

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

January 26, 2022

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
175 South Main Street, Marlborough, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and associated equipment on the ground near the base of the tower. The tower and Cellco’s use of the tower were approved by the Siting Council (“Council”) in March of 2004 (Docket No. 256). A copy of the Council’s Docket No. 256 Decision and Order is included in [Attachment 1](#).

Cellco now intends to modify its facility by removing nine (9) antennas and installing (3) new Samsung MT6407-77A antennas, three (3) new NHH-65B-R2B antennas, and three (3) new NHHSS-65B-R2BT4 antennas on Cellco’s existing antenna platform. Cellco also intends remove three (3) existing remote radio heads (“RRHs”) and install nine (9) new RRHs behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and the specifications for Cellco’s new antennas and RRHs are included in [Attachment 2](#).

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

Melanie A. Bachman, Esq.
January 26, 2022
Page 2

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna 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 mount assemblies, 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.
January 26, 2022
Page 3

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:

Greg Lowrey, Marlborough First Selectman
Peter Hughes, Director of Planning and Development
Fallow Crossings LLC, Property Owners
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 256 - Sprint Spectrum, L.P. d/b/a Sprint PCS and Global Telecommunications application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at 175 South Main Street, Marlborough, Connecticut.	} } } }	Connecticut Siting Council March 4, 2004
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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 wireless 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 Global Telecommunications for the construction, maintenance and operation of a wireless telecommunications facility at 175 South Main Street, Marlborough, 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 Sprint Spectrum, L.P, AT&T Wireless PCS LLC, Cellco Partnership and other entities, both public and private, but such tower shall not exceed a height of 170 feet above ground level, including appurtenances.
2. The tower site shall be relocated approximately 60 feet to the north.
3. Panel antennas shall be installed on the monopole using a flush or T-arm mounting configuration.
4. 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 submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a detailed site development plan that depicts the location of the access road, compound, tower, utility line, erosion and sedimentation control features, and landscaping;
 - b) specifications for the tower, tower foundation, antennas, equipment building, and security fence; and
 - c) 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.
5. The Certificate Holder, prior to the commencement of operation, shall provide the Council worst-case modeling of electromagnetic radio frequency power densities 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 provide a recalculated report of electromagnetic radio frequency power density if and

when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

6. 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.
7. 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. 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.
8. If the facility 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.
9. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antenna becomes obsolete and ceases to function.
10. 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.

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 and the Rivereast News Bulletin.

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

The parties and intervenors to this proceeding are:

Applicant

Sprint Spectrum, L.P. d/b/a Sprint PCS and Global Telecommunications

Its Representative

Thomas J. Regan, Esquire
Brown Rudnick Berlack Israels LLP
CityPlace I, 38th Floor
185 Asylum Street
Hartford, CT 06103-3402

Intervenor

AT&T Wireless PCS, LLC d/b/a AT&T Wireless

Its Representative

Christopher B. Fisher, Esq.
Cuddy & Feder LLP
90 Maple Avenue
White Plains, NY 10601

Intervenor

Cellco Partnership d/b/a Verison Wireless

Its Representative

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

ATTACHMENT 2



SITE NAME: MARLBOROUGH_EAST_CT

175 SOUTH MAIN STREET
MARLBOROUGH, CT 06447
TOWN OF MARLBOROUGH
HARTFORD COUNTY



Know what's below.
Call before you dig.



NB+C ENGINEERING SERVICES, LLC.
100 HULLS LANE DRIVE
SUITE 101
CHELSEA, MA 01824
(978) 856-8000



118 FLANDERS ROAD
FLOOR 3
WESTBOROUGH, MA 01581

MARLBOROUGH_EAST_CT
175 SOUTH MAIN STREET
MARLBOROUGH, CT 06447
TOWN OF MARLBOROUGH
HARTFORD COUNTY

REVISIONS

REV	DATE	DESCRIPTION	BY
0	01/11/22	FINAL CD's	JC



DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

TITLE SHEET

T-1

SITE INFORMATION

SITE ADDRESS: 175 SOUTH MAIN STREET
MARLBOROUGH, CT 06447

LATITUDE (NAD 83): 41°-36'-57.40"N (41.615944°)
LONGITUDE (NAD 83): 72°-26'-11.20"W (-72.436444°)

JURISDICTION: TOWN OF MARLBOROUGH
HARTFORD COUNTY

PARCEL NUMBER: 9-28A-28T

PROPERTY OWNER: FALLOW CROSSING LLC
8051 CONGRESS AVENUE
BOCA RATON, FL 33487

TOWER OWNER: SBA COMMUNICATIONS CORPORATION
8051 CONGRESS AVENUE
BOCA RATON, FL 33487-1307

VZW SITE ID: 674963

STRUCTURE TYPE: MONOPOLE

CONSTRUCTION TYPE: II B

USE GROUP: U

VICINITY MAP



DRAWING INDEX

T-1	TITLE SHEET
C-1	COMPOUND PLAN
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A-2	PROPOSED ANTENNA PLAN & SCHEDULE
A-3	ANTENNA DETAILS & PLUMBING DIAGRAM
A-4	EQUIPMENT SPECIFICATIONS & DETAILS
A-5	SCOPE OF WORK
G-1	GROUNDING DETAILS & NOTES
GN-1	PMI REQUIREMENTS
	MODIFICATION DRAWINGS ATTACHED

DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"X34". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

APPROVAL BLOCK

	DATE	APPROVED	APPROVED AS NOTED	DISAPPROVED / REVISE
CONSTRUCTION MANAGER	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SITE ACQUISITION	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF ENGINEER	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LESSOR/LESSOR REP	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SCOPE OF WORK

PROJECT CONSISTS OF **INSTALLING:** (9) PROPOSED ANTENNAS, (3) PROPOSED DUAL ANTENNA MOUNTS, (12) PROPOSED RRHs, (1) PROPOSED VOLTAGE PROTECTION DEVICE (VDP-12), AND (1) PROPOSED 12x24 HYBRID CABLE TO AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.

PROJECT CONSISTS OF **REMOVING:** (9) EXISTING ANTENNAS, (6) TMAS, (3) EXISTING RRHs, (1) EXISTING VOLTAGE PROTECTION DEVICE, AND (1) EXISTING HYBRID CABLE FROM AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2018 CT STATE BUILDING CODE / (2015 IBC W/ CT AMENDMENTS)
- 2018 CT STATE BUILDING CODE / (2015 IMC W/ CT AMENDMENTS)
- 2018 CT STATE BUILDING CODE / (2017 NEC W/ CT AMENDMENTS)
- NFPA 1-2015 EDITION
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSI/TIA-222-G
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSI/T 311

CONTRACTOR PMI REQUIREMENTS

PMI DOCUMENTATION: [HTTPS://PMI.VZWSMART.COM](https://PMI.VZWSMART.COM)

PROJECT NUMBER: 100765

VERIZON LOCATION CODE (PSLC): 467769

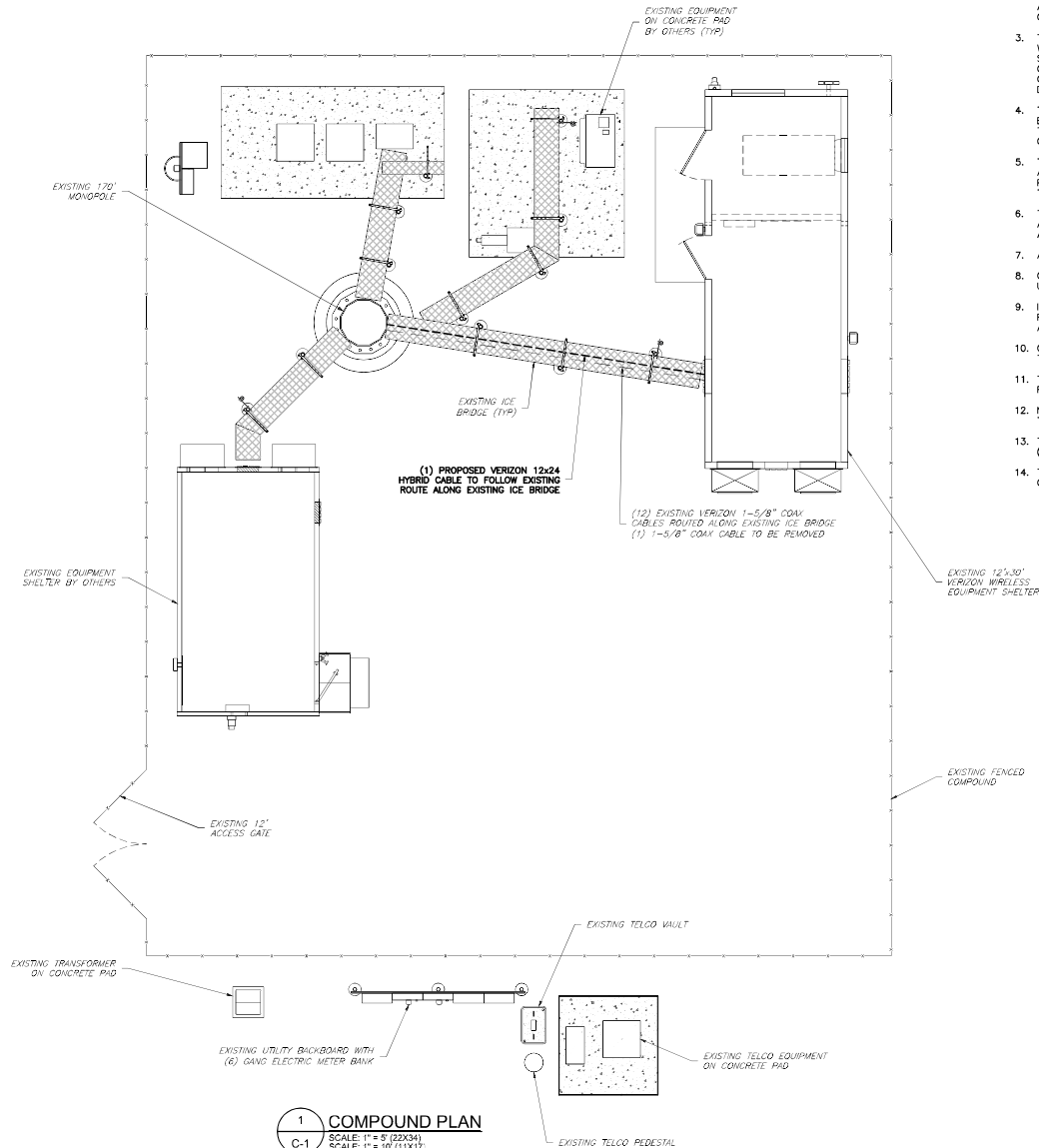
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED

YES

VERIZON APPROVED VENDORS

* REFER TO MOUNT MODIFICATION DRAWINGS.



1 **COMPOUND PLAN**
 C-1
 SCALE: 1" = 5' (22X34)
 SCALE: 1" = 10' (11X17)

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
8. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
9. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
10. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
11. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
12. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
13. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
14. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.



NB+C ENGINEERING SERVICES, LLC.
 100 WINDY HILL DRIVE
 SUITE 101
 CHELSEA, MA 01938
 (978) 836-3000



118 FLANDERS ROAD
 FLOOR 3
 WESTBOROUGH, MA 01581

MARLBOROUGH_EAST_CT
 175 SOUTH MAIN STREET
 MARLBOROUGH, CT 06447
 TOWN OF MARLBOROUGH
 HARTFORD COUNTY

REVISIONS

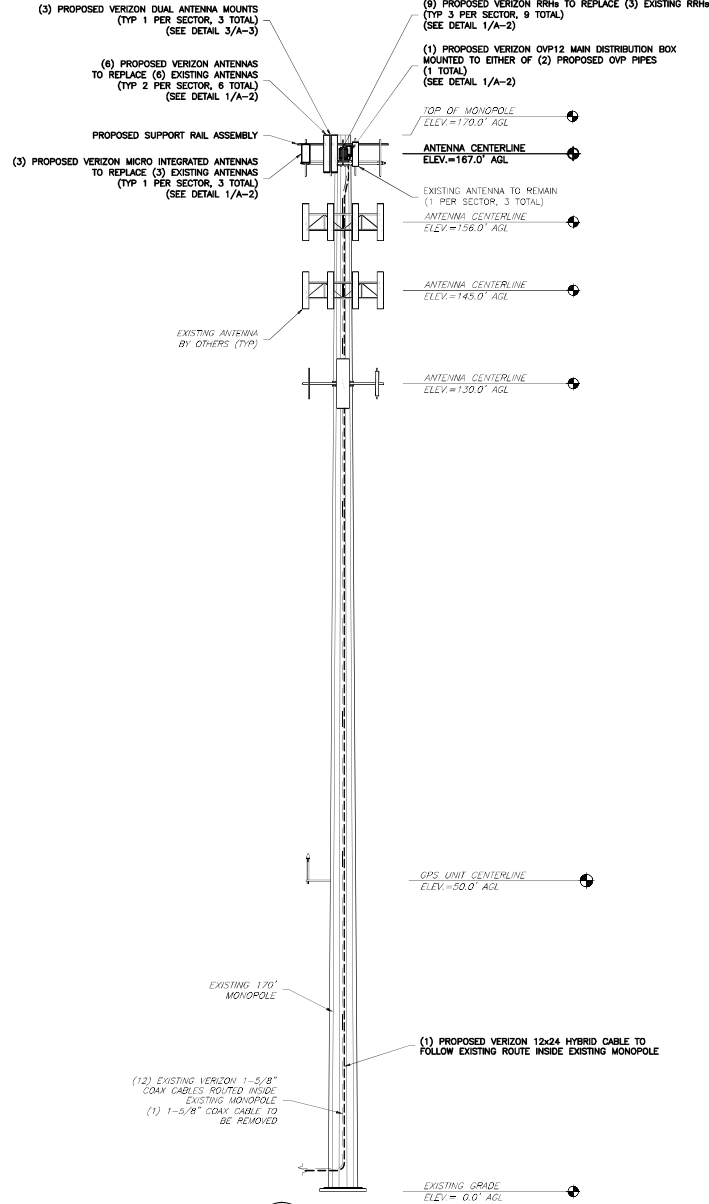
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 CT PROFESSIONAL ENGINEER LIC. #34055

COMPOUND PLAN

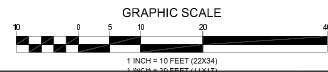
C-1



NOTE:
 POST-MODIFICATION INSPECTION (PMI) REQUIRED ON ALL SITES. REFER TO THE MOUNT ANALYSIS PREPARED BY MASER CONSULTING CONNECTICUT DATED 10/07/2021 FOR ADDITIONAL DETAILS.

NOTE:
 MOUNT MODIFICATIONS ARE REQUIRED BEFORE ANY INSTALL CAN OCCUR. PLEASE REFER TO THE MOUNT MODIFICATION DRAWINGS PROVIDED BY MASER CONSULTING CONNECTICUT DATED, 09/16/2021.

1 ELEVATION
 C-2
 SCALE: 1" = 10' (22X34)
 SCALE: 1" = 20' (11X17)



ENGINEER

TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
 100 HULLS LANE
 SUITE 101
 CHELSEA, MASSACHUSETTS
 02156-5008

APPLICANT

118 FLANDERS ROAD
 FLOOR 3
 WESTBOROUGH, MA 01581

SITE INFORMATION

MARLBOROUGH_EAST_CT
 175 SOUTH MAIN STREET
 MARLBOROUGH, CT 06447
 TOWN OF MARLBOROUGH
 HARTFORD COUNTY

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0	09/11/22	FINAL CDS	JC

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

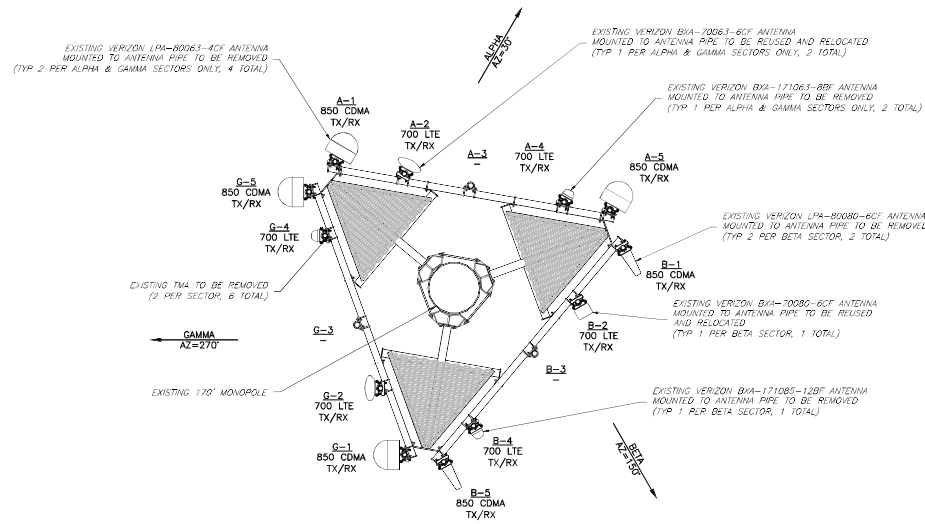
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SHEET TITLE

ELEVATION

SHEET NUMBER

C-2



1
A-1
NTS
EXISTING ANTENNA ORIENTATION PLAN
APPROX TRUE NORTH

EXISTING ANTENNA & RRH SCHEDULE										
ANTENNA POSITION	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER	AZIMUTH	DOWN TILT		RRH QUANTITY & MODEL	TECHNOLOGY	CABLE SIZE, LENGTH & QUANTITY	
					MECH	ELEC				
A-1	ANTEL	LPA-80063-4CF	167.00'	30°	0°	0°	-	-	(4) 1-5/8" Ø CDAX (220'±)	
A-2	AMPHENOL	BXA-70063-6CF	167.00'	30°	0°	0°	(1) UHBA B13 RRH 4x30	700 LTE		
A-3	EMPTY	-	-	-	-	-	-	-		
A-4	ANTEL	BXA-171063-8BF	167.00'	30°	0°	0°	-	-		
A-5	ANTEL	LPA-80063-4CF	167.00'	30°	0°	0°	-	-		
B-1	ANTEL	LPA-80080-6CF	167.00'	150°	0°	0°	-	-	(4) 1-5/8" Ø CDAX (220'±)	
B-2	ANTEL	BXA-70080-6CF	167.00'	150°	0°	0°	(1) UHBA B13 RRH 4x30	700 LTE		
B-3	EMPTY	-	-	-	-	-	-	-		
B-4	ANTEL	BXA-171085-12BF	167.00'	150°	0°	0°	-	-		
B-5	AMPHENOL	LPA-80080-6CF	167.00'	150°	0°	0°	-	-		
G-1	ANTEL	LPA-80063-4CF	167.00'	270°	0°	0°	-	-	(4) 1-5/8" Ø CDAX (220'±)	
G-2	AMPHENOL	BXA-70063-6CF	167.00'	270°	0°	0°	(1) UHBA B13 RRH 4x30	700 LTE		
G-3	EMPTY	-	-	-	-	-	-	-		
G-4	ANTEL	BXA-171063-8BF	167.00'	270°	0°	0°	-	-		
G-5	ANTEL	LPA-80063-4CF	167.00'	270°	0°	0°	-	-		

NOTES:
 1. PLANS PREPARED PER RF SHEET DATED 11/23/2021. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
 2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

NB+C
 TOTALLY COMMITTED.
 NB+C ENGINEERING SERVICES, LLC.
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 (978) 856-3000

verizon
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REVISIONS			
REV	DATE	DESCRIPTION	BY
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STATE OF CONNECTICUT
 DANIEL J. CORNING, P.E.
 34055
 LICENSED PROFESSIONAL ENGINEER

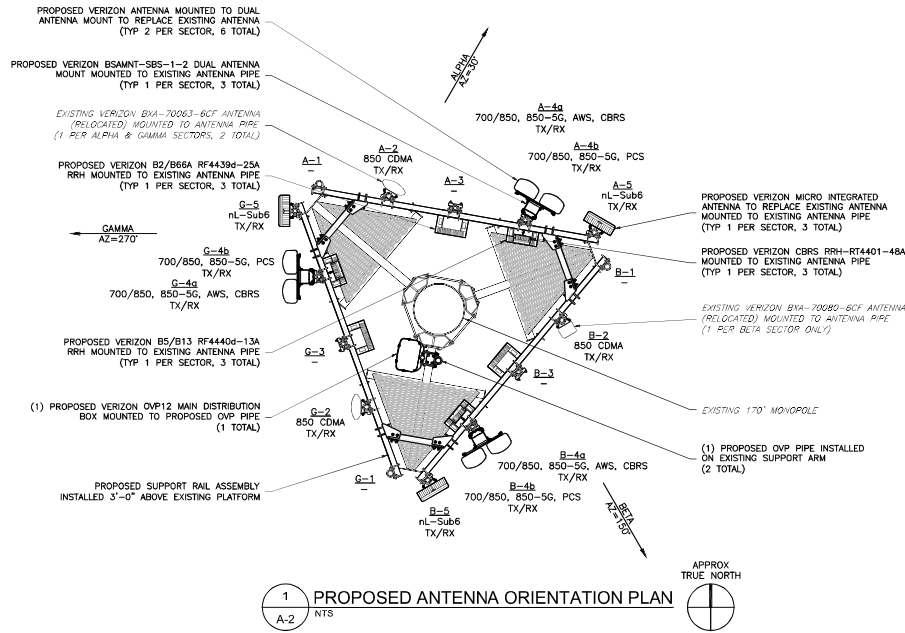
DANIEL J. CORNING, P.E.
 CT PROFESSIONAL ENGINEER LIC. #34055

EXISTING ANTENNA PLAN & SCHEDULE

A-1

GENERAL ANTENNA NOTES

- ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR TO COORDINATE REQUIRED MECHANICAL DOWNTILT FOR EACH ANTENNA WITH RF ENGINEER.
- ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'.
- CHECK WITH RF ENGINEER FOR LATEST ANTENNA TYPE & AZIMUTH.
- CONTRACTOR SHALL VERIFY ANTENNA TYPE AND AZIMUTH WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- ALL CABLE LENGTHS ARE ESTIMATED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- COLOR TAPE MARKINGS MUST BE 3/4" WIDE AND UV RESISTANT, SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE.
- CONTRACTOR SHALL COORDINATE COLOR CODINGS IN THE FIELD WITH VERIZON REPRESENTATIVE.
- A STRUCTURAL ANALYSIS REPORT HAS BEEN ISSUED BY TOWER ENGINEERING SOLUTIONS, DATED 11/01/2021 TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES.



NOTE:
POST-MODIFICATION INSPECTION (PMI) REQUIRED ON ALL SITES. REFER TO THE MOUNT ANALYSIS PREPARED BY MASER CONSULTING CONNECTICUT DATED 10/07/2021 FOR ADDITIONAL DETAILS.

NOTE:
MOUNT MODIFICATIONS ARE REQUIRED BEFORE ANY INSTALL CAN OCCUR, PLEASE REFER TO THE MOUNT MODIFICATION DRAWINGS PROVIDED BY MASER CONSULTING CONNECTICUT DATED, 09/16/2021.

PROPOSED ANTENNA & RRH SCHEDULE

ANTENNA POSITION	ANTENNA MANUFACTURER	ANTENNA MODEL	RAD CENTER	AZIMUTH	DOWN TILT		RRH QUANTITY & MODEL	TECHNOLOGY	CABLE SIZE, QUANTITY, & LENGTH
					MECH	ELEC			
A-1	EMPTY	-	-	-	-	-	-	-	-
A-2	ANTEL	BXA-70063-6CF	167.00'	30°	0'	0'	-	850 CDMA	(2) 1-3/8" COAX (220'±)
A-3	EMPTY	-	-	-	-	-	-	-	-
A-4a	COMMSCOPE	NHHSS-65B-R2BT0	167.00'	30°	0'	2'/0"/4"	(1) RF4439D-25A	PCS/AWS	(1) 12x24 HYBRID CABLE (220'±)
A-4b	COMMSCOPE	NHH-65B-R2B	167.00'	30°	0'	2'/0'	(1) CBRS RRH-RT4401-48A (1) RF4440D-13A	CBRS 700/850	
A-5	SAMSUNG	MT6407-77A	167.00'	30°	0'	6'	INTEGRATED IN ANTENNA	nL-Sub6	-
B-1	EMPTY	-	-	-	-	-	-	-	-
B-2	ANTEL	BXA-70080-6CF	167.00'	150°	0'	0'	-	850 CDMA	(2) 1-5/8" COAX (220'±)
B-3	EMPTY	-	-	-	-	-	-	-	-
B-4a	COMMSCOPE	NHHSS-65B-R2BT4	167.00'	150°	0'	2'/0"/4"	(1) RF4439D-25A	PCS/AWS	SHARED THROUGH HYBRID CABLE
B-4b	COMMSCOPE	NHH-65B-R2B	167.00'	150°	0'	2'/0'	(1) CBRS RRH-RT4401-48A (1) RF4440D-13A	CBRS 700/850	
B-5	SAMSUNG	MT6407-77A	167.00'	150°	0'	6'	INTEGRATED IN ANTENNA	nL-Sub6	-
G-1	EMPTY	-	-	-	-	-	-	-	-
G-2	ANTEL	BXA-70063-6CF	167.00'	270°	0'	0'	-	850 CDMA	(2) 1-3/8" COAX (220'±)
G-3	EMPTY	-	-	-	-	-	-	-	-
G-4a	COMMSCOPE	NHHSS-65B-R2BT0	167.00'	270°	0'	2'/0"/4"	(1) RF4439D-25A	PCS/AWS	SHARED THROUGH HYBRID CABLE
G-4b	COMMSCOPE	NHH-65B-R2B	167.00'	270°	0'	2'/0'	(1) CBRS RRH-RT4401-48A (1) RF4440D-13A	CBRS 700/850	
G-5	SAMSUNG	MT6407-77A	167.00'	270°	0'	6'	INTEGRATED IN ANTENNA	nL-Sub6	-

- NOTES:**
- CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
 - CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE TO BUILD FROM THE LATEST RF SHEET.



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100 HILLSIDE DRIVE
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CHESHAMING, MA 01520
(978) 856-3000



118 FLANDERS ROAD
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175 SOUTH MAIN STREET
MARLBOROUGH, CT 06447
TOWN OF MARLBOROUGH
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DANIEL J. CORNING, P.E.
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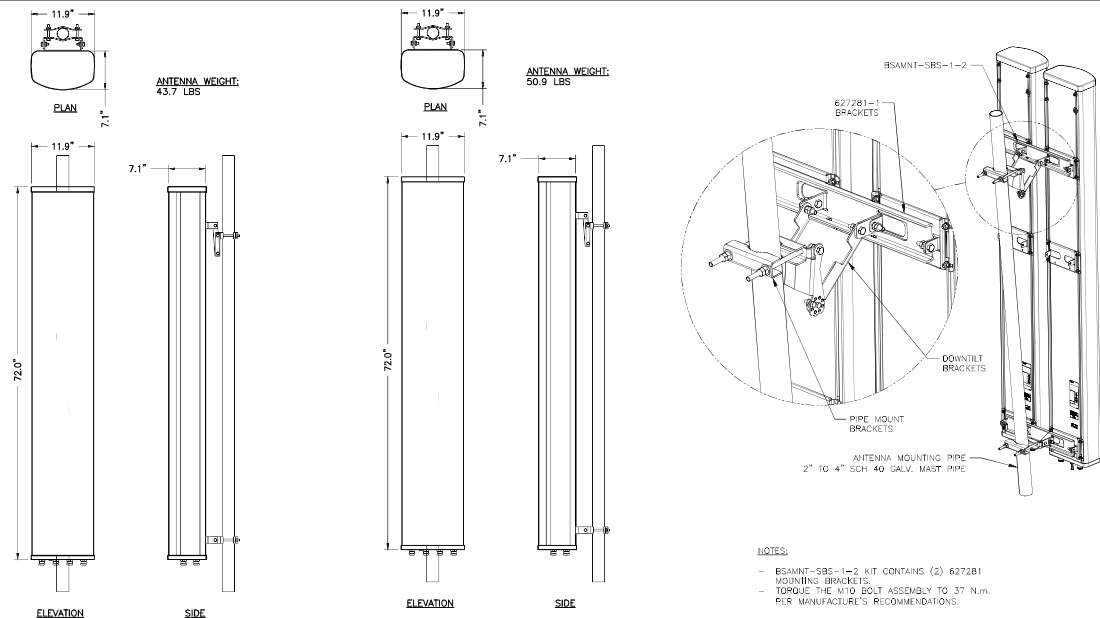
PROPOSED ANTENNA PLAN & SCHEDULE

A-2

EXISTING ANTENNA SPECIFICATIONS						
ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
ANTEL	* LPA-800B3-4CF	4	4.74"	15.2"	1.32"	20.0 LBS
AMPHENOL	* LPA-800B0-6CF	2	70.9"	5.5"	1.32"	21.0 LBS
ANTEL	* BKA-700B3-6CF	2	71.0"	11.2"	6.0"	17.0 LBS
ANTEL	* BKA-700B0-6CF	1	71.0"	8.0"	5.9"	18.0 LBS
ANTEL	* BKA-1710B3-BBF	2	71.0"	11.2"	6.0"	17.0 LBS
ANTEL	* BKA-1710B5-12BF	1	71.0"	8.0"	5.9"	18.0 LBS

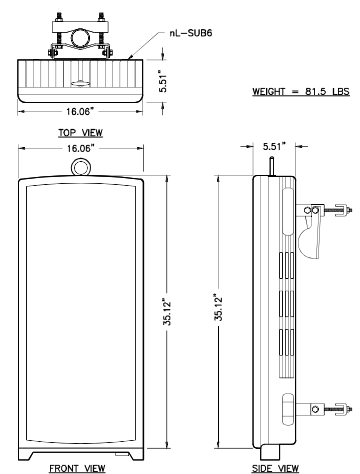
* TO BE REMOVED

PROPOSED ANTENNA SPECIFICATIONS						
ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
COMMSCOPE	NHH-65B-R2B	3	72.0"	11.9"	7.1"	43.7 LBS
COMMSCOPE	NHSS-65B-R2BT4	3	72.0"	11.9"	7.1"	50.9 LBS
SAMSUNG	MT6407-77A	3	35.12"	16.06"	5.51"	81.5 LBS

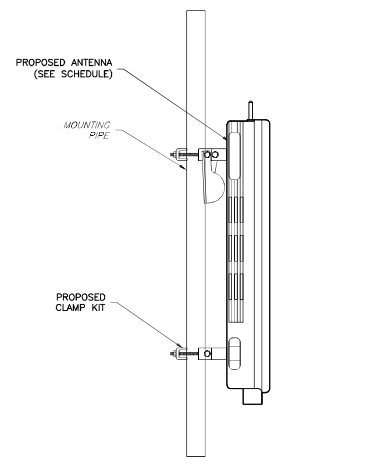


- NOTES:
- BSAMNT-SBS-1-2 KIT CONTAINS (2) 6272B1 MOUNTING BRACKETS.
 - TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURER'S RECOMMENDATIONS.

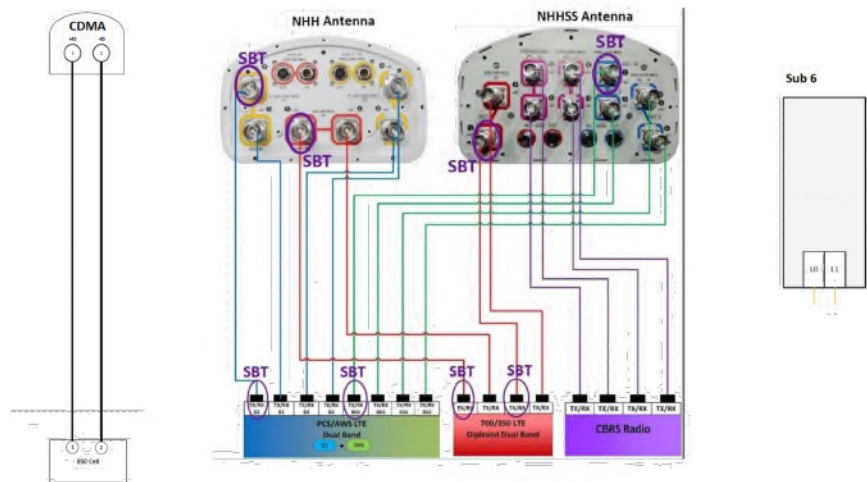
1 NHH-65B-R2B ANTENNA DETAILS
2 NHSS-65B-R2BT10 ANTENNA DETAILS
3 DUAL ANTENNA MOUNTING DETAILS



4 MT6407-77A INTEGRATED ANTENNA



5 ANTENNA MOUNTING DETAILS



RFDS DATED 11/23/21, 11:09:59

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DANIEL J. CORNING, P.E.
34055
LICENSED PROFESSIONAL ENGINEER

ENGINEER
DANIEL J. CORNING, P.E.
CT PROFESSIONAL ENGINEER LIC. #34055

SHEET TITLE
ANTENNA DETAILS & PLUMBING DIAGRAM

SHEET NUMBER
A-3

EXISTING RRH EQUIPMENT SPECIFICATIONS

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
LUCENT	*UNDA B13 RRH 4x30	SHELTER	3	21.00"	12"	9.0"	56.7 LBS

* TO BE REMOVED

PROPOSED RRH EQUIPMENT SPECIFICATIONS

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
SAMSUNG	RF4440d-13A	MONOPOLE	3	15.50"	15.90"	10.20"	74.5 LBS
SAMSUNG	RF4439d-25A	MONOPOLE	3	15.50"	15.90"	12.00"	90.0 LBS
SAMSUNG	CBRS RRH-RT4401-48A	MONOPOLE	3	13.9"	8.6"	5.6"	22.0 LBS

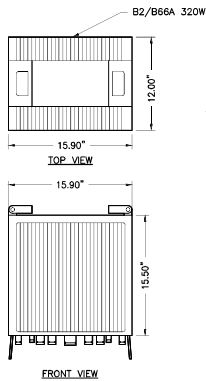
EXISTING DISTRIBUTION EQUIPMENT SPECIFICATIONS

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
UNKNOWN	*UNKNOWN	SHELTER	1	-	-	-	-

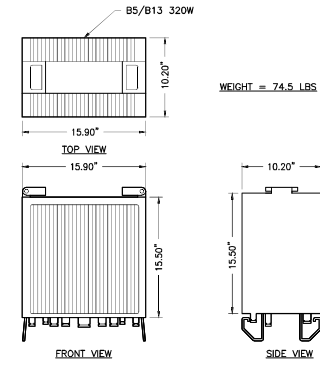
* TO BE REMOVED

PROPOSED DISTRIBUTION EQUIPMENT SPECIFICATIONS

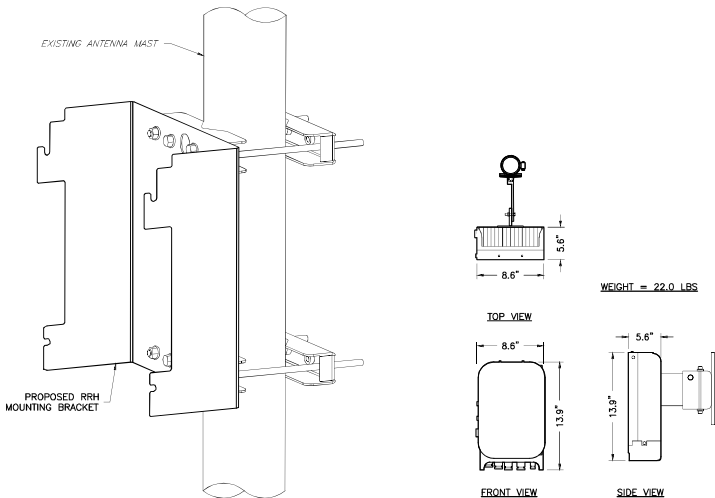
MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
RAYCAP	RVZDC-6627-PF-48 (OVP12)	MONOPOLE	1	28.93"	15.73"	10.3"	32.0 LBS



1 B2/B66A RF4439D-25A (REMOTE RADIO HEAD)
A-4 NTS

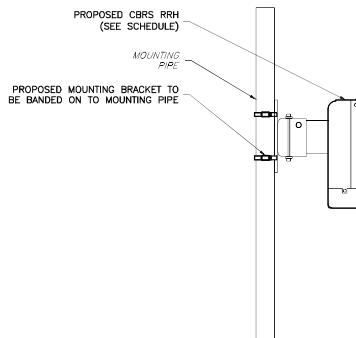


2 B5/B13 RF4440D-13A (REMOTE RADIO HEAD)
A-4 NTS

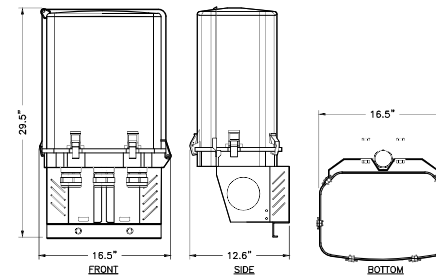


3 RRH MOUNTING DETAIL
A-4 NTS

4 CBRS RT4401-48A RRH
A-4 NTS



5 CBRS RRH MOUNTING DETAILS
A-4 NTS



6 OVP12 DISTRIBUTION BOX DETAIL
A-4 NTS

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CT PROFESSIONAL ENGINEER LIC. #34055

EQUIPMENT SPECIFICATIONS & DETAILS

A-4

VERIZON WIRELESS CONTRACTOR SCOPE OF WORK

- VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL THE PROPOSED CABLE JUMPER (WITH LC TO LC CONNECTORS) FROM THE PROPOSED FIBER TRAYS TO THE PROPOSED MAIN DISTRIBUTION BOX (BOTTOM).
 - VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL ALL MOUNTING HARDWARE AND 1/2" ANTENNA JUMPER CABLES AS REQUIRED DURING CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL THE PROPOSED MAIN DISTRIBUTION BOXES (BOTTOM) INSIDE OF THE EXISTING EQUIPMENT SHELTER. THE CONTRACTOR IS TO VERIFY THE LOCATION IN THE EQUIPMENT SHELTER PRIOR TO CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL THE PROPOSED MAIN DISTRIBUTION BOXES (TOP) IN TWO SECTORS ON THE BACK SIDE OF ANTENNA PIPE.
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL (1) RUNS OF 12x24 HYBRID CABLE FROM THE PROPOSED MAIN DISTRIBUTION BOXES (BOTTOM) TO THE MAIN DISTRIBUTION BOXES (TOP) FOLLOWING THE PATH OF THE EXISTING CABLES.
 - VERIZON WIRELESS CONTRACTOR IS TO MAKE ALL ALARM CONNECTIONS TO THE DISTRIBUTION BOXES AND LEAVE A 40' COIL FOR OTHERS TO PUNCH INTO ALARM BLOCK.
 - VERIZON WIRELESS CONTRACTOR IS TO SEAL ALL DISTRIBUTION BOXES AS REQUIRED DURING CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL (12) RUNS OF HELIAX 1/1 HYBRID CABLE FROM THE PROPOSED MAIN DISTRIBUTION BOXES TO THE REMOTE RADIO HEAD UNITS.
 - VERIZON WIRELESS CONTRACTOR IS TO SUPPLY AND INSTALL 1/2" ANTENNA JUMPERS FROM EACH PROPOSED REMOTE RADIO HEAD UNIT (RRH) TO THE PROPOSED ANTENNAS IN ALL SECTORS (48 TOTAL 1/2" ANTENNA JUMPERS).
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL THE PROPOSED REMOTE RADIO HEAD UNITS IN ALL SECTORS ON THE ANTENNA PIPE.
 - VERIZON WIRELESS CONTRACTOR IS TO GROUND ALL REMOTE RADIO HEAD UNITS (RRH) AND DISTRIBUTION BOXES TO THE EXISTING GROUND BARS AS REQUIRED DURING CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO GROUND ALL PROPOSED ANTENNAS TO THE EXISTING GROUND BARS AS REQUIRED DURING CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO COMPLETE THE INSTALLATION OF THE PROPOSED ANTENNAS AND HYBRIFLEX CABLE SYSTEM.
 - VERIZON WIRELESS CONTRACTOR IS TO PERFORM THE FOLLOWING OPTICAL SWEEP TESTS; OTDR AND OPTICAL LOSS. RECOMMENDED UNITS – ANRITSU MT9090, JDSU, EXFO FTB-1/FTB-720 OTDR.
 - VERIZON WIRELESS CONTRACTOR IS TO PERFORM THE FOLLOWING ANTENNA SYSTEM SWEEP TESTS: SYSTEM VZWR / dB RL.
 - VERIZON WIRELESS CONTRACTOR IS TO PROVIDE ALL CLOSE OUT DOCUMENTS AS REQUIRED BY VERIZON WIRELESS.
- SAMSUNG RRH
- DUAL RRH B2/B66A RF4439d-25A HELIAX 1/1 HYBRID CABLE CABLE MUST BE CONNECTED TO THE L0 PRIMARY PORT AND (1) EXTRA PAIR OF FIBER CONNECTED TO L1 SECONDARY PORT.
 - DUAL RRH B5/B13 RF4440d-13A HELIAX 1/1 HYBRID CABLE MUST BE CONNECTED TO THE L0 PRIMARY PORT.
- INTEGRATED ANTENNA
- MT6407-77A 1/1 HYBRID CABLE MUST BE CONNECTED TO OPT1 PORT AND (2 OR 3) EXTRA FIBER CABLE TO THE SECONDARY OPT2 PORT.
 - CBRS 1/1 HYBRID CABLE MUST BE CONNECTED TO OPT1 PORT AND (1) EXTRA FIBER CABLE TO THE SECONDARY OPT2 PORT.

MOP FOR RET INSTALLS

ANTENNA CREW



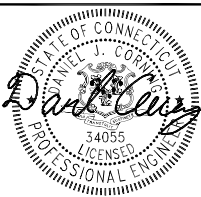
1. REVIEW ANTENNA SCHEDULE WITH CELL TECH
2. FOR EACH SECTOR, LAY ANTENNAS OUT ON THE GROUND AS THEY WILL BE INSTALLED ACCORDING TO THE ANTENNA SCHEDULE
3. LABELED EACH ANTENNA WITH FACE AND POSITION WITH A SHARPIE (EX:"ALPHA-4")
4. LABEL ALL MOTORS WITH SHARPIE WITH BAND AND TECHNOLOGY (EX:"700LTE", "AWSLTE","PCSLTE","850VOICE", ETC)
5. CONNECT ALL AISG CABLES (INCLUDING JUMPERS THAT WILL BE USED IN FINAL ASSEMBLY) PER THE ANTENNA SCHEDULE
 - A. WHEN DAISY CHAINING IS INEVITABLE, AS A GENERAL RULE...
 - I. KEEP LOW AND HIGH BANDS ON SEPARATE AISG CHAINS AS MUCH AS POSSIBLE
 - II. MINIMIZE AMOUNT OF MOTORS PER CHAIN AS MUCH AS POSSIBLE (MAX IS 6)
 - B. WHEN COMPLETED ALL RET MOTOR PORTS NEED TO BE CONNECTED, INCLUDING THE MOTORS NOT BEING USED YET. THE ONLY UNUSED PORT WILL BE THE LAST IN THE DAISY CHAIN, WHICH NEEDS TO BE CAPPED AND WEATHERPROOFED.
6. ON LAPTOP, FILL OUT THE SOFTCOPY OF THE RET DEPLOYMENT FORM AND SAVE IT, REPLACING THE "#####" WITH THE 6-DIGIT ENB NUMBER IN THE FILENAME (EX: RET DEPLOYMENT FORM_0981234.XLSX")
7. GIVE A SOFTCOPY OF THE RET DEPLOYMENT FORM TO VZW CELL TECH AND GC/CONSULTANT (EITHER BY EMAIL OR USB STICK)
8. USING THE SAME LAPTOP WHICH HAS THE RET DEPLOYMENT FORM OPENED, CONNECT THE CONTROL MODULE AND PROVISION EACH MOTOR RESPECTIVELY

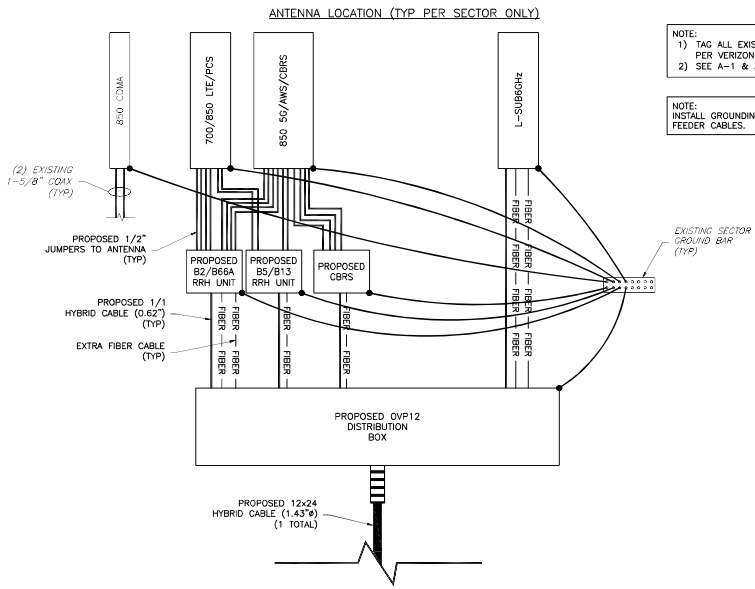
NOTE: CREWS MUST USE SOFTWARE THAT IS SPECIFIC TO THE MOTOR TYPE BEING PROVISIONED (IE- JMA SOFTWARE SHOULD ONLY BE SUED FOR JMA MOTORS)

 - A. COPY AND PASTE "RET FRIENDLY NAME" FROM SPREADSHEET (COLUMN A) TO THE "SECTOR ID" FIELD EACH MOTOR
 - B. POPULATE "SET RET TILT"
 - C. POPULATE "MECHANICAL TILT"
9. CALIBRATE ALL MOTORS
10. DISCONNECT NECESSARY AISG JUMPERS TO TRANSPORT ANTENNAS SAFELY TO ASSEMBLY
11. INSTALL ANTENNAS ACCORDING TO THE ANTENNA SCHEDULE, USING THE SHARPIE LABELS AS REFERENCE
12. RECONNECT ALL AISG JUMPERS
13. BEFORE PLUGGING INTO EACH RRH, CONNECT MAIN AISG CABLE INTO CONTROLLER TO ENSURE ALL MOTORS ARE STILL SEEN IN THE DAISY CHAIN
14. PLUG AISG INTO RRH AND NOTIFY VZW TECH OF COMPLETION

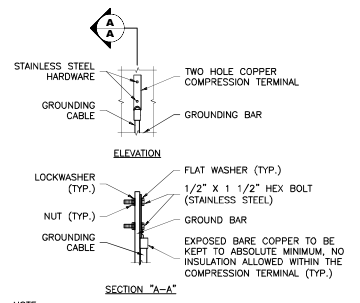
VZW TECH (USER HELP GUIDE: \\WIN-VZWNET\NORTHEAST\PAPM_IMPLEMENTATION\SYSTEM PERFORMANCE\USERS\MOSERGA\RET\)

15. POWER ON RADIO EQUIPMENT AND RUN ANY NECESSARY WOS
16. "DISCOVER" THE RETS
 - A. LOG INTO SAM
 - I. VERIFY RET LICENSE ALLOCATION IN SAM
 - ENBEQUIPMENT>ENB>ACTIVATIONSERVICE>ISAISGALLOWED=CHECKED
 - B. LOG INTO NEM LOCAL
 - I. GO TO TREE VIEW AND HIGHLIGHT RET SUBUNIT
 - II. ENABLE BUS SCAN
 - CONFIGURATION> ENABLE AISG BUS SCAN
 - III. ALLOCATE CONFIG RIGHTS
 - CONFIGURATION>ALLOCATION CONFIGURATION RIGHTS
 - IV. VERIFY CORRECT NUMBER OF RETS ARE DISCOVERED
17. "COMMISSION" THE RETS
 - A. LOG INTO NEM LOCAL
 - I. STILL IN TREE VIEW, RIGHT CLICK ON "HW MODULES"
 - II. SELECT "CREATE RET MO"
 - CONFIGURATION>RELEASE CONFIGURATION RIGHTS
 - IV. VERIFY RETSUBUNIT:SECTORNAME, ELECTRICAL TILT, AND MECHANICAL TILT ARE POPULATED
18. "PROVISION" THE RETS
 - A. LOG INTO SAM
 - I. OPEN UP THE ENB PROPERTIES AND COMPLETE A FULL RESYNC
 - II. IN THE SEARCH TEXTBOX, SEARCH FOR "RETSUBUNIT"
 - III. VERIFY ALL RETS ARE ACCOUNTED FOR AND "RETSUBUNIT:SECTORNAME", "ANTENNAELECTICALTILT", AND "RETSUBUNIT:MECHANICALTILT" ARE ACCURATE

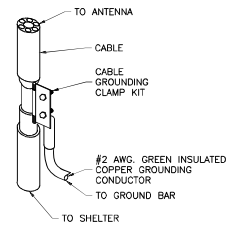
ENGINEER	 TOTALLY COMMITTED. <small>NB+C ENGINEERING SERVICES, LLC. 100 HAVILLARD DRIVE SUITE 101 WESTBOROUGH, MA 01581 (978) 852-3000</small>																																
APPLICANT	 118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581																																
SITE INFORMATION	MARLBOROUGH_EAST_CT 175 SOUTH MAIN STREET MARLBOROUGH, CT 06447 TOWN OF MARLBOROUGH HARTFORD COUNTY																																
DESIGN RECORD	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>09/11/22</td> <td>FINAL CDG</td> <td>JQ</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS				REV	DATE	DESCRIPTION	BY	0	09/11/22	FINAL CDG	JQ																				
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SHEET TITLE	SCOPE OF WORK																																
SHEET NUMBER	A-5																																



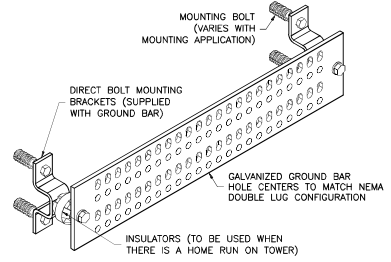
1 GROUNDING RISER DIAGRAM
G-1 NTS



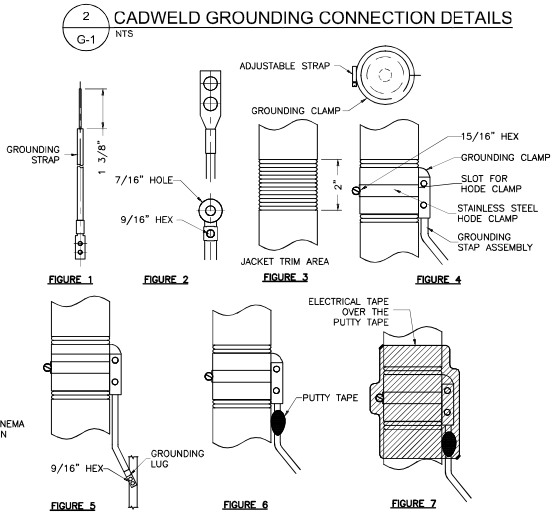
3 GROUND BAR CONNECTION DETAIL
G-1 NTS



4 CABLE GROUNDING DETAIL
G-1 NTS



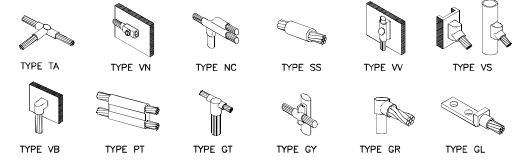
5 GROUND BAR DETAIL
G-1 NTS



6 GROUNDING STRAP WEATHERPROOFING DETAIL
G-1 NTS

GROUNDING NOTES

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.



2 CADWELD GROUNDING CONNECTION DETAILS
G-1 NTS

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GROUNDING DETAILS & NOTES



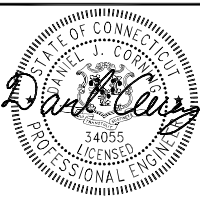
G-1

POST-MODIFICATION INSPECTION (PMI) REQUIREMENT

1. PMI REQUIRED FOR ALL SITES, REFER TO VERIZON NSTD-446 SECTIONS 1.5 AND 2.3 FOR MORE INFORMATION.
2. REFER TO THE MOUNT ANALYSIS BY MASER CONSULTING CONNECTICUT DATED 10/07/2021 FOR ADDITIONAL DETAILS.
3. GENERAL CONTRACTOR SHALL PROVIDE THE BELOW DOCUMENTATION TO THE ENGINEER OF RECORD VIA EMAIL TO VZWMOUNTS@NBCLLC.COM, DROPBOX, OR OTHER FILESHARE METHOD. PROVIDE HIGH RESOLUTION PHOTOS (DO NOT COMPRESS).
4. ENGINEER OF RECORD WILL CONDUCT A REVIEW OF THE PROVIDED DOCUMENTS TO PREPARE A PMI REPORT. ENGINEER OF RECORD WILL NOTIFY GENERAL CONTRACTOR IF ANY ADDITIONAL DOCUMENTATION IS REQUIRED TO COMPLETE THE PMI.
5. PMI DOCUMENTATION SHALL BE SUFFICIENT TO CONFIRM THE UPGRADE WAS BUILT AS DESIGNED, INCLUDING EQUIPMENT CHANGES AND STRUCTURAL MODIFICATIONS, AND IS IN ADDITION TO ANY OTHER REQUIRED CLOSEOUT PACKAGE DOCUMENTATION.
6. REQUIRED DOCUMENTATION FOR PMI INCLUDES THE FOLLOWING AT A MINIMUM. REFER TO THE MOUNT ANALYSIS FOR POSSIBLE ADDITIONAL INFORMATION. IF STRUCTURAL MODIFICATIONS ARE REQUIRED, REFER TO THE MODIFICATION DRAWINGS FOR POSSIBLE ADDITIONAL REQUIREMENTS.
 - 6A. PROVIDE PRE-AND-POST CONSTRUCTION PHOTOS OF EACH SECTOR FROM THE MOUNT ELEVATION AND THE GROUND. CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PHOTOS PROVIDED PROVIDE POSITIVE CONFIRMATION THAT THE MODIFICATION/UPGRADE WAS COMPLETED IN ACCORDANCE WITH THESE CONSTRUCTION DRAWINGS AND ANY STRUCTURAL/MOUNT MODIFICATION DRAWINGS. CONTRACTOR SHALL RELAY ANY DATA THAT CAN IMPACT THE PERFORMANCE OF THE MOUNT OR MOUNT MODIFICATION, INCLUDING SAFETY ISSUES. PHOTOS SHALL HAVE A DATE/TIME STAMP IN THE PHOTO. REFER TO THE MOUNT ANALYSIS FOR FILE STRUCTURE SCHEDULE OF PHOTOS. PROVIDE PHOTOS OF THE GATE SIGNS AND CARRIER SHELTER TO IDENTIFY THE TOWER OWNER, SITE NAME, SITE NUMBER, ETC.
 - 6B. VERIFICATION OF THE MEMBER CONNECTIONS, BRACING, AND RELEVANT DIMENSIONS.
 - 6C. VERIFICATION OF THE ANTENNA AND OTHER EQUIPMENT CONFIGURATION (PHOTOS OF MODEL NUMBERS/TAGS FOR ALL EQUIPMENT, AS WELL AS THE FEEDLINE CONFIGURATION). TAKE PHOTOS OF THE BACK SIDE OF EACH SECTOR AS WELL AS CLOSE-UPS OF ALL EQUIPMENT. PHOTOS SHOULD CONFIRM THE HORIZONTAL AND VERTICAL POSITIONING OF THE ANTENNAS AND EQUIPMENT AND SHALL HAVE TAPE MEASURES IN THE PHOTOS TO CONFIRM.
 - 6D. FOR TIE-BACKS, STRUTS, MOUNT PIPES, PHOTOS TO CONFIRM THE ANGLES AND LOCATION OF ATTACHMENT POINT AT BOTH ENDS OF MEMBER, AS WELL AS DIMENSIONS, THICKNESS, AND LENGTHS OF THE MEMBERS. REFER TO THE CHECKLIST IN THE MOUNT ANALYSIS FOR ADDITIONAL INFORMATION.
 - 6E. MOUNT ATTACHMENT TO THE SUPPORTING STRUCTURE, INCLUDING ANY KICKERS OR SUPPORTS, OR TIEBACKS.
 - 6F. MATERIALS USED (TYPE, STRENGTH, DIMENSIONS, ETC). PROVIDE BILL OF MATERIALS AND MATERIAL SPEC TO CONFIRM MATERIAL GRADES AND SIZES. PROVIDE DOCUMENTATION FOR GALVANIZATION OF MEMBERS WHETHER HOT-DIPPED OR COLD-GALVANIZED. IF MATERIALS DIFFER FROM THOSE SPECIFIED ON THESE DRAWINGS, PROVIDE DOCUMENTATION THAT THE "EQUIVALENT" MATERIAL HAS THE SAME SPECIFICATIONS.
 - 6G. MOUNT ORIENTATION/AZIMUTH AND ELEVATION. PROVIDE TAPE DROP PHOTOS OF ANTENNA CENTERLINE(S) AND MOUNT ATTACHMENT POINTS TO THE SUPPORTING STRUCTURE. IF THERE ARE MULTIPLE RAD CENTERS, PROVIDE PHOTOS OF ALL ELEVATIONS.

POST-MODIFICATION INSPECTION (PMI) REQUIREMENT CONT.

- 6H. VERIFICATION THAT THE INSTALL HAS NOT CAUSED DAMAGE TO OR UNPLANNED OBSTRUCTION OF THE FOLLOWING:
 - CLIMBING FACILITIES
 - SAFETY CLIMB IF PRESENT, INCLUDING PHOTOS ABOVE AND BELOW THE MOUNT.
 - LIGHTING SYSTEM
 - OTHER INSTALLED SYSTEMS ON THE STRUCTURE.
 - CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS SUPPORTED AND NOT ADVERSELY AFFECTED BY THE INSTALLATION OF NEW COMPONENTS. THIS MAY INVOLVE THE INSTALLATION OF WIRE ROPE GUIDES OR OTHER ITEMS TO PROTECT THE WIRE ROPE.
- 6I. OTHER ITEMS DETERMINED BY THE STRUCTURAL ENGINEER TO ENSURE THE MOUNT WILL PERFORM AS DESIGNED. PHOTOS OF RELEVANT MEASUREMENTS, WITH SUFFICIENT DETAILS TO CONFIRM CONNECTION DETAILS, PLACEMENT OF EQUIPMENT, WALL ANCHOR DETAILS, BALLAST QUANTITIES, STRUCTURAL MODIFICATIONS ETC. DIAMETERS AND THICKNESSES OF BOLTS/THREADED RODS/ANGLES/TUBES ETC SHALL HAVE PHOTOS CONFIRMING CALIPER MEASUREMENTS.
 - CONFIRMATION THAT ALL HARDWARE WAS PROPERLY INSTALLED, AND EXISTING HARDWARE WAS INSPECTED FOR ANY ISSUES.
 - FOR BALLAST SLEDS, DOCUMENTATION OF THE WEIGHT OF BALLAST IN EACH SECTOR.
 - FOR WALL ANCHORS, PHOTOS AND MEASUREMENTS OF OUTSIDE AND INSIDE OF CONNECTIONS. DOCUMENTATION OF ADHESIVE USED, SIZE AND LENGTH OF ANCHORS, EFFECTIVE EMBEDMENT DEPTH OF THE ANCHORS, GROUTING OF HOLLOW WALLS, SPACING AND EDGE DISTANCE MEASUREMENTS, AND ANY THROUGH-BOLTS OR BACKING PLATES.
 - FOR STUD WELD CONNECTIONS, DOCUMENTATION TO CONFIRM SURFACE PREPARATION, STUD WELD SIZE, GRADE, LENGTH, AND SPACING.
 - FOR FABRICATED PARTS, SHOP DRAWINGS TO BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
 - FOR WELDED PARTS, CERTIFIED WELD INSPECTION.
 - FOR BOLTED PARTS, BOLT INSTALLATION AND TORQUE.
7. CONTRACTOR SHALL PROVIDE, IN ADDITION TO THE ABOVE, AS-BUILT CDS WITH REDLINES IDENTIFYING ANY CHANGES. THE AS-BUILTS SHALL THE CONTRACTOR'S NAME, PREPARER'S SIGNATURE, AND DATE.
8. IF THE MODIFICATION INSTALLATION WOULD FAIL THE PMI ("FAILED PMI"), THE CONTRACTOR SHALL WORK WITH THE ENGINEER OF RECORD TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:
 - 8A. CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENTAL PMI.
 - 8B. OR, WITH THE EOR'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT/UPGRADE USING THE AS-BUILT CONDITION.
9. NOTE: IF LOADING IS DIFFERENT THAN THAT SHOWN IN THESE CONSTRUCTION DRAWINGS OR STRUCTURAL/MOUNT MODIFICATION DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY FOR RESOLUTION.
10. THE ENGINEERING FIRM PERFORMING AN ANALYSIS SHALL PROVIDE A CONTRACTOR'S PHOTO LOG AND CHECKLIST TO BE COMPLETED BY THE INSTALLING CONTRACTOR. THE CONTRACTOR SHALL THEN PROVIDE POST-INSTALLATION INFORMATION TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL REVIEW THE DOCUMENTS FOR ANY DEFICIENCIES THAT CAN BE DETERMINED FROM THE DESKTOP REVIEW OF THE DATA. THE ENGINEERING FIRM SHALL THEN PROVIDE DOCUMENTATION TO VZW THAT THE SITE IS COMPLETED, AND THE PMI REPORT IS APPROVED.

ENGINEER	 TOTALLY COMMITTED. <small>NB+C ENGINEERING SERVICES, LLC. 100 HAVILLARD DRIVE SUITE 101 CHELSEA, MA 01824 (978) 852-4000</small>												
APPLICANT	 118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581												
SITE INFORMATION	MARLBOROUGH_EAST_CT 175 SOUTH MAIN STREET MARLBOROUGH, CT 06447 TOWN OF MARLBOROUGH HARTFORD COUNTY												
DESIGN RECORD	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>091122</td> <td>FINAL CDS</td> <td>JC</td> </tr> </tbody> </table>	REVISIONS				REV	DATE	DESCRIPTION	BY	0	091122	FINAL CDS	JC
REVISIONS													
REV	DATE	DESCRIPTION	BY										
0	091122	FINAL CDS	JC										
PROFESSIONAL STAMP													
ENGINEER	DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC. #34055												
SHEET TITLE	PMI REQUIREMENTS												
SHEET NUMBER	GN-1												



**MOUNT MODIFICATION DRAWINGS
EXISTING 12.46' PLATFORM**

**TOWER OWNER: SBA TOWERS
TOWER OWNER SITE NUMBER: CT13062**

**CARRIER SITE NAME: MARLBOROUGH EAST CT
CARRIER SITE NUMBER: 468156
FUZE ID: 16272199**

**175 SOUTH MAIN STREET
MARLBOROUGH, CONNECTICUT 06447
HARTFORD COUNTY**

**LATITUDE: 41.615833° N
LONGITUDE: 72.436667° W**

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CONNECTICUT**

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SCALE:	AS SHOWN	DATE:	1/7/2021
REV	DATE	DESCRIPTION	DRAWN / CHECKED
0	9/16/2021	DESIGNED FOR CONSULTING	JPF / CK

Derek R. Hartzoff

CONNECTICUT REGISTERED PROFESSIONAL ENGINEER
No. 32716

Digitally signed by Derek R. Hartzoff
Date: 2021.09.16 12:00:46-0400'

DESIGN CRITERIA
WIND LOADS BASIC WIND SPEED (3 SECOND GUST), V = 120 MPH EXPOSURE CATEGORY B TOPOGRAPHIC CATEGORY I MEAN BASE ELEVATION (AMSL) = 326.19'
ICE LOADS ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.00 IN
SEISMIC LOADS SEISMIC DESIGN CATEGORY B SHORT TERM MCR GROUND MOTION, S _s = .206 LONG TERM MCR GROUND MOTION, S ₁ = .056

PROJECT INFORMATION
APPLICANT/LESSEE COMPANY: VERIZON WIRELESS
CLIENT REPRESENTATIVE COMPANY: VERIZON WIRELESS ADDRESS: 118 FLANDERS ROAD, THIRD FLOOR CITY, STATE, ZIP: WESTBOROUGH, MA 01581 CONTACT: ANDREW CANDIELLO EMAIL: ANDREW.CANDIELLO@VERIZONWIRELESS.COM
PROJECT MANAGER COMPANY: MASER CONSULTING CONTACT: PETER ALBANO PHONE: 856-797-0412 E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS
PMI LOCATION: HTTPS://PHIVZWSMART.COM
SMART TOOL PROJECT #: 10102156
VZVW LOCATION CODE (PLC): 468156
ANALYSIS DATE: 9/16/2021
PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX
SHEET DESCRIPTION
ST-1 TITLE SHEET
SBOM-1 BILL OF MATERIALS
SGN-1 GENERAL NOTES
SCF-1 CLIMBING FACILITY DETAIL
SS-1 MODIFICATION DETAILS
SS-2 MOUNT PHOTOS
SPECIFICATION SHEETS

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:
**MARLBOROUGH EAST CT
468156**
175 SOUTH MAIN STREET
MARLBOROUGH,
CONNECTICUT 06447
HARTFORD COUNTY

MASER CONSULTING

175 SOUTH MAIN STREET
MARLBOROUGH, CT 06447
Phone: 856.797.0412
Fax: 856.792.1120

TITLE SHEET

ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

PROJECT NOTES

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

GENERAL NOTES

- 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.
- 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.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- 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 ANSITIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSITIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE

CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.

- 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, ANSITIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- 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.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - AISC CODE OF STANDARD PRACTICE
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
 - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36)
 - STEEL PIPE ASTM A53 (GR 35)
 - BOLTS ASTM A325
 - NUTS ASTM A563
 - LOCK WASHERS LOCKING STRUCTURAL GRADE

- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
 - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.

- 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.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BEDIPPED 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.
- CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.

- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL EXISTING PAINTED GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

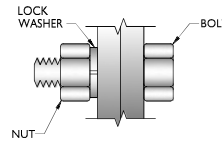
- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
- CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
- IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
- OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
- CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA, ANSIASSP A10.48, ANS1 Z49.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

BOLT SCHEDULE (IN.)

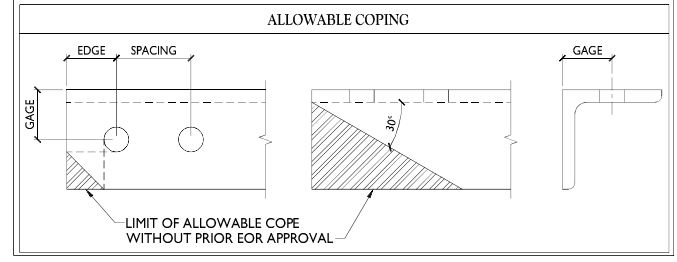
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 1 1/16	7/8	1 1/2
5/8	1 1/16	1 1/16 x 7/8	1 1/8	1 7/8
3/4	1 3/16	1 3/16 x 1	1 1/4	2 1/4
7/8	1 5/16	1 5/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

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



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



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 468156
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 MARLBOROUGH,
 CONNECTICUT 06447
 HARTFORD COUNTY

MASER CONSULTING
 100 STATE STREET, SUITE 200
 HARTFORD, CT 06103
 Phone: 862.797.0412 Fax: 862.792.1120

MODIFICATION NOTES

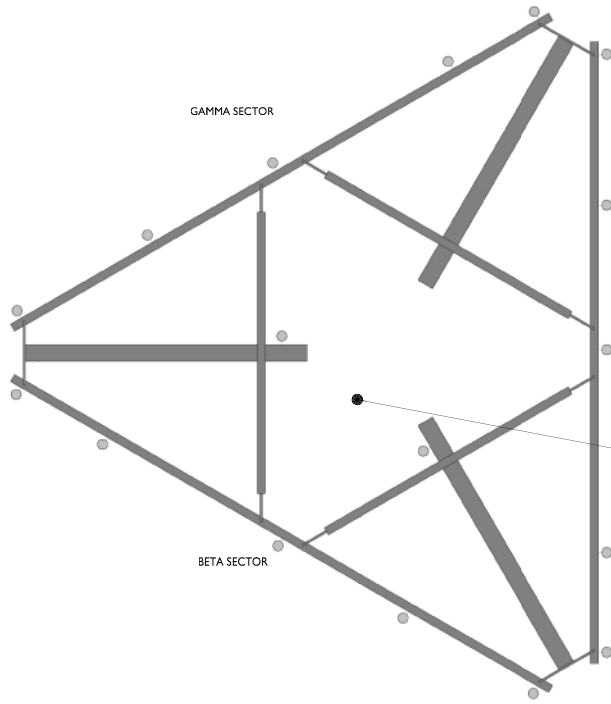
DATE: _____

DESCRIPTION: _____

BY: _____

SGN-I

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



Existing Climbing Facility

ALPHA SECTOR

Existing Climbing Facility

CLIMBING FACILITY LOCATION

SCALE: N.T.S.

1

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 4/3/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (165'-6") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



CLIMBING FACILITY PHOTO

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0	9/16/201	DESIGNED FOR CONSULTING	JPF EC

Derek Hartzell

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CONNECTICUT

175 SOUTH MAIN STREET
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Fax: 866.722.1120

SHEET TITLE:
CLIMBING FACILITY DETAIL

SHEET NUMBER:
SCF-1

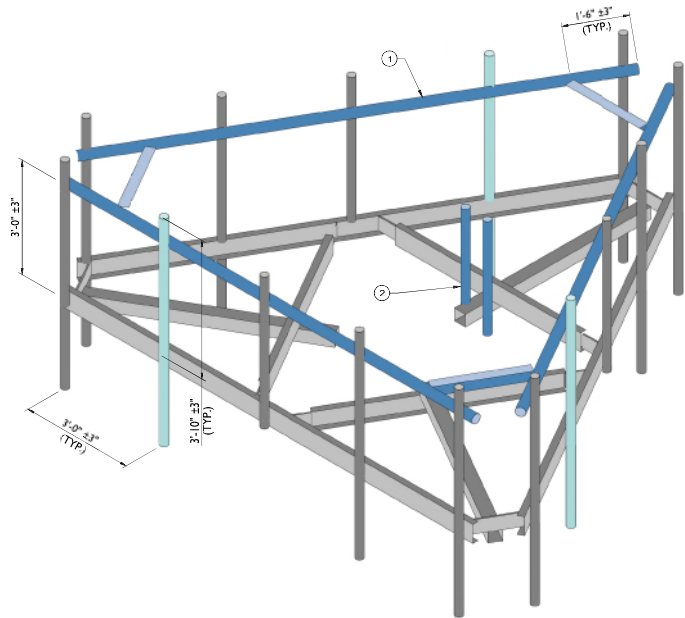
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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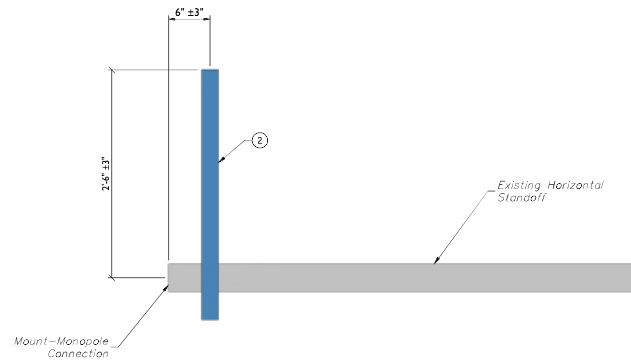
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE				
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	165'-6"	1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-FLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-I. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
2		2	36" LONG, P2 STD PIPE	GALVANIZED, CONNECT OVP MOUNTING PIPE TO EXISTING STANDOFF BETWEEN BETA AND GAMMA SECTORS USING BACK-TO-BACK CROSSOVER PLATE (PART #: VZWSMART-MSK6).

NOTES:
 MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
 REPLACE EXISTING BOLTS ON RELOCATED ANTENNA PIPES WITH NEW 1/2" DIA. U-BOLTS (2 PER CONNECTION).



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



2 PROPOSED SIDE ELEVATION VIEW (GAMMA SECTOR)
 SCALE: N.T.S.

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REV	DATE	DESCRIPTION	DRAWN / CHECKED JP / JP
0	9/16/2021	PROJECT FOR CONNTEL, LLC	JP / CK

Deed Shift

CONNECTICUT
 REGISTERED PROFESSIONAL ENGINEER
 R. HARTZELL
 32716
 LICENSED PROFESSIONAL ENGINEER

Digitally signed by Derek R. Hartzell
 Date: 2021.09.16 12:00:58-0400'

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 MODIFICATION DETAILS

SHEET NUMBER:
 SS-1

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MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

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Derek R. Hartzell

STATE OF CONNECTICUT
R. HARTFORD
32716
LICENSED PROFESSIONAL ENGINEER

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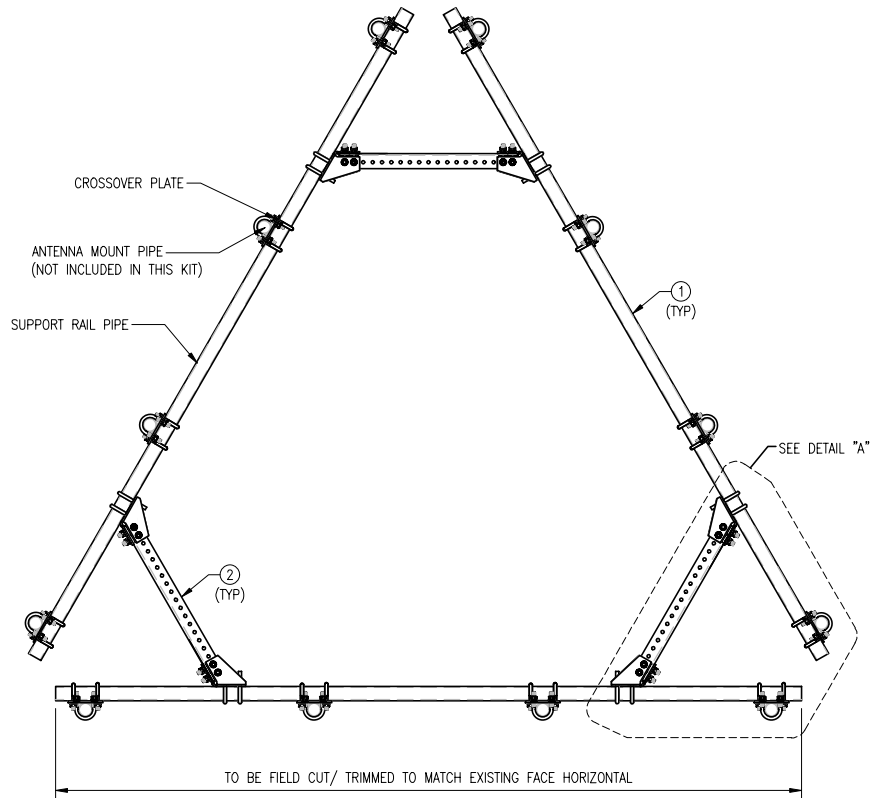
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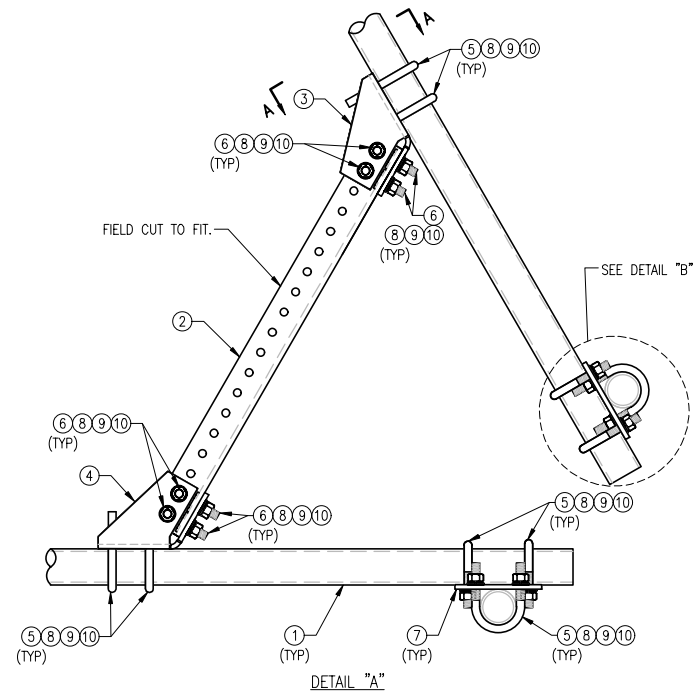
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MOUNT PHOTOS

SHEET NUMBER:
SS-2

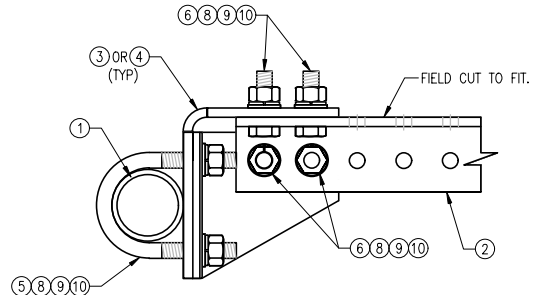
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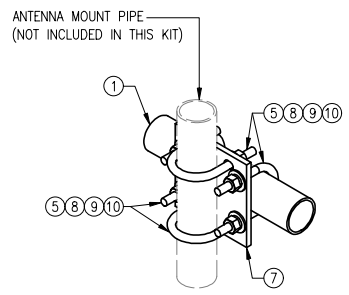
PLAN VIEW



DETAIL "A"



SECTION "A-A"



DETAIL "B"

NOTES:

- HOT-DIPPED GALVANIZED PER ASTM A123.

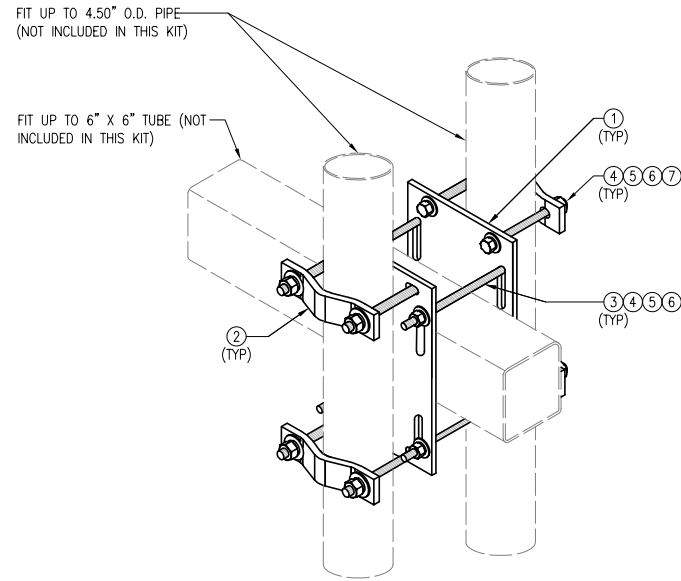
VZW SMART-PLK1 (SUPPORT RAIL KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" L.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
GALVANIZED WT					504

DRAWN BY: HJR | CHECKED BY: HMA

REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	HJR	05/08/20
△			
△			
△			

SHEET TITLE:
VZSMART-PLK1
SUPPORT RAIL KIT

SHEET NUMBER: VZSMART-PLK1 | REV #: 0



ISOMETRIC VIEW
 BACK TO BACK CROSSOVER

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

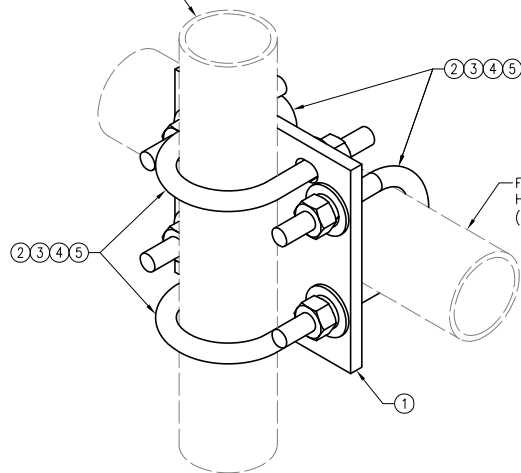
VZWSMART-MSK6 (VZWSMART-MSK6 - BACK TO BACK CROSSOVER)						
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	2	PL375-8512	PL 3/8" X 8 1/2" X 1'-0" A36	MSK6-F2	20.7	
2	4	VCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK6-F1	9.6	
3	4	----	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	----	----	
4	16	NUT-625	5/8" HDG HEX NUT	----	2	
5	16	FW-625	5/8" HDG USS FLAT WASHER	----	1	
6	16	LW-625	5/8" HDG LOCK WASHER	----	0	
7	8	----	BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD	----	1	
					GALVANIZED WT	34

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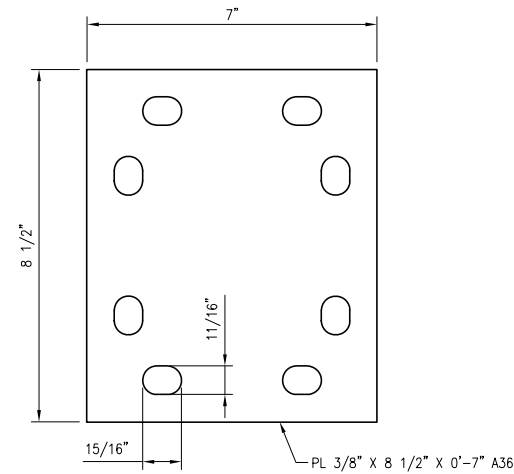
SHEET TITLE:
 VZWSMART-MSK6
 BACK TO BACK
 CROSSOVER

SHEET NUMBER: VZWSMART-MSK6	REV #: 0
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FITS 2.375" O.D. AND 2.875" O.D.
 VERTICAL PIPE.
 (NOT INCLUDED IN THIS KIT)



FITS 2.375" O.D. AND 2.875" O.D.
 HORIZONTAL PIPE.
 (NOT INCLUDED IN THIS KIT)



PL375-857

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

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

DRAWN BY: H.R.	CHECKED BY: HMA
REV. DESCRIPTION BY DATE	
△ FIRST ISSUE H.R. 05/08/20	
△	
△	
△	

SHEET TITLE:
 VZSMART-MSK1
 CROSSOVER PLATE

SHEET NUMBER: VZSMART-MSK1
 REV #: 0

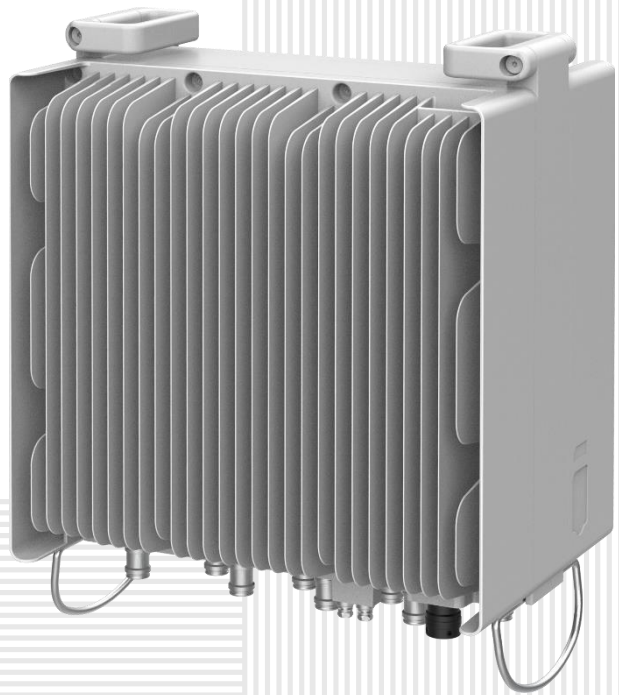
SAMSUNG

AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage
samsungnetworks.com

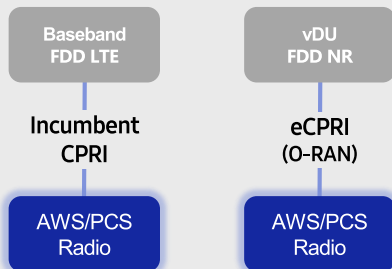


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Points of Differentiation

Continuous Migration

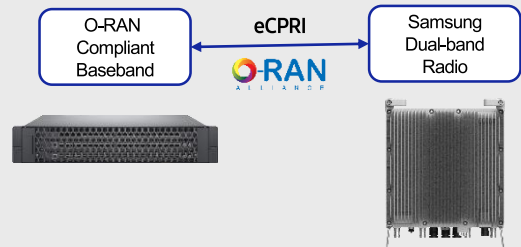
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

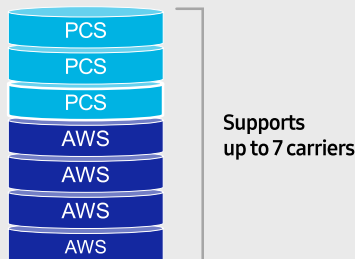
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

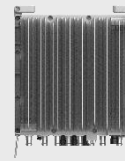
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



- 2 FH connectivity
- O-RAN capability
- More carriers and spectrum

Same as an incumbent radio volume

Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage
[samsungnetworks.com](https://www.samsungnetworks.com)

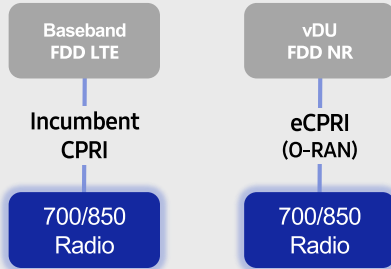


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

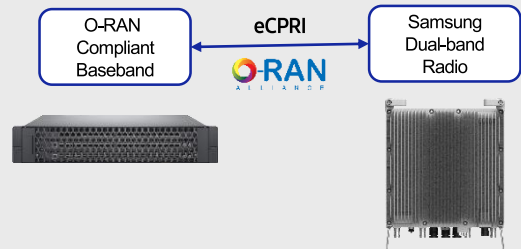
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

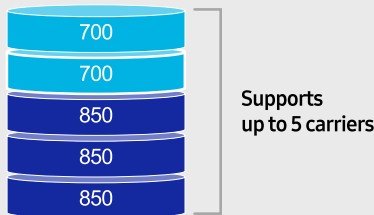
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Optimum Spectrum Utilization

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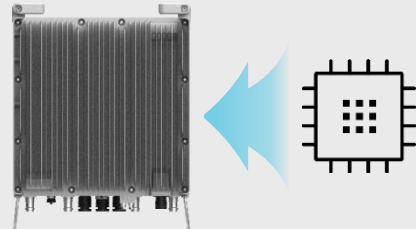
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



Technical Specifications

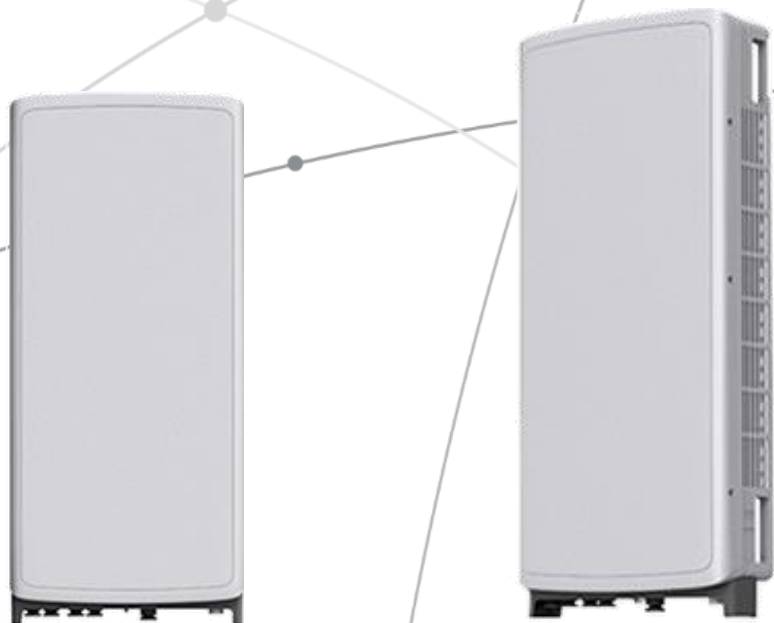
Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

SAMSUNG 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



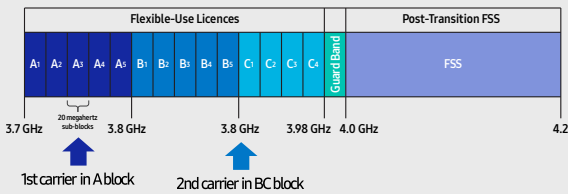
Points of Differentiation

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

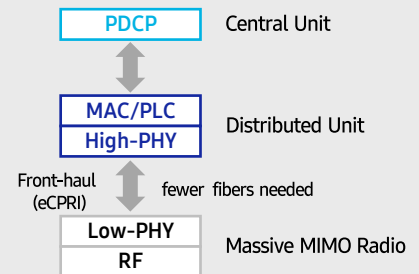
C-Band spectrum supported by Massive MIMO Radio



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.

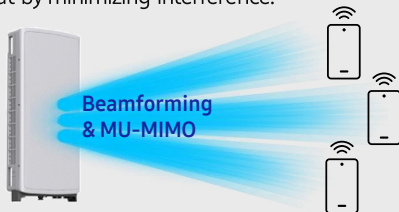


Enhanced Performance

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.

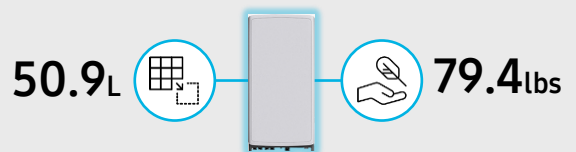
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



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.

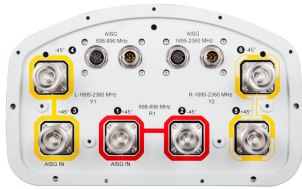
Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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NHH-65B-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Effective Projective Area (EPA), frontal	0.26 m ² 2.799 ft ²
Effective Projective Area (EPA), lateral	0.22 m ² 2.368 ft ²
Grounding Type	RF connector body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	6

Remote Electrical Tilt (RET) Information, General

RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	2 female 2 male

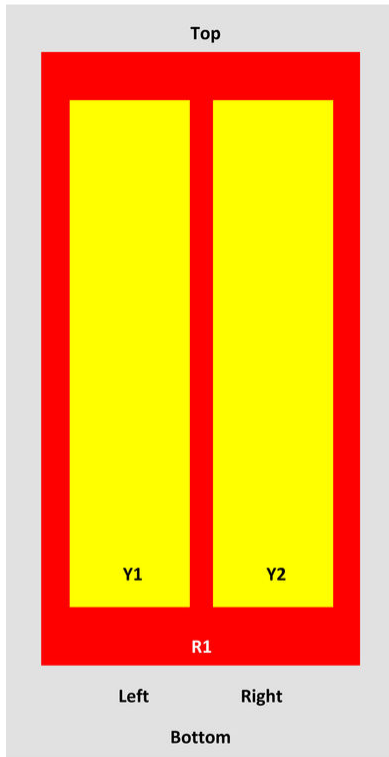
Dimensions

Width	301 mm 11.85 in
Length	1828 mm 71.969 in
Depth	180 mm 7.087 in

Array Layout

NHH-65B-R2B

NHH



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANXXXXXXXXXXXXXXXXX1
Y1	1695-2360	3-4	2	ANXXXXXXXXXXXXXXXXX2
Y2	1695-2360	5-6		

View from the front of the antenna
(Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz 698 – 896 MHz
Total Input Power, maximum	900 W @ 50 °C

Remote Electrical Tilt (RET) Information, Electrical

Protocol	3GPP/AISG 2.0 (Single RET)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 Port 3
Internal RET	High band (1) Low band (1)

NHH-65B-R2B

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.9	15	17.7	17.9	18.4	18.7
Beamwidth, Horizontal, degrees	65	60	71	69	64	57
Beamwidth, Vertical, degrees	12.4	11.2	5.7	5.2	4.9	4.6
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	0–7
USLS (First Lobe), dB	13	14	18	18	19	18
Front-to-Back Ratio at 180°, dB	30	29	31	30	29	31
Isolation, Cross Polarization, dB	25	25	25	25	25	25
Isolation, Inter-band, dB	30	30	30	30	30	30
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port at 50° C, maximum, watts	300	300	300	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.5	14.5	17.3	17.7	18.1	18.5
Gain by all Beam Tilts Tolerance, dB	±0.6	±1.1	±0.4	±0.4	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0° 14.4 7° 14.6 14° 14.3	0° 14.7 7° 14.7 14° 14.1	0° 17.2 4° 17.3 7° 17.3	0° 17.6 4° 17.7 7° 17.7	0° 18.0 4° 18.2 7° 18.1	0° 18.3 4° 18.5 7° 18.6
Beamwidth, Horizontal Tolerance, degrees	±2	±2.1	±3	±4.1	±6.5	±2.9
Beamwidth, Vertical Tolerance, degrees	±0.7	±0.7	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	13	14	16	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	23	22	27	27	25	25
CPR at Boresight, dB	22	21	23	23	22	19
CPR at Sector, dB	10	7	16	13	11	4

Material Specifications

Radiator Material

Low loss circuit board

NHH-65B-R2B

Reflector Material Aluminum

Mechanical Specifications

Wind Loading at Velocity, frontal 278.0 N @ 150 km/h | 63.6 lbf @ 150 km/h
Wind Loading at Velocity, lateral 230.0 N @ 150 km/h | 51.7 lbf @ 150 km/h
Wind Loading at Velocity, maximum 120.7 lbf @ 150 km/h | 537.0 N @ 150 km/h
Wind Speed, maximum 241 km/h | 149.75 mph

Packaging and Weights

Width, packed 409 mm | 16.102 in
Depth, packed 299 mm | 11.772 in
Length, packed 1952 mm | 76.85 in
Net Weight, without mounting kit 19.8 kg | 43.651 lb
Weight, gross 32.3 kg | 71.209 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant



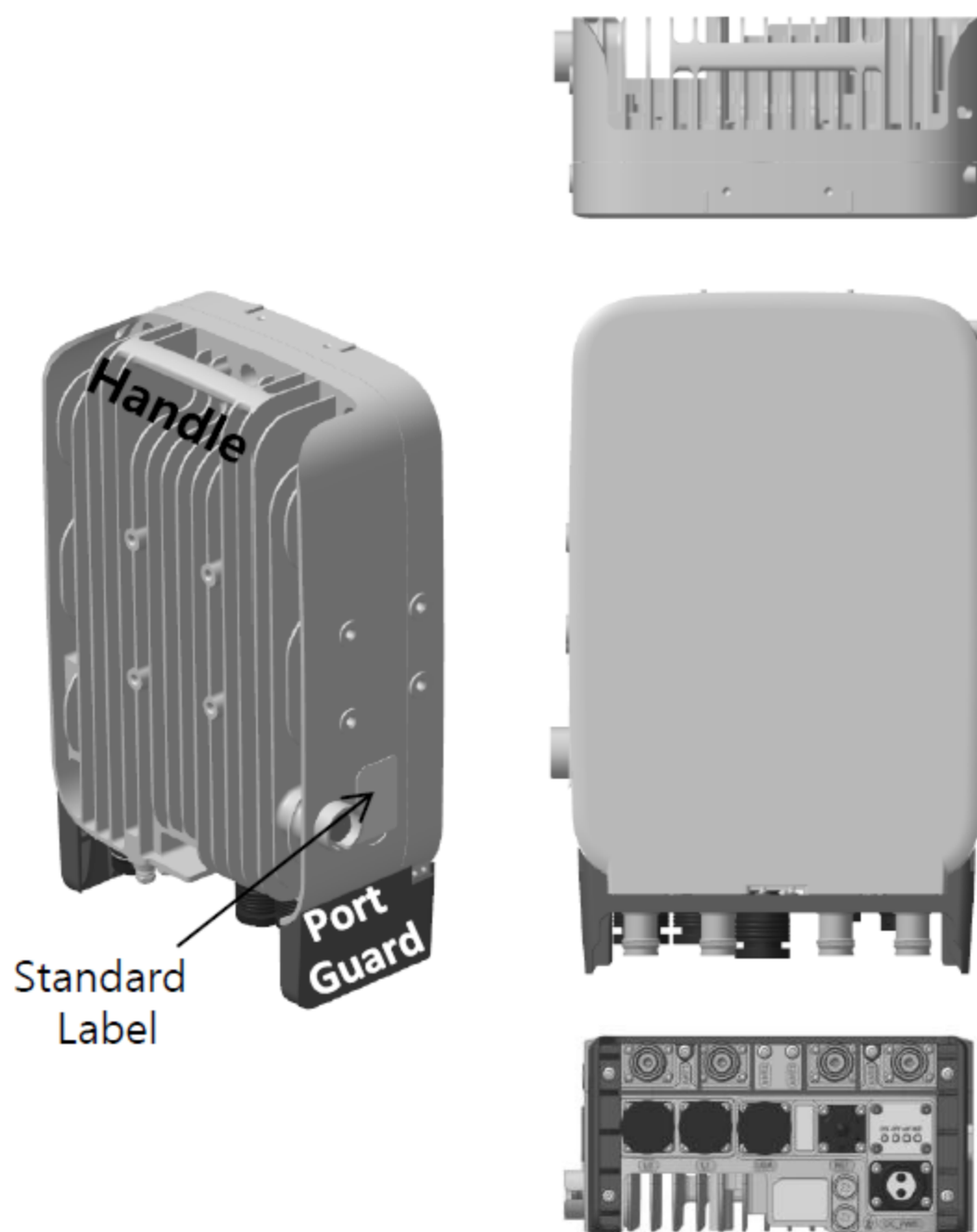
Included Products

BSAMNT-3 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

[CBRS RRH] Spec.

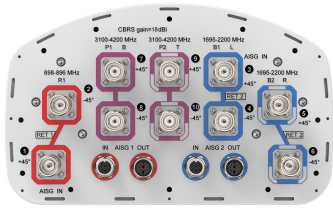


Current Size: 216 x 307 x 105.5 mm (6.99L)
(8.5 x 12.1 x 4.1 inch., excluding Port Guard)

Design is subject to minor change

Item	Specification
Band	Band 48 (3.5 GHz)
Frequency	3550~3700 MHz
IBW	150 MHz
OBW	80 MHz
# of Carriers	5/10/15/20 MHz x 4 carriers
RF Chain	4TX / 4RX
RF Output Power & EIRP	4 path x 5 W (Total: 20 W = 43 dBm) (EIRP: 47 dBm / 10 MHz)
RX Sensitivity	Typical : -101.5 dBm @ 1 Rx (3GPP 36.104, Wide Area)
Modulation	256-QAM support (1024-QAM with 1~2dB power back-off)
Input Power	-48 VDC (-38 to -57 VDC, 1 SKU), with clip-on AC-DC converter (Option)
Power Consumption	About 160 Watt @ 100% RF load, typical conditions
Volume	Under 7L (w/o Antenna), Under 9.6L (with antenna)
Weight	Under 8.0 kg (18.64 lb) (w/o Antenna), Under 10.5 Kg (with ant.)
Operating Temperature	-40°C (-40°F) ~ 55°C (131°F) (W/o solar load)
Cooling	Natural convection
Unwanted Emission	3GPP 36.104 Category A [B48] : FCC 47 CFR 96.41 e)
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP, single mode, duplex or Bi-Di
CPRI Cascade	Not supported
# of Antenna Port	4
External Alarm (UDA)	4
RET	AISG 2.2
TMA & built-in Bias-T I//F and PIM cancellation	Not supported
Mounting Options	Pole, wall, tower, back to back, side by side (for external ant), 3 RRH with Clip-on Antenna on the pole
Antenna Type	Integrated (Clip-on) antenna (Option), External antenna (Option)
NB-IoT	Not Supported (HW Resource reserved for 1 Guard Band NB-IoT per LTE carrier)
Spectrum Analyzer	TX/RX Support
External Alarm (UDA)	4
5G NR	Support with S/W upgrade
XRAN	Support with S/W upgrade

NHHSS-65B-R2BT4



10-port sector antenna, 2x 698–896, 4x 1695–2200 and 4x 3100–4200 MHz, 65° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Perfect antenna to add 3.5GHz CBRS to macro sites
- Low band and mid band performance mirrors the performance of existing NHH hex port antennas
- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x MIMO

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, mid band	4
RF Connector Quantity, low band	2
RF Connector Quantity, total	10

Remote Electrical Tilt (RET) Information

RET Hardware	CommRET v2
RET Interface	4x 8 pin connector as per IEC 60130-9 Daisy chain in: Male / Daisy chain out: Female Pin3: RS485A(AISG_B), Pin5: RS485B(AISG_A), Pin6: DC 10~30V, Pin7: DC_Return

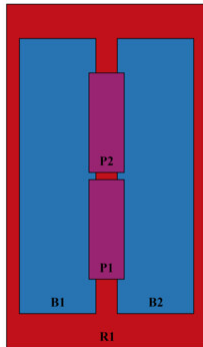
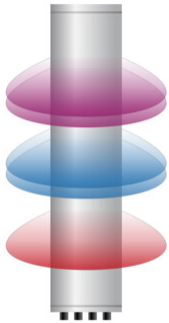
NHHSS-65B-R2BT4

RET Interface, quantity	2 female 2 male
Input Voltage	10–30 Vdc
Internal RET	High band (1) Low band (1)
Power Consumption, active state, maximum	10 W
Power Consumption, idle state, maximum	2 W
Protocol	3GPP/AISG 2.0 (Single RET)

Dimensions

Width	301 mm 11.85 in
Depth	181 mm 7.126 in
Length	1828 mm 71.969 in
Net Weight, without mounting kit	23.1 kg 50.927 lb

Array Layout

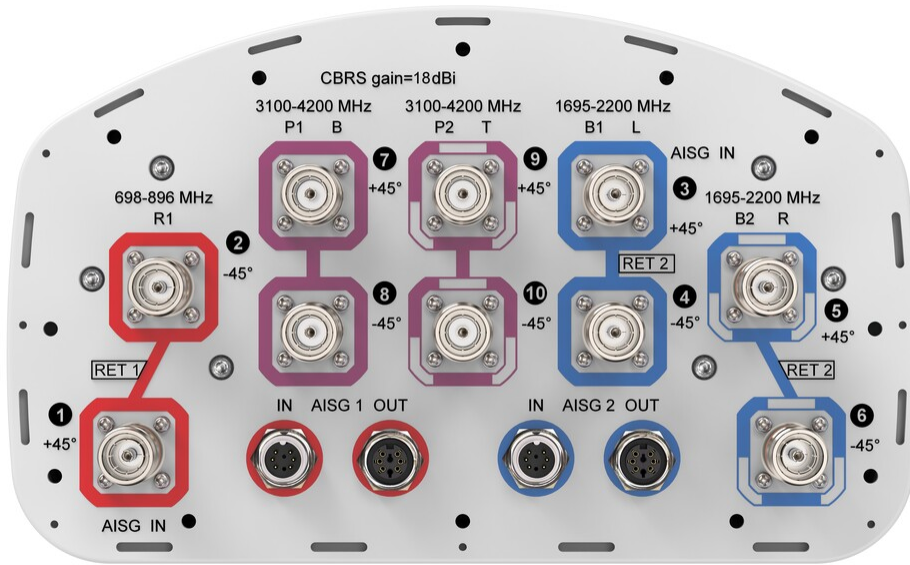


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
B1	1695-2200	3 - 4	2	AISG2	CPxxxxxxxxxxxxxxxxB1
B2	1695-2200	5 - 6			
P1	3100-4200	7 - 8	N/A	NA	N/A
P2	3100-4200	9 - 10			

(Sizes of colored boxes are not true depictions of array sizes)

Port Configuration

NHHSS-65B-R2BT4



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz 3100 – 4200 MHz 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	1,000 W @ 50 °C

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	3100–3550	3550–3700	3700–4200
Gain, dBi	14.8	15.2	17.4	17.8	18	17.7	17.3	17.9
Beamwidth, Horizontal, degrees	65	62	66	61	64	54	64	60
Beamwidth, Vertical, degrees	13	11.6	5.5	5.2	4.9	5.7	5.3	4.9
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	4	4	4
USLS (First Lobe), dB	15	15	16	18	18	16	17	18
Front-to-Back Ratio at 180°, dB	26	29	31	28	27	30	33	29
Isolation, Cross Polarization, dB	25	25	25	25	25	25	25	25
Isolation, Inter-band, dB	25	25	25	25	25	28	28	28
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-140	-140	-140

NHHSS-65B-R2BT4

Input Power per Port at 50°C, maximum, watts	300	300	300	300	300	100	100	100
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Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	3100–3550	3550–3700	3700–4200
Gain by all Beam Tilts, average, dBi	14.6	14.8	17	17.5	17.7	17.3	17	17.2
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6	±0.3	±0.4	±0.6	±0.7	±0.8
Gain by Beam Tilt, average, dBi	0° 14.6 7° 14.6 14° 14.4	0° 15.0 7° 14.9 14° 14.5	0° 16.9 3° 17.0 7° 16.8	0° 17.4 3° 17.5 7° 17.4	0° 17.5 3° 17.8 7° 17.6			
Beamwidth, Horizontal Tolerance, degrees	±1.7	±1.3	±7.2	±3.1	±6.2	±10	±6.7	±10.5
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.8	±0.2	±0.2	±0.4	±0.4	±0.3	±0.4
USLS, beampeak to 20° above beampeak, dB	18	16	14	15	17	14		
Front-to-Back Total Power at 180° ± 30°, dB	22	25	25	25	24	26	25	24
CPR at Boresight, dB	24	17	16	21	19	15	17	14
CPR at Sector, dB	12	6	11	10	8	8	9	7

Mechanical Specifications

Wind Loading @ Velocity, frontal	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	287.0 N @ 150 km/h (64.5 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	1973 mm 77.677 in
Depth, packed	441 mm 17.362 in
Length, packed	337 mm 13.268 in
Weight, gross	35.1 kg 77.382 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value

NHHSS-65B-R2BT4

ROHS

Compliant/Exempted



Included Products

- BSAMNT-3 – Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

- Performance Note** Severe environmental conditions may degrade optimum performance

ATTACHMENT 3

	General	Power	Density					
Site Name: Marlborough E								
Tower Height: Verizon @ 167ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.EXP.	FRACTION MPE	Total
*Sprint	1	377	155.4	850	0.0061	0.5667	0.11%	
*Sprint	2	942	155.4	850	0.0304	0.5667	0.54%	
*Sprint	5	512	155.4	1900	0.0412	1	0.41%	
*Sprint	2	1280	155.4	1900	0.0412	1	0.41%	
*Sprint	8	778	155.4	2500	0.1003	1	1.00%	
*Pocket (now MetroPCS)	3	631	110	2130	0.0629	1	0.63%	
*T-Mobile	4	1265	130	1900	0.1183	1	1.18%	
*T-Mobile	1	474	130	1900	0.0111	1	0.11%	
*T-Mobile	2	789	130	600	0.0369	0.4	0.92%	
*T-Mobile	2	433	130	700	0.0203	0.4667	0.43%	
*AT&T	2	565	145	880	0.021	0.5867	0.36%	
*AT&T	2	875	145	1900	0.0326	1	0.33%	
*AT&T	1	283	145	880	0.0053	0.5867	0.09%	
*AT&T	4	525	145	1900	0.0391	1	0.39%	
*AT&T	1	1313	145	734	0.0244	0.4893	0.50%	
VZW 700	4	689	167	751	0.0036	0.5007	0.71%	
VZW CDMA	2	428	167	877.26	0.0011	0.5848	0.19%	
VZW Cellular	4	700	167	874	0.0036	0.5827	0.62%	
VZW PCS	4	1500	167	1975	0.0077	1.0000	0.77%	
VZW AWS	4	1496	167	2120	0.0077	1.0000	0.77%	
VZW CBRS	4	116	167	3530	0.0006	1.0000	0.06%	
VZW CBAND	2	21627	167	3730.08	0.0558	1.0000	5.58%	
								16.11%
* Source: Siting Council								

ATTACHMENT 4



Tower Engineering Solutions

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

Structural Analysis Report

Existing 170 ft TransAmerican Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT13062-A

Customer Site Name: Marlborough

Carrier Name: Verizon (App#: 171331, V2)

Carrier Site ID / Name: 468156 / Marlborough East CT

Site Location: 175 South Main Street

Marlborough, Connecticut

Hartford County

Latitude: 41.615961

Longitude: -72.436427

Exp. 1/31/2022



11/01/2021

Analysis Result:

Max Structural Usage: 91.8% [Pass]

Max Foundation Usage: 41.0% [Pass]

Additional Usage Caused by Mount Modification :

Report Prepared By : Linfeng Chen



Tower Engineering Solutions

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

Structural Analysis Report

Existing 170 ft TransAmerican Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT13062-A

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Carrier Site ID / Name: 468156 / Marlborough East CT

Site Location: 175 South Main Street

Marlborough, Connecticut

Hartford County

Latitude: 41.615961

Longitude: -72.436427

Analysis Result:

Max Structural Usage: 91.8% [Pass]

Max Foundation Usage: 41.0% [Pass]

Additional Usage Caused by Mount Modification :

Report Prepared By : Linfeng Chen

Introduction

The purpose of this report is to summarize the analysis results on the 170 ft TransAmerican Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Paul J. Ford and Company, Job #44404-0628 date November 9, 2004
Foundation Drawing	Paul J. Ford and Company, Job #44404-0628 date November 9, 2004
Geotechnical Report	Jaworski Geotech, Inc., Project #04316G dated August 31, 2004
Modification Drawings	
Mount Analysis	Maser Consulting Connecticut Project #: 21777059A, Post Modification MA, Dated 10 07 Maser Consulting Connecticut Project #: 21777059A, Mount Modification Drawing, Dated 09/16/21

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA- In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 127.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 98.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Antel BXA-171063-8BF - Panel	Low Profile Platform		Verizon
			Antel BXA-171085-12BF - Panel			
			Antel BXA-70063-6CF - Panel			
			Antel BXA-70080-6CF - Panel			
			RFS FD9R60024/2C-3L Diplexers			
			Antel LPA-80063/4CF - Panel			
			Antel LPA-80080/6CF - Panel			
			RFS APXVTM14-C-120 - Panel	Platform w/ Handrail SitePro Modification Kits:	(4) 1 1/4" Fiber	Sprint Nextel
			Commscope NNVV-65B-R4 - Panel			
			ALU 1900 Mhz RRH			
			ALU 800 Mhz RRH			
			ALU TD-RRH8x20-25			
			Powerwave 7770 - Panel	Low Profile Platform	(1) Fiber	Cingular
			KMW AM-X-CD-17-65-00T - Panel			
		1	Raycap DC6-48-60-18-8F – Surge Arrestor			
			Powerwave LGP21401 TMA			
			Ericsson RRUS-11 –			
				(3) T-Arm	Coax Fiber	T-Mobile
			Ericsson KRY 112 489/2			
			Ericsson KRY 112 144/1			
			Ericsson Radio 4449 B71+B12			
				Direct		Sprint Nextel*

* Line is considered outside of pole

Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Samsung MT6407-77A - Panel	Modified Low Profile Platform Support Rail Kit	Hybrid	Verizon
			Commscope NHH-65B-R2B - Panel			
		3	Commscope NHHSS-65B-R2BT0 - Panel			
			Amphenol BXA-70063-6CF - Panel			
			Amphenol BXA-70080-6CF-EDIN-X - Panel			
			Samsung RF4439d-25A RRU	Mounting Pipes		
			Samsung RF4440d-13A RRU			
			Samsung RT4401-48A RRU			

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

Analysis Results

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

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

Foundations

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

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.4579 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

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

The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of . In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, should be notified in writing and the applicable minimum values provided by the client.

The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

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

Usage Diagram - Max Ratio 68.21% at 50.0ft

Structure: CT13062-A-SBA
Site Name: Marlborough
Height: 170.00 (ft)
Base Elev: 0.000 (ft)

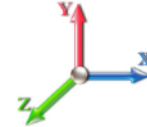
Code: EIA/TIA-222-G
Exposure: B
Gh: 1.1

11/1/2021
 Page: 1



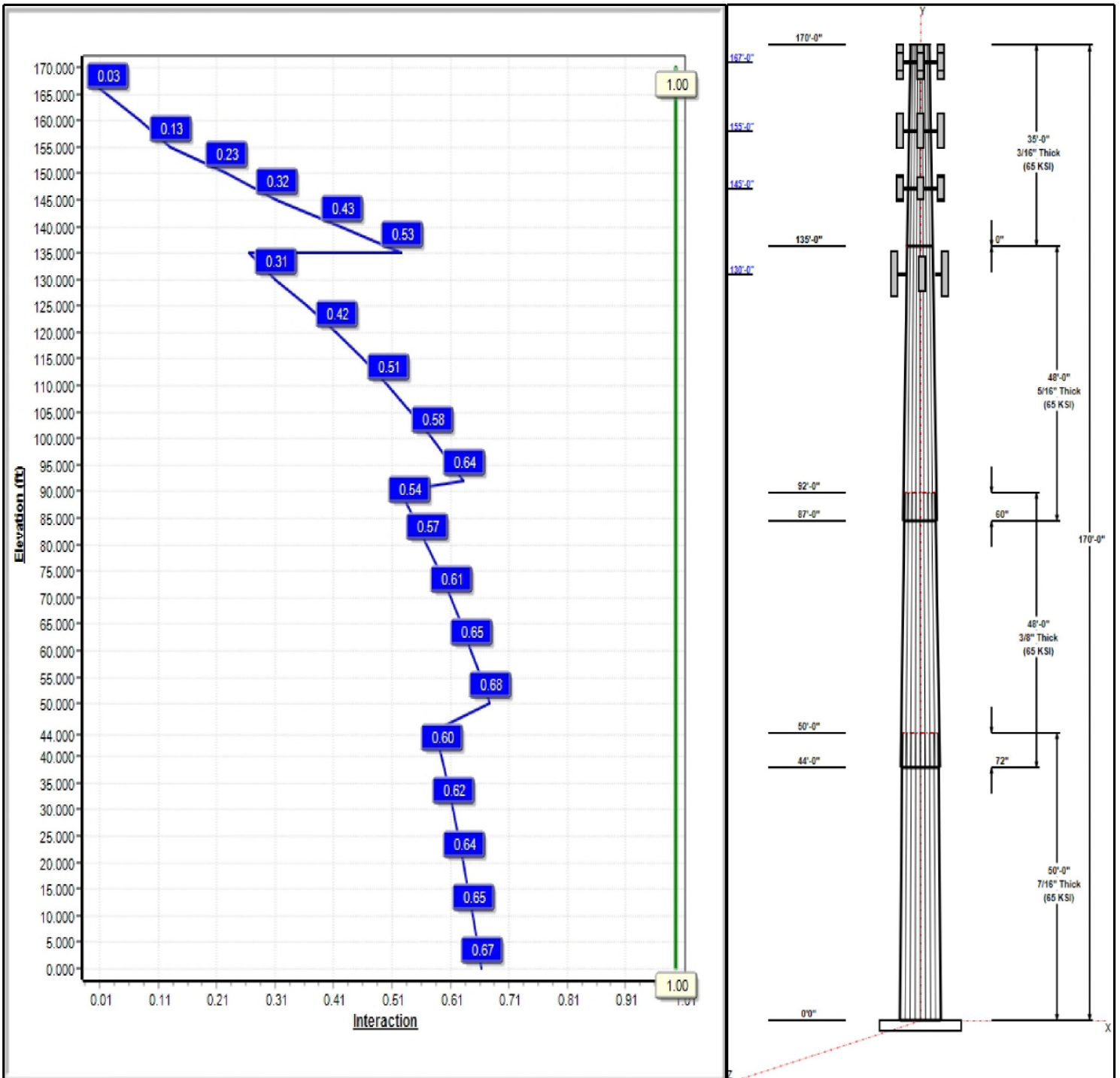
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 98 mph Wind



Iterations: 25

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Structure: CT13062-A-SBA

Type: Tapered
Site Name: Marlborough
Height: 170.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.19338

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Shaft Properties

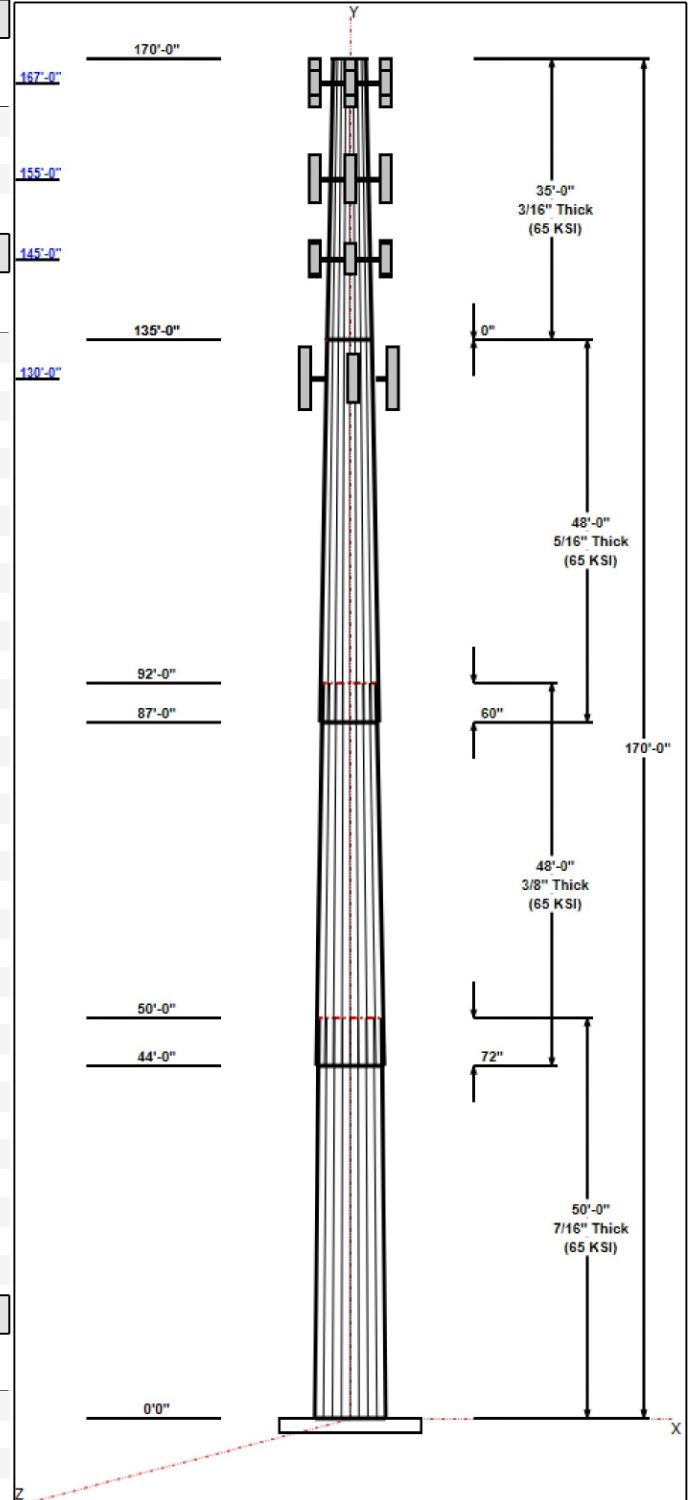
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	50.00	45.83	55.50	0.438		0.19338	65
2	48.00	38.46	47.74	0.375	Slip	0.19338	65
3	48.00	30.77	40.05	0.313	Slip	0.19338	65
4	35.00	24.00	30.77	0.188	Butt	0.19338	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
167.00	167.00	1	Low Profile Platform	Verizon
167.00	167.00	3	Samsung MT6407-77A	Verizon
167.00	167.00	3	Commscope	Verizon
167.00	167.00	3	Commscope	Verizon
167.00	167.00	2	Amphenol BXA-70063-6CF	Verizon
167.00	167.00	1	Amphenol	Verizon
167.00	167.00	3	Samsung RF4439d-25A	Verizon
167.00	167.00	3	Samsung RF4440d-13A	Verizon
167.00	167.00	3	Samsung RT4401-48A	Verizon
167.00	167.00	2	RFS DB-B1-6C-12AB-0Z	Verizon
167.00	167.00	1	Mod	Verizon
155.00	155.00	3	1900MHz RRH (65MHz)	Sprint Nextel
155.00	155.00	6	800 MHz RRH	Sprint Nextel
155.00	155.00	3	TD-RRH8x20-25	Sprint Nextel
155.00	155.00	1	Low Profile Platform-flat	Sprint Nextel
155.00	155.00	3	APXVTM14-C-I20	Sprint Nextel
155.00	155.00	3	NNVV-65B-R4	Sprint Nextel
155.00	155.00	1	PRK-1245 (kicker kit)	Sprint Nextel
155.00	155.00	1	HRK14	Sprint Nextel
155.00	155.00	1	(3) SFS-H-L (V-Braces)	Sprint Nextel
145.00	145.00	1	Low Profile Platform-flat	Cingular
145.00	145.00	3	AM-X-CD-17-65-00T-RET	Cingular
145.00	145.00	6	7770.00	Cingular
145.00	145.00	6	LGP21401	Cingular
145.00	145.00	6	RRUS-11	Cingular
145.00	145.00	1	DC6-48-60-18-8F	Cingular
130.00	130.00	3	T-Arm (Flat)	T-Mobile
130.00	130.00	2	Ericsson KRY 112 489/2	T-Mobile
130.00	130.00	2	APXVAARR24_43-U-NA20	T-Mobile
130.00	130.00	2	KRY 112 144/1	T-Mobile
130.00	130.00	2	Radio 4449 B71+B12	T-Mobile
130.00	130.00	7	APX18-206517S-C-ACU	T-Mobile
50.00	50.00	1	GPS	Sprint Nextel

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	167.00	Inside	1 5/8" Coax	Verizon
0.00	167.00	Inside	1 5/8" Hybrid	Verizon
0.00	155.00	Inside	1 1/4" Fiber	Sprint
0.00	145.00	Inside	1 5/8" Coax	Cingular
0.00	145.00	Inside	DC	Cingular
0.00	145.00	Inside	Fiber	Verizon
0.00	130.00	Inside	1 1/4" Coax	T-Mobile
0.00	130.00	Inside	1 5/8" Fiber	T-Mobile
0.00	110.00	Inside	1 5/8" Coax	Metro PCS



Structure: CT13062-A-SBA

Type: Tapered
Site Name: Marlborough
Height: 170.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.19338

11/1/2021

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0.00 50.00 Outside 1/2" Coax Sprint

Anchor Bolts

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

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.7500	69.0	60.0	Round

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 98 mph Wind	3928.9	30.9	52.6
0.9D + 1.6W 98 mph Wind	3878.2	30.9	39.5
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1098.6	8.6	80.3
1.2D + 1.0E	248.7	1.9	52.7
0.9D + 1.0E	245.3	1.9	39.5
1.0D + 1.0W 60 mph Wind	913.9	7.2	43.9

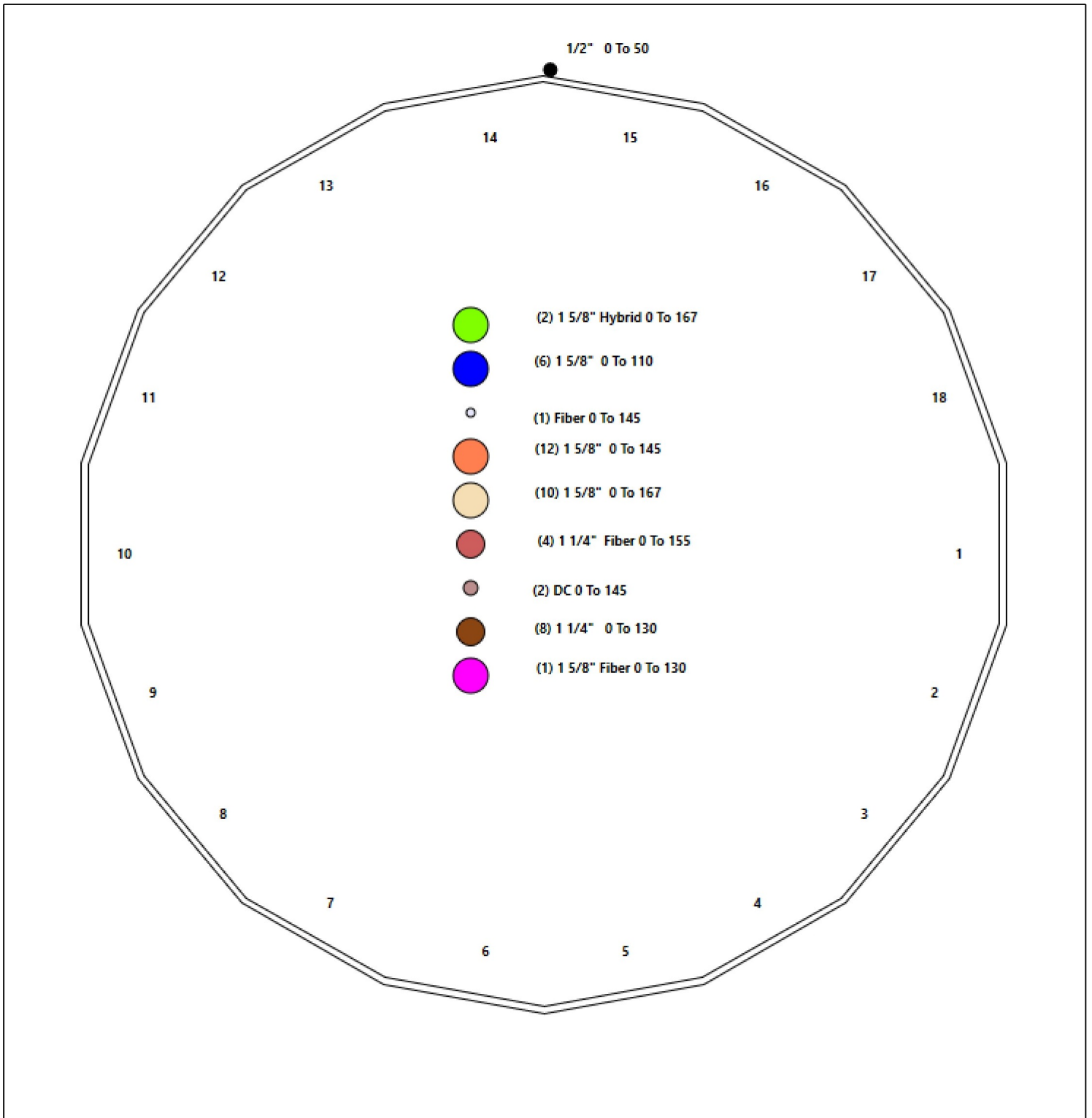
Structure: CT13062-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Marlborough
Height: 170.00 (ft)

11/1/2021



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Shaft Properties

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	50.000	0.4375	65		0.00	11,866
2	18	48.000	0.3750	65	Slip	72.00	8,306
3	18	48.000	0.3125	65	Slip	60.00	5,686
4	18	35.000	0.1875	65	Flange	0.00	1,928
Total Shaft Weight:							27,785

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	55.50	0.00	76.46	29288.03	20.96	126.86	45.83	50.00	63.03	16409.6	17.06	104.7	0.193382
2	47.74	44.00	56.38	15980.14	21.04	127.31	38.46	92.00	45.33	8306.10	16.67	102.5	0.193382
3	40.05	87.00	39.41	7863.58	21.19	128.16	30.77	135.00	30.21	3540.04	15.95	98.46	0.193382
4	30.77	135.0	18.20	2150.28	27.52	164.10	24.00	170.00	14.17	1015.22	21.16	128.0	0.193382

Load Summary

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	167.00	Low Profile Platform	1	1200.00	25.00	1.00	2258.43	46.169	1.00	0.00	0.00
2	167.00	Samsung MT6407-77A	3	79.40	4.69	0.70	200.51	5.648	0.70	0.00	0.00
3	167.00	Commscope NHH-65B-R2B	3	43.70	8.08	0.83	247.90	9.387	0.83	0.00	0.00
4	167.00	Commscope NHHSS-65B-R2BT0	3	48.00	8.08	0.83	252.20	9.387	0.83	0.00	0.00
5	167.00	Amphenol BXA-70063-6CF	2	17.00	7.57	0.70	160.24	10.364	0.70	0.00	0.00
6	167.00	Amphenol BXA-70080-6CF-EDIN-X	1	18.00	5.76	1.00	146.05	8.158	1.00	0.00	0.00
7	167.00	Samsung RF4439d-25A RRU	3	84.40	1.87	0.67	161.99	2.450	0.67	0.00	0.00
8	167.00	Samsung RF4440d-13A RRU	3	70.30	1.87	0.67	140.60	2.450	0.67	0.00	0.00
9	167.00	Samsung RT4401-48A RRU	3	23.10	1.54	0.67	76.35	2.073	0.67	0.00	0.00
10	167.00	RFS DB-B1-6C-12AB-0Z	2	27.00	3.07	0.90	134.86	3.796	0.90	0.00	0.00
11	167.00	Mod	1	430.00	8.75	1.00	945.81	17.394	1.00	0.00	0.00
12	155.00	1900MHz RRH (65MHz)	3	60.00	2.77	0.88	143.71	4.043	0.88	0.00	0.00
13	155.00	800 MHz RRH	6	53.00	2.49	0.92	127.20	3.638	0.92	0.00	0.00
14	155.00	TD-RRH8x20-25	3	70.00	4.05	0.69	180.90	4.866	0.69	0.00	0.00
15	155.00	Low Profile Platform-flat	1	1505.00	25.00	1.00	2822.59	46.011	1.00	0.00	0.00
16	155.00	APXVTM14-C-I20	3	56.20	6.34	0.78	217.24	7.457	0.81	0.00	0.00
17	155.00	NNVV-65B-R4	3	77.40	12.27	0.73	363.90	13.731	0.76	0.00	0.00
18	155.00	PRK-1245 (kicker kit)	1	464.91	9.50	1.00	790.52	19.480	1.00	0.00	0.00
19	155.00	HRK14	1	302.36	8.13	1.00	662.36	16.102	1.00	0.00	0.00
20	155.00	(3) SFS-H-L (V-Braces)	1	230.00	6.70	1.00	552.17	13.739	1.00	0.00	0.00
21	145.00	Low Profile Platform-flat	1	1200.00	25.00	1.00	2243.59	45.872	1.00	0.00	0.00
22	145.00	AM-X-CD-17-65-00T-RET	3	30.80	5.00	0.75	142.42	6.868	0.75	0.00	0.00
23	145.00	7770.00	6	35.00	5.50	0.73	169.61	6.561	0.73	0.00	0.00
24	145.00	LGP21401	6	14.10	1.29	0.75	39.02	2.123	0.75	0.00	0.00
25	145.00	RRUS-11	6	55.00	4.42	0.68	144.65	5.915	0.68	0.00	0.00
26	145.00	DC6-48-60-18-8F	1	31.80	1.47	0.75	93.42	2.167	0.75	0.00	0.00
27	130.00	T-Arm (Flat)	3	400.00	10.00	0.75	675.27	18.602	0.75	0.00	0.00
28	130.00	Ericsson KRY 112 489/2	2	15.40	0.65	1.00	32.77	1.253	1.00	0.00	0.00
29	130.00	APXVAARR24_43-U-NA20	2	128.00	20.24	0.70	539.25	22.112	0.70	0.00	0.00
30	130.00	KRY 112 144/1	2	11.00	0.41	1.00	21.63	0.878	1.00	0.00	0.00
31	130.00	Radio 4449 B71+B12	2	71.00	1.97	0.67	123.62	2.510	0.67	0.00	0.00
32	130.00	APX18-206517S-C-ACU	7	21.00	5.27	0.73	137.98	6.492	0.73	0.00	0.00
33	50.00	GPS	1	10.00	1.00	1.00	36.27	1.638	1.00	0.00	0.00
Totals:			89	10,150.37			24,833.66				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	167.00	(10) 1 5/8" Coax	0.00	Inside
0.00	167.00	(2) 1 5/8" Hybrid	0.00	Inside
0.00	155.00	(4) 1 1/4" Fiber	0.00	Inside
0.00	145.00	(12) 1 5/8" Coax	0.00	Inside
0.00	145.00	(2) DC	0.00	Inside
0.00	145.00	(1) Fiber	0.00	Inside
0.00	130.00	(8) 1 1/4" Coax	0.00	Inside
0.00	130.00	(1) 1 5/8" Fiber	0.00	Inside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
0.00	110.00	(6) 1 5/8" Coax		0.00		Inside					
0.00	50.00	(1) 1/2" Coax		0.65		Outside					

Shaft Section Properties

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in ³)	Weight (lb)
0.00		0.4375	55.500	76.458	29288.0	20.96	126.86	76.8	1039.	0.0
5.00		0.4375	54.533	75.116	27772.1	20.57	124.65	77.2	1003.	1289.4
10.00		0.4375	53.566	73.773	26309.3	20.18	122.44	77.7	967.4	1266.6
15.00		0.4375	52.599	72.431	24898.8	19.79	120.23	78.1	932.4	1243.7
20.00		0.4375	51.632	71.088	23539.7	19.40	118.02	78.6	898.0	1220.9
25.00		0.4375	50.665	69.745	22231.0	19.01	115.81	79.0	864.2	1198.1
30.00		0.4375	49.699	68.403	20971.7	18.62	113.60	79.5	831.1	1175.2
35.00		0.4375	48.732	67.060	19760.8	18.23	111.39	80.0	798.7	1152.4
40.00		0.4375	47.765	65.717	18597.5	17.84	109.18	80.4	766.9	1129.5
44.00	Bot - Section 2	0.4375	46.991	64.643	17700.5	17.53	107.41	80.8	741.9	887.2
45.00		0.4375	46.798	64.375	17480.8	17.45	106.97	80.9	735.7	411.0
50.00	Top - Section 1	0.3750	46.581	54.995	14834.3	20.49	124.22	0.0	0.0	2029.3
55.00		0.3750	45.614	53.844	13922.4	20.04	121.64	77.8	601.2	925.9
60.00		0.3750	44.647	52.693	13048.6	19.58	119.06	78.4	575.6	906.3
65.00		0.3750	43.680	51.542	12212.2	19.13	116.48	78.9	550.7	886.7
70.00		0.3750	42.713	50.391	11412.3	18.67	113.90	79.4	526.3	867.1
75.00		0.3750	41.746	49.240	10648.1	18.22	111.32	80.0	502.4	847.6
80.00		0.3750	40.779	48.090	9918.9	17.76	108.75	80.5	479.1	828.0
85.00		0.3750	39.813	46.939	9223.7	17.31	106.17	81.0	456.3	808.4
87.00	Bot - Section 3	0.3750	39.426	46.478	8955.0	17.13	105.14	81.3	447.4	317.9
90.00		0.3750	38.846	45.788	8561.7	16.85	103.59	81.6	434.1	870.4
92.00	Top - Section 2	0.3125	39.084	38.455	7303.4	20.64	125.07	0.0	0.0	573.1
95.00		0.3125	38.504	37.880	6980.5	20.31	123.21	77.5	357.1	389.6
100.00		0.3125	37.537	36.920	6463.6	19.77	120.12	78.1	339.2	636.3
105.00		0.3125	36.570	35.961	5972.9	19.22	117.02	78.8	321.7	620.0
110.00		0.3125	35.603	35.002	5507.6	18.68	113.93	79.4	304.7	603.7
115.00		0.3125	34.636	34.043	5067.2	18.13	110.84	80.1	288.2	587.4
120.00		0.3125	33.669	33.084	4650.9	17.59	107.74	80.7	272.1	571.1
125.00		0.3125	32.702	32.125	4258.1	17.04	104.65	81.4	256.5	554.7
130.00		0.3125	31.735	31.166	3888.0	16.50	101.55	82.0	241.3	538.4
135.00	Top - Section 3	0.3125	30.768	30.207	3540.0	15.95	98.46	82.5	226.6	522.1
135.00	Bot - Section 4	0.1875	30.768	18.199	2150.3	26.58	164.10	69.0	137.6	
140.00		0.1875	29.801	17.623	1952.7	26.62	158.94	70.1	129.1	304.7
145.00		0.1875	28.835	17.048	1767.6	25.71	153.78	71.2	120.7	294.9
150.00		0.1875	27.868	16.473	1594.6	24.80	148.63	72.2	112.7	285.2
155.00		0.1875	26.901	15.897	1433.3	23.89	143.47	73.3	104.9	275.4
160.00		0.1875	25.934	15.322	1283.2	22.98	138.31	74.4	97.5	265.6
165.00		0.1875	24.967	14.746	1144.0	22.07	133.16	75.4	90.2	255.8
167.00		0.1875	24.580	14.516	1091.2	21.70	131.09	75.9	87.4	99.6
170.00		0.1875	24.000	14.171	1015.2	21.16	128.00	76.5	83.3	146.4

27785.5

Wind Loading - Shaft

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 9
	Struct Class: II	



Load Case: 1.2D + 1.6W 98 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	16.350	17.98	385.07	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	16.350	17.98	378.36	0.650	0.000	5.00	23.277	15.13	435.4	0.0	1547.3
10.00		1.00	0.70	16.350	17.98	371.65	0.650	0.000	5.00	22.868	14.86	427.7	0.0	1519.9
15.00		1.00	0.70	16.350	17.98	364.94	0.650	0.000	5.00	22.459	14.60	420.1	0.0	1492.5
20.00		1.00	0.70	16.350	17.98	358.23	0.650	0.000	5.00	22.050	14.33	412.4	0.0	1465.1
25.00		1.00	0.70	16.350	17.98	351.52	0.650	0.000	5.00	21.641	14.07	404.8	0.0	1437.7
30.00		1.00	0.70	16.364	18.00	344.96	0.650	0.000	5.00	21.232	13.80	397.5	0.0	1410.3
35.00		1.00	0.73	17.100	18.81	345.78	0.650	0.000	5.00	20.823	13.53	407.4	0.0	1382.8
40.00		1.00	0.76	17.765	19.54	345.45	0.650	0.000	5.00	20.414	13.27	414.9	0.0	1355.4
44.00	Bot - Section 2	1.00	0.78	18.256	20.08	344.51	0.650	0.000	4.00	16.036	10.42	334.9	0.0	1064.6
45.00		1.00	0.79	18.374	20.21	344.20	0.650	0.000	1.00	4.032	2.62	84.7	0.0	493.1
50.00	Top - Section 1	1.00	0.81	18.935	20.83	342.20	0.650	0.000	5.00	19.913	12.94	431.3	0.0	2435.2
55.00		1.00	0.83	19.458	21.40	345.25	0.650	0.000	5.00	19.504	12.68	434.1	0.0	1111.1
60.00		1.00	0.85	19.948	21.94	342.15	0.650	0.000	5.00	19.094	12.41	435.7	0.0	1087.6
65.00		1.00	0.87	20.409	22.45	338.59	0.650	0.000	5.00	18.685	12.15	436.3	0.0	1064.1
70.00		1.00	0.89	20.846	22.93	334.62	0.650	0.000	5.00	18.276	11.88	435.8	0.0	1040.6
75.00		1.00	0.91	21.261	23.39	330.29	0.650	0.000	5.00	17.867	11.61	434.6	0.0	1017.1
80.00		1.00	0.93	21.656	23.82	325.63	0.650	0.000	5.00	17.458	11.35	432.5	0.0	993.6
85.00		1.00	0.94	22.035	24.24	320.67	0.650	0.000	5.00	17.049	11.08	429.8	0.0	970.1
87.00	Bot - Section 3	1.00	0.95	22.182	24.40	318.61	0.650	0.000	2.00	6.705	4.36	170.1	0.0	381.5
90.00		1.00	0.96	22.398	24.64	315.45	0.650	0.000	3.00	10.094	6.56	258.6	0.0	1044.4
92.00	Top - Section 2	1.00	0.96	22.539	24.79	313.29	0.650	0.000	2.00	6.647	4.32	171.4	0.0	687.7
95.00		1.00	0.97	22.746	25.02	315.10	0.650	0.000	3.00	9.848	6.40	256.3	0.0	467.5
100.00		1.00	0.99	23.082	25.39	309.44	0.650	0.000	5.00	16.086	10.46	424.8	0.0	763.6
105.00		1.00	1.00	23.406	25.75	303.58	0.650	0.000	5.00	15.677	10.19	419.8	0.0	744.0
110.00		1.00	1.02	23.719	26.09	297.52	0.650	0.000	5.00	15.268	9.92	414.3	0.0	724.4
115.00		1.00	1.03	24.022	26.42	291.29	0.650	0.000	5.00	14.859	9.66	408.3	0.0	704.8
120.00		1.00	1.04	24.316	26.75	284.88	0.650	0.000	5.00	14.450	9.39	402.0	0.0	685.3
125.00		1.00	1.05	24.602	27.06	278.32	0.650	0.000	5.00	14.041	9.13	395.2	0.0	665.7
130.00	Appurtenance(s)	1.00	1.07	24.879	27.37	271.61	0.650	0.000	5.00	13.632	8.86	388.0	0.0	646.1
135.00	Top - Section 3	1.00	1.08	25.149	27.66	264.76	0.650	0.000	5.00	13.222	8.59	380.4	0.0	626.5
140.00		1.00	1.09	25.411	27.95	257.77	0.650	0.000	5.00	12.813	8.33	372.5	0.0	365.7
145.00	Appurtenance(s)	1.00	1.10	25.667	28.23	250.66	0.650	0.000	5.00	12.404	8.06	364.2	0.0	353.9
150.00		1.00	1.11	25.917	28.51	243.43	0.650	0.000	5.00	11.995	7.80	355.6	0.0	342.2
155.00	Appurtenance(s)	1.00	1.12	26.161	28.78	236.09	0.650	0.000	5.00	11.586	7.53	346.8	0.0	330.4
160.00		1.00	1.13	26.399	29.04	228.64	0.650	0.000	5.00	11.177	7.27	337.6	0.0	318.7
165.00		1.00	1.14	26.633	29.30	221.08	0.650	0.000	5.00	10.768	7.00	328.1	0.0	306.9
167.00	Appurtenance(s)	1.00	1.14	26.724	29.40	218.03	0.650	0.000	2.00	4.193	2.73	128.2	0.0	119.5
170.00		1.00	1.15	26.861	29.55	213.43	0.650	0.000	3.00	6.166	4.01	189.5	0.0	175.7
Totals:									170.00			13,721.4	33,342.5	

Discrete Appurtenance Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

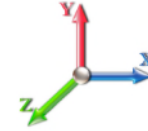


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Load Case: 1.2D + 1.6W 98 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	167.00	Amphenol	2	26.724	29.397	0.63	0.90	9.54	40.80	0.000	0.000	448.63	0.00	0.00
2	167.00	Low Profile Platform	1	26.724	29.397	1.00	1.00	25.00	1440.00	0.000	0.000	1175.87	0.00	0.00
3	167.00	Samsung MT6407-77A	3	26.724	29.397	0.63	0.90	8.86	285.84	0.000	0.000	416.92	0.00	0.00
4	167.00	Commscope	3	26.724	29.397	0.75	0.90	18.11	157.32	0.000	0.000	851.67	0.00	0.00
5	167.00	Commscope	3	26.724	29.397	0.75	0.90	18.11	172.80	0.000	0.000	851.67	0.00	0.00
6	167.00	Mod	1	26.724	29.397	1.00	1.00	8.75	516.00	0.000	0.000	411.56	0.00	0.00
7	167.00	Amphenol	1	26.724	29.397	1.00	1.00	5.76	21.60	0.000	0.000	270.92	0.00	0.00
8	167.00	Samsung RF4439d-25A	3	26.724	29.397	0.60	0.90	3.38	303.84	0.000	0.000	159.11	0.00	0.00
9	167.00	Samsung RF4440d-13A	3	26.724	29.397	0.60	0.90	3.38	253.08	0.000	0.000	159.11	0.00	0.00
10	167.00	Samsung RT4401-48A	3	26.724	29.397	0.60	0.90	2.79	83.16	0.000	0.000	131.03	0.00	0.00
11	167.00	RFS DB-B1-6C-12AB-OZ	2	26.724	29.397	0.81	0.90	4.97	64.80	0.000	0.000	233.92	0.00	0.00
12	155.00	(3) SFS-H-L (V-Braces)	1	26.161	28.777	1.00	1.00	6.70	276.00	0.000	0.000	308.49	0.00	0.00
13	155.00	HRK14	1	26.161	28.777	1.00	1.00	8.13	362.83	0.000	0.000	374.33	0.00	0.00
14	155.00	PRK-1245 (kicker kit)	1	26.161	28.777	1.00	1.00	9.50	557.89	0.000	0.000	437.41	0.00	0.00
15	155.00	NNVV-65B-R4	3	26.161	28.777	0.55	0.75	20.15	278.64	0.000	0.000	927.93	0.00	0.00
16	155.00	APXVTM14-C-I20	3	26.161	28.777	0.58	0.75	11.13	202.32	0.000	0.000	512.31	0.00	0.00
17	155.00	Low Profile Platform-flat	1	26.161	28.777	1.00	1.00	25.00	1806.00	0.000	0.000	1151.09	0.00	0.00
18	155.00	800 MHz RRH	6	26.161	28.777	0.69	0.75	10.31	381.60	0.000	0.000	474.64	0.00	0.00
19	155.00	1900MHz RRH (65MHz)	3	26.161	28.777	0.66	0.75	5.48	216.00	0.000	0.000	252.53	0.00	0.00
20	155.00	TD-RRH8x20-25	3	26.161	28.777	0.52	0.75	6.29	252.00	0.000	0.000	289.50	0.00	0.00
21	145.00	7770.00	6	25.667	28.234	0.73	1.00	24.09	252.00	0.000	0.000	1088.25	0.00	0.00
22	145.00	Low Profile Platform-flat	1	25.667	28.234	1.00	1.00	25.00	1440.00	0.000	0.000	1129.36	0.00	0.00
23	145.00	AM-X-CD-17-65-00T-RET	3	25.667	28.234	0.75	1.00	11.25	110.88	0.000	0.000	508.21	0.00	0.00
24	145.00	LGP21401	6	25.667	28.234	0.75	1.00	5.80	101.52	0.000	0.000	262.24	0.00	0.00
25	145.00	RRUS-11	6	25.667	28.234	0.68	1.00	18.03	396.00	0.000	0.000	814.66	0.00	0.00
26	145.00	DC6-48-60-18-8F	1	25.667	28.234	0.75	1.00	1.10	38.16	0.000	0.000	49.80	0.00	0.00
27	130.00	APX18-206517S-C-ACU	7	24.879	27.367	0.73	1.00	26.93	176.40	0.000	0.000	1179.16	0.00	0.00
28	130.00	Radio 4449 B71+B12	2	24.879	27.367	0.67	1.00	2.64	170.40	0.000	0.000	115.59	0.00	0.00
29	130.00	KRY 112 144/1	2	24.879	27.367	1.00	1.00	0.82	26.40	0.000	0.000	35.91	0.00	0.00
30	130.00	APXVAARR24_43-U-NA2	2	24.879	27.367	0.70	1.00	28.34	307.20	0.000	0.000	1240.74	0.00	0.00
31	130.00	Ericsson KRY 112 489/2	2	24.879	27.367	1.00	1.00	1.30	36.96	0.000	0.000	56.92	0.00	0.00
32	130.00	T-Arm (Flat)	3	24.879	27.367	0.56	0.75	16.88	1440.00	0.000	0.000	738.90	0.00	0.00
33	50.00	GPS	1	18.935	20.829	1.00	1.00	1.00	12.00	0.000	0.000	33.33	0.00	0.00

Totals: 12,180.44

17,091.73

Total Applied Force Summary

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

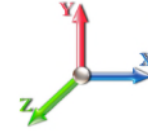


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Load Case: 1.2D + 1.6W 98 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		435.38	1795.48	0.00	0.00
10.00		427.73	1768.07	0.00	0.00
15.00		420.08	1740.66	0.00	0.00
20.00		412.43	1713.24	0.00	0.00
25.00		404.77	1685.83	0.00	0.00
30.00		397.46	1658.42	0.00	0.00
35.00		407.35	1631.01	0.00	0.00
40.00		414.88	1603.60	0.00	0.00
44.00		334.91	1263.14	0.00	0.00
45.00		84.74	542.77	0.00	0.00
50.00	(1) attachments	464.67	2695.33	0.00	0.00
55.00		434.14	1358.26	0.00	0.00
60.00		435.74	1334.76	0.00	0.00
65.00		436.26	1311.27	0.00	0.00
70.00		435.84	1287.77	0.00	0.00
75.00		434.57	1264.27	0.00	0.00
80.00		432.52	1240.78	0.00	0.00
85.00		429.77	1217.28	0.00	0.00
87.00		170.15	480.33	0.00	0.00
90.00		258.62	1192.75	0.00	0.00
92.00		171.39	786.55	0.00	0.00
95.00		256.26	615.87	0.00	0.00
100.00		424.77	1010.78	0.00	0.00
105.00		419.78	991.20	0.00	0.00
110.00		414.29	971.62	0.00	0.00
115.00		408.35	914.60	0.00	0.00
120.00		401.96	895.02	0.00	0.00
125.00		395.16	875.44	0.00	0.00
130.00	(18) attachments	3755.19	3013.22	0.00	0.00
135.00		380.41	798.00	0.00	0.00
140.00		372.49	537.16	0.00	0.00
145.00	(23) attachments	4216.75	2863.98	0.00	0.00
150.00		355.65	433.63	0.00	0.00
155.00	(22) attachments	5074.99	4755.16	0.00	0.00
160.00		337.56	394.29	0.00	0.00
165.00		328.07	382.54	0.00	0.00
167.00	(25) attachments	5238.61	3488.97	0.00	0.00
170.00		189.48	175.71	0.00	0.00
Totals:		30,813.18	52,688.79	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

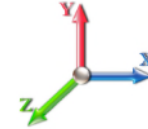


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Load Case: 1.2D + 1.6W 98 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	16.350	0.00	0.96
10.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	16.350	0.00	0.96
15.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	16.350	0.00	0.96
20.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	16.350	0.00	0.96
25.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	16.350	0.00	0.96
30.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	16.364	0.00	0.96
35.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	17.100	0.00	0.96
40.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	17.765	0.00	0.96
44.00	1/2" Coax	Yes	4.00	0.000	0.65	0.22	0.00	0.014	0.000	18.256	0.00	0.77
45.00	1/2" Coax	Yes	1.00	0.000	0.65	0.05	0.00	0.014	0.000	18.374	0.00	0.19
50.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.014	0.000	18.935	0.00	0.96
Totals:											0.0	9.6

Calculated Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

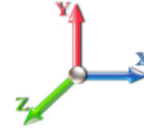


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Load Case: 1.2D + 1.6W 98 mph Wind

Iterations 25

Dead Load Factor 1.20
Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-52.64	-30.90	0.00	-3928.9	0.00	3928.93	5281.41	2640.70	11948.3	5983.04	0.00	0.000	0.000	0.667
5.00	-50.74	-30.63	0.00	-3774.4	0.00	3774.43	5219.65	2609.83	11599.6	5808.42	0.10	-0.187	0.000	0.660
10.00	-48.88	-30.36	0.00	-3621.2	0.00	3621.29	5156.79	2578.39	11253.4	5635.08	0.40	-0.376	0.000	0.652
15.00	-47.04	-30.08	0.00	-3469.5	0.00	3469.51	5092.81	2546.41	10909.9	5463.06	0.89	-0.568	0.000	0.644
20.00	-45.23	-29.80	0.00	-3319.1	0.00	3319.12	5027.73	2513.87	10569.1	5292.44	1.59	-0.762	0.000	0.636
25.00	-43.45	-29.52	0.00	-3170.1	0.00	3170.11	4961.55	2480.77	10231.3	5123.29	2.50	-0.958	0.000	0.628
30.00	-41.69	-29.24	0.00	-3022.5	0.00	3022.51	4894.25	2447.13	9896.64	4955.68	3.61	-1.156	0.000	0.619
35.00	-39.97	-28.94	0.00	-2876.3	0.00	2876.33	4825.85	2412.92	9565.10	4789.66	4.92	-1.356	0.000	0.609
40.00	-38.29	-28.60	0.00	-2731.6	0.00	2731.65	4756.34	2378.17	9236.88	4625.31	6.45	-1.558	0.000	0.599
44.00	-36.98	-28.30	0.00	-2617.2	0.00	2617.25	4699.93	2349.97	8976.79	4495.07	7.83	-1.722	0.000	0.590
45.00	-36.38	-28.27	0.00	-2588.9	0.00	2588.95	4685.72	2342.86	8912.13	4462.69	8.19	-1.764	0.000	0.588
50.00	-33.61	-27.84	0.00	-2447.5	0.00	2447.58	3825.89	1912.95	7262.03	3636.41	10.15	-1.969	0.000	0.682
55.00	-32.16	-27.48	0.00	-2308.3	0.00	2308.37	3771.75	1885.87	7008.23	3509.32	12.32	-2.175	0.000	0.667
60.00	-30.73	-27.12	0.00	-2170.9	0.00	2170.96	3716.49	1858.25	6756.75	3383.40	14.72	-2.404	0.000	0.650
65.00	-29.34	-26.74	0.00	-2035.3	0.00	2035.38	3660.13	1830.06	6507.73	3258.70	17.36	-2.633	0.000	0.633
70.00	-27.97	-26.36	0.00	-1901.6	0.00	1901.67	3602.65	1801.33	6261.29	3135.30	20.24	-2.862	0.000	0.615
75.00	-26.62	-25.96	0.00	-1769.9	0.00	1769.90	3544.08	1772.04	6017.58	3013.26	23.36	-3.091	0.000	0.595
80.00	-25.31	-25.56	0.00	-1640.0	0.00	1640.09	3484.39	1742.19	5776.72	2892.65	26.72	-3.319	0.000	0.574
85.00	-24.05	-25.13	0.00	-1512.2	0.00	1512.28	3423.59	1711.80	5538.85	2773.54	30.31	-3.545	0.000	0.552
87.00	-23.53	-24.97	0.00	-1462.0	0.00	1462.03	3398.97	1699.48	5444.57	2726.33	31.82	-3.637	0.000	0.543
90.00	-22.31	-24.68	0.00	-1387.1	0.00	1387.11	3361.69	1680.85	5304.10	2655.99	34.15	-3.772	0.000	0.529
92.00	-21.49	-24.50	0.00	-1337.7	0.00	1337.75	2669.14	1334.57	4251.41	2128.87	35.75	-3.863	0.000	0.637
95.00	-20.81	-24.27	0.00	-1264.2	0.00	1264.25	2642.32	1321.16	4145.22	2075.69	38.21	-3.997	0.000	0.617
100.00	-19.73	-23.86	0.00	-1142.8	0.00	1142.89	2596.75	1298.37	3969.75	1987.83	42.53	-4.242	0.000	0.583
105.00	-18.68	-23.44	0.00	-1023.5	0.00	1023.59	2550.06	1275.03	3796.28	1900.96	47.10	-4.480	0.000	0.546
110.00	-17.65	-23.02	0.00	-906.38	0.00	906.38	2502.27	1251.14	3624.94	1815.17	51.91	-4.710	0.000	0.507
115.00	-16.69	-22.60	0.00	-791.28	0.00	791.28	2453.37	1226.69	3455.87	1730.50	56.95	-4.929	0.000	0.464
120.00	-15.76	-22.17	0.00	-678.29	0.00	678.29	2403.37	1201.68	3289.20	1647.05	62.22	-5.136	0.000	0.419
125.00	-14.86	-21.75	0.00	-567.41	0.00	567.41	2352.25	1176.13	3125.07	1564.86	67.70	-5.326	0.000	0.369
130.00	-12.16	-17.76	0.00	-458.67	0.00	458.67	2300.03	1150.02	2963.60	1484.00	73.36	-5.497	0.000	0.315
135.00	-11.36	-17.33	0.00	-369.87	0.00	369.87	2244.25	1122.13	2801.87	1403.02	79.20	-5.649	0.000	0.269
135.00	-11.36	-17.33	0.00	-369.87	0.00	369.87	1130.59	565.30	1423.12	712.62	79.20	-5.649	0.000	0.530
140.00	-10.82	-16.94	0.00	-283.21	0.00	283.21	1111.81	555.90	1354.95	678.48	85.18	-5.780	0.000	0.428
145.00	-8.37	-12.47	0.00	-198.53	0.00	198.53	1091.92	545.96	1286.99	644.45	91.32	-5.956	0.000	0.316
150.00	-7.95	-12.09	0.00	-136.17	0.00	136.17	1070.92	535.46	1219.36	610.58	97.62	-6.090	0.000	0.231
155.00	-3.76	-6.54	0.00	-75.73	0.00	75.73	1048.81	524.40	1152.19	576.95	104.04	-6.185	0.000	0.135
160.00	-3.40	-6.16	0.00	-43.03	0.00	43.03	1025.59	512.80	1085.62	543.62	110.54	-6.244	0.000	0.083
165.00	-3.05	-5.80	0.00	-12.21	0.00	12.21	1001.27	500.64	1019.78	510.65	117.09	-6.275	0.000	0.027
167.00	-0.15	-0.21	0.00	-0.62	0.00	0.62	991.23	495.62	993.68	497.58	119.71	-6.278	0.000	0.001
170.00	0.00	-0.19	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	123.65	-6.278	0.000	0.000

Wind Loading - Shaft

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 98 mph Wind

Iterations 25

Dead Load Factor 0.90

Wind Load Factor 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	16.350	17.98	385.07	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	16.350	17.98	378.36	0.650	0.000	5.00	23.277	15.13	435.4	0.0	1160.5
10.00		1.00	0.70	16.350	17.98	371.65	0.650	0.000	5.00	22.868	14.86	427.7	0.0	1139.9
15.00		1.00	0.70	16.350	17.98	364.94	0.650	0.000	5.00	22.459	14.60	420.1	0.0	1119.4
20.00		1.00	0.70	16.350	17.98	358.23	0.650	0.000	5.00	22.050	14.33	412.4	0.0	1098.8
25.00		1.00	0.70	16.350	17.98	351.52	0.650	0.000	5.00	21.641	14.07	404.8	0.0	1078.3
30.00		1.00	0.70	16.364	18.00	344.96	0.650	0.000	5.00	21.232	13.80	397.5	0.0	1057.7
35.00		1.00	0.73	17.100	18.81	345.78	0.650	0.000	5.00	20.823	13.53	407.4	0.0	1037.1
40.00		1.00	0.76	17.765	19.54	345.45	0.650	0.000	5.00	20.414	13.27	414.9	0.0	1016.6
44.00	Bot - Section 2	1.00	0.78	18.256	20.08	344.51	0.650	0.000	4.00	16.036	10.42	334.9	0.0	798.5
45.00		1.00	0.79	18.374	20.21	344.20	0.650	0.000	1.00	4.032	2.62	84.7	0.0	369.9
50.00	Top - Section 1	1.00	0.81	18.935	20.83	342.20	0.650	0.000	5.00	19.913	12.94	431.3	0.0	1826.4
55.00		1.00	0.83	19.458	21.40	345.25	0.650	0.000	5.00	19.504	12.68	434.1	0.0	833.3
60.00		1.00	0.85	19.948	21.94	342.15	0.650	0.000	5.00	19.094	12.41	435.7	0.0	815.7
65.00		1.00	0.87	20.409	22.45	338.59	0.650	0.000	5.00	18.685	12.15	436.3	0.0	798.0
70.00		1.00	0.89	20.846	22.93	334.62	0.650	0.000	5.00	18.276	11.88	435.8	0.0	780.4
75.00		1.00	0.91	21.261	23.39	330.29	0.650	0.000	5.00	17.867	11.61	434.6	0.0	762.8
80.00		1.00	0.93	21.656	23.82	325.63	0.650	0.000	5.00	17.458	11.35	432.5	0.0	745.2
85.00		1.00	0.94	22.035	24.24	320.67	0.650	0.000	5.00	17.049	11.08	429.8	0.0	727.6
87.00	Bot - Section 3	1.00	0.95	22.182	24.40	318.61	0.650	0.000	2.00	6.705	4.36	170.1	0.0	286.1
90.00		1.00	0.96	22.398	24.64	315.45	0.650	0.000	3.00	10.094	6.56	258.6	0.0	783.3
92.00	Top - Section 2	1.00	0.96	22.539	24.79	313.29	0.650	0.000	2.00	6.647	4.32	171.4	0.0	515.8
95.00		1.00	0.97	22.746	25.02	315.10	0.650	0.000	3.00	9.848	6.40	256.3	0.0	350.7
100.00		1.00	0.99	23.082	25.39	309.44	0.650	0.000	5.00	16.086	10.46	424.8	0.0	572.7
105.00		1.00	1.00	23.406	25.75	303.58	0.650	0.000	5.00	15.677	10.19	419.8	0.0	558.0
110.00		1.00	1.02	23.719	26.09	297.52	0.650	0.000	5.00	15.268	9.92	414.3	0.0	543.3
115.00		1.00	1.03	24.022	26.42	291.29	0.650	0.000	5.00	14.859	9.66	408.3	0.0	528.6
120.00		1.00	1.04	24.316	26.75	284.88	0.650	0.000	5.00	14.450	9.39	402.0	0.0	513.9
125.00		1.00	1.05	24.602	27.06	278.32	0.650	0.000	5.00	14.041	9.13	395.2	0.0	499.3
130.00	Appurtenance(s)	1.00	1.07	24.879	27.37	271.61	0.650	0.000	5.00	13.632	8.86	388.0	0.0	484.6
135.00	Top - Section 3	1.00	1.08	25.149	27.66	264.76	0.650	0.000	5.00	13.222	8.59	380.4	0.0	469.9
140.00		1.00	1.09	25.411	27.95	257.77	0.650	0.000	5.00	12.813	8.33	372.5	0.0	274.3
145.00	Appurtenance(s)	1.00	1.10	25.667	28.23	250.66	0.650	0.000	5.00	12.404	8.06	364.2	0.0	265.5
150.00		1.00	1.11	25.917	28.51	243.43	0.650	0.000	5.00	11.995	7.80	355.6	0.0	256.6
155.00	Appurtenance(s)	1.00	1.12	26.161	28.78	236.09	0.650	0.000	5.00	11.586	7.53	346.8	0.0	247.8
160.00		1.00	1.13	26.399	29.04	228.64	0.650	0.000	5.00	11.177	7.27	337.6	0.0	239.0
165.00		1.00	1.14	26.633	29.30	221.08	0.650	0.000	5.00	10.768	7.00	328.1	0.0	230.2
167.00	Appurtenance(s)	1.00	1.14	26.724	29.40	218.03	0.650	0.000	2.00	4.193	2.73	128.2	0.0	89.6
170.00		1.00	1.15	26.861	29.55	213.43	0.650	0.000	3.00	6.166	4.01	189.5	0.0	131.8
Totals:									170.00			13,721.4	25,006.9	

Discrete Appurtenance Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

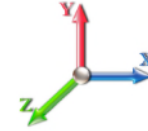


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Load Case: 0.9D + 1.6W 98 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	167.00	Amphenol	2	26.724	29.397	0.63	0.90	9.54	30.60	0.000	0.000	448.63	0.00	0.00
2	167.00	Low Profile Platform	1	26.724	29.397	1.00	1.00	25.00	1080.00	0.000	0.000	1175.87	0.00	0.00
3	167.00	Samsung MT6407-77A	3	26.724	29.397	0.63	0.90	8.86	214.38	0.000	0.000	416.92	0.00	0.00
4	167.00	Commscope	3	26.724	29.397	0.75	0.90	18.11	117.99	0.000	0.000	851.67	0.00	0.00
5	167.00	Commscope	3	26.724	29.397	0.75	0.90	18.11	129.60	0.000	0.000	851.67	0.00	0.00
6	167.00	Mod	1	26.724	29.397	1.00	1.00	8.75	387.00	0.000	0.000	411.56	0.00	0.00
7	167.00	Amphenol	1	26.724	29.397	1.00	1.00	5.76	16.20	0.000	0.000	270.92	0.00	0.00
8	167.00	Samsung RF4439d-25A	3	26.724	29.397	0.60	0.90	3.38	227.88	0.000	0.000	159.11	0.00	0.00
9	167.00	Samsung RF4440d-13A	3	26.724	29.397	0.60	0.90	3.38	189.81	0.000	0.000	159.11	0.00	0.00
10	167.00	Samsung RT4401-48A	3	26.724	29.397	0.60	0.90	2.79	62.37	0.000	0.000	131.03	0.00	0.00
11	167.00	RFS DB-B1-6C-12AB-OZ	2	26.724	29.397	0.81	0.90	4.97	48.60	0.000	0.000	233.92	0.00	0.00
12	155.00	(3) SFS-H-L (V-Braces)	1	26.161	28.777	1.00	1.00	6.70	207.00	0.000	0.000	308.49	0.00	0.00
13	155.00	HRK14	1	26.161	28.777	1.00	1.00	8.13	272.12	0.000	0.000	374.33	0.00	0.00
14	155.00	PRK-1245 (kicker kit)	1	26.161	28.777	1.00	1.00	9.50	418.42	0.000	0.000	437.41	0.00	0.00
15	155.00	NNVV-65B-R4	3	26.161	28.777	0.55	0.75	20.15	208.98	0.000	0.000	927.93	0.00	0.00
16	155.00	APXVTM14-C-I20	3	26.161	28.777	0.58	0.75	11.13	151.74	0.000	0.000	512.31	0.00	0.00
17	155.00	Low Profile Platform-flat	1	26.161	28.777	1.00	1.00	25.00	1354.50	0.000	0.000	1151.09	0.00	0.00
18	155.00	800 MHz RRH	6	26.161	28.777	0.69	0.75	10.31	286.20	0.000	0.000	474.64	0.00	0.00
19	155.00	1900MHz RRH (65MHz)	3	26.161	28.777	0.66	0.75	5.48	162.00	0.000	0.000	252.53	0.00	0.00
20	155.00	TD-RRH8x20-25	3	26.161	28.777	0.52	0.75	6.29	189.00	0.000	0.000	289.50	0.00	0.00
21	145.00	7770.00	6	25.667	28.234	0.73	1.00	24.09	189.00	0.000	0.000	1088.25	0.00	0.00
22	145.00	Low Profile Platform-flat	1	25.667	28.234	1.00	1.00	25.00	1080.00	0.000	0.000	1129.36	0.00	0.00
23	145.00	AM-X-CD-17-65-00T-RET	3	25.667	28.234	0.75	1.00	11.25	83.16	0.000	0.000	508.21	0.00	0.00
24	145.00	LGP21401	6	25.667	28.234	0.75	1.00	5.80	76.14	0.000	0.000	262.24	0.00	0.00
25	145.00	RRUS-11	6	25.667	28.234	0.68	1.00	18.03	297.00	0.000	0.000	814.66	0.00	0.00
26	145.00	DC6-48-60-18-8F	1	25.667	28.234	0.75	1.00	1.10	28.62	0.000	0.000	49.80	0.00	0.00
27	130.00	APX18-206517S-C-ACU	7	24.879	27.367	0.73	1.00	26.93	132.30	0.000	0.000	1179.16	0.00	0.00
28	130.00	Radio 4449 B71+B12	2	24.879	27.367	0.67	1.00	2.64	127.80	0.000	0.000	115.59	0.00	0.00
29	130.00	KRY 112 144/1	2	24.879	27.367	1.00	1.00	0.82	19.80	0.000	0.000	35.91	0.00	0.00
30	130.00	APXVAARR24_43-U-NA2	2	24.879	27.367	0.70	1.00	28.34	230.40	0.000	0.000	1240.74	0.00	0.00
31	130.00	Ericsson KRY 112 489/2	2	24.879	27.367	1.00	1.00	1.30	27.72	0.000	0.000	56.92	0.00	0.00
32	130.00	T-Arm (Flat)	3	24.879	27.367	0.56	0.75	16.88	1080.00	0.000	0.000	738.90	0.00	0.00
33	50.00	GPS	1	18.935	20.829	1.00	1.00	1.00	9.00	0.000	0.000	33.33	0.00	0.00

Totals: 9,135.33

17,091.73

Total Applied Force Summary

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

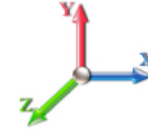


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Load Case: 0.9D + 1.6W 98 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		435.38	1346.61	0.00	0.00
10.00		427.73	1326.05	0.00	0.00
15.00		420.08	1305.49	0.00	0.00
20.00		412.43	1284.93	0.00	0.00
25.00		404.77	1264.37	0.00	0.00
30.00		397.46	1243.81	0.00	0.00
35.00		407.35	1223.26	0.00	0.00
40.00		414.88	1202.70	0.00	0.00
44.00		334.91	947.35	0.00	0.00
45.00		84.74	407.08	0.00	0.00
50.00	(1) attachments	464.67	2021.49	0.00	0.00
55.00		434.14	1018.69	0.00	0.00
60.00		435.74	1001.07	0.00	0.00
65.00		436.26	983.45	0.00	0.00
70.00		435.84	965.83	0.00	0.00
75.00		434.57	948.21	0.00	0.00
80.00		432.52	930.58	0.00	0.00
85.00		429.77	912.96	0.00	0.00
87.00		170.15	360.25	0.00	0.00
90.00		258.62	894.56	0.00	0.00
92.00		171.39	589.91	0.00	0.00
95.00		256.26	461.90	0.00	0.00
100.00		424.77	758.09	0.00	0.00
105.00		419.78	743.40	0.00	0.00
110.00		414.29	728.72	0.00	0.00
115.00		408.35	685.95	0.00	0.00
120.00		401.96	671.27	0.00	0.00
125.00		395.16	656.58	0.00	0.00
130.00	(18) attachments	3755.19	2259.92	0.00	0.00
135.00		380.41	598.50	0.00	0.00
140.00		372.49	402.87	0.00	0.00
145.00	(23) attachments	4216.75	2147.98	0.00	0.00
150.00		355.65	325.22	0.00	0.00
155.00	(22) attachments	5074.99	3566.37	0.00	0.00
160.00		337.56	295.72	0.00	0.00
165.00		328.07	286.91	0.00	0.00
167.00	(25) attachments	5238.61	2616.73	0.00	0.00
170.00		189.48	131.78	0.00	0.00
	Totals:	30,813.18	39,516.59	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 17



Load Case: 0.9D + 1.6W 98 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	16.350	0.00	0.72
10.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	16.350	0.00	0.72
15.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	16.350	0.00	0.72
20.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	16.350	0.00	0.72
25.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	16.350	0.00	0.72
30.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	16.364	0.00	0.72
35.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	17.100	0.00	0.72
40.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	17.765	0.00	0.72
44.00	1/2" Coax	Yes	4.00	0.000	0.65	0.22	0.00	0.014	0.000	18.256	0.00	0.58
45.00	1/2" Coax	Yes	1.00	0.000	0.65	0.05	0.00	0.014	0.000	18.374	0.00	0.14
50.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.014	0.000	18.935	0.00	0.72
Totals:											0.0	7.2

Calculated Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

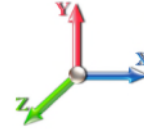


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Load Case: 0.9D + 1.6W 98 mph Wind

Iterations 25

Dead Load Factor 0.90
Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-39.47	-30.88	0.00	-3878.2	0.00	3878.24	5281.41	2640.70	11948.3	5983.04	0.00	0.000	0.000	0.656
5.00	-38.02	-30.56	0.00	-3723.8	0.00	3723.85	5219.65	2609.83	11599.6	5808.42	0.10	-0.185	0.000	0.649
10.00	-36.60	-30.25	0.00	-3571.0	0.00	3571.04	5156.79	2578.39	11253.4	5635.08	0.39	-0.371	0.000	0.641
15.00	-35.20	-29.94	0.00	-3419.7	0.00	3419.79	5092.81	2546.41	10909.9	5463.06	0.88	-0.560	0.000	0.633
20.00	-33.82	-29.62	0.00	-3270.1	0.00	3270.11	5027.73	2513.87	10569.1	5292.44	1.57	-0.752	0.000	0.625
25.00	-32.46	-29.31	0.00	-3122.0	0.00	3122.00	4961.55	2480.77	10231.3	5123.29	2.46	-0.945	0.000	0.616
30.00	-31.12	-29.00	0.00	-2975.4	0.00	2975.46	4894.25	2447.13	9896.64	4955.68	3.56	-1.140	0.000	0.607
35.00	-29.81	-28.67	0.00	-2830.4	0.00	2830.48	4825.85	2412.92	9565.10	4789.66	4.86	-1.337	0.000	0.597
40.00	-28.53	-28.31	0.00	-2687.1	0.00	2687.16	4756.34	2378.17	9236.88	4625.31	6.36	-1.535	0.000	0.587
44.00	-27.54	-28.00	0.00	-2573.9	0.00	2573.93	4699.93	2349.97	8976.79	4495.07	7.72	-1.696	0.000	0.579
45.00	-27.08	-27.96	0.00	-2545.9	0.00	2545.93	4685.72	2342.86	8912.13	4462.69	8.08	-1.737	0.000	0.576
50.00	-24.98	-27.52	0.00	-2406.1	0.00	2406.14	3825.89	1912.95	7262.03	3636.41	10.00	-1.939	0.000	0.668
55.00	-23.87	-27.14	0.00	-2268.5	0.00	2268.56	3771.75	1885.87	7008.23	3509.32	12.14	-2.141	0.000	0.653
60.00	-22.79	-26.75	0.00	-2132.8	0.00	2132.89	3716.49	1858.25	6756.75	3383.40	14.51	-2.366	0.000	0.637
65.00	-21.72	-26.36	0.00	-1999.1	0.00	1999.14	3660.13	1830.06	6507.73	3258.70	17.10	-2.592	0.000	0.620
70.00	-20.67	-25.96	0.00	-1867.3	0.00	1867.35	3602.65	1801.33	6261.29	3135.30	19.94	-2.817	0.000	0.602
75.00	-19.65	-25.55	0.00	-1737.5	0.00	1737.56	3544.08	1772.04	6017.58	3013.26	23.01	-3.041	0.000	0.582
80.00	-18.65	-25.14	0.00	-1609.8	0.00	1609.80	3484.39	1742.19	5776.72	2892.65	26.31	-3.265	0.000	0.562
85.00	-17.69	-24.71	0.00	-1484.0	0.00	1484.09	3423.59	1711.80	5538.85	2773.54	29.85	-3.487	0.000	0.540
87.00	-17.30	-24.55	0.00	-1434.6	0.00	1434.68	3398.97	1699.48	5444.57	2726.33	31.33	-3.577	0.000	0.532
90.00	-16.37	-24.27	0.00	-1361.0	0.00	1361.03	3361.69	1680.85	5304.10	2655.99	33.62	-3.710	0.000	0.518
92.00	-15.75	-24.09	0.00	-1312.5	0.00	1312.50	2669.14	1334.57	4251.41	2128.87	35.19	-3.799	0.000	0.623
95.00	-15.23	-23.85	0.00	-1240.2	0.00	1240.24	2642.32	1321.16	4145.22	2075.69	37.62	-3.930	0.000	0.604
100.00	-14.40	-23.43	0.00	-1121.0	0.00	1121.00	2596.75	1298.37	3969.75	1987.83	41.86	-4.171	0.000	0.570
105.00	-13.60	-23.01	0.00	-1003.8	0.00	1003.84	2550.06	1275.03	3796.28	1900.96	46.35	-4.405	0.000	0.534
110.00	-12.82	-22.59	0.00	-888.77	0.00	888.77	2502.27	1251.14	3624.94	1815.17	51.08	-4.630	0.000	0.495
115.00	-12.09	-22.17	0.00	-775.82	0.00	775.82	2453.37	1226.69	3455.87	1730.50	56.04	-4.845	0.000	0.454
120.00	-11.38	-21.75	0.00	-664.95	0.00	664.95	2403.37	1201.68	3289.20	1647.05	61.22	-5.047	0.000	0.409
125.00	-10.70	-21.33	0.00	-556.19	0.00	556.19	2352.25	1176.13	3125.07	1564.86	66.60	-5.234	0.000	0.360
130.00	-8.75	-17.41	0.00	-449.53	0.00	449.53	2300.03	1150.02	2963.60	1484.00	72.17	-5.402	0.000	0.307
135.00	-8.15	-16.99	0.00	-362.48	0.00	362.48	2244.25	1122.13	2801.87	1403.02	77.90	-5.550	0.000	0.262
135.00	-8.15	-16.99	0.00	-362.48	0.00	362.48	1130.59	565.30	1423.12	712.62	77.90	-5.550	0.000	0.517
140.00	-7.74	-16.60	0.00	-277.52	0.00	277.52	1111.81	555.90	1354.95	678.48	83.78	-5.679	0.000	0.417
145.00	-5.99	-12.21	0.00	-194.50	0.00	194.50	1091.92	545.96	1286.99	644.45	89.81	-5.851	0.000	0.308
150.00	-5.68	-11.83	0.00	-133.46	0.00	133.46	1070.92	535.46	1219.36	610.58	96.00	-5.983	0.000	0.224
155.00	-2.66	-6.41	0.00	-74.30	0.00	74.30	1048.81	524.40	1152.19	576.95	102.31	-6.076	0.000	0.131
160.00	-2.40	-6.05	0.00	-42.23	0.00	42.23	1025.59	512.80	1085.62	543.62	108.70	-6.133	0.000	0.080
165.00	-2.15	-5.69	0.00	-11.99	0.00	11.99	1001.27	500.64	1019.78	510.65	115.13	-6.163	0.000	0.026
167.00	-0.11	-0.20	0.00	-0.61	0.00	0.61	991.23	495.62	993.68	497.58	117.71	-6.167	0.000	0.001
170.00	0.00	-0.19	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	121.58	-6.167	0.000	0.000

Wind Loading - Shaft

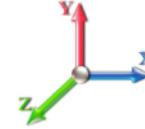
Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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

Iterations 24

Dead Load Factor 1.20
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.256	4.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.256	4.68	0.00	1.200	1.242	5.00	24.312	29.17	136.6	434.0	1981.3
10.00		1.00	0.70	4.256	4.68	0.00	1.200	1.331	5.00	23.977	28.77	134.7	457.8	1977.7
15.00		1.00	0.70	4.256	4.68	0.00	1.200	1.386	5.00	23.614	28.34	132.7	468.8	1961.3
20.00		1.00	0.70	4.256	4.68	0.00	1.200	1.427	5.00	23.239	27.89	130.6	474.2	1939.3
25.00		1.00	0.70	4.256	4.68	0.00	1.200	1.459	5.00	22.857	27.43	128.4	476.3	1914.0
30.00		1.00	0.70	4.260	4.69	0.00	1.200	1.486	5.00	22.470	26.96	126.3	476.4	1886.6
35.00		1.00	0.73	4.451	4.90	0.00	1.200	1.509	5.00	22.080	26.50	129.7	474.8	1857.7
40.00		1.00	0.76	4.625	5.09	0.00	1.200	1.529	5.00	21.688	26.03	132.4	472.1	1827.6
44.00	Bot - Section 2	1.00	0.78	4.752	5.23	0.00	1.200	1.544	4.00	17.065	20.48	107.0	375.5	1440.1
45.00		1.00	0.79	4.783	5.26	0.00	1.200	1.547	1.00	4.289	5.15	27.1	95.2	588.3
50.00	Top - Section 1	1.00	0.81	4.929	5.42	0.00	1.200	1.564	5.00	21.216	25.46	138.0	471.5	2906.7
55.00		1.00	0.83	5.065	5.57	0.00	1.200	1.579	5.00	20.819	24.98	139.2	466.6	1577.7
60.00		1.00	0.85	5.193	5.71	0.00	1.200	1.592	5.00	20.421	24.51	140.0	461.2	1548.7
65.00		1.00	0.87	5.313	5.84	0.00	1.200	1.605	5.00	20.023	24.03	140.4	455.3	1519.4
70.00		1.00	0.89	5.426	5.97	0.00	1.200	1.617	5.00	19.624	23.55	140.6	449.0	1489.6
75.00		1.00	0.91	5.534	6.09	0.00	1.200	1.628	5.00	19.224	23.07	140.4	442.4	1459.4
80.00		1.00	0.93	5.637	6.20	0.00	1.200	1.639	5.00	18.824	22.59	140.1	435.4	1429.0
85.00		1.00	0.94	5.736	6.31	0.00	1.200	1.649	5.00	18.423	22.11	139.5	428.2	1398.2
87.00	Bot - Section 3	1.00	0.95	5.774	6.35	0.00	1.200	1.653	2.00	7.256	8.71	55.3	170.1	551.5
90.00		1.00	0.96	5.830	6.41	0.00	1.200	1.658	3.00	10.923	13.11	84.1	256.3	1300.7
92.00	Top - Section 2	1.00	0.96	5.867	6.45	0.00	1.200	1.662	2.00	7.201	8.64	55.8	169.6	857.3
95.00		1.00	0.97	5.921	6.51	0.00	1.200	1.667	3.00	10.682	12.82	83.5	251.7	719.2
100.00		1.00	0.99	6.008	6.61	0.00	1.200	1.676	5.00	17.483	20.98	138.7	411.5	1175.1
105.00		1.00	1.00	6.093	6.70	0.00	1.200	1.684	5.00	17.080	20.50	137.4	403.4	1147.4
110.00		1.00	1.02	6.174	6.79	0.00	1.200	1.692	5.00	16.678	20.01	135.9	395.2	1119.6
115.00		1.00	1.03	6.253	6.88	0.00	1.200	1.699	5.00	16.275	19.53	134.3	386.7	1091.5
120.00		1.00	1.04	6.330	6.96	0.00	1.200	1.707	5.00	15.872	19.05	132.6	378.1	1063.3
125.00		1.00	1.05	6.404	7.04	0.00	1.200	1.714	5.00	15.469	18.56	130.8	369.3	1035.0
130.00	Appurtenance(s)	1.00	1.07	6.476	7.12	0.00	1.200	1.720	5.00	15.065	18.08	128.8	360.4	1006.5
135.00	Top - Section 3	1.00	1.08	6.546	7.20	0.00	1.200	1.727	5.00	14.662	17.59	126.7	351.4	977.9
140.00		1.00	1.09	6.615	7.28	0.00	1.200	1.733	5.00	14.258	17.11	124.5	342.2	707.9
145.00	Appurtenance(s)	1.00	1.10	6.681	7.35	0.00	1.200	1.739	5.00	13.854	16.62	122.2	333.0	686.9
150.00		1.00	1.11	6.746	7.42	0.00	1.200	1.745	5.00	13.450	16.14	119.8	323.6	665.8
155.00	Appurtenance(s)	1.00	1.12	6.810	7.49	0.00	1.200	1.751	5.00	13.045	15.65	117.3	314.1	644.5
160.00		1.00	1.13	6.872	7.56	0.00	1.200	1.757	5.00	12.641	15.17	114.7	304.5	623.2
165.00		1.00	1.14	6.933	7.63	0.00	1.200	1.762	5.00	12.236	14.68	112.0	294.8	601.8
167.00	Appurtenance(s)	1.00	1.14	6.957	7.65	0.00	1.200	1.764	2.00	4.781	5.74	43.9	116.4	235.9
170.00		1.00	1.15	6.992	7.69	0.00	1.200	1.767	3.00	7.050	8.46	65.1	171.0	346.7
Totals:									170.00			4,466.8		47,260.4

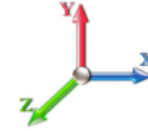
Discrete Appurtenance Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 20



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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor	x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	
1	167.00	Amphenol	2	6.957	7.652	0.63	0.90	13.06	246.08	0.000	0.000	99.92	0.00	0.00		
2	167.00	Low Profile Platform	1	6.957	7.652	1.00	1.00	46.17	2198.43	0.000	0.000	353.29	0.00	0.00		
3	167.00	Samsung MT6407-77A	3	6.957	7.652	0.63	0.90	10.67	649.16	0.000	0.000	81.68	0.00	0.00		
4	167.00	Commscope	3	6.957	7.652	0.75	0.90	21.04	769.93	0.000	0.000	160.97	0.00	0.00		
5	167.00	Commscope	3	6.957	7.652	0.75	0.90	21.04	785.41	0.000	0.000	160.97	0.00	0.00		
6	167.00	Mod	1	6.957	7.652	1.00	1.00	17.39	1461.81	0.000	0.000	133.10	0.00	0.00		
7	167.00	Amphenol	1	6.957	7.652	1.00	1.00	8.16	113.35	0.000	0.000	62.43	0.00	0.00		
8	167.00	Samsung RF4439d-25A	3	6.957	7.652	0.60	0.90	4.43	536.60	0.000	0.000	33.92	0.00	0.00		
9	167.00	Samsung RF4440d-13A	3	6.957	7.652	0.60	0.90	4.43	463.99	0.000	0.000	33.92	0.00	0.00		
10	167.00	Samsung RT4401-48A	3	6.957	7.652	0.60	0.90	3.75	242.90	0.000	0.000	28.69	0.00	0.00		
11	167.00	RFS DB-B1-6C-12AB-OZ	2	6.957	7.652	0.81	0.90	6.15	280.51	0.000	0.000	47.06	0.00	0.00		
12	155.00	(3) SFS-H-L (V-Braces)	1	6.810	7.491	1.00	1.00	13.74	497.17	0.000	0.000	102.92	0.00	0.00		
13	155.00	HRK14	1	6.810	7.491	1.00	1.00	16.10	1025.20	0.000	0.000	120.62	0.00	0.00		
14	155.00	PRK-1245 (kicker kit)	1	6.810	7.491	1.00	1.00	19.48	788.42	0.000	0.000	145.93	0.00	0.00		
15	155.00	NNVV-65B-R4	3	6.810	7.491	0.57	0.75	23.48	940.73	0.000	0.000	175.89	0.00	0.00		
16	155.00	APXVTM14-C-I20	3	6.810	7.491	0.61	0.75	13.59	685.45	0.000	0.000	101.81	0.00	0.00		
17	155.00	Low Profile Platform-flat	1	6.810	7.491	1.00	1.00	46.01	3128.59	0.000	0.000	344.67	0.00	0.00		
18	155.00	800 MHz RRH	6	6.810	7.491	0.69	0.75	15.06	700.22	0.000	0.000	112.81	0.00	0.00		
19	155.00	1900MHz RRH (65MHz)	3	6.810	7.491	0.66	0.75	8.00	395.43	0.000	0.000	59.96	0.00	0.00		
20	155.00	TD-RRH8x20-25	3	6.810	7.491	0.52	0.75	7.55	584.70	0.000	0.000	56.59	0.00	0.00		
21	145.00	7770.00	6	6.681	7.350	0.73	1.00	28.74	1059.67	0.000	0.000	211.22	0.00	0.00		
22	145.00	Low Profile Platform-flat	1	6.681	7.350	1.00	1.00	45.87	2183.59	0.000	0.000	337.14	0.00	0.00		
23	145.00	AM-X-CD-17-65-00T-RET	3	6.681	7.350	0.75	1.00	15.45	349.14	0.000	0.000	113.57	0.00	0.00		
24	145.00	LGP21401	6	6.681	7.350	0.75	1.00	9.55	208.42	0.000	0.000	70.21	0.00	0.00		
25	145.00	RRUS-11	6	6.681	7.350	0.68	1.00	24.13	779.73	0.000	0.000	177.35	0.00	0.00		
26	145.00	DC6-48-60-18-8F	1	6.681	7.350	0.75	1.00	1.63	82.08	0.000	0.000	11.95	0.00	0.00		
27	130.00	APX18-206517S-C-ACU	7	6.476	7.124	0.73	1.00	33.17	995.23	0.000	0.000	236.32	0.00	0.00		
28	130.00	Radio 4449 B71+B12	2	6.476	7.124	0.67	1.00	3.36	248.44	0.000	0.000	23.96	0.00	0.00		
29	130.00	KRY 112 144/1	2	6.476	7.124	1.00	1.00	1.76	41.46	0.000	0.000	12.51	0.00	0.00		
30	130.00	APXVAARR24_43-U-NA2	2	6.476	7.124	0.70	1.00	30.96	1129.70	0.000	0.000	220.53	0.00	0.00		
31	130.00	Ericsson KRY 112 489/2	2	6.476	7.124	1.00	1.00	2.51	61.70	0.000	0.000	17.86	0.00	0.00		
32	130.00	T-Arm (Flat)	3	6.476	7.124	0.56	0.75	31.39	2025.80	0.000	0.000	223.62	0.00	0.00		
33	50.00	GPS	1	4.929	5.422	1.00	1.00	1.64	30.27	0.000	0.000	8.88	0.00	0.00		
Totals:									25,689.30							4,082.25

Total Applied Force Summary

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

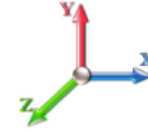


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		136.58	2242.20	0.00	0.00
10.00		134.70	2240.22	0.00	0.00
15.00		132.66	2224.88	0.00	0.00
20.00		130.55	2203.66	0.00	0.00
25.00		128.41	2179.05	0.00	0.00
30.00		126.34	2152.19	0.00	0.00
35.00		129.74	2123.73	0.00	0.00
40.00		132.39	2094.06	0.00	0.00
44.00		107.05	1653.50	0.00	0.00
45.00		27.08	641.68	0.00	0.00
50.00	(1) attachments	146.91	3204.18	0.00	0.00
55.00		139.19	1824.88	0.00	0.00
60.00		139.97	1795.95	0.00	0.00
65.00		140.41	1766.56	0.00	0.00
70.00		140.56	1736.77	0.00	0.00
75.00		140.44	1706.63	0.00	0.00
80.00		140.07	1676.17	0.00	0.00
85.00		139.49	1645.43	0.00	0.00
87.00		55.30	650.41	0.00	0.00
90.00		84.06	1449.04	0.00	0.00
92.00		55.77	956.19	0.00	0.00
95.00		83.49	867.54	0.00	0.00
100.00		138.66	1422.33	0.00	0.00
105.00		137.37	1394.64	0.00	0.00
110.00		135.93	1366.78	0.00	0.00
115.00		134.34	1301.30	0.00	0.00
120.00		132.61	1273.10	0.00	0.00
125.00		130.76	1244.76	0.00	0.00
130.00	(18) attachments	863.59	5718.61	0.00	0.00
135.00		126.69	1149.38	0.00	0.00
140.00		124.49	879.39	0.00	0.00
145.00	(23) attachments	1043.62	5520.99	0.00	0.00
150.00		119.77	757.20	0.00	0.00
155.00	(22) attachments	1338.45	9481.88	0.00	0.00
160.00		114.66	698.80	0.00	0.00
165.00		111.97	677.37	0.00	0.00
167.00	(25) attachments	1239.86	8014.28	0.00	0.00
170.00		65.07	346.74	0.00	0.00
Totals:		8,549.01	80,282.48	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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

Iterations 24

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1/2" Coax	Yes	5.00	0.000	0.65	1.31	0.00	0.012	0.000	4.256	0.00	13.70
10.00	1/2" Coax	Yes	5.00	0.000	0.65	1.38	0.00	0.012	0.000	4.256	0.00	15.33
15.00	1/2" Coax	Yes	5.00	0.000	0.65	1.43	0.00	0.012	0.000	4.256	0.00	16.38
20.00	1/2" Coax	Yes	5.00	0.000	0.65	1.46	0.00	0.012	0.000	4.256	0.00	17.18
25.00	1/2" Coax	Yes	5.00	0.000	0.65	1.49	0.00	0.013	0.000	4.256	0.00	17.83
30.00	1/2" Coax	Yes	5.00	0.000	0.65	1.51	0.00	0.013	0.000	4.260	0.00	18.38
35.00	1/2" Coax	Yes	5.00	0.000	0.65	1.53	0.00	0.013	0.000	4.451	0.00	18.86
40.00	1/2" Coax	Yes	5.00	0.000	0.65	1.55	0.00	0.013	0.000	4.625	0.00	19.29
44.00	1/2" Coax	Yes	4.00	0.000	0.65	1.25	0.00	0.014	0.000	4.752	0.00	15.68
45.00	1/2" Coax	Yes	1.00	0.000	0.65	0.31	0.00	0.014	0.000	4.783	0.00	3.93
50.00	1/2" Coax	Yes	5.00	0.000	0.65	1.57	0.00	0.014	0.000	4.929	0.00	20.02
Totals:											0.0	176.6

Calculated Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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

Iterations 24

Dead Load Factor 1.20
Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-80.28	-8.59	0.00	-1098.6	0.00	1098.64	5281.41	2640.70	11948.3	5983.04	0.00	0.000	0.000	0.199
5.00	-78.03	-8.52	0.00	-1055.7	0.00	1055.71	5219.65	2609.83	11599.6	5808.42	0.03	-0.052	0.000	0.197
10.00	-75.78	-8.45	0.00	-1013.1	0.00	1013.11	5156.79	2578.39	11253.4	5635.08	0.11	-0.105	0.000	0.194
15.00	-73.55	-8.38	0.00	-970.85	0.00	970.85	5092.81	2546.41	10909.9	5463.06	0.25	-0.159	0.000	0.192
20.00	-71.34	-8.31	0.00	-928.93	0.00	928.93	5027.73	2513.87	10569.1	5292.44	0.45	-0.213	0.000	0.190
25.00	-69.15	-8.24	0.00	-887.36	0.00	887.36	4961.55	2480.77	10231.3	5123.29	0.70	-0.268	0.000	0.187
30.00	-66.99	-8.17	0.00	-846.14	0.00	846.14	4894.25	2447.13	9896.64	4955.68	1.01	-0.324	0.000	0.184
35.00	-64.86	-8.09	0.00	-805.29	0.00	805.29	4825.85	2412.92	9565.10	4789.66	1.38	-0.380	0.000	0.182
40.00	-62.76	-8.00	0.00	-764.83	0.00	764.83	4756.34	2378.17	9236.88	4625.31	1.81	-0.436	0.000	0.179
44.00	-61.10	-7.91	0.00	-732.83	0.00	732.83	4699.93	2349.97	8976.79	4495.07	2.19	-0.482	0.000	0.176
45.00	-60.46	-7.92	0.00	-724.92	0.00	724.92	4685.72	2342.86	8912.13	4462.69	2.29	-0.494	0.000	0.175
50.00	-57.25	-7.80	0.00	-685.34	0.00	685.34	3825.89	1912.95	7262.03	3636.41	2.84	-0.551	0.000	0.203
55.00	-55.42	-7.70	0.00	-646.36	0.00	646.36	3771.75	1885.87	7008.23	3509.32	3.45	-0.609	0.000	0.199
60.00	-53.61	-7.60	0.00	-607.87	0.00	607.87	3716.49	1858.25	6756.75	3383.40	4.12	-0.673	0.000	0.194
65.00	-51.84	-7.49	0.00	-569.89	0.00	569.89	3660.13	1830.06	6507.73	3258.70	4.86	-0.737	0.000	0.189
70.00	-50.10	-7.39	0.00	-532.42	0.00	532.42	3602.65	1801.33	6261.29	3135.30	5.67	-0.801	0.000	0.184
75.00	-48.38	-7.27	0.00	-495.49	0.00	495.49	3544.08	1772.04	6017.58	3013.26	6.54	-0.865	0.000	0.178
80.00	-46.70	-7.16	0.00	-459.12	0.00	459.12	3484.39	1742.19	5776.72	2892.65	7.48	-0.929	0.000	0.172
85.00	-45.05	-7.03	0.00	-423.32	0.00	423.32	3423.59	1711.80	5538.85	2773.54	8.49	-0.992	0.000	0.166
87.00	-44.40	-6.99	0.00	-409.26	0.00	409.26	3398.97	1699.48	5444.57	2726.33	8.91	-1.018	0.000	0.163
90.00	-42.95	-6.90	0.00	-388.30	0.00	388.30	3361.69	1680.85	5304.10	2655.99	9.56	-1.056	0.000	0.159
92.00	-41.99	-6.85	0.00	-374.51	0.00	374.51	2669.14	1334.57	4251.41	2128.87	10.01	-1.081	0.000	0.192
95.00	-41.12	-6.79	0.00	-353.96	0.00	353.96	2642.32	1321.16	4145.22	2075.69	10.70	-1.119	0.000	0.186
100.00	-39.69	-6.67	0.00	-320.03	0.00	320.03	2596.75	1298.37	3969.75	1987.83	11.91	-1.187	0.000	0.176
105.00	-38.29	-6.54	0.00	-286.69	0.00	286.69	2550.06	1275.03	3796.28	1900.96	13.19	-1.254	0.000	0.166
110.00	-36.92	-6.42	0.00	-253.98	0.00	253.98	2502.27	1251.14	3624.94	1815.17	14.54	-1.319	0.000	0.155
115.00	-35.62	-6.29	0.00	-221.89	0.00	221.89	2453.37	1226.69	3455.87	1730.50	15.95	-1.380	0.000	0.143
120.00	-34.34	-6.16	0.00	-190.44	0.00	190.44	2403.37	1201.68	3289.20	1647.05	17.43	-1.438	0.000	0.130
125.00	-33.10	-6.03	0.00	-159.65	0.00	159.65	2352.25	1176.13	3125.07	1564.86	18.96	-1.491	0.000	0.116
130.00	-27.40	-5.03	0.00	-129.52	0.00	129.52	2300.03	1150.02	2963.60	1484.00	20.55	-1.540	0.000	0.099
135.00	-26.25	-4.89	0.00	-104.35	0.00	104.35	2244.25	1122.13	2801.87	1403.02	22.19	-1.583	0.000	0.086
135.00	-26.25	-4.89	0.00	-104.35	0.00	104.35	1130.59	565.30	1423.12	712.62	22.19	-1.583	0.000	0.170
140.00	-25.37	-4.76	0.00	-79.88	0.00	79.88	1111.81	555.90	1354.95	678.48	23.86	-1.620	0.000	0.141
145.00	-19.88	-3.58	0.00	-56.06	0.00	56.06	1091.92	545.96	1286.99	644.45	25.59	-1.669	0.000	0.105
150.00	-19.12	-3.45	0.00	-38.18	0.00	38.18	1070.92	535.46	1219.36	610.58	27.36	-1.707	0.000	0.080
155.00	-9.69	-1.83	0.00	-20.95	0.00	20.95	1048.81	524.40	1152.19	576.95	29.16	-1.733	0.000	0.046
160.00	-8.99	-1.69	0.00	-11.81	0.00	11.81	1025.59	512.80	1085.62	543.62	30.99	-1.750	0.000	0.031
165.00	-8.32	-1.56	0.00	-3.35	0.00	3.35	1001.27	500.64	1019.78	510.65	32.82	-1.758	0.000	0.015
167.00	-0.34	-0.08	0.00	-0.23	0.00	0.23	991.23	495.62	993.68	497.58	33.56	-1.759	0.000	0.001
170.00	0.00	-0.07	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	34.67	-1.759	0.000	0.000

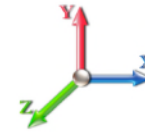
Seismic Segment Forces (Factored)

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E				Iterations 22
Gust Response Factor	1.10	Sds	0.19	Ss 0.18
Dead Load Factor	1.20	Seismic Load Factor	1.00	S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.30	SA 0.03
				Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1289.4	0.00	0.03	0.02	23.63	
10.00		1266.5	0.01	0.05	0.03	33.86	
15.00		1243.7	0.01	0.06	0.04	38.66	
20.00		1220.9	0.03	0.07	0.04	40.81	
25.00		1198.0	0.04	0.07	0.04	41.65	
30.00		1175.2	0.06	0.07	0.04	41.92	
35.00		1152.3	0.08	0.07	0.04	42.01	
40.00		1129.5	0.10	0.07	0.04	42.06	
44.00	Bot - Section 2	887.18	0.13	0.07	0.03	33.59	
45.00		410.95	0.13	0.07	0.03	15.62	
50.00	Top - Section 1	2039.3	0.16	0.07	0.03	78.83	
55.00		925.88	0.20	0.06	0.02	36.00	
60.00		906.30	0.24	0.06	0.02	34.70	
65.00		886.72	0.28	0.05	0.01	32.21	
70.00		867.14	0.32	0.04	0.01	28.05	
75.00		847.56	0.37	0.03	0.01	21.81	
80.00		827.98	0.42	0.01	0.01	13.36	
85.00		808.40	0.47	-0.01	0.01	3.19	
87.00	Bot - Section 3	317.88	0.49	-0.01	0.01	-0.44	
90.00		870.36	0.53	-0.03	0.01	-8.27	
92.00	Top - Section 2	573.06	0.55	-0.04	0.01	-8.48	
95.00		389.62	0.59	-0.05	0.01	-8.66	
100.00		636.32	0.65	-0.07	0.02	-20.62	
105.00		620.00	0.72	-0.09	0.03	-24.10	
110.00		603.69	0.79	-0.11	0.05	-24.89	
115.00		587.37	0.86	-0.12	0.07	-23.18	
120.00		571.05	0.94	-0.12	0.10	-19.25	
125.00		554.74	1.02	-0.10	0.14	-13.36	
130.00	Appurtenance(s)	2336.2	1.11	-0.07	0.19	-24.95	
135.00	Top - Section 3	522.10	1.19	0.00	0.25	3.39	
140.00		304.74	1.28	0.10	0.32	8.36	
145.00	Appurtenance(s)	2243.7	1.37	0.24	0.41	117.18	
150.00		285.16	1.47	0.43	0.51	23.07	
155.00	Appurtenance(s)	3886.4	1.57	0.69	0.63	441.44	
160.00		265.58	1.67	1.03	0.78	39.92	
165.00		255.79	1.78	1.45	0.94	48.92	
167.00	Appurtenance(s)	2882.2	1.82	1.65	1.02	601.78	
170.00		146.42	1.89	1.98	1.14	34.61	
Totals:		37,935.8				1,744.4	Total Wind: 30,813.2

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

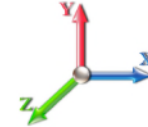
Calculated Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E		Iterations 22
Gust Response Factor 1.10	Sds 0.19	Ss 0.18
Dead Load Factor 1.20	Seismic Load Factor 1.00	S1 0.06
Wind Load Factor 0.00	Structure Frequency (f1) 0.30	SA 0.03
		Seismic Importance Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-52.69	-1.93	0.00	-248.69	0.00	248.69	5281.41	2640.70	11948.3	5983.04	0.00	0.00	0.00	0.052
5.00	-50.89	-1.91	0.00	-239.06	0.00	239.06	5219.65	2609.83	11599.6	5808.42	0.01	-0.01	0.051	
10.00	-49.12	-1.89	0.00	-229.50	0.00	229.50	5156.79	2578.39	11253.4	5635.08	0.03	-0.02	0.050	
15.00	-47.38	-1.86	0.00	-220.06	0.00	220.06	5092.81	2546.41	10909.9	5463.06	0.06	-0.04	0.050	
20.00	-45.67	-1.83	0.00	-210.77	0.00	210.77	5027.73	2513.87	10569.1	5292.44	0.10	-0.05	0.049	
25.00	-43.98	-1.79	0.00	-201.64	0.00	201.64	4961.55	2480.77	10231.3	5123.29	0.16	-0.06	0.048	
30.00	-42.32	-1.76	0.00	-192.68	0.00	192.68	4894.25	2447.13	9896.64	4955.68	0.23	-0.07	0.048	
35.00	-40.69	-1.72	0.00	-183.89	0.00	183.89	4825.85	2412.92	9565.10	4789.66	0.31	-0.09	0.047	
40.00	-39.09	-1.69	0.00	-175.27	0.00	175.27	4756.34	2378.17	9236.88	4625.31	0.41	-0.10	0.046	
44.00	-37.83	-1.65	0.00	-168.53	0.00	168.53	4699.93	2349.97	8976.79	4495.07	0.50	-0.11	0.046	
45.00	-37.28	-1.64	0.00	-166.87	0.00	166.87	4685.72	2342.86	8912.13	4462.69	0.52	-0.11	0.045	
50.00	-34.59	-1.57	0.00	-158.66	0.00	158.66	3825.89	1912.95	7262.03	3636.41	0.64	-0.13	0.053	
55.00	-33.23	-1.54	0.00	-150.82	0.00	150.82	3771.75	1885.87	7008.23	3509.32	0.78	-0.14	0.052	
60.00	-31.89	-1.51	0.00	-143.14	0.00	143.14	3716.49	1858.25	6756.75	3383.40	0.94	-0.15	0.051	
65.00	-30.58	-1.48	0.00	-135.61	0.00	135.61	3660.13	1830.06	6507.73	3258.70	1.11	-0.17	0.050	
70.00	-29.29	-1.45	0.00	-128.22	0.00	128.22	3602.65	1801.33	6261.29	3135.30	1.29	-0.18	0.049	
75.00	-28.03	-1.44	0.00	-120.95	0.00	120.95	3544.08	1772.04	6017.58	3013.26	1.49	-0.20	0.048	
80.00	-26.79	-1.43	0.00	-113.77	0.00	113.77	3484.39	1742.19	5776.72	2892.65	1.71	-0.22	0.047	
85.00	-25.57	-1.42	0.00	-106.64	0.00	106.64	3423.59	1711.80	5538.85	2773.54	1.95	-0.23	0.046	
87.00	-25.09	-1.42	0.00	-103.80	0.00	103.80	3398.97	1699.48	5444.57	2726.33	2.04	-0.24	0.045	
90.00	-23.90	-1.42	0.00	-99.52	0.00	99.52	3361.69	1680.85	5304.10	2655.99	2.20	-0.25	0.045	
92.00	-23.11	-1.42	0.00	-96.68	0.00	96.68	2669.14	1334.57	4251.41	2128.87	2.30	-0.25	0.054	
95.00	-22.49	-1.43	0.00	-92.41	0.00	92.41	2642.32	1321.16	4145.22	2075.69	2.46	-0.26	0.053	
100.00	-21.48	-1.43	0.00	-85.29	0.00	85.29	2596.75	1298.37	3969.75	1987.83	2.75	-0.28	0.051	
105.00	-20.49	-1.43	0.00	-78.15	0.00	78.15	2550.06	1275.03	3796.28	1900.96	3.06	-0.30	0.049	
110.00	-19.52	-1.43	0.00	-71.01	0.00	71.01	2502.27	1251.14	3624.94	1815.17	3.38	-0.32	0.047	
115.00	-18.60	-1.43	0.00	-63.86	0.00	63.86	2453.37	1226.69	3455.87	1730.50	3.72	-0.34	0.044	
120.00	-17.71	-1.43	0.00	-56.71	0.00	56.71	2403.37	1201.68	3289.20	1647.05	4.08	-0.35	0.042	
125.00	-16.83	-1.43	0.00	-49.57	0.00	49.57	2352.25	1176.13	3125.07	1564.86	4.46	-0.37	0.039	
130.00	-13.82	-1.41	0.00	-42.42	0.00	42.42	2300.03	1150.02	2963.60	1484.00	4.85	-0.38	0.035	
135.00	-13.02	-1.41	0.00	-35.36	0.00	35.36	2244.25	1122.13	2801.87	1403.02	5.26	-0.40	0.031	
135.00	-13.02	-1.41	0.00	-35.36	0.00	35.36	1130.59	565.30	1423.12	712.62	5.26	-0.40	0.061	
140.00	-12.48	-1.40	0.00	-28.33	0.00	28.33	1111.81	555.90	1354.95	678.48	5.69	-0.41	0.053	
145.00	-9.62	-1.26	0.00	-21.34	0.00	21.34	1091.92	545.96	1286.99	644.45	6.13	-0.43	0.042	
150.00	-9.19	-1.24	0.00	-15.02	0.00	15.02	1070.92	535.46	1219.36	610.58	6.59	-0.44	0.033	
155.00	-4.44	-0.76	0.00	-8.83	0.00	8.83	1048.81	524.40	1152.19	576.95	7.06	-0.45	0.020	
160.00	-4.04	-0.72	0.00	-5.03	0.00	5.03	1025.59	512.80	1085.62	543.62	7.54	-0.46	0.013	
165.00	-3.66	-0.67	0.00	-1.44	0.00	1.44	1001.27	500.64	1019.78	510.65	8.02	-0.46	0.006	
167.00	-0.18	-0.04	0.00	-0.11	0.00	0.11	991.23	495.62	993.68	497.58	8.22	-0.47	0.000	
170.00	0.00	-0.03	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	8.51	-0.47	0.000	

Seismic Segment Forces (Factored)

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

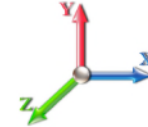


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Load Case: 0.9D + 1.0E

Iterations 22

Gust Response Factor 1.10	Sds 0.19	Ss 0.18	
Dead Load Factor 0.90	Seismic Load Factor 1.00	Sd1 0.10	S1 0.06
Wind Load Factor 0.00	Structure Frequency (f1) 0.30	SA 0.03	Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
5.00		1289.4	0.00	0.03	0.02	23.63	
10.00		1266.5	0.01	0.05	0.03	33.86	
15.00		1243.7	0.01	0.06	0.04	38.66	
20.00		1220.9	0.03	0.07	0.04	40.81	
25.00		1198.0	0.04	0.07	0.04	41.65	
30.00		1175.2	0.06	0.07	0.04	41.92	
35.00		1152.3	0.08	0.07	0.04	42.01	
40.00		1129.5	0.10	0.07	0.04	42.06	
44.00	Bot - Section 2	887.18	0.13	0.07	0.03	33.59	
45.00		410.95	0.13	0.07	0.03	15.62	
50.00	Top - Section 1	2039.3	0.16	0.07	0.03	78.83	
55.00		925.88	0.20	0.06	0.02	36.00	
60.00		906.30	0.24	0.06	0.02	34.70	
65.00		886.72	0.28	0.05	0.01	32.21	
70.00		867.14	0.32	0.04	0.01	28.05	
75.00		847.56	0.37	0.03	0.01	21.81	
80.00		827.98	0.42	0.01	0.01	13.36	
85.00		808.40	0.47	-0.01	0.01	3.19	
87.00	Bot - Section 3	317.88	0.49	-0.01	0.01	-0.44	
90.00		870.36	0.53	-0.03	0.01	-8.27	
92.00	Top - Section 2	573.06	0.55	-0.04	0.01	-8.48	
95.00		389.62	0.59	-0.05	0.01	-8.66	
100.00		636.32	0.65	-0.07	0.02	-20.62	
105.00		620.00	0.72	-0.09	0.03	-24.10	
110.00		603.69	0.79	-0.11	0.05	-24.89	
115.00		587.37	0.86	-0.12	0.07	-23.18	
120.00		571.05	0.94	-0.12	0.10	-19.25	
125.00		554.74	1.02	-0.10	0.14	-13.36	
130.00	Appurtenance(s)	2336.2	1.11	-0.07	0.19	-24.95	
135.00	Top - Section 3	522.10	1.19	0.00	0.25	3.39	
140.00		304.74	1.28	0.10	0.32	8.36	
145.00	Appurtenance(s)	2243.7	1.37	0.24	0.41	117.18	
150.00		285.16	1.47	0.43	0.51	23.07	
155.00	Appurtenance(s)	3886.4	1.57	0.69	0.63	441.44	
160.00		265.58	1.67	1.03	0.78	39.92	
165.00		255.79	1.78	1.45	0.94	48.92	
167.00	Appurtenance(s)	2882.2	1.82	1.65	1.02	601.78	
170.00		146.42	1.89	1.98	1.14	34.61	
Totals:		37,935.8				1,744.4	Total Wind: 30,813.2

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

Calculated Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

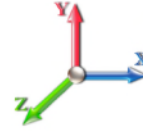


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Load Case: 0.9D + 1.0E

Iterations 22

Gust Response Factor 1.10	Sds 0.19	Ss 0.18
Dead Load Factor 0.90	Seismic Load Factor 1.00	Sd1 0.10
Wind Load Factor 0.00	Structure Frequency (f1) 0.30	SA 0.03
	Seismic Importance Factor 1.00	



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-39.52	-1.92	0.00	-245.30	0.00	245.30	5281.41	2640.70	11948.3	5983.04	0.00	0.00	0.00	0.048
5.00	-38.17	-1.91	0.00	-235.68	0.00	235.68	5219.65	2609.83	11599.6	5808.42	0.01	-0.01	0.048	
10.00	-36.84	-1.88	0.00	-226.14	0.00	226.14	5156.79	2578.39	11253.4	5635.08	0.02	-0.02	0.047	
15.00	-35.54	-1.85	0.00	-216.73	0.00	216.73	5092.81	2546.41	10909.9	5463.06	0.06	-0.04	0.047	
20.00	-34.25	-1.81	0.00	-207.49	0.00	207.49	5027.73	2513.87	10569.1	5292.44	0.10	-0.05	0.046	
25.00	-32.99	-1.78	0.00	-198.41	0.00	198.41	4961.55	2480.77	10231.3	5123.29	0.16	-0.06	0.045	
30.00	-31.74	-1.74	0.00	-189.52	0.00	189.52	4894.25	2447.13	9896.64	4955.68	0.23	-0.07	0.045	
35.00	-30.52	-1.71	0.00	-180.80	0.00	180.80	4825.85	2412.92	9565.10	4789.66	0.31	-0.08	0.044	
40.00	-29.32	-1.67	0.00	-172.27	0.00	172.27	4756.34	2378.17	9236.88	4625.31	0.40	-0.10	0.043	
44.00	-28.37	-1.64	0.00	-165.60	0.00	165.60	4699.93	2349.97	8976.79	4495.07	0.49	-0.11	0.043	
45.00	-27.96	-1.62	0.00	-163.97	0.00	163.97	4685.72	2342.86	8912.13	4462.69	0.51	-0.11	0.043	
50.00	-25.94	-1.55	0.00	-155.85	0.00	155.85	3825.89	1912.95	7262.03	3636.41	0.64	-0.12	0.050	
55.00	-24.92	-1.51	0.00	-148.12	0.00	148.12	3771.75	1885.87	7008.23	3509.32	0.77	-0.14	0.049	
60.00	-23.92	-1.48	0.00	-140.55	0.00	140.55	3716.49	1858.25	6756.75	3383.40	0.92	-0.15	0.048	
65.00	-22.94	-1.45	0.00	-133.14	0.00	133.14	3660.13	1830.06	6507.73	3258.70	1.09	-0.17	0.047	
70.00	-21.97	-1.43	0.00	-125.87	0.00	125.87	3602.65	1801.33	6261.29	3135.30	1.27	-0.18	0.046	
75.00	-21.02	-1.41	0.00	-118.73	0.00	118.73	3544.08	1772.04	6017.58	3013.26	1.47	-0.20	0.045	
80.00	-20.09	-1.40	0.00	-111.68	0.00	111.68	3484.39	1742.19	5776.72	2892.65	1.68	-0.21	0.044	
85.00	-19.18	-1.40	0.00	-104.69	0.00	104.69	3423.59	1711.80	5538.85	2773.54	1.91	-0.23	0.043	
87.00	-18.82	-1.40	0.00	-101.90	0.00	101.90	3398.97	1699.48	5444.57	2726.33	2.01	-0.23	0.043	
90.00	-17.92	-1.40	0.00	-97.71	0.00	97.71	3361.69	1680.85	5304.10	2655.99	2.16	-0.24	0.042	
92.00	-17.33	-1.39	0.00	-94.92	0.00	94.92	2669.14	1334.57	4251.41	2128.87	2.26	-0.25	0.051	
95.00	-16.87	-1.40	0.00	-90.74	0.00	90.74	2642.32	1321.16	4145.22	2075.69	2.42	-0.26	0.050	
100.00	-16.11	-1.40	0.00	-83.75	0.00	83.75	2596.75	1298.37	3969.75	1987.83	2.71	-0.28	0.048	
105.00	-15.37	-1.40	0.00	-76.76	0.00	76.76	2550.06	1275.03	3796.28	1900.96	3.01	-0.29	0.046	
110.00	-14.64	-1.40	0.00	-69.76	0.00	69.76	2502.27	1251.14	3624.94	1815.17	3.32	-0.31	0.044	
115.00	-13.95	-1.40	0.00	-62.76	0.00	62.76	2453.37	1226.69	3455.87	1730.50	3.66	-0.33	0.042	
120.00	-13.28	-1.40	0.00	-55.76	0.00	55.76	2403.37	1201.68	3289.20	1647.05	4.01	-0.35	0.039	
125.00	-12.62	-1.40	0.00	-48.76	0.00	48.76	2352.25	1176.13	3125.07	1564.86	4.39	-0.36	0.037	
130.00	-10.36	-1.39	0.00	-41.76	0.00	41.76	2300.03	1150.02	2963.60	1484.00	4.77	-0.38	0.033	
135.00	-9.76	-1.38	0.00	-34.82	0.00	34.82	2244.25	1122.13	2801.87	1403.02	5.18	-0.39	0.029	
135.00	-9.76	-1.38	0.00	-34.82	0.00	34.82	1130.59	565.30	1423.12	712.62	5.18	-0.39	0.058	
140.00	-9.36	-1.37	0.00	-27.91	0.00	27.91	1111.81	555.90	1354.95	678.48	5.59	-0.40	0.050	
145.00	-7.21	-1.24	0.00	-21.04	0.00	21.04	1091.92	545.96	1286.99	644.45	6.03	-0.42	0.039	
150.00	-6.89	-1.22	0.00	-14.82	0.00	14.82	1070.92	535.46	1219.36	610.58	6.48	-0.44	0.031	
155.00	-3.33	-0.75	0.00	-8.72	0.00	8.72	1048.81	524.40	1152.19	576.95	6.94	-0.45	0.018	
160.00	-3.03	-0.71	0.00	-4.97	0.00	4.97	1025.59	512.80	1085.62	543.62	7.41	-0.45	0.012	
165.00	-2.74	-0.66	0.00	-1.42	0.00	1.42	1001.27	500.64	1019.78	510.65	7.89	-0.46	0.006	
167.00	-0.13	-0.04	0.00	-0.11	0.00	0.11	991.23	495.62	993.68	497.58	8.08	-0.46	0.000	
170.00	0.00	-0.03	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	8.37	-0.46	0.000	

Wind Loading - Shaft

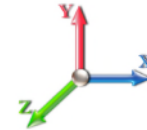
Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.74	235.75	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.74	231.65	0.650	0.000	5.00	23.277	15.13	102.0	0.0	1289.4
10.00		1.00	0.70	6.129	6.74	227.54	0.650	0.000	5.00	22.868	14.86	100.2	0.0	1266.6
15.00		1.00	0.70	6.129	6.74	223.43	0.650	0.000	5.00	22.459	14.60	98.4	0.0	1243.7
20.00		1.00	0.70	6.129	6.74	219.33	0.650	0.000	5.00	22.050	14.33	96.6	0.0	1220.9
25.00		1.00	0.70	6.129	6.74	215.22	0.650	0.000	5.00	21.641	14.07	94.8	0.0	1198.1
30.00		1.00	0.70	6.134	6.75	211.20	0.650	0.000	5.00	21.232	13.80	93.1	0.0	1175.2
35.00		1.00	0.73	6.410	7.05	211.70	0.650	0.000	5.00	20.823	13.53	95.4	0.0	1152.4
40.00		1.00	0.76	6.659	7.33	211.50	0.650	0.000	5.00	20.414	13.27	97.2	0.0	1129.5
44.00	Bot - Section 2	1.00	0.78	6.843	7.53	210.93	0.650	0.000	4.00	16.036	10.42	78.5	0.0	887.2
45.00		1.00	0.79	6.887	7.58	210.73	0.650	0.000	1.00	4.032	2.62	19.9	0.0	411.0
50.00	Top - Section 1	1.00	0.81	7.098	7.81	209.51	0.650	0.000	5.00	19.913	12.94	101.1	0.0	2029.3
55.00		1.00	0.83	7.294	8.02	211.38	0.650	0.000	5.00	19.504	12.68	101.7	0.0	925.9
60.00		1.00	0.85	7.477	8.22	209.48	0.650	0.000	5.00	19.094	12.41	102.1	0.0	906.3
65.00		1.00	0.87	7.650	8.42	207.30	0.650	0.000	5.00	18.685	12.15	102.2	0.0	886.7
70.00		1.00	0.89	7.814	8.60	204.87	0.650	0.000	5.00	18.276	11.88	102.1	0.0	867.1
75.00		1.00	0.91	7.969	8.77	202.22	0.650	0.000	5.00	17.867	11.61	101.8	0.0	847.6
80.00		1.00	0.93	8.118	8.93	199.36	0.650	0.000	5.00	17.458	11.35	101.3	0.0	828.0
85.00		1.00	0.94	8.260	9.09	196.33	0.650	0.000	5.00	17.049	11.08	100.7	0.0	808.4
87.00	Bot - Section 3	1.00	0.95	8.315	9.15	195.07	0.650	0.000	2.00	6.705	4.36	39.9	0.0	317.9
90.00		1.00	0.96	8.396	9.24	193.13	0.650	0.000	3.00	10.094	6.56	60.6	0.0	870.4
92.00	Top - Section 2	1.00	0.96	8.448	9.29	191.81	0.650	0.000	2.00	6.647	4.32	40.2	0.0	573.1
95.00		1.00	0.97	8.526	9.38	192.92	0.650	0.000	3.00	9.848	6.40	60.0	0.0	389.6
100.00		1.00	0.99	8.652	9.52	189.45	0.650	0.000	5.00	16.086	10.46	99.5	0.0	636.3
105.00		1.00	1.00	8.774	9.65	185.87	0.650	0.000	5.00	15.677	10.19	98.3	0.0	620.0
110.00		1.00	1.02	8.891	9.78	182.16	0.650	0.000	5.00	15.268	9.92	97.1	0.0	603.7
115.00		1.00	1.03	9.005	9.91	178.34	0.650	0.000	5.00	14.859	9.66	95.7	0.0	587.4
120.00		1.00	1.04	9.115	10.03	174.42	0.650	0.000	5.00	14.450	9.39	94.2	0.0	571.1
125.00		1.00	1.05	9.222	10.14	170.40	0.650	0.000	5.00	14.041	9.13	92.6	0.0	554.7
130.00	Appurtenance(s)	1.00	1.07	9.326	10.26	166.29	0.650	0.000	5.00	13.632	8.86	90.9	0.0	538.4
135.00	Top - Section 3	1.00	1.08	9.427	10.37	162.10	0.650	0.000	5.00	13.222	8.59	89.1	0.0	522.1
140.00		1.00	1.09	9.525	10.48	157.82	0.650	0.000	5.00	12.813	8.33	87.3	0.0	304.7
145.00	Appurtenance(s)	1.00	1.10	9.621	10.58	153.47	0.650	0.000	5.00	12.404	8.06	85.3	0.0	294.9
150.00		1.00	1.11	9.715	10.69	149.04	0.650	0.000	5.00	11.995	7.80	83.3	0.0	285.2
155.00	Appurtenance(s)	1.00	1.12	9.806	10.79	144.54	0.650	0.000	5.00	11.586	7.53	81.2	0.0	275.4
160.00		1.00	1.13	9.896	10.89	139.98	0.650	0.000	5.00	11.177	7.27	79.1	0.0	265.6
165.00		1.00	1.14	9.983	10.98	135.36	0.650	0.000	5.00	10.768	7.00	76.9	0.0	255.8
167.00	Appurtenance(s)	1.00	1.14	10.017	11.02	133.49	0.650	0.000	2.00	4.193	2.73	30.0	0.0	99.6
170.00		1.00	1.15	10.069	11.08	130.67	0.650	0.000	3.00	6.166	4.01	44.4	0.0	146.4
Totals:									170.00			3,214.6		27,785.5

Discrete Appurtenance Forces

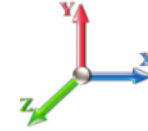
Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 29



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	167.00	Amphenol	2	10.017	11.019	0.63	0.90	9.54	34.00	0.000	0.000	105.10	0.00	0.00
2	167.00	Low Profile Platform	1	10.017	11.019	1.00	1.00	25.00	1200.00	0.000	0.000	275.48	0.00	0.00
3	167.00	Samsung MT6407-77A	3	10.017	11.019	0.63	0.90	8.86	238.20	0.000	0.000	97.68	0.00	0.00
4	167.00	Commscope	3	10.017	11.019	0.75	0.90	18.11	131.10	0.000	0.000	199.53	0.00	0.00
5	167.00	Commscope	3	10.017	11.019	0.75	0.90	18.11	144.00	0.000	0.000	199.53	0.00	0.00
6	167.00	Mod	1	10.017	11.019	1.00	1.00	8.75	430.00	0.000	0.000	96.42	0.00	0.00
7	167.00	Amphenol	1	10.017	11.019	1.00	1.00	5.76	18.00	0.000	0.000	63.47	0.00	0.00
8	167.00	Samsung RF4439d-25A	3	10.017	11.019	0.60	0.90	3.38	253.20	0.000	0.000	37.28	0.00	0.00
9	167.00	Samsung RF4440d-13A	3	10.017	11.019	0.60	0.90	3.38	210.90	0.000	0.000	37.28	0.00	0.00
10	167.00	Samsung RT4401-48A	3	10.017	11.019	0.60	0.90	2.79	69.30	0.000	0.000	30.70	0.00	0.00
11	167.00	RFS DB-B1-6C-12AB-OZ	2	10.017	11.019	0.81	0.90	4.97	54.00	0.000	0.000	54.80	0.00	0.00
12	155.00	(3) SFS-H-L (V-Braces)	1	9.806	10.787	1.00	1.00	6.70	230.00	0.000	0.000	72.27	0.00	0.00
13	155.00	HRK14	1	9.806	10.787	1.00	1.00	8.13	302.36	0.000	0.000	87.70	0.00	0.00
14	155.00	PRK-1245 (kicker kit)	1	9.806	10.787	1.00	1.00	9.50	464.91	0.000	0.000	102.48	0.00	0.00
15	155.00	NNVV-65B-R4	3	9.806	10.787	0.55	0.75	20.15	232.20	0.000	0.000	217.39	0.00	0.00
16	155.00	APXVTM14-C-I20	3	9.806	10.787	0.58	0.75	11.13	168.60	0.000	0.000	120.02	0.00	0.00
17	155.00	Low Profile Platform-flat	1	9.806	10.787	1.00	1.00	25.00	1505.00	0.000	0.000	269.67	0.00	0.00
18	155.00	800 MHz RRH	6	9.806	10.787	0.69	0.75	10.31	318.00	0.000	0.000	111.20	0.00	0.00
19	155.00	1900MHz RRH (65MHz)	3	9.806	10.787	0.66	0.75	5.48	180.00	0.000	0.000	59.16	0.00	0.00
20	155.00	TD-RRH8x20-25	3	9.806	10.787	0.52	0.75	6.29	210.00	0.000	0.000	67.82	0.00	0.00
21	145.00	7770.00	6	9.621	10.583	0.73	1.00	24.09	210.00	0.000	0.000	254.95	0.00	0.00
22	145.00	Low Profile Platform-flat	1	9.621	10.583	1.00	1.00	25.00	1200.00	0.000	0.000	264.58	0.00	0.00
23	145.00	AM-X-CD-17-65-00T-RET	3	9.621	10.583	0.75	1.00	11.25	92.40	0.000	0.000	119.06	0.00	0.00
24	145.00	LGP21401	6	9.621	10.583	0.75	1.00	5.80	84.60	0.000	0.000	61.44	0.00	0.00
25	145.00	RRUS-11	6	9.621	10.583	0.68	1.00	18.03	330.00	0.000	0.000	190.86	0.00	0.00
26	145.00	DC6-48-60-18-8F	1	9.621	10.583	0.75	1.00	1.10	31.80	0.000	0.000	11.67	0.00	0.00
27	130.00	APX18-206517S-C-ACU	7	9.326	10.258	0.73	1.00	26.93	147.00	0.000	0.000	276.25	0.00	0.00
28	130.00	Radio 4449 B71+B12	2	9.326	10.258	0.67	1.00	2.64	142.00	0.000	0.000	27.08	0.00	0.00
29	130.00	KRY 112 144/1	2	9.326	10.258	1.00	1.00	0.82	22.00	0.000	0.000	8.41	0.00	0.00
30	130.00	APXVAARR24_43-U-NA2	2	9.326	10.258	0.70	1.00	28.34	256.00	0.000	0.000	290.68	0.00	0.00
31	130.00	Ericsson KRY 112 489/2	2	9.326	10.258	1.00	1.00	1.30	30.80	0.000	0.000	13.34	0.00	0.00
32	130.00	T-Arm (Flat)	3	9.326	10.258	0.56	0.75	16.88	1200.00	0.000	0.000	173.11	0.00	0.00
33	50.00	GPS	1	7.098	7.807	1.00	1.00	1.00	10.00	0.000	0.000	7.81	0.00	0.00
Totals:									10,150.37			4,004.21		

Total Applied Force Summary

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

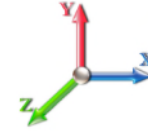


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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 23

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		102.00	1496.23	0.00	0.00
10.00		100.21	1473.39	0.00	0.00
15.00		98.41	1450.55	0.00	0.00
20.00		96.62	1427.70	0.00	0.00
25.00		94.83	1404.86	0.00	0.00
30.00		93.12	1382.02	0.00	0.00
35.00		95.43	1359.17	0.00	0.00
40.00		97.20	1336.33	0.00	0.00
44.00		78.46	1052.62	0.00	0.00
45.00		19.85	452.31	0.00	0.00
50.00	(1) attachments	108.86	2246.10	0.00	0.00
55.00		101.71	1131.88	0.00	0.00
60.00		102.08	1112.30	0.00	0.00
65.00		102.21	1092.72	0.00	0.00
70.00		102.11	1073.14	0.00	0.00
75.00		101.81	1053.56	0.00	0.00
80.00		101.33	1033.98	0.00	0.00
85.00		100.68	1014.40	0.00	0.00
87.00		39.86	400.28	0.00	0.00
90.00		60.59	993.96	0.00	0.00
92.00		40.15	655.46	0.00	0.00
95.00		60.04	513.22	0.00	0.00
100.00		99.51	842.32	0.00	0.00
105.00		98.34	826.00	0.00	0.00
110.00		97.06	809.69	0.00	0.00
115.00		95.67	762.17	0.00	0.00
120.00		94.17	745.85	0.00	0.00
125.00		92.58	729.54	0.00	0.00
130.00	(18) attachments	879.76	2511.02	0.00	0.00
135.00		89.12	665.00	0.00	0.00
140.00		87.27	447.64	0.00	0.00
145.00	(23) attachments	987.89	2386.65	0.00	0.00
150.00		83.32	361.36	0.00	0.00
155.00	(22) attachments	1188.96	3962.64	0.00	0.00
160.00		79.08	328.58	0.00	0.00
165.00		76.86	318.79	0.00	0.00
167.00	(25) attachments	1227.29	2907.47	0.00	0.00
170.00		44.39	146.42	0.00	0.00
	Totals:	7,218.83	43,907.32	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 23

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	6.129	0.00	0.80
10.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	6.129	0.00	0.80
15.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	6.129	0.00	0.80
20.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.012	0.000	6.129	0.00	0.80
25.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	6.129	0.00	0.80
30.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	6.134	0.00	0.80
35.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	6.410	0.00	0.80
40.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.013	0.000	6.659	0.00	0.80
44.00	1/2" Coax	Yes	4.00	0.000	0.65	0.22	0.00	0.014	0.000	6.843	0.00	0.64
45.00	1/2" Coax	Yes	1.00	0.000	0.65	0.05	0.00	0.014	0.000	6.887	0.00	0.16
50.00	1/2" Coax	Yes	5.00	0.000	0.65	0.27	0.00	0.014	0.000	7.098	0.00	0.80
Totals:											0.0	8.0

Calculated Forces

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

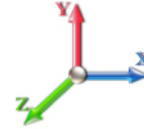


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

Dead Load Factor 1.00
Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-43.90	-7.23	0.00	-913.94	0.00	913.94	5281.41	2640.70	11948.3	5983.04	0.00	0.000	0.000	0.161
5.00	-42.40	-7.16	0.00	-877.77	0.00	877.77	5219.65	2609.83	11599.6	5808.42	0.02	-0.044	0.000	0.159
10.00	-40.92	-7.09	0.00	-841.95	0.00	841.95	5156.79	2578.39	11253.4	5635.08	0.09	-0.088	0.000	0.157
15.00	-39.47	-7.02	0.00	-806.48	0.00	806.48	5092.81	2546.41	10909.9	5463.06	0.21	-0.132	0.000	0.155
20.00	-38.04	-6.95	0.00	-771.36	0.00	771.36	5027.73	2513.87	10569.1	5292.44	0.37	-0.177	0.000	0.153
25.00	-36.63	-6.88	0.00	-736.59	0.00	736.59	4961.55	2480.77	10231.3	5123.29	0.58	-0.223	0.000	0.151
30.00	-35.24	-6.81	0.00	-702.17	0.00	702.17	4894.25	2447.13	9896.64	4955.68	0.84	-0.269	0.000	0.149
35.00	-33.87	-6.74	0.00	-668.11	0.00	668.11	4825.85	2412.92	9565.10	4789.66	1.14	-0.315	0.000	0.147
40.00	-32.53	-6.66	0.00	-634.42	0.00	634.42	4756.34	2378.17	9236.88	4625.31	1.50	-0.362	0.000	0.144
44.00	-31.48	-6.58	0.00	-607.80	0.00	607.80	4699.93	2349.97	8976.79	4495.07	1.82	-0.400	0.000	0.142
45.00	-31.02	-6.58	0.00	-601.21	0.00	601.21	4685.72	2342.86	8912.13	4462.69	1.90	-0.410	0.000	0.141
50.00	-28.77	-6.48	0.00	-568.33	0.00	568.33	3825.89	1912.95	7262.03	3636.41	2.36	-0.457	0.000	0.164
55.00	-27.64	-6.39	0.00	-535.95	0.00	535.95	3771.75	1885.87	7008.23	3509.32	2.86	-0.505	0.000	0.160
60.00	-26.52	-6.30	0.00	-504.01	0.00	504.01	3716.49	1858.25	6756.75	3383.40	3.42	-0.558	0.000	0.156
65.00	-25.42	-6.21	0.00	-472.51	0.00	472.51	3660.13	1830.06	6507.73	3258.70	4.04	-0.612	0.000	0.152
70.00	-24.34	-6.12	0.00	-441.46	0.00	441.46	3602.65	1801.33	6261.29	3135.30	4.70	-0.665	0.000	0.148
75.00	-23.29	-6.03	0.00	-410.86	0.00	410.86	3544.08	1772.04	6017.58	3013.26	5.43	-0.718	0.000	0.143
80.00	-22.25	-5.93	0.00	-380.73	0.00	380.73	3484.39	1742.19	5776.72	2892.65	6.21	-0.771	0.000	0.138
85.00	-21.23	-5.83	0.00	-351.07	0.00	351.07	3423.59	1711.80	5538.85	2773.54	7.05	-0.823	0.000	0.133
87.00	-20.83	-5.79	0.00	-339.41	0.00	339.41	3398.97	1699.48	5444.57	2726.33	7.40	-0.845	0.000	0.131
90.00	-19.83	-5.73	0.00	-322.03	0.00	322.03	3361.69	1680.85	5304.10	2655.99	7.94	-0.876	0.000	0.127
92.00	-19.18	-5.69	0.00	-310.57	0.00	310.57	2669.14	1334.57	4251.41	2128.87	8.31	-0.897	0.000	0.153
95.00	-18.66	-5.63	0.00	-293.51	0.00	293.51	2642.32	1321.16	4145.22	2075.69	8.88	-0.928	0.000	0.148
100.00	-17.81	-5.54	0.00	-265.34	0.00	265.34	2596.75	1298.37	3969.75	1987.83	9.88	-0.985	0.000	0.140
105.00	-16.98	-5.44	0.00	-237.66	0.00	237.66	2550.06	1275.03	3796.28	1900.96	10.95	-1.041	0.000	0.132
110.00	-16.17	-5.34	0.00	-210.46	0.00	210.46	2502.27	1251.14	3624.94	1815.17	12.07	-1.094	0.000	0.122
115.00	-15.41	-5.25	0.00	-183.75	0.00	183.75	2453.37	1226.69	3455.87	1730.50	13.24	-1.145	0.000	0.112
120.00	-14.66	-5.15	0.00	-157.52	0.00	157.52	2403.37	1201.68	3289.20	1647.05	14.46	-1.193	0.000	0.102
125.00	-13.93	-5.05	0.00	-131.78	0.00	131.78	2352.25	1176.13	3125.07	1564.86	15.74	-1.237	0.000	0.090
130.00	-11.43	-4.12	0.00	-106.53	0.00	106.53	2300.03	1150.02	2963.60	1484.00	17.05	-1.277	0.000	0.077
135.00	-10.77	-4.03	0.00	-85.91	0.00	85.91	2244.25	1122.13	2801.87	1403.02	18.41	-1.312	0.000	0.066
135.00	-10.77	-4.03	0.00	-85.91	0.00	85.91	1130.59	565.30	1423.12	712.62	18.41	-1.312	0.000	0.130
140.00	-10.32	-3.93	0.00	-65.79	0.00	65.79	1111.81	555.90	1354.95	678.48	19.80	-1.342	0.000	0.106
145.00	-7.96	-2.89	0.00	-46.11	0.00	46.11	1091.92	545.96	1286.99	644.45	21.23	-1.383	0.000	0.079
150.00	-7.60	-2.81	0.00	-31.64	0.00	31.64	1070.92	535.46	1219.36	610.58	22.70	-1.414	0.000	0.059
155.00	-3.66	-1.52	0.00	-17.61	0.00	17.61	1048.81	524.40	1152.19	576.95	24.19	-1.436	0.000	0.034
160.00	-3.34	-1.43	0.00	-10.01	0.00	10.01	1025.59	512.80	1085.62	543.62	25.70	-1.450	0.000	0.022
165.00	-3.02	-1.35	0.00	-2.84	0.00	2.84	1001.27	500.64	1019.78	510.65	27.23	-1.457	0.000	0.009
167.00	-0.15	-0.05	0.00	-0.14	0.00	0.14	991.23	495.62	993.68	497.58	27.84	-1.458	0.000	0.000
170.00	0.00	-0.04	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	28.75	-1.458	0.000	0.000

Final Analysis Summary

Structure: CT13062-A-SBA	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 98 mph Wind	30.9	0.00	52.64	0.00	0.00	3928.93
0.9D + 1.6W 98 mph Wind	30.9	0.00	39.47	0.00	0.00	3878.24
1.2D + 1.0Di + 1.0Wi 50 mph Wind	8.6	0.00	80.28	0.00	0.00	1098.64
1.2D + 1.0E	1.9	0.00	52.69	0.00	0.00	248.69
0.9D + 1.0E	1.9	0.00	39.52	0.00	0.00	245.30
1.0D + 1.0W 60 mph Wind	7.2	0.00	43.90	0.00	0.00	913.94

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 98 mph Wind	-33.61	-27.84	0.00	-2447.5	0.00	-2447.5	3825.89	1912.9	7262.03	3636.41	50.00	0.682
0.9D + 1.6W 98 mph Wind	-24.98	-27.52	0.00	-2406.1	0.00	-2406.1	3825.89	1912.9	7262.03	3636.41	50.00	0.668
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-57.25	-7.80	0.00	-685.34	0.00	-685.34	3825.89	1912.9	7262.03	3636.41	50.00	0.203
1.2D + 1.0E	-13.02	-1.41	0.00	-35.36	0.00	-35.36	2244.25	1122.1	2801.87	1403.02	135.00	0.061
0.9D + 1.0E	-9.76	-1.38	0.00	-34.82	0.00	-34.82	2244.25	1122.1	2801.87	1403.02	135.00	0.058
1.0D + 1.0W 60 mph Wind	-28.77	-6.48	0.00	-568.33	0.00	-568.33	3825.89	1912.9	7262.03	3636.41	50.00	0.164

Base Plate Summary

Structure: CT13062-A-SB	Code: EIA/TIA-222-G	11/1/2021
Site Name: Marlborough	Exposure: B	
Height: 170.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 34



Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 60.00	Bolt Circle: 63.00
Moment (kip-ft): 4400.00	Width (in): 69.00	Number Bolts: 18.00
Axial (kip): 39.00	Style: Round	Bolt Type: 2.25" 18J
Shear (kip): 36.00	Polygon Sides: 0.00	Bolt Diameter (in): 2.25
Analysis (1.2D + 1.6W)	Clip Length (in): 0.00	Yield (ksi): 75.00
Moment (kip-ft): 3928.93	Effective Len (in): 11.99	Ultimate (ksi): 100.00
Axial (kip): 52.64	Moment (kip-in): 640.36	Arrangement: Radial
Shear (kip): 30.90	Allow Stress (ksi): 81.00	Cluster Dist (in): 0.00
	Applied Stress (ksi): 42.12	Start Angle (deg): 0.00
	Stress Ratio: 0.52	Compression
		Force (kip): 170.76
		Allowable (kip): 260.00
		Ratio: 0.67
		Tension
		Force (kip): 161.84
		Allowable (kip): 260.00
		Ratio: 0.64



Monopole Mat Foundation Design

Date

11/1/2021

Customer Name:	Verizon	EIA/TIA Standard:	EIA-222-G
Site Name:		Structure Height (Ft.):	170
Site Number:	CT13062-A-SBA	Engineer Name:	H. You
Engr. Number:	118268	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations
Monopole
Analysis

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	52.6	Shear Force (Kips):	30.9
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3928.8

Allowable overstress %: 5.0%

Foundation Geometries:

Diameter of Pier (ft.):	7.0	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	0.50	Depth of Base BG (ft.):	6.0
Length of Pad (ft.):	29.5	Thickness of Pad (ft.):	4.00
		Width of Pad (ft.):	29.5

Final Length of pad (ft)	29.5	Final width of pad (ft):	29.5
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Material Properties and Rebar Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	40	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	11	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:			
Qty. of Rebar in Pad (L):	31	Qty. of Rebar in Pad (W):	31
Rebar at the top of the concrete pad:			
Qty. of Rebar in Pad (L):	31	Qty. of Rebar in Pad (W):	31

Apply 1.35 factor for e/w Per G: 1.35

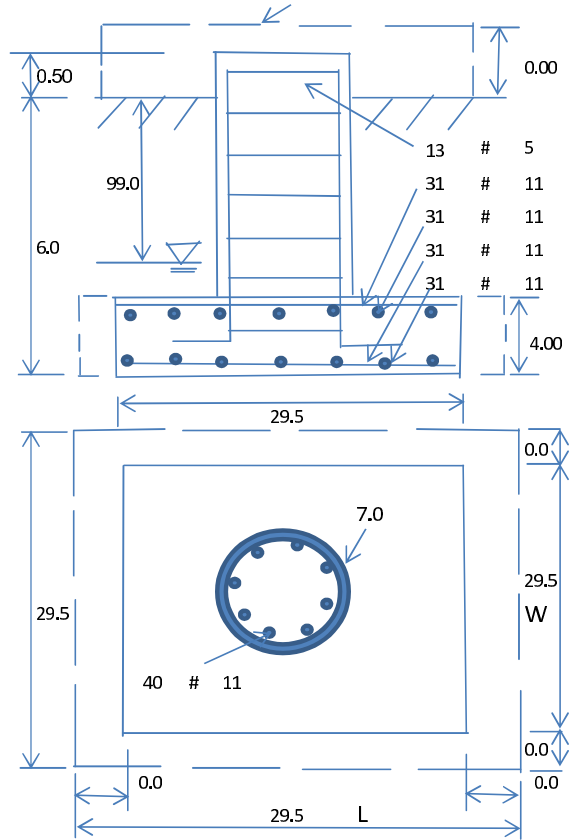
Soil Design Parameters:

Soil Unit Weight (pcf):	100.0	Soil Buoyant Weight:	50.0	Pcf	
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:
Ultimate Bearing Pressure (psf):	8000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad:
Consider soil hor. resist. for OTM.:	No	Reduction factor on the maximum soil bearing pressure:	1.00		

Foundation Analysis and Design:	Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):		1663.53	Total Dry Soil Weight (Kips):	166.35
Total Buoyant Soil Volume (cu. Ft.):		0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):		166.35	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):		3577.21	Total Dry Concrete Weight (Kips):	536.58
Total Buoyant Concrete Volume (cu. Ft.):		0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):		536.58	Total Vertical Load on Base (Kips):	755.53

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	1918	<	Allowable Factored Soil Bearing (psf):	6000	0.32	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	10107.3	>	Design Factored Momont (kips-ft):	4130	0.41	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	2.45					OK!



Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):

Strength reduction factor (Axial compression):

(1) Concrete Pier:

- Vertical Steel Rebar Area (sq. in./each):
- Calculated Moment Capacity (Mn,Kips-Ft):
- Calculated Shear Capacity (Kips):
- Calculated Tension Capacity (Tn, Kips):
- Calculated Compression Capacity (Pn, Kips):
- Moment & Axial Strength Combination:
- Pier Reinforcement Ratio:

(2).Concrete Pad:

- One-Way Design Shear Capacity (L-Direction, Kips):
- One-Way Design Shear Capacity (W-Direction, Kips):
- One-Way Design Shear Capacity (Corner-Corner, Kips):
- Lower Steel Pad Reinforcement Ratio (L-Direct.):
- Lower Steel Pad Moment Capacity (L-Direction, Kips-ft):
- Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):
- Lower Steel Pad Moment Capacity (Corner-Corner, K-ft):
- Upper Steel Pad Reinforcement Ratio (L-Direct.):
- Upper Steel Pad Moment Capacity (L-Direc, Kips-ft):
- Upper Steel Pad Moment Capacity (W-Direc, Kips-ft):
- Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):

(3).Check Punching Shear Capacity due to Moment in the Pier:

- Moment transferred by punching shear:
- Max. factored shear stress $v_{u,AB}$
- Max. factored shear stress v_u

Strength reduction factor (Shear):

Wind Load Factor on Concrete Design:

- Tie / Stirrup Area (sq. in./each):
- > Design Factored Moment (Mu, Kips-F
- > Design Factored Shear (Kips):
- > Design Factored Tension (Tu Kips):
- > Design Factored Axial Load (Pu Kips):
- OK! Check Tie Spacing (Design/Required):
- Reinforcement Ratio is satisfied per ACI

d
Capacity
Ratio

- One-Way Factored Shear (L-D, Kips): 265.2
- One-Way Factored Shear (W-D., Kips)
- One-Way Factored Shear (C-C, Kips): 249.0
- Lower Steel Pad Reinf. Ratio (W-Direc
- Moment at Bottom (L-Dir. K-Ft):
- Moment at Bottom (W-Dir. K-Ft):
- Moment at Bottom (C-C Dir. K-Ft):
- Upper Steel Reinf. Ratio (W-Dir.):
- Moment at the top (L-Dir K-Ft):
- Moment at the top (W-Dir K-Ft):
- Moment at the top (C-C Dir. K-Ft):

- 1571.5 k-ft. Max. factored shear stress $v_{u,CD}$ Psi
- Psi Factored shear Strength ϕv_n Psi
- Psi Check Usage of Punching Shear Capacity: OK!



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Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10107616
Maser Consulting Connecticut Project #: 21777059A (Rev. 1)

October 7, 2021

Site Information

Site ID: 468156-VZW / MARLBOROUGH EAST CT
Site Name: MARLBOROUGH EAST CT
Carrier Name: Verizon Wireless
Address: 175 South Main Street
Marlborough, Connecticut 06447
Hartford County
Latitude: 41.615833°
Longitude: -72.436667°

Structure Information

Tower Type: 170-Ft Monopole
Mount Type: 12.46-Ft Platform

FUZE ID # 16272199

Analysis Results

Platform: 75.5% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

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

Contractor - Please Review Specific Site PMI Requirements Upon Award

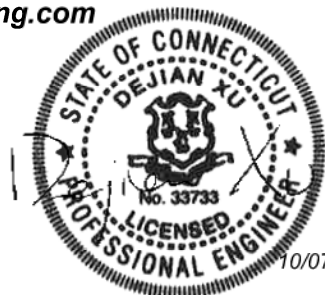
Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Andy Hanes



10/07/2021

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
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 674963, dated September 29, 2021
Construction Drawings	NB+C Engineering Services, LLC, Site Name: MARLBOROUGH EAST CT, dated August 24, 2021
Mount Mapping Report	RKS Design & Engineering LLC, Site ID: SBA:CT13062, dated April 3, 2021
Previous Mount Analysis	Maser Consulting Connecticut, Project #: 21777059A, Rev. 1, dated October 5, 2021
Mount Modification Drawings	Maser Consulting Connecticut, Project #: 21777059A, Rev. 0, dated September 16, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 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 : 0.988
Seismic Parameters:	S_s : 0.206 g S_1 : 0.056 g
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
165.50	167.00	3	Commscope	NHH-65B-R2B	Added
		3	Commscope	NHHSS-65B-R2BT0	
		3	Samsung	MT6407-77A	
		2	RFS	DB-B1-6C-12AB-0Z	
		3	Samsung	CBRS RRH - RT4401-48A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		2	Antel	BXA-70063-6CF	Retained
		1	Antel	BXA-70080-6CF-EDIN-0	

The recent mount mapping did not report existing OVP units. However, it is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required.

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Connection Check	45.1 %	Pass
Standoff Horizontal	46.8 %	Pass
Middle Plate	75.5 %	Pass
Crossmember	49.7 %	Pass
Face Horizontal	51.7 %	Pass
Mount Pipe	29.6 %	Pass
Mod Support Rail	16.6 %	Pass
Mod Support Rail Corner	29.6 %	Pass

Structure Rating – (Controlling Utilization of all Components)	75.5%
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Recommendation:

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

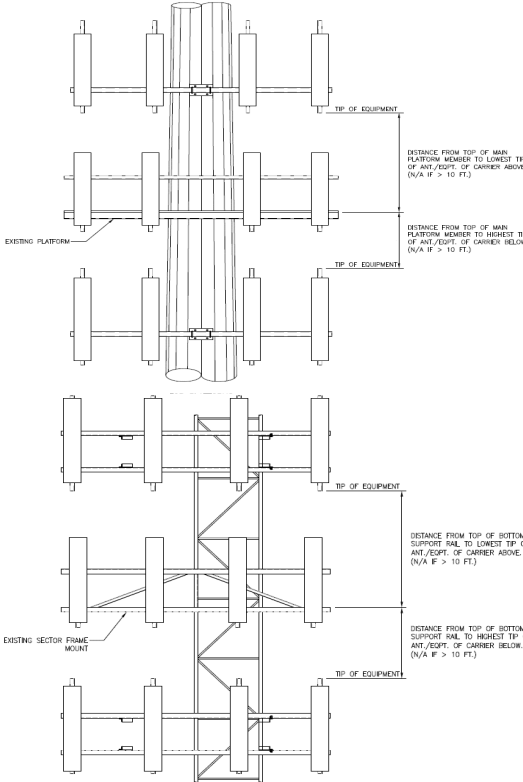
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

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



Mount Azimuth (Degree) for Each Sector		Tower Leg Azimuth (Degree) for Each Sector		Sector B																			
Sector A:	Deg	Leg A:	Deg	Ant																			
Sector B:	Deg	Leg B:	Deg	Ant _{1b}																			
Sector C:	Deg	Leg C:	Deg	Ant _{1c}																			
Sector D:	Deg	Leg D:	Deg	Ant																			
Climbing Facility Information				Ant _{2b}																			
Location:	Deg			Ant _{2c}																			
Climbing Facility	Corrosion Type:			Ant																			
	Access:	Climbing path was unobstructed.			Ant _{3b}																		
	Condition:	Good condition.			Ant _{3c}																		
				Ant																			
				Ant _{4b}																			
				Ant _{4c}																			
				Ant																			
				Ant _{5b}																			
				Ant _{5c}																			
				Ant on Standoff																			
				Ant on Standoff																			
				Ant on Tower																			
				Ant on Tower																			
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				Ant																			
				Ant _{5b}																			
				Ant _{5c}																			
				Ant on Standoff																			
				Ant on Standoff																			
				Ant on Tower																			
				Ant on Tower																			



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

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.

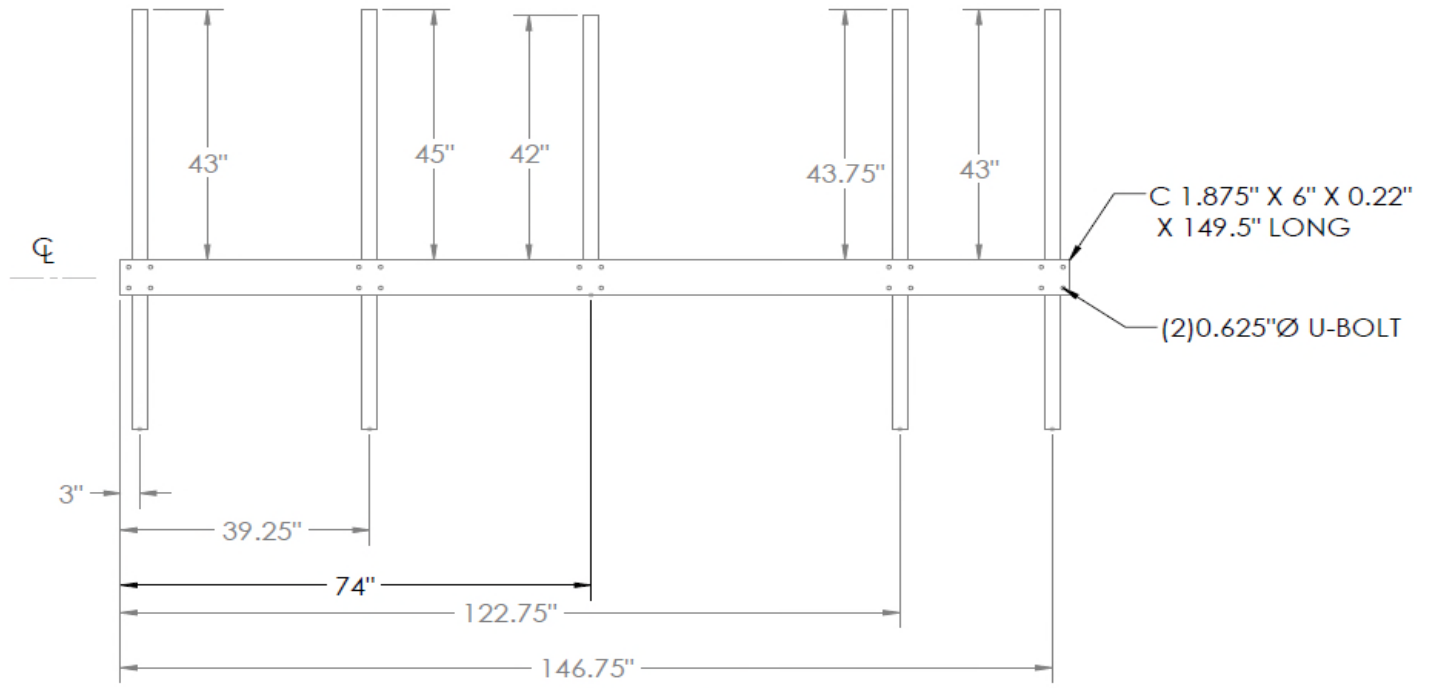


Antenna Mount Mapping Form (PATENT PENDING)

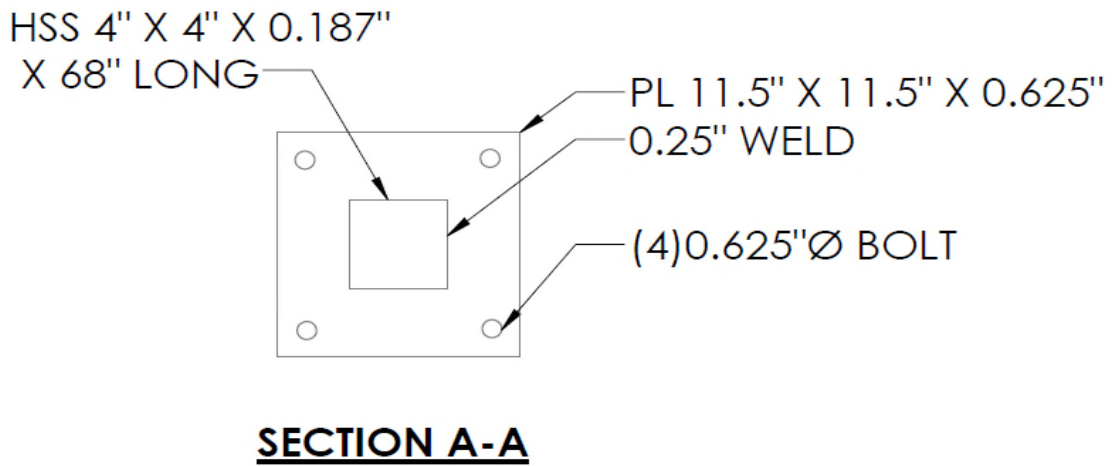
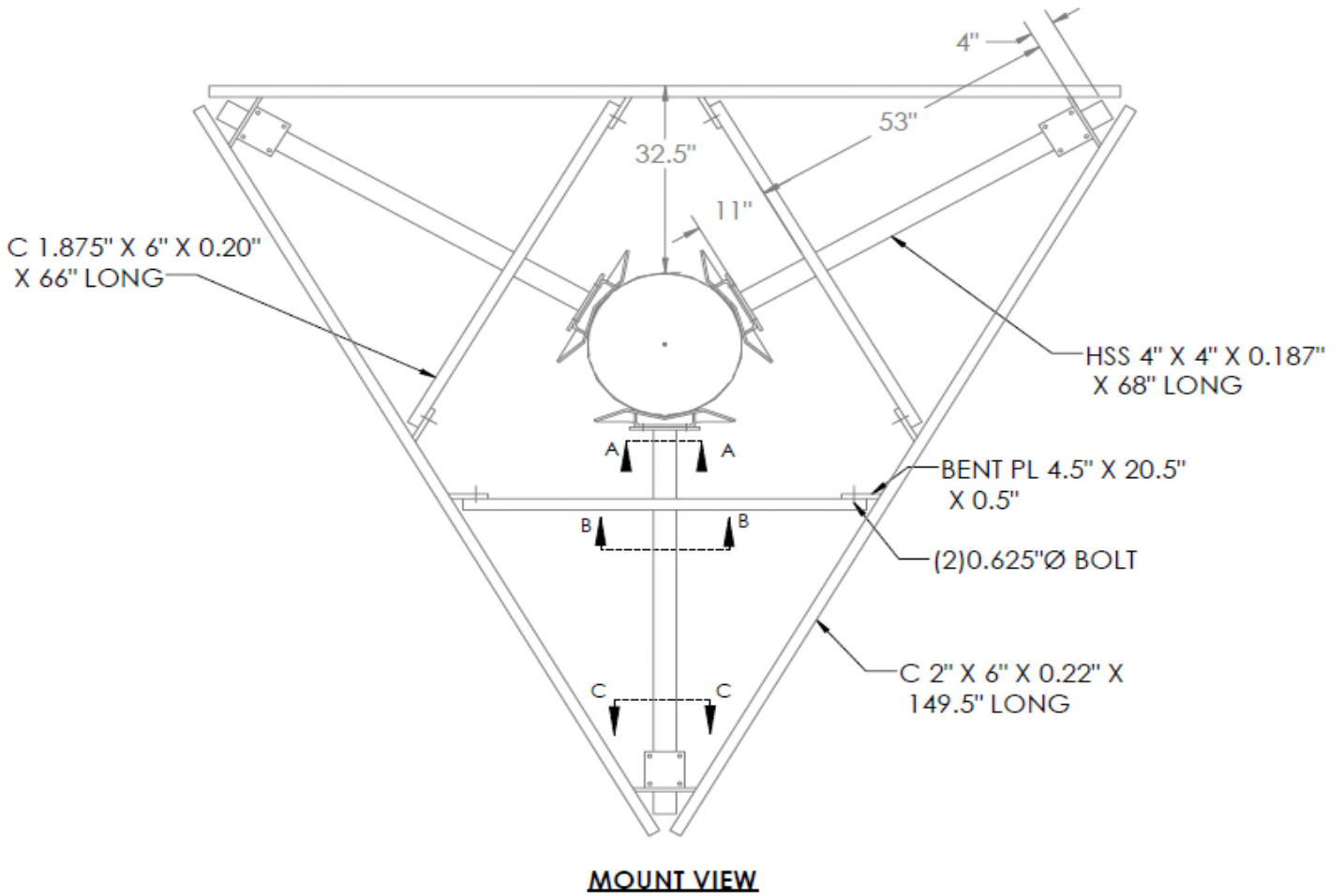
Tower Owner:	SBA	Mapping Date:	4/3/2021
Site Name:	VZW:MARLBOROUGH EAST CT	Tower Type:	Monopole
Site Number or ID:	SBA:CT13062	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering LLC	Mount Elevation (Ft.):	162.33

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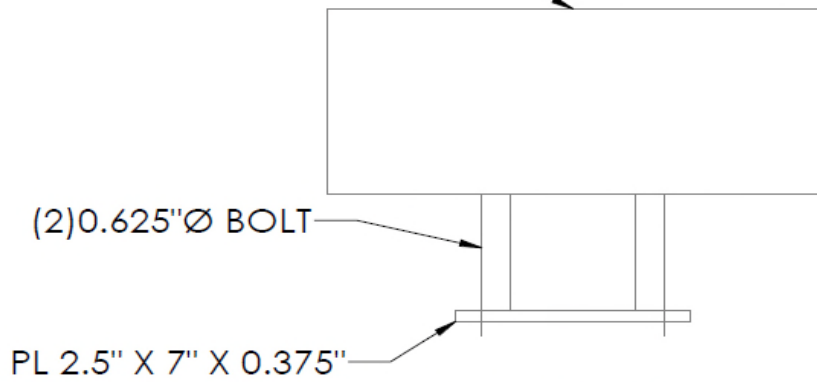
Please Insert Sketches of the Antenna Mount



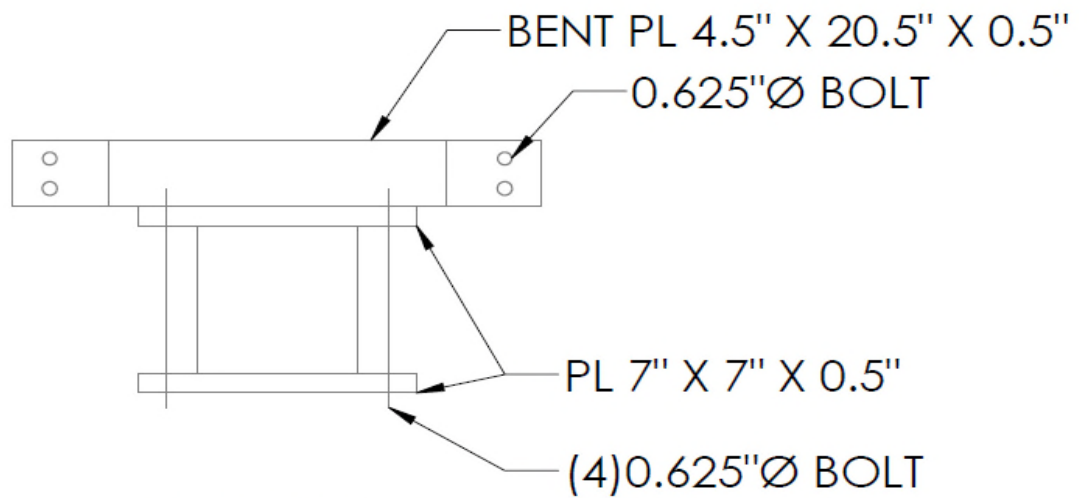
SECTOR A,B & C



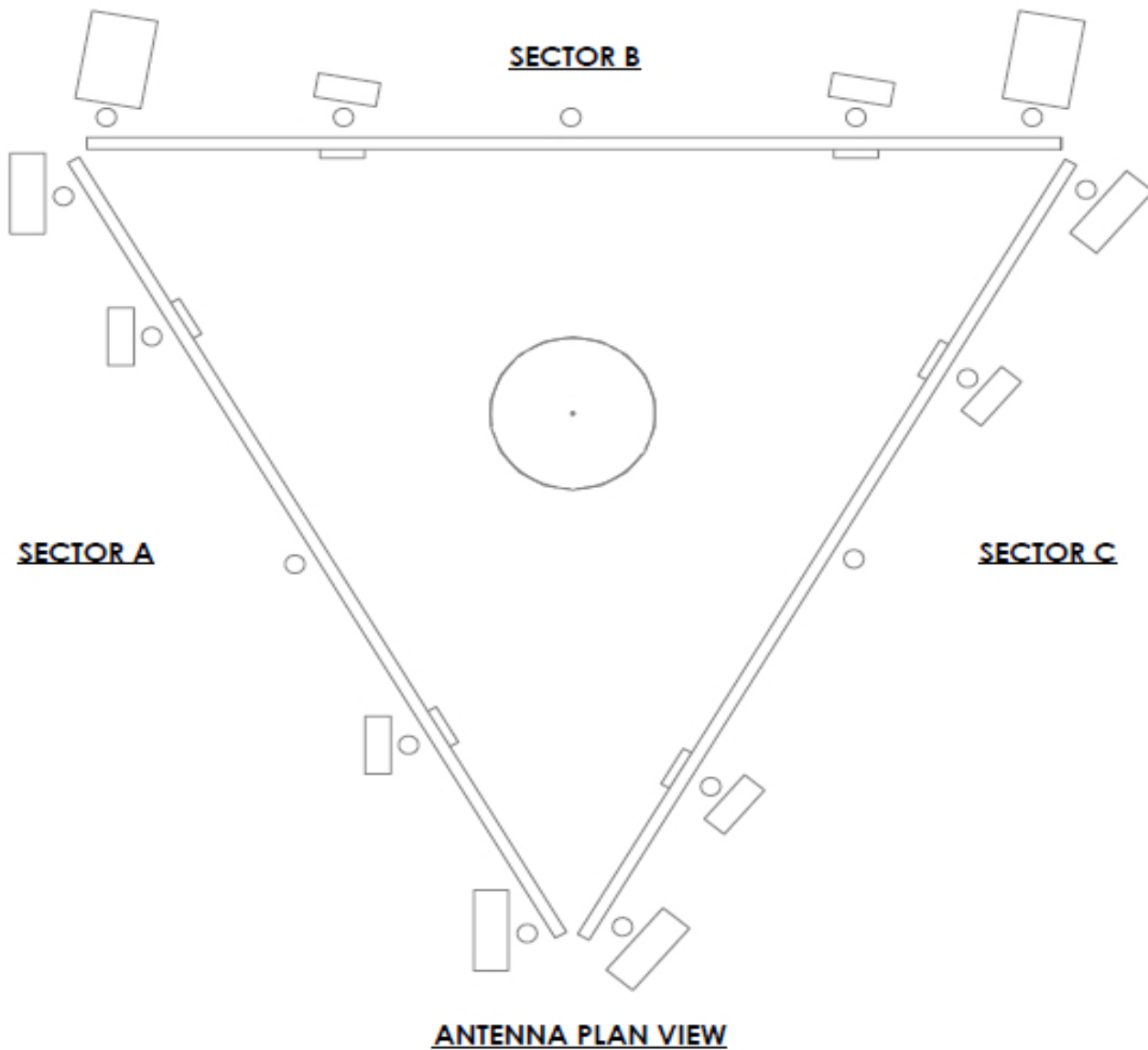
C 1.875" X 6" X 0.20"
X 66" LONG

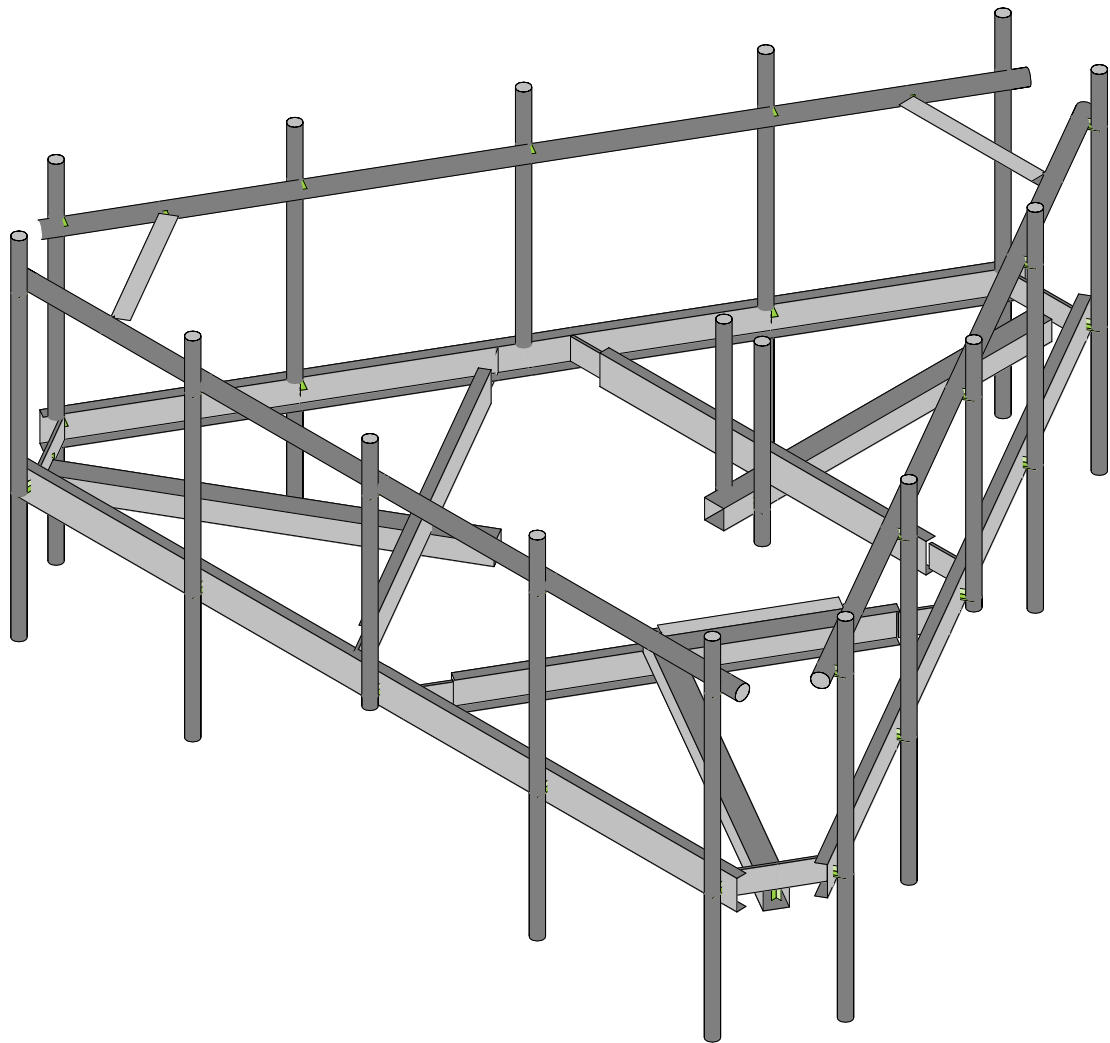
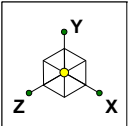


SECTION B-B



SECTION C-C



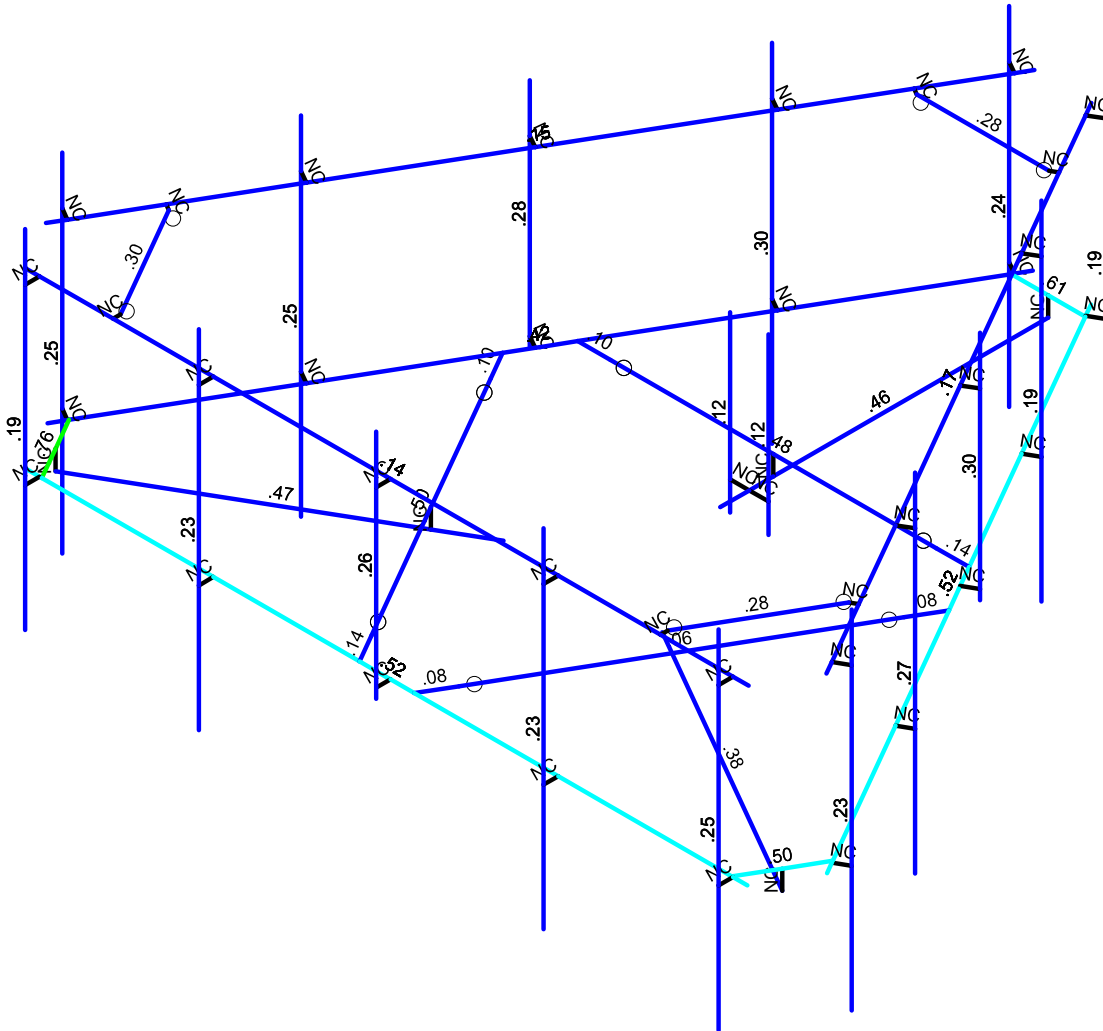
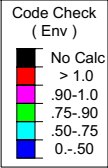
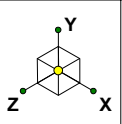


Envelope Only Solution

Maser Consulting
Project No. 10106645

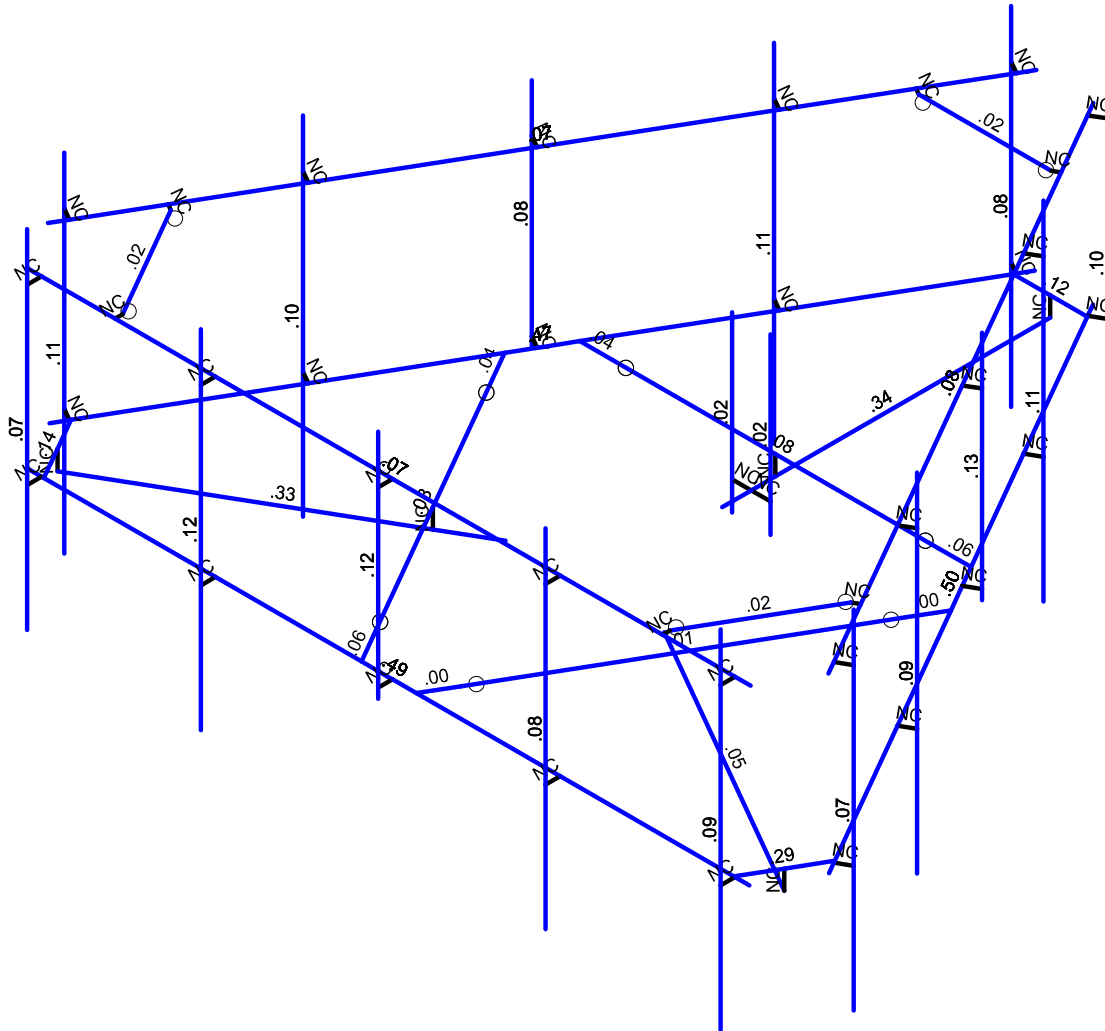
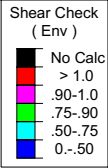
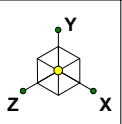
468156-VZW_MT_LO_H

SK - 1
Oct 7, 2021 at 9:32 AM
468156-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	468156-VZW_MT_LO_H	SK - 2
		Oct 7, 2021 at 9:32 AM
Project No. 10106645		468156-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	468156-VZW_MT_LO_H	SK - 3
		Oct 7, 2021 at 9:32 AM
Project No. 10106645		468156-VZW_MT_LO_H.r3d



Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					105		
2	Antenna Di	None					105		
3	Antenna Wo (0 Deg)	None					105		
4	Antenna Wo (30 Deg)	None					105		
5	Antenna Wo (60 Deg)	None					105		
6	Antenna Wo (90 Deg)	None					105		
7	Antenna Wo (120 Deg)	None					105		
8	Antenna Wo (150 Deg)	None					105		
9	Antenna Wo (180 Deg)	None					105		
10	Antenna Wo (210 Deg)	None					105		
11	Antenna Wo (240 Deg)	None					105		
12	Antenna Wo (270 Deg)	None					105		
13	Antenna Wo (300 Deg)	None					105		
14	Antenna Wo (330 Deg)	None					105		
15	Antenna Wi (0 Deg)	None					105		
16	Antenna Wi (30 Deg)	None					105		
17	Antenna Wi (60 Deg)	None					105		
18	Antenna Wi (90 Deg)	None					105		
19	Antenna Wi (120 Deg)	None					105		
20	Antenna Wi (150 Deg)	None					105		
21	Antenna Wi (180 Deg)	None					105		
22	Antenna Wi (210 Deg)	None					105		
23	Antenna Wi (240 Deg)	None					105		
24	Antenna Wi (270 Deg)	None					105		
25	Antenna Wi (300 Deg)	None					105		
26	Antenna Wi (330 Deg)	None					105		
27	Antenna Wm (0 Deg)	None					105		
28	Antenna Wm (30 Deg)	None					105		
29	Antenna Wm (60 Deg)	None					105		
30	Antenna Wm (90 Deg)	None					105		
31	Antenna Wm (120 Deg)	None					105		
32	Antenna Wm (150 Deg)	None					105		
33	Antenna Wm (180 Deg)	None					105		
34	Antenna Wm (210 Deg)	None					105		
35	Antenna Wm (240 Deg)	None					105		
36	Antenna Wm (270 Deg)	None					105		
37	Antenna Wm (300 Deg)	None					105		
38	Antenna Wm (330 Deg)	None					105		
39	Structure D	None		-1				41	3
40	Structure Di	None						82	3
41	Structure Wo (0 Deg)	None						82	
42	Structure Wo (30 Deg)	None						82	
43	Structure Wo (60 Deg)	None						82	
44	Structure Wo (90 Deg)	None						82	
45	Structure Wo (120 D...	None						82	
46	Structure Wo (150 D...	None						82	
47	Structure Wo (180 D...	None						82	
48	Structure Wo (210 D...	None						82	
49	Structure Wo (240 D...	None						82	
50	Structure Wo (270 D...	None						82	
51	Structure Wo (300 D...	None						82	
52	Structure Wo (330 D...	None						82	
53	Structure Wi (0 Deg)	None						82	
54	Structure Wi (30 Deg)	None						82	
55	Structure Wi (60 Deg)	None						82	
56	Structure Wi (90 Deg)	None						82	



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

Load Combinations

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



Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N2	-0.	0	-1.583333	0	
3	N5	-0.	0	-2.5	0	
4	N6A	-0.	0	-7.25	0	
5	N7	-0.	0.333333	-7.25	0	
6	N56	-2.816626	0.333333	-2.5	0	
7	N57	2.816626	0.333333	-2.5	0	
8	N54A	-0.	0.333333	-2.5	0	
9	N111A	0.637892	0.333333	-7.25	0	
10	N112A	-0.637892	0.333333	-7.25	0	
11	N106A	-3.380305	0.333333	-2.5	0	
12	N14	-1.371207	0	0.791667	0	
13	N15	-2.165064	0	1.25	0	
14	N16	-6.278684	0	3.625	0	



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N17	-6.278684	0.333333	3.625	0	
16	N18	-0.756751	0.333333	3.68927	0	
17	N19	-3.573376	0.333333	-1.18927	0	
18	N20	-2.165064	0.333333	1.25	0	
19	N21	-6.59763	0.333333	3.07257	0	
20	N22	-5.959738	0.333333	4.17743	0	
21	N23	-3.855216	0.333333	-1.67743	0	
22	N26	1.371207	0	0.791667	0	
23	N28	6.278684	0	3.625	0	
24	N29	6.278684	0.333333	3.625	0	
25	N33	5.959738	0.333333	4.17743	0	
26	N34	6.59763	0.333333	3.07257	0	
27	N30	-0.474911	0.333333	4.17743	0	
28	N31	0.756751	0.333333	3.68927	0	
29	N32	0.474911	0.333333	4.17743	0	
30	N34A	3.573376	0.333333	-1.18927	0	
31	N35	3.855216	0.333333	-1.67743	0	
32	N37	3.380305	0.333333	-2.5	0	
33	N33A	0.	0.333333	4.17743	0	
34	N34B	6.229167	0.333333	4.17743	0	
35	N35A	-6.229167	0.333333	4.17743	0	
36	N37A	3.617761	0.333333	-2.088715	0	
37	N38	0.503178	0.333333	-7.483332	0	
38	N39	6.732344	0.333333	3.305901	0	
39	N41	-3.617761	0.333333	-2.088715	0	
40	N42	-6.732344	0.333333	3.305901	0	
41	N43	-0.503178	0.333333	-7.483332	0	
42	N42A	5.979167	0.333333	4.17743	0	
43	N43A	5.979167	0.333333	4.42743	0	
44	N44	5.979167	4.166667	4.42743	0	
45	N45	5.979167	-1.833333	4.42743	0	
46	N46	2.958333	0.333333	4.17743	0	
47	N47	2.958333	0.333333	4.42743	0	
48	N48	2.958333	4.166667	4.42743	0	
49	N49	2.958333	-1.833333	4.42743	0	
50	N50	0.0625	0.333333	4.17743	0	
51	N51	0.0625	0.333333	4.42743	0	
52	N52	0.0625	4.166667	4.42743	0	
53	N53	0.0625	0.166667	4.42743	0	
54	N54	-3	0.333333	4.17743	0	
55	N55	-3	0.333333	4.42743	0	
56	N56A	-3	4.166667	4.42743	0	
57	N57A	-3	-1.833333	4.42743	0	
58	N58	-6	0.333333	4.17743	0	
59	N59	-6	0.333333	4.42743	0	
60	N60	-6	4.166667	4.42743	0	
61	N61	-6	-1.833333	4.42743	0	
62	N63	0.628178	0.333333	-7.266825	0	
63	N64	0.844684	0.333333	-7.391825	0	
64	N65	0.844684	4.166667	-7.391825	0	
65	N66	0.844684	-1.833333	-7.391825	0	
66	N67	2.138594	0.333333	-4.650707	0	
67	N68	2.355101	0.333333	-4.775707	0	
68	N69	2.355101	4.166667	-4.775707	0	
69	N70	2.355101	-1.833333	-4.775707	0	
70	N71	3.586511	0.333333	-2.142842	0	
71	N72	3.803017	0.333333	-2.267842	0	



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N73	3.803017	4.166667	-2.267842	0	
73	N74	3.803017	0.166667	-2.267842	0	
74	N75	5.117761	0.333333	0.509361	0	
75	N76	5.334267	0.333333	0.384361	0	
76	N77	5.334267	4.166667	0.384361	0	
77	N78	5.334267	-1.833333	0.384361	0	
78	N79	6.617761	0.333333	3.107437	0	
79	N80	6.834267	0.333333	2.982437	0	
80	N81	6.834267	4.166667	2.982437	0	
81	N82	6.834267	-1.833333	2.982437	0	
82	N84	-6.607344	0.333333	3.089395	0	
83	N85	-6.823851	0.333333	2.964395	0	
84	N86	-6.823851	4.166667	2.964395	0	
85	N87	-6.823851	-1.833333	2.964395	0	
86	N88	-5.096928	0.333333	0.473277	0	
87	N89	-5.313434	0.333333	0.348277	0	
88	N90	-5.313434	4.166667	0.348277	0	
89	N91	-5.313434	-1.833333	0.348277	0	
90	N92	-3.649011	0.333333	-2.034589	0	
91	N93	-3.865517	0.333333	-2.159589	0	
92	N94	-3.865517	4.166667	-2.159589	0	
93	N95	-3.865517	0.166667	-2.159589	0	
94	N96	-2.117761	0.333333	-4.686791	0	
95	N97	-2.334267	0.333333	-4.811791	0	
96	N98	-2.334267	4.166667	-4.811791	0	
97	N99	-2.334267	-1.833333	-4.811791	0	
98	N100	-0.617761	0.333333	-7.284868	0	
99	N101	-0.834267	0.333333	-7.409868	0	
100	N102	-0.834267	4.166667	-7.409868	0	
101	N103	-0.834267	-1.833333	-7.409868	0	
102	N102A	-0.	0	-2.083333	0	
103	N103A	0.333333	0	-2.083333	0	
104	N104	0.333333	-.5	-2.083333	0	
105	N105	0.333333	2.5	-2.083333	0	
106	N110A	6.25	3.333333	4.17743	0	
107	N111	-6.25	3.333333	4.17743	0	
108	N112	5.979167	3.333333	4.17743	0	
109	N113	5.979167	3.333333	4.42743	0	
110	N114	2.958333	3.333333	4.17743	0	
111	N115	2.958333	3.333333	4.42743	0	
112	N116	0.0625	3.333333	4.17743	0	
113	N117	0.0625	3.333333	4.42743	0	
114	N118	-3	3.333333	4.17743	0	
115	N119	-3	3.333333	4.42743	0	
116	N120	-6	3.333333	4.17743	0	
117	N121	-6	3.333333	4.42743	0	
118	N126A	-4.729167	3.333333	4.17743	0	
119	N127A	4.729167	3.333333	4.17743	0	
120	N128	-4.729167	3.333333	4.05243	0	
121	N129	4.729167	3.333333	4.05243	0	
122	N131	5.982344	3.333333	2.006863	0	
123	N132	1.253178	3.333333	-6.184294	0	
124	N133	5.874091	3.333333	2.069363	0	
125	N134	1.144924	3.333333	-6.121794	0	
126	N136	-1.253178	3.333333	-6.184294	0	
127	N137	-5.982344	3.333333	2.006863	0	
128	N138	-1.144924	3.333333	-6.121794	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
129	N139	-5.874091	3.333333	2.069363	0	
130	N135	0.492761	3.333333	-7.501374	0	
131	N136A	6.742761	3.333333	3.323944	0	
132	N138A	-6.742761	3.333333	3.323944	0	
133	N139A	-0.492761	3.333333	-7.501374	0	
134	N138B	0.	3.333333	4.17743	0	
135	N152A	0.628178	3.333333	-7.266825	0	
136	N153	0.844684	3.333333	-7.391825	0	
137	N154	2.138594	3.333333	-4.650707	0	
138	N155	2.355101	3.333333	-4.775707	0	
139	N156	3.586511	3.333333	-2.142842	0	
140	N157	3.803017	3.333333	-2.267842	0	
141	N158	5.117761	3.333333	0.509361	0	
142	N159	5.334267	3.333333	0.384361	0	
143	N160	6.617761	3.333333	3.107437	0	
144	N161	6.834267	3.333333	2.982437	0	
145	N163	-6.607344	3.333333	3.089395	0	
146	N164	-6.823851	3.333333	2.964395	0	
147	N165	-5.096928	3.333333	0.473277	0	
148	N166	-5.313434	3.333333	0.348277	0	
149	N167	-3.649011	3.333333	-2.034589	0	
150	N168	-3.865517	3.333333	-2.159589	0	
151	N169	-2.117761	3.333333	-4.686791	0	
152	N170	-2.334267	3.333333	-4.811791	0	
153	N171	-0.617761	3.333333	-7.284868	0	
154	N172	-0.834267	3.333333	-7.409868	0	
155	N160A	-0.333333	0	-2.083333	0	
156	N161A	-0.333333	-.5	-2.083333	0	
157	N162	-0.333333	2.5	-2.083333	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	C6X8.2	Beam	Channel	A36 Gr.36	Typical	2.39	.687	13.1	.074
3	Crossmember	C6X8.2	Beam	Channel	A36 Gr.36	Typical	2.39	.687	13.1	.074
4	Standoff Horizo...	HSS4X4X3	Beam	SquareTube	A500 Gr. B 46	Typical	2.58	6.21	6.21	10
5	TES Plate	PL1/2x4.5	Beam	RECT	A36 Gr.36	Typical	2.25	.047	3.797	.174
6	Middle Plate	PL1/2x4.5	Beam	RECT	A36 Gr.36	Typical	2.25	.047	3.797	.174
7	Mod Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
8	Mod Support Ra...	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Hot Rolled Steel Properties

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



Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N6A			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
2	M2	N7	N6A			RIGID	None	None	RIGID	Typical
3	M4	N112A	N111A			Middle Plate	Beam	RECT	A36 Gr.36	Typical
4	M31A	N106A	N56			Middle Plate	Beam	RECT	A36 Gr.36	Typical
5	M33	N56	N57		180	Crossmember	Beam	Channel	A36 Gr.36	Typical
6	M36	N54A	N5			RIGID	None	None	RIGID	Typical
7	M8	N14	N16			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
8	M9	N17	N16			RIGID	None	None	RIGID	Typical
9	M10	N22	N21			Middle Plate	Beam	RECT	A36 Gr.36	Typical
10	M12	N19	N23			Middle Plate	Beam	RECT	A36 Gr.36	Typical
11	M13	N18	N19		180	Crossmember	Beam	Channel	A36 Gr.36	Typical
12	M14	N20	N15			RIGID	None	None	RIGID	Typical
13	M15	N26	N28			Standoff Horiz...	Beam	SquareTube	A500 Gr. ...	Typical
14	M16	N29	N28			RIGID	None	None	RIGID	Typical
15	M17	N34	N33			Middle Plate	Beam	RECT	A36 Gr.36	Typical
16	M18	N30	N18			Middle Plate	Beam	RECT	A36 Gr.36	Typical
17	M19	N31	N32			Middle Plate	Beam	RECT	A36 Gr.36	Typical
18	M20	N35	N34A			Middle Plate	Beam	RECT	A36 Gr.36	Typical
19	M21	N57	N37			Middle Plate	Beam	RECT	A36 Gr.36	Typical
20	M22A	N34A	N31		180	Crossmember	Beam	Channel	A36 Gr.36	Typical
21	M21A	N35A	N34B		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
22	M22	N39	N38		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
23	M23	N43	N42		180	Face Horizontal	Beam	Channel	A36 Gr.36	Typical
24	M24	N42A	N43A			RIGID	None	None	RIGID	Typical
25	MP1A	N44	N45			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
26	M26	N46	N47			RIGID	None	None	RIGID	Typical
27	MP2A	N48	N49			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
28	M28	N50	N51			RIGID	None	None	RIGID	Typical
29	MP3A	N52	N53			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
30	M30	N54	N55			RIGID	None	None	RIGID	Typical
31	MP4A	N56A	N57A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
32	M32	N58	N59			RIGID	None	None	RIGID	Typical
33	MP5A	N60	N61			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
34	M34	N63	N64			RIGID	None	None	RIGID	Typical
35	MP1C	N65	N66			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
36	M36A	N67	N68			RIGID	None	None	RIGID	Typical
37	MP2C	N69	N70			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
38	M38	N71	N72			RIGID	None	None	RIGID	Typical
39	MP3C	N73	N74			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
40	M40	N75	N76			RIGID	None	None	RIGID	Typical
41	MP4C	N77	N78			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
42	M42	N79	N80			RIGID	None	None	RIGID	Typical
43	MP5C	N81	N82			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
44	M44	N84	N85			RIGID	None	None	RIGID	Typical
45	MP1B	N86	N87			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
46	M46	N88	N89			RIGID	None	None	RIGID	Typical
47	MP2B	N90	N91			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
48	M48	N92	N93			RIGID	None	None	RIGID	Typical
49	MP3B	N94	N95			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
50	M50	N96	N97			RIGID	None	None	RIGID	Typical
51	MP4B	N98	N99			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
52	M52	N100	N101			RIGID	None	None	RIGID	Typical
53	MP5B	N102	N103			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
54	M54	N102A	N103A			RIGID	None	None	RIGID	Typical
55	M55	N105	N104			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
56	M58	N111	N110A		180	Mod Support ...	Beam	Pipe	A53 Gr. B	Typical



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
57	M59	N112	N113			RIGID	None	None	RIGID	Typical
58	M60	N114	N115			RIGID	None	None	RIGID	Typical
59	M61	N116	N117			RIGID	None	None	RIGID	Typical
60	M62	N118	N119			RIGID	None	None	RIGID	Typical
61	M63	N120	N121			RIGID	None	None	RIGID	Typical
62	M66	N126A	N128			RIGID	None	None	RIGID	Typical
63	M67	N127A	N129			RIGID	None	None	RIGID	Typical
64	M68	N131	N133			RIGID	None	None	RIGID	Typical
65	M69	N132	N134			RIGID	None	None	RIGID	Typical
66	M70	N136	N138			RIGID	None	None	RIGID	Typical
67	M71	N137	N139			RIGID	None	None	RIGID	Typical
68	M72	N128	N139		90	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical
69	M73	N133	N129		90	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical
70	M74	N138	N134		90	Mod Support ...	Beam	Single Angle	A36 Gr.36	Typical
71	M73A	N136A	N135		180	Mod Support ...	Beam	Pipe	A53 Gr. B	Typical
72	M74A	N139A	N138A		180	Mod Support ...	Beam	Pipe	A53 Gr. B	Typical
73	M84	N152A	N153			RIGID	None	None	RIGID	Typical
74	M85	N154	N155			RIGID	None	None	RIGID	Typical
75	M86	N156	N157			RIGID	None	None	RIGID	Typical
76	M87	N158	N159			RIGID	None	None	RIGID	Typical
77	M88	N160	N161			RIGID	None	None	RIGID	Typical
78	M89	N163	N164			RIGID	None	None	RIGID	Typical
79	M90	N165	N166			RIGID	None	None	RIGID	Typical
80	M91	N167	N168			RIGID	None	None	RIGID	Typical
81	M92	N169	N170			RIGID	None	None	RIGID	Typical
82	M93	N171	N172			RIGID	None	None	RIGID	Typical
83	M85A	N102A	N160A			RIGID	None	None	RIGID	Typical
84	M57	N162	N161A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes	** NA **			None
3	M4						Yes				None
4	M31A						Yes				None
5	M33	OOOOXO	OOOOXO				Yes				None
6	M36						Yes	** NA **			None
7	M8						Yes	Default			None
8	M9						Yes	** NA **			None
9	M10						Yes				None
10	M12						Yes	Default			None
11	M13	OOOOXO	OOOOXO				Yes				None
12	M14						Yes	** NA **			None
13	M15						Yes				None
14	M16						Yes	** NA **			None
15	M17						Yes				None
16	M18						Yes	Default			None
17	M19						Yes				None
18	M20						Yes				None
19	M21						Yes				None
20	M22A	OOOOXO	OOOOXO				Yes				None
21	M21A						Yes				None
22	M22						Yes				None
23	M23						Yes				None
24	M24						Yes	** NA **			None



Company : Maser Consulting
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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
25	MP1A						Yes	** NA **			None
26	M26						Yes	** NA **			None
27	MP2A						Yes	** NA **			None
28	M28						Yes	** NA **			None
29	MP3A						Yes	** NA **			None
30	M30						Yes	** NA **			None
31	MP4A						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	MP5A						Yes	** NA **			None
34	M34						Yes	** NA **			None
35	MP1C						Yes	** NA **			None
36	M36A						Yes	** NA **			None
37	MP2C						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	MP3C						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	MP4C						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	MP5C						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	MP1B						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	MP2B						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	MP3B						Yes	** NA **			None
50	M50						Yes	** NA **			None
51	MP4B						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	MP5B						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M58						Yes	** NA **			None
57	M59						Yes	** NA **			None
58	M60						Yes	** NA **			None
59	M61						Yes	** NA **			None
60	M62						Yes	** NA **			None
61	M63						Yes	** NA **			None
62	M66	OOOOOX					Yes	** NA **			None
63	M67	OOOOOX					Yes	** NA **			None
64	M68	OOOOOX					Yes	** NA **			None
65	M69	OOOOOX					Yes	** NA **			None
66	M70	OOOOOX					Yes	** NA **			None
67	M71	OOOOOX					Yes	** NA **			None
68	M72						Yes	** NA **			None
69	M73						Yes	** NA **			None
70	M74						Yes	** NA **			None
71	M73A						Yes	** NA **			None
72	M74A						Yes	** NA **			None
73	M84						Yes	** NA **			None
74	M85						Yes	** NA **			None
75	M86						Yes	** NA **			None
76	M87						Yes	** NA **			None
77	M88						Yes	** NA **			None
78	M89						Yes	** NA **			None
79	M90						Yes	** NA **			None
80	M91						Yes	** NA **			None
81	M92						Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic...
82	M93						Yes	** NA **			None
83	M85A						Yes	** NA **			None
84	M57						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	Y	-21.85	.25
2	MP4A	My	-.003	.25
3	MP4A	Mz	-.017	.25
4	MP4A	Y	-21.85	4.75
5	MP4A	My	-.003	4.75
6	MP4A	Mz	-.017	4.75
7	MP4B	Y	-21.85	.25
8	MP4B	My	.016	.25
9	MP4B	Mz	.006	.25
10	MP4B	Y	-21.85	4.75
11	MP4B	My	.016	4.75
12	MP4B	Mz	.006	4.75
13	MP4C	Y	-21.85	.25
14	MP4C	My	-.013	.25
15	MP4C	Mz	.011	.25
16	MP4C	Y	-21.85	4.75
17	MP4C	My	-.013	4.75
18	MP4C	Mz	.011	4.75
19	MP4A	Y	-32.3	.25
20	MP4A	My	-.023	.25
21	MP4A	Mz	.008	.25
22	MP4A	Y	-32.3	4.75
23	MP4A	My	-.023	4.75
24	MP4A	Mz	.008	4.75
25	MP4B	Y	-32.3	.25
26	MP4B	My	.005	.25
27	MP4B	Mz	-.024	.25
28	MP4B	Y	-32.3	4.75
29	MP4B	My	.005	4.75
30	MP4B	Mz	-.024	4.75
31	MP4C	Y	-32.3	.25
32	MP4C	My	.019	.25
33	MP4C	Mz	.016	.25
34	MP4C	Y	-32.3	4.75
35	MP4C	My	.019	4.75
36	MP4C	Mz	.016	4.75
37	MP5A	Y	-43.55	1.5
38	MP5A	My	-.019	1.5
39	MP5A	Mz	-.011	1.5
40	MP5A	Y	-43.55	3.5
41	MP5A	My	-.019	3.5
42	MP5A	Mz	-.011	3.5
43	MP5B	Y	-43.55	1.5
44	MP5B	My	.019	1.5
45	MP5B	Mz	-.011	1.5
46	MP5B	Y	-43.55	3.5
47	MP5B	My	.019	3.5
48	MP5B	Mz	-.011	3.5
49	MP5C	Y	-43.55	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
50	MP5C	My	0	1.5
51	MP5C	Mz	.022	1.5
52	MP5C	Y	-43.55	3.5
53	MP5C	My	0	3.5
54	MP5C	Mz	.022	3.5
55	M55	Y	-32	1
56	M55	My	0	1
57	M55	Mz	0	1
58	MP4A	Y	-18.7	.5
59	MP4A	My	.008	.5
60	MP4A	Mz	.005	.5
61	MP4B	Y	-18.7	.5
62	MP4B	My	-.008	.5
63	MP4B	Mz	.005	.5
64	MP4C	Y	-18.7	.5
65	MP4C	My	0	.5
66	MP4C	Mz	-.009	.5
67	MP3A	Y	-74.7	2.5
68	MP3A	My	.032	2.5
69	MP3A	Mz	.019	2.5
70	MP3B	Y	-74.7	2.5
71	MP3B	My	-.032	2.5
72	MP3B	Mz	.019	2.5
73	MP3C	Y	-74.7	2.5
74	MP3C	My	0	2.5
75	MP3C	Mz	-.037	2.5
76	MP4A	Y	-70.3	2.5
77	MP4A	My	.03	2.5
78	MP4A	Mz	.018	2.5
79	MP4B	Y	-70.3	2.5
80	MP4B	My	-.03	2.5
81	MP4B	Mz	.018	2.5
82	MP4C	Y	-70.3	2.5
83	MP4C	My	0	2.5
84	MP4C	Mz	-.035	2.5
85	MP2A	Y	-8.5	.5
86	MP2A	My	-.004	.5
87	MP2A	Mz	-.002	.5
88	MP2A	Y	-8.5	4.5
89	MP2A	My	-.004	4.5
90	MP2A	Mz	-.002	4.5
91	MP2C	Y	-8.5	.5
92	MP2C	My	0	.5
93	MP2C	Mz	.004	.5
94	MP2C	Y	-8.5	4.5
95	MP2C	My	0	4.5
96	MP2C	Mz	.004	4.5
97	M57	Y	-32	1
98	M57	My	0	1
99	M57	Mz	0	1
100	MP2B	Y	-9	.5
101	MP2B	My	.004	.5
102	MP2B	Mz	-.002	.5
103	MP2B	Y	-9	4.5
104	MP2B	My	.004	4.5
105	MP2B	Mz	-.002	4.5



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	Y	-61.813	.25
2	MP4A	My	-.009	.25
3	MP4A	Mz	-.047	.25
4	MP4A	Y	-61.813	4.75
5	MP4A	My	-.009	4.75
6	MP4A	Mz	-.047	4.75
7	MP4B	Y	-61.813	.25
8	MP4B	My	.045	.25
9	MP4B	Mz	.016	.25
10	MP4B	Y	-61.813	4.75
11	MP4B	My	.045	4.75
12	MP4B	Mz	.016	4.75
13	MP4C	Y	-61.813	.25
14	MP4C	My	-.036	.25
15	MP4C	Mz	.031	.25
16	MP4C	Y	-61.813	4.75
17	MP4C	My	-.036	4.75
18	MP4C	Mz	.031	4.75
19	MP4A	Y	-61.813	.25
20	MP4A	My	-.045	.25
21	MP4A	Mz	.016	.25
22	MP4A	Y	-61.813	4.75
23	MP4A	My	-.045	4.75
24	MP4A	Mz	.016	4.75
25	MP4B	Y	-61.813	.25
26	MP4B	My	.009	.25
27	MP4B	Mz	-.047	.25
28	MP4B	Y	-61.813	4.75
29	MP4B	My	.009	4.75
30	MP4B	Mz	-.047	4.75
31	MP4C	Y	-61.813	.25
32	MP4C	My	.036	.25
33	MP4C	Mz	.031	.25
34	MP4C	Y	-61.813	4.75
35	MP4C	My	.036	4.75
36	MP4C	Mz	.031	4.75
37	MP5A	Y	-36.336	1.5
38	MP5A	My	-.016	1.5
39	MP5A	Mz	-.009	1.5
40	MP5A	Y	-36.336	3.5
41	MP5A	My	-.016	3.5
42	MP5A	Mz	-.009	3.5
43	MP5B	Y	-36.336	1.5
44	MP5B	My	.016	1.5
45	MP5B	Mz	-.009	1.5
46	MP5B	Y	-36.336	3.5
47	MP5B	My	.016	3.5
48	MP5B	Mz	-.009	3.5
49	MP5C	Y	-36.336	1.5
50	MP5C	My	0	1.5
51	MP5C	Mz	.018	1.5
52	MP5C	Y	-36.336	3.5
53	MP5C	My	0	3.5
54	MP5C	Mz	.018	3.5
55	M55	Y	-77.475	1
56	M55	My	0	1
57	M55	Mz	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP4A	Y	-20.273	.5
59	MP4A	My	.009	.5
60	MP4A	Mz	.005	.5
61	MP4B	Y	-20.273	.5
62	MP4B	My	-.009	.5
63	MP4B	Mz	.005	.5
64	MP4C	Y	-20.273	.5
65	MP4C	My	0	.5
66	MP4C	Mz	-.01	.5
67	MP3A	Y	-45.824	2.5
68	MP3A	My	.02	2.5
69	MP3A	Mz	.011	2.5
70	MP3B	Y	-45.824	2.5
71	MP3B	My	-.02	2.5
72	MP3B	Mz	.011	2.5
73	MP3C	Y	-45.824	2.5
74	MP3C	My	0	2.5
75	MP3C	Mz	-.023	2.5
76	MP4A	Y	-43.642	2.5
77	MP4A	My	.019	2.5
78	MP4A	Mz	.011	2.5
79	MP4B	Y	-43.642	2.5
80	MP4B	My	-.019	2.5
81	MP4B	Mz	.011	2.5
82	MP4C	Y	-43.642	2.5
83	MP4C	My	0	2.5
84	MP4C	Mz	-.022	2.5
85	MP2A	Y	-52.808	.5
86	MP2A	My	-.023	.5
87	MP2A	Mz	-.013	.5
88	MP2A	Y	-52.808	4.5
89	MP2A	My	-.023	4.5
90	MP2A	Mz	-.013	4.5
91	MP2C	Y	-52.808	.5
92	MP2C	My	0	.5
93	MP2C	Mz	.026	.5
94	MP2C	Y	-52.808	4.5
95	MP2C	My	0	4.5
96	MP2C	Mz	.026	4.5
97	M57	Y	-77.475	1
98	M57	My	0	1
99	M57	Mz	0	1
100	MP2B	Y	-45.453	.5
101	MP2B	My	.02	.5
102	MP2B	Mz	-.011	.5
103	MP2B	Y	-45.453	4.5
104	MP2B	My	.02	4.5
105	MP2B	Mz	-.011	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	.25
2	MP4A	Z	-131.445	.25
3	MP4A	Mx	.099	.25
4	MP4A	X	0	4.75
5	MP4A	Z	-131.445	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	.099	4.75
7	MP4B	X	0	.25
8	MP4B	Z	-131.445	.25
9	MP4B	Mx	-.034	.25
10	MP4B	X	0	4.75
11	MP4B	Z	-131.445	4.75
12	MP4B	Mx	-.034	4.75
13	MP4C	X	0	.25
14	MP4C	Z	-94.942	.25
15	MP4C	Mx	-.047	.25
16	MP4C	X	0	4.75
17	MP4C	Z	-94.942	4.75
18	MP4C	Mx	-.047	4.75
19	MP4A	X	0	.25
20	MP4A	Z	-131.045	.25
21	MP4A	Mx	-.033	.25
22	MP4A	X	0	4.75
23	MP4A	Z	-131.045	4.75
24	MP4A	Mx	-.033	4.75
25	MP4B	X	0	.25
26	MP4B	Z	-131.045	.25
27	MP4B	Mx	.099	.25
28	MP4B	X	0	4.75
29	MP4B	Z	-131.045	4.75
30	MP4B	Mx	.099	4.75
31	MP4C	X	0	.25
32	MP4C	Z	-94.942	.25
33	MP4C	Mx	-.047	.25
34	MP4C	X	0	4.75
35	MP4C	Z	-94.942	4.75
36	MP4C	Mx	-.047	4.75
37	MP5A	X	0	1.5
38	MP5A	Z	-70.829	1.5
39	MP5A	Mx	.018	1.5
40	MP5A	X	0	3.5
41	MP5A	Z	-70.829	3.5
42	MP5A	Mx	.018	3.5
43	MP5B	X	0	1.5
44	MP5B	Z	-70.829	1.5
45	MP5B	Mx	.018	1.5
46	MP5B	X	0	3.5
47	MP5B	Z	-70.829	3.5
48	MP5B	Mx	.018	3.5
49	MP5C	X	0	1.5
50	MP5C	Z	-32.705	1.5
51	MP5C	Mx	-.016	1.5
52	MP5C	X	0	3.5
53	MP5C	Z	-32.705	3.5
54	MP5C	Mx	-.016	3.5
55	M55	X	0	1
56	M55	Z	-134.726	1
57	M55	Mx	0	1
58	MP4A	X	0	.5
59	MP4A	Z	-31.114	.5
60	MP4A	Mx	-.008	.5
61	MP4B	X	0	.5
62	MP4B	Z	-31.114	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP4B	Mx	-.008	.5
64	MP4C	X	0	.5
65	MP4C	Z	-17.813	.5
66	MP4C	Mx	.009	.5
67	MP3A	X	0	2.5
68	MP3A	Z	-60.964	2.5
69	MP3A	Mx	-.015	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-60.964	2.5
72	MP3B	Mx	-.015	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	-44.435	2.5
75	MP3C	Mx	.022	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	-59.965	2.5
78	MP4A	Mx	-.015	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	-59.965	2.5
81	MP4B	Mx	-.015	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	-40.436	2.5
84	MP4C	Mx	.02	2.5
85	MP2A	X	0	.5
86	MP2A	Z	-119.388	.5
87	MP2A	Mx	.03	.5
88	MP2A	X	0	4.5
89	MP2A	Z	-119.388	4.5
90	MP2A	Mx	.03	4.5
91	MP2C	X	0	.5
92	MP2C	Z	-73.906	.5
93	MP2C	Mx	-.037	.5
94	MP2C	X	0	4.5
95	MP2C	Z	-73.906	4.5
96	MP2C	Mx	-.037	4.5
97	M57	X	0	1
98	M57	Z	-134.726	1
99	M57	Mx	0	1
100	MP2B	X	0	.5
101	MP2B	Z	-97.049	.5
102	MP2B	Mx	.024	.5
103	MP2B	X	0	4.5
104	MP2B	Z	-97.049	4.5
105	MP2B	Mx	.024	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	71.807	.25
2	MP4A	Z	-124.373	.25
3	MP4A	Mx	.084	.25
4	MP4A	X	71.807	4.75
5	MP4A	Z	-124.373	4.75
6	MP4A	Mx	.084	4.75
7	MP4B	X	53.555	.25
8	MP4B	Z	-92.76	.25
9	MP4B	Mx	.015	.25
10	MP4B	X	53.555	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
11	MP4B	Z	-92.76	4.75
12	MP4B	Mx	.015	4.75
13	MP4C	X	53.555	.25
14	MP4C	Z	-92.76	.25
15	MP4C	Mx	-.078	.25
16	MP4C	X	53.555	4.75
17	MP4C	Z	-92.76	4.75
18	MP4C	Mx	-.078	4.75
19	MP4A	X	71.54	.25
20	MP4A	Z	-123.911	.25
21	MP4A	Mx	-.083	.25
22	MP4A	X	71.54	4.75
23	MP4A	Z	-123.911	4.75
24	MP4A	Mx	-.083	4.75
25	MP4B	X	53.488	.25
26	MP4B	Z	-92.644	.25
27	MP4B	Mx	.078	.25
28	MP4B	X	53.488	4.75
29	MP4B	Z	-92.644	4.75
30	MP4B	Mx	.078	4.75
31	MP4C	X	53.488	.25
32	MP4C	Z	-92.644	.25
33	MP4C	Mx	-.015	.25
34	MP4C	X	53.488	4.75
35	MP4C	Z	-92.644	4.75
36	MP4C	Mx	-.015	4.75
37	MP5A	X	41.769	1.5
38	MP5A	Z	-72.345	1.5
39	MP5A	Mx	0	1.5
40	MP5A	X	41.769	3.5
41	MP5A	Z	-72.345	3.5
42	MP5A	Mx	0	3.5
43	MP5B	X	22.706	1.5
44	MP5B	Z	-39.329	1.5
45	MP5B	Mx	.02	1.5
46	MP5B	X	22.706	3.5
47	MP5B	Z	-39.329	3.5
48	MP5B	Mx	.02	3.5
49	MP5C	X	22.706	1.5
50	MP5C	Z	-39.329	1.5
51	MP5C	Mx	-.02	1.5
52	MP5C	X	22.706	3.5
53	MP5C	Z	-39.329	3.5
54	MP5C	Mx	-.02	3.5
55	M55	X	61.67	1
56	M55	Z	-106.815	1
57	M55	Mx	0	1
58	MP4A	X	17.774	.5
59	MP4A	Z	-30.785	.5
60	MP4A	Mx	0	.5
61	MP4B	X	11.123	.5
62	MP4B	Z	-19.266	.5
63	MP4B	Mx	-.01	.5
64	MP4C	X	11.123	.5
65	MP4C	Z	-19.266	.5
66	MP4C	Mx	.01	.5
67	MP3A	X	33.237	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP3A	Z	-57.568	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	24.972	2.5
71	MP3B	Z	-43.253	2.5
72	MP3B	Mx	-.022	2.5
73	MP3C	X	24.972	2.5
74	MP3C	Z	-43.253	2.5
75	MP3C	Mx	.022	2.5
76	MP4A	X	33.237	2.5
77	MP4A	Z	-57.568	2.5
78	MP4A	Mx	0	2.5
79	MP4B	X	23.473	2.5
80	MP4B	Z	-40.656	2.5
81	MP4B	Mx	-.02	2.5
82	MP4C	X	23.473	2.5
83	MP4C	Z	-40.656	2.5
84	MP4C	Mx	.02	2.5
85	MP2A	X	67.274	.5
86	MP2A	Z	-116.522	.5
87	MP2A	Mx	0	.5
88	MP2A	X	67.274	4.5
89	MP2A	Z	-116.522	4.5
90	MP2A	Mx	0	4.5
91	MP2C	X	44.533	.5
92	MP2C	Z	-77.134	.5
93	MP2C	Mx	-.039	.5
94	MP2C	X	44.533	4.5
95	MP2C	Z	-77.134	4.5
96	MP2C	Mx	-.039	4.5
97	M57	X	61.67	1
98	M57	Z	-106.815	1
99	M57	Mx	0	1
100	MP2B	X	43.196	.5
101	MP2B	Z	-74.817	.5
102	MP2B	Mx	.037	.5
103	MP2B	X	43.196	4.5
104	MP2B	Z	-74.817	4.5
105	MP2B	Mx	.037	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	113.835	.25
2	MP4A	Z	-65.723	.25
3	MP4A	Mx	.034	.25
4	MP4A	X	113.835	4.75
5	MP4A	Z	-65.723	4.75
6	MP4A	Mx	.034	4.75
7	MP4B	X	82.222	.25
8	MP4B	Z	-47.471	.25
9	MP4B	Mx	.047	.25
10	MP4B	X	82.222	4.75
11	MP4B	Z	-47.471	4.75
12	MP4B	Mx	.047	4.75
13	MP4C	X	113.835	.25
14	MP4C	Z	-65.723	.25
15	MP4C	Mx	-.099	.25



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4C	X	113.835	4.75
17	MP4C	Z	-65.723	4.75
18	MP4C	Mx	-.099	4.75
19	MP4A	X	113.489	.25
20	MP4A	Z	-65.523	.25
21	MP4A	Mx	-.099	.25
22	MP4A	X	113.489	4.75
23	MP4A	Z	-65.523	4.75
24	MP4A	Mx	-.099	4.75
25	MP4B	X	82.222	.25
26	MP4B	Z	-47.471	.25
27	MP4B	Mx	.047	.25
28	MP4B	X	82.222	4.75
29	MP4B	Z	-47.471	4.75
30	MP4B	Mx	.047	4.75
31	MP4C	X	113.489	.25
32	MP4C	Z	-65.523	.25
33	MP4C	Mx	.033	.25
34	MP4C	X	113.489	4.75
35	MP4C	Z	-65.523	4.75
36	MP4C	Mx	.033	4.75
37	MP5A	X	61.34	1.5
38	MP5A	Z	-35.415	1.5
39	MP5A	Mx	-.018	1.5
40	MP5A	X	61.34	3.5
41	MP5A	Z	-35.415	3.5
42	MP5A	Mx	-.018	3.5
43	MP5B	X	28.323	1.5
44	MP5B	Z	-16.352	1.5
45	MP5B	Mx	.016	1.5
46	MP5B	X	28.323	3.5
47	MP5B	Z	-16.352	3.5
48	MP5B	Mx	.016	3.5
49	MP5C	X	61.34	1.5
50	MP5C	Z	-35.415	1.5
51	MP5C	Mx	-.018	1.5
52	MP5C	X	61.34	3.5
53	MP5C	Z	-35.415	3.5
54	MP5C	Mx	-.018	3.5
55	M55	X	87.092	1
56	M55	Z	-50.283	1
57	M55	Mx	0	1
58	MP4A	X	26.945	.5
59	MP4A	Z	-15.557	.5
60	MP4A	Mx	.008	.5
61	MP4B	X	15.426	.5
62	MP4B	Z	-8.906	.5
63	MP4B	Mx	-.009	.5
64	MP4C	X	26.945	.5
65	MP4C	Z	-15.557	.5
66	MP4C	Mx	.008	.5
67	MP3A	X	52.797	2.5
68	MP3A	Z	-30.482	2.5
69	MP3A	Mx	.015	2.5
70	MP3B	X	38.482	2.5
71	MP3B	Z	-22.217	2.5
72	MP3B	Mx	-.022	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
73	MP3C	X	52.797	2.5
74	MP3C	Z	-30.482	2.5
75	MP3C	Mx	.015	2.5
76	MP4A	X	51.931	2.5
77	MP4A	Z	-29.982	2.5
78	MP4A	Mx	.015	2.5
79	MP4B	X	35.018	2.5
80	MP4B	Z	-20.218	2.5
81	MP4B	Mx	-.02	2.5
82	MP4C	X	51.931	2.5
83	MP4C	Z	-29.982	2.5
84	MP4C	Mx	.015	2.5
85	MP2A	X	103.393	.5
86	MP2A	Z	-59.694	.5
87	MP2A	Mx	-.03	.5
88	MP2A	X	103.393	4.5
89	MP2A	Z	-59.694	4.5
90	MP2A	Mx	-.03	4.5
91	MP2C	X	103.393	.5
92	MP2C	Z	-59.694	.5
93	MP2C	Mx	-.03	.5
94	MP2C	X	103.393	4.5
95	MP2C	Z	-59.694	4.5
96	MP2C	Mx	-.03	4.5
97	M57	X	87.092	1
98	M57	Z	-50.283	1
99	M57	Mx	0	1
100	MP2B	X	70.202	.5
101	MP2B	Z	-40.531	.5
102	MP2B	Mx	.041	.5
103	MP2B	X	70.202	4.5
104	MP2B	Z	-40.531	4.5
105	MP2B	Mx	.041	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	107.11	.25
2	MP4A	Z	0	.25
3	MP4A	Mx	-.015	.25
4	MP4A	X	107.11	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	-.015	4.75
7	MP4B	X	107.11	.25
8	MP4B	Z	0	.25
9	MP4B	Mx	.078	.25
10	MP4B	X	107.11	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	.078	4.75
13	MP4C	X	143.613	.25
14	MP4C	Z	0	.25
15	MP4C	Mx	-.084	.25
16	MP4C	X	143.613	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	-.084	4.75
19	MP4A	X	106.977	.25
20	MP4A	Z	0	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP4A	Mx	-.078	.25
22	MP4A	X	106.977	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	-.078	4.75
25	MP4B	X	106.977	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	.015	.25
28	MP4B	X	106.977	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	.015	4.75
31	MP4C	X	143.08	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	.083	.25
34	MP4C	X	143.08	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	.083	4.75
37	MP5A	X	45.413	1.5
38	MP5A	Z	0	1.5
39	MP5A	Mx	-.02	1.5
40	MP5A	X	45.413	3.5
41	MP5A	Z	0	3.5
42	MP5A	Mx	-.02	3.5
43	MP5B	X	45.413	1.5
44	MP5B	Z	0	1.5
45	MP5B	Mx	.02	1.5
46	MP5B	X	45.413	3.5
47	MP5B	Z	0	3.5
48	MP5B	Mx	.02	3.5
49	MP5C	X	83.537	1.5
50	MP5C	Z	0	1.5
51	MP5C	Mx	0	1.5
52	MP5C	X	83.537	3.5
53	MP5C	Z	0	3.5
54	MP5C	Mx	0	3.5
55	M55	X	89.178	1
56	M55	Z	0	1
57	M55	Mx	0	1
58	MP4A	X	22.246	.5
59	MP4A	Z	0	.5
60	MP4A	Mx	.01	.5
61	MP4B	X	22.246	.5
62	MP4B	Z	0	.5
63	MP4B	Mx	-.01	.5
64	MP4C	X	35.548	.5
65	MP4C	Z	0	.5
66	MP4C	Mx	0	.5
67	MP3A	X	49.945	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.022	2.5
70	MP3B	X	49.945	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.022	2.5
73	MP3C	X	66.474	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	0	2.5
76	MP4A	X	46.945	2.5
77	MP4A	Z	0	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP4A	Mx	.02	2.5
79	MP4B	X	46.945	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	-.02	2.5
82	MP4C	X	66.474	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	0	2.5
85	MP2A	X	89.066	.5
86	MP2A	Z	0	.5
87	MP2A	Mx	-.039	.5
88	MP2A	X	89.066	4.5
89	MP2A	Z	0	4.5
90	MP2A	Mx	-.039	4.5
91	MP2C	X	134.548	.5
92	MP2C	Z	0	.5
93	MP2C	Mx	0	.5
94	MP2C	X	134.548	4.5
95	MP2C	Z	0	4.5
96	MP2C	Mx	0	4.5
97	M57	X	89.178	1
98	M57	Z	0	1
99	M57	Mx	0	1
100	MP2B	X	86.391	.5
101	MP2B	Z	0	.5
102	MP2B	Mx	.037	.5
103	MP2B	X	86.391	4.5
104	MP2B	Z	0	4.5
105	MP2B	Mx	.037	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	82.222	.25
2	MP4A	Z	47.471	.25
3	MP4A	Mx	-.047	.25
4	MP4A	X	82.222	4.75
5	MP4A	Z	47.471	4.75
6	MP4A	Mx	-.047	4.75
7	MP4B	X	113.835	.25
8	MP4B	Z	65.723	.25
9	MP4B	Mx	.099	.25
10	MP4B	X	113.835	4.75
11	MP4B	Z	65.723	4.75
12	MP4B	Mx	.099	4.75
13	MP4C	X	113.835	.25
14	MP4C	Z	65.723	.25
15	MP4C	Mx	-.034	.25
16	MP4C	X	113.835	4.75
17	MP4C	Z	65.723	4.75
18	MP4C	Mx	-.034	4.75
19	MP4A	X	82.222	.25
20	MP4A	Z	47.471	.25
21	MP4A	Mx	-.047	.25
22	MP4A	X	82.222	4.75
23	MP4A	Z	47.471	4.75
24	MP4A	Mx	-.047	4.75
25	MP4B	X	113.489	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
26	MP4B	Z	65.523	.25
27	MP4B	Mx	-.033	.25
28	MP4B	X	113.489	4.75
29	MP4B	Z	65.523	4.75
30	MP4B	Mx	-.033	4.75
31	MP4C	X	113.489	.25
32	MP4C	Z	65.523	.25
33	MP4C	Mx	.099	.25
34	MP4C	X	113.489	4.75
35	MP4C	Z	65.523	4.75
36	MP4C	Mx	.099	4.75
37	MP5A	X	28.323	1.5
38	MP5A	Z	16.352	1.5
39	MP5A	Mx	-.016	1.5
40	MP5A	X	28.323	3.5
41	MP5A	Z	16.352	3.5
42	MP5A	Mx	-.016	3.5
43	MP5B	X	61.34	1.5
44	MP5B	Z	35.415	1.5
45	MP5B	Mx	.018	1.5
46	MP5B	X	61.34	3.5
47	MP5B	Z	35.415	3.5
48	MP5B	Mx	.018	3.5
49	MP5C	X	61.34	1.5
50	MP5C	Z	35.415	1.5
51	MP5C	Mx	.018	1.5
52	MP5C	X	61.34	3.5
53	MP5C	Z	35.415	3.5
54	MP5C	Mx	.018	3.5
55	M55	X	87.092	1
56	M55	Z	50.283	1
57	M55	Mx	0	1
58	MP4A	X	15.426	.5
59	MP4A	Z	8.906	.5
60	MP4A	Mx	.009	.5
61	MP4B	X	26.945	.5
62	MP4B	Z	15.557	.5
63	MP4B	Mx	-.008	.5
64	MP4C	X	26.945	.5
65	MP4C	Z	15.557	.5
66	MP4C	Mx	-.008	.5
67	MP3A	X	38.482	2.5
68	MP3A	Z	22.217	2.5
69	MP3A	Mx	.022	2.5
70	MP3B	X	52.797	2.5
71	MP3B	Z	30.482	2.5
72	MP3B	Mx	-.015	2.5
73	MP3C	X	52.797	2.5
74	MP3C	Z	30.482	2.5
75	MP3C	Mx	-.015	2.5
76	MP4A	X	35.018	2.5
77	MP4A	Z	20.218	2.5
78	MP4A	Mx	.02	2.5
79	MP4B	X	51.931	2.5
80	MP4B	Z	29.982	2.5
81	MP4B	Mx	-.015	2.5
82	MP4C	X	51.931	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP4C	Z	29.982	2.5
84	MP4C	Mx	-.015	2.5
85	MP2A	X	64.004	.5
86	MP2A	Z	36.953	.5
87	MP2A	Mx	-.037	.5
88	MP2A	X	64.004	4.5
89	MP2A	Z	36.953	4.5
90	MP2A	Mx	-.037	4.5
91	MP2C	X	103.393	.5
92	MP2C	Z	59.694	.5
93	MP2C	Mx	.03	.5
94	MP2C	X	103.393	4.5
95	MP2C	Z	59.694	4.5
96	MP2C	Mx	.03	4.5
97	M57	X	87.092	1
98	M57	Z	50.283	1
99	M57	Mx	0	1
100	MP2B	X	84.047	.5
101	MP2B	Z	48.524	.5
102	MP2B	Mx	.024	.5
103	MP2B	X	84.047	4.5
104	MP2B	Z	48.524	4.5
105	MP2B	Mx	.024	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	53.555	.25
2	MP4A	Z	92.76	.25
3	MP4A	Mx	-.078	.25
4	MP4A	X	53.555	4.75
5	MP4A	Z	92.76	4.75
6	MP4A	Mx	-.078	4.75
7	MP4B	X	71.807	.25
8	MP4B	Z	124.373	.25
9	MP4B	Mx	.084	.25
10	MP4B	X	71.807	4.75
11	MP4B	Z	124.373	4.75
12	MP4B	Mx	.084	4.75
13	MP4C	X	53.555	.25
14	MP4C	Z	92.76	.25
15	MP4C	Mx	.015	.25
16	MP4C	X	53.555	4.75
17	MP4C	Z	92.76	4.75
18	MP4C	Mx	.015	4.75
19	MP4A	X	53.488	.25
20	MP4A	Z	92.644	.25
21	MP4A	Mx	-.015	.25
22	MP4A	X	53.488	4.75
23	MP4A	Z	92.644	4.75
24	MP4A	Mx	-.015	4.75
25	MP4B	X	71.54	.25
26	MP4B	Z	123.911	.25
27	MP4B	Mx	-.083	.25
28	MP4B	X	71.54	4.75
29	MP4B	Z	123.911	4.75
30	MP4B	Mx	-.083	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP4C	X	53.488	.25
32	MP4C	Z	92.644	.25
33	MP4C	Mx	.078	.25
34	MP4C	X	53.488	4.75
35	MP4C	Z	92.644	4.75
36	MP4C	Mx	.078	4.75
37	MP5A	X	22.706	1.5
38	MP5A	Z	39.329	1.5
39	MP5A	Mx	-.02	1.5
40	MP5A	X	22.706	3.5
41	MP5A	Z	39.329	3.5
42	MP5A	Mx	-.02	3.5
43	MP5B	X	41.769	1.5
44	MP5B	Z	72.345	1.5
45	MP5B	Mx	0	1.5
46	MP5B	X	41.769	3.5
47	MP5B	Z	72.345	3.5
48	MP5B	Mx	0	3.5
49	MP5C	X	22.706	1.5
50	MP5C	Z	39.329	1.5
51	MP5C	Mx	.02	1.5
52	MP5C	X	22.706	3.5
53	MP5C	Z	39.329	3.5
54	MP5C	Mx	.02	3.5
55	M55	X	61.67	1
56	M55	Z	106.815	1
57	M55	Mx	0	1
58	MP4A	X	11.123	.5
59	MP4A	Z	19.266	.5
60	MP4A	Mx	.01	.5
61	MP4B	X	17.774	.5
62	MP4B	Z	30.785	.5
63	MP4B	Mx	0	.5
64	MP4C	X	11.123	.5
65	MP4C	Z	19.266	.5
66	MP4C	Mx	-.01	.5
67	MP3A	X	24.972	2.5
68	MP3A	Z	43.253	2.5
69	MP3A	Mx	.022	2.5
70	MP3B	X	33.237	2.5
71	MP3B	Z	57.568	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	24.972	2.5
74	MP3C	Z	43.253	2.5
75	MP3C	Mx	-.022	2.5
76	MP4A	X	23.473	2.5
77	MP4A	Z	40.656	2.5
78	MP4A	Mx	.02	2.5
79	MP4B	X	33.237	2.5
80	MP4B	Z	57.568	2.5
81	MP4B	Mx	0	2.5
82	MP4C	X	23.473	2.5
83	MP4C	Z	40.656	2.5
84	MP4C	Mx	-.02	2.5
85	MP2A	X	44.533	.5
86	MP2A	Z	77.134	.5
87	MP2A	Mx	-.039	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP2A	X	44.533	4.5
89	MP2A	Z	77.134	4.5
90	MP2A	Mx	-.039	4.5
91	MP2C	X	44.533	.5
92	MP2C	Z	77.134	.5
93	MP2C	Mx	.039	.5
94	MP2C	X	44.533	4.5
95	MP2C	Z	77.134	4.5
96	MP2C	Mx	.039	4.5
97	M57	X	61.67	1
98	M57	Z	106.815	1
99	M57	Mx	0	1
100	MP2B	X	51.189	.5
101	MP2B	Z	88.662	.5
102	MP2B	Mx	0	.5
103	MP2B	X	51.189	4.5
104	MP2B	Z	88.662	4.5
105	MP2B	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	.25
2	MP4A	Z	131.445	.25
3	MP4A	Mx	-.099	.25
4	MP4A	X	0	4.75
5	MP4A	Z	131.445	4.75
6	MP4A	Mx	-.099	4.75
7	MP4B	X	0	.25
8	MP4B	Z	131.445	.25
9	MP4B	Mx	.034	.25
10	MP4B	X	0	4.75
11	MP4B	Z	131.445	4.75
12	MP4B	Mx	.034	4.75
13	MP4C	X	0	.25
14	MP4C	Z	94.942	.25
15	MP4C	Mx	.047	.25
16	MP4C	X	0	4.75
17	MP4C	Z	94.942	4.75
18	MP4C	Mx	.047	4.75
19	MP4A	X	0	.25
20	MP4A	Z	131.045	.25
21	MP4A	Mx	.033	.25
22	MP4A	X	0	4.75
23	MP4A	Z	131.045	4.75
24	MP4A	Mx	.033	4.75
25	MP4B	X	0	.25
26	MP4B	Z	131.045	.25
27	MP4B	Mx	-.099	.25
28	MP4B	X	0	4.75
29	MP4B	Z	131.045	4.75
30	MP4B	Mx	-.099	4.75
31	MP4C	X	0	.25
32	MP4C	Z	94.942	.25
33	MP4C	Mx	.047	.25
34	MP4C	X	0	4.75
35	MP4C	Z	94.942	4.75



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 Designer :
 Job Number : Project No. 10106645
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Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP4C	Mx	.047	4.75
37	MP5A	X	0	1.5
38	MP5A	Z	70.829	1.5
39	MP5A	Mx	-.018	1.5
40	MP5A	X	0	3.5
41	MP5A	Z	70.829	3.5
42	MP5A	Mx	-.018	3.5
43	MP5B	X	0	1.5
44	MP5B	Z	70.829	1.5
45	MP5B	Mx	-.018	1.5
46	MP5B	X	0	3.5
47	MP5B	Z	70.829	3.5
48	MP5B	Mx	-.018	3.5
49	MP5C	X	0	1.5
50	MP5C	Z	32.705	1.5
51	MP5C	Mx	.016	1.5
52	MP5C	X	0	3.5
53	MP5C	Z	32.705	3.5
54	MP5C	Mx	.016	3.5
55	M55	X	0	1
56	M55	Z	134.726	1
57	M55	Mx	0	1
58	MP4A	X	0	.5
59	MP4A	Z	31.114	.5
60	MP4A	Mx	.008	.5
61	MP4B	X	0	.5
62	MP4B	Z	31.114	.5
63	MP4B	Mx	.008	.5
64	MP4C	X	0	.5
65	MP4C	Z	17.813	.5
66	MP4C	Mx	-.009	.5
67	MP3A	X	0	2.5
68	MP3A	Z	60.964	2.5
69	MP3A	Mx	.015	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	60.964	2.5
72	MP3B	Mx	.015	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	44.435	2.5
75	MP3C	Mx	-.022	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	59.965	2.5
78	MP4A	Mx	.015	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	59.965	2.5
81	MP4B	Mx	.015	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	40.436	2.5
84	MP4C	Mx	-.02	2.5
85	MP2A	X	0	.5
86	MP2A	Z	119.388	.5
87	MP2A	Mx	-.03	.5
88	MP2A	X	0	4.5
89	MP2A	Z	119.388	4.5
90	MP2A	Mx	-.03	4.5
91	MP2C	X	0	.5
92	MP2C	Z	73.906	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
93	MP2C	Mx	.037	.5
94	MP2C	X	0	4.5
95	MP2C	Z	73.906	4.5
96	MP2C	Mx	.037	4.5
97	M57	X	0	1
98	M57	Z	134.726	1
99	M57	Mx	0	1
100	MP2B	X	0	.5
101	MP2B	Z	97.049	.5
102	MP2B	Mx	-.024	.5
103	MP2B	X	0	4.5
104	MP2B	Z	97.049	4.5
105	MP2B	Mx	-.024	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-71.807	.25
2	MP4A	Z	124.373	.25
3	MP4A	Mx	-.084	.25
4	MP4A	X	-71.807	4.75
5	MP4A	Z	124.373	4.75
6	MP4A	Mx	-.084	4.75
7	MP4B	X	-53.555	.25
8	MP4B	Z	92.76	.25
9	MP4B	Mx	-.015	.25
10	MP4B	X	-53.555	4.75
11	MP4B	Z	92.76	4.75
12	MP4B	Mx	-.015	4.75
13	MP4C	X	-53.555	.25
14	MP4C	Z	92.76	.25
15	MP4C	Mx	.078	.25
16	MP4C	X	-53.555	4.75
17	MP4C	Z	92.76	4.75
18	MP4C	Mx	.078	4.75
19	MP4A	X	-71.54	.25
20	MP4A	Z	123.911	.25
21	MP4A	Mx	.083	.25
22	MP4A	X	-71.54	4.75
23	MP4A	Z	123.911	4.75
24	MP4A	Mx	.083	4.75
25	MP4B	X	-53.488	.25
26	MP4B	Z	92.644	.25
27	MP4B	Mx	-.078	.25
28	MP4B	X	-53.488	4.75
29	MP4B	Z	92.644	4.75
30	MP4B	Mx	-.078	4.75
31	MP4C	X	-53.488	.25
32	MP4C	Z	92.644	.25
33	MP4C	Mx	.015	.25
34	MP4C	X	-53.488	4.75
35	MP4C	Z	92.644	4.75
36	MP4C	Mx	.015	4.75
37	MP5A	X	-41.769	1.5
38	MP5A	Z	72.345	1.5
39	MP5A	Mx	0	1.5
40	MP5A	X	-41.769	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP5A	Z	72.345	3.5
42	MP5A	Mx	0	3.5
43	MP5B	X	-22.706	1.5
44	MP5B	Z	39.329	1.5
45	MP5B	Mx	-.02	1.5
46	MP5B	X	-22.706	3.5
47	MP5B	Z	39.329	3.5
48	MP5B	Mx	-.02	3.5
49	MP5C	X	-22.706	1.5
50	MP5C	Z	39.329	1.5
51	MP5C	Mx	.02	1.5
52	MP5C	X	-22.706	3.5
53	MP5C	Z	39.329	3.5
54	MP5C	Mx	.02	3.5
55	M55	X	-61.67	1
56	M55	Z	106.815	1
57	M55	Mx	0	1
58	MP4A	X	-17.774	.5
59	MP4A	Z	30.785	.5
60	MP4A	Mx	0	.5
61	MP4B	X	-11.123	.5
62	MP4B	Z	19.266	.5
63	MP4B	Mx	.01	.5
64	MP4C	X	-11.123	.5
65	MP4C	Z	19.266	.5
66	MP4C	Mx	-.01	.5
67	MP3A	X	-33.237	2.5
68	MP3A	Z	57.568	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	-24.972	2.5
71	MP3B	Z	43.253	2.5
72	MP3B	Mx	.022	2.5
73	MP3C	X	-24.972	2.5
74	MP3C	Z	43.253	2.5
75	MP3C	Mx	-.022	2.5
76	MP4A	X	-33.237	2.5
77	MP4A	Z	57.568	2.5
78	MP4A	Mx	0	2.5
79	MP4B	X	-23.473	2.5
80	MP4B	Z	40.656	2.5
81	MP4B	Mx	.02	2.5
82	MP4C	X	-23.473	2.5
83	MP4C	Z	40.656	2.5
84	MP4C	Mx	-.02	2.5
85	MP2A	X	-67.274	.5
86	MP2A	Z	116.522	.5
87	MP2A	Mx	0	.5
88	MP2A	X	-67.274	4.5
89	MP2A	Z	116.522	4.5
90	MP2A	Mx	0	4.5
91	MP2C	X	-44.533	.5
92	MP2C	Z	77.134	.5
93	MP2C	Mx	.039	.5
94	MP2C	X	-44.533	4.5
95	MP2C	Z	77.134	4.5
96	MP2C	Mx	.039	4.5
97	M57	X	-61.67	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	M57	Z	106.815	1
99	M57	Mx	0	1
100	MP2B	X	-43.196	.5
101	MP2B	Z	74.817	.5
102	MP2B	Mx	-.037	.5
103	MP2B	X	-43.196	4.5
104	MP2B	Z	74.817	4.5
105	MP2B	Mx	-.037	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-113.835	.25
2	MP4A	Z	65.723	.25
3	MP4A	Mx	-.034	.25
4	MP4A	X	-113.835	4.75
5	MP4A	Z	65.723	4.75
6	MP4A	Mx	-.034	4.75
7	MP4B	X	-82.222	.25
8	MP4B	Z	47.471	.25
9	MP4B	Mx	-.047	.25
10	MP4B	X	-82.222	4.75
11	MP4B	Z	47.471	4.75
12	MP4B	Mx	-.047	4.75
13	MP4C	X	-113.835	.25
14	MP4C	Z	65.723	.25
15	MP4C	Mx	.099	.25
16	MP4C	X	-113.835	4.75
17	MP4C	Z	65.723	4.75
18	MP4C	Mx	.099	4.75
19	MP4A	X	-113.489	.25
20	MP4A	Z	65.523	.25
21	MP4A	Mx	.099	.25
22	MP4A	X	-113.489	4.75
23	MP4A	Z	65.523	4.75
24	MP4A	Mx	.099	4.75
25	MP4B	X	-82.222	.25
26	MP4B	Z	47.471	.25
27	MP4B	Mx	-.047	.25
28	MP4B	X	-82.222	4.75
29	MP4B	Z	47.471	4.75
30	MP4B	Mx	-.047	4.75
31	MP4C	X	-113.489	.25
32	MP4C	Z	65.523	.25
33	MP4C	Mx	-.033	.25
34	MP4C	X	-113.489	4.75
35	MP4C	Z	65.523	4.75
36	MP4C	Mx	-.033	4.75
37	MP5A	X	-61.34	1.5
38	MP5A	Z	35.415	1.5
39	MP5A	Mx	.018	1.5
40	MP5A	X	-61.34	3.5
41	MP5A	Z	35.415	3.5
42	MP5A	Mx	.018	3.5
43	MP5B	X	-28.323	1.5
44	MP5B	Z	16.352	1.5
45	MP5B	Mx	-.016	1.5



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP5B	X	-28.323	3.5
47	MP5B	Z	16.352	3.5
48	MP5B	Mx	-.016	3.5
49	MP5C	X	-61.34	1.5
50	MP5C	Z	35.415	1.5
51	MP5C	Mx	.018	1.5
52	MP5C	X	-61.34	3.5
53	MP5C	Z	35.415	3.5
54	MP5C	Mx	.018	3.5
55	M55	X	-87.092	1
56	M55	Z	50.283	1
57	M55	Mx	0	1
58	MP4A	X	-26.945	.5
59	MP4A	Z	15.557	.5
60	MP4A	Mx	-.008	.5
61	MP4B	X	-15.426	.5
62	MP4B	Z	8.906	.5
63	MP4B	Mx	.009	.5
64	MP4C	X	-26.945	.5
65	MP4C	Z	15.557	.5
66	MP4C	Mx	-.008	.5
67	MP3A	X	-52.797	2.5
68	MP3A	Z	30.482	2.5
69	MP3A	Mx	-.015	2.5
70	MP3B	X	-38.482	2.5
71	MP3B	Z	22.217	2.5
72	MP3B	Mx	.022	2.5
73	MP3C	X	-52.797	2.5
74	MP3C	Z	30.482	2.5
75	MP3C	Mx	-.015	2.5
76	MP4A	X	-51.931	2.5
77	MP4A	Z	29.982	2.5
78	MP4A	Mx	-.015	2.5
79	MP4B	X	-35.018	2.5
80	MP4B	Z	20.218	2.5
81	MP4B	Mx	.02	2.5
82	MP4C	X	-51.931	2.5
83	MP4C	Z	29.982	2.5
84	MP4C	Mx	-.015	2.5
85	MP2A	X	-103.393	.5
86	MP2A	Z	59.694	.5
87	MP2A	Mx	.03	.5
88	MP2A	X	-103.393	4.5
89	MP2A	Z	59.694	4.5
90	MP2A	Mx	.03	4.5
91	MP2C	X	-103.393	.5
92	MP2C	Z	59.694	.5
93	MP2C	Mx	.03	.5
94	MP2C	X	-103.393	4.5
95	MP2C	Z	59.694	4.5
96	MP2C	Mx	.03	4.5
97	M57	X	-87.092	1
98	M57	Z	50.283	1
99	M57	Mx	0	1
100	MP2B	X	-70.202	.5
101	MP2B	Z	40.531	.5
102	MP2B	Mx	-.041	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
103	MP2B	X	-70.202	4.5
104	MP2B	Z	40.531	4.5
105	MP2B	Mx	-.041	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP4A	X	-107.11	.25
2	MP4A	Z	0	.25
3	MP4A	Mx	.015	.25
4	MP4A	X	-107.11	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	.015	4.75
7	MP4B	X	-107.11	.25
8	MP4B	Z	0	.25
9	MP4B	Mx	-.078	.25
10	MP4B	X	-107.11	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	-.078	4.75
13	MP4C	X	-143.613	.25
14	MP4C	Z	0	.25
15	MP4C	Mx	.084	.25
16	MP4C	X	-143.613	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	.084	4.75
19	MP4A	X	-106.977	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	.078	.25
22	MP4A	X	-106.977	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	.078	4.75
25	MP4B	X	-106.977	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	-.015	.25
28	MP4B	X	-106.977	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	-.015	4.75
31	MP4C	X	-143.08	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	-.083	.25
34	MP4C	X	-143.08	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	-.083	4.75
37	MP5A	X	-45.413	1.5
38	MP5A	Z	0	1.5
39	MP5A	Mx	.02	1.5
40	MP5A	X	-45.413	3.5
41	MP5A	Z	0	3.5
42	MP5A	Mx	.02	3.5
43	MP5B	X	-45.413	1.5
44	MP5B	Z	0	1.5
45	MP5B	Mx	-.02	1.5
46	MP5B	X	-45.413	3.5
47	MP5B	Z	0	3.5
48	MP5B	Mx	-.02	3.5
49	MP5C	X	-83.537	1.5
50	MP5C	Z	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP5C	Mx	0	1.5
52	MP5C	X	-83.537	3.5
53	MP5C	Z	0	3.5
54	MP5C	Mx	0	3.5
55	M55	X	-89.178	1
56	M55	Z	0	1
57	M55	Mx	0	1
58	MP4A	X	-22.246	.5
59	MP4A	Z	0	.5
60	MP4A	Mx	-.01	.5
61	MP4B	X	-22.246	.5
62	MP4B	Z	0	.5
63	MP4B	Mx	.01	.5
64	MP4C	X	-35.548	.5
65	MP4C	Z	0	.5
66	MP4C	Mx	0	.5
67	MP3A	X	-49.945	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.022	2.5
70	MP3B	X	-49.945	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.022	2.5
73	MP3C	X	-66.474	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	0	2.5
76	MP4A	X	-46.945	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	-.02	2.5
79	MP4B	X	-46.945	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	.02	2.5
82	MP4C	X	-66.474	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	0	2.5
85	MP2A	X	-89.066	.5
86	MP2A	Z	0	.5
87	MP2A	Mx	.039	.5
88	MP2A	X	-89.066	4.5
89	MP2A	Z	0	4.5
90	MP2A	Mx	.039	4.5
91	MP2C	X	-134.548	.5
92	MP2C	Z	0	.5
93	MP2C	Mx	0	.5
94	MP2C	X	-134.548	4.5
95	MP2C	Z	0	4.5
96	MP2C	Mx	0	4.5
97	M57	X	-89.178	1
98	M57	Z	0	1
99	M57	Mx	0	1
100	MP2B	X	-86.391	.5
101	MP2B	Z	0	.5
102	MP2B	Mx	-.037	.5
103	MP2B	X	-86.391	4.5
104	MP2B	Z	0	4.5
105	MP2B	Mx	-.037	4.5



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-82.222	.25
2	MP4A	Z	-47.471	.25
3	MP4A	Mx	.047	.25
4	MP4A	X	-82.222	4.75
5	MP4A	Z	-47.471	4.75
6	MP4A	Mx	.047	4.75
7	MP4B	X	-113.835	.25
8	MP4B	Z	-65.723	.25
9	MP4B	Mx	-.099	.25
10	MP4B	X	-113.835	4.75
11	MP4B	Z	-65.723	4.75
12	MP4B	Mx	-.099	4.75
13	MP4C	X	-113.835	.25
14	MP4C	Z	-65.723	.25
15	MP4C	Mx	.034	.25
16	MP4C	X	-113.835	4.75
17	MP4C	Z	-65.723	4.75
18	MP4C	Mx	.034	4.75
19	MP4A	X	-82.222	.25
20	MP4A	Z	-47.471	.25
21	MP4A	Mx	.047	.25
22	MP4A	X	-82.222	4.75
23	MP4A	Z	-47.471	4.75
24	MP4A	Mx	.047	4.75
25	MP4B	X	-113.489	.25
26	MP4B	Z	-65.523	.25
27	MP4B	Mx	.033	.25
28	MP4B	X	-113.489	4.75
29	MP4B	Z	-65.523	4.75
30	MP4B	Mx	.033	4.75
31	MP4C	X	-113.489	.25
32	MP4C	Z	-65.523	.25
33	MP4C	Mx	-.099	.25
34	MP4C	X	-113.489	4.75
35	MP4C	Z	-65.523	4.75
36	MP4C	Mx	-.099	4.75
37	MP5A	X	-28.323	1.5
38	MP5A	Z	-16.352	1.5
39	MP5A	Mx	.016	1.5
40	MP5A	X	-28.323	3.5
41	MP5A	Z	-16.352	3.5
42	MP5A	Mx	.016	3.5
43	MP5B	X	-61.34	1.5
44	MP5B	Z	-35.415	1.5
45	MP5B	Mx	-.018	1.5
46	MP5B	X	-61.34	3.5
47	MP5B	Z	-35.415	3.5
48	MP5B	Mx	-.018	3.5
49	MP5C	X	-61.34	1.5
50	MP5C	Z	-35.415	1.5
51	MP5C	Mx	-.018	1.5
52	MP5C	X	-61.34	3.5
53	MP5C	Z	-35.415	3.5
54	MP5C	Mx	-.018	3.5
55	M55	X	-87.092	1
56	M55	Z	-50.283	1
57	M55	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP4A	X	-15.426	.5
59	MP4A	Z	-8.906	.5
60	MP4A	Mx	-.009	.5
61	MP4B	X	-26.945	.5
62	MP4B	Z	-15.557	.5
63	MP4B	Mx	.008	.5
64	MP4C	X	-26.945	.5
65	MP4C	Z	-15.557	.5
66	MP4C	Mx	.008	.5
67	MP3A	X	-38.482	2.5
68	MP3A	Z	-22.217	2.5
69	MP3A	Mx	-.022	2.5
70	MP3B	X	-52.797	2.5
71	MP3B	Z	-30.482	2.5
72	MP3B	Mx	.015	2.5
73	MP3C	X	-52.797	2.5
74	MP3C	Z	-30.482	2.5
75	MP3C	Mx	.015	2.5
76	MP4A	X	-35.018	2.5
77	MP4A	Z	-20.218	2.5
78	MP4A	Mx	-.02	2.5
79	MP4B	X	-51.931	2.5
80	MP4B	Z	-29.982	2.5
81	MP4B	Mx	.015	2.5
82	MP4C	X	-51.931	2.5
83	MP4C	Z	-29.982	2.5
84	MP4C	Mx	.015	2.5
85	MP2A	X	-64.004	.5
86	MP2A	Z	-36.953	.5
87	MP2A	Mx	.037	.5
88	MP2A	X	-64.004	4.5
89	MP2A	Z	-36.953	4.5
90	MP2A	Mx	.037	4.5
91	MP2C	X	-103.393	.5
92	MP2C	Z	-59.694	.5
93	MP2C	Mx	-.03	.5
94	MP2C	X	-103.393	4.5
95	MP2C	Z	-59.694	4.5
96	MP2C	Mx	-.03	4.5
97	M57	X	-87.092	1
98	M57	Z	-50.283	1
99	M57	Mx	0	1
100	MP2B	X	-84.047	.5
101	MP2B	Z	-48.524	.5
102	MP2B	Mx	-.024	.5
103	MP2B	X	-84.047	4.5
104	MP2B	Z	-48.524	4.5
105	MP2B	Mx	-.024	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-53.555	.25
2	MP4A	Z	-92.76	.25
3	MP4A	Mx	.078	.25
4	MP4A	X	-53.555	4.75
5	MP4A	Z	-92.76	4.75



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
6	MP4A	Mx	.078	4.75
7	MP4B	X	-71.807	.25
8	MP4B	Z	-124.373	.25
9	MP4B	Mx	-.084	.25
10	MP4B	X	-71.807	4.75
11	MP4B	Z	-124.373	4.75
12	MP4B	Mx	-.084	4.75
13	MP4C	X	-53.555	.25
14	MP4C	Z	-92.76	.25
15	MP4C	Mx	-.015	.25
16	MP4C	X	-53.555	4.75
17	MP4C	Z	-92.76	4.75
18	MP4C	Mx	-.015	4.75
19	MP4A	X	-53.488	.25
20	MP4A	Z	-92.644	.25
21	MP4A	Mx	.015	.25
22	MP4A	X	-53.488	4.75
23	MP4A	Z	-92.644	4.75
24	MP4A	Mx	.015	4.75
25	MP4B	X	-71.54	.25
26	MP4B	Z	-123.911	.25
27	MP4B	Mx	.083	.25
28	MP4B	X	-71.54	4.75
29	MP4B	Z	-123.911	4.75
30	MP4B	Mx	.083	4.75
31	MP4C	X	-53.488	.25
32	MP4C	Z	-92.644	.25
33	MP4C	Mx	-.078	.25
34	MP4C	X	-53.488	4.75
35	MP4C	Z	-92.644	4.75
36	MP4C	Mx	-.078	4.75
37	MP5A	X	-22.706	1.5
38	MP5A	Z	-39.329	1.5
39	MP5A	Mx	.02	1.5
40	MP5A	X	-22.706	3.5
41	MP5A	Z	-39.329	3.5
42	MP5A	Mx	.02	3.5
43	MP5B	X	-41.769	1.5
44	MP5B	Z	-72.345	1.5
45	MP5B	Mx	0	1.5
46	MP5B	X	-41.769	3.5
47	MP5B	Z	-72.345	3.5
48	MP5B	Mx	0	3.5
49	MP5C	X	-22.706	1.5
50	MP5C	Z	-39.329	1.5
51	MP5C	Mx	-.02	1.5
52	MP5C	X	-22.706	3.5
53	MP5C	Z	-39.329	3.5
54	MP5C	Mx	-.02	3.5
55	M55	X	-61.67	1
56	M55	Z	-106.815	1
57	M55	Mx	0	1
58	MP4A	X	-11.123	.5
59	MP4A	Z	-19.266	.5
60	MP4A	Mx	-.01	.5
61	MP4B	X	-17.774	.5
62	MP4B	Z	-30.785	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP4B	Mx	0	.5
64	MP4C	X	-11.123	.5
65	MP4C	Z	-19.266	.5
66	MP4C	Mx	.01	.5
67	MP3A	X	-24.972	2.5
68	MP3A	Z	-43.253	2.5
69	MP3A	Mx	-.022	2.5
70	MP3B	X	-33.237	2.5
71	MP3B	Z	-57.568	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	-24.972	2.5
74	MP3C	Z	-43.253	2.5
75	MP3C	Mx	.022	2.5
76	MP4A	X	-23.473	2.5
77	MP4A	Z	-40.656	2.5
78	MP4A	Mx	-.02	2.5
79	MP4B	X	-33.237	2.5
80	MP4B	Z	-57.568	2.5
81	MP4B	Mx	0	2.5
82	MP4C	X	-23.473	2.5
83	MP4C	Z	-40.656	2.5
84	MP4C	Mx	.02	2.5
85	MP2A	X	-44.533	.5
86	MP2A	Z	-77.134	.5
87	MP2A	Mx	.039	.5
88	MP2A	X	-44.533	4.5
89	MP2A	Z	-77.134	4.5
90	MP2A	Mx	.039	4.5
91	MP2C	X	-44.533	.5
92	MP2C	Z	-77.134	.5
93	MP2C	Mx	-.039	.5
94	MP2C	X	-44.533	4.5
95	MP2C	Z	-77.134	4.5
96	MP2C	Mx	-.039	4.5
97	M57	X	-61.67	1
98	M57	Z	-106.815	1
99	M57	Mx	0	1
100	MP2B	X	-51.189	.5
101	MP2B	Z	-88.662	.5
102	MP2B	Mx	0	.5
103	MP2B	X	-51.189	4.5
104	MP2B	Z	-88.662	4.5
105	MP2B	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	0	.25
2	MP4A	Z	-25.418	.25
3	MP4A	Mx	.019	.25
4	MP4A	X	0	4.75
5	MP4A	Z	-25.418	4.75
6	MP4A	Mx	.019	4.75
7	MP4B	X	0	.25
8	MP4B	Z	-25.418	.25
9	MP4B	Mx	-.006	.25
10	MP4B	X	0	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP4B	Z	-25.418	4.75
12	MP4B	Mx	-.006	4.75
13	MP4C	X	0	.25
14	MP4C	Z	-19.013	.25
15	MP4C	Mx	-.01	.25
16	MP4C	X	0	4.75
17	MP4C	Z	-19.013	4.75
18	MP4C	Mx	-.01	4.75
19	MP4A	X	0	.25
20	MP4A	Z	-25.418	.25
21	MP4A	Mx	-.006	.25
22	MP4A	X	0	4.75
23	MP4A	Z	-25.418	4.75
24	MP4A	Mx	-.006	4.75
25	MP4B	X	0	.25
26	MP4B	Z	-25.418	.25
27	MP4B	Mx	.019	.25
28	MP4B	X	0	4.75
29	MP4B	Z	-25.418	4.75
30	MP4B	Mx	.019	4.75
31	MP4C	X	0	.25
32	MP4C	Z	-19.013	.25
33	MP4C	Mx	-.01	.25
34	MP4C	X	0	4.75
35	MP4C	Z	-19.013	4.75
36	MP4C	Mx	-.01	4.75
37	MP5A	X	0	1.5
38	MP5A	Z	-14.066	1.5
39	MP5A	Mx	.004	1.5
40	MP5A	X	0	3.5
41	MP5A	Z	-14.066	3.5
42	MP5A	Mx	.004	3.5
43	MP5B	X	0	1.5
44	MP5B	Z	-14.066	1.5
45	MP5B	Mx	.004	1.5
46	MP5B	X	0	3.5
47	MP5B	Z	-14.066	3.5
48	MP5B	Mx	.004	3.5
49	MP5C	X	0	1.5
50	MP5C	Z	-7.005	1.5
51	MP5C	Mx	-.004	1.5
52	MP5C	X	0	3.5
53	MP5C	Z	-7.005	3.5
54	MP5C	Mx	-.004	3.5
55	M55	X	0	1
56	M55	Z	-26.645	1
57	M55	Mx	0	1
58	MP4A	X	0	.5
59	MP4A	Z	-7.036	.5
60	MP4A	Mx	-.002	.5
61	MP4B	X	0	.5
62	MP4B	Z	-7.036	.5
63	MP4B	Mx	-.002	.5
64	MP4C	X	0	.5
65	MP4C	Z	-4.444	.5
66	MP4C	Mx	.002	.5
67	MP3A	X	0	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
68	MP3A	Z	-12.8	2.5
69	MP3A	Mx	-.003	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-12.8	2.5
72	MP3B	Mx	-.003	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	-9.643	2.5
75	MP3C	Mx	.005	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	-12.61	2.5
78	MP4A	Mx	-.003	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	-12.61	2.5
81	MP4B	Mx	-.003	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	-8.885	2.5
84	MP4C	Mx	.004	2.5
85	MP2A	X	0	.5
86	MP2A	Z	-23.232	.5
87	MP2A	Mx	.006	.5
88	MP2A	X	0	4.5
89	MP2A	Z	-23.232	4.5
90	MP2A	Mx	.006	4.5
91	MP2C	X	0	.5
92	MP2C	Z	-15.195	.5
93	MP2C	Mx	-.008	.5
94	MP2C	X	0	4.5
95	MP2C	Z	-15.195	4.5
96	MP2C	Mx	-.008	4.5
97	M57	X	0	1
98	M57	Z	-26.645	1
99	M57	Mx	0	1
100	MP2B	X	0	.5
101	MP2B	Z	-19.394	.5
102	MP2B	Mx	.005	.5
103	MP2B	X	0	4.5
104	MP2B	Z	-19.394	4.5
105	MP2B	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	13.776	.25
2	MP4A	Z	-23.861	.25
3	MP4A	Mx	.016	.25
4	MP4A	X	13.776	4.75
5	MP4A	Z	-23.861	4.75
6	MP4A	Mx	.016	4.75
7	MP4B	X	10.574	.25
8	MP4B	Z	-18.315	.25
9	MP4B	Mx	.003	.25
10	MP4B	X	10.574	4.75
11	MP4B	Z	-18.315	4.75
12	MP4B	Mx	.003	4.75
13	MP4C	X	10.574	.25
14	MP4C	Z	-18.315	.25
15	MP4C	Mx	-.015	.25



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

Oct 7, 2021
 9:33 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
16	MP4C	X	10.574	4.75
17	MP4C	Z	-18.315	4.75
18	MP4C	Mx	-.015	4.75
19	MP4A	X	13.776	.25
20	MP4A	Z	-23.861	.25
21	MP4A	Mx	-.016	.25
22	MP4A	X	13.776	4.75
23	MP4A	Z	-23.861	4.75
24	MP4A	Mx	-.016	4.75
25	MP4B	X	10.574	.25
26	MP4B	Z	-18.315	.25
27	MP4B	Mx	.015	.25
28	MP4B	X	10.574	4.75
29	MP4B	Z	-18.315	4.75
30	MP4B	Mx	.015	4.75
31	MP4C	X	10.574	.25
32	MP4C	Z	-18.315	.25
33	MP4C	Mx	-.003	.25
34	MP4C	X	10.574	4.75
35	MP4C	Z	-18.315	4.75
36	MP4C	Mx	-.003	4.75
37	MP5A	X	8.21	1.5
38	MP5A	Z	-14.219	1.5
39	MP5A	Mx	0	1.5
40	MP5A	X	8.21	3.5
41	MP5A	Z	-14.219	3.5
42	MP5A	Mx	0	3.5
43	MP5B	X	4.679	1.5
44	MP5B	Z	-8.105	1.5
45	MP5B	Mx	.004	1.5
46	MP5B	X	4.679	3.5
47	MP5B	Z	-8.105	3.5
48	MP5B	Mx	.004	3.5
49	MP5C	X	4.679	1.5
50	MP5C	Z	-8.105	1.5
51	MP5C	Mx	-.004	1.5
52	MP5C	X	4.679	3.5
53	MP5C	Z	-8.105	3.5
54	MP5C	Mx	-.004	3.5
55	M55	X	12.272	1
56	M55	Z	-21.255	1
57	M55	Mx	0	1
58	MP4A	X	3.95	.5
59	MP4A	Z	-6.841	.5
60	MP4A	Mx	0	.5
61	MP4B	X	2.654	.5
62	MP4B	Z	-4.597	.5
63	MP4B	Mx	-.002	.5
64	MP4C	X	2.654	.5
65	MP4C	Z	-4.597	.5
66	MP4C	Mx	.002	.5
67	MP3A	X	6.926	2.5
68	MP3A	Z	-11.996	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	5.347	2.5
71	MP3B	Z	-9.262	2.5
72	MP3B	Mx	-.005	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3C	X	5.347	2.5
74	MP3C	Z	-9.262	2.5
75	MP3C	Mx	.005	2.5
76	MP4A	X	6.926	2.5
77	MP4A	Z	-11.996	2.5
78	MP4A	Mx	0	2.5
79	MP4B	X	5.063	2.5
80	MP4B	Z	-8.77	2.5
81	MP4B	Mx	-.004	2.5
82	MP4C	X	5.063	2.5
83	MP4C	Z	-8.77	2.5
84	MP4C	Mx	.004	2.5
85	MP2A	X	12.955	.5
86	MP2A	Z	-22.439	.5
87	MP2A	Mx	0	.5
88	MP2A	X	12.955	4.5
89	MP2A	Z	-22.439	4.5
90	MP2A	Mx	0	4.5
91	MP2C	X	8.937	.5
92	MP2C	Z	-15.479	.5
93	MP2C	Mx	-.008	.5
94	MP2C	X	8.937	4.5
95	MP2C	Z	-15.479	4.5
96	MP2C	Mx	-.008	4.5
97	M57	X	12.272	1
98	M57	Z	-21.255	1
99	M57	Mx	0	1
100	MP2B	X	8.73	.5
101	MP2B	Z	-15.121	.5
102	MP2B	Mx	.008	.5
103	MP2B	X	8.73	4.5
104	MP2B	Z	-15.121	4.5
105	MP2B	Mx	.008	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	22.012	.25
2	MP4A	Z	-12.709	.25
3	MP4A	Mx	.006	.25
4	MP4A	X	22.012	4.75
5	MP4A	Z	-12.709	4.75
6	MP4A	Mx	.006	4.75
7	MP4B	X	16.466	.25
8	MP4B	Z	-9.507	.25
9	MP4B	Mx	.01	.25
10	MP4B	X	16.466	4.75
11	MP4B	Z	-9.507	4.75
12	MP4B	Mx	.01	4.75
13	MP4C	X	22.012	.25
14	MP4C	Z	-12.709	.25
15	MP4C	Mx	-.019	.25
16	MP4C	X	22.012	4.75
17	MP4C	Z	-12.709	4.75
18	MP4C	Mx	-.019	4.75
19	MP4A	X	22.012	.25
20	MP4A	Z	-12.709	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP4A	Mx	-.019	.25
22	MP4A	X	22.012	4.75
23	MP4A	Z	-12.709	4.75
24	MP4A	Mx	-.019	4.75
25	MP4B	X	16.466	.25
26	MP4B	Z	-9.507	.25
27	MP4B	Mx	.01	.25
28	MP4B	X	16.466	4.75
29	MP4B	Z	-9.507	4.75
30	MP4B	Mx	.01	4.75
31	MP4C	X	22.012	.25
32	MP4C	Z	-12.709	.25
33	MP4C	Mx	.006	.25
34	MP4C	X	22.012	4.75
35	MP4C	Z	-12.709	4.75
36	MP4C	Mx	.006	4.75
37	MP5A	X	12.181	1.5
38	MP5A	Z	-7.033	1.5
39	MP5A	Mx	-.004	1.5
40	MP5A	X	12.181	3.5
41	MP5A	Z	-7.033	3.5
42	MP5A	Mx	-.004	3.5
43	MP5B	X	6.066	1.5
44	MP5B	Z	-3.502	1.5
45	MP5B	Mx	.004	1.5
46	MP5B	X	6.066	3.5
47	MP5B	Z	-3.502	3.5
48	MP5B	Mx	.004	3.5
49	MP5C	X	12.181	1.5
50	MP5C	Z	-7.033	1.5
51	MP5C	Mx	-.004	1.5
52	MP5C	X	12.181	3.5
53	MP5C	Z	-7.033	3.5
54	MP5C	Mx	-.004	3.5
55	M55	X	17.615	1
56	M55	Z	-10.17	1
57	M55	Mx	0	1
58	MP4A	X	6.093	.5
59	MP4A	Z	-3.518	.5
60	MP4A	Mx	.002	.5
61	MP4B	X	3.849	.5
62	MP4B	Z	-2.222	.5
63	MP4B	Mx	-.002	.5
64	MP4C	X	6.093	.5
65	MP4C	Z	-3.518	.5
66	MP4C	Mx	.002	.5
67	MP3A	X	11.085	2.5
68	MP3A	Z	-6.4	2.5
69	MP3A	Mx	.003	2.5
70	MP3B	X	8.351	2.5
71	MP3B	Z	-4.821	2.5
72	MP3B	Mx	-.005	2.5
73	MP3C	X	11.085	2.5
74	MP3C	Z	-6.4	2.5
75	MP3C	Mx	.003	2.5
76	MP4A	X	10.921	2.5
77	MP4A	Z	-6.305	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
78	MP4A	Mx	.003	2.5
79	MP4B	X	7.694	2.5
80	MP4B	Z	-4.442	2.5
81	MP4B	Mx	-.004	2.5
82	MP4C	X	10.921	2.5
83	MP4C	Z	-6.305	2.5
84	MP4C	Mx	.003	2.5
85	MP2A	X	20.119	.5
86	MP2A	Z	-11.616	.5
87	MP2A	Mx	-.006	.5
88	MP2A	X	20.119	4.5
89	MP2A	Z	-11.616	4.5
90	MP2A	Mx	-.006	4.5
91	MP2C	X	20.119	.5
92	MP2C	Z	-11.616	.5
93	MP2C	Mx	-.006	.5
94	MP2C	X	20.119	4.5
95	MP2C	Z	-11.616	4.5
96	MP2C	Mx	-.006	4.5
97	M57	X	17.615	1
98	M57	Z	-10.17	1
99	M57	Mx	0	1
100	MP2B	X	14.284	.5
101	MP2B	Z	-8.247	.5
102	MP2B	Mx	.008	.5
103	MP2B	X	14.284	4.5
104	MP2B	Z	-8.247	4.5
105	MP2B	Mx	.008	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	21.148	.25
2	MP4A	Z	0	.25
3	MP4A	Mx	-.003	.25
4	MP4A	X	21.148	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	-.003	4.75
7	MP4B	X	21.148	.25
8	MP4B	Z	0	.25
9	MP4B	Mx	.015	.25
10	MP4B	X	21.148	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	.015	4.75
13	MP4C	X	27.552	.25
14	MP4C	Z	0	.25
15	MP4C	Mx	-.016	.25
16	MP4C	X	27.552	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	-.016	4.75
19	MP4A	X	21.148	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	-.015	.25
22	MP4A	X	21.148	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	-.015	4.75
25	MP4B	X	21.148	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
26	MP4B	Z	0	.25
27	MP4B	Mx	.003	.25
28	MP4B	X	21.148	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	.003	4.75
31	MP4C	X	27.552	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	.016	.25
34	MP4C	X	27.552	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	.016	4.75
37	MP5A	X	9.358	1.5
38	MP5A	Z	0	1.5
39	MP5A	Mx	-.004	1.5
40	MP5A	X	9.358	3.5
41	MP5A	Z	0	3.5
42	MP5A	Mx	-.004	3.5
43	MP5B	X	9.358	1.5
44	MP5B	Z	0	1.5
45	MP5B	Mx	.004	1.5
46	MP5B	X	9.358	3.5
47	MP5B	Z	0	3.5
48	MP5B	Mx	.004	3.5
49	MP5C	X	16.419	1.5
50	MP5C	Z	0	1.5
51	MP5C	Mx	0	1.5
52	MP5C	X	16.419	3.5
53	MP5C	Z	0	3.5
54	MP5C	Mx	0	3.5
55	M55	X	18.238	1
56	M55	Z	0	1
57	M55	Mx	0	1
58	MP4A	X	5.308	.5
59	MP4A	Z	0	.5
60	MP4A	Mx	.002	.5
61	MP4B	X	5.308	.5
62	MP4B	Z	0	.5
63	MP4B	Mx	-.002	.5
64	MP4C	X	7.9	.5
65	MP4C	Z	0	.5
66	MP4C	Mx	0	.5
67	MP3A	X	10.695	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.005	2.5
70	MP3B	X	10.695	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.005	2.5
73	MP3C	X	13.852	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	0	2.5
76	MP4A	X	10.127	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	.004	2.5
79	MP4B	X	10.127	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	-.004	2.5
82	MP4C	X	13.852	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
83	MP4C	Z	0	2.5
84	MP4C	Mx	0	2.5
85	MP2A	X	17.874	.5
86	MP2A	Z	0	.5
87	MP2A	Mx	-.008	.5
88	MP2A	X	17.874	4.5
89	MP2A	Z	0	4.5
90	MP2A	Mx	-.008	4.5
91	MP2C	X	25.911	.5
92	MP2C	Z	0	.5
93	MP2C	Mx	0	.5
94	MP2C	X	25.911	4.5
95	MP2C	Z	0	4.5
96	MP2C	Mx	0	4.5
97	M57	X	18.238	1
98	M57	Z	0	1
99	M57	Mx	0	1
100	MP2B	X	17.46	.5
101	MP2B	Z	0	.5
102	MP2B	Mx	.008	.5
103	MP2B	X	17.46	4.5
104	MP2B	Z	0	4.5
105	MP2B	Mx	.008	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	16.466	.25
2	MP4A	Z	9.507	.25
3	MP4A	Mx	-.01	.25
4	MP4A	X	16.466	4.75
5	MP4A	Z	9.507	4.75
6	MP4A	Mx	-.01	4.75
7	MP4B	X	22.012	.25
8	MP4B	Z	12.709	.25
9	MP4B	Mx	.019	.25
10	MP4B	X	22.012	4.75
11	MP4B	Z	12.709	4.75
12	MP4B	Mx	.019	4.75
13	MP4C	X	22.012	.25
14	MP4C	Z	12.709	.25
15	MP4C	Mx	-.006	.25
16	MP4C	X	22.012	4.75
17	MP4C	Z	12.709	4.75
18	MP4C	Mx	-.006	4.75
19	MP4A	X	16.466	.25
20	MP4A	Z	9.507	.25
21	MP4A	Mx	-.01	.25
22	MP4A	X	16.466	4.75
23	MP4A	Z	9.507	4.75
24	MP4A	Mx	-.01	4.75
25	MP4B	X	22.012	.25
26	MP4B	Z	12.709	.25
27	MP4B	Mx	-.006	.25
28	MP4B	X	22.012	4.75
29	MP4B	Z	12.709	4.75
30	MP4B	Mx	-.006	4.75



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP4C	X	22.012	.25
32	MP4C	Z	12.709	.25
33	MP4C	Mx	.019	.25
34	MP4C	X	22.012	4.75
35	MP4C	Z	12.709	4.75
36	MP4C	Mx	.019	4.75
37	MP5A	X	6.066	1.5
38	MP5A	Z	3.502	1.5
39	MP5A	Mx	-.004	1.5
40	MP5A	X	6.066	3.5
41	MP5A	Z	3.502	3.5
42	MP5A	Mx	-.004	3.5
43	MP5B	X	12.181	1.5
44	MP5B	Z	7.033	1.5
45	MP5B	Mx	.004	1.5
46	MP5B	X	12.181	3.5
47	MP5B	Z	7.033	3.5
48	MP5B	Mx	.004	3.5
49	MP5C	X	12.181	1.5
50	MP5C	Z	7.033	1.5
51	MP5C	Mx	.004	1.5
52	MP5C	X	12.181	3.5
53	MP5C	Z	7.033	3.5
54	MP5C	Mx	.004	3.5
55	M55	X	17.615	1
56	M55	Z	10.17	1
57	M55	Mx	0	1
58	MP4A	X	3.849	.5
59	MP4A	Z	2.222	.5
60	MP4A	Mx	.002	.5
61	MP4B	X	6.093	.5
62	MP4B	Z	3.518	.5
63	MP4B	Mx	-.002	.5
64	MP4C	X	6.093	.5
65	MP4C	Z	3.518	.5
66	MP4C	Mx	-.002	.5
67	MP3A	X	8.351	2.5
68	MP3A	Z	4.821	2.5
69	MP3A	Mx	.005	2.5
70	MP3B	X	11.085	2.5
71	MP3B	Z	6.4	2.5
72	MP3B	Mx	-.003	2.5
73	MP3C	X	11.085	2.5
74	MP3C	Z	6.4	2.5
75	MP3C	Mx	-.003	2.5
76	MP4A	X	7.694	2.5
77	MP4A	Z	4.442	2.5
78	MP4A	Mx	.004	2.5
79	MP4B	X	10.921	2.5
80	MP4B	Z	6.305	2.5
81	MP4B	Mx	-.003	2.5
82	MP4C	X	10.921	2.5
83	MP4C	Z	6.305	2.5
84	MP4C	Mx	-.003	2.5
85	MP2A	X	13.159	.5
86	MP2A	Z	7.598	.5
87	MP2A	Mx	-.008	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
88	MP2A	X	13.159	4.5
89	MP2A	Z	7.598	4.5
90	MP2A	Mx	-.008	4.5
91	MP2C	X	20.119	.5
92	MP2C	Z	11.616	.5
93	MP2C	Mx	.006	.5
94	MP2C	X	20.119	4.5
95	MP2C	Z	11.616	4.5
96	MP2C	Mx	.006	4.5
97	M57	X	17.615	1
98	M57	Z	10.17	1
99	M57	Mx	0	1
100	MP2B	X	16.795	.5
101	MP2B	Z	9.697	.5
102	MP2B	Mx	.005	.5
103	MP2B	X	16.795	4.5
104	MP2B	Z	9.697	4.5
105	MP2B	Mx	.005	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	10.574	.25
2	MP4A	Z	18.315	.25
3	MP4A	Mx	-.015	.25
4	MP4A	X	10.574	4.75
5	MP4A	Z	18.315	4.75
6	MP4A	Mx	-.015	4.75
7	MP4B	X	13.776	.25
8	MP4B	Z	23.861	.25
9	MP4B	Mx	.016	.25
10	MP4B	X	13.776	4.75
11	MP4B	Z	23.861	4.75
12	MP4B	Mx	.016	4.75
13	MP4C	X	10.574	.25
14	MP4C	Z	18.315	.25
15	MP4C	Mx	.003	.25
16	MP4C	X	10.574	4.75
17	MP4C	Z	18.315	4.75
18	MP4C	Mx	.003	4.75
19	MP4A	X	10.574	.25
20	MP4A	Z	18.315	.25
21	MP4A	Mx	-.003	.25
22	MP4A	X	10.574	4.75
23	MP4A	Z	18.315	4.75
24	MP4A	Mx	-.003	4.75
25	MP4B	X	13.776	.25
26	MP4B	Z	23.861	.25
27	MP4B	Mx	-.016	.25
28	MP4B	X	13.776	4.75
29	MP4B	Z	23.861	4.75
30	MP4B	Mx	-.016	4.75
31	MP4C	X	10.574	.25
32	MP4C	Z	18.315	.25
33	MP4C	Mx	.015	.25
34	MP4C	X	10.574	4.75
35	MP4C	Z	18.315	4.75



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP4C	Mx	.015	4.75
37	MP5A	X	4.679	1.5
38	MP5A	Z	8.105	1.5
39	MP5A	Mx	-.004	1.5
40	MP5A	X	4.679	3.5
41	MP5A	Z	8.105	3.5
42	MP5A	Mx	-.004	3.5
43	MP5B	X	8.21	1.5
44	MP5B	Z	14.219	1.5
45	MP5B	Mx	0	1.5
46	MP5B	X	8.21	3.5
47	MP5B	Z	14.219	3.5
48	MP5B	Mx	0	3.5
49	MP5C	X	4.679	1.5
50	MP5C	Z	8.105	1.5
51	MP5C	Mx	.004	1.5
52	MP5C	X	4.679	3.5
53	MP5C	Z	8.105	3.5
54	MP5C	Mx	.004	3.5
55	M55	X	12.272	1
56	M55	Z	21.255	1
57	M55	Mx	0	1
58	MP4A	X	2.654	.5
59	MP4A	Z	4.597	.5
60	MP4A	Mx	.002	.5
61	MP4B	X	3.95	.5
62	MP4B	Z	6.841	.5
63	MP4B	Mx	0	.5
64	MP4C	X	2.654	.5
65	MP4C	Z	4.597	.5
66	MP4C	Mx	-.002	.5
67	MP3A	X	5.347	2.5
68	MP3A	Z	9.262	2.5
69	MP3A	Mx	.005	2.5
70	MP3B	X	6.926	2.5
71	MP3B	Z	11.996	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	5.347	2.5
74	MP3C	Z	9.262	2.5
75	MP3C	Mx	-.005	2.5
76	MP4A	X	5.063	2.5
77	MP4A	Z	8.77	2.5
78	MP4A	Mx	.004	2.5
79	MP4B	X	6.926	2.5
80	MP4B	Z	11.996	2.5
81	MP4B	Mx	0	2.5
82	MP4C	X	5.063	2.5
83	MP4C	Z	8.77	2.5
84	MP4C	Mx	-.004	2.5
85	MP2A	X	8.937	.5
86	MP2A	Z	15.479	.5
87	MP2A	Mx	-.008	.5
88	MP2A	X	8.937	4.5
89	MP2A	Z	15.479	4.5
90	MP2A	Mx	-.008	4.5
91	MP2C	X	8.937	.5
92	MP2C	Z	15.479	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP2C	Mx	.008	.5
94	MP2C	X	8.937	4.5
95	MP2C	Z	15.479	4.5
96	MP2C	Mx	.008	4.5
97	M57	X	12.272	1
98	M57	Z	21.255	1
99	M57	Mx	0	1
100	MP2B	X	10.18	.5
101	MP2B	Z	17.633	.5
102	MP2B	Mx	0	.5
103	MP2B	X	10.18	4.5
104	MP2B	Z	17.633	4.5
105	MP2B	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	0	.25
2	MP4A	Z	25.418	.25
3	MP4A	Mx	-.019	.25
4	MP4A	X	0	4.75
5	MP4A	Z	25.418	4.75
6	MP4A	Mx	-.019	4.75
7	MP4B	X	0	.25
8	MP4B	Z	25.418	.25
9	MP4B	Mx	.006	.25
10	MP4B	X	0	4.75
11	MP4B	Z	25.418	4.75
12	MP4B	Mx	.006	4.75
13	MP4C	X	0	.25
14	MP4C	Z	19.013	.25
15	MP4C	Mx	.01	.25
16	MP4C	X	0	4.75
17	MP4C	Z	19.013	4.75
18	MP4C	Mx	.01	4.75
19	MP4A	X	0	.25
20	MP4A	Z	25.418	.25
21	MP4A	Mx	.006	.25
22	MP4A	X	0	4.75
23	MP4A	Z	25.418	4.75
24	MP4A	Mx	.006	4.75
25	MP4B	X	0	.25
26	MP4B	Z	25.418	.25
27	MP4B	Mx	-.019	.25
28	MP4B	X	0	4.75
29	MP4B	Z	25.418	4.75
30	MP4B	Mx	-.019	4.75
31	MP4C	X	0	.25
32	MP4C	Z	19.013	.25
33	MP4C	Mx	.01	.25
34	MP4C	X	0	4.75
35	MP4C	Z	19.013	4.75
36	MP4C	Mx	.01	4.75
37	MP5A	X	0	1.5
38	MP5A	Z	14.066	1.5
39	MP5A	Mx	-.004	1.5
40	MP5A	X	0	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP5A	Z	14.066	3.5
42	MP5A	Mx	-.004	3.5
43	MP5B	X	0	1.5
44	MP5B	Z	14.066	1.5
45	MP5B	Mx	-.004	1.5
46	MP5B	X	0	3.5
47	MP5B	Z	14.066	3.5
48	MP5B	Mx	-.004	3.5
49	MP5C	X	0	1.5
50	MP5C	Z	7.005	1.5
51	MP5C	Mx	.004	1.5
52	MP5C	X	0	3.5
53	MP5C	Z	7.005	3.5
54	MP5C	Mx	.004	3.5
55	M55	X	0	1
56	M55	Z	26.645	1
57	M55	Mx	0	1
58	MP4A	X	0	.5
59	MP4A	Z	7.036	.5
60	MP4A	Mx	.002	.5
61	MP4B	X	0	.5
62	MP4B	Z	7.036	.5
63	MP4B	Mx	.002	.5
64	MP4C	X	0	.5
65	MP4C	Z	4.444	.5
66	MP4C	Mx	-.002	.5
67	MP3A	X	0	2.5
68	MP3A	Z	12.8	2.5
69	MP3A	Mx	.003	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	12.8	2.5
72	MP3B	Mx	.003	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	9.643	2.5
75	MP3C	Mx	-.005	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	12.61	2.5
78	MP4A	Mx	.003	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	12.61	2.5
81	MP4B	Mx	.003	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	8.885	2.5
84	MP4C	Mx	-.004	2.5
85	MP2A	X	0	.5
86	MP2A	Z	23.232	.5
87	MP2A	Mx	-.006	.5
88	MP2A	X	0	4.5
89	MP2A	Z	23.232	4.5
90	MP2A	Mx	-.006	4.5
91	MP2C	X	0	.5
92	MP2C	Z	15.195	.5
93	MP2C	Mx	.008	.5
94	MP2C	X	0	4.5
95	MP2C	Z	15.195	4.5
96	MP2C	Mx	.008	4.5
97	M57	X	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	M57	Z	26.645	1
99	M57	Mx	0	1
100	MP2B	X	0	.5
101	MP2B	Z	19.394	.5
102	MP2B	Mx	-.005	.5
103	MP2B	X	0	4.5
104	MP2B	Z	19.394	4.5
105	MP2B	Mx	-.005	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-13.776	.25
2	MP4A	Z	23.861	.25
3	MP4A	Mx	-.016	.25
4	MP4A	X	-13.776	4.75
5	MP4A	Z	23.861	4.75
6	MP4A	Mx	-.016	4.75
7	MP4B	X	-10.574	.25
8	MP4B	Z	18.315	.25
9	MP4B	Mx	-.003	.25
10	MP4B	X	-10.574	4.75
11	MP4B	Z	18.315	4.75
12	MP4B	Mx	-.003	4.75
13	MP4C	X	-10.574	.25
14	MP4C	Z	18.315	.25
15	MP4C	Mx	.015	.25
16	MP4C	X	-10.574	4.75
17	MP4C	Z	18.315	4.75
18	MP4C	Mx	.015	4.75
19	MP4A	X	-13.776	.25
20	MP4A	Z	23.861	.25
21	MP4A	Mx	.016	.25
22	MP4A	X	-13.776	4.75
23	MP4A	Z	23.861	4.75
24	MP4A	Mx	.016	4.75
25	MP4B	X	-10.574	.25
26	MP4B	Z	18.315	.25
27	MP4B	Mx	-.015	.25
28	MP4B	X	-10.574	4.75
29	MP4B	Z	18.315	4.75
30	MP4B	Mx	-.015	4.75
31	MP4C	X	-10.574	.25
32	MP4C	Z	18.315	.25
33	MP4C	Mx	.003	.25
34	MP4C	X	-10.574	4.75
35	MP4C	Z	18.315	4.75
36	MP4C	Mx	.003	4.75
37	MP5A	X	-8.21	1.5
38	MP5A	Z	14.219	1.5
39	MP5A	Mx	0	1.5
40	MP5A	X	-8.21	3.5
41	MP5A	Z	14.219	3.5
42	MP5A	Mx	0	3.5
43	MP5B	X	-4.679	1.5
44	MP5B	Z	8.105	1.5
45	MP5B	Mx	-.004	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP5B	X	-4.679	3.5
47	MP5B	Z	8.105	3.5
48	MP5B	Mx	-.004	3.5
49	MP5C	X	-4.679	1.5
50	MP5C	Z	8.105	1.5
51	MP5C	Mx	.004	1.5
52	MP5C	X	-4.679	3.5
53	MP5C	Z	8.105	3.5
54	MP5C	Mx	.004	3.5
55	M55	X	-12.272	1
56	M55	Z	21.255	1
57	M55	Mx	0	1
58	MP4A	X	-3.95	.5
59	MP4A	Z	6.841	.5
60	MP4A	Mx	0	.5
61	MP4B	X	-2.654	.5
62	MP4B	Z	4.597	.5
63	MP4B	Mx	.002	.5
64	MP4C	X	-2.654	.5
65	MP4C	Z	4.597	.5
66	MP4C	Mx	-.002	.5
67	MP3A	X	-6.926	2.5
68	MP3A	Z	11.996	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	-5.347	2.5
71	MP3B	Z	9.262	2.5
72	MP3B	Mx	.005	2.5
73	MP3C	X	-5.347	2.5
74	MP3C	Z	9.262	2.5
75	MP3C	Mx	-.005	2.5
76	MP4A	X	-6.926	2.5
77	MP4A	Z	11.996	2.5
78	MP4A	Mx	0	2.5
79	MP4B	X	-5.063	2.5
80	MP4B	Z	8.77	2.5
81	MP4B	Mx	.004	2.5
82	MP4C	X	-5.063	2.5
83	MP4C	Z	8.77	2.5
84	MP4C	Mx	-.004	2.5
85	MP2A	X	-12.955	.5
86	MP2A	Z	22.439	.5
87	MP2A	Mx	0	.5
88	MP2A	X	-12.955	4.5
89	MP2A	Z	22.439	4.5
90	MP2A	Mx	0	4.5
91	MP2C	X	-8.937	.5
92	MP2C	Z	15.479	.5
93	MP2C	Mx	.008	.5
94	MP2C	X	-8.937	4.5
95	MP2C	Z	15.479	4.5
96	MP2C	Mx	.008	4.5
97	M57	X	-12.272	1
98	M57	Z	21.255	1
99	M57	Mx	0	1
100	MP2B	X	-8.73	.5
101	MP2B	Z	15.121	.5
102	MP2B	Mx	-.008	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2B	X	-8.73	4.5
104	MP2B	Z	15.121	4.5
105	MP2B	Mx	-.008	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-22.012	.25
2	MP4A	Z	12.709	.25
3	MP4A	Mx	-.006	.25
4	MP4A	X	-22.012	4.75
5	MP4A	Z	12.709	4.75
6	MP4A	Mx	-.006	4.75
7	MP4B	X	-16.466	.25
8	MP4B	Z	9.507	.25
9	MP4B	Mx	-.01	.25
10	MP4B	X	-16.466	4.75
11	MP4B	Z	9.507	4.75
12	MP4B	Mx	-.01	4.75
13	MP4C	X	-22.012	.25
14	MP4C	Z	12.709	.25
15	MP4C	Mx	.019	.25
16	MP4C	X	-22.012	4.75
17	MP4C	Z	12.709	4.75
18	MP4C	Mx	.019	4.75
19	MP4A	X	-22.012	.25
20	MP4A	Z	12.709	.25
21	MP4A	Mx	.019	.25
22	MP4A	X	-22.012	4.75
23	MP4A	Z	12.709	4.75
24	MP4A	Mx	.019	4.75
25	MP4B	X	-16.466	.25
26	MP4B	Z	9.507	.25
27	MP4B	Mx	-.01	.25
28	MP4B	X	-16.466	4.75
29	MP4B	Z	9.507	4.75
30	MP4B	Mx	-.01	4.75
31	MP4C	X	-22.012	.25
32	MP4C	Z	12.709	.25
33	MP4C	Mx	-.006	.25
34	MP4C	X	-22.012	4.75
35	MP4C	Z	12.709	4.75
36	MP4C	Mx	-.006	4.75
37	MP5A	X	-12.181	1.5
38	MP5A	Z	7.033	1.5
39	MP5A	Mx	.004	1.5
40	MP5A	X	-12.181	3.5
41	MP5A	Z	7.033	3.5
42	MP5A	Mx	.004	3.5
43	MP5B	X	-6.066	1.5
44	MP5B	Z	3.502	1.5
45	MP5B	Mx	-.004	1.5
46	MP5B	X	-6.066	3.5
47	MP5B	Z	3.502	3.5
48	MP5B	Mx	-.004	3.5
49	MP5C	X	-12.181	1.5
50	MP5C	Z	7.033	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP5C	Mx	.004	1.5
52	MP5C	X	-12.181	3.5
53	MP5C	Z	7.033	3.5
54	MP5C	Mx	.004	3.5
55	M55	X	-17.615	1
56	M55	Z	10.17	1
57	M55	Mx	0	1
58	MP4A	X	-6.093	.5
59	MP4A	Z	3.518	.5
60	MP4A	Mx	-.002	.5
61	MP4B	X	-3.849	.5
62	MP4B	Z	2.222	.5
63	MP4B	Mx	.002	.5
64	MP4C	X	-6.093	.5
65	MP4C	Z	3.518	.5
66	MP4C	Mx	-.002	.5
67	MP3A	X	-11.085	2.5
68	MP3A	Z	6.4	2.5
69	MP3A	Mx	-.003	2.5
70	MP3B	X	-8.351	2.5
71	MP3B	Z	4.821	2.5
72	MP3B	Mx	.005	2.5
73	MP3C	X	-11.085	2.5
74	MP3C	Z	6.4	2.5
75	MP3C	Mx	-.003	2.5
76	MP4A	X	-10.921	2.5
77	MP4A	Z	6.305	2.5
78	MP4A	Mx	-.003	2.5
79	MP4B	X	-7.694	2.5
80	MP4B	Z	4.442	2.5
81	MP4B	Mx	.004	2.5
82	MP4C	X	-10.921	2.5
83	MP4C	Z	6.305	2.5
84	MP4C	Mx	-.003	2.5
85	MP2A	X	-20.119	.5
86	MP2A	Z	11.616	.5
87	MP2A	Mx	.006	.5
88	MP2A	X	-20.119	4.5
89	MP2A	Z	11.616	4.5
90	MP2A	Mx	.006	4.5
91	MP2C	X	-20.119	.5
92	MP2C	Z	11.616	.5
93	MP2C	Mx	.006	.5
94	MP2C	X	-20.119	4.5
95	MP2C	Z	11.616	4.5
96	MP2C	Mx	.006	4.5
97	M57	X	-17.615	1
98	M57	Z	10.17	1
99	M57	Mx	0	1
100	MP2B	X	-14.284	.5
101	MP2B	Z	8.247	.5
102	MP2B	Mx	-.008	.5
103	MP2B	X	-14.284	4.5
104	MP2B	Z	8.247	4.5
105	MP2B	Mx	-.008	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-21.148	.25
2	MP4A	Z	0	.25
3	MP4A	Mx	.003	.25
4	MP4A	X	-21.148	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	.003	4.75
7	MP4B	X	-21.148	.25
8	MP4B	Z	0	.25
9	MP4B	Mx	-.015	.25
10	MP4B	X	-21.148	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	-.015	4.75
13	MP4C	X	-27.552	.25
14	MP4C	Z	0	.25
15	MP4C	Mx	.016	.25
16	MP4C	X	-27.552	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	.016	4.75
19	MP4A	X	-21.148	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	.015	.25
22	MP4A	X	-21.148	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	.015	4.75
25	MP4B	X	-21.148	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	-.003	.25
28	MP4B	X	-21.148	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	-.003	4.75
31	MP4C	X	-27.552	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	-.016	.25
34	MP4C	X	-27.552	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	-.016	4.75
37	MP5A	X	-9.358	1.5
38	MP5A	Z	0	1.5
39	MP5A	Mx	.004	1.5
40	MP5A	X	-9.358	3.5
41	MP5A	Z	0	3.5
42	MP5A	Mx	.004	3.5
43	MP5B	X	-9.358	1.5
44	MP5B	Z	0	1.5
45	MP5B	Mx	-.004	1.5
46	MP5B	X	-9.358	3.5
47	MP5B	Z	0	3.5
48	MP5B	Mx	-.004	3.5
49	MP5C	X	-16.419	1.5
50	MP5C	Z	0	1.5
51	MP5C	Mx	0	1.5
52	MP5C	X	-16.419	3.5
53	MP5C	Z	0	3.5
54	MP5C	Mx	0	3.5
55	M55	X	-18.238	1
56	M55	Z	0	1
57	M55	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP4A	X	-5.308	.5
59	MP4A	Z	0	.5
60	MP4A	Mx	-.002	.5
61	MP4B	X	-5.308	.5
62	MP4B	Z	0	.5
63	MP4B	Mx	.002	.5
64	MP4C	X	-7.9	.5
65	MP4C	Z	0	.5
66	MP4C	Mx	0	.5
67	MP3A	X	-10.695	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.005	2.5
70	MP3B	X	-10.695	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.005	2.5
73	MP3C	X	-13.852	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	0	2.5
76	MP4A	X	-10.127	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	-.004	2.5
79	MP4B	X	-10.127	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	.004	2.5
82	MP4C	X	-13.852	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	0	2.5
85	MP2A	X	-17.874	.5
86	MP2A	Z	0	.5
87	MP2A	Mx	.008	.5
88	MP2A	X	-17.874	4.5
89	MP2A	Z	0	4.5
90	MP2A	Mx	.008	4.5
91	MP2C	X	-25.911	.5
92	MP2C	Z	0	.5
93	MP2C	Mx	0	.5
94	MP2C	X	-25.911	4.5
95	MP2C	Z	0	4.5
96	MP2C	Mx	0	4.5
97	M57	X	-18.238	1
98	M57	Z	0	1
99	M57	Mx	0	1
100	MP2B	X	-17.46	.5
101	MP2B	Z	0	.5
102	MP2B	Mx	-.008	.5
103	MP2B	X	-17.46	4.5
104	MP2B	Z	0	4.5
105	MP2B	Mx	-.008	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-16.466	.25
2	MP4A	Z	-9.507	.25
3	MP4A	Mx	.01	.25
4	MP4A	X	-16.466	4.75
5	MP4A	Z	-9.507	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP4A	Mx	.01	4.75
7	MP4B	X	-22.012	.25
8	MP4B	Z	-12.709	.25
9	MP4B	Mx	-.019	.25
10	MP4B	X	-22.012	4.75
11	MP4B	Z	-12.709	4.75
12	MP4B	Mx	-.019	4.75
13	MP4C	X	-22.012	.25
14	MP4C	Z	-12.709	.25
15	MP4C	Mx	.006	.25
16	MP4C	X	-22.012	4.75
17	MP4C	Z	-12.709	4.75
18	MP4C	Mx	.006	4.75
19	MP4A	X	-16.466	.25
20	MP4A	Z	-9.507	.25
21	MP4A	Mx	.01	.25
22	MP4A	X	-16.466	4.75
23	MP4A	Z	-9.507	4.75
24	MP4A	Mx	.01	4.75
25	MP4B	X	-22.012	.25
26	MP4B	Z	-12.709	.25
27	MP4B	Mx	.006	.25
28	MP4B	X	-22.012	4.75
29	MP4B	Z	-12.709	4.75
30	MP4B	Mx	.006	4.75
31	MP4C	X	-22.012	.25
32	MP4C	Z	-12.709	.25
33	MP4C	Mx	-.019	.25
34	MP4C	X	-22.012	4.75
35	MP4C	Z	-12.709	4.75
36	MP4C	Mx	-.019	4.75
37	MP5A	X	-6.066	1.5
38	MP5A	Z	-3.502	1.5
39	MP5A	Mx	.004	1.5
40	MP5A	X	-6.066	3.5
41	MP5A	Z	-3.502	3.5
42	MP5A	Mx	.004	3.5
43	MP5B	X	-12.181	1.5
44	MP5B	Z	-7.033	1.5
45	MP5B	Mx	-.004	1.5
46	MP5B	X	-12.181	3.5
47	MP5B	Z	-7.033	3.5
48	MP5B	Mx	-.004	3.5
49	MP5C	X	-12.181	1.5
50	MP5C	Z	-7.033	1.5
51	MP5C	Mx	-.004	1.5
52	MP5C	X	-12.181	3.5
53	MP5C	Z	-7.033	3.5
54	MP5C	Mx	-.004	3.5
55	M55	X	-17.615	1
56	M55	Z	-10.17	1
57	M55	Mx	0	1
58	MP4A	X	-3.849	.5
59	MP4A	Z	-2.222	.5
60	MP4A	Mx	-.002	.5
61	MP4B	X	-6.093	.5
62	MP4B	Z	-3.518	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
63	MP4B	Mx	.002	.5
64	MP4C	X	-6.093	.5
65	MP4C	Z	-3.518	.5
66	MP4C	Mx	.002	.5
67	MP3A	X	-8.351	2.5
68	MP3A	Z	-4.821	2.5
69	MP3A	Mx	-.005	2.5
70	MP3B	X	-11.085	2.5
71	MP3B	Z	-6.4	2.5
72	MP3B	Mx	.003	2.5
73	MP3C	X	-11.085	2.5
74	MP3C	Z	-6.4	2.5
75	MP3C	Mx	.003	2.5
76	MP4A	X	-7.694	2.5
77	MP4A	Z	-4.442	2.5
78	MP4A	Mx	-.004	2.5
79	MP4B	X	-10.921	2.5
80	MP4B	Z	-6.305	2.5
81	MP4B	Mx	.003	2.5
82	MP4C	X	-10.921	2.5
83	MP4C	Z	-6.305	2.5
84	MP4C	Mx	.003	2.5
85	MP2A	X	-13.159	.5
86	MP2A	Z	-7.598	.5
87	MP2A	Mx	.008	.5
88	MP2A	X	-13.159	4.5
89	MP2A	Z	-7.598	4.5
90	MP2A	Mx	.008	4.5
91	MP2C	X	-20.119	.5
92	MP2C	Z	-11.616	.5
93	MP2C	Mx	-.006	.5
94	MP2C	X	-20.119	4.5
95	MP2C	Z	-11.616	4.5
96	MP2C	Mx	-.006	4.5
97	M57	X	-17.615	1
98	M57	Z	-10.17	1
99	M57	Mx	0	1
100	MP2B	X	-16.795	.5
101	MP2B	Z	-9.697	.5
102	MP2B	Mx	-.005	.5
103	MP2B	X	-16.795	4.5
104	MP2B	Z	-9.697	4.5
105	MP2B	Mx	-.005	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-10.574	.25
2	MP4A	Z	-18.315	.25
3	MP4A	Mx	.015	.25
4	MP4A	X	-10.574	4.75
5	MP4A	Z	-18.315	4.75
6	MP4A	Mx	.015	4.75
7	MP4B	X	-13.776	.25
8	MP4B	Z	-23.861	.25
9	MP4B	Mx	-.016	.25
10	MP4B	X	-13.776	4.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
11	MP4B	Z	-23.861	4.75
12	MP4B	Mx	-.016	4.75
13	MP4C	X	-10.574	.25
14	MP4C	Z	-18.315	.25
15	MP4C	Mx	-.003	.25
16	MP4C	X	-10.574	4.75
17	MP4C	Z	-18.315	4.75
18	MP4C	Mx	-.003	4.75
19	MP4A	X	-10.574	.25
20	MP4A	Z	-18.315	.25
21	MP4A	Mx	.003	.25
22	MP4A	X	-10.574	4.75
23	MP4A	Z	-18.315	4.75
24	MP4A	Mx	.003	4.75
25	MP4B	X	-13.776	.25
26	MP4B	Z	-23.861	.25
27	MP4B	Mx	.016	.25
28	MP4B	X	-13.776	4.75
29	MP4B	Z	-23.861	4.75
30	MP4B	Mx	.016	4.75
31	MP4C	X	-10.574	.25
32	MP4C	Z	-18.315	.25
33	MP4C	Mx	-.015	.25
34	MP4C	X	-10.574	4.75
35	MP4C	Z	-18.315	4.75
36	MP4C	Mx	-.015	4.75
37	MP5A	X	-4.679	1.5
38	MP5A	Z	-8.105	1.5
39	MP5A	Mx	.004	1.5
40	MP5A	X	-4.679	3.5
41	MP5A	Z	-8.105	3.5
42	MP5A	Mx	.004	3.5
43	MP5B	X	-8.21	1.5
44	MP5B	Z	-14.219	1.5
45	MP5B	Mx	0	1.5
46	MP5B	X	-8.21	3.5
47	MP5B	Z	-14.219	3.5
48	MP5B	Mx	0	3.5
49	MP5C	X	-4.679	1.5
50	MP5C	Z	-8.105	1.5
51	MP5C	Mx	-.004	1.5
52	MP5C	X	-4.679	3.5
53	MP5C	Z	-8.105	3.5
54	MP5C	Mx	-.004	3.5
55	M55	X	-12.272	1
56	M55	Z	-21.255	1
57	M55	Mx	0	1
58	MP4A	X	-2.654	.5
59	MP4A	Z	-4.597	.5
60	MP4A	Mx	-.002	.5
61	MP4B	X	-3.95	.5
62	MP4B	Z	-6.841	.5
63	MP4B	Mx	0	.5
64	MP4C	X	-2.654	.5
65	MP4C	Z	-4.597	.5
66	MP4C	Mx	.002	.5
67	MP3A	X	-5.347	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
68	MP3A	Z	-9.262	2.5
69	MP3A	Mx	-0.005	2.5
70	MP3B	X	-6.926	2.5
71	MP3B	Z	-11.996	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	-5.347	2.5
74	MP3C	Z	-9.262	2.5
75	MP3C	Mx	.005	2.5
76	MP4A	X	-5.063	2.5
77	MP4A	Z	-8.77	2.5
78	MP4A	Mx	-.004	2.5
79	MP4B	X	-6.926	2.5
80	MP4B	Z	-11.996	2.5
81	MP4B	Mx	0	2.5
82	MP4C	X	-5.063	2.5
83	MP4C	Z	-8.77	2.5
84	MP4C	Mx	.004	2.5
85	MP2A	X	-8.937	.5
86	MP2A	Z	-15.479	.5
87	MP2A	Mx	.008	.5
88	MP2A	X	-8.937	4.5
89	MP2A	Z	-15.479	4.5
90	MP2A	Mx	.008	4.5
91	MP2C	X	-8.937	.5
92	MP2C	Z	-15.479	.5
93	MP2C	Mx	-.008	.5
94	MP2C	X	-8.937	4.5
95	MP2C	Z	-15.479	4.5
96	MP2C	Mx	-.008	4.5
97	M57	X	-12.272	1
98	M57	Z	-21.255	1
99	M57	Mx	0	1
100	MP2B	X	-10.18	.5
101	MP2B	Z	-17.633	.5
102	MP2B	Mx	0	.5
103	MP2B	X	-10.18	4.5
104	MP2B	Z	-17.633	4.5
105	MP2B	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	.25
2	MP4A	Z	-8.215	.25
3	MP4A	Mx	.006	.25
4	MP4A	X	0	4.75
5	MP4A	Z	-8.215	4.75
6	MP4A	Mx	.006	4.75
7	MP4B	X	0	.25
8	MP4B	Z	-8.215	.25
9	MP4B	Mx	-.002	.25
10	MP4B	X	0	4.75
11	MP4B	Z	-8.215	4.75
12	MP4B	Mx	-.002	4.75
13	MP4C	X	0	.25
14	MP4C	Z	-5.934	.25
15	MP4C	Mx	-.003	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4C	X	0	4.75
17	MP4C	Z	-5.934	4.75
18	MP4C	Mx	-.003	4.75
19	MP4A	X	0	.25
20	MP4A	Z	-8.19	.25
21	MP4A	Mx	-.002	.25
22	MP4A	X	0	4.75
23	MP4A	Z	-8.19	4.75
24	MP4A	Mx	-.002	4.75
25	MP4B	X	0	.25
26	MP4B	Z	-8.19	.25
27	MP4B	Mx	.006	.25
28	MP4B	X	0	4.75
29	MP4B	Z	-8.19	4.75
30	MP4B	Mx	.006	4.75
31	MP4C	X	0	.25
32	MP4C	Z	-5.934	.25
33	MP4C	Mx	-.003	.25
34	MP4C	X	0	4.75
35	MP4C	Z	-5.934	4.75
36	MP4C	Mx	-.003	4.75
37	MP5A	X	0	1.5
38	MP5A	Z	-4.427	1.5
39	MP5A	Mx	.001	1.5
40	MP5A	X	0	3.5
41	MP5A	Z	-4.427	3.5
42	MP5A	Mx	.001	3.5
43	MP5B	X	0	1.5
44	MP5B	Z	-4.427	1.5
45	MP5B	Mx	.001	1.5
46	MP5B	X	0	3.5
47	MP5B	Z	-4.427	3.5
48	MP5B	Mx	.001	3.5
49	MP5C	X	0	1.5
50	MP5C	Z	-2.044	1.5
51	MP5C	Mx	-.001	1.5
52	MP5C	X	0	3.5
53	MP5C	Z	-2.044	3.5
54	MP5C	Mx	-.001	3.5
55	M55	X	0	1
56	M55	Z	-8.42	1
57	M55	Mx	0	1
58	MP4A	X	0	.5
59	MP4A	Z	-1.945	.5
60	MP4A	Mx	-.000486	.5
61	MP4B	X	0	.5
62	MP4B	Z	-1.945	.5
63	MP4B	Mx	-.000486	.5
64	MP4C	X	0	.5
65	MP4C	Z	-1.113	.5
66	MP4C	Mx	.000556	.5
67	MP3A	X	0	2.5
68	MP3A	Z	-3.81	2.5
69	MP3A	Mx	-.000952	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	-3.81	2.5
72	MP3B	Mx	-.000952	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP3C	X	0	2.5
74	MP3C	Z	-2.777	2.5
75	MP3C	Mx	.001	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	-3.748	2.5
78	MP4A	Mx	-.000937	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	-3.748	2.5
81	MP4B	Mx	-.000937	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	-2.527	2.5
84	MP4C	Mx	.001	2.5
85	MP2A	X	0	.5
86	MP2A	Z	-7.462	.5
87	MP2A	Mx	.002	.5
88	MP2A	X	0	4.5
89	MP2A	Z	-7.462	4.5
90	MP2A	Mx	.002	4.5
91	MP2C	X	0	.5
92	MP2C	Z	-4.619	.5
93	MP2C	Mx	-.002	.5
94	MP2C	X	0	4.5
95	MP2C	Z	-4.619	4.5
96	MP2C	Mx	-.002	4.5
97	M57	X	0	1
98	M57	Z	-8.42	1
99	M57	Mx	0	1
100	MP2B	X	0	.5
101	MP2B	Z	-6.066	.5
102	MP2B	Mx	.002	.5
103	MP2B	X	0	4.5
104	MP2B	Z	-6.066	4.5
105	MP2B	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	4.488	.25
2	MP4A	Z	-7.773	.25
3	MP4A	Mx	.005	.25
4	MP4A	X	4.488	4.75
5	MP4A	Z	-7.773	4.75
6	MP4A	Mx	.005	4.75
7	MP4B	X	3.347	.25
8	MP4B	Z	-5.797	.25
9	MP4B	Mx	.000946	.25
10	MP4B	X	3.347	4.75
11	MP4B	Z	-5.797	4.75
12	MP4B	Mx	.000946	4.75
13	MP4C	X	3.347	.25
14	MP4C	Z	-5.797	.25
15	MP4C	Mx	-.005	.25
16	MP4C	X	3.347	4.75
17	MP4C	Z	-5.797	4.75
18	MP4C	Mx	-.005	4.75
19	MP4A	X	4.471	.25
20	MP4A	Z	-7.744	.25



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP4A	Mx	-0.005	.25
22	MP4A	X	4.471	4.75
23	MP4A	Z	-7.744	4.75
24	MP4A	Mx	-0.005	4.75
25	MP4B	X	3.343	.25
26	MP4B	Z	-5.79	.25
27	MP4B	Mx	.005	.25
28	MP4B	X	3.343	4.75
29	MP4B	Z	-5.79	4.75
30	MP4B	Mx	.005	4.75
31	MP4C	X	3.343	.25
32	MP4C	Z	-5.79	.25
33	MP4C	Mx	-.000945	.25
34	MP4C	X	3.343	4.75
35	MP4C	Z	-5.79	4.75
36	MP4C	Mx	-.000945	4.75
37	MP5A	X	2.611	1.5
38	MP5A	Z	-4.522	1.5
39	MP5A	Mx	0	1.5
40	MP5A	X	2.611	3.5
41	MP5A	Z	-4.522	3.5
42	MP5A	Mx	0	3.5
43	MP5B	X	1.419	1.5
44	MP5B	Z	-2.458	1.5
45	MP5B	Mx	.001	1.5
46	MP5B	X	1.419	3.5
47	MP5B	Z	-2.458	3.5
48	MP5B	Mx	.001	3.5
49	MP5C	X	1.419	1.5
50	MP5C	Z	-2.458	1.5
51	MP5C	Mx	-.001	1.5
52	MP5C	X	1.419	3.5
53	MP5C	Z	-2.458	3.5
54	MP5C	Mx	-.001	3.5
55	M55	X	3.854	1
56	M55	Z	-6.676	1
57	M55	Mx	0	1
58	MP4A	X	1.111	.5
59	MP4A	Z	-1.924	.5
60	MP4A	Mx	0	.5
61	MP4B	X	.695	.5
62	MP4B	Z	-1.204	.5
63	MP4B	Mx	-.000602	.5
64	MP4C	X	.695	.5
65	MP4C	Z	-1.204	.5
66	MP4C	Mx	.000602	.5
67	MP3A	X	2.077	2.5
68	MP3A	Z	-3.598	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	1.561	2.5
71	MP3B	Z	-2.703	2.5
72	MP3B	Mx	-.001	2.5
73	MP3C	X	1.561	2.5
74	MP3C	Z	-2.703	2.5
75	MP3C	Mx	.001	2.5
76	MP4A	X	2.077	2.5
77	MP4A	Z	-3.598	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP4A	Mx	0	2.5
79	MP4B	X	1.467	2.5
80	MP4B	Z	-2.541	2.5
81	MP4B	Mx	-.001	2.5
82	MP4C	X	1.467	2.5
83	MP4C	Z	-2.541	2.5
84	MP4C	Mx	.001	2.5
85	MP2A	X	4.205	.5
86	MP2A	Z	-7.283	.5
87	MP2A	Mx	0	.5
88	MP2A	X	4.205	4.5
89	MP2A	Z	-7.283	4.5
90	MP2A	Mx	0	4.5
91	MP2C	X	2.783	.5
92	MP2C	Z	-4.821	.5
93	MP2C	Mx	-.002	.5
94	MP2C	X	2.783	4.5
95	MP2C	Z	-4.821	4.5
96	MP2C	Mx	-.002	4.5
97	M57	X	3.854	1
98	M57	Z	-6.676	1
99	M57	Mx	0	1
100	MP2B	X	2.7	.5
101	MP2B	Z	-4.676	.5
102	MP2B	Mx	.002	.5
103	MP2B	X	2.7	4.5
104	MP2B	Z	-4.676	4.5
105	MP2B	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	7.115	.25
2	MP4A	Z	-4.108	.25
3	MP4A	Mx	.002	.25
4	MP4A	X	7.115	4.75
5	MP4A	Z	-4.108	4.75
6	MP4A	Mx	.002	4.75
7	MP4B	X	5.139	.25
8	MP4B	Z	-2.967	.25
9	MP4B	Mx	.003	.25
10	MP4B	X	5.139	4.75
11	MP4B	Z	-2.967	4.75
12	MP4B	Mx	.003	4.75
13	MP4C	X	7.115	.25
14	MP4C	Z	-4.108	.25
15	MP4C	Mx	-.006	.25
16	MP4C	X	7.115	4.75
17	MP4C	Z	-4.108	4.75
18	MP4C	Mx	-.006	4.75
19	MP4A	X	7.093	.25
20	MP4A	Z	-4.095	.25
21	MP4A	Mx	-.006	.25
22	MP4A	X	7.093	4.75
23	MP4A	Z	-4.095	4.75
24	MP4A	Mx	-.006	4.75
25	MP4B	X	5.139	.25



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
26	MP4B	Z	-2.967	.25
27	MP4B	Mx	.003	.25
28	MP4B	X	5.139	4.75
29	MP4B	Z	-2.967	4.75
30	MP4B	Mx	.003	4.75
31	MP4C	X	7.093	.25
32	MP4C	Z	-4.095	.25
33	MP4C	Mx	.002	.25
34	MP4C	X	7.093	4.75
35	MP4C	Z	-4.095	4.75
36	MP4C	Mx	.002	4.75
37	MP5A	X	3.834	1.5
38	MP5A	Z	-2.213	1.5
39	MP5A	Mx	-.001	1.5
40	MP5A	X	3.834	3.5
41	MP5A	Z	-2.213	3.5
42	MP5A	Mx	-.001	3.5
43	MP5B	X	1.77	1.5
44	MP5B	Z	-1.022	1.5
45	MP5B	Mx	.001	1.5
46	MP5B	X	1.77	3.5
47	MP5B	Z	-1.022	3.5
48	MP5B	Mx	.001	3.5
49	MP5C	X	3.834	1.5
50	MP5C	Z	-2.213	1.5
51	MP5C	Mx	-.001	1.5
52	MP5C	X	3.834	3.5
53	MP5C	Z	-2.213	3.5
54	MP5C	Mx	-.001	3.5
55	M55	X	5.443	1
56	M55	Z	-3.143	1
57	M55	Mx	0	1
58	MP4A	X	1.684	.5
59	MP4A	Z	-.972	.5
60	MP4A	Mx	.000486	.5
61	MP4B	X	.964	.5
62	MP4B	Z	-.557	.5
63	MP4B	Mx	-.000557	.5
64	MP4C	X	1.684	.5
65	MP4C	Z	-.972	.5
66	MP4C	Mx	.000486	.5
67	MP3A	X	3.3	2.5
68	MP3A	Z	-1.905	2.5
69	MP3A	Mx	.000953	2.5
70	MP3B	X	2.405	2.5
71	MP3B	Z	-1.389	2.5
72	MP3B	Mx	-.001	2.5
73	MP3C	X	3.3	2.5
74	MP3C	Z	-1.905	2.5
75	MP3C	Mx	.000952	2.5
76	MP4A	X	3.246	2.5
77	MP4A	Z	-1.874	2.5
78	MP4A	Mx	.000937	2.5
79	MP4B	X	2.189	2.5
80	MP4B	Z	-1.264	2.5
81	MP4B	Mx	-.001	2.5
82	MP4C	X	3.246	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP4C	Z	-1.874	2.5
84	MP4C	Mx	.000937	2.5
85	MP2A	X	6.462	.5
86	MP2A	Z	-3.731	.5
87	MP2A	Mx	-.002	.5
88	MP2A	X	6.462	4.5
89	MP2A	Z	-3.731	4.5
90	MP2A	Mx	-.002	4.5
91	MP2C	X	6.462	.5
92	MP2C	Z	-3.731	.5
93	MP2C	Mx	-.002	.5
94	MP2C	X	6.462	4.5
95	MP2C	Z	-3.731	4.5
96	MP2C	Mx	-.002	4.5
97	M57	X	5.443	1
98	M57	Z	-3.143	1
99	M57	Mx	0	1
100	MP2B	X	4.388	.5
101	MP2B	Z	-2.533	.5
102	MP2B	Mx	.003	.5
103	MP2B	X	4.388	4.5
104	MP2B	Z	-2.533	4.5
105	MP2B	Mx	.003	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	6.694	.25
2	MP4A	Z	0	.25
3	MP4A	Mx	-.000946	.25
4	MP4A	X	6.694	4.75
5	MP4A	Z	0	4.75
6	MP4A	Mx	-.000946	4.75
7	MP4B	X	6.694	.25
8	MP4B	Z	0	.25
9	MP4B	Mx	.005	.25
10	MP4B	X	6.694	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	.005	4.75
13	MP4C	X	8.976	.25
14	MP4C	Z	0	.25
15	MP4C	Mx	-.005	.25
16	MP4C	X	8.976	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	-.005	4.75
19	MP4A	X	6.686	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	-.005	.25
22	MP4A	X	6.686	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	-.005	4.75
25	MP4B	X	6.686	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	.000945	.25
28	MP4B	X	6.686	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	.000945	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP4C	X	8.942	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	.005	.25
34	MP4C	X	8.942	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	.005	4.75
37	MP5A	X	2.838	1.5
38	MP5A	Z	0	1.5
39	MP5A	Mx	-.001	1.5
40	MP5A	X	2.838	3.5
41	MP5A	Z	0	3.5
42	MP5A	Mx	-.001	3.5
43	MP5B	X	2.838	1.5
44	MP5B	Z	0	1.5
45	MP5B	Mx	.001	1.5
46	MP5B	X	2.838	3.5
47	MP5B	Z	0	3.5
48	MP5B	Mx	.001	3.5
49	MP5C	X	5.221	1.5
50	MP5C	Z	0	1.5
51	MP5C	Mx	0	1.5
52	MP5C	X	5.221	3.5
53	MP5C	Z	0	3.5
54	MP5C	Mx	0	3.5
55	M55	X	5.574	1
56	M55	Z	0	1
57	M55	Mx	0	1
58	MP4A	X	1.39	.5
59	MP4A	Z	0	.5
60	MP4A	Mx	.000602	.5
61	MP4B	X	1.39	.5
62	MP4B	Z	0	.5
63	MP4B	Mx	-.000602	.5
64	MP4C	X	2.222	.5
65	MP4C	Z	0	.5
66	MP4C	Mx	0	.5
67	MP3A	X	3.122	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	.001	2.5
70	MP3B	X	3.122	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	-.001	2.5
73	MP3C	X	4.155	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	0	2.5
76	MP4A	X	2.934	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	.001	2.5
79	MP4B	X	2.934	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	-.001	2.5
82	MP4C	X	4.155	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	0	2.5
85	MP2A	X	5.567	.5
86	MP2A	Z	0	.5
87	MP2A	Mx	-.002	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP2A	X	5.567	4.5
89	MP2A	Z	0	4.5
90	MP2A	Mx	-.002	4.5
91	MP2C	X	8.409	.5
92	MP2C	Z	0	.5
93	MP2C	Mx	0	.5
94	MP2C	X	8.409	4.5
95	MP2C	Z	0	4.5
96	MP2C	Mx	0	4.5
97	M57	X	5.574	1
98	M57	Z	0	1
99	M57	Mx	0	1
100	MP2B	X	5.399	.5
101	MP2B	Z	0	.5
102	MP2B	Mx	.002	.5
103	MP2B	X	5.399	4.5
104	MP2B	Z	0	4.5
105	MP2B	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	5.139	.25
2	MP4A	Z	2.967	.25
3	MP4A	Mx	-.003	.25
4	MP4A	X	5.139	4.75
5	MP4A	Z	2.967	4.75
6	MP4A	Mx	-.003	4.75
7	MP4B	X	7.115	.25
8	MP4B	Z	4.108	.25
9	MP4B	Mx	.006	.25
10	MP4B	X	7.115	4.75
11	MP4B	Z	4.108	4.75
12	MP4B	Mx	.006	4.75
13	MP4C	X	7.115	.25
14	MP4C	Z	4.108	.25
15	MP4C	Mx	-.002	.25
16	MP4C	X	7.115	4.75
17	MP4C	Z	4.108	4.75
18	MP4C	Mx	-.002	4.75
19	MP4A	X	5.139	.25
20	MP4A	Z	2.967	.25
21	MP4A	Mx	-.003	.25
22	MP4A	X	5.139	4.75
23	MP4A	Z	2.967	4.75
24	MP4A	Mx	-.003	4.75
25	MP4B	X	7.093	.25
26	MP4B	Z	4.095	.25
27	MP4B	Mx	-.002	.25
28	MP4B	X	7.093	4.75
29	MP4B	Z	4.095	4.75
30	MP4B	Mx	-.002	4.75
31	MP4C	X	7.093	.25
32	MP4C	Z	4.095	.25
33	MP4C	Mx	.006	.25
34	MP4C	X	7.093	4.75
35	MP4C	Z	4.095	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	MP4C	Mx	.006	4.75
37	MP5A	X	1.77	1.5
38	MP5A	Z	1.022	1.5
39	MP5A	Mx	-.001	1.5
40	MP5A	X	1.77	3.5
41	MP5A	Z	1.022	3.5
42	MP5A	Mx	-.001	3.5
43	MP5B	X	3.834	1.5
44	MP5B	Z	2.213	1.5
45	MP5B	Mx	.001	1.5
46	MP5B	X	3.834	3.5
47	MP5B	Z	2.213	3.5
48	MP5B	Mx	.001	3.5
49	MP5C	X	3.834	1.5
50	MP5C	Z	2.213	1.5
51	MP5C	Mx	.001	1.5
52	MP5C	X	3.834	3.5
53	MP5C	Z	2.213	3.5
54	MP5C	Mx	.001	3.5
55	M55	X	5.443	1
56	M55	Z	3.143	1
57	M55	Mx	0	1
58	MP4A	X	.964	.5
59	MP4A	Z	.557	.5
60	MP4A	Mx	.000557	.5
61	MP4B	X	1.684	.5
62	MP4B	Z	.972	.5
63	MP4B	Mx	-.000486	.5
64	MP4C	X	1.684	.5
65	MP4C	Z	.972	.5
66	MP4C	Mx	-.000486	.5
67	MP3A	X	2.405	2.5
68	MP3A	Z	1.389	2.5
69	MP3A	Mx	.001	2.5
70	MP3B	X	3.3	2.5
71	MP3B	Z	1.905	2.5
72	MP3B	Mx	-.000953	2.5
73	MP3C	X	3.3	2.5
74	MP3C	Z	1.905	2.5
75	MP3C	Mx	-.000952	2.5
76	MP4A	X	2.189	2.5
77	MP4A	Z	1.264	2.5
78	MP4A	Mx	.001	2.5
79	MP4B	X	3.246	2.5
80	MP4B	Z	1.874	2.5
81	MP4B	Mx	-.000937	2.5
82	MP4C	X	3.246	2.5
83	MP4C	Z	1.874	2.5
84	MP4C	Mx	-.000937	2.5
85	MP2A	X	4	.5
86	MP2A	Z	2.31	.5
87	MP2A	Mx	-.002	.5
88	MP2A	X	4	4.5
89	MP2A	Z	2.31	4.5
90	MP2A	Mx	-.002	4.5
91	MP2C	X	6.462	.5
92	MP2C	Z	3.731	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP2C	Mx	.002	.5
94	MP2C	X	6.462	4.5
95	MP2C	Z	3.731	4.5
96	MP2C	Mx	.002	4.5
97	M57	X	5.443	1
98	M57	Z	3.143	1
99	M57	Mx	0	1
100	MP2B	X	5.253	.5
101	MP2B	Z	3.033	.5
102	MP2B	Mx	.002	.5
103	MP2B	X	5.253	4.5
104	MP2B	Z	3.033	4.5
105	MP2B	Mx	.002	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	3.347	.25
2	MP4A	Z	5.797	.25
3	MP4A	Mx	-.005	.25
4	MP4A	X	3.347	4.75
5	MP4A	Z	5.797	4.75
6	MP4A	Mx	-.005	4.75
7	MP4B	X	4.488	.25
8	MP4B	Z	7.773	.25
9	MP4B	Mx	.005	.25
10	MP4B	X	4.488	4.75
11	MP4B	Z	7.773	4.75
12	MP4B	Mx	.005	4.75
13	MP4C	X	3.347	.25
14	MP4C	Z	5.797	.25
15	MP4C	Mx	.000946	.25
16	MP4C	X	3.347	4.75
17	MP4C	Z	5.797	4.75
18	MP4C	Mx	.000946	4.75
19	MP4A	X	3.343	.25
20	MP4A	Z	5.79	.25
21	MP4A	Mx	-.000945	.25
22	MP4A	X	3.343	4.75
23	MP4A	Z	5.79	4.75
24	MP4A	Mx	-.000945	4.75
25	MP4B	X	4.471	.25
26	MP4B	Z	7.744	.25
27	MP4B	Mx	-.005	.25
28	MP4B	X	4.471	4.75
29	MP4B	Z	7.744	4.75
30	MP4B	Mx	-.005	4.75
31	MP4C	X	3.343	.25
32	MP4C	Z	5.79	.25
33	MP4C	Mx	.005	.25
34	MP4C	X	3.343	4.75
35	MP4C	Z	5.79	4.75
36	MP4C	Mx	.005	4.75
37	MP5A	X	1.419	1.5
38	MP5A	Z	2.458	1.5
39	MP5A	Mx	-.001	1.5
40	MP5A	X	1.419	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
41	MP5A	Z	2.458	3.5
42	MP5A	Mx	-.001	3.5
43	MP5B	X	2.611	1.5
44	MP5B	Z	4.522	1.5
45	MP5B	Mx	0	1.5
46	MP5B	X	2.611	3.5
47	MP5B	Z	4.522	3.5
48	MP5B	Mx	0	3.5
49	MP5C	X	1.419	1.5
50	MP5C	Z	2.458	1.5
51	MP5C	Mx	.001	1.5
52	MP5C	X	1.419	3.5
53	MP5C	Z	2.458	3.5
54	MP5C	Mx	.001	3.5
55	M55	X	3.854	1
56	M55	Z	6.676	1
57	M55	Mx	0	1
58	MP4A	X	.695	.5
59	MP4A	Z	1.204	.5
60	MP4A	Mx	.000602	.5
61	MP4B	X	1.111	.5
62	MP4B	Z	1.924	.5
63	MP4B	Mx	0	.5
64	MP4C	X	.695	.5
65	MP4C	Z	1.204	.5
66	MP4C	Mx	-.000602	.5
67	MP3A	X	1.561	2.5
68	MP3A	Z	2.703	2.5
69	MP3A	Mx	.001	2.5
70	MP3B	X	2.077	2.5
71	MP3B	Z	3.598	2.5
72	MP3B	Mx	0	2.5
73	MP3C	X	1.561	2.5
74	MP3C	Z	2.703	2.5
75	MP3C	Mx	-.001	2.5
76	MP4A	X	1.467	2.5
77	MP4A	Z	2.541	2.5
78	MP4A	Mx	.001	2.5
79	MP4B	X	2.077	2.5
80	MP4B	Z	3.598	2.5
81	MP4B	Mx	0	2.5
82	MP4C	X	1.467	2.5
83	MP4C	Z	2.541	2.5
84	MP4C	Mx	-.001	2.5
85	MP2A	X	2.783	.5
86	MP2A	Z	4.821	.5
87	MP2A	Mx	-.002	.5
88	MP2A	X	2.783	4.5
89	MP2A	Z	4.821	4.5
90	MP2A	Mx	-.002	4.5
91	MP2C	X	2.783	.5
92	MP2C	Z	4.821	.5
93	MP2C	Mx	.002	.5
94	MP2C	X	2.783	4.5
95	MP2C	Z	4.821	4.5
96	MP2C	Mx	.002	4.5
97	M57	X	3.854	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
98	M57	Z	6.676	1
99	M57	Mx	0	1
100	MP2B	X	3.199	.5
101	MP2B	Z	5.541	.5
102	MP2B	Mx	0	.5
103	MP2B	X	3.199	4.5
104	MP2B	Z	5.541	4.5
105	MP2B	Mx	0	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	0	.25
2	MP4A	Z	8.215	.25
3	MP4A	Mx	-.006	.25
4	MP4A	X	0	4.75
5	MP4A	Z	8.215	4.75
6	MP4A	Mx	-.006	4.75
7	MP4B	X	0	.25
8	MP4B	Z	8.215	.25
9	MP4B	Mx	.002	.25
10	MP4B	X	0	4.75
11	MP4B	Z	8.215	4.75
12	MP4B	Mx	.002	4.75
13	MP4C	X	0	.25
14	MP4C	Z	5.934	.25
15	MP4C	Mx	.003	.25
16	MP4C	X	0	4.75
17	MP4C	Z	5.934	4.75
18	MP4C	Mx	.003	4.75
19	MP4A	X	0	.25
20	MP4A	Z	8.19	.25
21	MP4A	Mx	.002	.25
22	MP4A	X	0	4.75
23	MP4A	Z	8.19	4.75
24	MP4A	Mx	.002	4.75
25	MP4B	X	0	.25
26	MP4B	Z	8.19	.25
27	MP4B	Mx	-.006	.25
28	MP4B	X	0	4.75
29	MP4B	Z	8.19	4.75
30	MP4B	Mx	-.006	4.75
31	MP4C	X	0	.25
32	MP4C	Z	5.934	.25
33	MP4C	Mx	.003	.25
34	MP4C	X	0	4.75
35	MP4C	Z	5.934	4.75
36	MP4C	Mx	.003	4.75
37	MP5A	X	0	1.5
38	MP5A	Z	4.427	1.5
39	MP5A	Mx	-.001	1.5
40	MP5A	X	0	3.5
41	MP5A	Z	4.427	3.5
42	MP5A	Mx	-.001	3.5
43	MP5B	X	0	1.5
44	MP5B	Z	4.427	1.5
45	MP5B	Mx	-.001	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP5B	X	0	3.5
47	MP5B	Z	4.427	3.5
48	MP5B	Mx	-.001	3.5
49	MP5C	X	0	1.5
50	MP5C	Z	2.044	1.5
51	MP5C	Mx	.001	1.5
52	MP5C	X	0	3.5
53	MP5C	Z	2.044	3.5
54	MP5C	Mx	.001	3.5
55	M55	X	0	1
56	M55	Z	8.42	1
57	M55	Mx	0	1
58	MP4A	X	0	.5
59	MP4A	Z	1.945	.5
60	MP4A	Mx	.000486	.5
61	MP4B	X	0	.5
62	MP4B	Z	1.945	.5
63	MP4B	Mx	.000486	.5
64	MP4C	X	0	.5
65	MP4C	Z	1.113	.5
66	MP4C	Mx	-.000556	.5
67	MP3A	X	0	2.5
68	MP3A	Z	3.81	2.5
69	MP3A	Mx	.000952	2.5
70	MP3B	X	0	2.5
71	MP3B	Z	3.81	2.5
72	MP3B	Mx	.000952	2.5
73	MP3C	X	0	2.5
74	MP3C	Z	2.777	2.5
75	MP3C	Mx	-.001	2.5
76	MP4A	X	0	2.5
77	MP4A	Z	3.748	2.5
78	MP4A	Mx	.000937	2.5
79	MP4B	X	0	2.5
80	MP4B	Z	3.748	2.5
81	MP4B	Mx	.000937	2.5
82	MP4C	X	0	2.5
83	MP4C	Z	2.527	2.5
84	MP4C	Mx	-.001	2.5
85	MP2A	X	0	.5
86	MP2A	Z	7.462	.5
87	MP2A	Mx	-.002	.5
88	MP2A	X	0	4.5
89	MP2A	Z	7.462	4.5
90	MP2A	Mx	-.002	4.5
91	MP2C	X	0	.5
92	MP2C	Z	4.619	.5
93	MP2C	Mx	.002	.5
94	MP2C	X	0	4.5
95	MP2C	Z	4.619	4.5
96	MP2C	Mx	.002	4.5
97	M57	X	0	1
98	M57	Z	8.42	1
99	M57	Mx	0	1
100	MP2B	X	0	.5
101	MP2B	Z	6.066	.5
102	MP2B	Mx	-.002	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	MP2B	X	0	4.5
104	MP2B	Z	6.066	4.5
105	MP2B	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-4.488	.25
2	MP4A	Z	7.773	.25
3	MP4A	Mx	-.005	.25
4	MP4A	X	-4.488	4.75
5	MP4A	Z	7.773	4.75
6	MP4A	Mx	-.005	4.75
7	MP4B	X	-3.347	.25
8	MP4B	Z	5.797	.25
9	MP4B	Mx	-.000946	.25
10	MP4B	X	-3.347	4.75
11	MP4B	Z	5.797	4.75
12	MP4B	Mx	-.000946	4.75
13	MP4C	X	-3.347	.25
14	MP4C	Z	5.797	.25
15	MP4C	Mx	.005	.25
16	MP4C	X	-3.347	4.75
17	MP4C	Z	5.797	4.75
18	MP4C	Mx	.005	4.75
19	MP4A	X	-4.471	.25
20	MP4A	Z	7.744	.25
21	MP4A	Mx	.005	.25
22	MP4A	X	-4.471	4.75
23	MP4A	Z	7.744	4.75
24	MP4A	Mx	.005	4.75
25	MP4B	X	-3.343	.25
26	MP4B	Z	5.79	.25
27	MP4B	Mx	-.005	.25
28	MP4B	X	-3.343	4.75
29	MP4B	Z	5.79	4.75
30	MP4B	Mx	-.005	4.75
31	MP4C	X	-3.343	.25
32	MP4C	Z	5.79	.25
33	MP4C	Mx	.000945	.25
34	MP4C	X	-3.343	4.75
35	MP4C	Z	5.79	4.75
36	MP4C	Mx	.000945	4.75
37	MP5A	X	-2.611	1.5
38	MP5A	Z	4.522	1.5
39	MP5A	Mx	0	1.5
40	MP5A	X	-2.611	3.5
41	MP5A	Z	4.522	3.5
42	MP5A	Mx	0	3.5
43	MP5B	X	-1.419	1.5
44	MP5B	Z	2.458	1.5
45	MP5B	Mx	-.001	1.5
46	MP5B	X	-1.419	3.5
47	MP5B	Z	2.458	3.5
48	MP5B	Mx	-.001	3.5
49	MP5C	X	-1.419	1.5
50	MP5C	Z	2.458	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP5C	Mx	.001	1.5
52	MP5C	X	-1.419	3.5
53	MP5C	Z	2.458	3.5
54	MP5C	Mx	.001	3.5
55	M55	X	-3.854	1
56	M55	Z	6.676	1
57	M55	Mx	0	1
58	MP4A	X	-1.111	.5
59	MP4A	Z	1.924	.5
60	MP4A	Mx	0	.5
61	MP4B	X	-.695	.5
62	MP4B	Z	1.204	.5
63	MP4B	Mx	.000602	.5
64	MP4C	X	-.695	.5
65	MP4C	Z	1.204	.5
66	MP4C	Mx	-.000602	.5
67	MP3A	X	-2.077	2.5
68	MP3A	Z	3.598	2.5
69	MP3A	Mx	0	2.5
70	MP3B	X	-1.561	2.5
71	MP3B	Z	2.703	2.5
72	MP3B	Mx	.001	2.5
73	MP3C	X	-1.561	2.5
74	MP3C	Z	2.703	2.5
75	MP3C	Mx	-.001	2.5
76	MP4A	X	-2.077	2.5
77	MP4A	Z	3.598	2.5
78	MP4A	Mx	0	2.5
79	MP4B	X	-1.467	2.5
80	MP4B	Z	2.541	2.5
81	MP4B	Mx	.001	2.5
82	MP4C	X	-1.467	2.5
83	MP4C	Z	2.541	2.5
84	MP4C	Mx	-.001	2.5
85	MP2A	X	-4.205	.5
86	MP2A	Z	7.283	.5
87	MP2A	Mx	0	.5
88	MP2A	X	-4.205	4.5
89	MP2A	Z	7.283	4.5
90	MP2A	Mx	0	4.5
91	MP2C	X	-2.783	.5
92	MP2C	Z	4.821	.5
93	MP2C	Mx	.002	.5
94	MP2C	X	-2.783	4.5
95	MP2C	Z	4.821	4.5
96	MP2C	Mx	.002	4.5
97	M57	X	-3.854	1
98	M57	Z	6.676	1
99	M57	Mx	0	1
100	MP2B	X	-2.7	.5
101	MP2B	Z	4.676	.5
102	MP2B	Mx	-.002	.5
103	MP2B	X	-2.7	4.5
104	MP2B	Z	4.676	4.5
105	MP2B	Mx	-.002	4.5



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

Oct 7, 2021
 9:33 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP4A	X	-7.115	.25
2	MP4A	Z	4.108	.25
3	MP4A	Mx	-.002	.25
4	MP4A	X	-7.115	4.75
5	MP4A	Z	4.108	4.75
6	MP4A	Mx	-.002	4.75
7	MP4B	X	-5.139	.25
8	MP4B	Z	2.967	.25
9	MP4B	Mx	-.003	.25
10	MP4B	X	-5.139	4.75
11	MP4B	Z	2.967	4.75
12	MP4B	Mx	-.003	4.75
13	MP4C	X	-7.115	.25
14	MP4C	Z	4.108	.25
15	MP4C	Mx	.006	.25
16	MP4C	X	-7.115	4.75
17	MP4C	Z	4.108	4.75
18	MP4C	Mx	.006	4.75
19	MP4A	X	-7.093	.25
20	MP4A	Z	4.095	.25
21	MP4A	Mx	.006	.25
22	MP4A	X	-7.093	4.75
23	MP4A	Z	4.095	4.75
24	MP4A	Mx	.006	4.75
25	MP4B	X	-5.139	.25
26	MP4B	Z	2.967	.25
27	MP4B	Mx	-.003	.25
28	MP4B	X	-5.139	4.75
29	MP4B	Z	2.967	4.75
30	MP4B	Mx	-.003	4.75
31	MP4C	X	-7.093	.25
32	MP4C	Z	4.095	.25
33	MP4C	Mx	-.002	.25
34	MP4C	X	-7.093	4.75
35	MP4C	Z	4.095	4.75
36	MP4C	Mx	-.002	4.75
37	MP5A	X	-3.834	1.5
38	MP5A	Z	2.213	1.5
39	MP5A	Mx	.001	1.5
40	MP5A	X	-3.834	3.5
41	MP5A	Z	2.213	3.5
42	MP5A	Mx	.001	3.5
43	MP5B	X	-1.77	1.5
44	MP5B	Z	1.022	1.5
45	MP5B	Mx	-.001	1.5
46	MP5B	X	-1.77	3.5
47	MP5B	Z	1.022	3.5
48	MP5B	Mx	-.001	3.5
49	MP5C	X	-3.834	1.5
50	MP5C	Z	2.213	1.5
51	MP5C	Mx	.001	1.5
52	MP5C	X	-3.834	3.5
53	MP5C	Z	2.213	3.5
54	MP5C	Mx	.001	3.5
55	M55	X	-5.443	1
56	M55	Z	3.143	1
57	M55	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP4A	X	-1.684	.5
59	MP4A	Z	.972	.5
60	MP4A	Mx	-.000486	.5
61	MP4B	X	-.964	.5
62	MP4B	Z	.557	.5
63	MP4B	Mx	.000557	.5
64	MP4C	X	-1.684	.5
65	MP4C	Z	.972	.5
66	MP4C	Mx	-.000486	.5
67	MP3A	X	-3.3	2.5
68	MP3A	Z	1.905	2.5
69	MP3A	Mx	-.000953	2.5
70	MP3B	X	-2.405	2.5
71	MP3B	Z	1.389	2.5
72	MP3B	Mx	.001	2.5
73	MP3C	X	-3.3	2.5
74	MP3C	Z	1.905	2.5
75	MP3C	Mx	-.000952	2.5
76	MP4A	X	-3.246	2.5
77	MP4A	Z	1.874	2.5
78	MP4A	Mx	-.000937	2.5
79	MP4B	X	-2.189	2.5
80	MP4B	Z	1.264	2.5
81	MP4B	Mx	.001	2.5
82	MP4C	X	-3.246	2.5
83	MP4C	Z	1.874	2.5
84	MP4C	Mx	-.000937	2.5
85	MP2A	X	-6.462	.5
86	MP2A	Z	3.731	.5
87	MP2A	Mx	.002	.5
88	MP2A	X	-6.462	4.5
89	MP2A	Z	3.731	4.5
90	MP2A	Mx	.002	4.5
91	MP2C	X	-6.462	.5
92	MP2C	Z	3.731	.5
93	MP2C	Mx	.002	.5
94	MP2C	X	-6.462	4.5
95	MP2C	Z	3.731	4.5
96	MP2C	Mx	.002	4.5
97	M57	X	-5.443	1
98	M57	Z	3.143	1
99	M57	Mx	0	1
100	MP2B	X	-4.388	.5
101	MP2B	Z	2.533	.5
102	MP2B	Mx	-.003	.5
103	MP2B	X	-4.388	4.5
104	MP2B	Z	2.533	4.5
105	MP2B	Mx	-.003	4.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP4A	X	-6.694	.25
2	MP4A	Z	0	.25
3	MP4A	Mx	.000946	.25
4	MP4A	X	-6.694	4.75
5	MP4A	Z	0	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
6	MP4A	Mx	.000946	4.75
7	MP4B	X	-6.694	.25
8	MP4B	Z	0	.25
9	MP4B	Mx	-.005	.25
10	MP4B	X	-6.694	4.75
11	MP4B	Z	0	4.75
12	MP4B	Mx	-.005	4.75
13	MP4C	X	-8.976	.25
14	MP4C	Z	0	.25
15	MP4C	Mx	.005	.25
16	MP4C	X	-8.976	4.75
17	MP4C	Z	0	4.75
18	MP4C	Mx	.005	4.75
19	MP4A	X	-6.686	.25
20	MP4A	Z	0	.25
21	MP4A	Mx	.005	.25
22	MP4A	X	-6.686	4.75
23	MP4A	Z	0	4.75
24	MP4A	Mx	.005	4.75
25	MP4B	X	-6.686	.25
26	MP4B	Z	0	.25
27	MP4B	Mx	-.000945	.25
28	MP4B	X	-6.686	4.75
29	MP4B	Z	0	4.75
30	MP4B	Mx	-.000945	4.75
31	MP4C	X	-8.942	.25
32	MP4C	Z	0	.25
33	MP4C	Mx	-.005	.25
34	MP4C	X	-8.942	4.75
35	MP4C	Z	0	4.75
36	MP4C	Mx	-.005	4.75
37	MP5A	X	-2.838	1.5
38	MP5A	Z	0	1.5
39	MP5A	Mx	.001	1.5
40	MP5A	X	-2.838	3.5
41	MP5A	Z	0	3.5
42	MP5A	Mx	.001	3.5
43	MP5B	X	-2.838	1.5
44	MP5B	Z	0	1.5
45	MP5B	Mx	-.001	1.5
46	MP5B	X	-2.838	3.5
47	MP5B	Z	0	3.5
48	MP5B	Mx	-.001	3.5
49	MP5C	X	-5.221	1.5
50	MP5C	Z	0	1.5
51	MP5C	Mx	0	1.5
52	MP5C	X	-5.221	3.5
53	MP5C	Z	0	3.5
54	MP5C	Mx	0	3.5
55	M55	X	-5.574	1
56	M55	Z	0	1
57	M55	Mx	0	1
58	MP4A	X	-1.39	.5
59	MP4A	Z	0	.5
60	MP4A	Mx	-.000602	.5
61	MP4B	X	-1.39	.5
62	MP4B	Z	0	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP4B	Mx	.000602	.5
64	MP4C	X	-2.222	.5
65	MP4C	Z	0	.5
66	MP4C	Mx	0	.5
67	MP3A	X	-3.122	2.5
68	MP3A	Z	0	2.5
69	MP3A	Mx	-.001	2.5
70	MP3B	X	-3.122	2.5
71	MP3B	Z	0	2.5
72	MP3B	Mx	.001	2.5
73	MP3C	X	-4.155	2.5
74	MP3C	Z	0	2.5
75	MP3C	Mx	0	2.5
76	MP4A	X	-2.934	2.5
77	MP4A	Z	0	2.5
78	MP4A	Mx	-.001	2.5
79	MP4B	X	-2.934	2.5
80	MP4B	Z	0	2.5
81	MP4B	Mx	.001	2.5
82	MP4C	X	-4.155	2.5
83	MP4C	Z	0	2.5
84	MP4C	Mx	0	2.5
85	MP2A	X	-5.567	.5
86	MP2A	Z	0	.5
87	MP2A	Mx	.002	.5
88	MP2A	X	-5.567	4.5
89	MP2A	Z	0	4.5
90	MP2A	Mx	.002	4.5
91	MP2C	X	-8.409	.5
92	MP2C	Z	0	.5
93	MP2C	Mx	0	.5
94	MP2C	X	-8.409	4.5
95	MP2C	Z	0	4.5
96	MP2C	Mx	0	4.5
97	M57	X	-5.574	1
98	M57	Z	0	1
99	M57	Mx	0	1
100	MP2B	X	-5.399	.5
101	MP2B	Z	0	.5
102	MP2B	Mx	-.002	.5
103	MP2B	X	-5.399	4.5
104	MP2B	Z	0	4.5
105	MP2B	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-5.139	.25
2	MP4A	Z	-2.967	.25
3	MP4A	Mx	.003	.25
4	MP4A	X	-5.139	4.75
5	MP4A	Z	-2.967	4.75
6	MP4A	Mx	.003	4.75
7	MP4B	X	-7.115	.25
8	MP4B	Z	-4.108	.25
9	MP4B	Mx	-.006	.25
10	MP4B	X	-7.115	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP4B	Z	-4.108	4.75
12	MP4B	Mx	-.006	4.75
13	MP4C	X	-7.115	.25
14	MP4C	Z	-4.108	.25
15	MP4C	Mx	.002	.25
16	MP4C	X	-7.115	4.75
17	MP4C	Z	-4.108	4.75
18	MP4C	Mx	.002	4.75
19	MP4A	X	-5.139	.25
20	MP4A	Z	-2.967	.25
21	MP4A	Mx	.003	.25
22	MP4A	X	-5.139	4.75
23	MP4A	Z	-2.967	4.75
24	MP4A	Mx	.003	4.75
25	MP4B	X	-7.093	.25
26	MP4B	Z	-4.095	.25
27	MP4B	Mx	.002	.25
28	MP4B	X	-7.093	4.75
29	MP4B	Z	-4.095	4.75
30	MP4B	Mx	.002	4.75
31	MP4C	X	-7.093	.25
32	MP4C	Z	-4.095	.25
33	MP4C	Mx	-.006	.25
34	MP4C	X	-7.093	4.75
35	MP4C	Z	-4.095	4.75
36	MP4C	Mx	-.006	4.75
37	MP5A	X	-1.77	1.5
38	MP5A	Z	-1.022	1.5
39	MP5A	Mx	.001	1.5
40	MP5A	X	-1.77	3.5
41	MP5A	Z	-1.022	3.5
42	MP5A	Mx	.001	3.5
43	MP5B	X	-3.834	1.5
44	MP5B	Z	-2.213	1.5
45	MP5B	Mx	-.001	1.5
46	MP5B	X	-3.834	3.5
47	MP5B	Z	-2.213	3.5
48	MP5B	Mx	-.001	3.5
49	MP5C	X	-3.834	1.5
50	MP5C	Z	-2.213	1.5
51	MP5C	Mx	-.001	1.5
52	MP5C	X	-3.834	3.5
53	MP5C	Z	-2.213	3.5
54	MP5C	Mx	-.001	3.5
55	M55	X	-5.443	1
56	M55	Z	-3.143	1
57	M55	Mx	0	1
58	MP4A	X	-.964	.5
59	MP4A	Z	-.557	.5
60	MP4A	Mx	-.000557	.5
61	MP4B	X	-1.684	.5
62	MP4B	Z	-.972	.5
63	MP4B	Mx	.000486	.5
64	MP4C	X	-1.684	.5
65	MP4C	Z	-.972	.5
66	MP4C	Mx	.000486	.5
67	MP3A	X	-2.405	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP3A	Z	-1.389	2.5
69	MP3A	Mx	-.001	2.5
70	MP3B	X	-3.3	2.5
71	MP3B	Z	-1.905	2.5
72	MP3B	Mx	.000953	2.5
73	MP3C	X	-3.3	2.5
74	MP3C	Z	-1.905	2.5
75	MP3C	Mx	.000952	2.5
76	MP4A	X	-2.189	2.5
77	MP4A	Z	-1.264	2.5
78	MP4A	Mx	-.001	2.5
79	MP4B	X	-3.246	2.5
80	MP4B	Z	-1.874	2.5
81	MP4B	Mx	.000937	2.5
82	MP4C	X	-3.246	2.5
83	MP4C	Z	-1.874	2.5
84	MP4C	Mx	.000937	2.5
85	MP2A	X	-4	.5
86	MP2A	Z	-2.31	.5
87	MP2A	Mx	.002	.5
88	MP2A	X	-4	4.5
89	MP2A	Z	-2.31	4.5
90	MP2A	Mx	.002	4.5
91	MP2C	X	-6.462	.5
92	MP2C	Z	-3.731	.5
93	MP2C	Mx	-.002	.5
94	MP2C	X	-6.462	4.5
95	MP2C	Z	-3.731	4.5
96	MP2C	Mx	-.002	4.5
97	M57	X	-5.443	1
98	M57	Z	-3.143	1
99	M57	Mx	0	1
100	MP2B	X	-5.253	.5
101	MP2B	Z	-3.033	.5
102	MP2B	Mx	-.002	.5
103	MP2B	X	-5.253	4.5
104	MP2B	Z	-3.033	4.5
105	MP2B	Mx	-.002	4.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP4A	X	-3.347	.25
2	MP4A	Z	-5.797	.25
3	MP4A	Mx	.005	.25
4	MP4A	X	-3.347	4.75
5	MP4A	Z	-5.797	4.75
6	MP4A	Mx	.005	4.75
7	MP4B	X	-4.488	.25
8	MP4B	Z	-7.773	.25
9	MP4B	Mx	-.005	.25
10	MP4B	X	-4.488	4.75
11	MP4B	Z	-7.773	4.75
12	MP4B	Mx	-.005	4.75
13	MP4C	X	-3.347	.25
14	MP4C	Z	-5.797	.25
15	MP4C	Mx	-.000946	.25



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

Oct 7, 2021
 9:33 AM
 Checked By: _____

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP4C	X	-3.347	4.75
17	MP4C	Z	-5.797	4.75
18	MP4C	Mx	-.000946	4.75
19	MP4A	X	-3.343	.25
20	MP4A	Z	-5.79	.25
21	MP4A	Mx	.000945	.25
22	MP4A	X	-3.343	4.75
23	MP4A	Z	-5.79	4.75
24	MP4A	Mx	.000945	4.75
25	MP4B	X	-4.471	.25
26	MP4B	Z	-7.744	.25
27	MP4B	Mx	.005	.25
28	MP4B	X	-4.471	4.75
29	MP4B	Z	-7.744	4.75
30	MP4B	Mx	.005	4.75
31	MP4C	X	-3.343	.25
32	MP4C	Z	-5.79	.25
33	MP4C	Mx	-.005	.25
34	MP4C	X	-3.343	4.75
35	MP4C	Z	-5.79	4.75
36	MP4C	Mx	-.005	4.75
37	MP5A	X	-1.419	1.5
38	MP5A	Z	-2.458	1.5
39	MP5A	Mx	.001	1.5
40	MP5A	X	-1.419	3.5
41	MP5A	Z	-2.458	3.5
42	MP5A	Mx	.001	3.5
43	MP5B	X	-2.611	1.5
44	MP5B	Z	-4.522	1.5
45	MP5B	Mx	0	1.5
46	MP5B	X	-2.611	3.5
47	MP5B	Z	-4.522	3.5
48	MP5B	Mx	0	3.5
49	MP5C	X	-1.419	1.5
50	MP5C	Z	-2.458	1.5
51	MP5C	Mx	-.001	1.5
52	MP5C	X	-1.419	3.5
53	MP5C	Z	-2.458	3.5
54	MP5C	Mx	-.001	3.5
55	M55	X	-3.854	1
56	M55	Z	-6.676	1
57	M55	Mx	0	1
58	MP4A	X	-.695	.5
59	MP4A	Z	-1.204	.5
60	MP4A	Mx	-.000602	.5
61	MP4B	X	-1.111	.5
62	MP4B	Z	-1.924	.5
63	MP4B	Mx	0	.5
64	MP4C	X	-.695	.5
65	MP4C	Z	-1.204	.5
66	MP4C	Mx	.000602	.5
67	MP3A	X	-1.561	2.5
68	MP3A	Z	-2.703	2.5
69	MP3A	Mx	-.001	2.5
70	MP3B	X	-2.077	2.5
71	MP3B	Z	-3.598	2.5
72	MP3B	Mx	0	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
73	MP3C	X	-1.561	2.5
74	MP3C	Z	-2.703	2.5
75	MP3C	Mx	.001	2.5
76	MP4A	X	-1.467	2.5
77	MP4A	Z	-2.541	2.5
78	MP4A	Mx	-.001	2.5
79	MP4B	X	-2.077	2.5
80	MP4B	Z	-3.598	2.5
81	MP4B	Mx	0	2.5
82	MP4C	X	-1.467	2.5
83	MP4C	Z	-2.541	2.5
84	MP4C	Mx	.001	2.5
85	MP2A	X	-2.783	.5
86	MP2A	Z	-4.821	.5
87	MP2A	Mx	.002	.5
88	MP2A	X	-2.783	4.5
89	MP2A	Z	-4.821	4.5
90	MP2A	Mx	.002	4.5
91	MP2C	X	-2.783	.5
92	MP2C	Z	-4.821	.5
93	MP2C	Mx	-.002	.5
94	MP2C	X	-2.783	4.5
95	MP2C	Z	-4.821	4.5
96	MP2C	Mx	-.002	4.5
97	M57	X	-3.854	1
98	M57	Z	-6.676	1
99	M57	Mx	0	1
100	MP2B	X	-3.199	.5
101	MP2B	Z	-5.541	.5
102	MP2B	Mx	0	.5
103	MP2B	X	-3.199	4.5
104	MP2B	Z	-5.541	4.5
105	MP2B	Mx	0	4.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M21A	Y	-500	%2

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M21A	Y	-500	%25.92

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M21A	Y	-250	%100

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M21A	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	Y	-9.807	-9.807	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.%]
2	M4	Y	-8.9	-8.9	0	%100
3	M31A	Y	-8.9	-8.9	0	%100
4	M33	Y	-10.73	-10.73	0	%100
5	M8	Y	-9.807	-9.807	0	%100
6	M10	Y	-8.9	-8.9	0	%100
7	M12	Y	-8.9	-8.9	0	%100
8	M13	Y	-10.73	-10.73	0	%100
9	M15	Y	-9.807	-9.807	0	%100
10	M17	Y	-8.9	-8.9	0	%100
11	M18	Y	-8.9	-8.9	0	%100
12	M19	Y	-8.9	-8.9	0	%100
13	M20	Y	-8.9	-8.9	0	%100
14	M21	Y	-8.9	-8.9	0	%100
15	M22A	Y	-10.73	-10.73	0	%100
16	M21A	Y	-10.73	-10.73	0	%100
17	M22	Y	-10.73	-10.73	0	%100
18	M23	Y	-10.73	-10.73	0	%100
19	MP1A	Y	-5.096	-5.096	0	%100
20	MP2A	Y	-5.096	-5.096	0	%100
21	MP3A	Y	-5.096	-5.096	0	%100
22	MP4A	Y	-5.096	-5.096	0	%100
23	MP5A	Y	-5.096	-5.096	0	%100
24	MP1C	Y	-5.096	-5.096	0	%100
25	MP2C	Y	-5.096	-5.096	0	%100
26	MP3C	Y	-5.096	-5.096	0	%100
27	MP4C	Y	-5.096	-5.096	0	%100
28	MP5C	Y	-5.096	-5.096	0	%100
29	MP1B	Y	-5.096	-5.096	0	%100
30	MP2B	Y	-5.096	-5.096	0	%100
31	MP3B	Y	-5.096	-5.096	0	%100
32	MP4B	Y	-5.096	-5.096	0	%100
33	MP5B	Y	-5.096	-5.096	0	%100
34	M55	Y	-5.096	-5.096	0	%100
35	M58	Y	-5.814	-5.814	0	%100
36	M72	Y	-7.777	-7.777	0	%100
37	M73	Y	-7.777	-7.777	0	%100
38	M74	Y	-7.777	-7.777	0	%100
39	M73A	Y	-5.814	-5.814	0	%100
40	M74A	Y	-5.814	-5.814	0	%100
41	M57	Y	-5.096	-5.096	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-18.144	-18.144	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	-17.774	-17.774	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	-27.411	-27.411	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-10.613	-10.613	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	-4.536	-4.536	0	%100
13	M12	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
14	M12	Z	-4.443	-4.443	0 %100
15	M13	X	0	0	0 %100
16	M13	Z	-6.853	-6.853	0 %100
17	M15	X	0	0	0 %100
18	M15	Z	-10.613	-10.613	0 %100
19	M17	X	0	0	0 %100
20	M17	Z	-4.536	-4.536	0 %100
21	M18	X	0	0	0 %100
22	M18	Z	-4.443	-4.443	0 %100
23	M19	X	0	0	0 %100
24	M19	Z	-4.443	-4.443	0 %100
25	M20	X	0	0	0 %100
26	M20	Z	-4.443	-4.443	0 %100
27	M21	X	0	0	0 %100
28	M21	Z	-17.774	-17.774	0 %100
29	M22A	X	0	0	0 %100
30	M22A	Z	-6.853	-6.853	0 %100
31	M21A	X	0	0	0 %100
32	M21A	Z	-35.498	-35.498	0 %100
33	M22	X	0	0	0 %100
34	M22	Z	-8.875	-8.875	0 %100
35	M23	X	0	0	0 %100
36	M23	Z	-8.875	-8.875	0 %100
37	MP1A	X	0	0	0 %100
38	MP1A	Z	-8.443	-8.443	0 %100
39	MP2A	X	0	0	0 %100
40	MP2A	Z	-8.443	-8.443	0 %100
41	MP3A	X	0	0	0 %100
42	MP3A	Z	-7.694	-7.694	0 %100
43	MP4A	X	0	0	0 %100
44	MP4A	Z	-8.443	-8.443	0 %100
45	MP5A	X	0	0	0 %100
46	MP5A	Z	-8.443	-8.443	0 %100
47	MP1C	X	0	0	0 %100
48	MP1C	Z	-8.443	-8.443	0 %100
49	MP2C	X	0	0	0 %100
50	MP2C	Z	-8.443	-8.443	0 %100
51	MP3C	X	0	0	0 %100
52	MP3C	Z	-7.694	-7.694	0 %100
53	MP4C	X	0	0	0 %100
54	MP4C	Z	-8.443	-8.443	0 %100
55	MP5C	X	0	0	0 %100
56	MP5C	Z	-8.443	-8.443	0 %100
57	MP1B	X	0	0	0 %100
58	MP1B	Z	-8.443	-8.443	0 %100
59	MP2B	X	0	0	0 %100
60	MP2B	Z	-8.443	-8.443	0 %100
61	MP3B	X	0	0	0 %100
62	MP3B	Z	-7.694	-7.694	0 %100
63	MP4B	X	0	0	0 %100
64	MP4B	Z	-8.443	-8.443	0 %100
65	MP5B	X	0	0	0 %100
66	MP5B	Z	-8.443	-8.443	0 %100
67	M55	X	0	0	0 %100
68	M55	Z	-6.904	-6.904	0 %100
69	M58	X	0	0	0 %100
70	M58	Z	-10.22	-10.22	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
71	M72	X	0	0	0	%100
72	M72	Z	-3.27	-3.27	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-3.27	-3.27	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	-13.081	-13.081	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	-2.555	-2.555	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	-2.555	-2.555	0	%100
81	M57	X	0	0	0	%100
82	M57	Z	-6.904	-6.904	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.769	1.769	0	%100
2	M1	Z	-3.064	-3.064	0	%100
3	M4	X	6.804	6.804	0	%100
4	M4	Z	-11.785	-11.785	0	%100
5	M31A	X	6.665	6.665	0	%100
6	M31A	Z	-11.544	-11.544	0	%100
7	M33	X	10.279	10.279	0	%100
8	M33	Z	-17.804	-17.804	0	%100
9	M8	X	1.769	1.769	0	%100
10	M8	Z	-3.064	-3.064	0	%100
11	M10	X	6.804	6.804	0	%100
12	M10	Z	-11.785	-11.785	0	%100
13	M12	X	6.665	6.665	0	%100
14	M12	Z	-11.544	-11.544	0	%100
15	M13	X	10.279	10.279	0	%100
16	M13	Z	-17.804	-17.804	0	%100
17	M15	X	7.076	7.076	0	%100
18	M15	Z	-12.255	-12.255	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	6.665	6.665	0	%100
22	M18	Z	-11.544	-11.544	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	6.665	6.665	0	%100
28	M21	Z	-11.544	-11.544	0	%100
29	M22A	X	0	0	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	13.312	13.312	0	%100
32	M21A	Z	-23.057	-23.057	0	%100
33	M22	X	13.312	13.312	0	%100
34	M22	Z	-23.057	-23.057	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	0	0	0	%100
37	MP1A	X	4.221	4.221	0	%100
38	MP1A	Z	-7.312	-7.312	0	%100
39	MP2A	X	4.221	4.221	0	%100
40	MP2A	Z	-7.312	-7.312	0	%100
41	MP3A	X	3.847	3.847	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
42	MP3A	Z	-6.663	-6.663	0	%100
43	MP4A	X	4.221	4.221	0	%100
44	MP4A	Z	-7.312	-7.312	0	%100
45	MP5A	X	4.221	4.221	0	%100
46	MP5A	Z	-7.312	-7.312	0	%100
47	MP1C	X	4.221	4.221	0	%100
48	MP1C	Z	-7.312	-7.312	0	%100
49	MP2C	X	4.221	4.221	0	%100
50	MP2C	Z	-7.312	-7.312	0	%100
51	MP3C	X	3.847	3.847	0	%100
52	MP3C	Z	-6.663	-6.663	0	%100
53	MP4C	X	4.221	4.221	0	%100
54	MP4C	Z	-7.312	-7.312	0	%100
55	MP5C	X	4.221	4.221	0	%100
56	MP5C	Z	-7.312	-7.312	0	%100
57	MP1B	X	4.221	4.221	0	%100
58	MP1B	Z	-7.312	-7.312	0	%100
59	MP2B	X	4.221	4.221	0	%100
60	MP2B	Z	-7.312	-7.312	0	%100
61	MP3B	X	3.847	3.847	0	%100
62	MP3B	Z	-6.663	-6.663	0	%100
63	MP4B	X	4.221	4.221	0	%100
64	MP4B	Z	-7.312	-7.312	0	%100
65	MP5B	X	4.221	4.221	0	%100
66	MP5B	Z	-7.312	-7.312	0	%100
67	M55	X	3.452	3.452	0	%100
68	M55	Z	-5.979	-5.979	0	%100
69	M58	X	3.832	3.832	0	%100
70	M58	Z	-6.638	-6.638	0	%100
71	M72	X	4.906	4.906	0	%100
72	M72	Z	-8.497	-8.497	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	4.906	4.906	0	%100
76	M74	Z	-8.497	-8.497	0	%100
77	M73A	X	3.832	3.832	0	%100
78	M73A	Z	-6.638	-6.638	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	0	0	0	%100
81	M57	X	3.452	3.452	0	%100
82	M57	Z	-5.979	-5.979	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	9.191	9.191	0	%100
2	M1	Z	-5.307	-5.307	0	%100
3	M4	X	3.928	3.928	0	%100
4	M4	Z	-2.268	-2.268	0	%100
5	M31A	X	3.848	3.848	0	%100
6	M31A	Z	-2.222	-2.222	0	%100
7	M33	X	5.935	5.935	0	%100
8	M33	Z	-3.426	-3.426	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	0	0	0	%100
11	M10	X	15.713	15.713	0	%100
12	M10	Z	-9.072	-9.072	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
13	M12	X	15.393	15.393	0 %100
14	M12	Z	-8.887	-8.887	0 %100
15	M13	X	23.739	23.739	0 %100
16	M13	Z	-13.706	-13.706	0 %100
17	M15	X	9.191	9.191	0 %100
18	M15	Z	-5.307	-5.307	0 %100
19	M17	X	3.928	3.928	0 %100
20	M17	Z	-2.268	-2.268	0 %100
21	M18	X	15.393	15.393	0 %100
22	M18	Z	-8.887	-8.887	0 %100
23	M19	X	3.848	3.848	0 %100
24	M19	Z	-2.222	-2.222	0 %100
25	M20	X	3.848	3.848	0 %100
26	M20	Z	-2.222	-2.222	0 %100
27	M21	X	3.848	3.848	0 %100
28	M21	Z	-2.222	-2.222	0 %100
29	M22A	X	5.935	5.935	0 %100
30	M22A	Z	-3.426	-3.426	0 %100
31	M21A	X	7.686	7.686	0 %100
32	M21A	Z	-4.437	-4.437	0 %100
33	M22	X	30.743	30.743	0 %100
34	M22	Z	-17.749	-17.749	0 %100
35	M23	X	7.686	7.686	0 %100
36	M23	Z	-4.437	-4.437	0 %100
37	MP1A	X	7.312	7.312	0 %100
38	MP1A	Z	-4.221	-4.221	0 %100
39	MP2A	X	7.312	7.312	0 %100
40	MP2A	Z	-4.221	-4.221	0 %100
41	MP3A	X	6.663	6.663	0 %100
42	MP3A	Z	-3.847	-3.847	0 %100
43	MP4A	X	7.312	7.312	0 %100
44	MP4A	Z	-4.221	-4.221	0 %100
45	MP5A	X	7.312	7.312	0 %100
46	MP5A	Z	-4.221	-4.221	0 %100
47	MP1C	X	7.312	7.312	0 %100
48	MP1C	Z	-4.221	-4.221	0 %100
49	MP2C	X	7.312	7.312	0 %100
50	MP2C	Z	-4.221	-4.221	0 %100
51	MP3C	X	6.663	6.663	0 %100
52	MP3C	Z	-3.847	-3.847	0 %100
53	MP4C	X	7.312	7.312	0 %100
54	MP4C	Z	-4.221	-4.221	0 %100
55	MP5C	X	7.312	7.312	0 %100
56	MP5C	Z	-4.221	-4.221	0 %100
57	MP1B	X	7.312	7.312	0 %100
58	MP1B	Z	-4.221	-4.221	0 %100
59	MP2B	X	7.312	7.312	0 %100
60	MP2B	Z	-4.221	-4.221	0 %100
61	MP3B	X	6.663	6.663	0 %100
62	MP3B	Z	-3.847	-3.847	0 %100
63	MP4B	X	7.312	7.312	0 %100
64	MP4B	Z	-4.221	-4.221	0 %100
65	MP5B	X	7.312	7.312	0 %100
66	MP5B	Z	-4.221	-4.221	0 %100
67	M55	X	5.979	5.979	0 %100
68	M55	Z	-3.452	-3.452	0 %100
69	M58	X	2.213	2.213	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
70	M58	Z	-1.277	-1.277	0	%100
71	M72	X	11.329	11.329	0	%100
72	M72	Z	-6.541	-6.541	0	%100
73	M73	X	2.832	2.832	0	%100
74	M73	Z	-1.635	-1.635	0	%100
75	M74	X	2.832	2.832	0	%100
76	M74	Z	-1.635	-1.635	0	%100
77	M73A	X	8.851	8.851	0	%100
78	M73A	Z	-5.11	-5.11	0	%100
79	M74A	X	2.213	2.213	0	%100
80	M74A	Z	-1.277	-1.277	0	%100
81	M57	X	5.979	5.979	0	%100
82	M57	Z	-3.452	-3.452	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	14.151	14.151	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	0	0	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	0	0	0	%100
9	M8	X	3.538	3.538	0	%100
10	M8	Z	0	0	0	%100
11	M10	X	13.608	13.608	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	13.33	13.33	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	20.558	20.558	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	3.538	3.538	0	%100
18	M15	Z	0	0	0	%100
19	M17	X	13.608	13.608	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	13.33	13.33	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	13.33	13.33	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	13.33	13.33	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	0	0	0	%100
29	M22A	X	20.558	20.558	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	0	0	0	%100
32	M21A	Z	0	0	0	%100
33	M22	X	26.624	26.624	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	26.624	26.624	0	%100
36	M23	Z	0	0	0	%100
37	MP1A	X	8.443	8.443	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	8.443	8.443	0	%100
40	MP2A	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]	
41	MP3A	X	7.694	7.694	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	8.443	8.443	0	%100
44	MP4A	Z	0	0	0	%100
45	MP5A	X	8.443	8.443	0	%100
46	MP5A	Z	0	0	0	%100
47	MP1C	X	8.443	8.443	0	%100
48	MP1C	Z	0	0	0	%100
49	MP2C	X	8.443	8.443	0	%100
50	MP2C	Z	0	0	0	%100
51	MP3C	X	7.694	7.694	0	%100
52	MP3C	Z	0	0	0	%100
53	MP4C	X	8.443	8.443	0	%100
54	MP4C	Z	0	0	0	%100
55	MP5C	X	8.443	8.443	0	%100
56	MP5C	Z	0	0	0	%100
57	MP1B	X	8.443	8.443	0	%100
58	MP1B	Z	0	0	0	%100
59	MP2B	X	8.443	8.443	0	%100
60	MP2B	Z	0	0	0	%100
61	MP3B	X	7.694	7.694	0	%100
62	MP3B	Z	0	0	0	%100
63	MP4B	X	8.443	8.443	0	%100
64	MP4B	Z	0	0	0	%100
65	MP5B	X	8.443	8.443	0	%100
66	MP5B	Z	0	0	0	%100
67	M55	X	6.904	6.904	0	%100
68	M55	Z	0	0	0	%100
69	M58	X	0	0	0	%100
70	M58	Z	0	0	0	%100
71	M72	X	9.811	9.811	0	%100
72	M72	Z	0	0	0	%100
73	M73	X	9.811	9.811	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	0	0	0	%100
77	M73A	X	7.665	7.665	0	%100
78	M73A	Z	0	0	0	%100
79	M74A	X	7.665	7.665	0	%100
80	M74A	Z	0	0	0	%100
81	M57	X	6.904	6.904	0	%100
82	M57	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]	
1	M1	X	9.191	9.191	0	%100
2	M1	Z	5.307	5.307	0	%100
3	M4	X	3.928	3.928	0	%100
4	M4	Z	2.268	2.268	0	%100
5	M31A	X	3.848	3.848	0	%100
6	M31A	Z	2.222	2.222	0	%100
7	M33	X	5.935	5.935	0	%100
8	M33	Z	3.426	3.426	0	%100
9	M8	X	9.191	9.191	0	%100
10	M8	Z	5.307	5.307	0	%100
11	M10	X	3.928	3.928	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
12	M10	Z	2.268	2.268	0	%100
13	M12	X	3.848	3.848	0	%100
14	M12	Z	2.222	2.222	0	%100
15	M13	X	5.935	5.935	0	%100
16	M13	Z	3.426	3.426	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	0	0	0	%100
19	M17	X	15.713	15.713	0	%100
20	M17	Z	9.072	9.072	0	%100
21	M18	X	3.848	3.848	0	%100
22	M18	Z	2.222	2.222	0	%100
23	M19	X	15.393	15.393	0	%100
24	M19	Z	8.887	8.887	0	%100
25	M20	X	15.393	15.393	0	%100
26	M20	Z	8.887	8.887	0	%100
27	M21	X	3.848	3.848	0	%100
28	M21	Z	2.222	2.222	0	%100
29	M22A	X	23.739	23.739	0	%100
30	M22A	Z	13.706	13.706	0	%100
31	M21A	X	7.686	7.686	0	%100
32	M21A	Z	4.437	4.437	0	%100
33	M22	X	7.686	7.686	0	%100
34	M22	Z	4.437	4.437	0	%100
35	M23	X	30.743	30.743	0	%100
36	M23	Z	17.749	17.749	0	%100
37	MP1A	X	7.312	7.312	0	%100
38	MP1A	Z	4.221	4.221	0	%100
39	MP2A	X	7.312	7.312	0	%100
40	MP2A	Z	4.221	4.221	0	%100
41	MP3A	X	6.663	6.663	0	%100
42	MP3A	Z	3.847	3.847	0	%100
43	MP4A	X	7.312	7.312	0	%100
44	MP4A	Z	4.221	4.221	0	%100
45	MP5A	X	7.312	7.312	0	%100
46	MP5A	Z	4.221	4.221	0	%100
47	MP1C	X	7.312	7.312	0	%100
48	MP1C	Z	4.221	4.221	0	%100
49	MP2C	X	7.312	7.312	0	%100
50	MP2C	Z	4.221	4.221	0	%100
51	MP3C	X	6.663	6.663	0	%100
52	MP3C	Z	3.847	3.847	0	%100
53	MP4C	X	7.312	7.312	0	%100
54	MP4C	Z	4.221	4.221	0	%100
55	MP5C	X	7.312	7.312	0	%100
56	MP5C	Z	4.221	4.221	0	%100
57	MP1B	X	7.312	7.312	0	%100
58	MP1B	Z	4.221	4.221	0	%100
59	MP2B	X	7.312	7.312	0	%100
60	MP2B	Z	4.221	4.221	0	%100
61	MP3B	X	6.663	6.663	0	%100
62	MP3B	Z	3.847	3.847	0	%100
63	MP4B	X	7.312	7.312	0	%100
64	MP4B	Z	4.221	4.221	0	%100
65	MP5B	X	7.312	7.312	0	%100
66	MP5B	Z	4.221	4.221	0	%100
67	M55	X	5.979	5.979	0	%100
68	M55	Z	3.452	3.452	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
69	M58	X	2.213	2.213	0	%100
70	M58	Z	1.277	1.277	0	%100
71	M72	X	2.832	2.832	0	%100
72	M72	Z	1.635	1.635	0	%100
73	M73	X	11.329	11.329	0	%100
74	M73	Z	6.541	6.541	0	%100
75	M74	X	2.832	2.832	0	%100
76	M74	Z	1.635	1.635	0	%100
77	M73A	X	2.213	2.213	0	%100
78	M73A	Z	1.277	1.277	0	%100
79	M74A	X	8.851	8.851	0	%100
80	M74A	Z	5.11	5.11	0	%100
81	M57	X	5.979	5.979	0	%100
82	M57	Z	3.452	3.452	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.769	1.769	0	%100
2	M1	Z	3.064	3.064	0	%100
3	M4	X	6.804	6.804	0	%100
4	M4	Z	11.785	11.785	0	%100
5	M31A	X	6.665	6.665	0	%100
6	M31A	Z	11.544	11.544	0	%100
7	M33	X	10.279	10.279	0	%100
8	M33	Z	17.804	17.804	0	%100
9	M8	X	7.076	7.076	0	%100
10	M8	Z	12.255	12.255	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	1.769	1.769	0	%100
18	M15	Z	3.064	3.064	0	%100
19	M17	X	6.804	6.804	0	%100
20	M17	Z	11.785	11.785	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	6.665	6.665	0	%100
24	M19	Z	11.544	11.544	0	%100
25	M20	X	6.665	6.665	0	%100
26	M20	Z	11.544	11.544	0	%100
27	M21	X	6.665	6.665	0	%100
28	M21	Z	11.544	11.544	0	%100
29	M22A	X	10.279	10.279	0	%100
30	M22A	Z	17.804	17.804	0	%100
31	M21A	X	13.312	13.312	0	%100
32	M21A	Z	23.057	23.057	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	13.312	13.312	0	%100
36	M23	Z	23.057	23.057	0	%100
37	MP1A	X	4.221	4.221	0	%100
38	MP1A	Z	7.312	7.312	0	%100
39	MP2A	X	4.221	4.221	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	MP2A	Z	7.312	7.312	0	%100
41	MP3A	X	3.847	3.847	0	%100
42	MP3A	Z	6.663	6.663	0	%100
43	MP4A	X	4.221	4.221	0	%100
44	MP4A	Z	7.312	7.312	0	%100
45	MP5A	X	4.221	4.221	0	%100
46	MP5A	Z	7.312	7.312	0	%100
47	MP1C	X	4.221	4.221	0	%100
48	MP1C	Z	7.312	7.312	0	%100
49	MP2C	X	4.221	4.221	0	%100
50	MP2C	Z	7.312	7.312	0	%100
51	MP3C	X	3.847	3.847	0	%100
52	MP3C	Z	6.663	6.663	0	%100
53	MP4C	X	4.221	4.221	0	%100
54	MP4C	Z	7.312	7.312	0	%100
55	MP5C	X	4.221	4.221	0	%100
56	MP5C	Z	7.312	7.312	0	%100
57	MP1B	X	4.221	4.221	0	%100
58	MP1B	Z	7.312	7.312	0	%100
59	MP2B	X	4.221	4.221	0	%100
60	MP2B	Z	7.312	7.312	0	%100
61	MP3B	X	3.847	3.847	0	%100
62	MP3B	Z	6.663	6.663	0	%100
63	MP4B	X	4.221	4.221	0	%100
64	MP4B	Z	7.312	7.312	0	%100
65	MP5B	X	4.221	4.221	0	%100
66	MP5B	Z	7.312	7.312	0	%100
67	M55	X	3.452	3.452	0	%100
68	M55	Z	5.979	5.979	0	%100
69	M58	X	3.832	3.832	0	%100
70	M58	Z	6.638	6.638	0	%100
71	M72	X	0	0	0	%100
72	M72	Z	0	0	0	%100
73	M73	X	4.906	4.906	0	%100
74	M73	Z	8.497	8.497	0	%100
75	M74	X	4.906	4.906	0	%100
76	M74	Z	8.497	8.497	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	0	0	0	%100
79	M74A	X	3.832	3.832	0	%100
80	M74A	Z	6.638	6.638	0	%100
81	M57	X	3.452	3.452	0	%100
82	M57	Z	5.979	5.979	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	18.144	18.144	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	17.774	17.774	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	27.411	27.411	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	10.613	10.613	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
11	M10	X	0	0	0	%100
12	M10	Z	4.536	4.536	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	4.443	4.443	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	6.853	6.853	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	10.613	10.613	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	4.536	4.536	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	4.443	4.443	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	4.443	4.443	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	4.443	4.443	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	17.774	17.774	0	%100
29	M22A	X	0	0	0	%100
30	M22A	Z	6.853	6.853	0	%100
31	M21A	X	0	0	0	%100
32	M21A	Z	35.498	35.498	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	8.875	8.875	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	8.875	8.875	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	8.443	8.443	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	8.443	8.443	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	7.694	7.694	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	8.443	8.443	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	8.443	8.443	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	8.443	8.443	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	8.443	8.443	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	7.694	7.694	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	8.443	8.443	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	8.443	8.443	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	8.443	8.443	0	%100
59	MP2B	X	0	0	0	%100
60	MP2B	Z	8.443	8.443	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	7.694	7.694	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	8.443	8.443	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	8.443	8.443	0	%100
67	M55	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
68	M55	Z	6.904	6.904	0	%100
69	M58	X	0	0	0	%100
70	M58	Z	10.22	10.22	0	%100
71	M72	X	0	0	0	%100
72	M72	Z	3.27	3.27	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	3.27	3.27	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	13.081	13.081	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	2.555	2.555	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	2.555	2.555	0	%100
81	M57	X	0	0	0	%100
82	M57	Z	6.904	6.904	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-1.769	-1.769	0	%100
2	M1	Z	3.064	3.064	0	%100
3	M4	X	-6.804	-6.804	0	%100
4	M4	Z	11.785	11.785	0	%100
5	M31A	X	-6.665	-6.665	0	%100
6	M31A	Z	11.544	11.544	0	%100
7	M33	X	-10.279	-10.279	0	%100
8	M33	Z	17.804	17.804	0	%100
9	M8	X	-1.769	-1.769	0	%100
10	M8	Z	3.064	3.064	0	%100
11	M10	X	-6.804	-6.804	0	%100
12	M10	Z	11.785	11.785	0	%100
13	M12	X	-6.665	-6.665	0	%100
14	M12	Z	11.544	11.544	0	%100
15	M13	X	-10.279	-10.279	0	%100
16	M13	Z	17.804	17.804	0	%100
17	M15	X	-7.076	-7.076	0	%100
18	M15	Z	12.255	12.255	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	-6.665	-6.665	0	%100
22	M18	Z	11.544	11.544	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	-6.665	-6.665	0	%100
28	M21	Z	11.544	11.544	0	%100
29	M22A	X	0	0	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	-13.312	-13.312	0	%100
32	M21A	Z	23.057	23.057	0	%100
33	M22	X	-13.312	-13.312	0	%100
34	M22	Z	23.057	23.057	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	0	0	0	%100
37	MP1A	X	-4.221	-4.221	0	%100
38	MP1A	Z	7.312	7.312	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.%,]
39	MP2A	X	-4.221	-4.221	0	%100
40	MP2A	Z	7.312	7.312	0	%100
41	MP3A	X	-3.847	-3.847	0	%100
42	MP3A	Z	6.663	6.663	0	%100
43	MP4A	X	-4.221	-4.221	0	%100
44	MP4A	Z	7.312	7.312	0	%100
45	MP5A	X	-4.221	-4.221	0	%100
46	MP5A	Z	7.312	7.312	0	%100
47	MP1C	X	-4.221	-4.221	0	%100
48	MP1C	Z	7.312	7.312	0	%100
49	MP2C	X	-4.221	-4.221	0	%100
50	MP2C	Z	7.312	7.312	0	%100
51	MP3C	X	-3.847	-3.847	0	%100
52	MP3C	Z	6.663	6.663	0	%100
53	MP4C	X	-4.221	-4.221	0	%100
54	MP4C	Z	7.312	7.312	0	%100
55	MP5C	X	-4.221	-4.221	0	%100
56	MP5C	Z	7.312	7.312	0	%100
57	MP1B	X	-4.221	-4.221	0	%100
58	MP1B	Z	7.312	7.312	0	%100
59	MP2B	X	-4.221	-4.221	0	%100
60	MP2B	Z	7.312	7.312	0	%100
61	MP3B	X	-3.847	-3.847	0	%100
62	MP3B	Z	6.663	6.663	0	%100
63	MP4B	X	-4.221	-4.221	0	%100
64	MP4B	Z	7.312	7.312	0	%100
65	MP5B	X	-4.221	-4.221	0	%100
66	MP5B	Z	7.312	7.312	0	%100
67	M55	X	-3.452	-3.452	0	%100
68	M55	Z	5.979	5.979	0	%100
69	M58	X	-3.832	-3.832	0	%100
70	M58	Z	6.638	6.638	0	%100
71	M72	X	-4.906	-4.906	0	%100
72	M72	Z	8.497	8.497	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	-4.906	-4.906	0	%100
76	M74	Z	8.497	8.497	0	%100
77	M73A	X	-3.832	-3.832	0	%100
78	M73A	Z	6.638	6.638	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	0	0	0	%100
81	M57	X	-3.452	-3.452	0	%100
82	M57	Z	5.979	5.979	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-9.191	-9.191	0	%100
2	M1	Z	5.307	5.307	0	%100
3	M4	X	-3.928	-3.928	0	%100
4	M4	Z	2.268	2.268	0	%100
5	M31A	X	-3.848	-3.848	0	%100
6	M31A	Z	2.222	2.222	0	%100
7	M33	X	-5.935	-5.935	0	%100
8	M33	Z	3.426	3.426	0	%100
9	M8	X	0	0	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

Oct 7, 2021
 9:33 AM
 Checked By: _____

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, %]	
10	M8	Z	0	0	0	%100
11	M10	X	-15.713	-15.713	0	%100
12	M10	Z	9.072	9.072	0	%100
13	M12	X	-15.393	-15.393	0	%100
14	M12	Z	8.887	8.887	0	%100
15	M13	X	-23.739	-23.739	0	%100
16	M13	Z	13.706	13.706	0	%100
17	M15	X	-9.191	-9.191	0	%100
18	M15	Z	5.307	5.307	0	%100
19	M17	X	-3.928	-3.928	0	%100
20	M17	Z	2.268	2.268	0	%100
21	M18	X	-15.393	-15.393	0	%100
22	M18	Z	8.887	8.887	0	%100
23	M19	X	-3.848	-3.848	0	%100
24	M19	Z	2.222	2.222	0	%100
25	M20	X	-3.848	-3.848	0	%100
26	M20	Z	2.222	2.222	0	%100
27	M21	X	-3.848	-3.848	0	%100
28	M21	Z	2.222	2.222	0	%100
29	M22A	X	-5.935	-5.935	0	%100
30	M22A	Z	3.426	3.426	0	%100
31	M21A	X	-7.686	-7.686	0	%100
32	M21A	Z	4.437	4.437	0	%100
33	M22	X	-30.743	-30.743	0	%100
34	M22	Z	17.749	17.749	0	%100
35	M23	X	-7.686	-7.686	0	%100
36	M23	Z	4.437	4.437	0	%100
37	MP1A	X	-7.312	-7.312	0	%100
38	MP1A	Z	4.221	4.221	0	%100
39	MP2A	X	-7.312	-7.312	0	%100
40	MP2A	Z	4.221	4.221	0	%100
41	MP3A	X	-6.663	-6.663	0	%100
42	MP3A	Z	3.847	3.847	0	%100
43	MP4A	X	-7.312	-7.312	0	%100
44	MP4A	Z	4.221	4.221	0	%100
45	MP5A	X	-7.312	-7.312	0	%100
46	MP5A	Z	4.221	4.221	0	%100
47	MP1C	X	-7.312	-7.312	0	%100
48	MP1C	Z	4.221	4.221	0	%100
49	MP2C	X	-7.312	-7.312	0	%100
50	MP2C	Z	4.221	4.221	0	%100
51	MP3C	X	-6.663	-6.663	0	%100
52	MP3C	Z	3.847	3.847	0	%100
53	MP4C	X	-7.312	-7.312	0	%100
54	MP4C	Z	4.221	4.221	0	%100
55	MP5C	X	-7.312	-7.312	0	%100
56	MP5C	Z	4.221	4.221	0	%100
57	MP1B	X	-7.312	-7.312	0	%100
58	MP1B	Z	4.221	4.221	0	%100
59	MP2B	X	-7.312	-7.312	0	%100
60	MP2B	Z	4.221	4.221	0	%100
61	MP3B	X	-6.663	-6.663	0	%100
62	MP3B	Z	3.847	3.847	0	%100
63	MP4B	X	-7.312	-7.312	0	%100
64	MP4B	Z	4.221	4.221	0	%100
65	MP5B	X	-7.312	-7.312	0	%100
66	MP5B	Z	4.221	4.221	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
67	M55	X	-5.979	-5.979	0	%100
68	M55	Z	3.452	3.452	0	%100
69	M58	X	-2.213	-2.213	0	%100
70	M58	Z	1.277	1.277	0	%100
71	M72	X	-11.329	-11.329	0	%100
72	M72	Z	6.541	6.541	0	%100
73	M73	X	-2.832	-2.832	0	%100
74	M73	Z	1.635	1.635	0	%100
75	M74	X	-2.832	-2.832	0	%100
76	M74	Z	1.635	1.635	0	%100
77	M73A	X	-8.851	-8.851	0	%100
78	M73A	Z	5.11	5.11	0	%100
79	M74A	X	-2.213	-2.213	0	%100
80	M74A	Z	1.277	1.277	0	%100
81	M57	X	-5.979	-5.979	0	%100
82	M57	Z	3.452	3.452	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-14.151	-14.151	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	0	0	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	0	0	0	%100
9	M8	X	-3.538	-3.538	0	%100
10	M8	Z	0	0	0	%100
11	M10	X	-13.608	-13.608	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	-13.33	-13.33	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	-20.558	-20.558	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	-3.538	-3.538	0	%100
18	M15	Z	0	0	0	%100
19	M17	X	-13.608	-13.608	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	-13.33	-13.33	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	-13.33	-13.33	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	-13.33	-13.33	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	0	0	0	%100
29	M22A	X	-20.558	-20.558	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	0	0	0	%100
32	M21A	Z	0	0	0	%100
33	M22	X	-26.624	-26.624	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-26.624	-26.624	0	%100
36	M23	Z	0	0	0	%100
37	MP1A	X	-8.443	-8.443	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
38	MP1A	Z	0	0	0	%100
39	MP2A	X	-8.443	-8.443	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	-7.694	-7.694	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	-8.443	-8.443	0	%100
44	MP4A	Z	0	0	0	%100
45	MP5A	X	-8.443	-8.443	0	%100
46	MP5A	Z	0	0	0	%100
47	MP1C	X	-8.443	-8.443	0	%100
48	MP1C	Z	0	0	0	%100
49	MP2C	X	-8.443	-8.443	0	%100
50	MP2C	Z	0	0	0	%100
51	MP3C	X	-7.694	-7.694	0	%100
52	MP3C	Z	0	0	0	%100
53	MP4C	X	-8.443	-8.443	0	%100
54	MP4C	Z	0	0	0	%100
55	MP5C	X	-8.443	-8.443	0	%100
56	MP5C	Z	0	0	0	%100
57	MP1B	X	-8.443	-8.443	0	%100
58	MP1B	Z	0	0	0	%100
59	MP2B	X	-8.443	-8.443	0	%100
60	MP2B	Z	0	0	0	%100
61	MP3B	X	-7.694	-7.694	0	%100
62	MP3B	Z	0	0	0	%100
63	MP4B	X	-8.443	-8.443	0	%100
64	MP4B	Z	0	0	0	%100
65	MP5B	X	-8.443	-8.443	0	%100
66	MP5B	Z	0	0	0	%100
67	M55	X	-6.904	-6.904	0	%100
68	M55	Z	0	0	0	%100
69	M58	X	0	0	0	%100
70	M58	Z	0	0	0	%100
71	M72	X	-9.811	-9.811	0	%100
72	M72	Z	0	0	0	%100
73	M73	X	-9.811	-9.811	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	0	0	0	%100
77	M73A	X	-7.665	-7.665	0	%100
78	M73A	Z	0	0	0	%100
79	M74A	X	-7.665	-7.665	0	%100
80	M74A	Z	0	0	0	%100
81	M57	X	-6.904	-6.904	0	%100
82	M57	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-9.191	-9.191	0	%100
2	M1	Z	-5.307	-5.307	0	%100
3	M4	X	-3.928	-3.928	0	%100
4	M4	Z	-2.268	-2.268	0	%100
5	M31A	X	-3.848	-3.848	0	%100
6	M31A	Z	-2.222	-2.222	0	%100
7	M33	X	-5.935	-5.935	0	%100
8	M33	Z	-3.426	-3.426	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

Oct 7, 2021
 9:33 AM
 Checked By: _____

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, %]
9	M8	X	-9.191	-9.191	0 %100
10	M8	Z	-5.307	-5.307	0 %100
11	M10	X	-3.928	-3.928	0 %100
12	M10	Z	-2.268	-2.268	0 %100
13	M12	X	-3.848	-3.848	0 %100
14	M12	Z	-2.222	-2.222	0 %100
15	M13	X	-5.935	-5.935	0 %100
16	M13	Z	-3.426	-3.426	0 %100
17	M15	X	0	0	0 %100
18	M15	Z	0	0	0 %100
19	M17	X	-15.713	-15.713	0 %100
20	M17	Z	-9.072	-9.072	0 %100
21	M18	X	-3.848	-3.848	0 %100
22	M18	Z	-2.222	-2.222	0 %100
23	M19	X	-15.393	-15.393	0 %100
24	M19	Z	-8.887	-8.887	0 %100
25	M20	X	-15.393	-15.393	0 %100
26	M20	Z	-8.887	-8.887	0 %100
27	M21	X	-3.848	-3.848	0 %100
28	M21	Z	-2.222	-2.222	0 %100
29	M22A	X	-23.739	-23.739	0 %100
30	M22A	Z	-13.706	-13.706	0 %100
31	M21A	X	-7.686	-7.686	0 %100
32	M21A	Z	-4.437	-4.437	0 %100
33	M22	X	-7.686	-7.686	0 %100
34	M22	Z	-4.437	-4.437	0 %100
35	M23	X	-30.743	-30.743	0 %100
36	M23	Z	-17.749	-17.749	0 %100
37	MP1A	X	-7.312	-7.312	0 %100
38	MP1A	Z	-4.221	-4.221	0 %100
39	MP2A	X	-7.312	-7.312	0 %100
40	MP2A	Z	-4.221	-4.221	0 %100
41	MP3A	X	-6.663	-6.663	0 %100
42	MP3A	Z	-3.847	-3.847	0 %100
43	MP4A	X	-7.312	-7.312	0 %100
44	MP4A	Z	-4.221	-4.221	0 %100
45	MP5A	X	-7.312	-7.312	0 %100
46	MP5A	Z	-4.221	-4.221	0 %100
47	MP1C	X	-7.312	-7.312	0 %100
48	MP1C	Z	-4.221	-4.221	0 %100
49	MP2C	X	-7.312	-7.312	0 %100
50	MP2C	Z	-4.221	-4.221	0 %100
51	MP3C	X	-6.663	-6.663	0 %100
52	MP3C	Z	-3.847	-3.847	0 %100
53	MP4C	X	-7.312	-7.312	0 %100
54	MP4C	Z	-4.221	-4.221	0 %100
55	MP5C	X	-7.312	-7.312	0 %100
56	MP5C	Z	-4.221	-4.221	0 %100
57	MP1B	X	-7.312	-7.312	0 %100
58	MP1B	Z	-4.221	-4.221	0 %100
59	MP2B	X	-7.312	-7.312	0 %100
60	MP2B	Z	-4.221	-4.221	0 %100
61	MP3B	X	-6.663	-6.663	0 %100
62	MP3B	Z	-3.847	-3.847	0 %100
63	MP4B	X	-7.312	-7.312	0 %100
64	MP4B	Z	-4.221	-4.221	0 %100
65	MP5B	X	-7.312	-7.312	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, %]
66	MP5B	Z	-4.221	-4.221	0	%100
67	M55	X	-5.979	-5.979	0	%100
68	M55	Z	-3.452	-3.452	0	%100
69	M58	X	-2.213	-2.213	0	%100
70	M58	Z	-1.277	-1.277	0	%100
71	M72	X	-2.832	-2.832	0	%100
72	M72	Z	-1.635	-1.635	0	%100
73	M73	X	-11.329	-11.329	0	%100
74	M73	Z	-6.541	-6.541	0	%100
75	M74	X	-2.832	-2.832	0	%100
76	M74	Z	-1.635	-1.635	0	%100
77	M73A	X	-2.213	-2.213	0	%100
78	M73A	Z	-1.277	-1.277	0	%100
79	M74A	X	-8.851	-8.851	0	%100
80	M74A	Z	-5.11	-5.11	0	%100
81	M57	X	-5.979	-5.979	0	%100
82	M57	Z	-3.452	-3.452	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.769	-1.769	0	%100
2	M1	Z	-3.064	-3.064	0	%100
3	M4	X	-6.804	-6.804	0	%100
4	M4	Z	-11.785	-11.785	0	%100
5	M31A	X	-6.665	-6.665	0	%100
6	M31A	Z	-11.544	-11.544	0	%100
7	M33	X	-10.279	-10.279	0	%100
8	M33	Z	-17.804	-17.804	0	%100
9	M8	X	-7.076	-7.076	0	%100
10	M8	Z	-12.255	-12.255	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	-1.769	-1.769	0	%100
18	M15	Z	-3.064	-3.064	0	%100
19	M17	X	-6.804	-6.804	0	%100
20	M17	Z	-11.785	-11.785	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	-6.665	-6.665	0	%100
24	M19	Z	-11.544	-11.544	0	%100
25	M20	X	-6.665	-6.665	0	%100
26	M20	Z	-11.544	-11.544	0	%100
27	M21	X	-6.665	-6.665	0	%100
28	M21	Z	-11.544	-11.544	0	%100
29	M22A	X	-10.279	-10.279	0	%100
30	M22A	Z	-17.804	-17.804	0	%100
31	M21A	X	-13.312	-13.312	0	%100
32	M21A	Z	-23.057	-23.057	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-13.312	-13.312	0	%100
36	M23	Z	-23.057	-23.057	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
37	MP1A	X	-4.221	-4.221	0	%100
38	MP1A	Z	-7.312	-7.312	0	%100
39	MP2A	X	-4.221	-4.221	0	%100
40	MP2A	Z	-7.312	-7.312	0	%100
41	MP3A	X	-3.847	-3.847	0	%100
42	MP3A	Z	-6.663	-6.663	0	%100
43	MP4A	X	-4.221	-4.221	0	%100
44	MP4A	Z	-7.312	-7.312	0	%100
45	MP5A	X	-4.221	-4.221	0	%100
46	MP5A	Z	-7.312	-7.312	0	%100
47	MP1C	X	-4.221	-4.221	0	%100
48	MP1C	Z	-7.312	-7.312	0	%100
49	MP2C	X	-4.221	-4.221	0	%100
50	MP2C	Z	-7.312	-7.312	0	%100
51	MP3C	X	-3.847	-3.847	0	%100
52	MP3C	Z	-6.663	-6.663	0	%100
53	MP4C	X	-4.221	-4.221	0	%100
54	MP4C	Z	-7.312	-7.312	0	%100
55	MP5C	X	-4.221	-4.221	0	%100
56	MP5C	Z	-7.312	-7.312	0	%100
57	MP1B	X	-4.221	-4.221	0	%100
58	MP1B	Z	-7.312	-7.312	0	%100
59	MP2B	X	-4.221	-4.221	0	%100
60	MP2B	Z	-7.312	-7.312	0	%100
61	MP3B	X	-3.847	-3.847	0	%100
62	MP3B	Z	-6.663	-6.663	0	%100
63	MP4B	X	-4.221	-4.221	0	%100
64	MP4B	Z	-7.312	-7.312	0	%100
65	MP5B	X	-4.221	-4.221	0	%100
66	MP5B	Z	-7.312	-7.312	0	%100
67	M55	X	-3.452	-3.452	0	%100
68	M55	Z	-5.979	-5.979	0	%100
69	M58	X	-3.832	-3.832	0	%100
70	M58	Z	-6.638	-6.638	0	%100
71	M72	X	0	0	0	%100
72	M72	Z	0	0	0	%100
73	M73	X	-4.906	-4.906	0	%100
74	M73	Z	-8.497	-8.497	0	%100
75	M74	X	-4.906	-4.906	0	%100
76	M74	Z	-8.497	-8.497	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	0	0	0	%100
79	M74A	X	-3.832	-3.832	0	%100
80	M74A	Z	-6.638	-6.638	0	%100
81	M57	X	-3.452	-3.452	0	%100
82	M57	Z	-5.979	-5.979	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-4.104	-4.104	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	-3.942	-3.942	0	%100
7	M33	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F...]	Start Location[ft.%]	End Location[ft.%]
8	M33	Z	-6.209	-6.209	0 %100
9	M8	X	0	0	0 %100
10	M8	Z	-2.93	-2.93	0 %100
11	M10	X	0	0	0 %100
12	M10	Z	-1.026	-1.026	0 %100
13	M12	X	0	0	0 %100
14	M12	Z	-.985	-.985	0 %100
15	M13	X	0	0	0 %100
16	M13	Z	-1.552	-1.552	0 %100
17	M15	X	0	0	0 %100
18	M15	Z	-2.93	-2.93	0 %100
19	M17	X	0	0	0 %100
20	M17	Z	-1.026	-1.026	0 %100
21	M18	X	0	0	0 %100
22	M18	Z	-.985	-.985	0 %100
23	M19	X	0	0	0 %100
24	M19	Z	-.985	-.985	0 %100
25	M20	X	0	0	0 %100
26	M20	Z	-.985	-.985	0 %100
27	M21	X	0	0	0 %100
28	M21	Z	-3.942	-3.942	0 %100
29	M22A	X	0	0	0 %100
30	M22A	Z	-1.552	-1.552	0 %100
31	M21A	X	0	0	0 %100
32	M21A	Z	-7.613	-7.613	0 %100
33	M22	X	0	0	0 %100
34	M22	Z	-1.903	-1.903	0 %100
35	M23	X	0	0	0 %100
36	M23	Z	-1.903	-1.903	0 %100
37	MP1A	X	0	0	0 %100
38	MP1A	Z	-2.916	-2.916	0 %100
39	MP2A	X	0	0	0 %100
40	MP2A	Z	-2.916	-2.916	0 %100
41	MP3A	X	0	0	0 %100
42	MP3A	Z	-2.663	-2.663	0 %100
43	MP4A	X	0	0	0 %100
44	MP4A	Z	-2.916	-2.916	0 %100
45	MP5A	X	0	0	0 %100
46	MP5A	Z	-2.916	-2.916	0 %100
47	MP1C	X	0	0	0 %100
48	MP1C	Z	-2.916	-2.916	0 %100
49	MP2C	X	0	0	0 %100
50	MP2C	Z	-2.916	-2.916	0 %100
51	MP3C	X	0	0	0 %100
52	MP3C	Z	-2.663	-2.663	0 %100
53	MP4C	X	0	0	0 %100
54	MP4C	Z	-2.916	-2.916	0 %100
55	MP5C	X	0	0	0 %100
56	MP5C	Z	-2.916	-2.916	0 %100
57	MP1B	X	0	0	0 %100
58	MP1B	Z	-2.916	-2.916	0 %100
59	MP2B	X	0	0	0 %100
60	MP2B	Z	-2.916	-2.916	0 %100
61	MP3B	X	0	0	0 %100
62	MP3B	Z	-2.663	-2.663	0 %100
63	MP4B	X	0	0	0 %100
64	MP4B	Z	-2.916	-2.916	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
65	MP5B	X	0	0	0	%100
66	MP5B	Z	-2.916	-2.916	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	-2.389	-2.389	0	%100
69	M58	X	0	0	0	%100
70	M58	Z	-3.225	-3.225	0	%100
71	M72	X	0	0	0	%100
72	M72	Z	-.841	-.841	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-.841	-.841	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	-3.364	-3.364	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	-.806	-.806	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	-.806	-.806	0	%100
81	M57	X	0	0	0	%100
82	M57	Z	-2.389	-2.389	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.488	.488	0	%100
2	M1	Z	-.846	-.846	0	%100
3	M4	X	1.539	1.539	0	%100
4	M4	Z	-2.665	-2.665	0	%100
5	M31A	X	1.478	1.478	0	%100
6	M31A	Z	-2.56	-2.56	0	%100
7	M33	X	2.328	2.328	0	%100
8	M33	Z	-4.033	-4.033	0	%100
9	M8	X	.488	.488	0	%100
10	M8	Z	-.846	-.846	0	%100
11	M10	X	1.539	1.539	0	%100
12	M10	Z	-2.665	-2.665	0	%100
13	M12	X	1.478	1.478	0	%100
14	M12	Z	-2.56	-2.56	0	%100
15	M13	X	2.328	2.328	0	%100
16	M13	Z	-4.033	-4.033	0	%100
17	M15	X	1.954	1.954	0	%100
18	M15	Z	-3.384	-3.384	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	1.478	1.478	0	%100
22	M18	Z	-2.56	-2.56	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	1.478	1.478	0	%100
28	M21	Z	-2.56	-2.56	0	%100
29	M22A	X	0	0	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	2.855	2.855	0	%100
32	M21A	Z	-4.945	-4.945	0	%100
33	M22	X	2.855	2.855	0	%100
34	M22	Z	-4.945	-4.945	0	%100
35	M23	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
36	M23	Z	0	0	0	%100
37	MP1A	X	1.458	1.458	0	%100
38	MP1A	Z	-2.525	-2.525	0	%100
39	MP2A	X	1.458	1.458	0	%100
40	MP2A	Z	-2.525	-2.525	0	%100
41	MP3A	X	1.332	1.332	0	%100
42	MP3A	Z	-2.306	-2.306	0	%100
43	MP4A	X	1.458	1.458	0	%100
44	MP4A	Z	-2.525	-2.525	0	%100
45	MP5A	X	1.458	1.458	0	%100
46	MP5A	Z	-2.525	-2.525	0	%100
47	MP1C	X	1.458	1.458	0	%100
48	MP1C	Z	-2.525	-2.525	0	%100
49	MP2C	X	1.458	1.458	0	%100
50	MP2C	Z	-2.525	-2.525	0	%100
51	MP3C	X	1.332	1.332	0	%100
52	MP3C	Z	-2.306	-2.306	0	%100
53	MP4C	X	1.458	1.458	0	%100
54	MP4C	Z	-2.525	-2.525	0	%100
55	MP5C	X	1.458	1.458	0	%100
56	MP5C	Z	-2.525	-2.525	0	%100
57	MP1B	X	1.458	1.458	0	%100
58	MP1B	Z	-2.525	-2.525	0	%100
59	MP2B	X	1.458	1.458	0	%100
60	MP2B	Z	-2.525	-2.525	0	%100
61	MP3B	X	1.332	1.332	0	%100
62	MP3B	Z	-2.306	-2.306	0	%100
63	MP4B	X	1.458	1.458	0	%100
64	MP4B	Z	-2.525	-2.525	0	%100
65	MP5B	X	1.458	1.458	0	%100
66	MP5B	Z	-2.525	-2.525	0	%100
67	M55	X	1.194	1.194	0	%100
68	M55	Z	-2.069	-2.069	0	%100
69	M58	X	1.209	1.209	0	%100
70	M58	Z	-2.094	-2.094	0	%100
71	M72	X	1.261	1.261	0	%100
72	M72	Z	-2.185	-2.185	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	1.261	1.261	0	%100
76	M74	Z	-2.185	-2.185	0	%100
77	M73A	X	1.209	1.209	0	%100
78	M73A	Z	-2.094	-2.094	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	0	0	0	%100
81	M57	X	1.194	1.194	0	%100
82	M57	Z	-2.069	-2.069	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.538	2.538	0	%100
2	M1	Z	-1.465	-1.465	0	%100
3	M4	X	.888	.888	0	%100
4	M4	Z	-.513	-.513	0	%100
5	M31A	X	.853	.853	0	%100
6	M31A	Z	-.493	-.493	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
7	M33	X	1.344	1.344	0 %100
8	M33	Z	-0.776	-0.776	0 %100
9	M8	X	0	0	0 %100
10	M8	Z	0	0	0 %100
11	M10	X	3.554	3.554	0 %100
12	M10	Z	-2.052	-2.052	0 %100
13	M12	X	3.414	3.414	0 %100
14	M12	Z	-1.971	-1.971	0 %100
15	M13	X	5.377	5.377	0 %100
16	M13	Z	-3.105	-3.105	0 %100
17	M15	X	2.538	2.538	0 %100
18	M15	Z	-1.465	-1.465	0 %100
19	M17	X	.888	.888	0 %100
20	M17	Z	-.513	-.513	0 %100
21	M18	X	3.414	3.414	0 %100
22	M18	Z	-1.971	-1.971	0 %100
23	M19	X	.853	.853	0 %100
24	M19	Z	-.493	-.493	0 %100
25	M20	X	.853	.853	0 %100
26	M20	Z	-.493	-.493	0 %100
27	M21	X	.853	.853	0 %100
28	M21	Z	-.493	-.493	0 %100
29	M22A	X	1.344	1.344	0 %100
30	M22A	Z	-.776	-.776	0 %100
31	M21A	X	1.648	1.648	0 %100
32	M21A	Z	-.952	-.952	0 %100
33	M22	X	6.593	6.593	0 %100
34	M22	Z	-3.807	-3.807	0 %100
35	M23	X	1.648	1.648	0 %100
36	M23	Z	-.952	-.952	0 %100
37	MP1A	X	2.525	2.525	0 %100
38	MP1A	Z	-1.458	-1.458	0 %100
39	MP2A	X	2.525	2.525	0 %100
40	MP2A	Z	-1.458	-1.458	0 %100
41	MP3A	X	2.306	2.306	0 %100
42	MP3A	Z	-1.332	-1.332	0 %100
43	MP4A	X	2.525	2.525	0 %100
44	MP4A	Z	-1.458	-1.458	0 %100
45	MP5A	X	2.525	2.525	0 %100
46	MP5A	Z	-1.458	-1.458	0 %100
47	MP1C	X	2.525	2.525	0 %100
48	MP1C	Z	-1.458	-1.458	0 %100
49	MP2C	X	2.525	2.525	0 %100
50	MP2C	Z	-1.458	-1.458	0 %100
51	MP3C	X	2.306	2.306	0 %100
52	MP3C	Z	-1.332	-1.332	0 %100
53	MP4C	X	2.525	2.525	0 %100
54	MP4C	Z	-1.458	-1.458	0 %100
55	MP5C	X	2.525	2.525	0 %100
56	MP5C	Z	-1.458	-1.458	0 %100
57	MP1B	X	2.525	2.525	0 %100
58	MP1B	Z	-1.458	-1.458	0 %100
59	MP2B	X	2.525	2.525	0 %100
60	MP2B	Z	-1.458	-1.458	0 %100
61	MP3B	X	2.306	2.306	0 %100
62	MP3B	Z	-1.332	-1.332	0 %100
63	MP4B	X	2.525	2.525	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
64	MP4B	Z	-1.458	-1.458	0	%100
65	MP5B	X	2.525	2.525	0	%100
66	MP5B	Z	-1.458	-1.458	0	%100
67	M55	X	2.069	2.069	0	%100
68	M55	Z	-1.194	-1.194	0	%100
69	M58	X	.698	.698	0	%100
70	M58	Z	-.403	-.403	0	%100
71	M72	X	2.913	2.913	0	%100
72	M72	Z	-1.682	-1.682	0	%100
73	M73	X	.728	.728	0	%100
74	M73	Z	-.42	-.42	0	%100
75	M74	X	.728	.728	0	%100
76	M74	Z	-.42	-.42	0	%100
77	M73A	X	2.793	2.793	0	%100
78	M73A	Z	-1.612	-1.612	0	%100
79	M74A	X	.698	.698	0	%100
80	M74A	Z	-.403	-.403	0	%100
81	M57	X	2.069	2.069	0	%100
82	M57	Z	-1.194	-1.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	3.907	3.907	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	0	0	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	0	0	0	%100
9	M8	X	.977	.977	0	%100
10	M8	Z	0	0	0	%100
11	M10	X	3.078	3.078	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	2.956	2.956	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	4.657	4.657	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	.977	.977	0	%100
18	M15	Z	0	0	0	%100
19	M17	X	3.078	3.078	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	2.956	2.956	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	2.956	2.956	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	2.956	2.956	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	0	0	0	%100
29	M22A	X	4.657	4.657	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	0	0	0	%100
32	M21A	Z	0	0	0	%100
33	M22	X	5.71	5.71	0	%100
34	M22	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
35	M23	X	5.71	5.71	0 %100
36	M23	Z	0	0	0 %100
37	MP1A	X	2.916	2.916	0 %100
38	MP1A	Z	0	0	0 %100
39	MP2A	X	2.916	2.916	0 %100
40	MP2A	Z	0	0	0 %100
41	MP3A	X	2.663	2.663	0 %100
42	MP3A	Z	0	0	0 %100
43	MP4A	X	2.916	2.916	0 %100
44	MP4A	Z	0	0	0 %100
45	MP5A	X	2.916	2.916	0 %100
46	MP5A	Z	0	0	0 %100
47	MP1C	X	2.916	2.916	0 %100
48	MP1C	Z	0	0	0 %100
49	MP2C	X	2.916	2.916	0 %100
50	MP2C	Z	0	0	0 %100
51	MP3C	X	2.663	2.663	0 %100
52	MP3C	Z	0	0	0 %100
53	MP4C	X	2.916	2.916	0 %100
54	MP4C	Z	0	0	0 %100
55	MP5C	X	2.916	2.916	0 %100
56	MP5C	Z	0	0	0 %100
57	MP1B	X	2.916	2.916	0 %100
58	MP1B	Z	0	0	0 %100
59	MP2B	X	2.916	2.916	0 %100
60	MP2B	Z	0	0	0 %100
61	MP3B	X	2.663	2.663	0 %100
62	MP3B	Z	0	0	0 %100
63	MP4B	X	2.916	2.916	0 %100
64	MP4B	Z	0	0	0 %100
65	MP5B	X	2.916	2.916	0 %100
66	MP5B	Z	0	0	0 %100
67	M55	X	2.389	2.389	0 %100
68	M55	Z	0	0	0 %100
69	M58	X	0	0	0 %100
70	M58	Z	0	0	0 %100
71	M72	X	2.523	2.523	0 %100
72	M72	Z	0	0	0 %100
73	M73	X	2.523	2.523	0 %100
74	M73	Z	0	0	0 %100
75	M74	X	0	0	0 %100
76	M74	Z	0	0	0 %100
77	M73A	X	2.418	2.418	0 %100
78	M73A	Z	0	0	0 %100
79	M74A	X	2.418	2.418	0 %100
80	M74A	Z	0	0	0 %100
81	M57	X	2.389	2.389	0 %100
82	M57	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.538	2.538	0 %100
2	M1	Z	1.465	1.465	0 %100
3	M4	X	.888	.888	0 %100
4	M4	Z	.513	.513	0 %100
5	M31A	X	.853	.853	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
6	M31A	Z	.493	.493	0 %100
7	M33	X	1.344	1.344	0 %100
8	M33	Z	.776	.776	0 %100
9	M8	X	2.538	2.538	0 %100
10	M8	Z	1.465	1.465	0 %100
11	M10	X	.888	.888	0 %100
12	M10	Z	.513	.513	0 %100
13	M12	X	.853	.853	0 %100
14	M12	Z	.493	.493	0 %100
15	M13	X	1.344	1.344	0 %100
16	M13	Z	.776	.776	0 %100
17	M15	X	0	0	0 %100
18	M15	Z	0	0	0 %100
19	M17	X	3.554	3.554	0 %100
20	M17	Z	2.052	2.052	0 %100
21	M18	X	.853	.853	0 %100
22	M18	Z	.493	.493	0 %100
23	M19	X	3.414	3.414	0 %100
24	M19	Z	1.971	1.971	0 %100
25	M20	X	3.414	3.414	0 %100
26	M20	Z	1.971	1.971	0 %100
27	M21	X	.853	.853	0 %100
28	M21	Z	.493	.493	0 %100
29	M22A	X	5.377	5.377	0 %100
30	M22A	Z	3.105	3.105	0 %100
31	M21A	X	1.648	1.648	0 %100
32	M21A	Z	.952	.952	0 %100
33	M22	X	1.648	1.648	0 %100
34	M22	Z	.952	.952	0 %100
35	M23	X	6.593	6.593	0 %100
36	M23	Z	3.807	3.807	0 %100
37	MP1A	X	2.525	2.525	0 %100
38	MP1A	Z	1.458	1.458	0 %100
39	MP2A	X	2.525	2.525	0 %100
40	MP2A	Z	1.458	1.458	0 %100
41	MP3A	X	2.306	2.306	0 %100
42	MP3A	Z	1.332	1.332	0 %100
43	MP4A	X	2.525	2.525	0 %100
44	MP4A	Z	1.458	1.458	0 %100
45	MP5A	X	2.525	2.525	0 %100
46	MP5A	Z	1.458	1.458	0 %100
47	MP1C	X	2.525	2.525	0 %100
48	MP1C	Z	1.458	1.458	0 %100
49	MP2C	X	2.525	2.525	0 %100
50	MP2C	Z	1.458	1.458	0 %100
51	MP3C	X	2.306	2.306	0 %100
52	MP3C	Z	1.332	1.332	0 %100
53	MP4C	X	2.525	2.525	0 %100
54	MP4C	Z	1.458	1.458	0 %100
55	MP5C	X	2.525	2.525	0 %100
56	MP5C	Z	1.458	1.458	0 %100
57	MP1B	X	2.525	2.525	0 %100
58	MP1B	Z	1.458	1.458	0 %100
59	MP2B	X	2.525	2.525	0 %100
60	MP2B	Z	1.458	1.458	0 %100
61	MP3B	X	2.306	2.306	0 %100
62	MP3B	Z	1.332	1.332	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
63	MP4B	X	2.525	2.525	0	%100
64	MP4B	Z	1.458	1.458	0	%100
65	MP5B	X	2.525	2.525	0	%100
66	MP5B	Z	1.458	1.458	0	%100
67	M55	X	2.069	2.069	0	%100
68	M55	Z	1.194	1.194	0	%100
69	M58	X	.698	.698	0	%100
70	M58	Z	.403	.403	0	%100
71	M72	X	.728	.728	0	%100
72	M72	Z	.42	.42	0	%100
73	M73	X	2.913	2.913	0	%100
74	M73	Z	1.682	1.682	0	%100
75	M74	X	.728	.728	0	%100
76	M74	Z	.42	.42	0	%100
77	M73A	X	.698	.698	0	%100
78	M73A	Z	.403	.403	0	%100
79	M74A	X	2.793	2.793	0	%100
80	M74A	Z	1.612	1.612	0	%100
81	M57	X	2.069	2.069	0	%100
82	M57	Z	1.194	1.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.488	.488	0	%100
2	M1	Z	.846	.846	0	%100
3	M4	X	1.539	1.539	0	%100
4	M4	Z	2.665	2.665	0	%100
5	M31A	X	1.478	1.478	0	%100
6	M31A	Z	2.56	2.56	0	%100
7	M33	X	2.328	2.328	0	%100
8	M33	Z	4.033	4.033	0	%100
9	M8	X	1.954	1.954	0	%100
10	M8	Z	3.384	3.384	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	.488	.488	0	%100
18	M15	Z	.846	.846	0	%100
19	M17	X	1.539	1.539	0	%100
20	M17	Z	2.665	2.665	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	1.478	1.478	0	%100
24	M19	Z	2.56	2.56	0	%100
25	M20	X	1.478	1.478	0	%100
26	M20	Z	2.56	2.56	0	%100
27	M21	X	1.478	1.478	0	%100
28	M21	Z	2.56	2.56	0	%100
29	M22A	X	2.328	2.328	0	%100
30	M22A	Z	4.033	4.033	0	%100
31	M21A	X	2.855	2.855	0	%100
32	M21A	Z	4.945	4.945	0	%100
33	M22	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
34	M22	Z	0	0	0	%100
35	M23	X	2.855	2.855	0	%100
36	M23	Z	4.945	4.945	0	%100
37	MP1A	X	1.458	1.458	0	%100
38	MP1A	Z	2.525	2.525	0	%100
39	MP2A	X	1.458	1.458	0	%100
40	MP2A	Z	2.525	2.525	0	%100
41	MP3A	X	1.332	1.332	0	%100
42	MP3A	Z	2.306	2.306	0	%100
43	MP4A	X	1.458	1.458	0	%100
44	MP4A	Z	2.525	2.525	0	%100
45	MP5A	X	1.458	1.458	0	%100
46	MP5A	Z	2.525	2.525	0	%100
47	MP1C	X	1.458	1.458	0	%100
48	MP1C	Z	2.525	2.525	0	%100
49	MP2C	X	1.458	1.458	0	%100
50	MP2C	Z	2.525	2.525	0	%100
51	MP3C	X	1.332	1.332	0	%100
52	MP3C	Z	2.306	2.306	0	%100
53	MP4C	X	1.458	1.458	0	%100
54	MP4C	Z	2.525	2.525	0	%100
55	MP5C	X	1.458	1.458	0	%100
56	MP5C	Z	2.525	2.525	0	%100
57	MP1B	X	1.458	1.458	0	%100
58	MP1B	Z	2.525	2.525	0	%100
59	MP2B	X	1.458	1.458	0	%100
60	MP2B	Z	2.525	2.525	0	%100
61	MP3B	X	1.332	1.332	0	%100
62	MP3B	Z	2.306	2.306	0	%100
63	MP4B	X	1.458	1.458	0	%100
64	MP4B	Z	2.525	2.525	0	%100
65	MP5B	X	1.458	1.458	0	%100
66	MP5B	Z	2.525	2.525	0	%100
67	M55	X	1.194	1.194	0	%100
68	M55	Z	2.069	2.069	0	%100
69	M58	X	1.209	1.209	0	%100
70	M58	Z	2.094	2.094	0	%100
71	M72	X	0	0	0	%100
72	M72	Z	0	0	0	%100
73	M73	X	1.261	1.261	0	%100
74	M73	Z	2.185	2.185	0	%100
75	M74	X	1.261	1.261	0	%100
76	M74	Z	2.185	2.185	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	0	0	0	%100
79	M74A	X	1.209	1.209	0	%100
80	M74A	Z	2.094	2.094	0	%100
81	M57	X	1.194	1.194	0	%100
82	M57	Z	2.069	2.069	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	4.104	4.104	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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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.%,]	
5	M31A	X	0	0	0	%100
6	M31A	Z	3.942	3.942	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	6.209	6.209	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	2.93	2.93	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	1.026	1.026	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	.985	.985	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	1.552	1.552	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	2.93	2.93	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	1.026	1.026	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	.985	.985	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	.985	.985	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	.985	.985	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	3.942	3.942	0	%100
29	M22A	X	0	0	0	%100
30	M22A	Z	1.552	1.552	0	%100
31	M21A	X	0	0	0	%100
32	M21A	Z	7.613	7.613	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	1.903	1.903	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	1.903	1.903	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	2.916	2.916	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	2.916	2.916	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	2.663	2.663	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	2.916	2.916	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	2.916	2.916	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	2.916	2.916	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	2.916	2.916	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	2.663	2.663	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	2.916	2.916	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	2.916	2.916	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	2.916	2.916	0	%100
59	MP2B	X	0	0	0	%100
60	MP2B	Z	2.916	2.916	0	%100
61	MP3B	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
62	MP3B	Z	2.663	2.663	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	2.916	2.916	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	2.916	2.916	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	2.389	2.389	0	%100
69	M58	X	0	0	0	%100
70	M58	Z	3.225	3.225	0	%100
71	M72	X	0	0	0	%100
72	M72	Z	.841	.841	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	.841	.841	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	3.364	3.364	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	.806	.806	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	.806	.806	0	%100
81	M57	X	0	0	0	%100
82	M57	Z	2.389	2.389	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-.488	-.488	0	%100
2	M1	Z	.846	.846	0	%100
3	M4	X	-1.539	-1.539	0	%100
4	M4	Z	2.665	2.665	0	%100
5	M31A	X	-1.478	-1.478	0	%100
6	M31A	Z	2.56	2.56	0	%100
7	M33	X	-2.328	-2.328	0	%100
8	M33	Z	4.033	4.033	0	%100
9	M8	X	-.488	-.488	0	%100
10	M8	Z	.846	.846	0	%100
11	M10	X	-1.539	-1.539	0	%100
12	M10	Z	2.665	2.665	0	%100
13	M12	X	-1.478	-1.478	0	%100
14	M12	Z	2.56	2.56	0	%100
15	M13	X	-2.328	-2.328	0	%100
16	M13	Z	4.033	4.033	0	%100
17	M15	X	-1.954	-1.954	0	%100
18	M15	Z	3.384	3.384	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	-1.478	-1.478	0	%100
22	M18	Z	2.56	2.56	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	-1.478	-1.478	0	%100
28	M21	Z	2.56	2.56	0	%100
29	M22A	X	0	0	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	-2.855	-2.855	0	%100
32	M21A	Z	4.945	4.945	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
33	M22	X	-2.855	-2.855	0 %100
34	M22	Z	4.945	4.945	0 %100
35	M23	X	0	0	0 %100
36	M23	Z	0	0	0 %100
37	MP1A	X	-1.458	-1.458	0 %100
38	MP1A	Z	2.525	2.525	0 %100
39	MP2A	X	-1.458	-1.458	0 %100
40	MP2A	Z	2.525	2.525	0 %100
41	MP3A	X	-1.332	-1.332	0 %100
42	MP3A	Z	2.306	2.306	0 %100
43	MP4A	X	-1.458	-1.458	0 %100
44	MP4A	Z	2.525	2.525	0 %100
45	MP5A	X	-1.458	-1.458	0 %100
46	MP5A	Z	2.525	2.525	0 %100
47	MP1C	X	-1.458	-1.458	0 %100
48	MP1C	Z	2.525	2.525	0 %100
49	MP2C	X	-1.458	-1.458	0 %100
50	MP2C	Z	2.525	2.525	0 %100
51	MP3C	X	-1.332	-1.332	0 %100
52	MP3C	Z	2.306	2.306	0 %100
53	MP4C	X	-1.458	-1.458	0 %100
54	MP4C	Z	2.525	2.525	0 %100
55	MP5C	X	-1.458	-1.458	0 %100
56	MP5C	Z	2.525	2.525	0 %100
57	MP1B	X	-1.458	-1.458	0 %100
58	MP1B	Z	2.525	2.525	0 %100
59	MP2B	X	-1.458	-1.458	0 %100
60	MP2B	Z	2.525	2.525	0 %100
61	MP3B	X	-1.332	-1.332	0 %100
62	MP3B	Z	2.306	2.306	0 %100
63	MP4B	X	-1.458	-1.458	0 %100
64	MP4B	Z	2.525	2.525	0 %100
65	MP5B	X	-1.458	-1.458	0 %100
66	MP5B	Z	2.525	2.525	0 %100
67	M55	X	-1.194	-1.194	0 %100
68	M55	Z	2.069	2.069	0 %100
69	M58	X	-1.209	-1.209	0 %100
70	M58	Z	2.094	2.094	0 %100
71	M72	X	-1.261	-1.261	0 %100
72	M72	Z	2.185	2.185	0 %100
73	M73	X	0	0	0 %100
74	M73	Z	0	0	0 %100
75	M74	X	-1.261	-1.261	0 %100
76	M74	Z	2.185	2.185	0 %100
77	M73A	X	-1.209	-1.209	0 %100
78	M73A	Z	2.094	2.094	0 %100
79	M74A	X	0	0	0 %100
80	M74A	Z	0	0	0 %100
81	M57	X	-1.194	-1.194	0 %100
82	M57	Z	2.069	2.069	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.538	-2.538	0 %100
2	M1	Z	1.465	1.465	0 %100
3	M4	X	-0.888	-0.888	0 %100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

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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, %]
4	M4	Z	.513	.513	0 %100
5	M31A	X	-.853	-.853	0 %100
6	M31A	Z	.493	.493	0 %100
7	M33	X	-1.344	-1.344	0 %100
8	M33	Z	.776	.776	0 %100
9	M8	X	0	0	0 %100
10	M8	Z	0	0	0 %100
11	M10	X	-3.554	-3.554	0 %100
12	M10	Z	2.052	2.052	0 %100
13	M12	X	-3.414	-3.414	0 %100
14	M12	Z	1.971	1.971	0 %100
15	M13	X	-5.377	-5.377	0 %100
16	M13	Z	3.105	3.105	0 %100
17	M15	X	-2.538	-2.538	0 %100
18	M15	Z	1.465	1.465	0 %100
19	M17	X	-.888	-.888	0 %100
20	M17	Z	.513	.513	0 %100
21	M18	X	-3.414	-3.414	0 %100
22	M18	Z	1.971	1.971	0 %100
23	M19	X	-.853	-.853	0 %100
24	M19	Z	.493	.493	0 %100
25	M20	X	-.853	-.853	0 %100
26	M20	Z	.493	.493	0 %100
27	M21	X	-.853	-.853	0 %100
28	M21	Z	.493	.493	0 %100
29	M22A	X	-1.344	-1.344	0 %100
30	M22A	Z	.776	.776	0 %100
31	M21A	X	-1.648	-1.648	0 %100
32	M21A	Z	.952	.952	0 %100
33	M22	X	-6.593	-6.593	0 %100
34	M22	Z	3.807	3.807	0 %100
35	M23	X	-1.648	-1.648	0 %100
36	M23	Z	.952	.952	0 %100
37	MP1A	X	-2.525	-2.525	0 %100
38	MP1A	Z	1.458	1.458	0 %100
39	MP2A	X	-2.525	-2.525	0 %100
40	MP2A	Z	1.458	1.458	0 %100
41	MP3A	X	-2.306	-2.306	0 %100
42	MP3A	Z	1.332	1.332	0 %100
43	MP4A	X	-2.525	-2.525	0 %100
44	MP4A	Z	1.458	1.458	0 %100
45	MP5A	X	-2.525	-2.525	0 %100
46	MP5A	Z	1.458	1.458	0 %100
47	MP1C	X	-2.525	-2.525	0 %100
48	MP1C	Z	1.458	1.458	0 %100
49	MP2C	X	-2.525	-2.525	0 %100
50	MP2C	Z	1.458	1.458	0 %100
51	MP3C	X	-2.306	-2.306	0 %100
52	MP3C	Z	1.332	1.332	0 %100
53	MP4C	X	-2.525	-2.525	0 %100
54	MP4C	Z	1.458	1.458	0 %100
55	MP5C	X	-2.525	-2.525	0 %100
56	MP5C	Z	1.458	1.458	0 %100
57	MP1B	X	-2.525	-2.525	0 %100
58	MP1B	Z	1.458	1.458	0 %100
59	MP2B	X	-2.525	-2.525	0 %100
60	MP2B	Z	1.458	1.458	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
61	MP3B	X	-2.306	-2.306	0	%100
62	MP3B	Z	1.332	1.332	0	%100
63	MP4B	X	-2.525	-2.525	0	%100
64	MP4B	Z	1.458	1.458	0	%100
65	MP5B	X	-2.525	-2.525	0	%100
66	MP5B	Z	1.458	1.458	0	%100
67	M55	X	-2.069	-2.069	0	%100
68	M55	Z	1.194	1.194	0	%100
69	M58	X	-.698	-.698	0	%100
70	M58	Z	.403	.403	0	%100
71	M72	X	-2.913	-2.913	0	%100
72	M72	Z	1.682	1.682	0	%100
73	M73	X	-.728	-.728	0	%100
74	M73	Z	.42	.42	0	%100
75	M74	X	-.728	-.728	0	%100
76	M74	Z	.42	.42	0	%100
77	M73A	X	-2.793	-2.793	0	%100
78	M73A	Z	1.612	1.612	0	%100
79	M74A	X	-.698	-.698	0	%100
80	M74A	Z	.403	.403	0	%100
81	M57	X	-2.069	-2.069	0	%100
82	M57	Z	1.194	1.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-3.907	-3.907	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	0	0	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	0	0	0	%100
9	M8	X	-.977	-.977	0	%100
10	M8	Z	0	0	0	%100
11	M10	X	-3.078	-3.078	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	-2.956	-2.956	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	-4.657	-4.657	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	-.977	-.977	0	%100
18	M15	Z	0	0	0	%100
19	M17	X	-3.078	-3.078	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	-2.956	-2.956	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	-2.956	-2.956	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	-2.956	-2.956	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	0	0	0	%100
29	M22A	X	-4.657	-4.657	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	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.%,]
32	M21A	Z	0	0	0	%100
33	M22	X	-5.71	-5.71	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-5.71	-5.71	0	%100
36	M23	Z	0	0	0	%100
37	MP1A	X	-2.916	-2.916	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	-2.916	-2.916	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	-2.663	-2.663	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	-2.916	-2.916	0	%100
44	MP4A	Z	0	0	0	%100
45	MP5A	X	-2.916	-2.916	0	%100
46	MP5A	Z	0	0	0	%100
47	MP1C	X	-2.916	-2.916	0	%100
48	MP1C	Z	0	0	0	%100
49	MP2C	X	-2.916	-2.916	0	%100
50	MP2C	Z	0	0	0	%100
51	MP3C	X	-2.663	-2.663	0	%100
52	MP3C	Z	0	0	0	%100
53	MP4C	X	-2.916	-2.916	0	%100
54	MP4C	Z	0	0	0	%100
55	MP5C	X	-2.916	-2.916	0	%100
56	MP5C	Z	0	0	0	%100
57	MP1B	X	-2.916	-2.916	0	%100
58	MP1B	Z	0	0	0	%100
59	MP2B	X	-2.916	-2.916	0	%100
60	MP2B	Z	0	0	0	%100
61	MP3B	X	-2.663	-2.663	0	%100
62	MP3B	Z	0	0	0	%100
63	MP4B	X	-2.916	-2.916	0	%100
64	MP4B	Z	0	0	0	%100
65	MP5B	X	-2.916	-2.916	0	%100
66	MP5B	Z	0	0	0	%100
67	M55	X	-2.389	-2.389	0	%100
68	M55	Z	0	0	0	%100
69	M58	X	0	0	0	%100
70	M58	Z	0	0	0	%100
71	M72	X	-2.523	-2.523	0	%100
72	M72	Z	0	0	0	%100
73	M73	X	-2.523	-2.523	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	0	0	0	%100
77	M73A	X	-2.418	-2.418	0	%100
78	M73A	Z	0	0	0	%100
79	M74A	X	-2.418	-2.418	0	%100
80	M74A	Z	0	0	0	%100
81	M57	X	-2.389	-2.389	0	%100
82	M57	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-2.538	-2.538	0	%100
2	M1	Z	-1.465	-1.465	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, %]
3	M4	X	-888	-888	0 %100
4	M4	Z	-513	-513	0 %100
5	M31A	X	-853	-853	0 %100
6	M31A	Z	-493	-493	0 %100
7	M33	X	-1.344	-1.344	0 %100
8	M33	Z	-776	-776	0 %100
9	M8	X	-2.538	-2.538	0 %100
10	M8	Z	-1.465	-1.465	0 %100
11	M10	X	-888	-888	0 %100
12	M10	Z	-513	-513	0 %100
13	M12	X	-853	-853	0 %100
14	M12	Z	-493	-493	0 %100
15	M13	X	-1.344	-1.344	0 %100
16	M13	Z	-776	-776	0 %100
17	M15	X	0	0	0 %100
18	M15	Z	0	0	0 %100
19	M17	X	-3.554	-3.554	0 %100
20	M17	Z	-2.052	-2.052	0 %100
21	M18	X	-853	-853	0 %100
22	M18	Z	-493	-493	0 %100
23	M19	X	-3.414	-3.414	0 %100
24	M19	Z	-1.971	-1.971	0 %100
25	M20	X	-3.414	-3.414	0 %100
26	M20	Z	-1.971	-1.971	0 %100
27	M21	X	-853	-853	0 %100
28	M21	Z	-493	-493	0 %100
29	M22A	X	-5.377	-5.377	0 %100
30	M22A	Z	-3.105	-3.105	0 %100
31	M21A	X	-1.648	-1.648	0 %100
32	M21A	Z	-952	-952	0 %100
33	M22	X	-1.648	-1.648	0 %100
34	M22	Z	-952	-952	0 %100
35	M23	X	-6.593	-6.593	0 %100
36	M23	Z	-3.807	-3.807	0 %100
37	MP1A	X	-2.525	-2.525	0 %100
38	MP1A	Z	-1.458	-1.458	0 %100
39	MP2A	X	-2.525	-2.525	0 %100
40	MP2A	Z	-1.458	-1.458	0 %100
41	MP3A	X	-2.306	-2.306	0 %100
42	MP3A	Z	-1.332	-1.332	0 %100
43	MP4A	X	-2.525	-2.525	0 %100
44	MP4A	Z	-1.458	-1.458	0 %100
45	MP5A	X	-2.525	-2.525	0 %100
46	MP5A	Z	-1.458	-1.458	0 %100
47	MP1C	X	-2.525	-2.525	0 %100
48	MP1C	Z	-1.458	-1.458	0 %100
49	MP2C	X	-2.525	-2.525	0 %100
50	MP2C	Z	-1.458	-1.458	0 %100
51	MP3C	X	-2.306	-2.306	0 %100
52	MP3C	Z	-1.332	-1.332	0 %100
53	MP4C	X	-2.525	-2.525	0 %100
54	MP4C	Z	-1.458	-1.458	0 %100
55	MP5C	X	-2.525	-2.525	0 %100
56	MP5C	Z	-1.458	-1.458	0 %100
57	MP1B	X	-2.525	-2.525	0 %100
58	MP1B	Z	-1.458	-1.458	0 %100
59	MP2B	X	-2.525	-2.525	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, %]
60	MP2B	Z	-1.458	-1.458	0	%100
61	MP3B	X	-2.306	-2.306	0	%100
62	MP3B	Z	-1.332	-1.332	0	%100
63	MP4B	X	-2.525	-2.525	0	%100
64	MP4B	Z	-1.458	-1.458	0	%100
65	MP5B	X	-2.525	-2.525	0	%100
66	MP5B	Z	-1.458	-1.458	0	%100
67	M55	X	-2.069	-2.069	0	%100
68	M55	Z	-1.194	-1.194	0	%100
69	M58	X	-.698	-.698	0	%100
70	M58	Z	-.403	-.403	0	%100
71	M72	X	-.728	-.728	0	%100
72	M72	Z	-.42	-.42	0	%100
73	M73	X	-2.913	-2.913	0	%100
74	M73	Z	-1.682	-1.682	0	%100
75	M74	X	-.728	-.728	0	%100
76	M74	Z	-.42	-.42	0	%100
77	M73A	X	-.698	-.698	0	%100
78	M73A	Z	-.403	-.403	0	%100
79	M74A	X	-2.793	-2.793	0	%100
80	M74A	Z	-1.612	-1.612	0	%100
81	M57	X	-2.069	-2.069	0	%100
82	M57	Z	-1.194	-1.194	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.488	-.488	0	%100
2	M1	Z	-.846	-.846	0	%100
3	M4	X	-1.539	-1.539	0	%100
4	M4	Z	-2.665	-2.665	0	%100
5	M31A	X	-1.478	-1.478	0	%100
6	M31A	Z	-2.56	-2.56	0	%100
7	M33	X	-2.328	-2.328	0	%100
8	M33	Z	-4.033	-4.033	0	%100
9	M8	X	-1.954	-1.954	0	%100
10	M8	Z	-3.384	-3.384	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	-.488	-.488	0	%100
18	M15	Z	-.846	-.846	0	%100
19	M17	X	-1.539	-1.539	0	%100
20	M17	Z	-2.665	-2.665	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	-1.478	-1.478	0	%100
24	M19	Z	-2.56	-2.56	0	%100
25	M20	X	-1.478	-1.478	0	%100
26	M20	Z	-2.56	-2.56	0	%100
27	M21	X	-1.478	-1.478	0	%100
28	M21	Z	-2.56	-2.56	0	%100
29	M22A	X	-2.328	-2.328	0	%100
30	M22A	Z	-4.033	-4.033	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.%,]
31	M21A	X	-2.855	-2.855	0	%100
32	M21A	Z	-4.945	-4.945	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	0	0	0	%100
35	M23	X	-2.855	-2.855	0	%100
36	M23	Z	-4.945	-4.945	0	%100
37	MP1A	X	-1.458	-1.458	0	%100
38	MP1A	Z	-2.525	-2.525	0	%100
39	MP2A	X	-1.458	-1.458	0	%100
40	MP2A	Z	-2.525	-2.525	0	%100
41	MP3A	X	-1.332	-1.332	0	%100
42	MP3A	Z	-2.306	-2.306	0	%100
43	MP4A	X	-1.458	-1.458	0	%100
44	MP4A	Z	-2.525	-2.525	0	%100
45	MP5A	X	-1.458	-1.458	0	%100
46	MP5A	Z	-2.525	-2.525	0	%100
47	MP1C	X	-1.458	-1.458	0	%100
48	MP1C	Z	-2.525	-2.525	0	%100
49	MP2C	X	-1.458	-1.458	0	%100
50	MP2C	Z	-2.525	-2.525	0	%100
51	MP3C	X	-1.332	-1.332	0	%100
52	MP3C	Z	-2.306	-2.306	0	%100
53	MP4C	X	-1.458	-1.458	0	%100
54	MP4C	Z	-2.525	-2.525	0	%100
55	MP5C	X	-1.458	-1.458	0	%100
56	MP5C	Z	-2.525	-2.525	0	%100
57	MP1B	X	-1.458	-1.458	0	%100
58	MP1B	Z	-2.525	-2.525	0	%100
59	MP2B	X	-1.458	-1.458	0	%100
60	MP2B	Z	-2.525	-2.525	0	%100
61	MP3B	X	-1.332	-1.332	0	%100
62	MP3B	Z	-2.306	-2.306	0	%100
63	MP4B	X	-1.458	-1.458	0	%100
64	MP4B	Z	-2.525	-2.525	0	%100
65	MP5B	X	-1.458	-1.458	0	%100
66	MP5B	Z	-2.525	-2.525	0	%100
67	M55	X	-1.194	-1.194	0	%100
68	M55	Z	-2.069	-2.069	0	%100
69	M58	X	-1.209	-1.209	0	%100
70	M58	Z	-2.094	-2.094	0	%100
71	M72	X	0	0	0	%100
72	M72	Z	0	0	0	%100
73	M73	X	-1.261	-1.261	0	%100
74	M73	Z	-2.185	-2.185	0	%100
75	M74	X	-1.261	-1.261	0	%100
76	M74	Z	-2.185	-2.185	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	0	0	0	%100
79	M74A	X	-1.209	-1.209	0	%100
80	M74A	Z	-2.094	-2.094	0	%100
81	M57	X	-1.194	-1.194	0	%100
82	M57	Z	-2.069	-2.069	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100



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.%]
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	-1.134	-1.134	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	-1.111	-1.111	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	-1.713	-1.713	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	-.663	-.663	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	-.283	-.283	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	-.278	-.278	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	-.428	-.428	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	-.663	-.663	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	-.283	-.283	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	-.278	-.278	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	-.278	-.278	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	-.278	-.278	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	-1.111	-1.111	0	%100
29	M22A	X	0	0	0	%100
30	M22A	Z	-.428	-.428	0	%100
31	M21A	X	0	0	0	%100
32	M21A	Z	-2.219	-2.219	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	-.555	-.555	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	-.555	-.555	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-.528	-.528	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	-.528	-.528	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	-.481	-.481	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	-.528	-.528	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	-.528	-.528	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	-.528	-.528	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	-.528	-.528	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	-.481	-.481	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	-.528	-.528	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	-.528	-.528	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	-.528	-.528	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
59	MP2B	X	0	0	0	%100
60	MP2B	Z	-.528	-.528	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	-.481	-.481	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	-.528	-.528	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	-.528	-.528	0	%100
67	M55	X	0	0	0	%100
68	M55	Z	-.431	-.431	0	%100
69	M58	X	0	0	0	%100
70	M58	Z	-.639	-.639	0	%100
71	M72	X	0	0	0	%100
72	M72	Z	-.204	-.204	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	-.204	-.204	0	%100
75	M74	X	0	0	0	%100
76	M74	Z	-.818	-.818	0	%100
77	M73A	X	0	0	0	%100
78	M73A	Z	-.16	-.16	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	-.16	-.16	0	%100
81	M57	X	0	0	0	%100
82	M57	Z	-.431	-.431	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.111	.111	0	%100
2	M1	Z	-.191	-.191	0	%100
3	M4	X	.425	.425	0	%100
4	M4	Z	-.737	-.737	0	%100
5	M31A	X	.417	.417	0	%100
6	M31A	Z	-.722	-.722	0	%100
7	M33	X	.642	.642	0	%100
8	M33	Z	-1.113	-1.113	0	%100
9	M8	X	.111	.111	0	%100
10	M8	Z	-.191	-.191	0	%100
11	M10	X	.425	.425	0	%100
12	M10	Z	-.737	-.737	0	%100
13	M12	X	.417	.417	0	%100
14	M12	Z	-.722	-.722	0	%100
15	M13	X	.642	.642	0	%100
16	M13	Z	-1.113	-1.113	0	%100
17	M15	X	.442	.442	0	%100
18	M15	Z	-.766	-.766	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	.417	.417	0	%100
22	M18	Z	-.722	-.722	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	.417	.417	0	%100
28	M21	Z	-.722	-.722	0	%100
29	M22A	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
30	M22A	Z	0	0	0	%100
31	M21A	X	.832	.832	0	%100
32	M21A	Z	-1.441	-1.441	0	%100
33	M22	X	.832	.832	0	%100
34	M22	Z	-1.441	-1.441	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	0	0	0	%100
37	MP1A	X	.264	.264	0	%100
38	MP1A	Z	-.457	-.457	0	%100
39	MP2A	X	.264	.264	0	%100
40	MP2A	Z	-.457	-.457	0	%100
41	MP3A	X	.24	.24	0	%100
42	MP3A	Z	-.416	-.416	0	%100
43	MP4A	X	.264	.264	0	%100
44	MP4A	Z	-.457	-.457	0	%100
45	MP5A	X	.264	.264	0	%100
46	MP5A	Z	-.457	-.457	0	%100
47	MP1C	X	.264	.264	0	%100
48	MP1C	Z	-.457	-.457	0	%100
49	MP2C	X	.264	.264	0	%100
50	MP2C	Z	-.457	-.457	0	%100
51	MP3C	X	.24	.24	0	%100
52	MP3C	Z	-.416	-.416	0	%100
53	MP4C	X	.264	.264	0	%100
54	MP4C	Z	-.457	-.457	0	%100
55	MP5C	X	.264	.264	0	%100
56	MP5C	Z	-.457	-.457	0	%100
57	MP1B	X	.264	.264	0	%100
58	MP1B	Z	-.457	-.457	0	%100
59	MP2B	X	.264	.264	0	%100
60	MP2B	Z	-.457	-.457	0	%100
61	MP3B	X	.24	.24	0	%100
62	MP3B	Z	-.416	-.416	0	%100
63	MP4B	X	.264	.264	0	%100
64	MP4B	Z	-.457	-.457	0	%100
65	MP5B	X	.264	.264	0	%100
66	MP5B	Z	-.457	-.457	0	%100
67	M55	X	.216	.216	0	%100
68	M55	Z	-.374	-.374	0	%100
69	M58	X	.24	.24	0	%100
70	M58	Z	-.415	-.415	0	%100
71	M72	X	.307	.307	0	%100
72	M72	Z	-.531	-.531	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	.307	.307	0	%100
76	M74	Z	-.531	-.531	0	%100
77	M73A	X	.24	.24	0	%100
78	M73A	Z	-.415	-.415	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	0	0	0	%100
81	M57	X	.216	.216	0	%100
82	M57	Z	-.374	-.374	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,%]
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Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

Oct 7, 2021
 9:33 AM
 Checked By: _____

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.%]
1	M1	X	.574	.574	0 %100
2	M1	Z	-.332	-.332	0 %100
3	M4	X	.246	.246	0 %100
4	M4	Z	-.142	-.142	0 %100
5	M31A	X	.241	.241	0 %100
6	M31A	Z	-.139	-.139	0 %100
7	M33	X	.371	.371	0 %100
8	M33	Z	-.214	-.214	0 %100
9	M8	X	0	0	0 %100
10	M8	Z	0	0	0 %100
11	M10	X	.982	.982	0 %100
12	M10	Z	-.567	-.567	0 %100
13	M12	X	.962	.962	0 %100
14	M12	Z	-.555	-.555	0 %100
15	M13	X	1.484	1.484	0 %100
16	M13	Z	-.857	-.857	0 %100
17	M15	X	.574	.574	0 %100
18	M15	Z	-.332	-.332	0 %100
19	M17	X	.246	.246	0 %100
20	M17	Z	-.142	-.142	0 %100
21	M18	X	.962	.962	0 %100
22	M18	Z	-.555	-.555	0 %100
23	M19	X	.241	.241	0 %100
24	M19	Z	-.139	-.139	0 %100
25	M20	X	.241	.241	0 %100
26	M20	Z	-.139	-.139	0 %100
27	M21	X	.241	.241	0 %100
28	M21	Z	-.139	-.139	0 %100
29	M22A	X	.371	.371	0 %100
30	M22A	Z	-.214	-.214	0 %100
31	M21A	X	.48	.48	0 %100
32	M21A	Z	-.277	-.277	0 %100
33	M22	X	1.921	1.921	0 %100
34	M22	Z	-1.109	-1.109	0 %100
35	M23	X	.48	.48	0 %100
36	M23	Z	-.277	-.277	0 %100
37	MP1A	X	.457	.457	0 %100
38	MP1A	Z	-.264	-.264	0 %100
39	MP2A	X	.457	.457	0 %100
40	MP2A	Z	-.264	-.264	0 %100
41	MP3A	X	.416	.416	0 %100
42	MP3A	Z	-.24	-.24	0 %100
43	MP4A	X	.457	.457	0 %100
44	MP4A	Z	-.264	-.264	0 %100
45	MP5A	X	.457	.457	0 %100
46	MP5A	Z	-.264	-.264	0 %100
47	MP1C	X	.457	.457	0 %100
48	MP1C	Z	-.264	-.264	0 %100
49	MP2C	X	.457	.457	0 %100
50	MP2C	Z	-.264	-.264	0 %100
51	MP3C	X	.416	.416	0 %100
52	MP3C	Z	-.24	-.24	0 %100
53	MP4C	X	.457	.457	0 %100
54	MP4C	Z	-.264	-.264	0 %100
55	MP5C	X	.457	.457	0 %100
56	MP5C	Z	-.264	-.264	0 %100
57	MP1B	X	.457	.457	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	MP1B	Z	-.264	-.264	0	%100
59	MP2B	X	.457	.457	0	%100
60	MP2B	Z	-.264	-.264	0	%100
61	MP3B	X	.416	.416	0	%100
62	MP3B	Z	-.24	-.24	0	%100
63	MP4B	X	.457	.457	0	%100
64	MP4B	Z	-.264	-.264	0	%100
65	MP5B	X	.457	.457	0	%100
66	MP5B	Z	-.264	-.264	0	%100
67	M55	X	.374	.374	0	%100
68	M55	Z	-.216	-.216	0	%100
69	M58	X	.138	.138	0	%100
70	M58	Z	-.08	-.08	0	%100
71	M72	X	.708	.708	0	%100
72	M72	Z	-.409	-.409	0	%100
73	M73	X	.177	.177	0	%100
74	M73	Z	-.102	-.102	0	%100
75	M74	X	.177	.177	0	%100
76	M74	Z	-.102	-.102	0	%100
77	M73A	X	.553	.553	0	%100
78	M73A	Z	-.319	-.319	0	%100
79	M74A	X	.138	.138	0	%100
80	M74A	Z	-.08	-.08	0	%100
81	M57	X	.374	.374	0	%100
82	M57	Z	-.216	-.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.884	.884	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	0	0	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	0	0	0	%100
9	M8	X	.221	.221	0	%100
10	M8	Z	0	0	0	%100
11	M10	X	.85	.85	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	.833	.833	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	1.285	1.285	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	.221	.221	0	%100
18	M15	Z	0	0	0	%100
19	M17	X	.85	.85	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	.833	.833	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	.833	.833	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	.833	.833	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	M22A	X	1.285	1.285	0 %100
30	M22A	Z	0	0	0 %100
31	M21A	X	0	0	0 %100
32	M21A	Z	0	0	0 %100
33	M22	X	1.664	1.664	0 %100
34	M22	Z	0	0	0 %100
35	M23	X	1.664	1.664	0 %100
36	M23	Z	0	0	0 %100
37	MP1A	X	.528	.528	0 %100
38	MP1A	Z	0	0	0 %100
39	MP2A	X	.528	.528	0 %100
40	MP2A	Z	0	0	0 %100
41	MP3A	X	.481	.481	0 %100
42	MP3A	Z	0	0	0 %100
43	MP4A	X	.528	.528	0 %100
44	MP4A	Z	0	0	0 %100
45	MP5A	X	.528	.528	0 %100
46	MP5A	Z	0	0	0 %100
47	MP1C	X	.528	.528	0 %100
48	MP1C	Z	0	0	0 %100
49	MP2C	X	.528	.528	0 %100
50	MP2C	Z	0	0	0 %100
51	MP3C	X	.481	.481	0 %100
52	MP3C	Z	0	0	0 %100
53	MP4C	X	.528	.528	0 %100
54	MP4C	Z	0	0	0 %100
55	MP5C	X	.528	.528	0 %100
56	MP5C	Z	0	0	0 %100
57	MP1B	X	.528	.528	0 %100
58	MP1B	Z	0	0	0 %100
59	MP2B	X	.528	.528	0 %100
60	MP2B	Z	0	0	0 %100
61	MP3B	X	.481	.481	0 %100
62	MP3B	Z	0	0	0 %100
63	MP4B	X	.528	.528	0 %100
64	MP4B	Z	0	0	0 %100
65	MP5B	X	.528	.528	0 %100
66	MP5B	Z	0	0	0 %100
67	M55	X	.431	.431	0 %100
68	M55	Z	0	0	0 %100
69	M58	X	0	0	0 %100
70	M58	Z	0	0	0 %100
71	M72	X	.613	.613	0 %100
72	M72	Z	0	0	0 %100
73	M73	X	.613	.613	0 %100
74	M73	Z	0	0	0 %100
75	M74	X	0	0	0 %100
76	M74	Z	0	0	0 %100
77	M73A	X	.479	.479	0 %100
78	M73A	Z	0	0	0 %100
79	M74A	X	.479	.479	0 %100
80	M74A	Z	0	0	0 %100
81	M57	X	.431	.431	0 %100
82	M57	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, %]
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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.%]
1	M1	X	.574	.574	0	%100
2	M1	Z	.332	.332	0	%100
3	M4	X	.246	.246	0	%100
4	M4	Z	.142	.142	0	%100
5	M31A	X	.241	.241	0	%100
6	M31A	Z	.139	.139	0	%100
7	M33	X	.371	.371	0	%100
8	M33	Z	.214	.214	0	%100
9	M8	X	.574	.574	0	%100
10	M8	Z	.332	.332	0	%100
11	M10	X	.246	.246	0	%100
12	M10	Z	.142	.142	0	%100
13	M12	X	.241	.241	0	%100
14	M12	Z	.139	.139	0	%100
15	M13	X	.371	.371	0	%100
16	M13	Z	.214	.214	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	0	0	0	%100
19	M17	X	.982	.982	0	%100
20	M17	Z	.567	.567	0	%100
21	M18	X	.241	.241	0	%100
22	M18	Z	.139	.139	0	%100
23	M19	X	.962	.962	0	%100
24	M19	Z	.555	.555	0	%100
25	M20	X	.962	.962	0	%100
26	M20	Z	.555	.555	0	%100
27	M21	X	.241	.241	0	%100
28	M21	Z	.139	.139	0	%100
29	M22A	X	1.484	1.484	0	%100
30	M22A	Z	.857	.857	0	%100
31	M21A	X	.48	.48	0	%100
32	M21A	Z	.277	.277	0	%100
33	M22	X	.48	.48	0	%100
34	M22	Z	.277	.277	0	%100
35	M23	X	1.921	1.921	0	%100
36	M23	Z	1.109	1.109	0	%100
37	MP1A	X	.457	.457	0	%100
38	MP1A	Z	.264	.264	0	%100
39	MP2A	X	.457	.457	0	%100
40	MP2A	Z	.264	.264	0	%100
41	MP3A	X	.416	.416	0	%100
42	MP3A	Z	.24	.24	0	%100
43	MP4A	X	.457	.457	0	%100
44	MP4A	Z	.264	.264	0	%100
45	MP5A	X	.457	.457	0	%100
46	MP5A	Z	.264	.264	0	%100
47	MP1C	X	.457	.457	0	%100
48	MP1C	Z	.264	.264	0	%100
49	MP2C	X	.457	.457	0	%100
50	MP2C	Z	.264	.264	0	%100
51	MP3C	X	.416	.416	0	%100
52	MP3C	Z	.24	.24	0	%100
53	MP4C	X	.457	.457	0	%100
54	MP4C	Z	.264	.264	0	%100
55	MP5C	X	.457	.457	0	%100
56	MP5C	Z	.264	.264	0	%100
57	MP1B	X	.457	.457	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	MP1B	Z	.264	.264	0	%100
59	MP2B	X	.457	.457	0	%100
60	MP2B	Z	.264	.264	0	%100
61	MP3B	X	.416	.416	0	%100
62	MP3B	Z	.24	.24	0	%100
63	MP4B	X	.457	.457	0	%100
64	MP4B	Z	.264	.264	0	%100
65	MP5B	X	.457	.457	0	%100
66	MP5B	Z	.264	.264	0	%100
67	M55	X	.374	.374	0	%100
68	M55	Z	.216	.216	0	%100
69	M58	X	.138	.138	0	%100
70	M58	Z	.08	.08	0	%100
71	M72	X	.177	.177	0	%100
72	M72	Z	.102	.102	0	%100
73	M73	X	.708	.708	0	%100
74	M73	Z	.409	.409	0	%100
75	M74	X	.177	.177	0	%100
76	M74	Z	.102	.102	0	%100
77	M73A	X	.138	.138	0	%100
78	M73A	Z	.08	.08	0	%100
79	M74A	X	.553	.553	0	%100
80	M74A	Z	.319	.319	0	%100
81	M57	X	.374	.374	0	%100
82	M57	Z	.216	.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.111	.111	0	%100
2	M1	Z	.191	.191	0	%100
3	M4	X	.425	.425	0	%100
4	M4	Z	.737	.737	0	%100
5	M31A	X	.417	.417	0	%100
6	M31A	Z	.722	.722	0	%100
7	M33	X	.642	.642	0	%100
8	M33	Z	1.113	1.113	0	%100
9	M8	X	.442	.442	0	%100
10	M8	Z	.766	.766	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	.111	.111	0	%100
18	M15	Z	.191	.191	0	%100
19	M17	X	.425	.425	0	%100
20	M17	Z	.737	.737	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	.417	.417	0	%100
24	M19	Z	.722	.722	0	%100
25	M20	X	.417	.417	0	%100
26	M20	Z	.722	.722	0	%100
27	M21	X	.417	.417	0	%100
28	M21	Z	.722	.722	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	M22A	X	.642	.642	0 %100
30	M22A	Z	1.113	1.113	0 %100
31	M21A	X	.832	.832	0 %100
32	M21A	Z	1.441	1.441	0 %100
33	M22	X	0	0	0 %100
34	M22	Z	0	0	0 %100
35	M23	X	.832	.832	0 %100
36	M23	Z	1.441	1.441	0 %100
37	MP1A	X	.264	.264	0 %100
38	MP1A	Z	.457	.457	0 %100
39	MP2A	X	.264	.264	0 %100
40	MP2A	Z	.457	.457	0 %100
41	MP3A	X	.24	.24	0 %100
42	MP3A	Z	.416	.416	0 %100
43	MP4A	X	.264	.264	0 %100
44	MP4A	Z	.457	.457	0 %100
45	MP5A	X	.264	.264	0 %100
46	MP5A	Z	.457	.457	0 %100
47	MP1C	X	.264	.264	0 %100
48	MP1C	Z	.457	.457	0 %100
49	MP2C	X	.264	.264	0 %100
50	MP2C	Z	.457	.457	0 %100
51	MP3C	X	.24	.24	0 %100
52	MP3C	Z	.416	.416	0 %100
53	MP4C	X	.264	.264	0 %100
54	MP4C	Z	.457	.457	0 %100
55	MP5C	X	.264	.264	0 %100
56	MP5C	Z	.457	.457	0 %100
57	MP1B	X	.264	.264	0 %100
58	MP1B	Z	.457	.457	0 %100
59	MP2B	X	.264	.264	0 %100
60	MP2B	Z	.457	.457	0 %100
61	MP3B	X	.24	.24	0 %100
62	MP3B	Z	.416	.416	0 %100
63	MP4B	X	.264	.264	0 %100
64	MP4B	Z	.457	.457	0 %100
65	MP5B	X	.264	.264	0 %100
66	MP5B	Z	.457	.457	0 %100
67	M55	X	.216	.216	0 %100
68	M55	Z	.374	.374	0 %100
69	M58	X	.24	.24	0 %100
70	M58	Z	.415	.415	0 %100
71	M72	X	0	0	0 %100
72	M72	Z	0	0	0 %100
73	M73	X	.307	.307	0 %100
74	M73	Z	.531	.531	0 %100
75	M74	X	.307	.307	0 %100
76	M74	Z	.531	.531	0 %100
77	M73A	X	0	0	0 %100
78	M73A	Z	0	0	0 %100
79	M74A	X	.24	.24	0 %100
80	M74A	Z	.415	.415	0 %100
81	M57	X	.216	.216	0 %100
82	M57	Z	.374	.374	0 %100

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



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

Oct 7, 2021
 9:33 AM
 Checked By: _____

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.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	1.134	1.134	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	1.111	1.111	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	1.713	1.713	0	%100
9	M8	X	0	0	0	%100
10	M8	Z	.663	.663	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	.283	.283	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	.278	.278	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	.428	.428	0	%100
17	M15	X	0	0	0	%100
18	M15	Z	.663	.663	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	.283	.283	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	.278	.278	0	%100
23	M19	X	0	0	0	%100
24	M19	Z	.278	.278	0	%100
25	M20	X	0	0	0	%100
26	M20	Z	.278	.278	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	1.111	1.111	0	%100
29	M22A	X	0	0	0	%100
30	M22A	Z	.428	.428	0	%100
31	M21A	X	0	0	0	%100
32	M21A	Z	2.219	2.219	0	%100
33	M22	X	0	0	0	%100
34	M22	Z	.555	.555	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	.555	.555	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	.528	.528	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	.528	.528	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	.481	.481	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	.528	.528	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	.528	.528	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	.528	.528	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	.528	.528	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	.481	.481	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	.528	.528	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	.528	.528	0	%100
57	MP1B	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	MP1B	Z	.528	.528	0 %100
59	MP2B	X	0	0	0 %100
60	MP2B	Z	.528	.528	0 %100
61	MP3B	X	0	0	0 %100
62	MP3B	Z	.481	.481	0 %100
63	MP4B	X	0	0	0 %100
64	MP4B	Z	.528	.528	0 %100
65	MP5B	X	0	0	0 %100
66	MP5B	Z	.528	.528	0 %100
67	M55	X	0	0	0 %100
68	M55	Z	.431	.431	0 %100
69	M58	X	0	0	0 %100
70	M58	Z	.639	.639	0 %100
71	M72	X	0	0	0 %100
72	M72	Z	.204	.204	0 %100
73	M73	X	0	0	0 %100
74	M73	Z	.204	.204	0 %100
75	M74	X	0	0	0 %100
76	M74	Z	.818	.818	0 %100
77	M73A	X	0	0	0 %100
78	M73A	Z	.16	.16	0 %100
79	M74A	X	0	0	0 %100
80	M74A	Z	.16	.16	0 %100
81	M57	X	0	0	0 %100
82	M57	Z	.431	.431	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.111	-.111	0 %100
2	M1	Z	.191	.191	0 %100
3	M4	X	-.425	-.425	0 %100
4	M4	Z	.737	.737	0 %100
5	M31A	X	-.417	-.417	0 %100
6	M31A	Z	.722	.722	0 %100
7	M33	X	-.642	-.642	0 %100
8	M33	Z	1.113	1.113	0 %100
9	M8	X	-.111	-.111	0 %100
10	M8	Z	.191	.191	0 %100
11	M10	X	-.425	-.425	0 %100
12	M10	Z	.737	.737	0 %100
13	M12	X	-.417	-.417	0 %100
14	M12	Z	.722	.722	0 %100
15	M13	X	-.642	-.642	0 %100
16	M13	Z	1.113	1.113	0 %100
17	M15	X	-.442	-.442	0 %100
18	M15	Z	.766	.766	0 %100
19	M17	X	0	0	0 %100
20	M17	Z	0	0	0 %100
21	M18	X	-.417	-.417	0 %100
22	M18	Z	.722	.722	0 %100
23	M19	X	0	0	0 %100
24	M19	Z	0	0	0 %100
25	M20	X	0	0	0 %100
26	M20	Z	0	0	0 %100
27	M21	X	-.417	-.417	0 %100
28	M21	Z	.722	.722	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
29	M22A	X	0	0	0	%100
30	M22A	Z	0	0	0	%100
31	M21A	X	-.832	-.832	0	%100
32	M21A	Z	1.441	1.441	0	%100
33	M22	X	-.832	-.832	0	%100
34	M22	Z	1.441	1.441	0	%100
35	M23	X	0	0	0	%100
36	M23	Z	0	0	0	%100
37	MP1A	X	-.264	-.264	0	%100
38	MP1A	Z	.457	.457	0	%100
39	MP2A	X	-.264	-.264	0	%100
40	MP2A	Z	.457	.457	0	%100
41	MP3A	X	-.24	-.24	0	%100
42	MP3A	Z	.416	.416	0	%100
43	MP4A	X	-.264	-.264	0	%100
44	MP4A	Z	.457	.457	0	%100
45	MP5A	X	-.264	-.264	0	%100
46	MP5A	Z	.457	.457	0	%100
47	MP1C	X	-.264	-.264	0	%100
48	MP1C	Z	.457	.457	0	%100
49	MP2C	X	-.264	-.264	0	%100
50	MP2C	Z	.457	.457	0	%100
51	MP3C	X	-.24	-.24	0	%100
52	MP3C	Z	.416	.416	0	%100
53	MP4C	X	-.264	-.264	0	%100
54	MP4C	Z	.457	.457	0	%100
55	MP5C	X	-.264	-.264	0	%100
56	MP5C	Z	.457	.457	0	%100
57	MP1B	X	-.264	-.264	0	%100
58	MP1B	Z	.457	.457	0	%100
59	MP2B	X	-.264	-.264	0	%100
60	MP2B	Z	.457	.457	0	%100
61	MP3B	X	-.24	-.24	0	%100
62	MP3B	Z	.416	.416	0	%100
63	MP4B	X	-.264	-.264	0	%100
64	MP4B	Z	.457	.457	0	%100
65	MP5B	X	-.264	-.264	0	%100
66	MP5B	Z	.457	.457	0	%100
67	M55	X	-.216	-.216	0	%100
68	M55	Z	.374	.374	0	%100
69	M58	X	-.24	-.24	0	%100
70	M58	Z	.415	.415	0	%100
71	M72	X	-.307	-.307	0	%100
72	M72	Z	.531	.531	0	%100
73	M73	X	0	0	0	%100
74	M73	Z	0	0	0	%100
75	M74	X	-.307	-.307	0	%100
76	M74	Z	.531	.531	0	%100
77	M73A	X	-.24	-.24	0	%100
78	M73A	Z	.415	.415	0	%100
79	M74A	X	0	0	0	%100
80	M74A	Z	0	0	0	%100
81	M57	X	-.216	-.216	0	%100
82	M57	Z	.374	.374	0	%100

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



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.%]
1	M1	X	-.574	-.574	0 %100
2	M1	Z	.332	.332	0 %100
3	M4	X	-.246	-.246	0 %100
4	M4	Z	.142	.142	0 %100
5	M31A	X	-.241	-.241	0 %100
6	M31A	Z	.139	.139	0 %100
7	M33	X	-.371	-.371	0 %100
8	M33	Z	.214	.214	0 %100
9	M8	X	0	0	0 %100
10	M8	Z	0	0	0 %100
11	M10	X	-.982	-.982	0 %100
12	M10	Z	.567	.567	0 %100
13	M12	X	-.962	-.962	0 %100
14	M12	Z	.555	.555	0 %100
15	M13	X	-1.484	-1.484	0 %100
16	M13	Z	.857	.857	0 %100
17	M15	X	-.574	-.574	0 %100
18	M15	Z	.332	.332	0 %100
19	M17	X	-.246	-.246	0 %100
20	M17	Z	.142	.142	0 %100
21	M18	X	-.962	-.962	0 %100
22	M18	Z	.555	.555	0 %100
23	M19	X	-.241	-.241	0 %100
24	M19	Z	.139	.139	0 %100
25	M20	X	-.241	-.241	0 %100
26	M20	Z	.139	.139	0 %100
27	M21	X	-.241	-.241	0 %100
28	M21	Z	.139	.139	0 %100
29	M22A	X	-.371	-.371	0 %100
30	M22A	Z	.214	.214	0 %100
31	M21A	X	-.48	-.48	0 %100
32	M21A	Z	.277	.277	0 %100
33	M22	X	-1.921	-1.921	0 %100
34	M22	Z	1.109	1.109	0 %100
35	M23	X	-.48	-.48	0 %100
36	M23	Z	.277	.277	0 %100
37	MP1A	X	-.457	-.457	0 %100
38	MP1A	Z	.264	.264	0 %100
39	MP2A	X	-.457	-.457	0 %100
40	MP2A	Z	.264	.264	0 %100
41	MP3A	X	-.416	-.416	0 %100
42	MP3A	Z	.24	.24	0 %100
43	MP4A	X	-.457	-.457	0 %100
44	MP4A	Z	.264	.264	0 %100
45	MP5A	X	-.457	-.457	0 %100
46	MP5A	Z	.264	.264	0 %100
47	MP1C	X	-.457	-.457	0 %100
48	MP1C	Z	.264	.264	0 %100
49	MP2C	X	-.457	-.457	0 %100
50	MP2C	Z	.264	.264	0 %100
51	MP3C	X	-.416	-.416	0 %100
52	MP3C	Z	.24	.24	0 %100
53	MP4C	X	-.457	-.457	0 %100
54	MP4C	Z	.264	.264	0 %100
55	MP5C	X	-.457	-.457	0 %100
56	MP5C	Z	.264	.264	0 %100
57	MP1B	X	-.457	-.457	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	MP1B	Z	.264	.264	0	%100
59	MP2B	X	-.457	-.457	0	%100
60	MP2B	Z	.264	.264	0	%100
61	MP3B	X	-.416	-.416	0	%100
62	MP3B	Z	.24	.24	0	%100
63	MP4B	X	-.457	-.457	0	%100
64	MP4B	Z	.264	.264	0	%100
65	MP5B	X	-.457	-.457	0	%100
66	MP5B	Z	.264	.264	0	%100
67	M55	X	-.374	-.374	0	%100
68	M55	Z	.216	.216	0	%100
69	M58	X	-.138	-.138	0	%100
70	M58	Z	.08	.08	0	%100
71	M72	X	-.708	-.708	0	%100
72	M72	Z	.409	.409	0	%100
73	M73	X	-.177	-.177	0	%100
74	M73	Z	.102	.102	0	%100
75	M74	X	-.177	-.177	0	%100
76	M74	Z	.102	.102	0	%100
77	M73A	X	-.553	-.553	0	%100
78	M73A	Z	.319	.319	0	%100
79	M74A	X	-.138	-.138	0	%100
80	M74A	Z	.08	.08	0	%100
81	M57	X	-.374	-.374	0	%100
82	M57	Z	.216	.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.884	-.884	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M31A	X	0	0	0	%100
6	M31A	Z	0	0	0	%100
7	M33	X	0	0	0	%100
8	M33	Z	0	0	0	%100
9	M8	X	-.221	-.221	0	%100
10	M8	Z	0	0	0	%100
11	M10	X	-.85	-.85	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	-.833	-.833	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	-1.285	-1.285	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	-.221	-.221	0	%100
18	M15	Z	0	0	0	%100
19	M17	X	-.85	-.85	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	-.833	-.833	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	-.833	-.833	0	%100
24	M19	Z	0	0	0	%100
25	M20	X	-.833	-.833	0	%100
26	M20	Z	0	0	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	M22A	X	-1.285	-1.285	0 %100
30	M22A	Z	0	0	0 %100
31	M21A	X	0	0	0 %100
32	M21A	Z	0	0	0 %100
33	M22	X	-1.664	-1.664	0 %100
34	M22	Z	0	0	0 %100
35	M23	X	-1.664	-1.664	0 %100
36	M23	Z	0	0	0 %100
37	MP1A	X	-.528	-.528	0 %100
38	MP1A	Z	0	0	0 %100
39	MP2A	X	-.528	-.528	0 %100
40	MP2A	Z	0	0	0 %100
41	MP3A	X	-.481	-.481	0 %100
42	MP3A	Z	0	0	0 %100
43	MP4A	X	-.528	-.528	0 %100
44	MP4A	Z	0	0	0 %100
45	MP5A	X	-.528	-.528	0 %100
46	MP5A	Z	0	0	0 %100
47	MP1C	X	-.528	-.528	0 %100
48	MP1C	Z	0	0	0 %100
49	MP2C	X	-.528	-.528	0 %100
50	MP2C	Z	0	0	0 %100
51	MP3C	X	-.481	-.481	0 %100
52	MP3C	Z	0	0	0 %100
53	MP4C	X	-.528	-.528	0 %100
54	MP4C	Z	0	0	0 %100
55	MP5C	X	-.528	-.528	0 %100
56	MP5C	Z	0	0	0 %100
57	MP1B	X	-.528	-.528	0 %100
58	MP1B	Z	0	0	0 %100
59	MP2B	X	-.528	-.528	0 %100
60	MP2B	Z	0	0	0 %100
61	MP3B	X	-.481	-.481	0 %100
62	MP3B	Z	0	0	0 %100
63	MP4B	X	-.528	-.528	0 %100
64	MP4B	Z	0	0	0 %100
65	MP5B	X	-.528	-.528	0 %100
66	MP5B	Z	0	0	0 %100
67	M55	X	-.431	-.431	0 %100
68	M55	Z	0	0	0 %100
69	M58	X	0	0	0 %100
70	M58	Z	0	0	0 %100
71	M72	X	-.613	-.613	0 %100
72	M72	Z	0	0	0 %100
73	M73	X	-.613	-.613	0 %100
74	M73	Z	0	0	0 %100
75	M74	X	0	0	0 %100
76	M74	Z	0	0	0 %100
77	M73A	X	-.479	-.479	0 %100
78	M73A	Z	0	0	0 %100
79	M74A	X	-.479	-.479	0 %100
80	M74A	Z	0	0	0 %100
81	M57	X	-.431	-.431	0 %100
82	M57	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, %]
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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.%]
1	M1	X	-.574	-.574	0 %100
2	M1	Z	-.332	-.332	0 %100
3	M4	X	-.246	-.246	0 %100
4	M4	Z	-.142	-.142	0 %100
5	M31A	X	-.241	-.241	0 %100
6	M31A	Z	-.139	-.139	0 %100
7	M33	X	-.371	-.371	0 %100
8	M33	Z	-.214	-.214	0 %100
9	M8	X	-.574	-.574	0 %100
10	M8	Z	-.332	-.332	0 %100
11	M10	X	-.246	-.246	0 %100
12	M10	Z	-.142	-.142	0 %100
13	M12	X	-.241	-.241	0 %100
14	M12	Z	-.139	-.139	0 %100
15	M13	X	-.371	-.371	0 %100
16	M13	Z	-.214	-.214	0 %100
17	M15	X	0	0	0 %100
18	M15	Z	0	0	0 %100
19	M17	X	-.982	-.982	0 %100
20	M17	Z	-.567	-.567	0 %100
21	M18	X	-.241	-.241	0 %100
22	M18	Z	-.139	-.139	0 %100
23	M19	X	-.962	-.962	0 %100
24	M19	Z	-.555	-.555	0 %100
25	M20	X	-.962	-.962	0 %100
26	M20	Z	-.555	-.555	0 %100
27	M21	X	-.241	-.241	0 %100
28	M21	Z	-.139	-.139	0 %100
29	M22A	X	-1.484	-1.484	0 %100
30	M22A	Z	-.857	-.857	0 %100
31	M21A	X	-.48	-.48	0 %100
32	M21A	Z	-.277	-.277	0 %100
33	M22	X	-.48	-.48	0 %100
34	M22	Z	-.277	-.277	0 %100
35	M23	X	-1.921	-1.921	0 %100
36	M23	Z	-1.109	-1.109	0 %100
37	MP1A	X	-.457	-.457	0 %100
38	MP1A	Z	-.264	-.264	0 %100
39	MP2A	X	-.457	-.457	0 %100
40	MP2A	Z	-.264	-.264	0 %100
41	MP3A	X	-.416	-.416	0 %100
42	MP3A	Z	-.24	-.24	0 %100
43	MP4A	X	-.457	-.457	0 %100
44	MP4A	Z	-.264	-.264	0 %100
45	MP5A	X	-.457	-.457	0 %100
46	MP5A	Z	-.264	-.264	0 %100
47	MP1C	X	-.457	-.457	0 %100
48	MP1C	Z	-.264	-.264	0 %100
49	MP2C	X	-.457	-.457	0 %100
50	MP2C	Z	-.264	-.264	0 %100
51	MP3C	X	-.416	-.416	0 %100
52	MP3C	Z	-.24	-.24	0 %100
53	MP4C	X	-.457	-.457	0 %100
54	MP4C	Z	-.264	-.264	0 %100
55	MP5C	X	-.457	-.457	0 %100
56	MP5C	Z	-.264	-.264	0 %100
57	MP1B	X	-.457	-.457	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
58	MP1B	Z	-.264	-.264	0	%100
59	MP2B	X	-.457	-.457	0	%100
60	MP2B	Z	-.264	-.264	0	%100
61	MP3B	X	-.416	-.416	0	%100
62	MP3B	Z	-.24	-.24	0	%100
63	MP4B	X	-.457	-.457	0	%100
64	MP4B	Z	-.264	-.264	0	%100
65	MP5B	X	-.457	-.457	0	%100
66	MP5B	Z	-.264	-.264	0	%100
67	M55	X	-.374	-.374	0	%100
68	M55	Z	-.216	-.216	0	%100
69	M58	X	-.138	-.138	0	%100
70	M58	Z	-.08	-.08	0	%100
71	M72	X	-.177	-.177	0	%100
72	M72	Z	-.102	-.102	0	%100
73	M73	X	-.708	-.708	0	%100
74	M73	Z	-.409	-.409	0	%100
75	M74	X	-.177	-.177	0	%100
76	M74	Z	-.102	-.102	0	%100
77	M73A	X	-.138	-.138	0	%100
78	M73A	Z	-.08	-.08	0	%100
79	M74A	X	-.553	-.553	0	%100
80	M74A	Z	-.319	-.319	0	%100
81	M57	X	-.374	-.374	0	%100
82	M57	Z	-.216	-.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.111	-.111	0	%100
2	M1	Z	-.191	-.191	0	%100
3	M4	X	-.425	-.425	0	%100
4	M4	Z	-.737	-.737	0	%100
5	M31A	X	-.417	-.417	0	%100
6	M31A	Z	-.722	-.722	0	%100
7	M33	X	-.642	-.642	0	%100
8	M33	Z	-1.113	-1.113	0	%100
9	M8	X	-.442	-.442	0	%100
10	M8	Z	-.766	-.766	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M12	X	0	0	0	%100
14	M12	Z	0	0	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M15	X	-.111	-.111	0	%100
18	M15	Z	-.191	-.191	0	%100
19	M17	X	-.425	-.425	0	%100
20	M17	Z	-.737	-.737	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100
23	M19	X	-.417	-.417	0	%100
24	M19	Z	-.722	-.722	0	%100
25	M20	X	-.417	-.417	0	%100
26	M20	Z	-.722	-.722	0	%100
27	M21	X	-.417	-.417	0	%100
28	M21	Z	-.722	-.722	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.%]
29	M22A	X	-.642	-.642	0 %100
30	M22A	Z	-1.113	-1.113	0 %100
31	M21A	X	-.832	-.832	0 %100
32	M21A	Z	-1.441	-1.441	0 %100
33	M22	X	0	0	0 %100
34	M22	Z	0	0	0 %100
35	M23	X	-.832	-.832	0 %100
36	M23	Z	-1.441	-1.441	0 %100
37	MP1A	X	-.264	-.264	0 %100
38	MP1A	Z	-.457	-.457	0 %100
39	MP2A	X	-.264	-.264	0 %100
40	MP2A	Z	-.457	-.457	0 %100
41	MP3A	X	-.24	-.24	0 %100
42	MP3A	Z	-.416	-.416	0 %100
43	MP4A	X	-.264	-.264	0 %100
44	MP4A	Z	-.457	-.457	0 %100
45	MP5A	X	-.264	-.264	0 %100
46	MP5A	Z	-.457	-.457	0 %100
47	MP1C	X	-.264	-.264	0 %100
48	MP1C	Z	-.457	-.457	0 %100
49	MP2C	X	-.264	-.264	0 %100
50	MP2C	Z	-.457	-.457	0 %100
51	MP3C	X	-.24	-.24	0 %100
52	MP3C	Z	-.416	-.416	0 %100
53	MP4C	X	-.264	-.264	0 %100
54	MP4C	Z	-.457	-.457	0 %100
55	MP5C	X	-.264	-.264	0 %100
56	MP5C	Z	-.457	-.457	0 %100
57	MP1B	X	-.264	-.264	0 %100
58	MP1B	Z	-.457	-.457	0 %100
59	MP2B	X	-.264	-.264	0 %100
60	MP2B	Z	-.457	-.457	0 %100
61	MP3B	X	-.24	-.24	0 %100
62	MP3B	Z	-.416	-.416	0 %100
63	MP4B	X	-.264	-.264	0 %100
64	MP4B	Z	-.457	-.457	0 %100
65	MP5B	X	-.264	-.264	0 %100
66	MP5B	Z	-.457	-.457	0 %100
67	M55	X	-.216	-.216	0 %100
68	M55	Z	-.374	-.374	0 %100
69	M58	X	-.24	-.24	0 %100
70	M58	Z	-.415	-.415	0 %100
71	M72	X	0	0	0 %100
72	M72	Z	0	0	0 %100
73	M73	X	-.307	-.307	0 %100
74	M73	Z	-.531	-.531	0 %100
75	M74	X	-.307	-.307	0 %100
76	M74	Z	-.531	-.531	0 %100
77	M73A	X	0	0	0 %100
78	M73A	Z	0	0	0 %100
79	M74A	X	-.24	-.24	0 %100
80	M74A	Z	-.415	-.415	0 %100
81	M57	X	-.216	-.216	0 %100
82	M57	Z	-.374	-.374	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.%]



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.%,]
1	M21A	Y	-5.577	-8.356	0	1.246
2	M21A	Y	-8.356	-11.665	1.246	2.492
3	M21A	Y	-11.665	-18.324	2.492	3.738
4	M21A	Y	-18.324	-19.213	3.738	4.983
5	M21A	Y	-19.213	-11.511	4.983	6.229
6	M23	Y	-15.425	-19.086	6.229	7.475
7	M23	Y	-19.086	-19.426	7.475	8.721
8	M23	Y	-19.426	-16.096	8.721	9.967
9	M23	Y	-16.096	-9.189	9.967	11.212
10	M23	Y	-9.189	-.541	11.212	12.458
11	M22	Y	-11.561	-19.234	6.229	7.475
12	M22	Y	-19.234	-18.32	7.475	8.721
13	M22	Y	-18.32	-11.649	8.721	9.967
14	M22	Y	-11.649	-8.346	9.967	11.212
15	M22	Y	-8.346	-5.581	11.212	12.458
16	M23	Y	-.723	-9.405	0	1.246
17	M23	Y	-9.405	-16.313	1.246	2.492
18	M23	Y	-16.313	-20.489	2.492	3.737
19	M23	Y	-20.489	-19.213	3.737	4.983
20	M23	Y	-19.213	-11.961	4.983	6.229
21	M21A	Y	-11.511	-19.213	6.229	7.475
22	M21A	Y	-19.213	-18.324	7.475	8.721
23	M21A	Y	-18.324	-11.665	8.721	9.967
24	M21A	Y	-11.665	-8.356	9.967	11.213
25	M21A	Y	-8.356	-5.577	11.213	12.458
26	M22	Y	-.541	-9.189	0	1.246
27	M22	Y	-9.189	-16.096	1.246	2.492
28	M22	Y	-16.096	-19.426	2.492	3.737
29	M22	Y	-19.426	-19.086	3.737	4.983
30	M22	Y	-19.086	-15.425	4.983	6.229

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	M21A	Y	-6.817	-10.213	0	1.246
2	M21A	Y	-10.213	-14.257	1.246	2.492
3	M21A	Y	-14.257	-22.396	2.492	3.738
4	M21A	Y	-22.396	-23.483	3.738	4.983
5	M21A	Y	-23.483	-14.069	4.983	6.229
6	M23	Y	-18.853	-23.327	6.229	7.475
7	M23	Y	-23.327	-23.743	7.475	8.721
8	M23	Y	-23.743	-19.672	8.721	9.967
9	M23	Y	-19.672	-11.23	9.967	11.212
10	M23	Y	-11.23	-.661	11.212	12.458
11	M22	Y	-14.13	-23.508	6.229	7.475
12	M22	Y	-23.508	-22.391	7.475	8.721
13	M22	Y	-22.391	-14.237	8.721	9.967
14	M22	Y	-14.237	-10.201	9.967	11.212
15	M22	Y	-10.201	-6.821	11.212	12.458
16	M23	Y	-.883	-11.496	0	1.246
17	M23	Y	-11.496	-19.938	1.246	2.492
18	M23	Y	-19.938	-25.043	2.492	3.737
19	M23	Y	-25.043	-23.483	3.737	4.983
20	M23	Y	-23.483	-14.618	4.983	6.229
21	M21A	Y	-14.118	-23.521	6.229	7.475
22	M21A	Y	-23.521	-22.415	7.475	8.721
23	M21A	Y	-22.415	-14.252	8.721	9.967



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.%]
24	M21A	Y	-14.252	-10.205	9.967	11.213
25	M21A	Y	-10.205	-6.822	11.213	12.458
26	M22	Y	-.669	-11.292	0	1.246
27	M22	Y	-11.292	-19.776	1.246	2.492
28	M22	Y	-19.776	-23.759	2.492	3.737
29	M22	Y	-23.759	-23.191	3.737	4.983
30	M22	Y	-23.191	-18.614	4.983	6.229

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N30	N23	N21	N22	Y	A-B	-.009
2	N106A	N37	N111A	N112A	Y	A-B	-.009
3	N32	N35	N34	N33	Y	A-B	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N30	N23	N21	N22	Y	A-B	-.011
2	N106A	N37	N111A	N112A	Y	A-B	-.011
3	N35	N32	N33	N34	Y	A-B	-.011

Envelope Joint Reactions

	Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N2	max	2296.001	11	3679.816	14	2096.164	2	4.156	1	2.215	5	2.733	4
2		min	-2362.991	5	624.628	8	-2665.605	8	-.926	7	-2.154	11	-.987	10
3	N14	max	2010.608	9	3390.444	20	2432.617	1	.134	1	1.849	12	1.203	3
4		min	-2580.349	3	532.75	2	-2219.956	7	-3.784	19	-1.917	6	-2.986	9
5	N26	max	1252.944	10	878.837	17	696.582	11	.347	11	2.024	8	3.737	17
6		min	-616.701	4	1.041	11	-344.421	5	-1.985	17	-1.989	2	-.507	11
7	Totals:	max	5041.846	10	7406.382	24	5093.554	1						
8		min	-5041.841	4	3487.093	6	-5093.551	7						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
1	M1	HSS4X4X3	.458	0	4	.337	0	y	16	93863.645	106812	12.662	12.662	4...	H3-6
2	M4	PL1/2x4.5	.614	.638	8	.123	1.276	y	1	40319.361	72900	.759	6.834	1...	H1-1b
3	M31A	PL1/2x4.5	.099	.564	24	.043	.564	y	13	64940.524	72900	.759	6.834	1...	H1-1b
4	M33	C6X8.2	.478	2.817	15	.082	2.817	y	14	33533.674	77436	2.108	13.932	1...	H1-1b
5	M8	HSS4X4X3	.468	0	7	.334	0	y	18	93863.645	106812	12.662	12.662	2...	H3-6
6	M10	PL1/2x4.5	.755	.638	2	.137	.638	y	33	40319.361	72900	.759	6.834	2...	H1-1b
7	M12	PL1/2x4.5	.102	0	22	.045	0	y	21	64940.524	72900	.759	6.834	1...	H1-1b
8	M13	C6X8.2	.497	2.817	8	.083	2.817	y	20	33533.674	77436	2.108	13.932	1...	H1-1b
9	M15	HSS4X4X3	.380	0	3	.050	0	y	3	93863.645	106812	12.662	12.662	1...	H1-1b
10	M17	PL1/2x4.5	.505	.638	10	.285	.638	y	17	40319.361	72900	.759	6.834	2...	H1-1b
11	M18	PL1/2x4.5	.142	.564	19	.064	.564	y	20	64940.524	72900	.759	6.834	1...	H1-1b
12	M19	PL1/2x4.5	.076	.564	5	.005	.564	y	8	64940.524	72900	.759	6.834	1...	H1-1b
13	M20	PL1/2x4.5	.081	0	5	.003	0	y	16	64940.524	72900	.759	6.834	1...	H1-1b
14	M21	PL1/2x4.5	.145	0	15	.063	0	y	14	64940.524	72900	.759	6.834	1...	H1-1b
15	M22A	C6X8.2	.063	2.817	11	.006	5.633	y	8	33533.674	77436	2.108	12.178	1...	H1-1b
16	M21A	C6X8.2	.516	5.71	7	.485	6.359	z	7	6944.072	77436	2.108	12.007	1...	H1-1b
17	M22	C6X8.2	.517	6.748	3	.500	6.618	z	10	6944.072	77436	2.108	11.974	1...	H1-1b
18	M23	C6X8.2	.418	5.71	11	.467	6.618	y	6	6944.072	77436	2.108	10.571	1.6	H1-1b
19	MP1A	PIPE_2.0	.251	3.813	9	.090	3.813	9	20866.733	32130	1.872	1.872	2...	H1-1b	



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10106645
 Model Name : 468156-VZW_MT_LO_H

Oct 7, 2021
 9:33 AM
 Checked By: _____

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

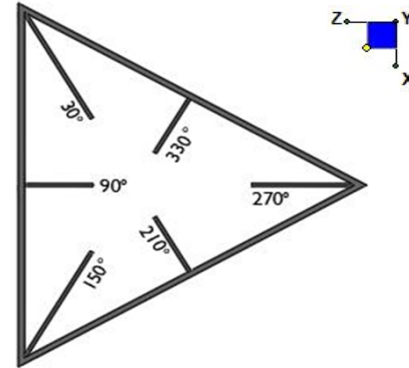
Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc	[...phi*Pnt	[lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
20	MP2A	PIPE 2.0	.233	3.813	9	.082	3.813	8	20866.733	32130	1.872	1.872	2...	H1-1b	
21	MP3A	PIPE 2.0	.255	3.833	3	.118	2.458	5	26521.424	32130	1.872	1.872	1...	H1-1b	
22	MP4A	PIPE 2.0	.234	3.813	4	.119	3.813	2	20866.733	32130	1.872	1.872	2...	H1-1b	
23	MP5A	PIPE 2.0	.192	3.813	12	.073	1.438	4	20866.733	32130	1.872	1.872	2...	H1-1b	
24	MP1C	PIPE 2.0	.191	3.813	5	.101	3.813	5	20866.733	32130	1.872	1.872	2...	H1-1b	
25	MP2C	PIPE 2.0	.191	3.813	5	.112	3.813	3	20866.733	32130	1.872	1.872	2...	H1-1b	
26	MP3C	PIPE 2.0	.296	3.833	11	.130	2.458	11	26521.424	32130	1.872	1.872	1...	H1-1b	
27	MP4C	PIPE 2.0	.267	3.813	12	.089	3.813	10	20866.733	32130	1.872	1.872	2...	H1-1b	
28	MP5C	PIPE 2.0	.232	3.813	8	.069	1.438	12	20866.733	32130	1.872	1.872	1...	H1-1b	
29	MP1B	PIPE 2.0	.253	3.813	1	.105	3.813	1	20866.733	32130	1.872	1.872	2...	H1-1b	
30	MP2B	PIPE 2.0	.247	3.813	2	.099	3.813	12	20866.733	32130	1.872	1.872	2...	H1-1b	
31	MP3B	PIPE 2.0	.278	3.833	7	.077	2.458	7	26521.424	32130	1.872	1.872	1...	H1-1b	
32	MP4B	PIPE 2.0	.296	3.813	8	.105	3.813	6	20866.733	32130	1.872	1.872	2...	H1-1b	
33	MP5B	PIPE 2.0	.243	3.813	9	.077	1.438	8	20866.733	32130	1.872	1.872	2...	H1-1b	
34	M55	PIPE 2.0	.120	2.5	1	.016	2.5	1	28843.414	32130	1.872	1.872	1...	H1-1b	
35	M58	PIPE 2.5	.143	3.125	7	.072	1.563	8	14558.792	50715	3.596	3.596	1...	H1-1b	
36	M72	L3X3X4	.296	2.29	8	.022	2.29	y 7	41539.807	46656	1.688	3.756	2...	H2-1	
37	M73	L3X3X4	.276	2.29	4	.021	2.29	y 3	41539.807	46656	1.688	3.756	2...	H2-1	
38	M74	L3X3X4	.282	2.29	12	.022	2.29	y 11	41539.807	46656	1.688	3.756	2...	H2-1	
39	M73A	PIPE 2.5	.166	3.125	3	.083	6.25	11	14558.792	50715	3.596	3.596	1...	H1-1b	
40	M74A	PIPE 2.5	.149	3.125	11	.072	6.25	7	14558.792	50715	3.596	3.596	1...	H1-1b	
41	M57	PIPE 2.0	.120	2.5	1	.016	2.5	1	28843.414	32130	1.872	1.872	1...	H1-1b	



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N14	30
N2	270
N26	150



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):

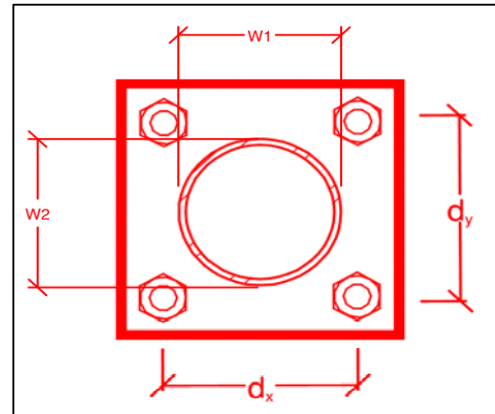
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
6
6
A325N
0.625
18.8
14.0
20.7
12.4
22.8%*
28.1%



*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):

W1 (in):

W2 (in):

Fy (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
11.5
11.5
4
4
36
0.625
4
5.57
2.51
29.5%
45.1%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in) :	8.4
$\Phi * M_{n_{xx}}$ (kip-in) :	36.4
$M_{u_{yy}}$ (kip-in) :	2.3
$\Phi * M_{n_{yy}}$ (kip-in) :	36.4

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to pmisupport@colliersengineering.com

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

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

Base Requirements:

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

Photo Requirements:

- Photos taken at ground level
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation of the modifications.
 - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.

These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.

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

Material Certification:

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

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

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

OR

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

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

Comments:

Certifying Individual:

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

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

Yes No

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

Issue:

1. Install (2) OVP pipes, 36" long P2 STD in the standoff between beta and gamma sectors. Connect to standoff horizontal using crossover plate (VZWSMART, Part #: MSK6). Install (2) proposed OVPs onto the same pipes.

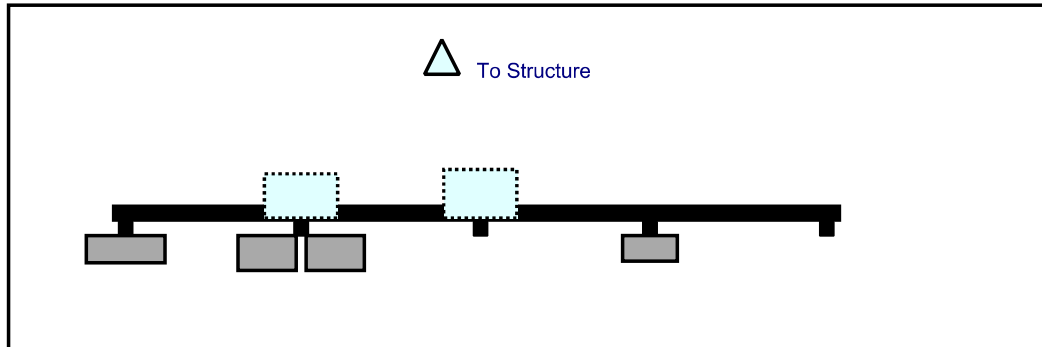
Response:

Contractor certifies that the climbing facility / safety climb was not damaged during installation:

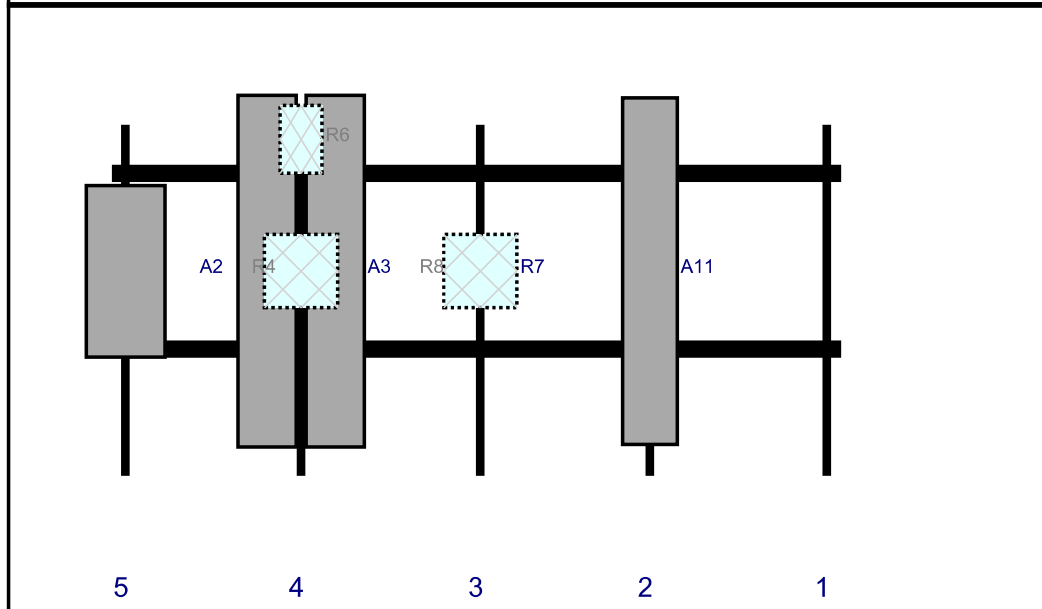
Yes No

Comments:

Plan View

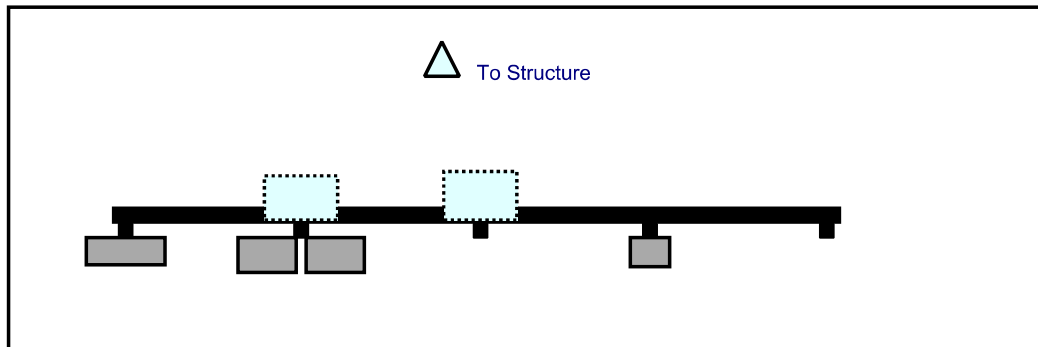


Front View
Looking at Structure

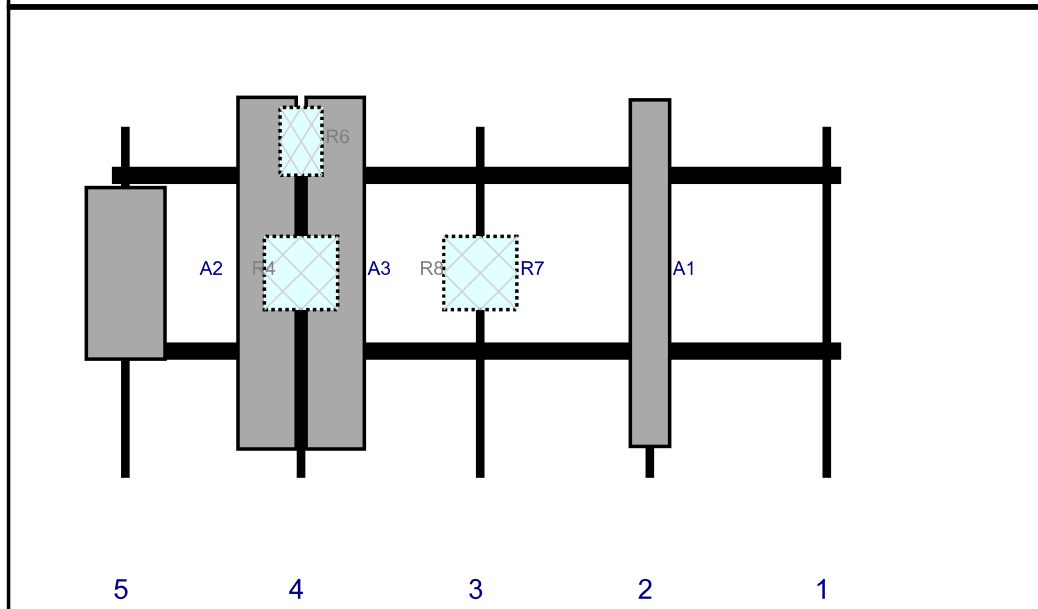


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A11	BXA-70063-6CF	71	11.2	110.25	2	a	Front	30	0	Retained	04/03/2021
R7	RF4439d-25A	15	15	75.5	3	a	Behind	30	0	Added	
A2	NHH-65B-R2B	72	11.9	38.75	4	a	Front	30	-7	Added	
A3	NHSS-65B-R2BT0	72	11.9	38.75	4	a	Front	30	7	Added	
R6	CBRS RRRH - RT4401-48A	13.9	8.6	38.75	4	a	Behind	3	0	Added	
R8	RF4440d-13A	15	15	38.75	4	a	Behind	30	0	Added	
R4	MT6407-77A	35.1	16.1	2.75	5	a	Front	30	0	Added	

Plan View

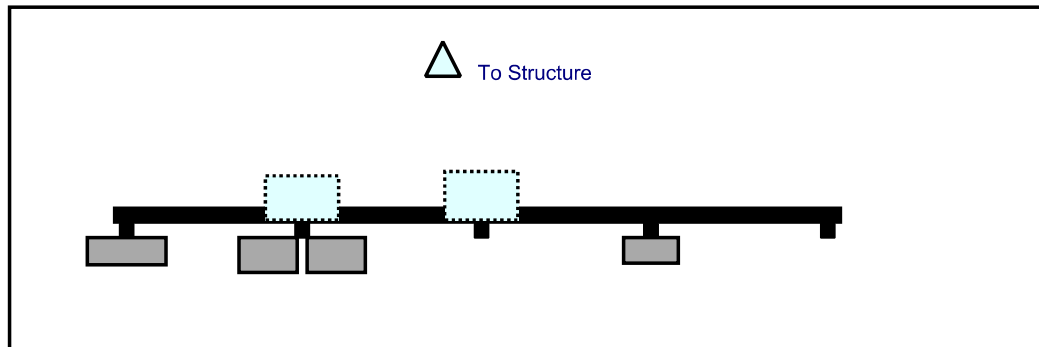


Front View
Looking at Structure

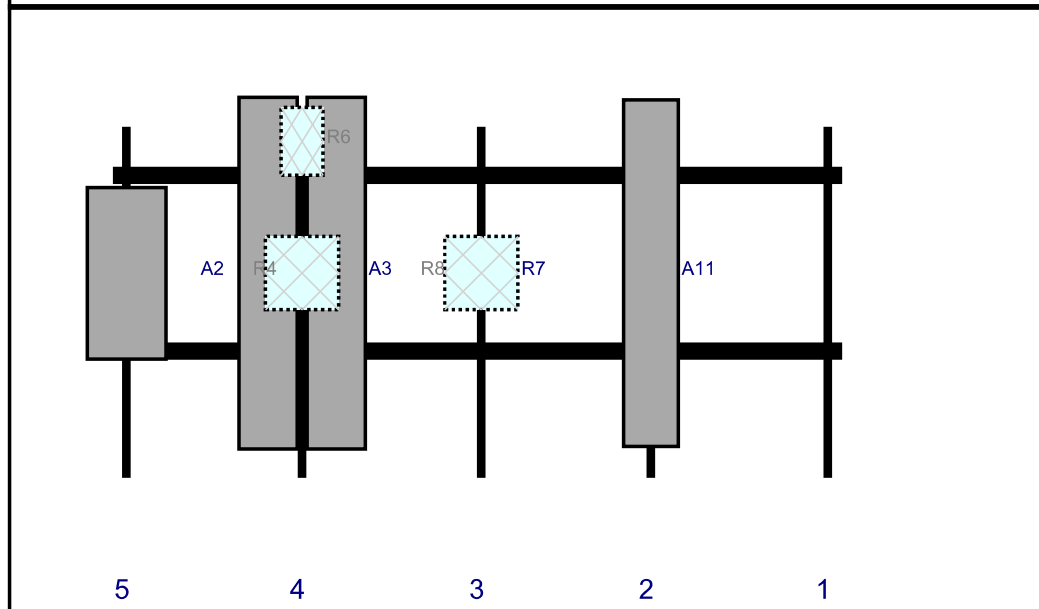


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	BXA-70080-6CF-EDIN-0	71	8	110.25	2	a	Front	30	0	Retained	04/03/2021
R7	RF4439d-25A	15	15	75.5	3	a	Behind	30	0	Added	
A2	NHH-65B-R2B	72	11.9	38.75	4	a	Front	30	-7	Added	
A3	NHSS-65B-R2BT0	72	11.9	38.75	4	a	Front	30	7	Added	
R6	CBRS RRRH - RT4401-48A	13.9	8.6	38.75	4	a	Behind	3	0	Added	
R8	RF4440d-13A	15	15	38.75	4	a	Behind	30	0	Added	
R4	MT6407-77A	35.1	16.1	2.75	5	a	Front	30	0	Added	

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A11	BXA-70063-6CF	71	11.2	110.25	2	a	Front	30	0	Retained	04/03/2021
R7	RF4439d-25A	15	15	75.5	3	a	Behind	30	0	Added	
A2	NHH-65B-R2B	72	11.9	38.75	4	a	Front	30	-7	Added	
A3	NHSS-65B-R2BT0	72	11.9	38.75	4	a	Front	30	7	Added	
R6	CBRS RRRH - RT4401-48A	13.9	8.6	38.75	4	a	Behind	3	0	Added	
R8	RF4440d-13A	15	15	38.75	4	a	Behind	30	0	Added	
R4	MT6407-77A	35.1	16.1	2.75	5	a	Front	30	0	Added	

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID: 468156-VZW / MARLBOROUGH EAST CT
Site Name: MARLBOROUGH EAST CT
Carrier Name: Verizon Wireless
Address: 175 South Main Street
Marlborough, Connecticut 06447
Hartford County
Latitude: 41.615833°
Longitude: -72.436667°

Structure Information

Tower Type: 170-Ft Monopole
Mount Type: 12.46-Ft Platform

To Whom It May Concern,

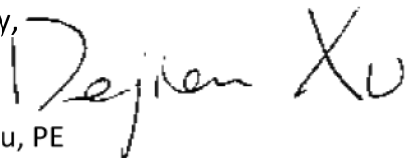
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

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

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

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

Sincerely,



Dejian Xu, PE
Technical Manager

PROJECT NOTES

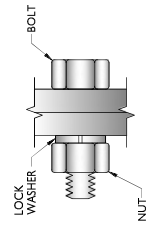
- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, REGULATIONS, ORDINANCES, AND AGENCIES, UTILITIES COMPANIES OR OTHER GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF THE CONSTRUCTION OF THE FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- IN CASE THE SELLER MAY BE ACTIVE, ALL SAFETY REGULATIONS MUST BE STRICTLY ENFORCED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT PERSONNEL AND EQUIPMENT FROM THE RISK OF COLLAPSE, OVERHEATING, OR RADIATION. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL PROTECTIVE EQUIPMENT IS REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- NO NOISE, SHOCK, VIBRATION OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
- GENERAL NOTES
 - 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.
 - CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING UTILITIES AND 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.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK. ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 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.
 - IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE DRAWINGS WILL BE PERFORMED BY A QUALIFIED WORKER WITH TOWER CONSTRUCTION EXPERIENCE.
 - THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
 - 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 CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND STANDARDS (LATEST EDITION), OSHA AND GENERAL INDUSTRY ANSITIA-332 (LATEST EDITION), OSHA AND GENERAL INDUSTRY ANSITIA-332 (LATEST EDITION). ALL RIGGING PLANS SHALL ADHERE TO ANSITIA-332 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND COMPLETING ALL SAFETY PROGRAMS IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES.
 - WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30MPH). 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 ALL NECESSARY BRACING AND SHORING TO MAINTAIN THE STRUCTURE'S STABILITY AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED BY THE CONTRACTOR'S PROPERTY AFTER THEIR USE. CONTRACTOR SHALL RETAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE. CONTRACTOR SHALL RETAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE. CONTRACTOR SHALL RETAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.

- 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 MEMBER TO WHICH IT IS APPLIED. THE END OF THE BOLT SHALL BE CUT OFF AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL EXISTING PAINTED GALVANIZED SURFACES DAMAGED DURING REPAIRS INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

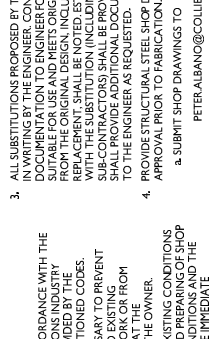
BOLT SCHEDULE (IN.)			
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE SPACING
1/2	9/16	9/16 x 1 1/16	7/8
5/8	1 1/16	1 1/16 x 7/8	1 1/8
3/4	1 3/16	1 3/16 x 1	1 1/4
7/8	1 5/16	1 5/16 x 1 1/8	1 1/2
1	1 1/16	1 1/16 x 1 5/16	1 3/4

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



- NOTES:
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AS MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND MAKE NECESSARY ADJUSTMENTS IF DIMENSIONS ARE LESS THAN THOSE PROVIDED.
 - CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA ANSISAP 10.8, ANSIZ 249.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.
 - CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
 - CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA ANSISAP 10.8, ANSIZ 249.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

ALLOWABLE COPING



- CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA ANSISAP 10.8, ANSIZ 249.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
- CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA ANSISAP 10.8, ANSIZ 249.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.

MASER CONSULTING
 Customized Support through Client Satisfaction
 100 WEST 10TH STREET, SUITE 200
 HARTFORD, CT 06103
 TEL: 860.234.3333 FAX: 860.234.3334
 WWW.MASERCONSULTING.COM

verizon

PROTECT YOURSELF
 ALL UTILITIES SHOULD BE IDENTIFIED AND MARKED PRIOR TO ANY EXCAVATION WORK. CALL 811 BEFORE YOU DIG.
 FOR YOUR STATE, VISIT WWW.CALL811.COM

811
 CALL BEFORE YOU DIG
 FOR YOUR STATE, VISIT WWW.CALL811.COM

PROFESSIONAL ENGINEER
 Peter Albano
 License No. 100-00864
 State of Connecticut
 Date: 2022.09.16 12:00:58 AM EDT

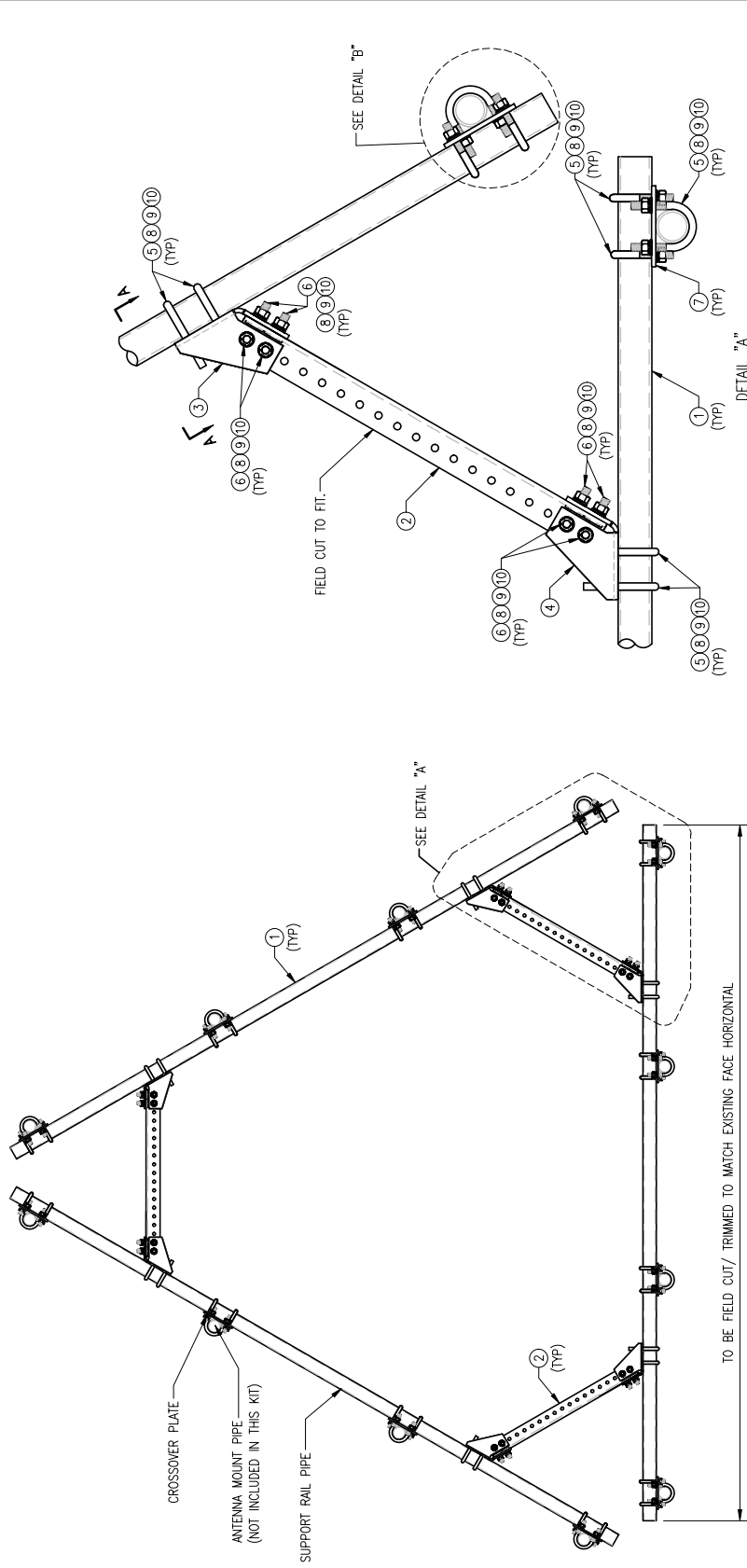
SITE NAME:
 MARLBOROUGH EAST CT
 468156
 175 SOUTH MAIN STREET
 MARLBOROUGH
 CONNECTICUT 06447
 HARTFORD COUNTY

MODIFICATION NOTES

SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

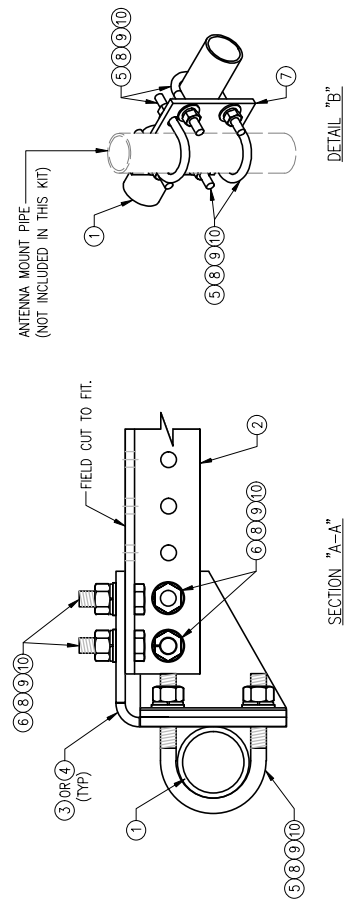
DRAWN BY: H.R.	CHECKED BY: H.M.
REVISION	BY DATE
Δ FIRST ISSUE	H.E. 05/08/20
Δ	
Δ	
Δ	
SHEET TITLE:	
VZSMART-PLK1 SUPPORT RAIL KIT	
SHEET NUMBER:	REV #:
VZSMART-PLK1	0

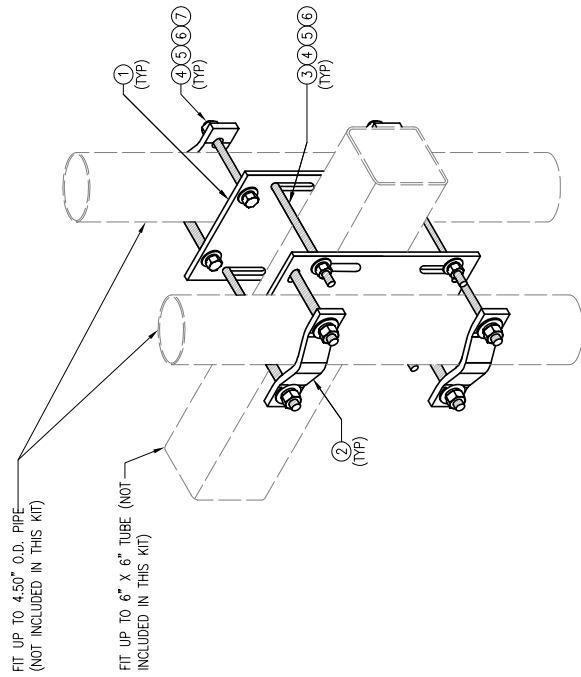


NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" IW. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUIT-625	5/8" HDG HEX NUT	---	17
				GALVANIZED WT	504





FIT UP TO 4.50" O.D. PIPE
 (NOT INCLUDED IN THIS KIT)

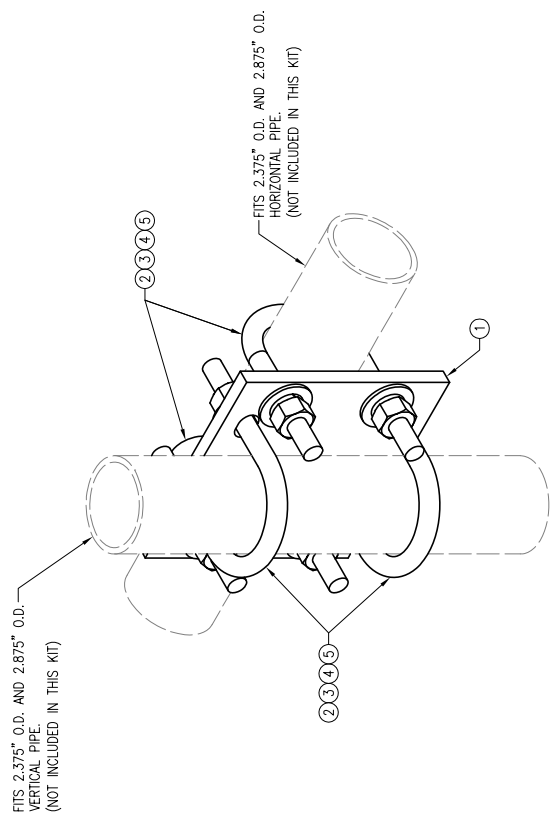
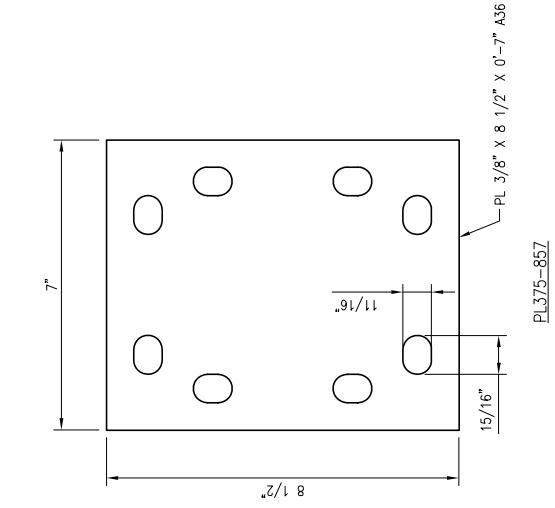
FIT UP TO 6" X 6" TUBE (NOT
 INCLUDED IN THIS KIT)

ISOMETRIC VIEW
 BACK TO BACK CROSSOVER

VZWSMART-MSK6 (VZWSMART-MSK6 - BACK TO BACK CROSSOVER)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	2	PL375-8512	PL 3/8" X 8 1/2" X 1 1/2" X 1"-0" A36	MSK6-F2	20.7
2	4	VCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK6-F1	9.6
3	4	----	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	----	----
4	16	NUT-625	5/8" HDG HEX NUT	----	2
5	16	FW-625	5/8" HDG USS FLAT WASHER	----	1
6	16	LW-625	5/8" HDG LOCK WASHER	----	0
7	8	----	BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD	----	1
				GALVANIZED	WT 34

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



VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS92-625-300-500	RU-BOLT 5/8" X 3" LW X 5" LL A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED	WT 14

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

ATTACHMENT 5



CURRENT OWNER		TOPO.	UTILITIES	STRT./ROAD	LOCATION	CURRENT ASSESSMENT			
FALLOW CROSSING LLC C/O SBA INFRASTRUCTURE LLC 8051 CONGRESS AVE ATTENTION: TAX DEPARTMENT BOCA RATON, FL 33487-1307 Additional Owners:		2 Above Street		1 Paved		Description	Code	Appraised Value	Assessed Value
						Comm Land	2-1	56,800	39,760
						Comm Bldg	2-2	57,000	39,900
						Comm OB	2-5	658,000	460,600
SUPPLEMENTAL DATA									
Other ID:				EXEMPT CO					
Census		5241000		Lake Area					
Dev. Lot		3		Photo Retake					
Dev. Map				CB Letter					
GIS ID: 9/28A/28T				ASSOC PID#					
						Total		771,800	540,260

6079
MARLBOROUGH, CT

VISION

RECORD OF OWNERSHIP		BK-VOL/PAGE	SALE DATE	q/u	v/i	SALE PRICE	V.C.	PREVIOUS ASSESSMENTS (HISTORY)								
FALLOW CROSSING LLC		146/ 84	05/08/2002	U	V	0	29	Yr.	Code	Assessed Value	Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
DAIGLE DONNA M		145/ 919	04/26/2002	U		0	29	2015	2-1	39,760	2014	2-1	41,300	2014	2-1	41,300
DAIGLE ALBERT W		119/ 334	08/14/1997	Q		11,500	XX	2015	2-2	39,900	2014	2-2	40,810	2014	2-2	40,810
								2015	2-5	460,600	2014	2-5	460,320	2014	2-5	460,320
								Total:		540,260	Total:		542,430	Total:		542,430

EXEMPTIONS				OTHER ASSESSMENTS			
Year	Type	Description	Amount	Code	Description	Number	Amount
Total:							

This signature acknowledges a visit by a Data Collector or Assessor

ASSESSING NEIGHBORHOOD				
NBHD/ SUB	NBHD Name	Street Index Name	Tracing	Batch
0001/A				

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	0
Appraised XF (B) Value (Bldg)	0
Appraised OB (L) Value (Bldg)	654,400
Appraised Land Value (Bldg)	56,800
Special Land Value	0
Total Appraised Parcel Value	771,800
Valuation Method:	C
Adjustment:	0
Net Total Appraised Parcel Value	771,800

NOTES				
CRUSHED STONE AREA 60X75 FENCED IN				
2008-SPLIT BILL/FENCE				
FULLSITE 100X100/FALL DOWN AREA 170 X170				
CABINETS+PAD=SPRINT				
12X30 BLDG = VERIZON				
11X20 BLDG= CINGULAR				
CELL TOWER VALUE = \$2000 MONTH LESS				
25% EXPENSES = \$18,000 CAPPED AT 11% =				
\$163,600 PER SITE X 4 SITES = \$654,400				
10/2012 UPDATE-SBA DOES NOT OWN 8' FENCE				

BUILDING PERMIT RECORD								VISIT/ CHANGE HISTORY						
Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments	Date	Type	IS	ID	Cd.	Purpose/Result
1598	01/24/2014	BP		0	07/29/2015	100		4 X 8 CONCRETE PAD	07/29/2015			LM	00	Meas. and List
956	09/25/2012	BP		0	07/29/2015	100		REPLACE 12 EXISTING	01/19/2006			VA	48	Final Assmt Notice-Reval
04-582	02/21/2006	NC	New Construct	0	02/21/2006	100	12/20/2006	CO NEW CONST	11/18/2005			VA	47	1st Assmt Notice-Reval
05-512	11/01/2005		ANTENNA	40,000		100		TELECOMUNICATION	09/21/2005			AJ	12	Field Review
									03/07/2005			TH	99	Vacant Land

LAND LINE VALUATION SECTION

B #	Use Code	Use Description	Zone	D	Front	Depth	Units	Unit Price	I. Factor	S.A.	Acre Disc	C. Factor	ST. Idx	Adj.	Notes- Adj	Special Pricing			S Adj Fact	Adj. Unit Price	Land Value
																Spec Use	Spec Calc				
1	201	Comm Land	R	E			0.23 AC	76,000.00	3.2494	5	1.0000	1.00	50	1.00	CELL TOWER SITE				1.00		56,800

ATTACHMENT 6



MARLBOROUGH EAST
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 3	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here <i>Postmark with Date of Receipt.</i>
	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.	Greg Lowrey, First Selectman Town of Marlborough 26 North Main Street Marlborough, CT 06447				
2.	Peter Hughes, Director of Planning and Development Town of Marlborough 26 North Main Street Marlborough, CT 06447				
3.	Fallow Crossings LLC c/o SBA Infrastructure LLC Attn: Tax Department 8051 Congress Avenue Boca Raton, FL 33487				
4.					
5.					
6.					

