	MP2C	X	6.378	4.5
29	MP2C	Z	-3.682	4.5
30	MP2C	Mx	-.000652	4.5
31	MP2B	X	6.378	.5
32	MP2B	Z	-3.682	.5
33	MP2B	Mx	-.000652	.5
34	MP2B	X	6.378	4.5
35	MP2B	Z	-3.682	4.5
36	MP2B	Mx	-.000652	4.5
37	MP2C	X	6.378	.5
38	MP2C	Z	-3.682	.5
39	MP2C	Mx	.007	.5
40	MP2C	X	6.378	4.5
41	MP2C	Z	-3.682	4.5
42	MP2C	Mx	.007	4.5
43	MP2A	X	6.45	.5
44	MP2A	Z	-3.724	.5
45	MP2A	Mx	-.002	.5
46	MP2A	X	6.45	4.5
47	MP2A	Z	-3.724	4.5
48	MP2A	Mx	-.002	4.5
49	MP2A	X	6.45	.5
50	MP2A	Z	-3.724	.5
51	MP2A	Mx	-.008	.5
52	MP2A	X	6.45	4.5
53	MP2A	Z	-3.724	4.5
54	MP2A	Mx	-.008	4.5
55	MP1A	X	2.051	1.5
56	MP1A	Z	-1.184	1.5
57	MP1A	Mx	-.002	1.5
58	MP1A	X	2.051	3.5
59	MP1A	Z	-1.184	3.5
60	MP1A	Mx	-.002	3.5
61	MP1B	X	3.198	1.5
62	MP1B	Z	-1.847	1.5
63	MP1B	Mx	.002	1.5
64	MP1B	X	3.198	3.5
65	MP1B	Z	-1.847	3.5
66	MP1B	Mx	.002	3.5
67	MP1C	X	3.198	1.5
68	MP1C	Z	-1.847	1.5
69	MP1C	Mx	.002	1.5
70	MP1C	X	3.198	3.5
71	MP1C	Z	-1.847	3.5
72	MP1C	Mx	.002	3.5
73	O1	X	4.541	1
74	O1	Z	-2.622	1
75	O1	Mx	0	1
76	MP3A	X	2.255	1
77	MP3A	Z	-1.302	1
78	MP3A	Mx	.001	1
79	MP3B	X	2.255	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
80	MP3B	Z	-1.302	1
81	MP3B	Mx	-0.001	1
82	MP3C	X	3.002	1
83	MP3C	Z	-1.733	1
84	MP3C	Mx	0	1
85	MP2A	X	1.969	1
86	MP2A	Z	-1.137	1
87	MP2A	Mx	.000984	1
88	MP2B	X	1.969	1
89	MP2B	Z	-1.137	1
90	MP2B	Mx	-.000985	1
91	MP2C	X	3.002	1
92	MP2C	Z	-1.733	1
93	MP2C	Mx	0	1
94	MP5A	X	1.926	1
95	MP5A	Z	-1.112	1
96	MP5A	Mx	0	1
97	MP5B	X	1.926	1
98	MP5B	Z	-1.112	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	3.739	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	-.002	.5
4	MP4A	X	3.739	4.5
5	MP4A	Z	0	4.5
6	MP4A	Mx	-.002	4.5
7	MP4B	X	5.338	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	0	.5
10	MP4B	X	5.338	4.5
11	MP4B	Z	0	4.5
12	MP4B	Mx	0	4.5
13	MP4C	X	4.505	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	.003	.5
16	MP4C	X	4.505	4.5
17	MP4C	Z	0	4.5
18	MP4C	Mx	.003	4.5
19	MP2B	X	7.553	.5
20	MP2B	Z	0	.5
21	MP2B	Mx	.004	.5
22	MP2B	X	7.553	4.5
23	MP2B	Z	0	4.5
24	MP2B	Mx	.004	4.5
25	MP2C	X	6.989	.5
26	MP2C	Z	0	.5
27	MP2C	Mx	.003	.5
28	MP2C	X	6.989	4.5
29	MP2C	Z	0	4.5
30	MP2C	Mx	.003	4.5
31	MP2B	X	7.553	.5
32	MP2B	Z	0	.5
33	MP2B	Mx	-.004	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	7.553	4.5
35	MP2B	Z	0	4.5
36	MP2B	Mx	-.004	4.5
37	MP2C	X	6.989	.5
38	MP2C	Z	0	.5
39	MP2C	Mx	.007	.5
40	MP2C	X	6.989	4.5
41	MP2C	Z	0	4.5
42	MP2C	Mx	.007	4.5
43	MP2A	X	6.882	.5
44	MP2A	Z	0	.5
45	MP2A	Mx	-.006	.5
46	MP2A	X	6.882	4.5
47	MP2A	Z	0	4.5
48	MP2A	Mx	-.006	4.5
49	MP2A	X	6.882	.5
50	MP2A	Z	0	.5
51	MP2A	Mx	-.006	.5
52	MP2A	X	6.882	4.5
53	MP2A	Z	0	4.5
54	MP2A	Mx	-.006	4.5
55	MP1A	X	1.705	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	-.001	1.5
58	MP1A	X	1.705	3.5
59	MP1A	Z	0	3.5
60	MP1A	Mx	-.001	3.5
61	MP1B	X	4.356	1.5
62	MP1B	Z	0	1.5
63	MP1B	Mx	0	1.5
64	MP1B	X	4.356	3.5
65	MP1B	Z	0	3.5
66	MP1B	Mx	0	3.5
67	MP1C	X	2.368	1.5
68	MP1C	Z	0	1.5
69	MP1C	Mx	.002	1.5
70	MP1C	X	2.368	3.5
71	MP1C	Z	0	3.5
72	MP1C	Mx	.002	3.5
73	O1	X	4.65	1
74	O1	Z	0	1
75	O1	Mx	0	1
76	MP3A	X	2.317	1
77	MP3A	Z	0	1
78	MP3A	Mx	.001	1
79	MP3B	X	3.179	1
80	MP3B	Z	0	1
81	MP3B	Mx	-.000795	1
82	MP3C	X	3.179	1
83	MP3C	Z	0	1
84	MP3C	Mx	-.000795	1
85	MP2A	X	1.877	1
86	MP2A	Z	0	1
87	MP2A	Mx	.000938	1
88	MP2B	X	3.069	1
89	MP2B	Z	0	1
90	MP2B	Mx	-.000767	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
91	MP2C	X	3.069	1
92	MP2C	Z	0	1
93	MP2C	Mx	-.000767	1
94	MP5A	X	0	1
95	MP5A	Z	0	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	0	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	3.886	.5
2	MP4A	Z	2.243	.5
3	MP4A	Mx	-.003	.5
4	MP4A	X	3.886	4.5
5	MP4A	Z	2.243	4.5
6	MP4A	Mx	-.003	4.5
7	MP4B	X	4.382	.5
8	MP4B	Z	2.53	.5
9	MP4B	Mx	-.002	.5
10	MP4B	X	4.382	4.5
11	MP4B	Z	2.53	4.5
12	MP4B	Mx	-.002	4.5
13	MP4C	X	3.66	.5
14	MP4C	Z	2.113	.5
15	MP4C	Mx	.004	.5
16	MP4C	X	3.66	4.5
17	MP4C	Z	2.113	4.5
18	MP4C	Mx	.004	4.5
19	MP2B	X	6.378	.5
20	MP2B	Z	3.682	.5
21	MP2B	Mx	.000652	.5
22	MP2B	X	6.378	4.5
23	MP2B	Z	3.682	4.5
24	MP2B	Mx	.000652	4.5
25	MP2C	X	5.889	.5
26	MP2C	Z	3.4	.5
27	MP2C	Mx	.006	.5
28	MP2C	X	5.889	4.5
29	MP2C	Z	3.4	4.5
30	MP2C	Mx	.006	4.5
31	MP2B	X	6.378	.5
32	MP2B	Z	3.682	.5
33	MP2B	Mx	-.007	.5
34	MP2B	X	6.378	4.5
35	MP2B	Z	3.682	4.5
36	MP2B	Mx	-.007	4.5
37	MP2C	X	5.889	.5
38	MP2C	Z	3.4	.5
39	MP2C	Mx	.006	.5
40	MP2C	X	5.889	4.5
41	MP2C	Z	3.4	4.5
42	MP2C	Mx	.006	4.5
43	MP2A	X	6.45	.5
44	MP2A	Z	3.724	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	-.008	.5
46	MP2A	X	6.45	4.5
47	MP2A	Z	3.724	4.5
48	MP2A	Mx	-.008	4.5
49	MP2A	X	6.45	.5
50	MP2A	Z	3.724	.5
51	MP2A	Mx	-.002	.5
52	MP2A	X	6.45	4.5
53	MP2A	Z	3.724	4.5
54	MP2A	Mx	-.002	4.5
55	MP1A	X	2.051	1.5
56	MP1A	Z	1.184	1.5
57	MP1A	Mx	-.002	1.5
58	MP1A	X	2.051	3.5
59	MP1A	Z	1.184	3.5
60	MP1A	Mx	-.002	3.5
61	MP1B	X	3.198	1.5
62	MP1B	Z	1.847	1.5
63	MP1B	Mx	-.002	1.5
64	MP1B	X	3.198	3.5
65	MP1B	Z	1.847	3.5
66	MP1B	Mx	-.002	3.5
67	MP1C	X	1.477	1.5
68	MP1C	Z	.853	1.5
69	MP1C	Mx	.001	1.5
70	MP1C	X	1.477	3.5
71	MP1C	Z	.853	3.5
72	MP1C	Mx	.001	3.5
73	O1	X	4.541	1
74	O1	Z	2.622	1
75	O1	Mx	0	1
76	MP3A	X	2.255	1
77	MP3A	Z	1.302	1
78	MP3A	Mx	.001	1
79	MP3B	X	3.002	1
80	MP3B	Z	1.733	1
81	MP3B	Mx	0	1
82	MP3C	X	2.255	1
83	MP3C	Z	1.302	1
84	MP3C	Mx	-.001	1
85	MP2A	X	1.969	1
86	MP2A	Z	1.137	1
87	MP2A	Mx	.000984	1
88	MP2B	X	3.002	1
89	MP2B	Z	1.733	1
90	MP2B	Mx	0	1
91	MP2C	X	1.969	1
92	MP2C	Z	1.137	1
93	MP2C	Mx	-.000985	1
94	MP5A	X	1.926	1
95	MP5A	Z	1.112	1
96	MP5A	Mx	0	1
97	MP5B	X	1.926	1
98	MP5B	Z	1.112	1
99	MP5B	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	2.991	.5
2	MP4A	Z	5.18	.5
3	MP4A	Mx	-.002	.5
4	MP4A	X	2.991	4.5
5	MP4A	Z	5.18	4.5
6	MP4A	Mx	-.002	4.5
7	MP4B	X	2.252	.5
8	MP4B	Z	3.901	.5
9	MP4B	Mx	-.003	.5
10	MP4B	X	2.252	4.5
11	MP4B	Z	3.901	4.5
12	MP4B	Mx	-.003	4.5
13	MP4C	X	2.252	.5
14	MP4C	Z	3.901	.5
15	MP4C	Mx	.003	.5
16	MP4C	X	2.252	4.5
17	MP4C	Z	3.901	4.5
18	MP4C	Mx	.003	4.5
19	MP2B	X	3.494	.5
20	MP2B	Z	6.052	.5
21	MP2B	Mx	-.003	.5
22	MP2B	X	3.494	4.5
23	MP2B	Z	6.052	4.5
24	MP2B	Mx	-.003	4.5
25	MP2C	X	3.494	.5
26	MP2C	Z	6.052	.5
27	MP2C	Mx	.007	.5
28	MP2C	X	3.494	4.5
29	MP2C	Z	6.052	4.5
30	MP2C	Mx	.007	4.5
31	MP2B	X	3.494	.5
32	MP2B	Z	6.052	.5
33	MP2B	Mx	-.007	.5
34	MP2B	X	3.494	4.5
35	MP2B	Z	6.052	4.5
36	MP2B	Mx	-.007	4.5
37	MP2C	X	3.494	.5
38	MP2C	Z	6.052	.5
39	MP2C	Mx	.003	.5
40	MP2C	X	3.494	4.5
41	MP2C	Z	6.052	4.5
42	MP2C	Mx	.003	4.5
43	MP2A	X	4.29	.5
44	MP2A	Z	7.431	.5
45	MP2A	Mx	-.01	.5
46	MP2A	X	4.29	4.5
47	MP2A	Z	7.431	4.5
48	MP2A	Mx	-.01	4.5
49	MP2A	X	4.29	.5
50	MP2A	Z	7.431	.5
51	MP2A	Mx	.003	.5
52	MP2A	X	4.29	4.5
53	MP2A	Z	7.431	4.5
54	MP2A	Mx	.003	4.5
55	MP1A	X	1.847	1.5
56	MP1A	Z	3.198	1.5
57	MP1A	Mx	-.002	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	1.847	3.5
59	MP1A	Z	3.198	3.5
60	MP1A	Mx	-.002	3.5
61	MP1B	X	1.184	1.5
62	MP1B	Z	2.051	1.5
63	MP1B	Mx	-.002	1.5
64	MP1B	X	1.184	3.5
65	MP1B	Z	2.051	3.5
66	MP1B	Mx	-.002	3.5
67	MP1C	X	1.184	1.5
68	MP1C	Z	2.051	1.5
69	MP1C	Mx	.002	1.5
70	MP1C	X	1.184	3.5
71	MP1C	Z	2.051	3.5
72	MP1C	Mx	.002	3.5
73	O1	X	3.216	1
74	O1	Z	5.569	1
75	O1	Mx	0	1
76	MP3A	X	1.589	1
77	MP3A	Z	2.753	1
78	MP3A	Mx	.000794	1
79	MP3B	X	1.589	1
80	MP3B	Z	2.753	1
81	MP3B	Mx	.000795	1
82	MP3C	X	1.158	1
83	MP3C	Z	2.006	1
84	MP3C	Mx	-.001	1
85	MP2A	X	1.534	1
86	MP2A	Z	2.658	1
87	MP2A	Mx	.000767	1
88	MP2B	X	1.534	1
89	MP2B	Z	2.658	1
90	MP2B	Mx	.000767	1
91	MP2C	X	.938	1
92	MP2C	Z	1.625	1
93	MP2C	Mx	-.000938	1
94	MP5A	X	3.336	1
95	MP5A	Z	5.779	1
96	MP5A	Mx	0	1
97	MP5B	X	3.336	1
98	MP5B	Z	5.779	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.5
2	MP4A	Z	6.728	.5
3	MP4A	Mx	0	.5
4	MP4A	X	0	4.5
5	MP4A	Z	6.728	4.5
6	MP4A	Mx	0	4.5
7	MP4B	X	0	.5
8	MP4B	Z	4.227	.5
9	MP4B	Mx	-.004	.5
10	MP4B	X	0	4.5
11	MP4B	Z	4.227	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4B	Mx	-.004	4.5
13	MP4C	X	0	.5
14	MP4C	Z	5.06	.5
15	MP4C	Mx	.002	.5
16	MP4C	X	0	4.5
17	MP4C	Z	5.06	4.5
18	MP4C	Mx	.002	4.5
19	MP2B	X	0	.5
20	MP2B	Z	6.801	.5
21	MP2B	Mx	-.006	.5
22	MP2B	X	0	4.5
23	MP2B	Z	6.801	4.5
24	MP2B	Mx	-.006	4.5
25	MP2C	X	0	.5
26	MP2C	Z	7.365	.5
27	MP2C	Mx	.007	.5
28	MP2C	X	0	4.5
29	MP2C	Z	7.365	4.5
30	MP2C	Mx	.007	4.5
31	MP2B	X	0	.5
32	MP2B	Z	6.801	.5
33	MP2B	Mx	-.006	.5
34	MP2B	X	0	4.5
35	MP2B	Z	6.801	4.5
36	MP2B	Mx	-.006	4.5
37	MP2C	X	0	.5
38	MP2C	Z	7.365	.5
39	MP2C	Mx	-.000652	.5
40	MP2C	X	0	4.5
41	MP2C	Z	7.365	4.5
42	MP2C	Mx	-.000652	4.5
43	MP2A	X	0	.5
44	MP2A	Z	9.147	.5
45	MP2A	Mx	-.008	.5
46	MP2A	X	0	4.5
47	MP2A	Z	9.147	4.5
48	MP2A	Mx	-.008	4.5
49	MP2A	X	0	.5
50	MP2A	Z	9.147	.5
51	MP2A	Mx	.008	.5
52	MP2A	X	0	4.5
53	MP2A	Z	9.147	4.5
54	MP2A	Mx	.008	4.5
55	MP1A	X	0	1.5
56	MP1A	Z	4.356	1.5
57	MP1A	Mx	0	1.5
58	MP1A	X	0	3.5
59	MP1A	Z	4.356	3.5
60	MP1A	Mx	0	3.5
61	MP1B	X	0	1.5
62	MP1B	Z	1.705	1.5
63	MP1B	Mx	-.001	1.5
64	MP1B	X	0	3.5
65	MP1B	Z	1.705	3.5
66	MP1B	Mx	-.001	3.5
67	MP1C	X	0	1.5
68	MP1C	Z	3.693	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
69	MP1C	Mx	.002	1.5
70	MP1C	X	0	3.5
71	MP1C	Z	3.693	3.5
72	MP1C	Mx	.002	3.5
73	O1	X	0	1
74	O1	Z	7.025	1
75	O1	Mx	0	1
76	MP3A	X	0	1
77	MP3A	Z	3.466	1
78	MP3A	Mx	0	1
79	MP3B	X	0	1
80	MP3B	Z	2.604	1
81	MP3B	Mx	.001	1
82	MP3C	X	0	1
83	MP3C	Z	2.604	1
84	MP3C	Mx	-.001	1
85	MP2A	X	0	1
86	MP2A	Z	3.466	1
87	MP2A	Mx	0	1
88	MP2B	X	0	1
89	MP2B	Z	2.274	1
90	MP2B	Mx	.000985	1
91	MP2C	X	0	1
92	MP2C	Z	2.274	1
93	MP2C	Mx	-.000985	1
94	MP5A	X	0	1
95	MP5A	Z	8.897	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	8.897	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-2.991	.5
2	MP4A	Z	5.18	.5
3	MP4A	Mx	.002	.5
4	MP4A	X	-2.991	4.5
5	MP4A	Z	5.18	4.5
6	MP4A	Mx	.002	4.5
7	MP4B	X	-2.252	.5
8	MP4B	Z	3.901	.5
9	MP4B	Mx	-.003	.5
10	MP4B	X	-2.252	4.5
11	MP4B	Z	3.901	4.5
12	MP4B	Mx	-.003	4.5
13	MP4C	X	-2.669	.5
14	MP4C	Z	4.623	.5
15	MP4C	Mx	0	.5
16	MP4C	X	-2.669	4.5
17	MP4C	Z	4.623	4.5
18	MP4C	Mx	0	4.5
19	MP2B	X	-3.494	.5
20	MP2B	Z	6.052	.5
21	MP2B	Mx	-.007	.5
22	MP2B	X	-3.494	4.5



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
23	MP2B	Z	6.052	4.5
24	MP2B	Mx	-0.007	4.5
25	MP2C	X	-3.777	.5
26	MP2C	Z	6.541	.5
27	MP2C	Mx	.004	.5
28	MP2C	X	-3.777	4.5
29	MP2C	Z	6.541	4.5
30	MP2C	Mx	.004	4.5
31	MP2B	X	-3.494	.5
32	MP2B	Z	6.052	.5
33	MP2B	Mx	-.003	.5
34	MP2B	X	-3.494	4.5
35	MP2B	Z	6.052	4.5
36	MP2B	Mx	-.003	4.5
37	MP2C	X	-3.777	.5
38	MP2C	Z	6.541	.5
39	MP2C	Mx	-.004	.5
40	MP2C	X	-3.777	4.5
41	MP2C	Z	6.541	4.5
42	MP2C	Mx	-.004	4.5
43	MP2A	X	-4.29	.5
44	MP2A	Z	7.431	.5
45	MP2A	Mx	-.003	.5
46	MP2A	X	-4.29	4.5
47	MP2A	Z	7.431	4.5
48	MP2A	Mx	-.003	4.5
49	MP2A	X	-4.29	.5
50	MP2A	Z	7.431	.5
51	MP2A	Mx	.01	.5
52	MP2A	X	-4.29	4.5
53	MP2A	Z	7.431	4.5
54	MP2A	Mx	.01	4.5
55	MP1A	X	-1.847	1.5
56	MP1A	Z	3.198	1.5
57	MP1A	Mx	.002	1.5
58	MP1A	X	-1.847	3.5
59	MP1A	Z	3.198	3.5
60	MP1A	Mx	.002	3.5
61	MP1B	X	-1.184	1.5
62	MP1B	Z	2.051	1.5
63	MP1B	Mx	-.002	1.5
64	MP1B	X	-1.184	3.5
65	MP1B	Z	2.051	3.5
66	MP1B	Mx	-.002	3.5
67	MP1C	X	-2.178	1.5
68	MP1C	Z	3.772	1.5
69	MP1C	Mx	0	1.5
70	MP1C	X	-2.178	3.5
71	MP1C	Z	3.772	3.5
72	MP1C	Mx	0	3.5
73	O1	X	-3.216	1
74	O1	Z	5.569	1
75	O1	Mx	0	1
76	MP3A	X	-1.589	1
77	MP3A	Z	2.753	1
78	MP3A	Mx	-.000794	1
79	MP3B	X	-1.158	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
80	MP3B	Z	2.006	1
81	MP3B	Mx	.001	1
82	MP3C	X	-1.589	1
83	MP3C	Z	2.753	1
84	MP3C	Mx	-.000795	1
85	MP2A	X	-1.534	1
86	MP2A	Z	2.658	1
87	MP2A	Mx	-.000767	1
88	MP2B	X	-.938	1
89	MP2B	Z	1.625	1
90	MP2B	Mx	.000938	1
91	MP2C	X	-1.534	1
92	MP2C	Z	2.658	1
93	MP2C	Mx	-.000767	1
94	MP5A	X	-3.336	1
95	MP5A	Z	5.779	1
96	MP5A	Mx	0	1
97	MP5B	X	-3.336	1
98	MP5B	Z	5.779	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP4A	X	-3.886	.5
2	MP4A	Z	2.243	.5
3	MP4A	Mx	.003	.5
4	MP4A	X	-3.886	4.5
5	MP4A	Z	2.243	4.5
6	MP4A	Mx	.003	4.5
7	MP4B	X	-4.382	.5
8	MP4B	Z	2.53	.5
9	MP4B	Mx	-.002	.5
10	MP4B	X	-4.382	4.5
11	MP4B	Z	2.53	4.5
12	MP4B	Mx	-.002	4.5
13	MP4C	X	-4.382	.5
14	MP4C	Z	2.53	.5
15	MP4C	Mx	-.002	.5
16	MP4C	X	-4.382	4.5
17	MP4C	Z	2.53	4.5
18	MP4C	Mx	-.002	4.5
19	MP2B	X	-6.378	.5
20	MP2B	Z	3.682	.5
21	MP2B	Mx	-.007	.5
22	MP2B	X	-6.378	4.5
23	MP2B	Z	3.682	4.5
24	MP2B	Mx	-.007	4.5
25	MP2C	X	-6.378	.5
26	MP2C	Z	3.682	.5
27	MP2C	Mx	.000652	.5
28	MP2C	X	-6.378	4.5
29	MP2C	Z	3.682	4.5
30	MP2C	Mx	.000652	4.5
31	MP2B	X	-6.378	.5
32	MP2B	Z	3.682	.5
33	MP2B	Mx	.000652	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	-6.378	4.5
35	MP2B	Z	3.682	4.5
36	MP2B	Mx	.000652	4.5
37	MP2C	X	-6.378	.5
38	MP2C	Z	3.682	.5
39	MP2C	Mx	-.007	.5
40	MP2C	X	-6.378	4.5
41	MP2C	Z	3.682	4.5
42	MP2C	Mx	-.007	4.5
43	MP2A	X	-6.45	.5
44	MP2A	Z	3.724	.5
45	MP2A	Mx	.002	.5
46	MP2A	X	-6.45	4.5
47	MP2A	Z	3.724	4.5
48	MP2A	Mx	.002	4.5
49	MP2A	X	-6.45	.5
50	MP2A	Z	3.724	.5
51	MP2A	Mx	.008	.5
52	MP2A	X	-6.45	4.5
53	MP2A	Z	3.724	4.5
54	MP2A	Mx	.008	4.5
55	MP1A	X	-2.051	1.5
56	MP1A	Z	1.184	1.5
57	MP1A	Mx	.002	1.5
58	MP1A	X	-2.051	3.5
59	MP1A	Z	1.184	3.5
60	MP1A	Mx	.002	3.5
61	MP1B	X	-3.198	1.5
62	MP1B	Z	1.847	1.5
63	MP1B	Mx	-.002	1.5
64	MP1B	X	-3.198	3.5
65	MP1B	Z	1.847	3.5
66	MP1B	Mx	-.002	3.5
67	MP1C	X	-3.198	1.5
68	MP1C	Z	1.847	1.5
69	MP1C	Mx	-.002	1.5
70	MP1C	X	-3.198	3.5
71	MP1C	Z	1.847	3.5
72	MP1C	Mx	-.002	3.5
73	O1	X	-4.541	1
74	O1	Z	2.622	1
75	O1	Mx	0	1
76	MP3A	X	-2.255	1
77	MP3A	Z	1.302	1
78	MP3A	Mx	-.001	1
79	MP3B	X	-2.255	1
80	MP3B	Z	1.302	1
81	MP3B	Mx	.001	1
82	MP3C	X	-3.002	1
83	MP3C	Z	1.733	1
84	MP3C	Mx	0	1
85	MP2A	X	-1.969	1
86	MP2A	Z	1.137	1
87	MP2A	Mx	-.000984	1
88	MP2B	X	-1.969	1
89	MP2B	Z	1.137	1
90	MP2B	Mx	.000985	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
91	MP2C	X	-3.002	1
92	MP2C	Z	1.733	1
93	MP2C	Mx	0	1
94	MP5A	X	-1.926	1
95	MP5A	Z	1.112	1
96	MP5A	Mx	0	1
97	MP5B	X	-1.926	1
98	MP5B	Z	1.112	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-3.739	.5
2	MP4A	Z	0	.5
3	MP4A	Mx	.002	.5
4	MP4A	X	-3.739	4.5
5	MP4A	Z	0	4.5
6	MP4A	Mx	.002	4.5
7	MP4B	X	-5.338	.5
8	MP4B	Z	0	.5
9	MP4B	Mx	0	.5
10	MP4B	X	-5.338	4.5
11	MP4B	Z	0	4.5
12	MP4B	Mx	0	4.5
13	MP4C	X	-4.505	.5
14	MP4C	Z	0	.5
15	MP4C	Mx	-.003	.5
16	MP4C	X	-4.505	4.5
17	MP4C	Z	0	4.5
18	MP4C	Mx	-.003	4.5
19	MP2B	X	-7.553	.5
20	MP2B	Z	0	.5
21	MP2B	Mx	-.004	.5
22	MP2B	X	-7.553	4.5
23	MP2B	Z	0	4.5
24	MP2B	Mx	-.004	4.5
25	MP2C	X	-6.989	.5
26	MP2C	Z	0	.5
27	MP2C	Mx	-.003	.5
28	MP2C	X	-6.989	4.5
29	MP2C	Z	0	4.5
30	MP2C	Mx	-.003	4.5
31	MP2B	X	-7.553	.5
32	MP2B	Z	0	.5
33	MP2B	Mx	.004	.5
34	MP2B	X	-7.553	4.5
35	MP2B	Z	0	4.5
36	MP2B	Mx	.004	4.5
37	MP2C	X	-6.989	.5
38	MP2C	Z	0	.5
39	MP2C	Mx	-.007	.5
40	MP2C	X	-6.989	4.5
41	MP2C	Z	0	4.5
42	MP2C	Mx	-.007	4.5
43	MP2A	X	-6.882	.5
44	MP2A	Z	0	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2A	Mx	.006	.5
46	MP2A	X	-6.882	4.5
47	MP2A	Z	0	4.5
48	MP2A	Mx	.006	4.5
49	MP2A	X	-6.882	.5
50	MP2A	Z	0	.5
51	MP2A	Mx	.006	.5
52	MP2A	X	-6.882	4.5
53	MP2A	Z	0	4.5
54	MP2A	Mx	.006	4.5
55	MP1A	X	-1.705	1.5
56	MP1A	Z	0	1.5
57	MP1A	Mx	.001	1.5
58	MP1A	X	-1.705	3.5
59	MP1A	Z	0	3.5
60	MP1A	Mx	.001	3.5
61	MP1B	X	-4.356	1.5
62	MP1B	Z	0	1.5
63	MP1B	Mx	0	1.5
64	MP1B	X	-4.356	3.5
65	MP1B	Z	0	3.5
66	MP1B	Mx	0	3.5
67	MP1C	X	-2.368	1.5
68	MP1C	Z	0	1.5
69	MP1C	Mx	-.002	1.5
70	MP1C	X	-2.368	3.5
71	MP1C	Z	0	3.5
72	MP1C	Mx	-.002	3.5
73	O1	X	-4.65	1
74	O1	Z	0	1
75	O1	Mx	0	1
76	MP3A	X	-2.317	1
77	MP3A	Z	0	1
78	MP3A	Mx	-.001	1
79	MP3B	X	-3.179	1
80	MP3B	Z	0	1
81	MP3B	Mx	.000795	1
82	MP3C	X	-3.179	1
83	MP3C	Z	0	1
84	MP3C	Mx	.000795	1
85	MP2A	X	-1.877	1
86	MP2A	Z	0	1
87	MP2A	Mx	-.000938	1
88	MP2B	X	-3.069	1
89	MP2B	Z	0	1
90	MP2B	Mx	.000767	1
91	MP2C	X	-3.069	1
92	MP2C	Z	0	1
93	MP2C	Mx	.000767	1
94	MP5A	X	0	1
95	MP5A	Z	0	1
96	MP5A	Mx	0	1
97	MP5B	X	0	1
98	MP5B	Z	0	1
99	MP5B	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-3.886	.5
2	MP4A	Z	-2.243	.5
3	MP4A	Mx	.003	.5
4	MP4A	X	-3.886	4.5
5	MP4A	Z	-2.243	4.5
6	MP4A	Mx	.003	4.5
7	MP4B	X	-4.382	.5
8	MP4B	Z	-2.53	.5
9	MP4B	Mx	.002	.5
10	MP4B	X	-4.382	4.5
11	MP4B	Z	-2.53	4.5
12	MP4B	Mx	.002	4.5
13	MP4C	X	-3.66	.5
14	MP4C	Z	-2.113	.5
15	MP4C	Mx	-.004	.5
16	MP4C	X	-3.66	4.5
17	MP4C	Z	-2.113	4.5
18	MP4C	Mx	-.004	4.5
19	MP2B	X	-6.378	.5
20	MP2B	Z	-3.682	.5
21	MP2B	Mx	-.000652	.5
22	MP2B	X	-6.378	4.5
23	MP2B	Z	-3.682	4.5
24	MP2B	Mx	-.000652	4.5
25	MP2C	X	-5.889	.5
26	MP2C	Z	-3.4	.5
27	MP2C	Mx	-.006	.5
28	MP2C	X	-5.889	4.5
29	MP2C	Z	-3.4	4.5
30	MP2C	Mx	-.006	4.5
31	MP2B	X	-6.378	.5
32	MP2B	Z	-3.682	.5
33	MP2B	Mx	.007	.5
34	MP2B	X	-6.378	4.5
35	MP2B	Z	-3.682	4.5
36	MP2B	Mx	.007	4.5
37	MP2C	X	-5.889	.5
38	MP2C	Z	-3.4	.5
39	MP2C	Mx	-.006	.5
40	MP2C	X	-5.889	4.5
41	MP2C	Z	-3.4	4.5
42	MP2C	Mx	-.006	4.5
43	MP2A	X	-6.45	.5
44	MP2A	Z	-3.724	.5
45	MP2A	Mx	.008	.5
46	MP2A	X	-6.45	4.5
47	MP2A	Z	-3.724	4.5
48	MP2A	Mx	.008	4.5
49	MP2A	X	-6.45	.5
50	MP2A	Z	-3.724	.5
51	MP2A	Mx	.002	.5
52	MP2A	X	-6.45	4.5
53	MP2A	Z	-3.724	4.5
54	MP2A	Mx	.002	4.5
55	MP1A	X	-2.051	1.5
56	MP1A	Z	-1.184	1.5
57	MP1A	Mx	.002	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-2.051	3.5
59	MP1A	Z	-1.184	3.5
60	MP1A	Mx	.002	3.5
61	MP1B	X	-3.198	1.5
62	MP1B	Z	-1.847	1.5
63	MP1B	Mx	.002	1.5
64	MP1B	X	-3.198	3.5
65	MP1B	Z	-1.847	3.5
66	MP1B	Mx	.002	3.5
67	MP1C	X	-1.477	1.5
68	MP1C	Z	-.853	1.5
69	MP1C	Mx	-.001	1.5
70	MP1C	X	-1.477	3.5
71	MP1C	Z	-.853	3.5
72	MP1C	Mx	-.001	3.5
73	O1	X	-4.541	1
74	O1	Z	-2.622	1
75	O1	Mx	0	1
76	MP3A	X	-2.255	1
77	MP3A	Z	-1.302	1
78	MP3A	Mx	-.001	1
79	MP3B	X	-3.002	1
80	MP3B	Z	-1.733	1
81	MP3B	Mx	0	1
82	MP3C	X	-2.255	1
83	MP3C	Z	-1.302	1
84	MP3C	Mx	.001	1
85	MP2A	X	-1.969	1
86	MP2A	Z	-1.137	1
87	MP2A	Mx	-.000984	1
88	MP2B	X	-3.002	1
89	MP2B	Z	-1.733	1
90	MP2B	Mx	0	1
91	MP2C	X	-1.969	1
92	MP2C	Z	-1.137	1
93	MP2C	Mx	.000985	1
94	MP5A	X	-1.926	1
95	MP5A	Z	-1.112	1
96	MP5A	Mx	0	1
97	MP5B	X	-1.926	1
98	MP5B	Z	-1.112	1
99	MP5B	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-2.991	.5
2	MP4A	Z	-5.18	.5
3	MP4A	Mx	.002	.5
4	MP4A	X	-2.991	4.5
5	MP4A	Z	-5.18	4.5
6	MP4A	Mx	.002	4.5
7	MP4B	X	-2.252	.5
8	MP4B	Z	-3.901	.5
9	MP4B	Mx	.003	.5
10	MP4B	X	-2.252	4.5
11	MP4B	Z	-3.901	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4B	Mx	.003	4.5
13	MP4C	X	-2.252	.5
14	MP4C	Z	-3.901	.5
15	MP4C	Mx	-.003	.5
16	MP4C	X	-2.252	4.5
17	MP4C	Z	-3.901	4.5
18	MP4C	Mx	-.003	4.5
19	MP2B	X	-3.494	.5
20	MP2B	Z	-6.052	.5
21	MP2B	Mx	.003	.5
22	MP2B	X	-3.494	4.5
23	MP2B	Z	-6.052	4.5
24	MP2B	Mx	.003	4.5
25	MP2C	X	-3.494	.5
26	MP2C	Z	-6.052	.5
27	MP2C	Mx	-.007	.5
28	MP2C	X	-3.494	4.5
29	MP2C	Z	-6.052	4.5
30	MP2C	Mx	-.007	4.5
31	MP2B	X	-3.494	.5
32	MP2B	Z	-6.052	.5
33	MP2B	Mx	.007	.5
34	MP2B	X	-3.494	4.5
35	MP2B	Z	-6.052	4.5
36	MP2B	Mx	.007	4.5
37	MP2C	X	-3.494	.5
38	MP2C	Z	-6.052	.5
39	MP2C	Mx	-.003	.5
40	MP2C	X	-3.494	4.5
41	MP2C	Z	-6.052	4.5
42	MP2C	Mx	-.003	4.5
43	MP2A	X	-4.29	.5
44	MP2A	Z	-7.431	.5
45	MP2A	Mx	.01	.5
46	MP2A	X	-4.29	4.5
47	MP2A	Z	-7.431	4.5
48	MP2A	Mx	.01	4.5
49	MP2A	X	-4.29	.5
50	MP2A	Z	-7.431	.5
51	MP2A	Mx	-.003	.5
52	MP2A	X	-4.29	4.5
53	MP2A	Z	-7.431	4.5
54	MP2A	Mx	-.003	4.5
55	MP1A	X	-1.847	1.5
56	MP1A	Z	-3.198	1.5
57	MP1A	Mx	.002	1.5
58	MP1A	X	-1.847	3.5
59	MP1A	Z	-3.198	3.5
60	MP1A	Mx	.002	3.5
61	MP1B	X	-1.184	1.5
62	MP1B	Z	-2.051	1.5
63	MP1B	Mx	.002	1.5
64	MP1B	X	-1.184	3.5
65	MP1B	Z	-2.051	3.5
66	MP1B	Mx	.002	3.5
67	MP1C	X	-1.184	1.5
68	MP1C	Z	-2.051	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
69	MP1C	Mx	-.002	1.5
70	MP1C	X	-1.184	3.5
71	MP1C	Z	-2.051	3.5
72	MP1C	Mx	-.002	3.5
73	O1	X	-3.216	1
74	O1	Z	-5.569	1
75	O1	Mx	0	1
76	MP3A	X	-1.589	1
77	MP3A	Z	-2.753	1
78	MP3A	Mx	-.000794	1
79	MP3B	X	-1.589	1
80	MP3B	Z	-2.753	1
81	MP3B	Mx	-.000795	1
82	MP3C	X	-1.158	1
83	MP3C	Z	-2.006	1
84	MP3C	Mx	.001	1
85	MP2A	X	-1.534	1
86	MP2A	Z	-2.658	1
87	MP2A	Mx	-.000767	1
88	MP2B	X	-1.534	1
89	MP2B	Z	-2.658	1
90	MP2B	Mx	-.000767	1
91	MP2C	X	-.938	1
92	MP2C	Z	-1.625	1
93	MP2C	Mx	.000938	1
94	MP5A	X	-3.336	1
95	MP5A	Z	-5.779	1
96	MP5A	Mx	0	1
97	MP5B	X	-3.336	1
98	MP5B	Z	-5.779	1
99	MP5B	Mx	0	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M42	Y	-500	%59

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M42	Y	-500	%93

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M42	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M42	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft, ...]	End Magnitude[lb/ft, F...]	Start Location[ft, %]	End Location[ft, %]
1	M4	Y	-9.169	-9.169	0	%100
2	M14	Y	-9.169	-9.169	0	%100
3	M27	Y	-9.169	-9.169	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, %]
4	M40	Y	-9.169	-9.169	0	%100
5	M41	Y	-9.169	-9.169	0	%100
6	M42	Y	-9.169	-9.169	0	%100
7	O1	Y	-4.721	-4.721	0	%100
8	M73	Y	-5.336	-5.336	0	%100
9	M74	Y	-5.336	-5.336	0	%100
10	M75	Y	-5.336	-5.336	0	%100
11	M76	Y	-5.336	-5.336	0	%100
12	M81	Y	-5.336	-5.336	0	%100
13	M82	Y	-5.336	-5.336	0	%100
14	M83	Y	-5.336	-5.336	0	%100
15	M84	Y	-5.336	-5.336	0	%100
16	M89	Y	-5.336	-5.336	0	%100
17	M90	Y	-5.336	-5.336	0	%100
18	M91	Y	-5.336	-5.336	0	%100
19	M92	Y	-5.336	-5.336	0	%100
20	MP4A	Y	-4.721	-4.721	0	%100
21	MP1A	Y	-4.721	-4.721	0	%100
22	MP3A	Y	-4.721	-4.721	0	%100
23	MP2A	Y	-4.721	-4.721	0	%100
24	MP5A	Y	-4.721	-4.721	0	%100
25	MP4C	Y	-4.721	-4.721	0	%100
26	MP1C	Y	-4.721	-4.721	0	%100
27	MP3C	Y	-4.721	-4.721	0	%100
28	MP2C	Y	-4.721	-4.721	0	%100
29	MP4B	Y	-4.721	-4.721	0	%100
30	MP1B	Y	-4.721	-4.721	0	%100
31	MP3B	Y	-4.721	-4.721	0	%100
32	MP2B	Y	-4.721	-4.721	0	%100
33	MP5B	Y	-4.721	-4.721	0	%100
34	M97	Y	-9.634	-9.634	0	%100
35	M98	Y	-9.634	-9.634	0	%100
36	M99	Y	-9.634	-9.634	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-8.323	-8.323	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-8.323	-8.323	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	-2.887	-2.887	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	-2.887	-2.887	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	-11.547	-11.547	0	%100
13	O1	X	0	0	0	%100
14	O1	Z	-5.998	-5.998	0	%100
15	M73	X	0	0	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	0	0	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	0	0	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	-4.58	-4.58	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	-4.58	-4.58	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	-4.58	-4.58	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	-4.58	-4.58	0	%100
31	M89	X	0	0	0	%100
32	M89	Z	-4.58	-4.58	0	%100
33	M90	X	0	0	0	%100
34	M90	Z	-4.58	-4.58	0	%100
35	M91	X	0	0	0	%100
36	M91	Z	-4.58	-4.58	0	%100
37	M92	X	0	0	0	%100
38	M92	Z	-4.58	-4.58	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	-6.582	-6.582	0	%100
41	MP1A	X	0	0	0	%100
42	MP1A	Z	-6.582	-6.582	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-6.582	-6.582	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	-6.582	-6.582	0	%100
47	MP5A	X	0	0	0	%100
48	MP5A	Z	-4.766	-4.766	0	%100
49	MP4C	X	0	0	0	%100
50	MP4C	Z	-6.582	-6.582	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	-6.582	-6.582	0	%100
53	MP3C	X	0	0	0	%100
54	MP3C	Z	-6.582	-6.582	0	%100
55	MP2C	X	0	0	0	%100
56	MP2C	Z	-6.582	-6.582	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	-6.582	-6.582	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	-6.582	-6.582	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	-6.582	-6.582	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-6.582	-6.582	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	-4.766	-4.766	0	%100
67	M97	X	0	0	0	%100
68	M97	Z	-11.669	-11.669	0	%100
69	M98	X	0	0	0	%100
70	M98	Z	-11.685	-11.685	0	%100
71	M99	X	0	0	0	%100
72	M99	Z	-11.685	-11.685	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	1.387	1.387	0	%100



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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, %]
2	M4	Z	-2.403	-2.403	0 %100
3	M14	X	1.387	1.387	0 %100
4	M14	Z	-2.403	-2.403	0 %100
5	M27	X	5.549	5.549	0 %100
6	M27	Z	-9.611	-9.611	0 %100
7	M40	X	0	0	0 %100
8	M40	Z	0	0	0 %100
9	M41	X	4.33	4.33	0 %100
10	M41	Z	-7.5	-7.5	0 %100
11	M42	X	4.33	4.33	0 %100
12	M42	Z	-7.5	-7.5	0 %100
13	O1	X	2.999	2.999	0 %100
14	O1	Z	-5.194	-5.194	0 %100
15	M73	X	.763	.763	0 %100
16	M73	Z	-1.322	-1.322	0 %100
17	M74	X	.763	.763	0 %100
18	M74	Z	-1.322	-1.322	0 %100
19	M75	X	.763	.763	0 %100
20	M75	Z	-1.322	-1.322	0 %100
21	M76	X	.763	.763	0 %100
22	M76	Z	-1.322	-1.322	0 %100
23	M81	X	.763	.763	0 %100
24	M81	Z	-1.322	-1.322	0 %100
25	M82	X	.763	.763	0 %100
26	M82	Z	-1.322	-1.322	0 %100
27	M83	X	.763	.763	0 %100
28	M83	Z	-1.322	-1.322	0 %100
29	M84	X	.763	.763	0 %100
30	M84	Z	-1.322	-1.322	0 %100
31	M89	X	3.053	3.053	0 %100
32	M89	Z	-5.289	-5.289	0 %100
33	M90	X	3.053	3.053	0 %100
34	M90	Z	-5.289	-5.289	0 %100
35	M91	X	3.053	3.053	0 %100
36	M91	Z	-5.289	-5.289	0 %100
37	M92	X	3.053	3.053	0 %100
38	M92	Z	-5.289	-5.289	0 %100
39	MP4A	X	3.291	3.291	0 %100
40	MP4A	Z	-5.7	-5.7	0 %100
41	MP1A	X	3.291	3.291	0 %100
42	MP1A	Z	-5.7	-5.7	0 %100
43	MP3A	X	3.291	3.291	0 %100
44	MP3A	Z	-5.7	-5.7	0 %100
45	MP2A	X	3.291	3.291	0 %100
46	MP2A	Z	-5.7	-5.7	0 %100
47	MP5A	X	2.383	2.383	0 %100
48	MP5A	Z	-4.128	-4.128	0 %100
49	MP4C	X	3.291	3.291	0 %100
50	MP4C	Z	-5.7	-5.7	0 %100
51	MP1C	X	3.291	3.291	0 %100
52	MP1C	Z	-5.7	-5.7	0 %100
53	MP3C	X	3.291	3.291	0 %100
54	MP3C	Z	-5.7	-5.7	0 %100
55	MP2C	X	3.291	3.291	0 %100
56	MP2C	Z	-5.7	-5.7	0 %100
57	MP4B	X	3.291	3.291	0 %100
58	MP4B	Z	-5.7	-5.7	0 %100



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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.%]
59	MP1B	X	3.291	3.291	0	%100
60	MP1B	Z	-5.7	-5.7	0	%100
61	MP3B	X	3.291	3.291	0	%100
62	MP3B	Z	-5.7	-5.7	0	%100
63	MP2B	X	3.291	3.291	0	%100
64	MP2B	Z	-5.7	-5.7	0	%100
65	MP5B	X	2.383	2.383	0	%100
66	MP5B	Z	-4.128	-4.128	0	%100
67	M97	X	5.837	5.837	0	%100
68	M97	Z	-10.11	-10.11	0	%100
69	M98	X	5.837	5.837	0	%100
70	M98	Z	-10.11	-10.11	0	%100
71	M99	X	5.845	5.845	0	%100
72	M99	Z	-10.124	-10.124	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	7.208	7.208	0	%100
2	M4	Z	-4.162	-4.162	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	7.208	7.208	0	%100
6	M27	Z	-4.162	-4.162	0	%100
7	M40	X	2.5	2.5	0	%100
8	M40	Z	-1.443	-1.443	0	%100
9	M41	X	10	10	0	%100
10	M41	Z	-5.773	-5.773	0	%100
11	M42	X	2.5	2.5	0	%100
12	M42	Z	-1.443	-1.443	0	%100
13	O1	X	5.194	5.194	0	%100
14	O1	Z	-2.999	-2.999	0	%100
15	M73	X	3.967	3.967	0	%100
16	M73	Z	-2.29	-2.29	0	%100
17	M74	X	3.967	3.967	0	%100
18	M74	Z	-2.29	-2.29	0	%100
19	M75	X	3.967	3.967	0	%100
20	M75	Z	-2.29	-2.29	0	%100
21	M76	X	3.967	3.967	0	%100
22	M76	Z	-2.29	-2.29	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	3.967	3.967	0	%100
32	M89	Z	-2.29	-2.29	0	%100
33	M90	X	3.967	3.967	0	%100
34	M90	Z	-2.29	-2.29	0	%100
35	M91	X	3.967	3.967	0	%100
36	M91	Z	-2.29	-2.29	0	%100
37	M92	X	3.967	3.967	0	%100
38	M92	Z	-2.29	-2.29	0	%100
39	MP4A	X	5.7	5.7	0	%100



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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, %]
40	MP4A	Z	-3.291	-3.291	0	%100
41	MP1A	X	5.7	5.7	0	%100
42	MP1A	Z	-3.291	-3.291	0	%100
43	MP3A	X	5.7	5.7	0	%100
44	MP3A	Z	-3.291	-3.291	0	%100
45	MP2A	X	5.7	5.7	0	%100
46	MP2A	Z	-3.291	-3.291	0	%100
47	MP5A	X	4.128	4.128	0	%100
48	MP5A	Z	-2.383	-2.383	0	%100
49	MP4C	X	5.7	5.7	0	%100
50	MP4C	Z	-3.291	-3.291	0	%100
51	MP1C	X	5.7	5.7	0	%100
52	MP1C	Z	-3.291	-3.291	0	%100
53	MP3C	X	5.7	5.7	0	%100
54	MP3C	Z	-3.291	-3.291	0	%100
55	MP2C	X	5.7	5.7	0	%100
56	MP2C	Z	-3.291	-3.291	0	%100
57	MP4B	X	5.7	5.7	0	%100
58	MP4B	Z	-3.291	-3.291	0	%100
59	MP1B	X	5.7	5.7	0	%100
60	MP1B	Z	-3.291	-3.291	0	%100
61	MP3B	X	5.7	5.7	0	%100
62	MP3B	Z	-3.291	-3.291	0	%100
63	MP2B	X	5.7	5.7	0	%100
64	MP2B	Z	-3.291	-3.291	0	%100
65	MP5B	X	4.128	4.128	0	%100
66	MP5B	Z	-2.383	-2.383	0	%100
67	M97	X	10.119	10.119	0	%100
68	M97	Z	-5.842	-5.842	0	%100
69	M98	X	10.106	10.106	0	%100
70	M98	Z	-5.835	-5.835	0	%100
71	M99	X	10.119	10.119	0	%100
72	M99	Z	-5.842	-5.842	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	11.098	11.098	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	2.774	2.774	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	2.774	2.774	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	8.66	8.66	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	8.66	8.66	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	O1	X	5.998	5.998	0	%100
14	O1	Z	0	0	0	%100
15	M73	X	6.107	6.107	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	6.107	6.107	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	6.107	6.107	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	6.107	6.107	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	1.527	1.527	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	1.527	1.527	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	1.527	1.527	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	1.527	1.527	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	1.527	1.527	0	%100
32	M89	Z	0	0	0	%100
33	M90	X	1.527	1.527	0	%100
34	M90	Z	0	0	0	%100
35	M91	X	1.527	1.527	0	%100
36	M91	Z	0	0	0	%100
37	M92	X	1.527	1.527	0	%100
38	M92	Z	0	0	0	%100
39	MP4A	X	6.582	6.582	0	%100
40	MP4A	Z	0	0	0	%100
41	MP1A	X	6.582	6.582	0	%100
42	MP1A	Z	0	0	0	%100
43	MP3A	X	6.582	6.582	0	%100
44	MP3A	Z	0	0	0	%100
45	MP2A	X	6.582	6.582	0	%100
46	MP2A	Z	0	0	0	%100
47	MP5A	X	4.766	4.766	0	%100
48	MP5A	Z	0	0	0	%100
49	MP4C	X	6.582	6.582	0	%100
50	MP4C	Z	0	0	0	%100
51	MP1C	X	6.582	6.582	0	%100
52	MP1C	Z	0	0	0	%100
53	MP3C	X	6.582	6.582	0	%100
54	MP3C	Z	0	0	0	%100
55	MP2C	X	6.582	6.582	0	%100
56	MP2C	Z	0	0	0	%100
57	MP4B	X	6.582	6.582	0	%100
58	MP4B	Z	0	0	0	%100
59	MP1B	X	6.582	6.582	0	%100
60	MP1B	Z	0	0	0	%100
61	MP3B	X	6.582	6.582	0	%100
62	MP3B	Z	0	0	0	%100
63	MP2B	X	6.582	6.582	0	%100
64	MP2B	Z	0	0	0	%100
65	MP5B	X	4.766	4.766	0	%100
66	MP5B	Z	0	0	0	%100
67	M97	X	11.69	11.69	0	%100
68	M97	Z	0	0	0	%100
69	M98	X	11.674	11.674	0	%100
70	M98	Z	0	0	0	%100
71	M99	X	11.674	11.674	0	%100
72	M99	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	7.208	7.208	0	%100



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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, %]
2	M4	Z	4.162	4.162	0 %100
3	M14	X	7.208	7.208	0 %100
4	M14	Z	4.162	4.162	0 %100
5	M27	X	0	0	0 %100
6	M27	Z	0	0	0 %100
7	M40	X	10	10	0 %100
8	M40	Z	5.773	5.773	0 %100
9	M41	X	2.5	2.5	0 %100
10	M41	Z	1.443	1.443	0 %100
11	M42	X	2.5	2.5	0 %100
12	M42	Z	1.443	1.443	0 %100
13	O1	X	5.194	5.194	0 %100
14	O1	Z	2.999	2.999	0 %100
15	M73	X	3.967	3.967	0 %100
16	M73	Z	2.29	2.29	0 %100
17	M74	X	3.967	3.967	0 %100
18	M74	Z	2.29	2.29	0 %100
19	M75	X	3.967	3.967	0 %100
20	M75	Z	2.29	2.29	0 %100
21	M76	X	3.967	3.967	0 %100
22	M76	Z	2.29	2.29	0 %100
23	M81	X	3.967	3.967	0 %100
24	M81	Z	2.29	2.29	0 %100
25	M82	X	3.967	3.967	0 %100
26	M82	Z	2.29	2.29	0 %100
27	M83	X	3.967	3.967	0 %100
28	M83	Z	2.29	2.29	0 %100
29	M84	X	3.967	3.967	0 %100
30	M84	Z	2.29	2.29	0 %100
31	M89	X	0	0	0 %100
32	M89	Z	0	0	0 %100
33	M90	X	0	0	0 %100
34	M90	Z	0	0	0 %100
35	M91	X	0	0	0 %100
36	M91	Z	0	0	0 %100
37	M92	X	0	0	0 %100
38	M92	Z	0	0	0 %100
39	MP4A	X	5.7	5.7	0 %100
40	MP4A	Z	3.291	3.291	0 %100
41	MP1A	X	5.7	5.7	0 %100
42	MP1A	Z	3.291	3.291	0 %100
43	MP3A	X	5.7	5.7	0 %100
44	MP3A	Z	3.291	3.291	0 %100
45	MP2A	X	5.7	5.7	0 %100
46	MP2A	Z	3.291	3.291	0 %100
47	MP5A	X	4.128	4.128	0 %100
48	MP5A	Z	2.383	2.383	0 %100
49	MP4C	X	5.7	5.7	0 %100
50	MP4C	Z	3.291	3.291	0 %100
51	MP1C	X	5.7	5.7	0 %100
52	MP1C	Z	3.291	3.291	0 %100
53	MP3C	X	5.7	5.7	0 %100
54	MP3C	Z	3.291	3.291	0 %100
55	MP2C	X	5.7	5.7	0 %100
56	MP2C	Z	3.291	3.291	0 %100
57	MP4B	X	5.7	5.7	0 %100
58	MP4B	Z	3.291	3.291	0 %100



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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.%]
59	MP1B	X	5.7	5.7	0	%100
60	MP1B	Z	3.291	3.291	0	%100
61	MP3B	X	5.7	5.7	0	%100
62	MP3B	Z	3.291	3.291	0	%100
63	MP2B	X	5.7	5.7	0	%100
64	MP2B	Z	3.291	3.291	0	%100
65	MP5B	X	4.128	4.128	0	%100
66	MP5B	Z	2.383	2.383	0	%100
67	M97	X	10.119	10.119	0	%100
68	M97	Z	5.842	5.842	0	%100
69	M98	X	10.119	10.119	0	%100
70	M98	Z	5.842	5.842	0	%100
71	M99	X	10.106	10.106	0	%100
72	M99	Z	5.835	5.835	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	1.387	1.387	0	%100
2	M4	Z	2.403	2.403	0	%100
3	M14	X	5.549	5.549	0	%100
4	M14	Z	9.611	9.611	0	%100
5	M27	X	1.387	1.387	0	%100
6	M27	Z	2.403	2.403	0	%100
7	M40	X	4.33	4.33	0	%100
8	M40	Z	7.5	7.5	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	4.33	4.33	0	%100
12	M42	Z	7.5	7.5	0	%100
13	O1	X	2.999	2.999	0	%100
14	O1	Z	5.194	5.194	0	%100
15	M73	X	.763	.763	0	%100
16	M73	Z	1.322	1.322	0	%100
17	M74	X	.763	.763	0	%100
18	M74	Z	1.322	1.322	0	%100
19	M75	X	.763	.763	0	%100
20	M75	Z	1.322	1.322	0	%100
21	M76	X	.763	.763	0	%100
22	M76	Z	1.322	1.322	0	%100
23	M81	X	3.053	3.053	0	%100
24	M81	Z	5.289	5.289	0	%100
25	M82	X	3.053	3.053	0	%100
26	M82	Z	5.289	5.289	0	%100
27	M83	X	3.053	3.053	0	%100
28	M83	Z	5.289	5.289	0	%100
29	M84	X	3.053	3.053	0	%100
30	M84	Z	5.289	5.289	0	%100
31	M89	X	.763	.763	0	%100
32	M89	Z	1.322	1.322	0	%100
33	M90	X	.763	.763	0	%100
34	M90	Z	1.322	1.322	0	%100
35	M91	X	.763	.763	0	%100
36	M91	Z	1.322	1.322	0	%100
37	M92	X	.763	.763	0	%100
38	M92	Z	1.322	1.322	0	%100
39	MP4A	X	3.291	3.291	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, %]
40	MP4A	Z	5.7	5.7	0	%100
41	MP1A	X	3.291	3.291	0	%100
42	MP1A	Z	5.7	5.7	0	%100
43	MP3A	X	3.291	3.291	0	%100
44	MP3A	Z	5.7	5.7	0	%100
45	MP2A	X	3.291	3.291	0	%100
46	MP2A	Z	5.7	5.7	0	%100
47	MP5A	X	2.383	2.383	0	%100
48	MP5A	Z	4.128	4.128	0	%100
49	MP4C	X	3.291	3.291	0	%100
50	MP4C	Z	5.7	5.7	0	%100
51	MP1C	X	3.291	3.291	0	%100
52	MP1C	Z	5.7	5.7	0	%100
53	MP3C	X	3.291	3.291	0	%100
54	MP3C	Z	5.7	5.7	0	%100
55	MP2C	X	3.291	3.291	0	%100
56	MP2C	Z	5.7	5.7	0	%100
57	MP4B	X	3.291	3.291	0	%100
58	MP4B	Z	5.7	5.7	0	%100
59	MP1B	X	3.291	3.291	0	%100
60	MP1B	Z	5.7	5.7	0	%100
61	MP3B	X	3.291	3.291	0	%100
62	MP3B	Z	5.7	5.7	0	%100
63	MP2B	X	3.291	3.291	0	%100
64	MP2B	Z	5.7	5.7	0	%100
65	MP5B	X	2.383	2.383	0	%100
66	MP5B	Z	4.128	4.128	0	%100
67	M97	X	5.837	5.837	0	%100
68	M97	Z	10.11	10.11	0	%100
69	M98	X	5.845	5.845	0	%100
70	M98	Z	10.124	10.124	0	%100
71	M99	X	5.837	5.837	0	%100
72	M99	Z	10.11	10.11	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	8.323	8.323	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	8.323	8.323	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	2.887	2.887	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	2.887	2.887	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	11.547	11.547	0	%100
13	O1	X	0	0	0	%100
14	O1	Z	5.998	5.998	0	%100
15	M73	X	0	0	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	0	0	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	0	0	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	4.58	4.58	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	4.58	4.58	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	4.58	4.58	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	4.58	4.58	0	%100
31	M89	X	0	0	0	%100
32	M89	Z	4.58	4.58	0	%100
33	M90	X	0	0	0	%100
34	M90	Z	4.58	4.58	0	%100
35	M91	X	0	0	0	%100
36	M91	Z	4.58	4.58	0	%100
37	M92	X	0	0	0	%100
38	M92	Z	4.58	4.58	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	6.582	6.582	0	%100
41	MP1A	X	0	0	0	%100
42	MP1A	Z	6.582	6.582	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	6.582	6.582	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	6.582	6.582	0	%100
47	MP5A	X	0	0	0	%100
48	MP5A	Z	4.766	4.766	0	%100
49	MP4C	X	0	0	0	%100
50	MP4C	Z	6.582	6.582	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	6.582	6.582	0	%100
53	MP3C	X	0	0	0	%100
54	MP3C	Z	6.582	6.582	0	%100
55	MP2C	X	0	0	0	%100
56	MP2C	Z	6.582	6.582	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	6.582	6.582	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	6.582	6.582	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	6.582	6.582	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	6.582	6.582	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	4.766	4.766	0	%100
67	M97	X	0	0	0	%100
68	M97	Z	11.669	11.669	0	%100
69	M98	X	0	0	0	%100
70	M98	Z	11.685	11.685	0	%100
71	M99	X	0	0	0	%100
72	M99	Z	11.685	11.685	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-1.387	-1.387	0	%100



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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, %]
2	M4	Z	2.403	2.403	0 %100
3	M14	X	-1.387	-1.387	0 %100
4	M14	Z	2.403	2.403	0 %100
5	M27	X	-5.549	-5.549	0 %100
6	M27	Z	9.611	9.611	0 %100
7	M40	X	0	0	0 %100
8	M40	Z	0	0	0 %100
9	M41	X	-4.33	-4.33	0 %100
10	M41	Z	7.5	7.5	0 %100
11	M42	X	-4.33	-4.33	0 %100
12	M42	Z	7.5	7.5	0 %100
13	O1	X	-2.999	-2.999	0 %100
14	O1	Z	5.194	5.194	0 %100
15	M73	X	-7.63	-7.63	0 %100
16	M73	Z	1.322	1.322	0 %100
17	M74	X	-7.63	-7.63	0 %100
18	M74	Z	1.322	1.322	0 %100
19	M75	X	-7.63	-7.63	0 %100
20	M75	Z	1.322	1.322	0 %100
21	M76	X	-7.63	-7.63	0 %100
22	M76	Z	1.322	1.322	0 %100
23	M81	X	-7.63	-7.63	0 %100
24	M81	Z	1.322	1.322	0 %100
25	M82	X	-7.63	-7.63	0 %100
26	M82	Z	1.322	1.322	0 %100
27	M83	X	-7.63	-7.63	0 %100
28	M83	Z	1.322	1.322	0 %100
29	M84	X	-7.63	-7.63	0 %100
30	M84	Z	1.322	1.322	0 %100
31	M89	X	-3.053	-3.053	0 %100
32	M89	Z	5.289	5.289	0 %100
33	M90	X	-3.053	-3.053	0 %100
34	M90	Z	5.289	5.289	0 %100
35	M91	X	-3.053	-3.053	0 %100
36	M91	Z	5.289	5.289	0 %100
37	M92	X	-3.053	-3.053	0 %100
38	M92	Z	5.289	5.289	0 %100
39	MP4A	X	-3.291	-3.291	0 %100
40	MP4A	Z	5.7	5.7	0 %100
41	MP1A	X	-3.291	-3.291	0 %100
42	MP1A	Z	5.7	5.7	0 %100
43	MP3A	X	-3.291	-3.291	0 %100
44	MP3A	Z	5.7	5.7	0 %100
45	MP2A	X	-3.291	-3.291	0 %100
46	MP2A	Z	5.7	5.7	0 %100
47	MP5A	X	-2.383	-2.383	0 %100
48	MP5A	Z	4.128	4.128	0 %100
49	MP4C	X	-3.291	-3.291	0 %100
50	MP4C	Z	5.7	5.7	0 %100
51	MP1C	X	-3.291	-3.291	0 %100
52	MP1C	Z	5.7	5.7	0 %100
53	MP3C	X	-3.291	-3.291	0 %100
54	MP3C	Z	5.7	5.7	0 %100
55	MP2C	X	-3.291	-3.291	0 %100
56	MP2C	Z	5.7	5.7	0 %100
57	MP4B	X	-3.291	-3.291	0 %100
58	MP4B	Z	5.7	5.7	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.%]
59	MP1B	X	-3.291	-3.291	0	%100
60	MP1B	Z	5.7	5.7	0	%100
61	MP3B	X	-3.291	-3.291	0	%100
62	MP3B	Z	5.7	5.7	0	%100
63	MP2B	X	-3.291	-3.291	0	%100
64	MP2B	Z	5.7	5.7	0	%100
65	MP5B	X	-2.383	-2.383	0	%100
66	MP5B	Z	4.128	4.128	0	%100
67	M97	X	-5.837	-5.837	0	%100
68	M97	Z	10.11	10.11	0	%100
69	M98	X	-5.837	-5.837	0	%100
70	M98	Z	10.11	10.11	0	%100
71	M99	X	-5.845	-5.845	0	%100
72	M99	Z	10.124	10.124	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-7.208	-7.208	0	%100
2	M4	Z	4.162	4.162	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-7.208	-7.208	0	%100
6	M27	Z	4.162	4.162	0	%100
7	M40	X	-2.5	-2.5	0	%100
8	M40	Z	1.443	1.443	0	%100
9	M41	X	-10	-10	0	%100
10	M41	Z	5.773	5.773	0	%100
11	M42	X	-2.5	-2.5	0	%100
12	M42	Z	1.443	1.443	0	%100
13	O1	X	-5.194	-5.194	0	%100
14	O1	Z	2.999	2.999	0	%100
15	M73	X	-3.967	-3.967	0	%100
16	M73	Z	2.29	2.29	0	%100
17	M74	X	-3.967	-3.967	0	%100
18	M74	Z	2.29	2.29	0	%100
19	M75	X	-3.967	-3.967	0	%100
20	M75	Z	2.29	2.29	0	%100
21	M76	X	-3.967	-3.967	0	%100
22	M76	Z	2.29	2.29	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	-3.967	-3.967	0	%100
32	M89	Z	2.29	2.29	0	%100
33	M90	X	-3.967	-3.967	0	%100
34	M90	Z	2.29	2.29	0	%100
35	M91	X	-3.967	-3.967	0	%100
36	M91	Z	2.29	2.29	0	%100
37	M92	X	-3.967	-3.967	0	%100
38	M92	Z	2.29	2.29	0	%100
39	MP4A	X	-5.7	-5.7	0	%100



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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, %]
40	MP4A	Z	3.291	3.291	0	%100
41	MP1A	X	-5.7	-5.7	0	%100
42	MP1A	Z	3.291	3.291	0	%100
43	MP3A	X	-5.7	-5.7	0	%100
44	MP3A	Z	3.291	3.291	0	%100
45	MP2A	X	-5.7	-5.7	0	%100
46	MP2A	Z	3.291	3.291	0	%100
47	MP5A	X	-4.128	-4.128	0	%100
48	MP5A	Z	2.383	2.383	0	%100
49	MP4C	X	-5.7	-5.7	0	%100
50	MP4C	Z	3.291	3.291	0	%100
51	MP1C	X	-5.7	-5.7	0	%100
52	MP1C	Z	3.291	3.291	0	%100
53	MP3C	X	-5.7	-5.7	0	%100
54	MP3C	Z	3.291	3.291	0	%100
55	MP2C	X	-5.7	-5.7	0	%100
56	MP2C	Z	3.291	3.291	0	%100
57	MP4B	X	-5.7	-5.7	0	%100
58	MP4B	Z	3.291	3.291	0	%100
59	MP1B	X	-5.7	-5.7	0	%100
60	MP1B	Z	3.291	3.291	0	%100
61	MP3B	X	-5.7	-5.7	0	%100
62	MP3B	Z	3.291	3.291	0	%100
63	MP2B	X	-5.7	-5.7	0	%100
64	MP2B	Z	3.291	3.291	0	%100
65	MP5B	X	-4.128	-4.128	0	%100
66	MP5B	Z	2.383	2.383	0	%100
67	M97	X	-10.119	-10.119	0	%100
68	M97	Z	5.842	5.842	0	%100
69	M98	X	-10.106	-10.106	0	%100
70	M98	Z	5.835	5.835	0	%100
71	M99	X	-10.119	-10.119	0	%100
72	M99	Z	5.842	5.842	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-11.098	-11.098	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-2.774	-2.774	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-2.774	-2.774	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-8.66	-8.66	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-8.66	-8.66	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	O1	X	-5.998	-5.998	0	%100
14	O1	Z	0	0	0	%100
15	M73	X	-6.107	-6.107	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	-6.107	-6.107	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	-6.107	-6.107	0	%100
20	M75	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M76	X	-6.107	-6.107	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	-1.527	-1.527	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	-1.527	-1.527	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	-1.527	-1.527	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	-1.527	-1.527	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	-1.527	-1.527	0	%100
32	M89	Z	0	0	0	%100
33	M90	X	-1.527	-1.527	0	%100
34	M90	Z	0	0	0	%100
35	M91	X	-1.527	-1.527	0	%100
36	M91	Z	0	0	0	%100
37	M92	X	-1.527	-1.527	0	%100
38	M92	Z	0	0	0	%100
39	MP4A	X	-6.582	-6.582	0	%100
40	MP4A	Z	0	0	0	%100
41	MP1A	X	-6.582	-6.582	0	%100
42	MP1A	Z	0	0	0	%100
43	MP3A	X	-6.582	-6.582	0	%100
44	MP3A	Z	0	0	0	%100
45	MP2A	X	-6.582	-6.582	0	%100
46	MP2A	Z	0	0	0	%100
47	MP5A	X	-4.766	-4.766	0	%100
48	MP5A	Z	0	0	0	%100
49	MP4C	X	-6.582	-6.582	0	%100
50	MP4C	Z	0	0	0	%100
51	MP1C	X	-6.582	-6.582	0	%100
52	MP1C	Z	0	0	0	%100
53	MP3C	X	-6.582	-6.582	0	%100
54	MP3C	Z	0	0	0	%100
55	MP2C	X	-6.582	-6.582	0	%100
56	MP2C	Z	0	0	0	%100
57	MP4B	X	-6.582	-6.582	0	%100
58	MP4B	Z	0	0	0	%100
59	MP1B	X	-6.582	-6.582	0	%100
60	MP1B	Z	0	0	0	%100
61	MP3B	X	-6.582	-6.582	0	%100
62	MP3B	Z	0	0	0	%100
63	MP2B	X	-6.582	-6.582	0	%100
64	MP2B	Z	0	0	0	%100
65	MP5B	X	-4.766	-4.766	0	%100
66	MP5B	Z	0	0	0	%100
67	M97	X	-11.69	-11.69	0	%100
68	M97	Z	0	0	0	%100
69	M98	X	-11.674	-11.674	0	%100
70	M98	Z	0	0	0	%100
71	M99	X	-11.674	-11.674	0	%100
72	M99	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-7.208	-7.208	0	%100



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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,%]
2	M4	Z	-4.162	-4.162	0 %100
3	M14	X	-7.208	-7.208	0 %100
4	M14	Z	-4.162	-4.162	0 %100
5	M27	X	0	0	0 %100
6	M27	Z	0	0	0 %100
7	M40	X	-10	-10	0 %100
8	M40	Z	-5.773	-5.773	0 %100
9	M41	X	-2.5	-2.5	0 %100
10	M41	Z	-1.443	-1.443	0 %100
11	M42	X	-2.5	-2.5	0 %100
12	M42	Z	-1.443	-1.443	0 %100
13	O1	X	-5.194	-5.194	0 %100
14	O1	Z	-2.999	-2.999	0 %100
15	M73	X	-3.967	-3.967	0 %100
16	M73	Z	-2.29	-2.29	0 %100
17	M74	X	-3.967	-3.967	0 %100
18	M74	Z	-2.29	-2.29	0 %100
19	M75	X	-3.967	-3.967	0 %100
20	M75	Z	-2.29	-2.29	0 %100
21	M76	X	-3.967	-3.967	0 %100
22	M76	Z	-2.29	-2.29	0 %100
23	M81	X	-3.967	-3.967	0 %100
24	M81	Z	-2.29	-2.29	0 %100
25	M82	X	-3.967	-3.967	0 %100
26	M82	Z	-2.29	-2.29	0 %100
27	M83	X	-3.967	-3.967	0 %100
28	M83	Z	-2.29	-2.29	0 %100
29	M84	X	-3.967	-3.967	0 %100
30	M84	Z	-2.29	-2.29	0 %100
31	M89	X	0	0	0 %100
32	M89	Z	0	0	0 %100
33	M90	X	0	0	0 %100
34	M90	Z	0	0	0 %100
35	M91	X	0	0	0 %100
36	M91	Z	0	0	0 %100
37	M92	X	0	0	0 %100
38	M92	Z	0	0	0 %100
39	MP4A	X	-5.7	-5.7	0 %100
40	MP4A	Z	-3.291	-3.291	0 %100
41	MP1A	X	-5.7	-5.7	0 %100
42	MP1A	Z	-3.291	-3.291	0 %100
43	MP3A	X	-5.7	-5.7	0 %100
44	MP3A	Z	-3.291	-3.291	0 %100
45	MP2A	X	-5.7	-5.7	0 %100
46	MP2A	Z	-3.291	-3.291	0 %100
47	MP5A	X	-4.128	-4.128	0 %100
48	MP5A	Z	-2.383	-2.383	0 %100
49	MP4C	X	-5.7	-5.7	0 %100
50	MP4C	Z	-3.291	-3.291	0 %100
51	MP1C	X	-5.7	-5.7	0 %100
52	MP1C	Z	-3.291	-3.291	0 %100
53	MP3C	X	-5.7	-5.7	0 %100
54	MP3C	Z	-3.291	-3.291	0 %100
55	MP2C	X	-5.7	-5.7	0 %100
56	MP2C	Z	-3.291	-3.291	0 %100
57	MP4B	X	-5.7	-5.7	0 %100
58	MP4B	Z	-3.291	-3.291	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.%]
59	MP1B	X	-5.7	-5.7	0	%100
60	MP1B	Z	-3.291	-3.291	0	%100
61	MP3B	X	-5.7	-5.7	0	%100
62	MP3B	Z	-3.291	-3.291	0	%100
63	MP2B	X	-5.7	-5.7	0	%100
64	MP2B	Z	-3.291	-3.291	0	%100
65	MP5B	X	-4.128	-4.128	0	%100
66	MP5B	Z	-2.383	-2.383	0	%100
67	M97	X	-10.119	-10.119	0	%100
68	M97	Z	-5.842	-5.842	0	%100
69	M98	X	-10.119	-10.119	0	%100
70	M98	Z	-5.842	-5.842	0	%100
71	M99	X	-10.106	-10.106	0	%100
72	M99	Z	-5.835	-5.835	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-1.387	-1.387	0	%100
2	M4	Z	-2.403	-2.403	0	%100
3	M14	X	-5.549	-5.549	0	%100
4	M14	Z	-9.611	-9.611	0	%100
5	M27	X	-1.387	-1.387	0	%100
6	M27	Z	-2.403	-2.403	0	%100
7	M40	X	-4.33	-4.33	0	%100
8	M40	Z	-7.5	-7.5	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	-4.33	-4.33	0	%100
12	M42	Z	-7.5	-7.5	0	%100
13	O1	X	-2.999	-2.999	0	%100
14	O1	Z	-5.194	-5.194	0	%100
15	M73	X	-7.63	-7.63	0	%100
16	M73	Z	-1.322	-1.322	0	%100
17	M74	X	-7.63	-7.63	0	%100
18	M74	Z	-1.322	-1.322	0	%100
19	M75	X	-7.63	-7.63	0	%100
20	M75	Z	-1.322	-1.322	0	%100
21	M76	X	-7.63	-7.63	0	%100
22	M76	Z	-1.322	-1.322	0	%100
23	M81	X	-3.053	-3.053	0	%100
24	M81	Z	-5.289	-5.289	0	%100
25	M82	X	-3.053	-3.053	0	%100
26	M82	Z	-5.289	-5.289	0	%100
27	M83	X	-3.053	-3.053	0	%100
28	M83	Z	-5.289	-5.289	0	%100
29	M84	X	-3.053	-3.053	0	%100
30	M84	Z	-5.289	-5.289	0	%100
31	M89	X	-7.63	-7.63	0	%100
32	M89	Z	-1.322	-1.322	0	%100
33	M90	X	-7.63	-7.63	0	%100
34	M90	Z	-1.322	-1.322	0	%100
35	M91	X	-7.63	-7.63	0	%100
36	M91	Z	-1.322	-1.322	0	%100
37	M92	X	-7.63	-7.63	0	%100
38	M92	Z	-1.322	-1.322	0	%100
39	MP4A	X	-3.291	-3.291	0	%100



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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, %]
40	MP4A	Z	-5.7	-5.7	0	%100
41	MP1A	X	-3.291	-3.291	0	%100
42	MP1A	Z	-5.7	-5.7	0	%100
43	MP3A	X	-3.291	-3.291	0	%100
44	MP3A	Z	-5.7	-5.7	0	%100
45	MP2A	X	-3.291	-3.291	0	%100
46	MP2A	Z	-5.7	-5.7	0	%100
47	MP5A	X	-2.383	-2.383	0	%100
48	MP5A	Z	-4.128	-4.128	0	%100
49	MP4C	X	-3.291	-3.291	0	%100
50	MP4C	Z	-5.7	-5.7	0	%100
51	MP1C	X	-3.291	-3.291	0	%100
52	MP1C	Z	-5.7	-5.7	0	%100
53	MP3C	X	-3.291	-3.291	0	%100
54	MP3C	Z	-5.7	-5.7	0	%100
55	MP2C	X	-3.291	-3.291	0	%100
56	MP2C	Z	-5.7	-5.7	0	%100
57	MP4B	X	-3.291	-3.291	0	%100
58	MP4B	Z	-5.7	-5.7	0	%100
59	MP1B	X	-3.291	-3.291	0	%100
60	MP1B	Z	-5.7	-5.7	0	%100
61	MP3B	X	-3.291	-3.291	0	%100
62	MP3B	Z	-5.7	-5.7	0	%100
63	MP2B	X	-3.291	-3.291	0	%100
64	MP2B	Z	-5.7	-5.7	0	%100
65	MP5B	X	-2.383	-2.383	0	%100
66	MP5B	Z	-4.128	-4.128	0	%100
67	M97	X	-5.837	-5.837	0	%100
68	M97	Z	-10.11	-10.11	0	%100
69	M98	X	-5.845	-5.845	0	%100
70	M98	Z	-10.124	-10.124	0	%100
71	M99	X	-5.837	-5.837	0	%100
72	M99	Z	-10.11	-10.11	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-2.403	-2.403	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-2.403	-2.403	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	-0.822	-0.822	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	-0.822	-0.822	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	-3.287	-3.287	0	%100
13	O1	X	0	0	0	%100
14	O1	Z	-2.185	-2.185	0	%100
15	M73	X	0	0	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	0	0	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	0	0	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	-1.386	-1.386	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	-1.386	-1.386	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	-1.386	-1.386	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	-1.386	-1.386	0	%100
31	M89	X	0	0	0	%100
32	M89	Z	-1.386	-1.386	0	%100
33	M90	X	0	0	0	%100
34	M90	Z	-1.386	-1.386	0	%100
35	M91	X	0	0	0	%100
36	M91	Z	-1.386	-1.386	0	%100
37	M92	X	0	0	0	%100
38	M92	Z	-1.386	-1.386	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	-2.365	-2.365	0	%100
41	MP1A	X	0	0	0	%100
42	MP1A	Z	-2.365	-2.365	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-2.365	-2.365	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	-2.365	-2.365	0	%100
47	MP5A	X	0	0	0	%100
48	MP5A	Z	-1.728	-1.728	0	%100
49	MP4C	X	0	0	0	%100
50	MP4C	Z	-2.365	-2.365	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	-2.365	-2.365	0	%100
53	MP3C	X	0	0	0	%100
54	MP3C	Z	-2.365	-2.365	0	%100
55	MP2C	X	0	0	0	%100
56	MP2C	Z	-2.365	-2.365	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	-2.365	-2.365	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	-2.365	-2.365	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	-2.365	-2.365	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-2.365	-2.365	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	-1.728	-1.728	0	%100
67	M97	X	0	0	0	%100
68	M97	Z	-2.794	-2.794	0	%100
69	M98	X	0	0	0	%100
70	M98	Z	-3.122	-3.122	0	%100
71	M99	X	0	0	0	%100
72	M99	Z	-3.122	-3.122	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	.4	.4	0	%100



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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, %]
2	M4	Z	-.694	-.694	0	%100
3	M14	X	.4	.4	0	%100
4	M14	Z	-.694	-.694	0	%100
5	M27	X	1.602	1.602	0	%100
6	M27	Z	-2.775	-2.775	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	1.233	1.233	0	%100
10	M41	Z	-2.135	-2.135	0	%100
11	M42	X	1.233	1.233	0	%100
12	M42	Z	-2.135	-2.135	0	%100
13	O1	X	1.093	1.093	0	%100
14	O1	Z	-1.893	-1.893	0	%100
15	M73	X	.231	.231	0	%100
16	M73	Z	-.4	-.4	0	%100
17	M74	X	.231	.231	0	%100
18	M74	Z	-.4	-.4	0	%100
19	M75	X	.231	.231	0	%100
20	M75	Z	-.4	-.4	0	%100
21	M76	X	.231	.231	0	%100
22	M76	Z	-.4	-.4	0	%100
23	M81	X	.231	.231	0	%100
24	M81	Z	-.4	-.4	0	%100
25	M82	X	.231	.231	0	%100
26	M82	Z	-.4	-.4	0	%100
27	M83	X	.231	.231	0	%100
28	M83	Z	-.4	-.4	0	%100
29	M84	X	.231	.231	0	%100
30	M84	Z	-.4	-.4	0	%100
31	M89	X	.924	.924	0	%100
32	M89	Z	-1.601	-1.601	0	%100
33	M90	X	.924	.924	0	%100
34	M90	Z	-1.601	-1.601	0	%100
35	M91	X	.924	.924	0	%100
36	M91	Z	-1.601	-1.601	0	%100
37	M92	X	.924	.924	0	%100
38	M92	Z	-1.601	-1.601	0	%100
39	MP4A	X	1.182	1.182	0	%100
40	MP4A	Z	-2.048	-2.048	0	%100
41	MP1A	X	1.182	1.182	0	%100
42	MP1A	Z	-2.048	-2.048	0	%100
43	MP3A	X	1.182	1.182	0	%100
44	MP3A	Z	-2.048	-2.048	0	%100
45	MP2A	X	1.182	1.182	0	%100
46	MP2A	Z	-2.048	-2.048	0	%100
47	MP5A	X	.864	.864	0	%100
48	MP5A	Z	-1.496	-1.496	0	%100
49	MP4C	X	1.182	1.182	0	%100
50	MP4C	Z	-2.048	-2.048	0	%100
51	MP1C	X	1.182	1.182	0	%100
52	MP1C	Z	-2.048	-2.048	0	%100
53	MP3C	X	1.182	1.182	0	%100
54	MP3C	Z	-2.048	-2.048	0	%100
55	MP2C	X	1.182	1.182	0	%100
56	MP2C	Z	-2.048	-2.048	0	%100
57	MP4B	X	1.182	1.182	0	%100
58	MP4B	Z	-2.048	-2.048	0	%100



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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.%]
59	MP1B	X	1.182	1.182	0	%100
60	MP1B	Z	-2.048	-2.048	0	%100
61	MP3B	X	1.182	1.182	0	%100
62	MP3B	Z	-2.048	-2.048	0	%100
63	MP2B	X	1.182	1.182	0	%100
64	MP2B	Z	-2.048	-2.048	0	%100
65	MP5B	X	.864	.864	0	%100
66	MP5B	Z	-1.496	-1.496	0	%100
67	M97	X	1.452	1.452	0	%100
68	M97	Z	-2.514	-2.514	0	%100
69	M98	X	1.452	1.452	0	%100
70	M98	Z	-2.514	-2.514	0	%100
71	M99	X	1.616	1.616	0	%100
72	M99	Z	-2.799	-2.799	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	2.081	2.081	0	%100
2	M4	Z	-1.201	-1.201	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	2.081	2.081	0	%100
6	M27	Z	-1.201	-1.201	0	%100
7	M40	X	.712	.712	0	%100
8	M40	Z	-.411	-.411	0	%100
9	M41	X	2.847	2.847	0	%100
10	M41	Z	-1.644	-1.644	0	%100
11	M42	X	.712	.712	0	%100
12	M42	Z	-.411	-.411	0	%100
13	O1	X	1.893	1.893	0	%100
14	O1	Z	-1.093	-1.093	0	%100
15	M73	X	1.2	1.2	0	%100
16	M73	Z	-.693	-.693	0	%100
17	M74	X	1.2	1.2	0	%100
18	M74	Z	-.693	-.693	0	%100
19	M75	X	1.2	1.2	0	%100
20	M75	Z	-.693	-.693	0	%100
21	M76	X	1.2	1.2	0	%100
22	M76	Z	-.693	-.693	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	1.2	1.2	0	%100
32	M89	Z	-.693	-.693	0	%100
33	M90	X	1.2	1.2	0	%100
34	M90	Z	-.693	-.693	0	%100
35	M91	X	1.2	1.2	0	%100
36	M91	Z	-.693	-.693	0	%100
37	M92	X	1.2	1.2	0	%100
38	M92	Z	-.693	-.693	0	%100
39	MP4A	X	2.048	2.048	0	%100



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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, %]
40	MP4A	Z	-1.182	-1.182	0	%100
41	MP1A	X	2.048	2.048	0	%100
42	MP1A	Z	-1.182	-1.182	0	%100
43	MP3A	X	2.048	2.048	0	%100
44	MP3A	Z	-1.182	-1.182	0	%100
45	MP2A	X	2.048	2.048	0	%100
46	MP2A	Z	-1.182	-1.182	0	%100
47	MP5A	X	1.496	1.496	0	%100
48	MP5A	Z	-.864	-.864	0	%100
49	MP4C	X	2.048	2.048	0	%100
50	MP4C	Z	-1.182	-1.182	0	%100
51	MP1C	X	2.048	2.048	0	%100
52	MP1C	Z	-1.182	-1.182	0	%100
53	MP3C	X	2.048	2.048	0	%100
54	MP3C	Z	-1.182	-1.182	0	%100
55	MP2C	X	2.048	2.048	0	%100
56	MP2C	Z	-1.182	-1.182	0	%100
57	MP4B	X	2.048	2.048	0	%100
58	MP4B	Z	-1.182	-1.182	0	%100
59	MP1B	X	2.048	2.048	0	%100
60	MP1B	Z	-1.182	-1.182	0	%100
61	MP3B	X	2.048	2.048	0	%100
62	MP3B	Z	-1.182	-1.182	0	%100
63	MP2B	X	2.048	2.048	0	%100
64	MP2B	Z	-1.182	-1.182	0	%100
65	MP5B	X	1.496	1.496	0	%100
66	MP5B	Z	-.864	-.864	0	%100
67	M97	X	2.704	2.704	0	%100
68	M97	Z	-1.561	-1.561	0	%100
69	M98	X	2.419	2.419	0	%100
70	M98	Z	-1.397	-1.397	0	%100
71	M99	X	2.704	2.704	0	%100
72	M99	Z	-1.561	-1.561	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	3.204	3.204	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	.801	.801	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	.801	.801	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	2.466	2.466	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	2.466	2.466	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	O1	X	2.185	2.185	0	%100
14	O1	Z	0	0	0	%100
15	M73	X	1.848	1.848	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	1.848	1.848	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	1.848	1.848	0	%100
20	M75	Z	0	0	0	%100



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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.%]
21	M76	X	1.848	1.848	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	.462	.462	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	.462	.462	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	.462	.462	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	.462	.462	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	.462	.462	0	%100
32	M89	Z	0	0	0	%100
33	M90	X	.462	.462	0	%100
34	M90	Z	0	0	0	%100
35	M91	X	.462	.462	0	%100
36	M91	Z	0	0	0	%100
37	M92	X	.462	.462	0	%100
38	M92	Z	0	0	0	%100
39	MP4A	X	2.365	2.365	0	%100
40	MP4A	Z	0	0	0	%100
41	MP1A	X	2.365	2.365	0	%100
42	MP1A	Z	0	0	0	%100
43	MP3A	X	2.365	2.365	0	%100
44	MP3A	Z	0	0	0	%100
45	MP2A	X	2.365	2.365	0	%100
46	MP2A	Z	0	0	0	%100
47	MP5A	X	1.728	1.728	0	%100
48	MP5A	Z	0	0	0	%100
49	MP4C	X	2.365	2.365	0	%100
50	MP4C	Z	0	0	0	%100
51	MP1C	X	2.365	2.365	0	%100
52	MP1C	Z	0	0	0	%100
53	MP3C	X	2.365	2.365	0	%100
54	MP3C	Z	0	0	0	%100
55	MP2C	X	2.365	2.365	0	%100
56	MP2C	Z	0	0	0	%100
57	MP4B	X	2.365	2.365	0	%100
58	MP4B	Z	0	0	0	%100
59	MP1B	X	2.365	2.365	0	%100
60	MP1B	Z	0	0	0	%100
61	MP3B	X	2.365	2.365	0	%100
62	MP3B	Z	0	0	0	%100
63	MP2B	X	2.365	2.365	0	%100
64	MP2B	Z	0	0	0	%100
65	MP5B	X	1.728	1.728	0	%100
66	MP5B	Z	0	0	0	%100
67	M97	X	3.232	3.232	0	%100
68	M97	Z	0	0	0	%100
69	M98	X	2.903	2.903	0	%100
70	M98	Z	0	0	0	%100
71	M99	X	2.903	2.903	0	%100
72	M99	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	2.081	2.081	0	%100



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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,%]
2	M4	Z	1.201	1.201	0 %100
3	M14	X	2.081	2.081	0 %100
4	M14	Z	1.201	1.201	0 %100
5	M27	X	0	0	0 %100
6	M27	Z	0	0	0 %100
7	M40	X	2.847	2.847	0 %100
8	M40	Z	1.644	1.644	0 %100
9	M41	X	.712	.712	0 %100
10	M41	Z	.411	.411	0 %100
11	M42	X	.712	.712	0 %100
12	M42	Z	.411	.411	0 %100
13	O1	X	1.893	1.893	0 %100
14	O1	Z	1.093	1.093	0 %100
15	M73	X	1.2	1.2	0 %100
16	M73	Z	.693	.693	0 %100
17	M74	X	1.2	1.2	0 %100
18	M74	Z	.693	.693	0 %100
19	M75	X	1.2	1.2	0 %100
20	M75	Z	.693	.693	0 %100
21	M76	X	1.2	1.2	0 %100
22	M76	Z	.693	.693	0 %100
23	M81	X	1.2	1.2	0 %100
24	M81	Z	.693	.693	0 %100
25	M82	X	1.2	1.2	0 %100
26	M82	Z	.693	.693	0 %100
27	M83	X	1.2	1.2	0 %100
28	M83	Z	.693	.693	0 %100
29	M84	X	1.2	1.2	0 %100
30	M84	Z	.693	.693	0 %100
31	M89	X	0	0	0 %100
32	M89	Z	0	0	0 %100
33	M90	X	0	0	0 %100
34	M90	Z	0	0	0 %100
35	M91	X	0	0	0 %100
36	M91	Z	0	0	0 %100
37	M92	X	0	0	0 %100
38	M92	Z	0	0	0 %100
39	MP4A	X	2.048	2.048	0 %100
40	MP4A	Z	1.182	1.182	0 %100
41	MP1A	X	2.048	2.048	0 %100
42	MP1A	Z	1.182	1.182	0 %100
43	MP3A	X	2.048	2.048	0 %100
44	MP3A	Z	1.182	1.182	0 %100
45	MP2A	X	2.048	2.048	0 %100
46	MP2A	Z	1.182	1.182	0 %100
47	MP5A	X	1.496	1.496	0 %100
48	MP5A	Z	.864	.864	0 %100
49	MP4C	X	2.048	2.048	0 %100
50	MP4C	Z	1.182	1.182	0 %100
51	MP1C	X	2.048	2.048	0 %100
52	MP1C	Z	1.182	1.182	0 %100
53	MP3C	X	2.048	2.048	0 %100
54	MP3C	Z	1.182	1.182	0 %100
55	MP2C	X	2.048	2.048	0 %100
56	MP2C	Z	1.182	1.182	0 %100
57	MP4B	X	2.048	2.048	0 %100
58	MP4B	Z	1.182	1.182	0 %100



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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.%]
59	MP1B	X	2.048	2.048	0	%100
60	MP1B	Z	1.182	1.182	0	%100
61	MP3B	X	2.048	2.048	0	%100
62	MP3B	Z	1.182	1.182	0	%100
63	MP2B	X	2.048	2.048	0	%100
64	MP2B	Z	1.182	1.182	0	%100
65	MP5B	X	1.496	1.496	0	%100
66	MP5B	Z	.864	.864	0	%100
67	M97	X	2.704	2.704	0	%100
68	M97	Z	1.561	1.561	0	%100
69	M98	X	2.704	2.704	0	%100
70	M98	Z	1.561	1.561	0	%100
71	M99	X	2.419	2.419	0	%100
72	M99	Z	1.397	1.397	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	.4	.4	0	%100
2	M4	Z	.694	.694	0	%100
3	M14	X	1.602	1.602	0	%100
4	M14	Z	2.775	2.775	0	%100
5	M27	X	.4	.4	0	%100
6	M27	Z	.694	.694	0	%100
7	M40	X	1.233	1.233	0	%100
8	M40	Z	2.135	2.135	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	1.233	1.233	0	%100
12	M42	Z	2.135	2.135	0	%100
13	O1	X	1.093	1.093	0	%100
14	O1	Z	1.893	1.893	0	%100
15	M73	X	.231	.231	0	%100
16	M73	Z	.4	.4	0	%100
17	M74	X	.231	.231	0	%100
18	M74	Z	.4	.4	0	%100
19	M75	X	.231	.231	0	%100
20	M75	Z	.4	.4	0	%100
21	M76	X	.231	.231	0	%100
22	M76	Z	.4	.4	0	%100
23	M81	X	.924	.924	0	%100
24	M81	Z	1.601	1.601	0	%100
25	M82	X	.924	.924	0	%100
26	M82	Z	1.601	1.601	0	%100
27	M83	X	.924	.924	0	%100
28	M83	Z	1.601	1.601	0	%100
29	M84	X	.924	.924	0	%100
30	M84	Z	1.601	1.601	0	%100
31	M89	X	.231	.231	0	%100
32	M89	Z	.4	.4	0	%100
33	M90	X	.231	.231	0	%100
34	M90	Z	.4	.4	0	%100
35	M91	X	.231	.231	0	%100
36	M91	Z	.4	.4	0	%100
37	M92	X	.231	.231	0	%100
38	M92	Z	.4	.4	0	%100
39	MP4A	X	1.182	1.182	0	%100



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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, %]
40	MP4A	Z	2.048	2.048	0	%100
41	MP1A	X	1.182	1.182	0	%100
42	MP1A	Z	2.048	2.048	0	%100
43	MP3A	X	1.182	1.182	0	%100
44	MP3A	Z	2.048	2.048	0	%100
45	MP2A	X	1.182	1.182	0	%100
46	MP2A	Z	2.048	2.048	0	%100
47	MP5A	X	.864	.864	0	%100
48	MP5A	Z	1.496	1.496	0	%100
49	MP4C	X	1.182	1.182	0	%100
50	MP4C	Z	2.048	2.048	0	%100
51	MP1C	X	1.182	1.182	0	%100
52	MP1C	Z	2.048	2.048	0	%100
53	MP3C	X	1.182	1.182	0	%100
54	MP3C	Z	2.048	2.048	0	%100
55	MP2C	X	1.182	1.182	0	%100
56	MP2C	Z	2.048	2.048	0	%100
57	MP4B	X	1.182	1.182	0	%100
58	MP4B	Z	2.048	2.048	0	%100
59	MP1B	X	1.182	1.182	0	%100
60	MP1B	Z	2.048	2.048	0	%100
61	MP3B	X	1.182	1.182	0	%100
62	MP3B	Z	2.048	2.048	0	%100
63	MP2B	X	1.182	1.182	0	%100
64	MP2B	Z	2.048	2.048	0	%100
65	MP5B	X	.864	.864	0	%100
66	MP5B	Z	1.496	1.496	0	%100
67	M97	X	1.452	1.452	0	%100
68	M97	Z	2.514	2.514	0	%100
69	M98	X	1.616	1.616	0	%100
70	M98	Z	2.799	2.799	0	%100
71	M99	X	1.452	1.452	0	%100
72	M99	Z	2.514	2.514	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	2.403	2.403	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	2.403	2.403	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	.822	.822	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	.822	.822	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	3.287	3.287	0	%100
13	O1	X	0	0	0	%100
14	O1	Z	2.185	2.185	0	%100
15	M73	X	0	0	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	0	0	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	0	0	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	1.386	1.386	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	1.386	1.386	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	1.386	1.386	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	1.386	1.386	0	%100
31	M89	X	0	0	0	%100
32	M89	Z	1.386	1.386	0	%100
33	M90	X	0	0	0	%100
34	M90	Z	1.386	1.386	0	%100
35	M91	X	0	0	0	%100
36	M91	Z	1.386	1.386	0	%100
37	M92	X	0	0	0	%100
38	M92	Z	1.386	1.386	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	2.365	2.365	0	%100
41	MP1A	X	0	0	0	%100
42	MP1A	Z	2.365	2.365	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	2.365	2.365	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	2.365	2.365	0	%100
47	MP5A	X	0	0	0	%100
48	MP5A	Z	1.728	1.728	0	%100
49	MP4C	X	0	0	0	%100
50	MP4C	Z	2.365	2.365	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	2.365	2.365	0	%100
53	MP3C	X	0	0	0	%100
54	MP3C	Z	2.365	2.365	0	%100
55	MP2C	X	0	0	0	%100
56	MP2C	Z	2.365	2.365	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	2.365	2.365	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	2.365	2.365	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	2.365	2.365	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	2.365	2.365	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	1.728	1.728	0	%100
67	M97	X	0	0	0	%100
68	M97	Z	2.794	2.794	0	%100
69	M98	X	0	0	0	%100
70	M98	Z	3.122	3.122	0	%100
71	M99	X	0	0	0	%100
72	M99	Z	3.122	3.122	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-4	-4	0	%100



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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,%]
2	M4	Z	.694	.694	0	%100
3	M14	X	-.4	-.4	0	%100
4	M14	Z	.694	.694	0	%100
5	M27	X	-1.602	-1.602	0	%100
6	M27	Z	2.775	2.775	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-1.233	-1.233	0	%100
10	M41	Z	2.135	2.135	0	%100
11	M42	X	-1.233	-1.233	0	%100
12	M42	Z	2.135	2.135	0	%100
13	O1	X	-1.093	-1.093	0	%100
14	O1	Z	1.893	1.893	0	%100
15	M73	X	-.231	-.231	0	%100
16	M73	Z	.4	.4	0	%100
17	M74	X	-.231	-.231	0	%100
18	M74	Z	.4	.4	0	%100
19	M75	X	-.231	-.231	0	%100
20	M75	Z	.4	.4	0	%100
21	M76	X	-.231	-.231	0	%100
22	M76	Z	.4	.4	0	%100
23	M81	X	-.231	-.231	0	%100
24	M81	Z	.4	.4	0	%100
25	M82	X	-.231	-.231	0	%100
26	M82	Z	.4	.4	0	%100
27	M83	X	-.231	-.231	0	%100
28	M83	Z	.4	.4	0	%100
29	M84	X	-.231	-.231	0	%100
30	M84	Z	.4	.4	0	%100
31	M89	X	-.924	-.924	0	%100
32	M89	Z	1.601	1.601	0	%100
33	M90	X	-.924	-.924	0	%100
34	M90	Z	1.601	1.601	0	%100
35	M91	X	-.924	-.924	0	%100
36	M91	Z	1.601	1.601	0	%100
37	M92	X	-.924	-.924	0	%100
38	M92	Z	1.601	1.601	0	%100
39	MP4A	X	-1.182	-1.182	0	%100
40	MP4A	Z	2.048	2.048	0	%100
41	MP1A	X	-1.182	-1.182	0	%100
42	MP1A	Z	2.048	2.048	0	%100
43	MP3A	X	-1.182	-1.182	0	%100
44	MP3A	Z	2.048	2.048	0	%100
45	MP2A	X	-1.182	-1.182	0	%100
46	MP2A	Z	2.048	2.048	0	%100
47	MP5A	X	-.864	-.864	0	%100
48	MP5A	Z	1.496	1.496	0	%100
49	MP4C	X	-1.182	-1.182	0	%100
50	MP4C	Z	2.048	2.048	0	%100
51	MP1C	X	-1.182	-1.182	0	%100
52	MP1C	Z	2.048	2.048	0	%100
53	MP3C	X	-1.182	-1.182	0	%100
54	MP3C	Z	2.048	2.048	0	%100
55	MP2C	X	-1.182	-1.182	0	%100
56	MP2C	Z	2.048	2.048	0	%100
57	MP4B	X	-1.182	-1.182	0	%100
58	MP4B	Z	2.048	2.048	0	%100



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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.%]
59	MP1B	X	-1.182	-1.182	0	%100
60	MP1B	Z	2.048	2.048	0	%100
61	MP3B	X	-1.182	-1.182	0	%100
62	MP3B	Z	2.048	2.048	0	%100
63	MP2B	X	-1.182	-1.182	0	%100
64	MP2B	Z	2.048	2.048	0	%100
65	MP5B	X	-.864	-.864	0	%100
66	MP5B	Z	1.496	1.496	0	%100
67	M97	X	-1.452	-1.452	0	%100
68	M97	Z	2.514	2.514	0	%100
69	M98	X	-1.452	-1.452	0	%100
70	M98	Z	2.514	2.514	0	%100
71	M99	X	-1.616	-1.616	0	%100
72	M99	Z	2.799	2.799	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-2.081	-2.081	0	%100
2	M4	Z	1.201	1.201	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-2.081	-2.081	0	%100
6	M27	Z	1.201	1.201	0	%100
7	M40	X	-.712	-.712	0	%100
8	M40	Z	.411	.411	0	%100
9	M41	X	-2.847	-2.847	0	%100
10	M41	Z	1.644	1.644	0	%100
11	M42	X	-.712	-.712	0	%100
12	M42	Z	.411	.411	0	%100
13	O1	X	-1.893	-1.893	0	%100
14	O1	Z	1.093	1.093	0	%100
15	M73	X	-1.2	-1.2	0	%100
16	M73	Z	.693	.693	0	%100
17	M74	X	-1.2	-1.2	0	%100
18	M74	Z	.693	.693	0	%100
19	M75	X	-1.2	-1.2	0	%100
20	M75	Z	.693	.693	0	%100
21	M76	X	-1.2	-1.2	0	%100
22	M76	Z	.693	.693	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	-1.2	-1.2	0	%100
32	M89	Z	.693	.693	0	%100
33	M90	X	-1.2	-1.2	0	%100
34	M90	Z	.693	.693	0	%100
35	M91	X	-1.2	-1.2	0	%100
36	M91	Z	.693	.693	0	%100
37	M92	X	-1.2	-1.2	0	%100
38	M92	Z	.693	.693	0	%100
39	MP4A	X	-2.048	-2.048	0	%100



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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, %]
40	MP4A	Z	1.182	1.182	0	%100
41	MP1A	X	-2.048	-2.048	0	%100
42	MP1A	Z	1.182	1.182	0	%100
43	MP3A	X	-2.048	-2.048	0	%100
44	MP3A	Z	1.182	1.182	0	%100
45	MP2A	X	-2.048	-2.048	0	%100
46	MP2A	Z	1.182	1.182	0	%100
47	MP5A	X	-1.496	-1.496	0	%100
48	MP5A	Z	.864	.864	0	%100
49	MP4C	X	-2.048	-2.048	0	%100
50	MP4C	Z	1.182	1.182	0	%100
51	MP1C	X	-2.048	-2.048	0	%100
52	MP1C	Z	1.182	1.182	0	%100
53	MP3C	X	-2.048	-2.048	0	%100
54	MP3C	Z	1.182	1.182	0	%100
55	MP2C	X	-2.048	-2.048	0	%100
56	MP2C	Z	1.182	1.182	0	%100
57	MP4B	X	-2.048	-2.048	0	%100
58	MP4B	Z	1.182	1.182	0	%100
59	MP1B	X	-2.048	-2.048	0	%100
60	MP1B	Z	1.182	1.182	0	%100
61	MP3B	X	-2.048	-2.048	0	%100
62	MP3B	Z	1.182	1.182	0	%100
63	MP2B	X	-2.048	-2.048	0	%100
64	MP2B	Z	1.182	1.182	0	%100
65	MP5B	X	-1.496	-1.496	0	%100
66	MP5B	Z	.864	.864	0	%100
67	M97	X	-2.704	-2.704	0	%100
68	M97	Z	1.561	1.561	0	%100
69	M98	X	-2.419	-2.419	0	%100
70	M98	Z	1.397	1.397	0	%100
71	M99	X	-2.704	-2.704	0	%100
72	M99	Z	1.561	1.561	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-3.204	-3.204	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-.801	-.801	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-.801	-.801	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-2.466	-2.466	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-2.466	-2.466	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	O1	X	-2.185	-2.185	0	%100
14	O1	Z	0	0	0	%100
15	M73	X	-1.848	-1.848	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	-1.848	-1.848	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	-1.848	-1.848	0	%100
20	M75	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M76	X	-1.848	-1.848	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	-.462	-.462	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	-.462	-.462	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	-.462	-.462	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	-.462	-.462	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	-.462	-.462	0	%100
32	M89	Z	0	0	0	%100
33	M90	X	-.462	-.462	0	%100
34	M90	Z	0	0	0	%100
35	M91	X	-.462	-.462	0	%100
36	M91	Z	0	0	0	%100
37	M92	X	-.462	-.462	0	%100
38	M92	Z	0	0	0	%100
39	MP4A	X	-2.365	-2.365	0	%100
40	MP4A	Z	0	0	0	%100
41	MP1A	X	-2.365	-2.365	0	%100
42	MP1A	Z	0	0	0	%100
43	MP3A	X	-2.365	-2.365	0	%100
44	MP3A	Z	0	0	0	%100
45	MP2A	X	-2.365	-2.365	0	%100
46	MP2A	Z	0	0	0	%100
47	MP5A	X	-1.728	-1.728	0	%100
48	MP5A	Z	0	0	0	%100
49	MP4C	X	-2.365	-2.365	0	%100
50	MP4C	Z	0	0	0	%100
51	MP1C	X	-2.365	-2.365	0	%100
52	MP1C	Z	0	0	0	%100
53	MP3C	X	-2.365	-2.365	0	%100
54	MP3C	Z	0	0	0	%100
55	MP2C	X	-2.365	-2.365	0	%100
56	MP2C	Z	0	0	0	%100
57	MP4B	X	-2.365	-2.365	0	%100
58	MP4B	Z	0	0	0	%100
59	MP1B	X	-2.365	-2.365	0	%100
60	MP1B	Z	0	0	0	%100
61	MP3B	X	-2.365	-2.365	0	%100
62	MP3B	Z	0	0	0	%100
63	MP2B	X	-2.365	-2.365	0	%100
64	MP2B	Z	0	0	0	%100
65	MP5B	X	-1.728	-1.728	0	%100
66	MP5B	Z	0	0	0	%100
67	M97	X	-3.232	-3.232	0	%100
68	M97	Z	0	0	0	%100
69	M98	X	-2.903	-2.903	0	%100
70	M98	Z	0	0	0	%100
71	M99	X	-2.903	-2.903	0	%100
72	M99	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-2.081	-2.081	0	%100



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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,%]
2	M4	Z	-1.201	-1.201	0 %100
3	M14	X	-2.081	-2.081	0 %100
4	M14	Z	-1.201	-1.201	0 %100
5	M27	X	0	0	0 %100
6	M27	Z	0	0	0 %100
7	M40	X	-2.847	-2.847	0 %100
8	M40	Z	-1.644	-1.644	0 %100
9	M41	X	-0.712	-0.712	0 %100
10	M41	Z	-0.411	-0.411	0 %100
11	M42	X	-0.712	-0.712	0 %100
12	M42	Z	-0.411	-0.411	0 %100
13	O1	X	-1.893	-1.893	0 %100
14	O1	Z	-1.093	-1.093	0 %100
15	M73	X	-1.2	-1.2	0 %100
16	M73	Z	-0.693	-0.693	0 %100
17	M74	X	-1.2	-1.2	0 %100
18	M74	Z	-0.693	-0.693	0 %100
19	M75	X	-1.2	-1.2	0 %100
20	M75	Z	-0.693	-0.693	0 %100
21	M76	X	-1.2	-1.2	0 %100
22	M76	Z	-0.693	-0.693	0 %100
23	M81	X	-1.2	-1.2	0 %100
24	M81	Z	-0.693	-0.693	0 %100
25	M82	X	-1.2	-1.2	0 %100
26	M82	Z	-0.693	-0.693	0 %100
27	M83	X	-1.2	-1.2	0 %100
28	M83	Z	-0.693	-0.693	0 %100
29	M84	X	-1.2	-1.2	0 %100
30	M84	Z	-0.693	-0.693	0 %100
31	M89	X	0	0	0 %100
32	M89	Z	0	0	0 %100
33	M90	X	0	0	0 %100
34	M90	Z	0	0	0 %100
35	M91	X	0	0	0 %100
36	M91	Z	0	0	0 %100
37	M92	X	0	0	0 %100
38	M92	Z	0	0	0 %100
39	MP4A	X	-2.048	-2.048	0 %100
40	MP4A	Z	-1.182	-1.182	0 %100
41	MP1A	X	-2.048	-2.048	0 %100
42	MP1A	Z	-1.182	-1.182	0 %100
43	MP3A	X	-2.048	-2.048	0 %100
44	MP3A	Z	-1.182	-1.182	0 %100
45	MP2A	X	-2.048	-2.048	0 %100
46	MP2A	Z	-1.182	-1.182	0 %100
47	MP5A	X	-1.496	-1.496	0 %100
48	MP5A	Z	-0.864	-0.864	0 %100
49	MP4C	X	-2.048	-2.048	0 %100
50	MP4C	Z	-1.182	-1.182	0 %100
51	MP1C	X	-2.048	-2.048	0 %100
52	MP1C	Z	-1.182	-1.182	0 %100
53	MP3C	X	-2.048	-2.048	0 %100
54	MP3C	Z	-1.182	-1.182	0 %100
55	MP2C	X	-2.048	-2.048	0 %100
56	MP2C	Z	-1.182	-1.182	0 %100
57	MP4B	X	-2.048	-2.048	0 %100
58	MP4B	Z	-1.182	-1.182	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.%]
59	MP1B	X	-2.048	-2.048	0	%100
60	MP1B	Z	-1.182	-1.182	0	%100
61	MP3B	X	-2.048	-2.048	0	%100
62	MP3B	Z	-1.182	-1.182	0	%100
63	MP2B	X	-2.048	-2.048	0	%100
64	MP2B	Z	-1.182	-1.182	0	%100
65	MP5B	X	-1.496	-1.496	0	%100
66	MP5B	Z	-.864	-.864	0	%100
67	M97	X	-2.704	-2.704	0	%100
68	M97	Z	-1.561	-1.561	0	%100
69	M98	X	-2.704	-2.704	0	%100
70	M98	Z	-1.561	-1.561	0	%100
71	M99	X	-2.419	-2.419	0	%100
72	M99	Z	-1.397	-1.397	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-.4	-.4	0	%100
2	M4	Z	-.694	-.694	0	%100
3	M14	X	-1.602	-1.602	0	%100
4	M14	Z	-2.775	-2.775	0	%100
5	M27	X	-.4	-.4	0	%100
6	M27	Z	-.694	-.694	0	%100
7	M40	X	-1.233	-1.233	0	%100
8	M40	Z	-2.135	-2.135	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	-1.233	-1.233	0	%100
12	M42	Z	-2.135	-2.135	0	%100
13	O1	X	-1.093	-1.093	0	%100
14	O1	Z	-1.893	-1.893	0	%100
15	M73	X	-.231	-.231	0	%100
16	M73	Z	-.4	-.4	0	%100
17	M74	X	-.231	-.231	0	%100
18	M74	Z	-.4	-.4	0	%100
19	M75	X	-.231	-.231	0	%100
20	M75	Z	-.4	-.4	0	%100
21	M76	X	-.231	-.231	0	%100
22	M76	Z	-.4	-.4	0	%100
23	M81	X	-.924	-.924	0	%100
24	M81	Z	-1.601	-1.601	0	%100
25	M82	X	-.924	-.924	0	%100
26	M82	Z	-1.601	-1.601	0	%100
27	M83	X	-.924	-.924	0	%100
28	M83	Z	-1.601	-1.601	0	%100
29	M84	X	-.924	-.924	0	%100
30	M84	Z	-1.601	-1.601	0	%100
31	M89	X	-.231	-.231	0	%100
32	M89	Z	-.4	-.4	0	%100
33	M90	X	-.231	-.231	0	%100
34	M90	Z	-.4	-.4	0	%100
35	M91	X	-.231	-.231	0	%100
36	M91	Z	-.4	-.4	0	%100
37	M92	X	-.231	-.231	0	%100
38	M92	Z	-.4	-.4	0	%100
39	MP4A	X	-1.182	-1.182	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, %]
40	MP4A	Z	-2.048	-2.048	0	%100
41	MP1A	X	-1.182	-1.182	0	%100
42	MP1A	Z	-2.048	-2.048	0	%100
43	MP3A	X	-1.182	-1.182	0	%100
44	MP3A	Z	-2.048	-2.048	0	%100
45	MP2A	X	-1.182	-1.182	0	%100
46	MP2A	Z	-2.048	-2.048	0	%100
47	MP5A	X	-.864	-.864	0	%100
48	MP5A	Z	-1.496	-1.496	0	%100
49	MP4C	X	-1.182	-1.182	0	%100
50	MP4C	Z	-2.048	-2.048	0	%100
51	MP1C	X	-1.182	-1.182	0	%100
52	MP1C	Z	-2.048	-2.048	0	%100
53	MP3C	X	-1.182	-1.182	0	%100
54	MP3C	Z	-2.048	-2.048	0	%100
55	MP2C	X	-1.182	-1.182	0	%100
56	MP2C	Z	-2.048	-2.048	0	%100
57	MP4B	X	-1.182	-1.182	0	%100
58	MP4B	Z	-2.048	-2.048	0	%100
59	MP1B	X	-1.182	-1.182	0	%100
60	MP1B	Z	-2.048	-2.048	0	%100
61	MP3B	X	-1.182	-1.182	0	%100
62	MP3B	Z	-2.048	-2.048	0	%100
63	MP2B	X	-1.182	-1.182	0	%100
64	MP2B	Z	-2.048	-2.048	0	%100
65	MP5B	X	-.864	-.864	0	%100
66	MP5B	Z	-1.496	-1.496	0	%100
67	M97	X	-1.452	-1.452	0	%100
68	M97	Z	-2.514	-2.514	0	%100
69	M98	X	-1.616	-1.616	0	%100
70	M98	Z	-2.799	-2.799	0	%100
71	M99	X	-1.452	-1.452	0	%100
72	M99	Z	-2.514	-2.514	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-.557	-.557	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-.557	-.557	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	-.193	-.193	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	-.193	-.193	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	-.772	-.772	0	%100
13	O1	X	0	0	0	%100
14	O1	Z	-.401	-.401	0	%100
15	M73	X	0	0	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	0	0	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	0	0	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	-.306	-.306	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	-.306	-.306	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	-.306	-.306	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	-.306	-.306	0	%100
31	M89	X	0	0	0	%100
32	M89	Z	-.306	-.306	0	%100
33	M90	X	0	0	0	%100
34	M90	Z	-.306	-.306	0	%100
35	M91	X	0	0	0	%100
36	M91	Z	-.306	-.306	0	%100
37	M92	X	0	0	0	%100
38	M92	Z	-.306	-.306	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	-.44	-.44	0	%100
41	MP1A	X	0	0	0	%100
42	MP1A	Z	-.44	-.44	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	-.44	-.44	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	-.44	-.44	0	%100
47	MP5A	X	0	0	0	%100
48	MP5A	Z	-.319	-.319	0	%100
49	MP4C	X	0	0	0	%100
50	MP4C	Z	-.44	-.44	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	-.44	-.44	0	%100
53	MP3C	X	0	0	0	%100
54	MP3C	Z	-.44	-.44	0	%100
55	MP2C	X	0	0	0	%100
56	MP2C	Z	-.44	-.44	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	-.44	-.44	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	-.44	-.44	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	-.44	-.44	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	-.44	-.44	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	-.319	-.319	0	%100
67	M97	X	0	0	0	%100
68	M97	Z	-.78	-.78	0	%100
69	M98	X	0	0	0	%100
70	M98	Z	-.782	-.782	0	%100
71	M99	X	0	0	0	%100
72	M99	Z	-.782	-.782	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	.093	.093	0	%100



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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,%]
2	M4	Z	-.161	-.161	0	%100
3	M14	X	.093	.093	0	%100
4	M14	Z	-.161	-.161	0	%100
5	M27	X	.371	.371	0	%100
6	M27	Z	-.643	-.643	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	.29	.29	0	%100
10	M41	Z	-.502	-.502	0	%100
11	M42	X	.29	.29	0	%100
12	M42	Z	-.502	-.502	0	%100
13	O1	X	.201	.201	0	%100
14	O1	Z	-.347	-.347	0	%100
15	M73	X	.051	.051	0	%100
16	M73	Z	-.088	-.088	0	%100
17	M74	X	.051	.051	0	%100
18	M74	Z	-.088	-.088	0	%100
19	M75	X	.051	.051	0	%100
20	M75	Z	-.088	-.088	0	%100
21	M76	X	.051	.051	0	%100
22	M76	Z	-.088	-.088	0	%100
23	M81	X	.051	.051	0	%100
24	M81	Z	-.088	-.088	0	%100
25	M82	X	.051	.051	0	%100
26	M82	Z	-.088	-.088	0	%100
27	M83	X	.051	.051	0	%100
28	M83	Z	-.088	-.088	0	%100
29	M84	X	.051	.051	0	%100
30	M84	Z	-.088	-.088	0	%100
31	M89	X	.204	.204	0	%100
32	M89	Z	-.354	-.354	0	%100
33	M90	X	.204	.204	0	%100
34	M90	Z	-.354	-.354	0	%100
35	M91	X	.204	.204	0	%100
36	M91	Z	-.354	-.354	0	%100
37	M92	X	.204	.204	0	%100
38	M92	Z	-.354	-.354	0	%100
39	MP4A	X	.22	.22	0	%100
40	MP4A	Z	-.381	-.381	0	%100
41	MP1A	X	.22	.22	0	%100
42	MP1A	Z	-.381	-.381	0	%100
43	MP3A	X	.22	.22	0	%100
44	MP3A	Z	-.381	-.381	0	%100
45	MP2A	X	.22	.22	0	%100
46	MP2A	Z	-.381	-.381	0	%100
47	MP5A	X	.159	.159	0	%100
48	MP5A	Z	-.276	-.276	0	%100
49	MP4C	X	.22	.22	0	%100
50	MP4C	Z	-.381	-.381	0	%100
51	MP1C	X	.22	.22	0	%100
52	MP1C	Z	-.381	-.381	0	%100
53	MP3C	X	.22	.22	0	%100
54	MP3C	Z	-.381	-.381	0	%100
55	MP2C	X	.22	.22	0	%100
56	MP2C	Z	-.381	-.381	0	%100
57	MP4B	X	.22	.22	0	%100
58	MP4B	Z	-.381	-.381	0	%100



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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.%]
59	MP1B	X	.22	.22	0	%100
60	MP1B	Z	-.381	-.381	0	%100
61	MP3B	X	.22	.22	0	%100
62	MP3B	Z	-.381	-.381	0	%100
63	MP2B	X	.22	.22	0	%100
64	MP2B	Z	-.381	-.381	0	%100
65	MP5B	X	.159	.159	0	%100
66	MP5B	Z	-.276	-.276	0	%100
67	M97	X	.39	.39	0	%100
68	M97	Z	-.676	-.676	0	%100
69	M98	X	.39	.39	0	%100
70	M98	Z	-.676	-.676	0	%100
71	M99	X	.391	.391	0	%100
72	M99	Z	-.677	-.677	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	.482	.482	0	%100
2	M4	Z	-.278	-.278	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	.482	.482	0	%100
6	M27	Z	-.278	-.278	0	%100
7	M40	X	.167	.167	0	%100
8	M40	Z	-.097	-.097	0	%100
9	M41	X	.669	.669	0	%100
10	M41	Z	-.386	-.386	0	%100
11	M42	X	.167	.167	0	%100
12	M42	Z	-.097	-.097	0	%100
13	O1	X	.347	.347	0	%100
14	O1	Z	-.201	-.201	0	%100
15	M73	X	.265	.265	0	%100
16	M73	Z	-.153	-.153	0	%100
17	M74	X	.265	.265	0	%100
18	M74	Z	-.153	-.153	0	%100
19	M75	X	.265	.265	0	%100
20	M75	Z	-.153	-.153	0	%100
21	M76	X	.265	.265	0	%100
22	M76	Z	-.153	-.153	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	.265	.265	0	%100
32	M89	Z	-.153	-.153	0	%100
33	M90	X	.265	.265	0	%100
34	M90	Z	-.153	-.153	0	%100
35	M91	X	.265	.265	0	%100
36	M91	Z	-.153	-.153	0	%100
37	M92	X	.265	.265	0	%100
38	M92	Z	-.153	-.153	0	%100
39	MP4A	X	.381	.381	0	%100



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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, %]
40	MP4A	Z	-.22	-.22	0	%100
41	MP1A	X	.381	.381	0	%100
42	MP1A	Z	-.22	-.22	0	%100
43	MP3A	X	.381	.381	0	%100
44	MP3A	Z	-.22	-.22	0	%100
45	MP2A	X	.381	.381	0	%100
46	MP2A	Z	-.22	-.22	0	%100
47	MP5A	X	.276	.276	0	%100
48	MP5A	Z	-.159	-.159	0	%100
49	MP4C	X	.381	.381	0	%100
50	MP4C	Z	-.22	-.22	0	%100
51	MP1C	X	.381	.381	0	%100
52	MP1C	Z	-.22	-.22	0	%100
53	MP3C	X	.381	.381	0	%100
54	MP3C	Z	-.22	-.22	0	%100
55	MP2C	X	.381	.381	0	%100
56	MP2C	Z	-.22	-.22	0	%100
57	MP4B	X	.381	.381	0	%100
58	MP4B	Z	-.22	-.22	0	%100
59	MP1B	X	.381	.381	0	%100
60	MP1B	Z	-.22	-.22	0	%100
61	MP3B	X	.381	.381	0	%100
62	MP3B	Z	-.22	-.22	0	%100
63	MP2B	X	.381	.381	0	%100
64	MP2B	Z	-.22	-.22	0	%100
65	MP5B	X	.276	.276	0	%100
66	MP5B	Z	-.159	-.159	0	%100
67	M97	X	.677	.677	0	%100
68	M97	Z	-.391	-.391	0	%100
69	M98	X	.676	.676	0	%100
70	M98	Z	-.39	-.39	0	%100
71	M99	X	.677	.677	0	%100
72	M99	Z	-.391	-.391	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	.742	.742	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	.186	.186	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	.186	.186	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	.579	.579	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	.579	.579	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	O1	X	.401	.401	0	%100
14	O1	Z	0	0	0	%100
15	M73	X	.408	.408	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	.408	.408	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	.408	.408	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	.408	.408	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	.102	.102	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	.102	.102	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	.102	.102	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	.102	.102	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	.102	.102	0	%100
32	M89	Z	0	0	0	%100
33	M90	X	.102	.102	0	%100
34	M90	Z	0	0	0	%100
35	M91	X	.102	.102	0	%100
36	M91	Z	0	0	0	%100
37	M92	X	.102	.102	0	%100
38	M92	Z	0	0	0	%100
39	MP4A	X	.44	.44	0	%100
40	MP4A	Z	0	0	0	%100
41	MP1A	X	.44	.44	0	%100
42	MP1A	Z	0	0	0	%100
43	MP3A	X	.44	.44	0	%100
44	MP3A	Z	0	0	0	%100
45	MP2A	X	.44	.44	0	%100
46	MP2A	Z	0	0	0	%100
47	MP5A	X	.319	.319	0	%100
48	MP5A	Z	0	0	0	%100
49	MP4C	X	.44	.44	0	%100
50	MP4C	Z	0	0	0	%100
51	MP1C	X	.44	.44	0	%100
52	MP1C	Z	0	0	0	%100
53	MP3C	X	.44	.44	0	%100
54	MP3C	Z	0	0	0	%100
55	MP2C	X	.44	.44	0	%100
56	MP2C	Z	0	0	0	%100
57	MP4B	X	.44	.44	0	%100
58	MP4B	Z	0	0	0	%100
59	MP1B	X	.44	.44	0	%100
60	MP1B	Z	0	0	0	%100
61	MP3B	X	.44	.44	0	%100
62	MP3B	Z	0	0	0	%100
63	MP2B	X	.44	.44	0	%100
64	MP2B	Z	0	0	0	%100
65	MP5B	X	.319	.319	0	%100
66	MP5B	Z	0	0	0	%100
67	M97	X	.782	.782	0	%100
68	M97	Z	0	0	0	%100
69	M98	X	.781	.781	0	%100
70	M98	Z	0	0	0	%100
71	M99	X	.781	.781	0	%100
72	M99	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	.482	.482	0	%100



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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,%]
2	M4	Z	.278	.278	0	%100
3	M14	X	.482	.482	0	%100
4	M14	Z	.278	.278	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	.669	.669	0	%100
8	M40	Z	.386	.386	0	%100
9	M41	X	.167	.167	0	%100
10	M41	Z	.097	.097	0	%100
11	M42	X	.167	.167	0	%100
12	M42	Z	.097	.097	0	%100
13	O1	X	.347	.347	0	%100
14	O1	Z	.201	.201	0	%100
15	M73	X	.265	.265	0	%100
16	M73	Z	.153	.153	0	%100
17	M74	X	.265	.265	0	%100
18	M74	Z	.153	.153	0	%100
19	M75	X	.265	.265	0	%100
20	M75	Z	.153	.153	0	%100
21	M76	X	.265	.265	0	%100
22	M76	Z	.153	.153	0	%100
23	M81	X	.265	.265	0	%100
24	M81	Z	.153	.153	0	%100
25	M82	X	.265	.265	0	%100
26	M82	Z	.153	.153	0	%100
27	M83	X	.265	.265	0	%100
28	M83	Z	.153	.153	0	%100
29	M84	X	.265	.265	0	%100
30	M84	Z	.153	.153	0	%100
31	M89	X	0	0	0	%100
32	M89	Z	0	0	0	%100
33	M90	X	0	0	0	%100
34	M90	Z	0	0	0	%100
35	M91	X	0	0	0	%100
36	M91	Z	0	0	0	%100
37	M92	X	0	0	0	%100
38	M92	Z	0	0	0	%100
39	MP4A	X	.381	.381	0	%100
40	MP4A	Z	.22	.22	0	%100
41	MP1A	X	.381	.381	0	%100
42	MP1A	Z	.22	.22	0	%100
43	MP3A	X	.381	.381	0	%100
44	MP3A	Z	.22	.22	0	%100
45	MP2A	X	.381	.381	0	%100
46	MP2A	Z	.22	.22	0	%100
47	MP5A	X	.276	.276	0	%100
48	MP5A	Z	.159	.159	0	%100
49	MP4C	X	.381	.381	0	%100
50	MP4C	Z	.22	.22	0	%100
51	MP1C	X	.381	.381	0	%100
52	MP1C	Z	.22	.22	0	%100
53	MP3C	X	.381	.381	0	%100
54	MP3C	Z	.22	.22	0	%100
55	MP2C	X	.381	.381	0	%100
56	MP2C	Z	.22	.22	0	%100
57	MP4B	X	.381	.381	0	%100
58	MP4B	Z	.22	.22	0	%100



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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.%]
59	MP1B	X	.381	.381	0	%100
60	MP1B	Z	.22	.22	0	%100
61	MP3B	X	.381	.381	0	%100
62	MP3B	Z	.22	.22	0	%100
63	MP2B	X	.381	.381	0	%100
64	MP2B	Z	.22	.22	0	%100
65	MP5B	X	.276	.276	0	%100
66	MP5B	Z	.159	.159	0	%100
67	M97	X	.677	.677	0	%100
68	M97	Z	.391	.391	0	%100
69	M98	X	.677	.677	0	%100
70	M98	Z	.391	.391	0	%100
71	M99	X	.676	.676	0	%100
72	M99	Z	.39	.39	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	.093	.093	0	%100
2	M4	Z	.161	.161	0	%100
3	M14	X	.371	.371	0	%100
4	M14	Z	.643	.643	0	%100
5	M27	X	.093	.093	0	%100
6	M27	Z	.161	.161	0	%100
7	M40	X	.29	.29	0	%100
8	M40	Z	.502	.502	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	.29	.29	0	%100
12	M42	Z	.502	.502	0	%100
13	O1	X	.201	.201	0	%100
14	O1	Z	.347	.347	0	%100
15	M73	X	.051	.051	0	%100
16	M73	Z	.088	.088	0	%100
17	M74	X	.051	.051	0	%100
18	M74	Z	.088	.088	0	%100
19	M75	X	.051	.051	0	%100
20	M75	Z	.088	.088	0	%100
21	M76	X	.051	.051	0	%100
22	M76	Z	.088	.088	0	%100
23	M81	X	.204	.204	0	%100
24	M81	Z	.354	.354	0	%100
25	M82	X	.204	.204	0	%100
26	M82	Z	.354	.354	0	%100
27	M83	X	.204	.204	0	%100
28	M83	Z	.354	.354	0	%100
29	M84	X	.204	.204	0	%100
30	M84	Z	.354	.354	0	%100
31	M89	X	.051	.051	0	%100
32	M89	Z	.088	.088	0	%100
33	M90	X	.051	.051	0	%100
34	M90	Z	.088	.088	0	%100
35	M91	X	.051	.051	0	%100
36	M91	Z	.088	.088	0	%100
37	M92	X	.051	.051	0	%100
38	M92	Z	.088	.088	0	%100
39	MP4A	X	.22	.22	0	%100



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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, %]
40	MP4A	Z	.381	.381	0	%100
41	MP1A	X	.22	.22	0	%100
42	MP1A	Z	.381	.381	0	%100
43	MP3A	X	.22	.22	0	%100
44	MP3A	Z	.381	.381	0	%100
45	MP2A	X	.22	.22	0	%100
46	MP2A	Z	.381	.381	0	%100
47	MP5A	X	.159	.159	0	%100
48	MP5A	Z	.276	.276	0	%100
49	MP4C	X	.22	.22	0	%100
50	MP4C	Z	.381	.381	0	%100
51	MP1C	X	.22	.22	0	%100
52	MP1C	Z	.381	.381	0	%100
53	MP3C	X	.22	.22	0	%100
54	MP3C	Z	.381	.381	0	%100
55	MP2C	X	.22	.22	0	%100
56	MP2C	Z	.381	.381	0	%100
57	MP4B	X	.22	.22	0	%100
58	MP4B	Z	.381	.381	0	%100
59	MP1B	X	.22	.22	0	%100
60	MP1B	Z	.381	.381	0	%100
61	MP3B	X	.22	.22	0	%100
62	MP3B	Z	.381	.381	0	%100
63	MP2B	X	.22	.22	0	%100
64	MP2B	Z	.381	.381	0	%100
65	MP5B	X	.159	.159	0	%100
66	MP5B	Z	.276	.276	0	%100
67	M97	X	.39	.39	0	%100
68	M97	Z	.676	.676	0	%100
69	M98	X	.391	.391	0	%100
70	M98	Z	.677	.677	0	%100
71	M99	X	.39	.39	0	%100
72	M99	Z	.676	.676	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	.557	.557	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	.557	.557	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	.193	.193	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	.193	.193	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	.772	.772	0	%100
13	O1	X	0	0	0	%100
14	O1	Z	.401	.401	0	%100
15	M73	X	0	0	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	0	0	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	0	0	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	0	0	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	.306	.306	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	.306	.306	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	.306	.306	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	.306	.306	0	%100
31	M89	X	0	0	0	%100
32	M89	Z	.306	.306	0	%100
33	M90	X	0	0	0	%100
34	M90	Z	.306	.306	0	%100
35	M91	X	0	0	0	%100
36	M91	Z	.306	.306	0	%100
37	M92	X	0	0	0	%100
38	M92	Z	.306	.306	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	.44	.44	0	%100
41	MP1A	X	0	0	0	%100
42	MP1A	Z	.44	.44	0	%100
43	MP3A	X	0	0	0	%100
44	MP3A	Z	.44	.44	0	%100
45	MP2A	X	0	0	0	%100
46	MP2A	Z	.44	.44	0	%100
47	MP5A	X	0	0	0	%100
48	MP5A	Z	.319	.319	0	%100
49	MP4C	X	0	0	0	%100
50	MP4C	Z	.44	.44	0	%100
51	MP1C	X	0	0	0	%100
52	MP1C	Z	.44	.44	0	%100
53	MP3C	X	0	0	0	%100
54	MP3C	Z	.44	.44	0	%100
55	MP2C	X	0	0	0	%100
56	MP2C	Z	.44	.44	0	%100
57	MP4B	X	0	0	0	%100
58	MP4B	Z	.44	.44	0	%100
59	MP1B	X	0	0	0	%100
60	MP1B	Z	.44	.44	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	.44	.44	0	%100
63	MP2B	X	0	0	0	%100
64	MP2B	Z	.44	.44	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	.319	.319	0	%100
67	M97	X	0	0	0	%100
68	M97	Z	.78	.78	0	%100
69	M98	X	0	0	0	%100
70	M98	Z	.782	.782	0	%100
71	M99	X	0	0	0	%100
72	M99	Z	.782	.782	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-.093	-.093	0	%100



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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,%]
2	M4	Z	.161	.161	0 %100
3	M14	X	-.093	-.093	0 %100
4	M14	Z	.161	.161	0 %100
5	M27	X	-.371	-.371	0 %100
6	M27	Z	.643	.643	0 %100
7	M40	X	0	0	0 %100
8	M40	Z	0	0	0 %100
9	M41	X	-.29	-.29	0 %100
10	M41	Z	.502	.502	0 %100
11	M42	X	-.29	-.29	0 %100
12	M42	Z	.502	.502	0 %100
13	O1	X	-.201	-.201	0 %100
14	O1	Z	.347	.347	0 %100
15	M73	X	-.051	-.051	0 %100
16	M73	Z	.088	.088	0 %100
17	M74	X	-.051	-.051	0 %100
18	M74	Z	.088	.088	0 %100
19	M75	X	-.051	-.051	0 %100
20	M75	Z	.088	.088	0 %100
21	M76	X	-.051	-.051	0 %100
22	M76	Z	.088	.088	0 %100
23	M81	X	-.051	-.051	0 %100
24	M81	Z	.088	.088	0 %100
25	M82	X	-.051	-.051	0 %100
26	M82	Z	.088	.088	0 %100
27	M83	X	-.051	-.051	0 %100
28	M83	Z	.088	.088	0 %100
29	M84	X	-.051	-.051	0 %100
30	M84	Z	.088	.088	0 %100
31	M89	X	-.204	-.204	0 %100
32	M89	Z	.354	.354	0 %100
33	M90	X	-.204	-.204	0 %100
34	M90	Z	.354	.354	0 %100
35	M91	X	-.204	-.204	0 %100
36	M91	Z	.354	.354	0 %100
37	M92	X	-.204	-.204	0 %100
38	M92	Z	.354	.354	0 %100
39	MP4A	X	-.22	-.22	0 %100
40	MP4A	Z	.381	.381	0 %100
41	MP1A	X	-.22	-.22	0 %100
42	MP1A	Z	.381	.381	0 %100
43	MP3A	X	-.22	-.22	0 %100
44	MP3A	Z	.381	.381	0 %100
45	MP2A	X	-.22	-.22	0 %100
46	MP2A	Z	.381	.381	0 %100
47	MP5A	X	-.159	-.159	0 %100
48	MP5A	Z	.276	.276	0 %100
49	MP4C	X	-.22	-.22	0 %100
50	MP4C	Z	.381	.381	0 %100
51	MP1C	X	-.22	-.22	0 %100
52	MP1C	Z	.381	.381	0 %100
53	MP3C	X	-.22	-.22	0 %100
54	MP3C	Z	.381	.381	0 %100
55	MP2C	X	-.22	-.22	0 %100
56	MP2C	Z	.381	.381	0 %100
57	MP4B	X	-.22	-.22	0 %100
58	MP4B	Z	.381	.381	0 %100



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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.%]
59	MP1B	X	-.22	-.22	0	%100
60	MP1B	Z	.381	.381	0	%100
61	MP3B	X	-.22	-.22	0	%100
62	MP3B	Z	.381	.381	0	%100
63	MP2B	X	-.22	-.22	0	%100
64	MP2B	Z	.381	.381	0	%100
65	MP5B	X	-.159	-.159	0	%100
66	MP5B	Z	.276	.276	0	%100
67	M97	X	-.39	-.39	0	%100
68	M97	Z	.676	.676	0	%100
69	M98	X	-.39	-.39	0	%100
70	M98	Z	.676	.676	0	%100
71	M99	X	-.391	-.391	0	%100
72	M99	Z	.677	.677	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-.482	-.482	0	%100
2	M4	Z	.278	.278	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-.482	-.482	0	%100
6	M27	Z	.278	.278	0	%100
7	M40	X	-.167	-.167	0	%100
8	M40	Z	.097	.097	0	%100
9	M41	X	-.669	-.669	0	%100
10	M41	Z	.386	.386	0	%100
11	M42	X	-.167	-.167	0	%100
12	M42	Z	.097	.097	0	%100
13	O1	X	-.347	-.347	0	%100
14	O1	Z	.201	.201	0	%100
15	M73	X	-.265	-.265	0	%100
16	M73	Z	.153	.153	0	%100
17	M74	X	-.265	-.265	0	%100
18	M74	Z	.153	.153	0	%100
19	M75	X	-.265	-.265	0	%100
20	M75	Z	.153	.153	0	%100
21	M76	X	-.265	-.265	0	%100
22	M76	Z	.153	.153	0	%100
23	M81	X	0	0	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	0	0	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	0	0	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	0	0	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	-.265	-.265	0	%100
32	M89	Z	.153	.153	0	%100
33	M90	X	-.265	-.265	0	%100
34	M90	Z	.153	.153	0	%100
35	M91	X	-.265	-.265	0	%100
36	M91	Z	.153	.153	0	%100
37	M92	X	-.265	-.265	0	%100
38	M92	Z	.153	.153	0	%100
39	MP4A	X	-.381	-.381	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, %]
40	MP4A	Z	.22	.22	0	%100
41	MP1A	X	-.381	-.381	0	%100
42	MP1A	Z	.22	.22	0	%100
43	MP3A	X	-.381	-.381	0	%100
44	MP3A	Z	.22	.22	0	%100
45	MP2A	X	-.381	-.381	0	%100
46	MP2A	Z	.22	.22	0	%100
47	MP5A	X	-.276	-.276	0	%100
48	MP5A	Z	.159	.159	0	%100
49	MP4C	X	-.381	-.381	0	%100
50	MP4C	Z	.22	.22	0	%100
51	MP1C	X	-.381	-.381	0	%100
52	MP1C	Z	.22	.22	0	%100
53	MP3C	X	-.381	-.381	0	%100
54	MP3C	Z	.22	.22	0	%100
55	MP2C	X	-.381	-.381	0	%100
56	MP2C	Z	.22	.22	0	%100
57	MP4B	X	-.381	-.381	0	%100
58	MP4B	Z	.22	.22	0	%100
59	MP1B	X	-.381	-.381	0	%100
60	MP1B	Z	.22	.22	0	%100
61	MP3B	X	-.381	-.381	0	%100
62	MP3B	Z	.22	.22	0	%100
63	MP2B	X	-.381	-.381	0	%100
64	MP2B	Z	.22	.22	0	%100
65	MP5B	X	-.276	-.276	0	%100
66	MP5B	Z	.159	.159	0	%100
67	M97	X	-.677	-.677	0	%100
68	M97	Z	.391	.391	0	%100
69	M98	X	-.676	-.676	0	%100
70	M98	Z	.39	.39	0	%100
71	M99	X	-.677	-.677	0	%100
72	M99	Z	.391	.391	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-.742	-.742	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-.186	-.186	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-.186	-.186	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-.579	-.579	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-.579	-.579	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	O1	X	-.401	-.401	0	%100
14	O1	Z	0	0	0	%100
15	M73	X	-.408	-.408	0	%100
16	M73	Z	0	0	0	%100
17	M74	X	-.408	-.408	0	%100
18	M74	Z	0	0	0	%100
19	M75	X	-.408	-.408	0	%100
20	M75	Z	0	0	0	%100



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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, %]
21	M76	X	-408	-408	0	%100
22	M76	Z	0	0	0	%100
23	M81	X	-102	-102	0	%100
24	M81	Z	0	0	0	%100
25	M82	X	-102	-102	0	%100
26	M82	Z	0	0	0	%100
27	M83	X	-102	-102	0	%100
28	M83	Z	0	0	0	%100
29	M84	X	-102	-102	0	%100
30	M84	Z	0	0	0	%100
31	M89	X	-102	-102	0	%100
32	M89	Z	0	0	0	%100
33	M90	X	-102	-102	0	%100
34	M90	Z	0	0	0	%100
35	M91	X	-102	-102	0	%100
36	M91	Z	0	0	0	%100
37	M92	X	-102	-102	0	%100
38	M92	Z	0	0	0	%100
39	MP4A	X	-44	-44	0	%100
40	MP4A	Z	0	0	0	%100
41	MP1A	X	-44	-44	0	%100
42	MP1A	Z	0	0	0	%100
43	MP3A	X	-44	-44	0	%100
44	MP3A	Z	0	0	0	%100
45	MP2A	X	-44	-44	0	%100
46	MP2A	Z	0	0	0	%100
47	MP5A	X	-319	-319	0	%100
48	MP5A	Z	0	0	0	%100
49	MP4C	X	-44	-44	0	%100
50	MP4C	Z	0	0	0	%100
51	MP1C	X	-44	-44	0	%100
52	MP1C	Z	0	0	0	%100
53	MP3C	X	-44	-44	0	%100
54	MP3C	Z	0	0	0	%100
55	MP2C	X	-44	-44	0	%100
56	MP2C	Z	0	0	0	%100
57	MP4B	X	-44	-44	0	%100
58	MP4B	Z	0	0	0	%100
59	MP1B	X	-44	-44	0	%100
60	MP1B	Z	0	0	0	%100
61	MP3B	X	-44	-44	0	%100
62	MP3B	Z	0	0	0	%100
63	MP2B	X	-44	-44	0	%100
64	MP2B	Z	0	0	0	%100
65	MP5B	X	-319	-319	0	%100
66	MP5B	Z	0	0	0	%100
67	M97	X	-782	-782	0	%100
68	M97	Z	0	0	0	%100
69	M98	X	-781	-781	0	%100
70	M98	Z	0	0	0	%100
71	M99	X	-781	-781	0	%100
72	M99	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-482	-482	0	%100



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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, %]
2	M4	Z	-.278	-.278	0	%100
3	M14	X	-.482	-.482	0	%100
4	M14	Z	-.278	-.278	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-.669	-.669	0	%100
8	M40	Z	-.386	-.386	0	%100
9	M41	X	-.167	-.167	0	%100
10	M41	Z	-.097	-.097	0	%100
11	M42	X	-.167	-.167	0	%100
12	M42	Z	-.097	-.097	0	%100
13	O1	X	-.347	-.347	0	%100
14	O1	Z	-.201	-.201	0	%100
15	M73	X	-.265	-.265	0	%100
16	M73	Z	-.153	-.153	0	%100
17	M74	X	-.265	-.265	0	%100
18	M74	Z	-.153	-.153	0	%100
19	M75	X	-.265	-.265	0	%100
20	M75	Z	-.153	-.153	0	%100
21	M76	X	-.265	-.265	0	%100
22	M76	Z	-.153	-.153	0	%100
23	M81	X	-.265	-.265	0	%100
24	M81	Z	-.153	-.153	0	%100
25	M82	X	-.265	-.265	0	%100
26	M82	Z	-.153	-.153	0	%100
27	M83	X	-.265	-.265	0	%100
28	M83	Z	-.153	-.153	0	%100
29	M84	X	-.265	-.265	0	%100
30	M84	Z	-.153	-.153	0	%100
31	M89	X	0	0	0	%100
32	M89	Z	0	0	0	%100
33	M90	X	0	0	0	%100
34	M90	Z	0	0	0	%100
35	M91	X	0	0	0	%100
36	M91	Z	0	0	0	%100
37	M92	X	0	0	0	%100
38	M92	Z	0	0	0	%100
39	MP4A	X	-.381	-.381	0	%100
40	MP4A	Z	-.22	-.22	0	%100
41	MP1A	X	-.381	-.381	0	%100
42	MP1A	Z	-.22	-.22	0	%100
43	MP3A	X	-.381	-.381	0	%100
44	MP3A	Z	-.22	-.22	0	%100
45	MP2A	X	-.381	-.381	0	%100
46	MP2A	Z	-.22	-.22	0	%100
47	MP5A	X	-.276	-.276	0	%100
48	MP5A	Z	-.159	-.159	0	%100
49	MP4C	X	-.381	-.381	0	%100
50	MP4C	Z	-.22	-.22	0	%100
51	MP1C	X	-.381	-.381	0	%100
52	MP1C	Z	-.22	-.22	0	%100
53	MP3C	X	-.381	-.381	0	%100
54	MP3C	Z	-.22	-.22	0	%100
55	MP2C	X	-.381	-.381	0	%100
56	MP2C	Z	-.22	-.22	0	%100
57	MP4B	X	-.381	-.381	0	%100
58	MP4B	Z	-.22	-.22	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.%]
59	MP1B	X	-.381	-.381	0	%100
60	MP1B	Z	-.22	-.22	0	%100
61	MP3B	X	-.381	-.381	0	%100
62	MP3B	Z	-.22	-.22	0	%100
63	MP2B	X	-.381	-.381	0	%100
64	MP2B	Z	-.22	-.22	0	%100
65	MP5B	X	-.276	-.276	0	%100
66	MP5B	Z	-.159	-.159	0	%100
67	M97	X	-.677	-.677	0	%100
68	M97	Z	-.391	-.391	0	%100
69	M98	X	-.677	-.677	0	%100
70	M98	Z	-.391	-.391	0	%100
71	M99	X	-.676	-.676	0	%100
72	M99	Z	-.39	-.39	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-.093	-.093	0	%100
2	M4	Z	-.161	-.161	0	%100
3	M14	X	-.371	-.371	0	%100
4	M14	Z	-.643	-.643	0	%100
5	M27	X	-.093	-.093	0	%100
6	M27	Z	-.161	-.161	0	%100
7	M40	X	-.29	-.29	0	%100
8	M40	Z	-.502	-.502	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	-.29	-.29	0	%100
12	M42	Z	-.502	-.502	0	%100
13	O1	X	-.201	-.201	0	%100
14	O1	Z	-.347	-.347	0	%100
15	M73	X	-.051	-.051	0	%100
16	M73	Z	-.088	-.088	0	%100
17	M74	X	-.051	-.051	0	%100
18	M74	Z	-.088	-.088	0	%100
19	M75	X	-.051	-.051	0	%100
20	M75	Z	-.088	-.088	0	%100
21	M76	X	-.051	-.051	0	%100
22	M76	Z	-.088	-.088	0	%100
23	M81	X	-.204	-.204	0	%100
24	M81	Z	-.354	-.354	0	%100
25	M82	X	-.204	-.204	0	%100
26	M82	Z	-.354	-.354	0	%100
27	M83	X	-.204	-.204	0	%100
28	M83	Z	-.354	-.354	0	%100
29	M84	X	-.204	-.204	0	%100
30	M84	Z	-.354	-.354	0	%100
31	M89	X	-.051	-.051	0	%100
32	M89	Z	-.088	-.088	0	%100
33	M90	X	-.051	-.051	0	%100
34	M90	Z	-.088	-.088	0	%100
35	M91	X	-.051	-.051	0	%100
36	M91	Z	-.088	-.088	0	%100
37	M92	X	-.051	-.051	0	%100
38	M92	Z	-.088	-.088	0	%100
39	MP4A	X	-.22	-.22	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, %]
40	MP4A	Z	-0.381	-0.381	0	%100
41	MP1A	X	-0.22	-0.22	0	%100
42	MP1A	Z	-0.381	-0.381	0	%100
43	MP3A	X	-0.22	-0.22	0	%100
44	MP3A	Z	-0.381	-0.381	0	%100
45	MP2A	X	-0.22	-0.22	0	%100
46	MP2A	Z	-0.381	-0.381	0	%100
47	MP5A	X	-0.159	-0.159	0	%100
48	MP5A	Z	-0.276	-0.276	0	%100
49	MP4C	X	-0.22	-0.22	0	%100
50	MP4C	Z	-0.381	-0.381	0	%100
51	MP1C	X	-0.22	-0.22	0	%100
52	MP1C	Z	-0.381	-0.381	0	%100
53	MP3C	X	-0.22	-0.22	0	%100
54	MP3C	Z	-0.381	-0.381	0	%100
55	MP2C	X	-0.22	-0.22	0	%100
56	MP2C	Z	-0.381	-0.381	0	%100
57	MP4B	X	-0.22	-0.22	0	%100
58	MP4B	Z	-0.381	-0.381	0	%100
59	MP1B	X	-0.22	-0.22	0	%100
60	MP1B	Z	-0.381	-0.381	0	%100
61	MP3B	X	-0.22	-0.22	0	%100
62	MP3B	Z	-0.381	-0.381	0	%100
63	MP2B	X	-0.22	-0.22	0	%100
64	MP2B	Z	-0.381	-0.381	0	%100
65	MP5B	X	-0.159	-0.159	0	%100
66	MP5B	Z	-0.276	-0.276	0	%100
67	M97	X	-0.39	-0.39	0	%100
68	M97	Z	-0.676	-0.676	0	%100
69	M98	X	-0.391	-0.391	0	%100
70	M98	Z	-0.677	-0.677	0	%100
71	M99	X	-0.39	-0.39	0	%100
72	M99	Z	-0.676	-0.676	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M14	Y	-0.055	-2.373	2.25	3
2	M14	Y	-2.373	-4.641	3	3.75
3	M14	Y	-4.641	-3.306	3.75	4.5
4	M14	Y	-3.306	-1.471	4.5	5.25
5	M14	Y	-1.471	-0.372	5.25	6
6	M27	Y	-0.055	-2.385	2.25	3
7	M27	Y	-2.385	-4.669	3	3.75
8	M27	Y	-4.669	-3.32	3.75	4.5
9	M27	Y	-3.32	-1.469	4.5	5.25
10	M27	Y	-1.469	-0.371	5.25	6
11	M42	Y	-0.711	-2.125	0	2.206
12	M42	Y	-2.125	-2.541	2.206	4.413
13	M42	Y	-2.541	-2.249	4.413	6.619
14	M42	Y	-2.249	-2.554	6.619	8.826
15	M42	Y	-2.554	-2.136	8.826	11.032
16	M42	Y	-2.136	-0.689	11.032	13.239
17	M69	Y	-2.293	-2.293	.145	.167
18	M70	Y	-2.272	-2.272	.145	.167
19	M71	Y	-0.297	-0.297	0	.167
20	M72	Y	-2.093	-2.093	.145	.167



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M73	Y	-1.455	-3.403	0	.175
22	M73	Y	-3.403	-4.968	.175	.35
23	M73	Y	-4.968	-6.912	.35	.525
24	M73	Y	-6.912	-10.865	.525	.7
25	M73	Y	-10.865	-16.066	.7	.875
26	M74	Y	-1.478	-3.402	0	.175
27	M74	Y	-3.402	-4.338	.175	.35
28	M74	Y	-4.338	-7.574	.35	.525
29	M74	Y	-7.574	-15.067	.525	.7
30	M74	Y	-15.067	-23.532	.7	.875
31	M75	Y	-1.733	-3.09	0	.175
32	M75	Y	-3.09	-4.31	.175	.35
33	M75	Y	-4.31	-7.829	.35	.525
34	M75	Y	-7.829	-15.039	.525	.7
35	M75	Y	-15.039	-23.504	.7	.875
36	M76	Y	-1.528	-3.632	0	.175
37	M76	Y	-3.632	-4.648	.175	.35
38	M76	Y	-4.648	-6.709	.35	.525
39	M76	Y	-6.709	-11.205	.525	.7
40	M76	Y	-11.205	-16.003	.7	.875
41	M73A	Y	-.252	-.252	0	.25
42	M4	Y	-.057	-2.38	2.25	3
43	M4	Y	-2.38	-4.661	3	3.75
44	M4	Y	-4.661	-3.336	3.75	4.5
45	M4	Y	-3.336	-1.489	4.5	5.25
46	M4	Y	-1.489	-.358	5.25	6
47	M40	Y	-.676	-2.134	0	2.206
48	M40	Y	-2.134	-2.557	2.206	4.413
49	M40	Y	-2.557	-2.25	4.413	6.619
50	M40	Y	-2.25	-2.543	6.619	8.826
51	M40	Y	-2.543	-2.117	8.826	11.032
52	M40	Y	-2.117	-.68	11.032	13.239
53	M85	Y	-2.093	-2.093	.145	.167
54	M86	Y	-.297	-.297	0	.167
55	M87	Y	-2.272	-2.272	.145	.167
56	M88	Y	-2.293	-2.293	.145	.167
57	M89	Y	-1.528	-3.632	0	.175
58	M89	Y	-3.632	-4.648	.175	.35
59	M89	Y	-4.648	-6.709	.35	.525
60	M89	Y	-6.709	-11.205	.525	.7
61	M89	Y	-11.205	-16.003	.7	.875
62	M90	Y	-1.733	-3.09	0	.175
63	M90	Y	-3.09	-4.31	.175	.35
64	M90	Y	-4.31	-7.829	.35	.525
65	M90	Y	-7.829	-15.039	.525	.7
66	M90	Y	-15.039	-23.504	.7	.875
67	M91	Y	-1.479	-3.402	0	.175
68	M91	Y	-3.402	-4.338	.175	.35
69	M91	Y	-4.338	-7.574	.35	.525
70	M91	Y	-7.574	-15.067	.525	.7
71	M91	Y	-15.067	-23.532	.7	.875
72	M92	Y	-1.455	-3.403	0	.175
73	M92	Y	-3.403	-4.968	.175	.35
74	M92	Y	-4.968	-6.912	.35	.525
75	M92	Y	-6.912	-10.865	.525	.7
76	M92	Y	-10.865	-16.066	.7	.875
77	M81A	Y	-.216	-.216	0	.25

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
78	M41	Y	- .676	-2.134	0	2.206
79	M41	Y	-2.134	-2.557	2.206	4.413
80	M41	Y	-2.557	-2.25	4.413	6.619
81	M41	Y	-2.25	-2.543	6.619	8.826
82	M41	Y	-2.543	-2.117	8.826	11.032
83	M41	Y	-2.117	-.68	11.032	13.239
84	M77	Y	-2.093	-2.093	.145	.167
85	M78	Y	-.297	-.297	0	.167
86	M79	Y	-2.272	-2.272	.145	.167
87	M80	Y	-2.293	-2.293	.145	.167
88	M81	Y	-1.528	-3.632	0	.175
89	M81	Y	-3.632	-4.648	.175	.35
90	M81	Y	-4.648	-6.709	.35	.525
91	M81	Y	-6.709	-11.205	.525	.7
92	M81	Y	-11.205	-16.003	.7	.875
93	M82	Y	-1.733	-3.09	0	.175
94	M82	Y	-3.09	-4.31	.175	.35
95	M82	Y	-4.31	-7.829	.35	.525
96	M82	Y	-7.829	-15.039	.525	.7
97	M82	Y	-15.039	-23.504	.7	.875
98	M83	Y	-1.479	-3.402	0	.175
99	M83	Y	-3.402	-4.338	.175	.35
100	M83	Y	-4.338	-7.574	.35	.525
101	M83	Y	-7.574	-15.067	.525	.7
102	M83	Y	-15.067	-23.532	.7	.875
103	M84	Y	-1.455	-3.403	0	.175
104	M84	Y	-3.403	-4.968	.175	.35
105	M84	Y	-4.968	-6.912	.35	.525
106	M84	Y	-6.912	-10.865	.525	.7
107	M84	Y	-10.865	-16.066	.7	.875
108	M77A	Y	-.216	-.216	0	.25

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M14	Y	-.104	-4.503	2.25	3
2	M14	Y	-4.503	-8.809	3	3.75
3	M14	Y	-8.809	-6.27	3.75	4.5
4	M14	Y	-6.27	-2.783	4.5	5.25
5	M14	Y	-2.783	-.703	5.25	6
6	M27	Y	-.104	-4.503	2.25	3
7	M27	Y	-4.503	-8.813	3	3.75
8	M27	Y	-8.813	-6.273	3.75	4.5
9	M27	Y	-6.273	-2.782	4.5	5.25
10	M27	Y	-2.782	-.704	5.25	6
11	M42	Y	-1.327	-4.02	0	2.206
12	M42	Y	-4.02	-4.811	2.206	4.413
13	M42	Y	-4.811	-4.257	4.413	6.619
14	M42	Y	-4.257	-4.837	6.619	8.826
15	M42	Y	-4.837	-4.05	8.826	11.032
16	M42	Y	-4.05	-1.318	11.032	13.239
17	M69	Y	-3.961	-3.961	.145	.167
18	M70	Y	-.563	-.563	0	.167
19	M71	Y	-4.3	-4.3	.145	.167
20	M72	Y	-4.341	-4.341	.145	.167
21	M73	Y	-2.892	-6.875	0	.175
22	M73	Y	-6.875	-8.798	.175	.35



Company :
 Designer :
 Job Number :
 Model Name :

Feb 19, 2021
 3:02 PM
 Checked By: _____

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
23	M73	Y	-8.798	-12.7	.35	.525
24	M73	Y	-12.7	-21.211	.525	.7
25	M73	Y	-21.211	-30.291	.7	.875
26	M74	Y	-3.281	-5.85	0	.175
27	M74	Y	-5.85	-8.158	.175	.35
28	M74	Y	-8.158	-14.819	.35	.525
29	M74	Y	-14.819	-28.467	.525	.7
30	M74	Y	-28.467	-44.49	.7	.875
31	M75	Y	-2.799	-6.439	0	.175
32	M75	Y	-6.439	-8.212	.175	.35
33	M75	Y	-8.212	-14.337	.35	.525
34	M75	Y	-14.337	-28.521	.525	.7
35	M75	Y	-28.521	-44.543	.7	.875
36	M76	Y	-2.754	-6.441	0	.175
37	M76	Y	-6.441	-9.405	.175	.35
38	M76	Y	-9.405	-13.084	.35	.525
39	M76	Y	-13.084	-20.566	.525	.7
40	M76	Y	-20.566	-30.411	.7	.875
41	M73A	Y	-.408	-.408	0	.25
42	M4	Y	-.107	-4.506	2.25	3
43	M4	Y	-4.506	-8.824	3	3.75
44	M4	Y	-8.824	-6.316	3.75	4.5
45	M4	Y	-6.316	-2.818	4.5	5.25
46	M4	Y	-2.818	-.677	5.25	6
47	M41	Y	-1.279	-4.039	0	2.206
48	M41	Y	-4.039	-4.84	2.206	4.413
49	M41	Y	-4.84	-4.259	4.413	6.619
50	M41	Y	-4.259	-4.813	6.619	8.826
51	M41	Y	-4.813	-4.008	8.826	11.032
52	M41	Y	-4.008	-1.286	11.032	13.239
53	M77	Y	-3.961	-3.961	.145	.167
54	M78	Y	-.563	-.563	0	.167
55	M79	Y	-4.3	-4.3	.145	.167
56	M80	Y	-4.341	-4.341	.145	.167
57	M81	Y	-2.892	-6.875	0	.175
58	M81	Y	-6.875	-8.798	.175	.35
59	M81	Y	-8.798	-12.7	.35	.525
60	M81	Y	-12.7	-21.211	.525	.7
61	M81	Y	-21.211	-30.291	.7	.875
62	M82	Y	-3.281	-5.85	0	.175
63	M82	Y	-5.85	-8.158	.175	.35
64	M82	Y	-8.158	-14.819	.35	.525
65	M82	Y	-14.819	-28.467	.525	.7
66	M82	Y	-28.467	-44.49	.7	.875
67	M83	Y	-2.799	-6.439	0	.175
68	M83	Y	-6.439	-8.212	.175	.35
69	M83	Y	-8.212	-14.337	.35	.525
70	M83	Y	-14.337	-28.521	.525	.7
71	M83	Y	-28.521	-44.543	.7	.875
72	M84	Y	-2.754	-6.441	0	.175
73	M84	Y	-6.441	-9.405	.175	.35
74	M84	Y	-9.405	-13.084	.35	.525
75	M84	Y	-13.084	-20.566	.525	.7
76	M84	Y	-20.566	-30.411	.7	.875
77	M77A	Y	-.408	-.408	0	.25
78	M40	Y	-1.28	-4.039	0	2.206
79	M40	Y	-4.039	-4.84	2.206	4.413

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
80	M40	Y	-4.84	-4.259	4.413	6.619
81	M40	Y	-4.259	-4.813	6.619	8.826
82	M40	Y	-4.813	-4.008	8.826	11.032
83	M40	Y	-4.008	-1.286	11.032	13.239
84	M85	Y	-3.961	-3.961	.145	.167
85	M86	Y	-.563	-.563	0	.167
86	M87	Y	-4.3	-4.3	.145	.167
87	M88	Y	-4.341	-4.341	.145	.167
88	M89	Y	-2.892	-6.875	0	.175
89	M89	Y	-6.875	-8.798	.175	.35
90	M89	Y	-8.798	-12.7	.35	.525
91	M89	Y	-12.7	-21.211	.525	.7
92	M89	Y	-21.211	-30.291	.7	.875
93	M90	Y	-3.281	-5.85	0	.175
94	M90	Y	-5.85	-8.158	.175	.35
95	M90	Y	-8.158	-14.819	.35	.525
96	M90	Y	-14.819	-28.467	.525	.7
97	M90	Y	-28.467	-44.49	.7	.875
98	M91	Y	-2.799	-6.439	0	.175
99	M91	Y	-6.439	-8.212	.175	.35
100	M91	Y	-8.212	-14.337	.35	.525
101	M91	Y	-14.337	-28.521	.525	.7
102	M91	Y	-28.521	-44.543	.7	.875
103	M92	Y	-2.754	-6.441	0	.175
104	M92	Y	-6.441	-9.405	.175	.35
105	M92	Y	-9.405	-13.084	.35	.525
106	M92	Y	-13.084	-20.566	.525	.7
107	M92	Y	-20.566	-30.411	.7	.875
108	M81A	Y	-.408	-.408	0	.25

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Dis...	Magnitude[ksf]
1	N17	N29	N130	N129	Y	Tw...	-.005
2	N17	N5	N128	N129	Y	Tw...	-.005
3	N130	N128	N5	N29	Y	Tw...	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Dis...	Magnitude[ksf]
1	N17	N129	N130	N29	Y	Tw...	-.01
2	N130	N128	N5	N29	Y	Tw...	-.01
3	N17	N5	N128	N129	Y	Tw...	-.01

Envelope Joint Reactions

	Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	max 487.929	10	-520.787	7	3686.235	1	-.352	7	1.049	4	.009	2
2		min -487.378	4	-1608....	13	-1233.281	7	-1.029	13	-1.051	10	-.055	22
3	N14	max 3077.778	9	-427.809	3	753.937	2	.502	24	1.291	12	.938	18
4		min -1057.545	3	-1524....	21	-1920.584	8	-.054	6	-1.291	6	.278	12
5	N26	max 1062.549	11	-382.882	11	692.436	12	.458	41	.914	8	-.226	11
6		min -2654.035	5	-1414....	41	-1609.964	6	.13	11	-.914	2	-.793	41
7	N132	max 21.748	10	3836.51	13	-1161.932	7	0	51	0	4	0	10
8		min -21.757	4	1384.3...	7	-3162.204	13	0	1	0	10	0	4
9	N134	max -954.219	3	3955.3...	21	1630.826	21	0	6	0	12	0	12

Envelope Joint Reactions (Continued)

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
10	min -2824.274	21	1312.1...	3	550.821	3	0	12	0	6	0	6
11	N136 max 2452.622	17	3440.4...	17	1415.955	17	0	8	0	8	0	8
12	min 793.797	11	1089.9...	11	458.376	11	0	2	0	2	0	2
13	Totals: max 3397.145	10	6554.4...	19	3924.025	1						
14	min -3397.146	4	3204.97	1	-3924.025	7						

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

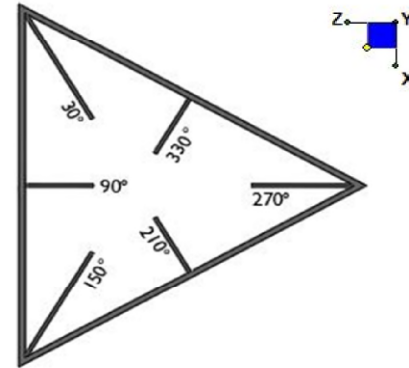
Member	Shape	Code Check	Loc[ft]	LC	Shear	Dir	LC	phi*Pn...	phi*Pnt...	phi*Mn...	phi*Mn...Cb	Eqn			
1	M4	HSS4X4X4	.216	5.547	16	.058	2.5	y	23	110253...	139518	16.181	16.181	2...	H1-1b
2	M14	HSS4X4X4	.224	5.547	24	.059	2.5	y	19	110253...	139518	16.181	16.181	2...	H1-1b
3	M27	HSS4X4X4	.211	5.547	14	.050	2.5	y	17	110253...	139518	16.181	16.181	2...	H1-1b
4	M40	HSS4X4X4	.156	0	17	.060	13.2...	z	11	67000...	139518	16.181	16.181	3...	H1-1b
5	M41	HSS4X4X4	.153	0	21	.061	0	y	2	67000...	139518	16.181	16.181	3...	H1-1b
6	M42	HSS4X4X4	.159	0	13	.064	0	z	7	67000...	139518	16.181	16.181	2...	H1-1b
7	O1	PIPE 2.0	.150	3.333	1	.013	3.333		1	26521...	32130	1.872	1.872	1	H1-1b
8	M73	L2x2x4	.022	0	16	.003	0	z	23	29422...	30585.6	.691	1.577	2...	H2-1
9	M74	L2x2x4	.027	0	16	.003	0	z	23	29422...	30585.6	.691	1.577	2...	H2-1
10	M75	L2x2x4	.027	0	16	.003	0	z	23	29422...	30585.6	.691	1.577	2...	H2-1
11	M76	L2x2x4	.022	0	16	.003	0	z	23	29422...	30585.6	.691	1.577	2...	H2-1
12	M81	L2x2x4	.022	0	24	.003	0	z	24	29422...	30585.6	.691	1.577	2...	H2-1
13	M82	L2x2x4	.027	0	24	.003	0	z	23	29422...	30585.6	.691	1.577	2...	H2-1
14	M83	L2x2x4	.027	0	24	.003	0	z	23	29422...	30585.6	.691	1.577	2...	H2-1
15	M84	L2x2x4	.022	0	24	.003	0	z	23	29422...	30585.6	.691	1.577	2...	H2-1
16	M89	L2x2x4	.022	0	20	.003	0	z	19	29422...	30585.6	.691	1.577	2...	H2-1
17	M90	L2x2x4	.027	0	20	.003	0	z	19	29422...	30585.6	.691	1.577	2...	H2-1
18	M91	L2x2x4	.027	0	20	.003	0	z	19	29422...	30585.6	.691	1.577	2...	H2-1
19	M92	L2x2x4	.022	0	20	.003	0	z	19	29422...	30585.6	.691	1.577	2...	H2-1
20	MP4A	PIPE 2.0	.221	3.984	7	.033	4.073		11	13511...	32130	1.872	1.872	1...	H1-1b
21	MP1A	PIPE 2.0	.183	3.984	7	.042	3.984		8	13511...	32130	1.872	1.872	2...	H1-1b
22	MP3A	PIPE 2.0	.106	3.125	1	.016	3.125		11	20866...	32130	1.872	1.872	1...	H1-1b
23	MP2A	PIPE 2.0	.470	3.125	1	.126	3.188		10	20866...	32130	1.872	1.872	1	H1-1b
24	MP5A	PIPE 2.0	.040	1.5	7	.015	1.5		7	30625...	32130	1.872	1.872	1...	H1-1b
25	MP4C	PIPE 2.0	.183	3.984	2	.041	4.073		5	13511...	32130	1.872	1.872	2...	H1-1b
26	MP1C	PIPE 2.0	.183	3.984	2	.042	3.984		3	13511...	32130	1.872	1.872	2...	H1-1b
27	MP3C	PIPE 2.0	.106	3.125	9	.016	3.125		1	20866...	32130	1.872	1.872	1...	H1-1b
28	MP2C	PIPE 2.0	.410	3.125	2	.125	3.188		5	20866...	32130	1.872	1.872	1...	H1-1b
29	MP4B	PIPE 2.0	.183	3.984	10	.041	4.073		1	13511...	32130	1.872	1.872	2...	H1-1b
30	MP1B	PIPE 2.0	.183	3.984	10	.042	3.984		11	13511...	32130	1.872	1.872	2...	H1-1b
31	MP3B	PIPE 2.0	.106	3.125	5	.016	3.125		9	20866...	32130	1.872	1.872	1...	H1-1b
32	MP2B	PIPE 2.0	.410	3.125	10	.125	3.188		1	20866...	32130	1.872	1.872	1...	H1-1b
33	MP5B	PIPE 2.0	.040	1.5	1	.015	1.5		1	30625...	32130	1.872	1.872	1	H1-1b
34	M97	LL3x3x3x0	.098	3.905	13	.002	3.905	z	4	50632...	70632	4.823	3.751	1	H1-1b*
35	M98	LL3x3x3x0	.101	3.905	21	.003	0	z	12	50632...	70632	4.823	3.751	1	H1-1b*
36	M99	LL3x3x3x0	.088	3.905	17	.002	3.905	z	2	50632...	70632	4.823	3.751	1	H1-1b*



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N14	30
N26	150
N3	270

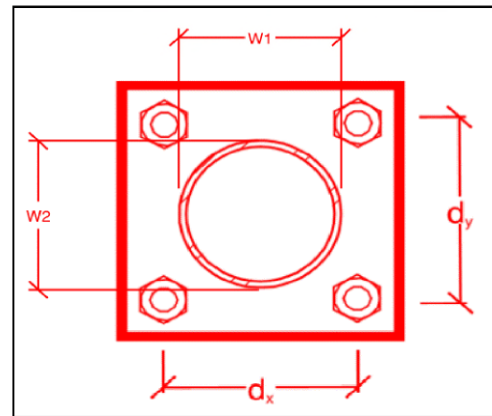


TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:
 Bolt Quantity per Reaction:
 d_x (in) (Delta X of typ. bolt config. sketch) :
 d_y (in) (Delta Y of typ. bolt config. sketch) :
 Bolt Type:
 Bolt Diameter (in):
 Required Tensile Strength (kips):
 Required Shear Strength (kips):
 Tensile Strength / bolt (kips):
 Shear Strength / bolt (kips):
 Tensile Capacity Overall:
 Shear Capacity Overall:

yes
4
3
8
A307
0.75
11.6
3.8
14.4
8.6
20.2%*
10.8%



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:
 Plate Width (in):
 Plate Height (in):
 W_1 (in):
 W_2 (in):
 F_y (ksi, plate):
 t_{plate} (in):
 Weld Size (1/16 in):
 $\Phi * R_n$ (kip/in):
 Required Weld Strength (kip/in):
 Plate Bending Capacity:
 Weld Capacity:

Rect
6
10
4
4
36
0.5
3
4.18
0.87
48.6%
20.8%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in) :	5.9
$\Phi * M_{n_{xx}}$ (kip-in) :	12.2
$M_{u_{yy}}$ (kip-in) :	0.0
$\Phi * M_{n_{yy}}$ (kip-in) :	20.3



Client:	Verizon Wireless	Date:	2/19/2021
Site Name:	Bethel CT		
Project No.	20777354A		
Title:	Antenna Mount Fix	Page:	2

Version 3.1

II. Tieback Evaluation

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

Photo Requirements:

- Base and “During Installation Photos”
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
 - Overall tower structure before and after installation of the modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- Photos taken at Mount Elevation
 - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
 - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
 - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
 - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
 - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
 - If the drawings are as specified on the drawings
 - The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized
 - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

□ The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

□ The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____
Name _____
Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____
Name _____
Signature _____

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


















Issue:

Install safety climb cable guide (Site Pro 1 Part# 120123/317). Proposed OVP will be installed

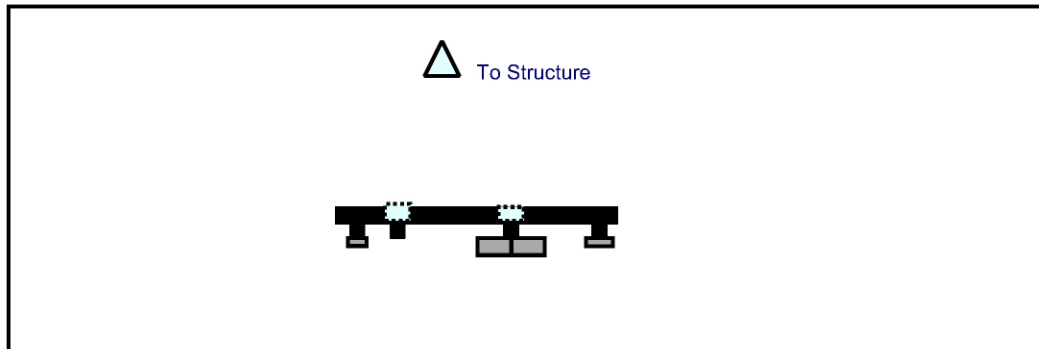
existing OVP pipe.

Response:

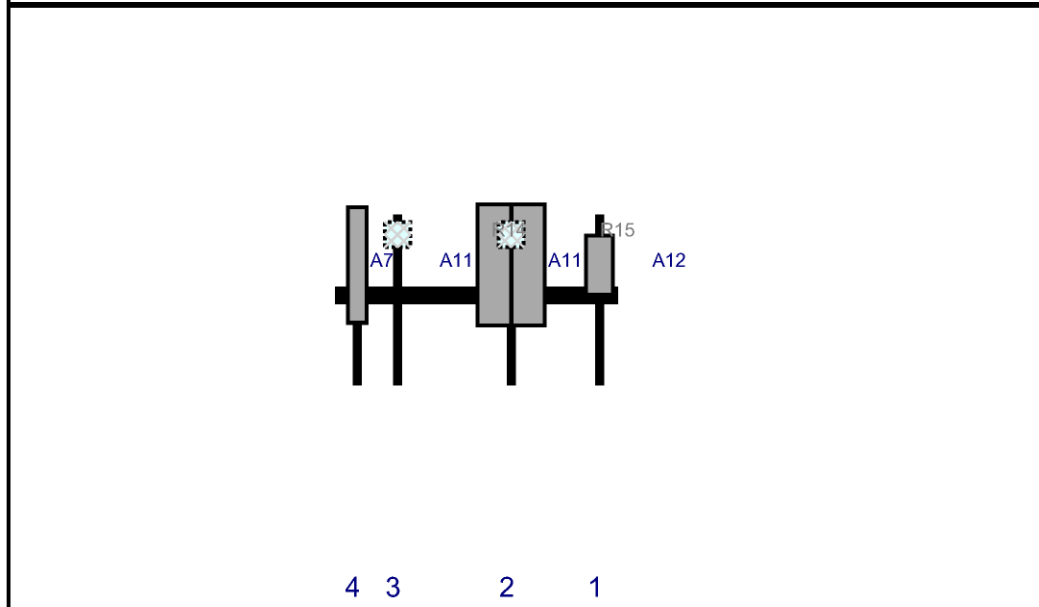
Schedule A – Photo & Document File Structure

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

Plan View

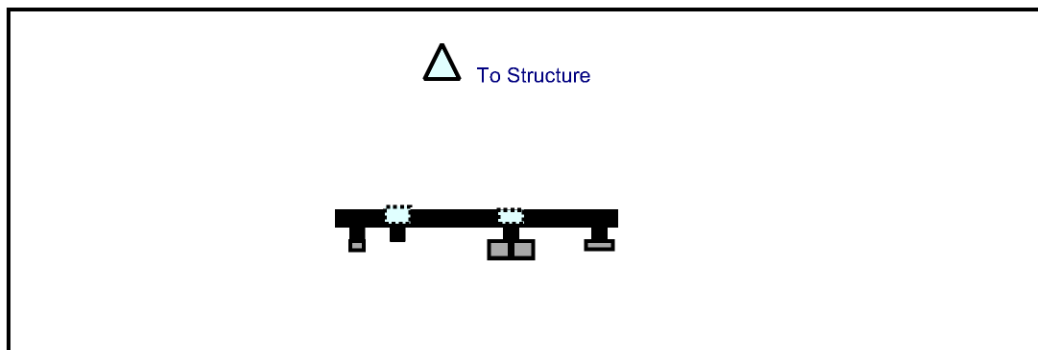


Front View
Looking at Structure

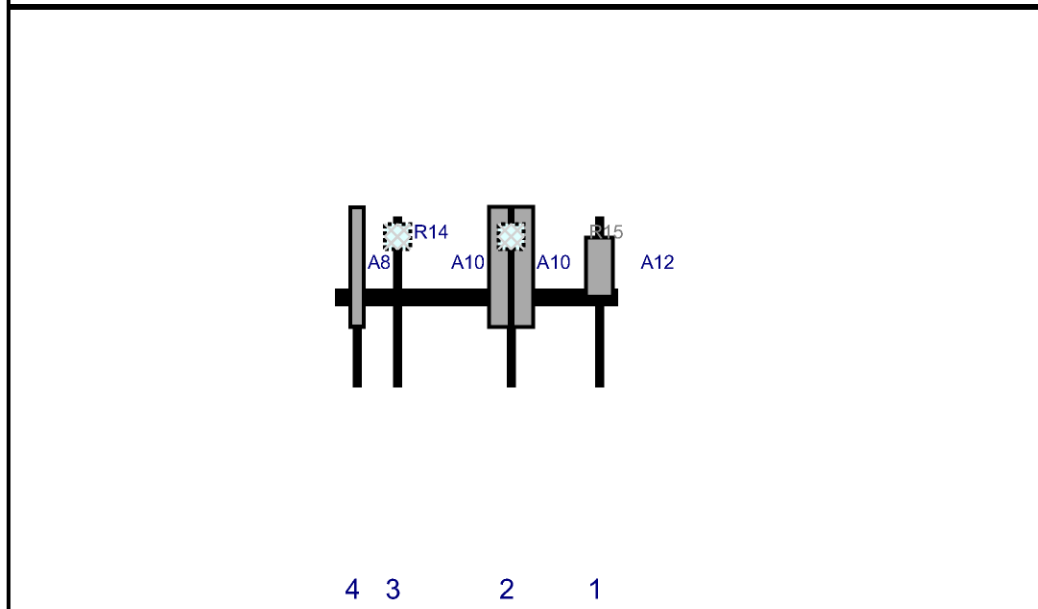


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A12	Licensed Sub 6 Antenna	35.1	16.1	157	1	a	Front	30	0	Added	
A11	MX06FRO640-02	72	19.8	104.5	2	a	Front	30	-10	Added	
A11	MX06FRO640-02	72	19.8	104.5	2	b	Front	30	10	Added	
R15	B5/B13 RRH-BR04C	15	15	104.5	2	a	Behind	12	0	Added	
R14	B2/B66A RRH-BR049	15	15	37	3	a	Behind	12	0	Added	
A7	BXA-80063-6BF-EDIN-2	68.6	11.2	13	4	a	Front	30	0	Retained	11/17/2020

Plan View

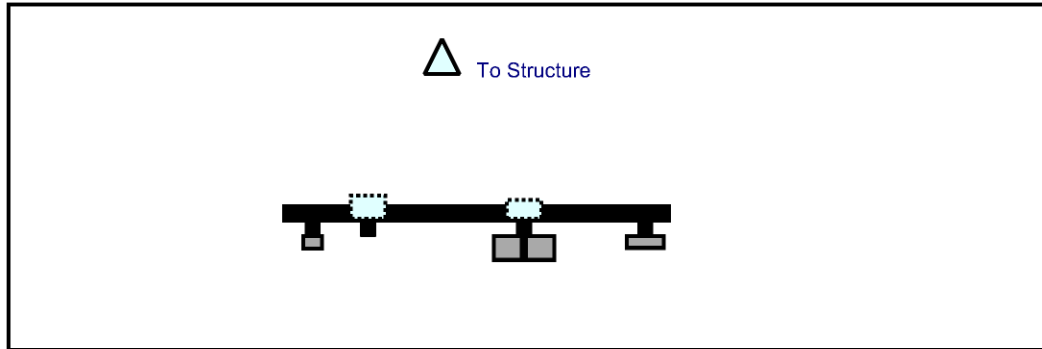


Front View
 Looking at Structure

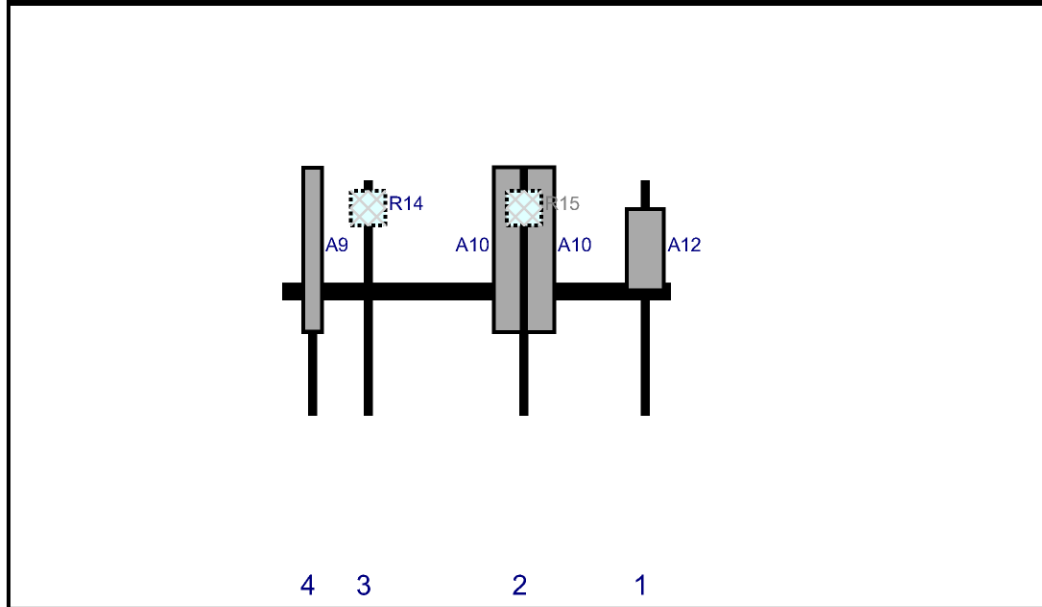


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A12	Licensed Sub 6 Antenna	35.1	16.1	157	1	a	Front	30	0	Added	
A10	MX06FIT665-02	71.3	12.2	104.5	2	a	Front	30	-7	Added	
A10	MX06FIT665-02	71.3	12.2	104.5	2	b	Front	30	7	Added	
R15	B5/B13 RRH-BR04C	15	15	104.5	2	a	Behind	12	0	Added	
R14	B2/B66A RRH-BR049	15	15	37	3	a	Behind	12	0	Added	
A8	BXA-80080-6CF-EDIN-0	71	8	13	4	a	Front	30	0	Retained	11/17/2020

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
A12	Licensed Sub 6 Antenna	35.1	16.1	157	1	a	Front	30	0	Added	
A10	MX06FIT665-02	71.3	12.2	104.5	2	a	Front	30	-7	Added	
A10	MX06FIT665-02	71.3	12.2	104.5	2	b	Front	30	7	Added	
R15	B5/B13 RRH-BR04C	15	15	104.5	2	a	Behind	12	0	Added	
R14	B2/B66A RRH-BR049	15	15	37	3	a	Behind	12	0	Added	
A9	BXA-80080-6CF-EDIN-2	71	8	13	4	a	Front	30	0	Retained	11/17/2020

<u>Subject</u>		TIA-222-H Usage
<u>Site Information</u>	<i>Site ID:</i>	468263-VZW / Bethel CT
	<i>Site Name:</i>	Bethel CT
	<i>Carrier Name:</i>	Verizon Wireless
	<i>Address:</i>	38 Spring Hill Road Bethel, Connecticut 06801 Fairfield County
	<i>Latitude:</i>	41.362067°
	<i>Longitude:</i>	-73.395917°
<u>Structure Information</u>	<i>Tower Type:</i>	130-Ft Monopole
	<i>Mount Type:</i>	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. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

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

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

Sincerely,



Dejian Xu, PE
Technical Specialist

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. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING 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 ANS/ITIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANS/ITIA-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 OTHERS STRUCTURAL MEANS AS NECESSARY TO INSURE ALL STRUCTURES ARE FULLY COMPLETED AND SECURE TO ALL STRUCTURAL SYSTEMS.
9. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
10. 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, ANS/ITIA-322.
11. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOTEXTILE BRACING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
12. 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.
13. DO NOT SCALE DRAWINGS.
14. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
15. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS INCLUDING BUT NOT LIMITED TO WELDS, BOLTS, AND BRACING, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.

DESIGN LOADS

- WIND LOADS**
- a. BASIC WIND SPEED (3 SECOND GUST), $V = 116$ MPH
 - b. EXPOSURE CATEGORY B
 - c. TOPOGRAPHIC CATEGORY 1
 - d. MEAN BASE ELEVATION (AMS), $Z = 782.79'$
- ICE LOADS**
- a. ICE WIND SPEED (3 SECOND GUST), $V = 50$ MPH
 - b. ICE THICKNESS = 1.000 IN
- SEISMIC LOADS**
- a. SEISMIC DESIGN CATEGORY B
 - b. SHORT TERM MCR GROUND MOTION, $S_s = 0.22$
 - c. LONG TERM MCR GROUND MOTION, $S_L = 0.56$

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)
 - PIPE ASTM A53 (GR 35)
 - BOLTS ASTM A325
 - WELDS ASME SECTION II, PART D
 - LOCK WASHERS LOCKING 3 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 ANY SUBSTITUTIONS 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 GDULINK@MASERCONSULTING.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 DIP 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. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.3 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE ENGINEER WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT SPACING AND SPACING.
11. 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 JOINT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE JOINT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT DIP GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.



PROJECT COUNSEL
 ALL UTILITIES AND ADEQUACY OF EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ERECTION OF THE STRUCTURE.
 Call Maser Consulting
 810
 100 STATE STREET, SUITE 200, WETHERSFIELD, CT 06192
 WWW.MASERCONSULTING.COM

NO.	AS SHOWN	REVISION	DATE
1			02/19/2025
2			
3			
4			
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10			



IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

SITE NAME:
 BETHEL CT
 468263
 38 SPRING HILL ROAD
 BETHEL, CT 06756
 FAIRFIELD COUNTY



MODIFICATION NOTES

DATE: 02/19/2025

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
X	PRE-CONSTRUCTION
X	MI CHECKLIST DRAWING
X	FOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
	CONSTRUCTION
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
	POST-CONSTRUCTION
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZV PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT
 NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS COMPLETED AS SHOWN ON THE DRAWINGS AND AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN. THE MI INSPECTOR TAKE RESPONSIBILITY FOR THE DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) CONTACT THE MI INSPECTOR AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS
- THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS
- THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED
- THE MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE INSPECTIONS
- COMMENCE WITH ON-SITE MI ALLOW THE FOUNDATION AND MI INSPECTIONS TO COMPLETION
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTION IS ON-SITE

CORRECTION OF FAILING MIs

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI (FAILED MI), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REBID/REPLAN.

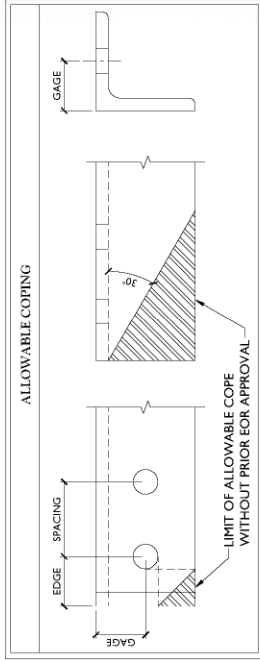
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

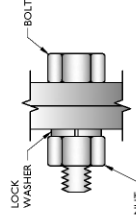
- PRE-CONSTRUCTION GENERAL SITE CONDITION PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/REBID/REPLAN
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- FOUNDATION MODIFICATION
- BOLT INSTALLATION
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
- FINAL IN-FIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE



BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 1 1/16	7/8	1 1/2
5/8	1 1/16	1 1/16 x 7/8	1 1/8	1 7/8
3/4	1 3/16	1 3/16 x 1 1/4	1 1/4	2 1/4
7/8	1 5/16	1 5/16 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



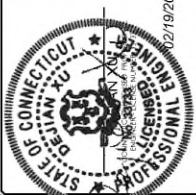
TYP. BOLT ASSEMBLY

NOTES:

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AS-C MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND DIMENSIONS OF PROPOSED MEMBERS ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AS-C MINIMUM REQUIREMENTS.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DETECTED IN THE DRAWINGS.
- MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



DATE	AS SHOWN	2022/12/15/24
BY	DESIGNED	
BY	CHECKED	
BY	APPROVED	
BY	DATE	
BY	DATE	
BY	DATE	
BY	DATE	
BY	DATE	
BY	DATE	



IT IS THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER TO ACT UNDER THE DIRECTION OF THE LICENSEE TO WHOM THE DIRECTION IS APPLICABLE.

SITE NAME:
 BETHEL CT
 468263
 38 SPRING HILL ROAD
 FAIRFIELD COUNTY



MODIFICATION NOTES

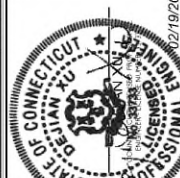


PROJECT COURTESY
ALL UTILITIES AND OWNERS OF
UTILITIES ARE TO BE LOCATED AND
MARKED PRIOR TO ANY EXCAVATION
OR DRILLING OPERATIONS AND SHALL
BE MAINTAINED THROUGHOUT THE
ENTIRE PROJECT.

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811

FOR STATE PROJECTS, VISIT: WWW.811.CT.GOV

NO.	DATE	DESCRIPTION	BY	CHK.



I, JIAN XU, BEING A LICENSED PROFESSIONAL
ENGINEER, HEREBY CERTIFY THAT THE
DESIGN AND CONSTRUCTION OF THIS
PROJECT SHALL BE IN ACCORDANCE WITH
THE REQUIREMENTS OF THE CONNECTICUT
STATE BOARD OF PROFESSIONAL
ENGINEERS.

SITE NAME:

BETHEL CT
468263
38 SPRING HILL ROAD
BETHEL CT
FAIRFIELD COUNTY

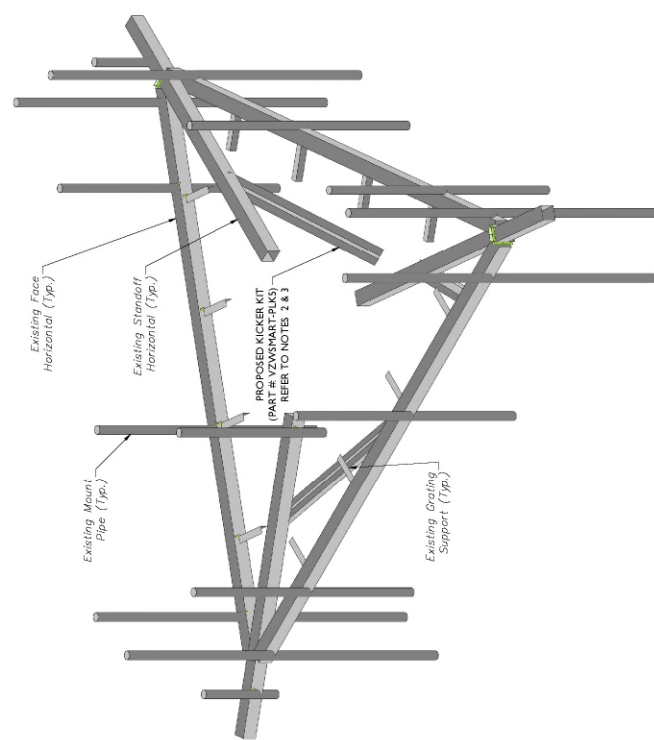


PROJECT NO.:

MODIFICATION DETAILS

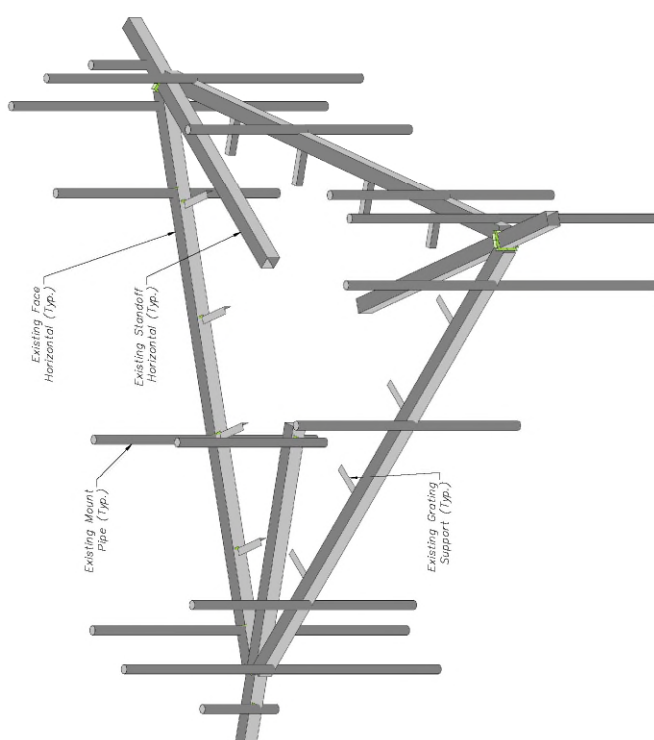
DATE:

S-4



2 PROPOSED PLATFORM ISOMETRIC VIEW
SCALE: N.T.S.

- MODIFICATION NOTES:
1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.C.
 2. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
 3. CONTRACTOR TO VERIFY LENGTH IN FIELD, TRIM AS NEEDED.



1 EXISTING PLATFORM ISOMETRIC VIEW
SCALE: N.T.S.

- STRUCTURAL NOTES:
1. PER THE MOUNT MAPPING COMPLETED BY TOWER ENGINEERING PROFESSIONALS, INC. ON 1/17/2020, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (93'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
 2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND OCCUPANT DESIGN 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.



PROJECT COURTESY
AS A RESULT OF THE QUALITY OF OUR
SERVICES AND THE SUPPORT OF OUR
CLIENTS, WE ARE PLEASED TO
PREPARE TO SUBMIT THIS PROJECT
TO THE STATE OF CONNECTICUT FOR
THE 811 PROGRAM.

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www.811.com

NO.	DATE	DESCRIPTION	BY	CHKD
1	02/19/2025	ISSUED FOR PERMIT		



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE SPECIFIED.

SITE NAME:
BETHEL CT
468263
38 SPRING HILL ROAD
BETHEL CT 06710
FAIRFIELD COUNTY

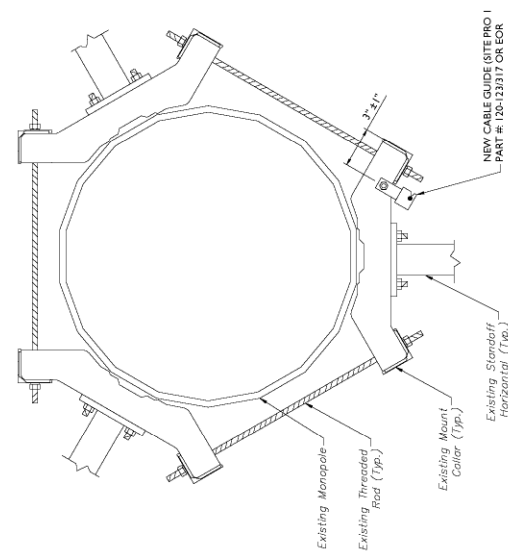


PROJECT:
MODIFICATION DETAILS

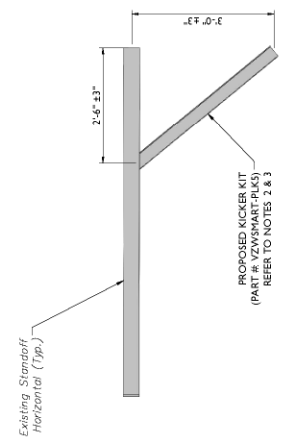
DATE: 02/19/2025

S-5

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW



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

MODIFICATION NOTES:

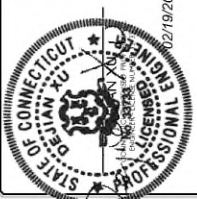
1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMAR-PLK7).
3. CONTRACTOR TO VERIFY LENGTH IN FIELD, TRIM AS NEEDED.



PROJECT OBJECTIVE
 ALL UTILITIES AND QUALITY OF WORK SHALL BE VERIFIED AND DOCUMENTED PRIOR TO ANY CONSTRUCTION. PREPARE TO VERIFY AND MARK UTILITIES PRIOR TO ANY CONSTRUCTION.

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 811
 1-800-4-A-DAWG
 www.811.com

NO.	DATE	DESCRIPTION	BY	CHK.	DATE



I, **BETHEL XU**, AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF CONNECTICUT. I AM ACTING UNDER THE SUPERVISION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, **DAVID J. MURPHY**, LICENSE NO. 20277554.

SITE NAME:
 BETHEL CT
 468263
 38 SPRING HILL ROAD
 BETHEL CT 06716
 FAIRFIELD COUNTY



MOUNT PHOTOS

S-6



MOUNT PHOTO 2



MOUNT PHOTO 4



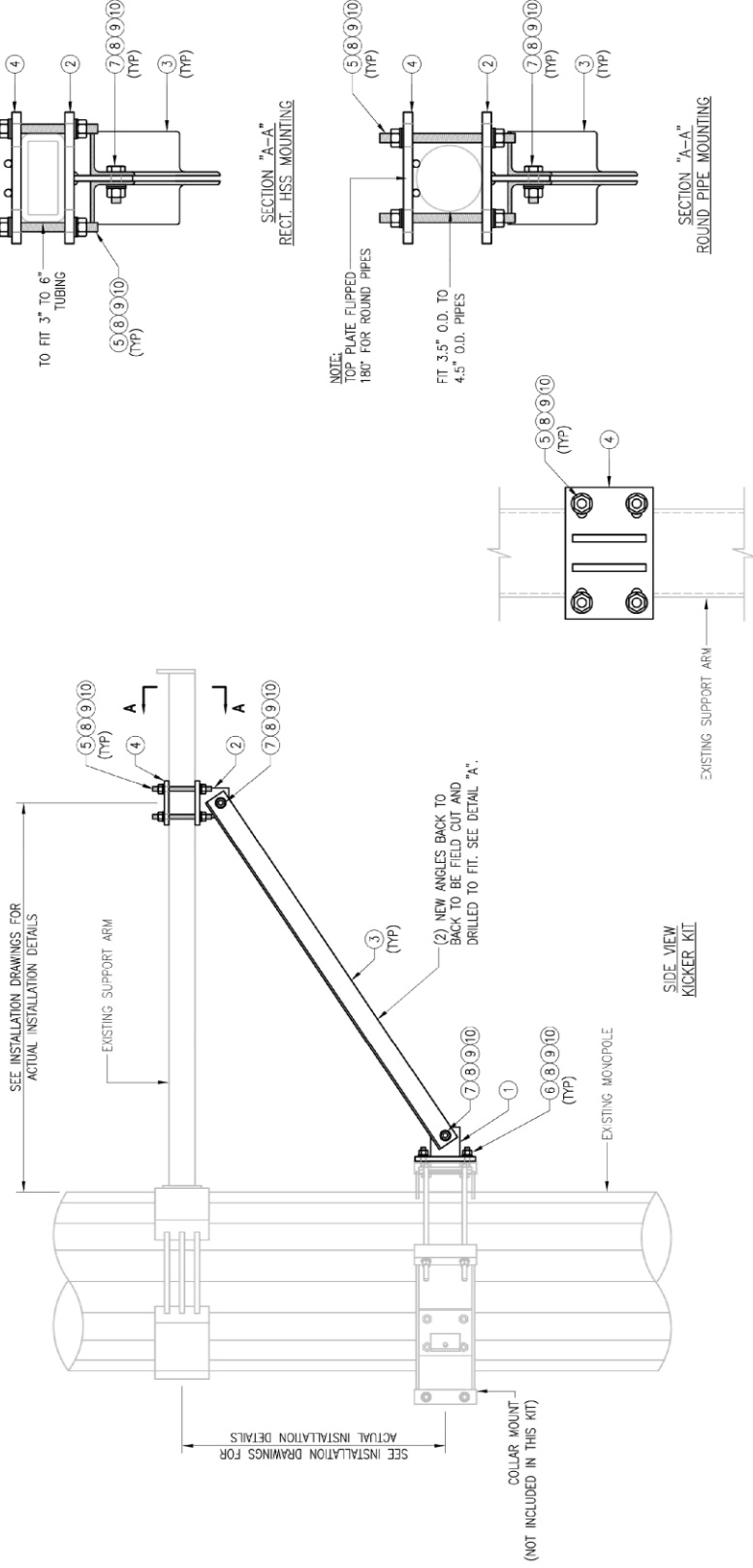
MOUNT PHOTO 1



MOUNT PHOTO 3

REV	DESCRIPTION	CHECKED BY: HMA/AN
1	FIRST ISSUE	BY DATE
		MM 05/08/20
△		
△		
△		
△		
SHEET TITLE:		
VZWSMART-PLK5 KICKER KIT		
SHEET NUMBER:		REV #
VZWSMART-PLK5		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.

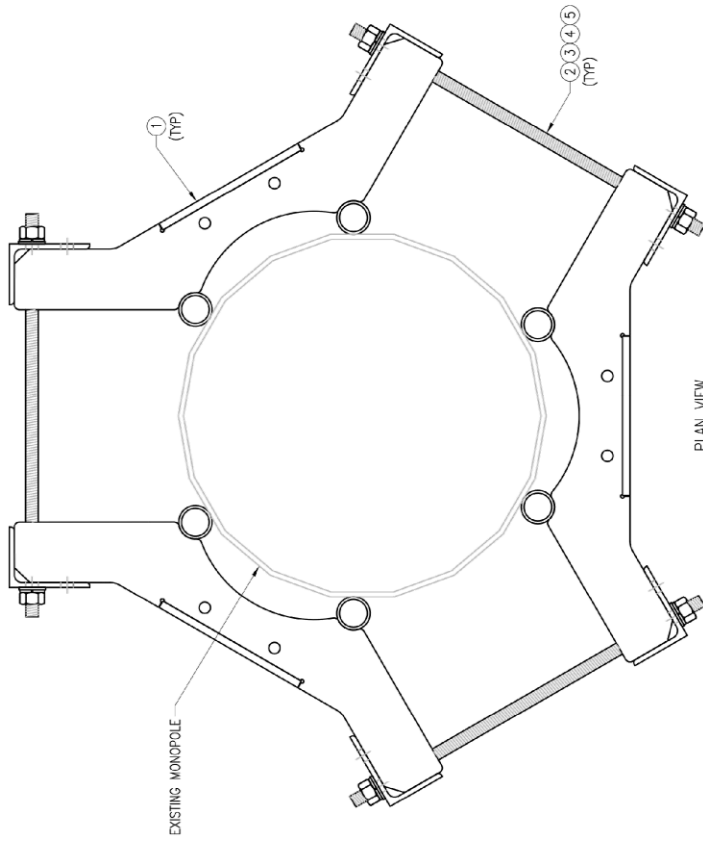


ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXX	BRACKET WELDMENT A36	PLK5-F3	43.8
2	3	BRKW-XXX	BRACKET WELDMENT A36	PLK5-F2	35.7
3	6	L31875-8	L 3" X 3" X 3/16" X 8'-0" A36	PLK5-F4	182.9
4	3	PL-K	PL 5/8" X 6" X 9" A36	PLK5-F1	29.0
5	2	---	T-HEADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	---	---
6	6	---	BOLT 5/8" X 2" A325	---	---
7	2	---	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

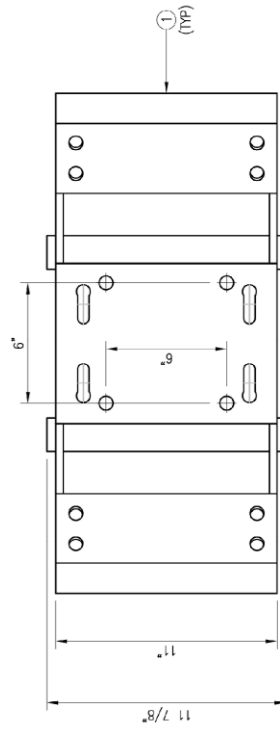
NOTES:
 1. ALL HOLES ARE 11/16" DIA. UNO
 2. HOT-DIPPED GALVANIZED PER ASTM A123.
 3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

DRAWN BY: BT	CHECKED BY: HMA/KW
REV. DESCRIPTION	BY DATE
1 FIRST ISSUE	BT 06/11/20
△	
△	
△	
△	

SHEET TITLE:	VZWSMART-PLK7 MONOPOLE COLLAR MOUNT ASSEMBLY
SHEET NUMBER:	REV # 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



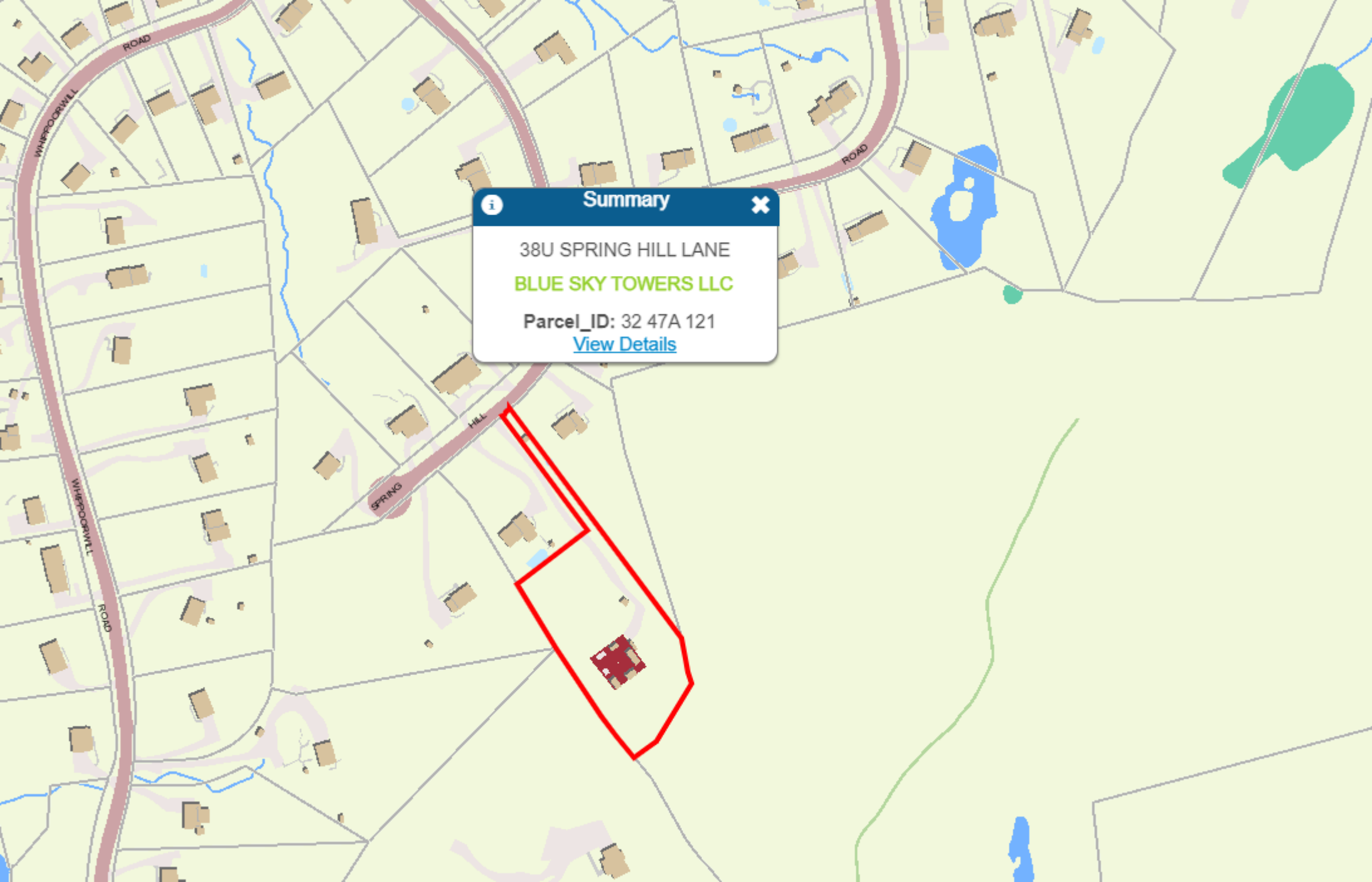
FRONT VIEW

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	1.47	
2	6		THREADED ROD 5/8" X 4'-0" A193-B7			
3	12	FW-625	5/8" HDG USS FLAT WASHER		1	
4	12	LW-625	5/8" HDG LOCK WASHER		0	
5	12	NUT-625	5/8" HDG HEX NUT		1	
					GALVANIZED WT	150

- NOTES:
1. FIT 12" TO 45" DIA MONOPOLE.
2. HOT-DIPPED GALVANIZED PER ASTM A123.

ATTACHMENT 5



Summary ✕

38U SPRING HILL LANE
BLUE SKY TOWERS LLC
Parcel_ID: 32 47A 121
[View Details](#)



BLUE SKY TOWERS LLC

57 EAST WASHINGTON STREET
CHAGRIN FALLS , OH

Parcel ID: 32 47A 121

Lot Size (AC): 1.625

Parcel Value:

Links

Abutters

Parcel Details

Property Map

Photo

Google Map

Parcel_ID 32 47A 121

Feat_type PARCEL

Map 32

Block 47A

Lot 121

Address 38U SPRING HILL LANE

Size 1.625

Photo <http://bethel.univers-clt.com/PICTURE/00802901.jpg>

Account Number R06064

Owner BLUE SKY TOWERS LLC

ATTACHMENT 6



BETHEL
Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here Postmark with Date of Receipt.
	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.	Matthew Knickerbocker, Frist Selectman Town of Bethel Clifford J. Hurgin Municipal Center 1 School Street Bethel, CT 06801				
2.	Beth Cavagna, Director/Town Planner Town of Bethel Clifford J. Hurgin Municipal Center 1 School Street Bethel, CT 06801				
3.	Heather Douglas Wilkins Territory Manager Business Development Northeast (New England/NY) American Tower Corporation 10 Presidential Way Woburn, MA 01801				
4.					
5.					
6.					