

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts
and New York

December 13, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
101 Burbank Road, Ellington, 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 the existing tower and associated equipment on the ground adjacent to the tower. The tower was approved by the Town of Ellington in December of 1999. Cellco’s shared use of the tower was approved by the Siting Council (“Council”) in November of 2000 (TS-VER-048-001013). A copy of the Town’s approval and the Council’s TS-VER-048-001013 approval are included in [Attachment 1](#).

Cellco now intends to modify its facility by replacing nine (9) existing antennas with three (3) Samsung MT6407-77A antennas and six (6) NHH-65B-R2B antennas on its existing antenna mounts. Cellco also intends to remove six (6) existing remote radio heads (“RRHs”) and install six (6) new RRHs. All new equipment will be installed on Cellco’s existing antenna mounts. A set of project plans showing Cellco’s proposed facility modifications and specification 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 the Town’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
December 13, 2021
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. The new antennas will be installed on Cellco's existing antenna mounts.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Melanie A. Bachman, Esq.
December 13, 2021
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:

Lori L. Spielman, Ellington First Selectman
Lisa M. Houlihan, Ellington Town Planner
Bernard and Jane Asumadu, Property Owners
Alex Tyurin, Verizon Wireless

ATTACHMENT 1



STATE OF CONNECTICUT • COUNTY OF TOLLAND
INCORPORATED 1786

TOWN OF ELLINGTON

55 MAIN STREET • P.O. BOX 187
ELLINGTON, CONNECTICUT 06029

December 10, 1999

Crossroads Site Management LLC
1050 Buckley Highway
Union CT 06076

Dear Sirs:

The Ellington Planning and Zoning Commission, at their meeting on Monday, October 25, 1999, approved your application with the following motion:

MOVED (AUCTER) SECONDED (SPIELMAN) CARRIED UNANIMOUSLY (AYES: ZAHNER, AUCTER, SPIELMAN, KUPECKY, HEIDARI, HARFORD) (NAYES: 0) TO APPROVE #Z9939 SUBJECT TO THE RECOMMENDATIONS OF THE TOWN ENGINEER'S LETTER OF 10/25/99.

I am enclosing a copy of the Legal Notice for your records.

Very truly yours,

Cornelia B. Nichols
Cornelia B. Nichols, Clerk
Planning and Zoning Commission

enclosure

VL 257 NAE 238

2773

RECEIVED

David H. ...

Nov 2 11 52 AM '99

TOWN OF ELLINGTON
CERTIFICATE OF VARIANCE

RECORDS & COMMUNICATIONS
TOWN OF ELLINGTON

Notice is hereby given that the Zoning Board of Appeals of the Town of Ellington, at its meeting on Monday, October 4, 1999, granted a Variance to Donald & Rosalie Stevens, 181 Burbank Road, Ellington, Connecticut 06029 as follows:

NATURE OF VARIANCE(S)

The Zoning Board of Appeals granted a Variance to allow construction of a communication tower with the condition that it be available to other providers and the Public Safety Agencies of the Town of Ellington.

FOURTH REGULATION(S) VARIED

Ellington Zoning Regulations, Section 5.2, Area 4' Yard Requirements. Height Requirements 35' to 150'.

NAME OF OWNER(S) OF PROPERTY

Donald & Rosalie Stevens, 181 Burbank Road, Ellington, Connecticut 06029.

Dated at Ellington, Connecticut, this 29th day of October 1999.

I hereby certify that the above is a true and attested copy of the aforesaid variance from the records of the Zoning Board of Appeals.

Signed *Michael J. ...*
Michael Riley, Chairman

Signed *Cynthia S. ...*
Cynthia S. Nichols, Clerk

Recorded-Ellington Land Records

on Nov 3, 1999


Volume 257 Page 238

Attest: *David H. ...*
Town Clerk

In order to issue a Zoning Permit involving this property, a copy of this document listing the date same was recorded in the Ellington Land Records, must be presented to the Zoning Enforcement Officer.

**Town of Ellington
Planning and Zoning Commission
Application**

Application # 29939
Date Received 10/5/99

Type of Application:	
<input type="checkbox"/> Change of Zone <input type="checkbox"/> Amendment to Regulations <input checked="" type="checkbox"/> Site Plan Approval <input type="checkbox"/> Special Permit <input type="checkbox"/> Earth Excavation	
Applicant's Information:	Owner's Information:
Name <u>Crossroads SITE MANAGEMENT, LLC</u>	Name <u>Donald E STAVENS Rosalie M. STAVENS</u>
Mailing Address <u>1050 Buckley Hwy</u> <u>UNION, CT 06076</u>	Mailing Address <u>101 Burbank Road</u> <u>ELLINGTON, CONNECTICUT</u>
Telephone Work <u>860-684-3060</u> Home <u>860-684-7747</u>	Telephone Work _____ Home <u>875-8937</u>
Property Description:	
Street Address <u>101 Burbank Road, ELLINGTON, CT</u>	
Assessor's Parcel Number <u>14B-017-0000</u>	
Zone: Present <u>RA</u> Proposed _____	
Is the parcel within 500 feet of any municipal boundary? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Description of Request:	
<u>SITE APPROVAL AND ZONING PERMIT TO CONSTRUCT</u> <u>TELECOMMUNICATIONS TOWER AND RELATED EQUIPMENT BUILDINGS</u>	
<p>Please Note: Zoning Board of Appeals variance (V9915) approval granted October 4, 1999 listed under "David Smith" the engineer.</p>	
<p>Adjoining Property Owners: Please indicate on an attached list the names of property owners within 500 feet of the parcel which is the subject of this application, their mailing addresses (including zip code), and location. This information may be provided by a registered land surveyor, professional engineer, or attorney. The applicant shall be responsible for notifying all property owners within this area by US Postal Service Certificate of Mailing. Evidence of the mailing of the notification shall be delivered to the Planning Department no later than the Wednesday prior to the scheduled public hearing. The Planning Department will provide the applicant with a copy of the legal notice to be enclosed with the mailing.</p>	
<p>Statement of Accuracy and Permission: I hereby certify that all information submitted with this application is true and accurate to the best of my knowledge. The applicant understands that this application is to be considered complete only when all information and documents required by the Commission have been submitted. The applicant grants permission for the members of the Planning and Zoning Commission and their designated agents to inspect the property which is the subject of this application.</p>	
Date <u>October 4, 1999</u>	<p style="text-align: center;"> Signature of Petitioner <u>Donald E Stavens</u> CSM, LLC. (Must be owner or holder of an option to purchase)</p>

ARTICLE 7 SPECIAL REGULATIONS

Section 7.3 Communication Tower

- A. The applicant will be required to take reasonable steps to mitigate any adverse visual impact from all new communication tower facilities. Steps shall include but are not limited to: landscaping, fencing, painting or similar measures as appropriate to camouflage the communication tower.
- B. A communication tower must comply with the setback requirements of the zone in which it is located or be set back from the property lines a distance equal to the height of the tower, whichever is greater.
- C. Towers shall not exceed 190 feet in height above the ground.
- D. To discourage unauthorized trespassing and provide for the public safety, the base of any ground-mounted tower shall be secured by fence enclosure to a height of 6 feet above the ground.
- E. No lighting of any communication tower will be permitted, with the exception of ground lighting for maintenance purposes, except as required by the Federal Communications Commission, Federal Aviation Administration, or the Connecticut Siting Council.
- F. No advertising or signs shall be permitted on any communication tower.
- G. To avoid unnecessary proliferation of communication towers, new towers will not be approved unless there is a need demonstrated such as all available space on existing or approved towers covering the same geographic area has been utilized or that there is an area within Ellington or immediately adjacent to Ellington which is not served by existing facilities; i.e. a hole exists in a propagation mapped area.
- H. To protect the public health from the unknown effects of electromagnetic fields, all communication transmitters must comply with FCC emissions regulations.
- I. Communication towers shall provide space for municipal emergency service transmission antennas as required by the town.
- J. The facility owner at their expense shall remove a communication tower facility not in use for 12 consecutive months. This removal shall occur within 20 days of the end of such a 12 month period. The commission may require a bond or other security to the Town of Ellington valid for the life of the tower to guarantee removal.
- K. All utilities installed in conjunction with any communication tower site shall be installed underground unless otherwise approved by the commission.

Section 7.4 Composting Facility

- A. A complete site development plan as required under Section 8.2 of these Regulations shall be submitted for any proposed composting facility. In addition, this site development plan shall show the following items.
 - 1. The location of all wetlands, watercourses, and wells within 1,000 feet of the lot where the composting facility is located. Wetlands may be plotted using data obtained from USDA Soil Conservation Service soil surveys.
 - 2. Existing and proposed topographic contours on the project site shall be shown on separate sheets at intervals of 2 feet or less, unless otherwise directed by the Commission.

November 6, 2000

Sandy M. Carter
Verizon Wireless
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492

RE: **TS-VER-048-001013** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 101 Burbank Road, Ellington, Connecticut.

Dear Ms. Carter:

At a public meeting held November 2, 2000, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated October 12, 2000.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Michael P. Stupinski, First Selectman, Town of Ellington
Wayne Kemp, Crossroads Site Management LLC

ATTACHMENT 2



SITE NAME: ELLINGTON_CT

101 BURBANK ROAD
 ELLINGTON, CT 06029
 TOWN OF ELLINGTON
 TOLLAND COUNTY



Know whats below.
 Call before you dig.



NB+C
 TOTALLY COMMITTED.
 NB+C ENGINEERING SERVICES, LLC.
 100 APOLLO DRIVE
 SUITE 303
 CHELMSFORD, MASSACHUSETTS
 01824-3303



118 FLANDERS ROAD
 FLOOR 3
 WESTBOROUGH, MA 01581

SITE INFORMATION

SITE ADDRESS: 101 BURBANK ROAD
 ELLINGTON, CT 06029
 LATITUDE (NAD 83): 41°-56'-10.4316"N (41.936231°)
 LONGITUDE (NAD 83): 72°-23'-7.0908"W (72.385303°)
 JURISDICTION: TOWN OF ELLINGTON
 TOLLAND COUNTY
 PARCEL NUMBER: 1620087
 PROPERTY OWNER: ASUMADU BERNARD/ASUMADU JANE K
 101 BURBANK RD
 ELLINGTON, CT 06029
 TOWER OWNER: SBA COMMUNICATIONS CORPORATION
 9051 CONGRESS AVENUE
 BOCA RATON, FL 33487-1307
 VZW SITE ID: 674889
 STRUCTURE TYPE: SELF SUPPORT
 CONSTRUCTION TYPE: II B
 USE GROUP: U

VICINITY MAP



DRAWING INDEX

T-1	TITLE SHEET
C-1	COMPOUND PLAN
C-2	ELEVATION
A-1	EXISTING ANTENNA PLAN & SCHEDULE
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

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.

SCOPE OF WORK

PROJECT CONSISTS OF INSTALLING: (3) PROPOSED DUAL ANTENNA MOUNTS, (9) PROPOSED ANTENNAS, (9) PROPOSED RRUs, (1) PROPOSED 6X12 (1.43'Ø) HYBRID CABLE, AND (1) PROPOSED OVP TO AN EXISTING WIRELESS TELECOMMUNICATIONS FACILITY.

PROJECT CONSISTS OF REMOVING: (9) EXISTING ANTENNAS, (8) EXISTING RRUs, (1) OVP BOX, AND (1) 6X12 HYBRIFLEX 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 / (2020 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

PROJECT TEAM

APPLICANT: CELL CO PARTNERSHIP d/b/a
 VERIZON WIRELESS
 118 FLANDERS ROAD
 FLOOR 3
 WESTBOROUGH, MA 01581

PROJECT MANAGEMENT FIRM: NETWORK BUILDING & CONSULTING, LLC.
 6095 MARSHALEE DRIVE
 SUITE 300
 ELK RIDGE, MD 21075

ENGINEERING FIRM: NB+C ENGINEERING SERVICES, LLC.
 100 APOLLO DRIVE
 SUITE 303
 CHELMSFORD, MA 01824
 (978) 856-8308

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"/>

ENGINEER

APPLICANT

SITE INFORMATION

DESIGN RECORD

PROFESSIONAL STAMP

ENGINEER

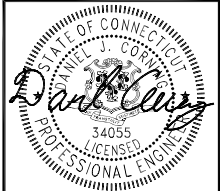
SHEET TITLE

SHEET NUMBER

ELLINGTON_CT
 101 BURBANK ROAD
 ELLINGTON, CT 06029
 TOWN OF ELLINGTON
 TOLLAND COUNTY

REVISIONS

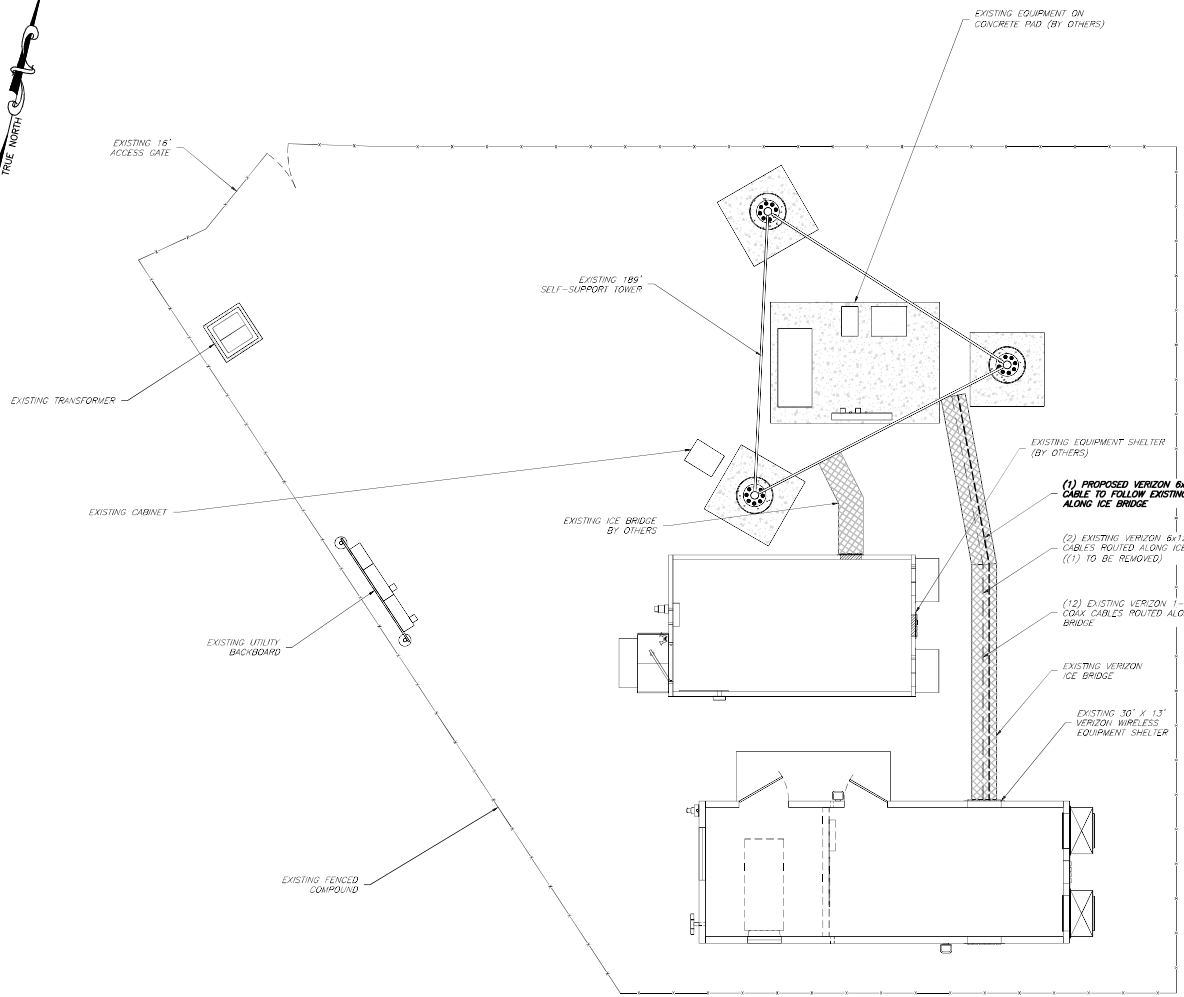
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DANIEL J. CORNING, P.E.
 CT PROFESSIONAL ENGINEER LIC. #34055

TITLE SHEET

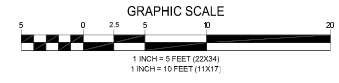
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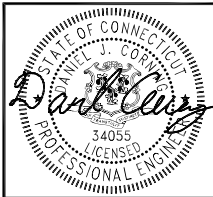


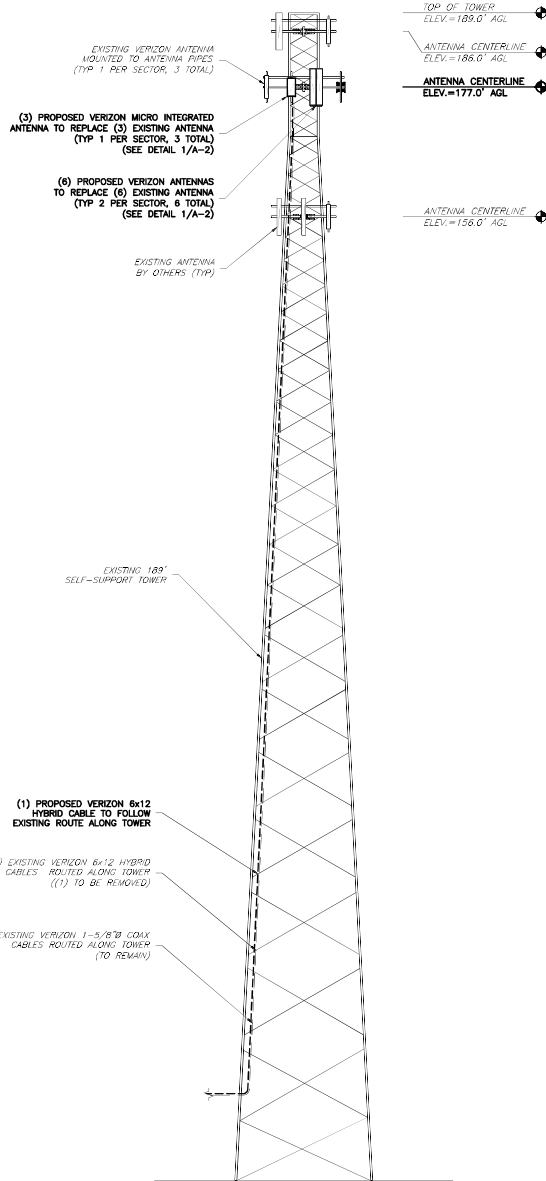
GENERAL NOTES

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.

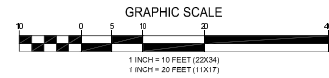
1
C-1
COMPOUND PLAN
SCALE: 1" = 5' (22X34)
SCALE: 1" = 10' (11X17)



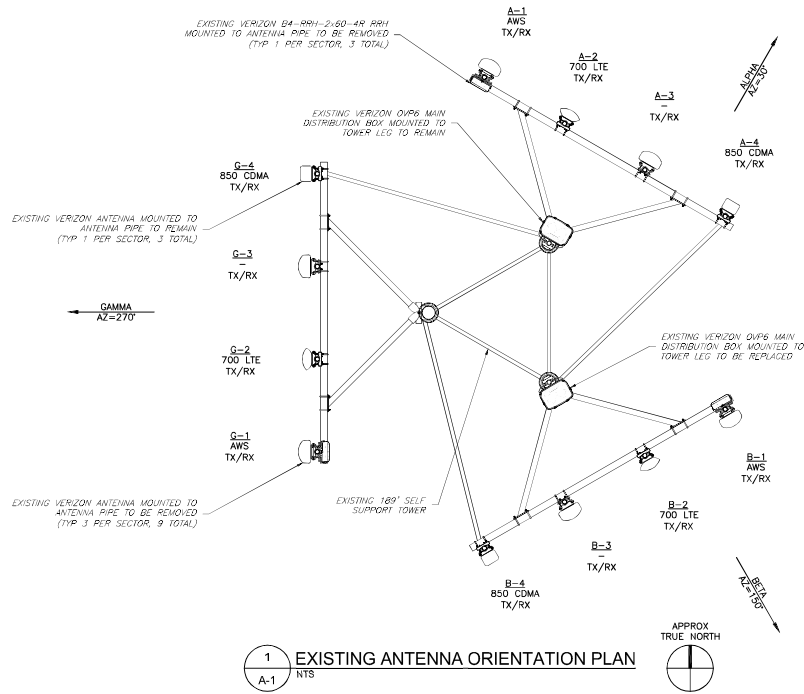
ENGINEER	 TOTALLY COMMITTED. <small>NB+C ENGINEERING SERVICES, LLC. 100 WOOD DRIVE SUITE 100 WESTBOROUGH, MA 01581 (978) 264-0000</small>								
APPLICANT	 verizon 118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581								
SITE INFORMATION	ELLINGTON CT 101 BURBANK ROAD ELLINGTON, CT 06029 TOWN OF ELLINGTON TOLLAND COUNTY								
DESIGN RECORD	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">REV</th> <th style="width: 15%;">DATE</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 20%;">BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>12/02/21</td> <td>FINAL CDR</td> <td>JMS</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	0	12/02/21	FINAL CDR	JMS
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ENGINEER	DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC. #34055								
SHEET TITLE	COMPOUND PLAN								
SHEET NUMBER	C-1								



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



ENGINEER	<p>TOTALLY COMMITTED.</p> <p>NB+C ENGINEERING SERVICES, LLC. 100 WOODLAND DRIVE SUITE 101 WESTBOROUGH, MA 01581 978.366.1001</p>								
APPLICANT	<p>118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581</p>								
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ENGINEER	<p>DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC. #34055</p>								
SHEET TITLE	<p>ELEVATION</p>								
SHEET NUMBER	<p>C-2</p>								



1
A-1
EXISTING ANTENNA ORIENTATION PLAN
NTS

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	ANDREW	HBXA-6517DS-A2M	177.00'	30°	0°	2°	(1) UHC B4 RRH 2x60-4R	AWS	(4) 1-5/8" COAX CABLES (215'±)	
A-2	ANTEL	BXA-70063-4CF	177.00'	30°	0°	0°	(1) UHBA B13 RRH 4x30	700 LTE	(1) 6x12 HYBRID CABLE (215'±)	
A-3	ANDREW	HBXA-6517DS-A2M	177.00'	30°	-	-	-	-	-	
A-4	AMPHENOL	BXA-70080-4BF-EDIN	177.00'	30°	0°	4°	-	-	-	
B-1	ANDREW	HBXA-6517DS-A2M	177.00'	150°	0°	2°	(1) UHC B4 RRH 2x60-4R	AWS	(4) 1-5/8" COAX CABLES (215'±)	
B-2	ANTEL	BXA-70063-4CF	177.00'	150°	0°	2°	(1) UHBA B13 RRH 4x30	700 LTE	(1) 6x12 HYBRID CABLE (215'±)	
B-3	ANDREW	HBXA-6517DS-A2M	177.00'	150°	-	-	-	-	-	
B-4	AMPHENOL	BXA-70080-4BF-EDIN	177.00'	150°	0°	0°	-	-	-	
G-1	ANDREW	HBXA-6517DS-A2M	177.00'	270°	0°	1°	(1) UHC B4 RRH 2x60-4R	AWS	(4) 1-5/8" COAX CABLES (215'±)	
G-2	ANTEL	BXA-70063-4CF	177.00'	270°	0°	0°	(1) UHBA B13 RRH 4x30	700 LTE	(1) 6x12 HYBRID CABLE (215'±)	
G-3	ANDREW	HBXA-6517DS-A2M	177.00'	270°	-	-	-	-	SHARED THROUGH HYBRID CABLE	
G-4	AMPHENOL	BXA-70080-4BF-EDIN	177.00'	270°	0°	0°	-	-	-	

NOTES:
 1. PLANS PREPARED PER RF SHEET DATED 09/10/2021. CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.
 2. CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

ENGINEER

NB+C
TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
 100 WOOD DRIVE
 SUITE 101
 WESTBOROUGH, MASSACHUSETTS 01581

APPLICANT

verizon

118 FLANDERS ROAD
 FLOOR 3
 WESTBOROUGH, MA 01581

SITE INFORMATION

ELLINGTON_CT
 101 BURBANK ROAD
 ELLINGTON, CT 06029
 TOWN OF ELLINGTON
 TOLLAND COUNTY

DESIGN RECORD

REVISIONS

REV	DATE	DESCRIPTION	BY
0	12/02/21	FINAL CD	JMS

PROFESSIONAL STAMP

STATE OF CONNECTICUT
 DANIEL J. CORNING
 34055
 LICENSED PROFESSIONAL ENGINEER

ENGINEER

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

SHEET TITLE

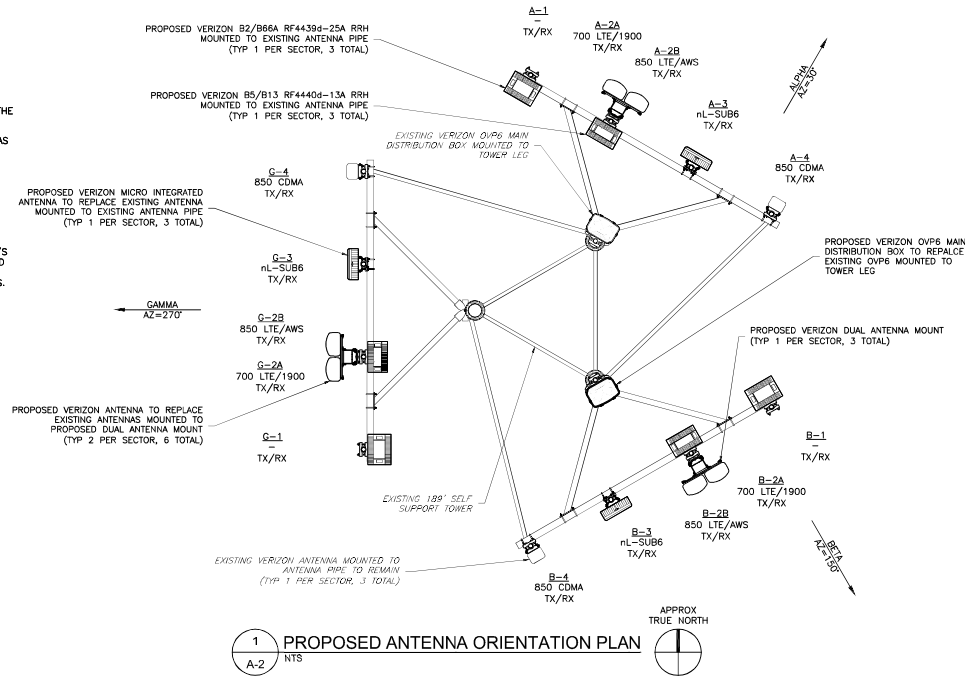
EXISTING ANTENNA PLAN & SCHEDULE

SHEET NUMBER

A-1

GENERAL ANTENNA NOTES

- ALL ANTENNAS TO BE FURNISHED WITH DOWNTILT BRACKETS. CONTRACTOR IS TO COORDINATE AND VERIFY THE PROPOSED DOWNTILTS WITH VERIZON MANAGER PRIOR TO CONSTRUCTION.
- ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO ELEVATION 0.0'. (EXISTING GRADE)
- 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.
- PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT 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. THE OWNER'S AGENT SHALL FURNISH A CERTIFICATION LETTER SEALED BY A REGISTERED PROFESSIONAL ENGINEER STATING THAT THIS STRUCTURAL ANALYSIS WAS PREPARED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.



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-2A	COMMSCOPE	NHH-65B-R2B	177.00'	30'	0'/0'	Z'/Z'	(1) RF44400-13A	700/850	(4) 1-5/8" CDAX (215'±)
A-2B	COMMSCOPE	NHH-65B-R2B	177.00'	30'	0'/0'	Z'/Z'	(1) RF44390-25A	PCS/AWS	-
A-3	SAMSUNG	MT6407-77A	177.00'	30'	0'	6'	INTEGRATED IN ANTENNA	nL-Sub6	(1) 6x12 HYBRID CABLE (215'±)
A-4	AMPHENOL	BVA-70080-4BF-EDN	177.00'	30'	5'	4'	-	-	-
B-1	EMPTY	-	-	-	-	-	-	-	-
B-2A	COMMSCOPE	NHH-65B-R2B	177.00'	150'	0'/0'	Z'/Z'	(1) RF44400-13A	700/850	(4) 1-5/8" CDAX (215'±)
B-2B	COMMSCOPE	NHH-65B-R2B	177.00'	150'	0'/0'	Z'/Z'	(1) RF44390-25A	PCS/AWS	-
B-3	SAMSUNG	MT6407-77A	177.00'	150'	0'	6'	INTEGRATED IN ANTENNA	nL-Sub6	(1) 6x12 HYBRID CABLE (215'±)
B-4	AMPHENOL	BVA-70080-4BF-EDN	177.00'	150'	0'	0'	-	-	-
G-1	EMPTY	-	-	-	-	-	-	-	-
G-2A	COMMSCOPE	NHH-65B-R2B	177.00'	270'	0'/0'	0'/1'	(1) RF44400-13A	700/850	(4) 1-5/8" CDAX (215'±)
G-2B	COMMSCOPE	NHH-65B-R2B	177.00'	270'	0'/0'	0'/1'	(1) RF44390-25A	PCS/AWS	-
G-3	SAMSUNG	MT6407-77A	177.00'	270'	0'	6'	INTEGRATED IN ANTENNA	nL-Sub6	SHARED THROUGH HYBRID CABLE
G-4	AMPHENOL	BVA-70080-4BF-EDN	177.00'	270'	0'	0'	-	-	-

- 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.

ENGINEER	<p>TOTALLY COMMITTED.</p> <p>NB+C ENGINEERING SERVICES, LLC. 100 WOOD DRIVE SUITE 200 WESTBOROUGH, MA 01581</p>								
APPLICANT	<p>118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581</p>								
SITE INFORMATION	<p>ELLINGTON CT 101 BURBANK ROAD ELLINGTON, CT 06029 TOWN OF ELLINGTON TOLLAND COUNTY</p>								
DESIGN RECORD	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>12/2/21</td> <td>FINAL CDx</td> <td>JMS</td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION	BY	0	12/2/21	FINAL CDx	JMS
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0	12/2/21	FINAL CDx	JMS						
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ENGINEER	<p>DANIEL J. CORNING, P.E. CT PROFESSIONAL ENGINEER LIC. #34055</p>								
SHEET TITLE	<p>PROPOSED ANTENNA PLAN & SCHEDULE</p>								
SHEET NUMBER	<p>A-2</p>								

REVISIONS

REV	DATE	DESCRIPTION	BY
0	12/02/21	FINAL CD's	JMS



ANTENNA DETAILS
& PLUMBING
DIAGRAM

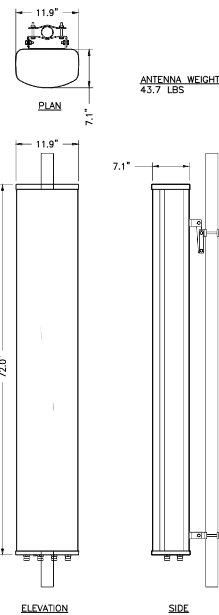
EXISTING ANTENNA SPECIFICATIONS

ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
ANDREW	*HEXIK-6517DS-ADM	6	75.0"	12.0"	6.5"	40.8 LBS
ANTEL	*BXA-70063-4CF	3	47.4"	11.2"	5.0"	9.9 LBS
AMPHENOL	BXA-70069-4BF-EDM	3	44.3"	8.0"	5.9"	9.8 LBS

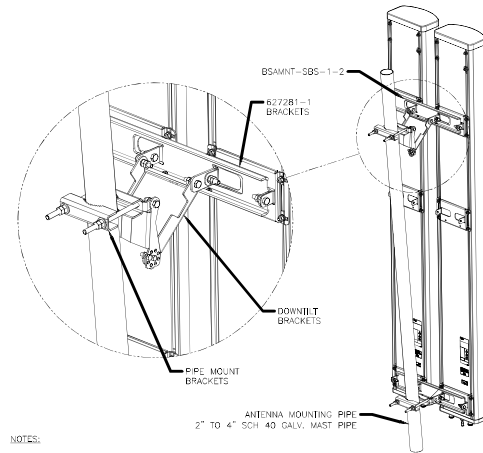
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PROPOSED ANTENNA SPECIFICATIONS

ANTENNA MANUFACTURER	ANTENNA MODEL	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
COMMSCOPE	NHH-65B-R2B	6	72.0"	11.9"	7.1"	43.7 LBS
SAMSUNG	MT6407-77A	3	35.12"	16.06"	5.51"	81.5 LBS

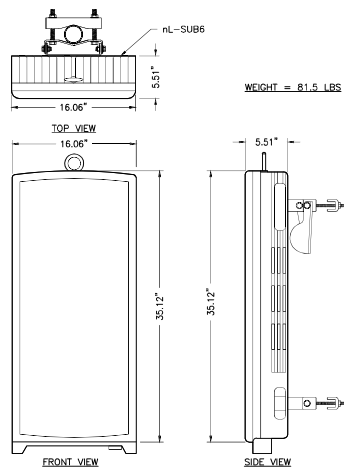


3 NHH-65B-R2B ANTENNA DETAILS
A-3 NTS

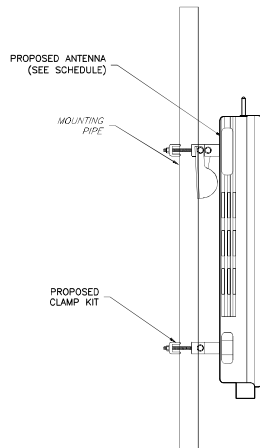


NOTES:
- DSAMNT-SBS-1-2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

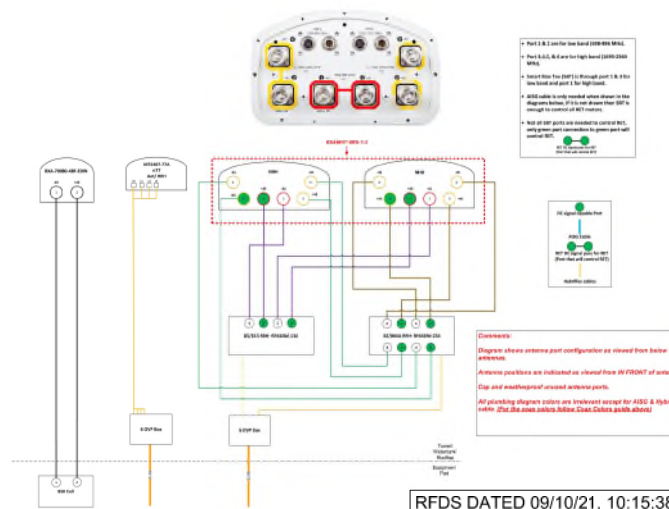
4 COMMSCOPE DUAL ANTENNA MOUNTING DETAILS
A-3 NTS



1 MT6407-77A INTEGRATED ANTENNA
A-3 NTS



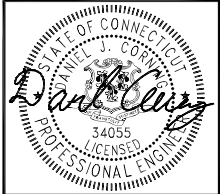
2 ANTENNA MOUNTING DETAILS
A-3 NTS



RFDS DATED 09/10/21, 10:15:38

REVISIONS

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

EQUIPMENT SPECIFICATIONS & DETAILS

A-4

EXISTING RRH EQUIPMENT SPECIFICATIONS

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
NOKIA	*UBXA B13 RRH 4x30	SHELTER	3	21.50"	12.00"	9.00"	56.7 LBS
NOKIA	*UBXC B4 RRH 2x60-4M	TOWER	3	36.6"	10.6"	5.7"	55.0 LBS

* TO BE REMOVED

PROPOSED RRH EQUIPMENT SPECIFICATIONS

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
SAMSUNG	RF4440d-13A	TOWER	3	15.50"	15.90"	10.20"	74.5 LBS
SAMSUNG	RF4439d-25A	TOWER	3	15.50"	15.90"	12.00"	90.0 LBS

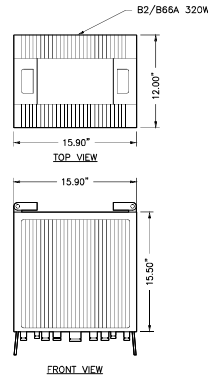
EXISTING DISTRIBUTION EQUIPMENT SPECIFICATIONS

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
RAYCAP	*RC3DC-3315-PF-48 (OVP6)	TOWER	1	28.93"	15.73"	10.3"	32.0
RAYCAP	RC3DC-3315-PF-48 (OVP6)	TOWER	1	28.93"	15.73"	10.3"	32.0

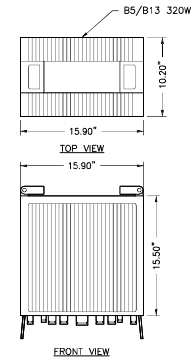
* TO BE REMOVED

PROPOSED DISTRIBUTION EQUIPMENT SPECIFICATIONS

MANUFACTURER	MODEL #	LOCATION	QUANTITY	HEIGHT	WIDTH	DEPTH	WEIGHT
RAYCAP	RC3DC-3315-PF-48 (OVP6)	TOWER	1	28.93"	15.73"	10.3"	32.0 LBS



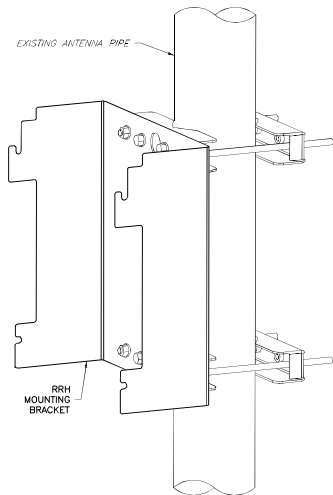
WEIGHT = 90.0 LBS



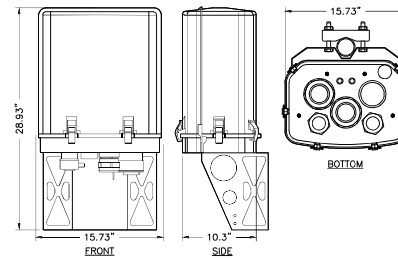
WEIGHT = 74.5 LBS

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 OVP6 DISTRIBUTION BOX DETAIL
A-4 NTS

VERIZON WIRELESS CONTRACTOR SCOPE OF WORK

MOP FOR RET INSTALLS

- 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/ROOM. THE CONTRACTOR IS TO VERIFY THE LOCATION IN THE EQUIPMENT SHELTER/ROOM PRIOR TO CONSTRUCTION.
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL THE PROPOSED MAIN DISTRIBUTION BOXES (TOP) IN THE BETA SECTOR MOUNTED ON THE TOWER LEG.
 - VERIZON WIRELESS CONTRACTOR IS TO INSTALL (1) RUNS OF 6/12 HYBRIFLEX 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 (9) 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 (36) 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 RRRH
- DUAL RRRH B2/B66A RF4439D--25A HELIAX 1/1 HYBRID CABLE CABLE MUST BE CONNECTED TO THE LO PRIMARY PORT AND (1) EXTRA PAIR OF FIBER CONNECTED TO L1 SECONDARY PORT.
 - DUAL RRRH B5/B13 RF4440D--13A HELIAX 1/1 HYBRID CABLE MUST BE CONNECTED TO THE LO PRIMARY PORT.
- INTEGRATED ANTENNA
- MT6407--77A 1/1 HYBRID CABLE MUST BE CONNECTED TO OPT1 PORT AND (3) EXTRA FIBER CABLE TO THE SECONDARY OPT2 PORT.

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. LABEL 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

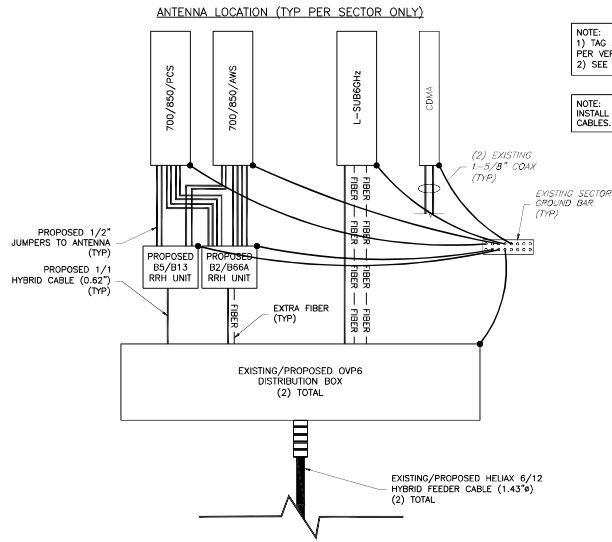
NOTE: CREWS MUST USE SOFTWARE THAT IS SPECIFIC TO THE MOTOR TYPE BEING PROVISIONED (IE- JMA SOFTWARE SHOULD ONLY BE SUED FOR JMA MOTORS)

 - A. COPY AND PASTE "RET FRIENDLY NAME" FROM SPREADSHEET (COLUMN A) TO THE "SECTOR ID" FIELD OF 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
 - II. 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"
 - II. RELEASE CONFIG RIGHTS
 - 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

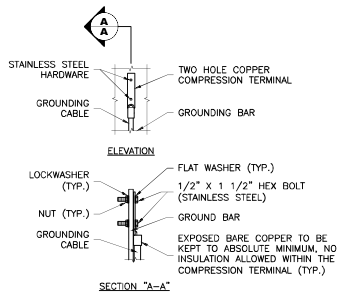
ENGINEER	 <p>TOTALLY COMMITTED.</p> <p>NB+C ENGINEERING SERVICES, LLC. 100 ANGLE DRIVE SUITE 300 WILMINGTON, MASSACHUSETTS 01897-0530</p>												
APPLICANT	 <p>118 FLANDERS ROAD FLOOR 3 WESTBOROUGH, MA 01581</p>												
SITE INFORMATION	<p>ELLINGTON CT 101 BURBANK ROAD ELLINGTON, CT 06029 TOWN OF ELLINGTON TOLLAND COUNTY</p>												
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SHEET TITLE	<p>SCOPE OF WORK</p>												
SHEET NUMBER	<p>A-5</p>												



NOTE:
1) TAG ALL EXISTING AND PROPOSED CABLES/JUMPERS PER VERIZON SPECIFICATIONS (SEE RF SCHEDULE).
2) SEE A-1 & A-2 FOR CABLE LENGTHS.

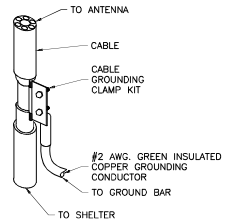
NOTE:
INSTALL GROUNDING KIT TO ALL PROPOSED HYBRID FEEDER CABLES.

1 GROUNDING RISER DIAGRAM
NTS

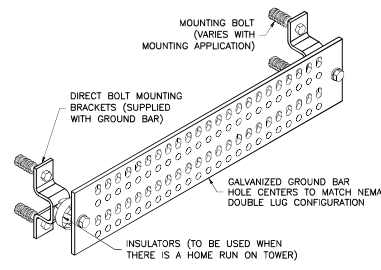


NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

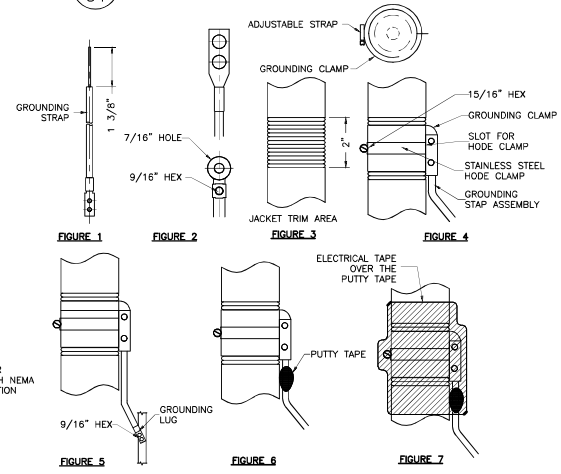
3 GROUND BAR CONNECTION DETAIL
G-1 NTS



4 CABLE GROUNDING DETAIL
G-1 NTS



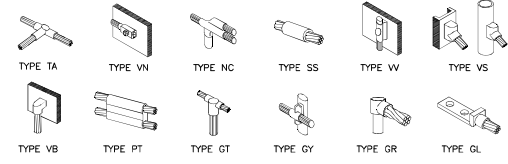
5 GROUND BAR DETAIL
G-1 NTS



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 FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- 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

ENGINEER
NB+C
TOTALLY COMMITTED.
NB+C ENGINEERING SERVICES, LLC.
100 ARLO DRIVE
SUITE 300
WESTBOROUGH, MA 01581

APPLICANT
verizon
118 FLANDERS ROAD
FLOOR 3
WESTBOROUGH, MA 01581

SITE INFORMATION
ELLINGTON CT
101 BURBANK ROAD
ELLINGTON, CT 06029
TOWN OF ELLINGTON
TOLLAND COUNTY

DESIGN RECORD

REV	DATE	DESCRIPTION	EY
0	12/02/21	FINAL CD	JMS

REVISIONS

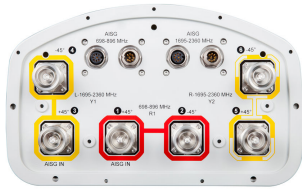
PROFESSIONAL STAMP
STATE OF CONNECTICUT
DANIEL J. CORNING
34055
LICENSED PROFESSIONAL ENGINEER

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

SHEET TITLE
GROUNDING
DETAILS & NOTES

SHEET NUMBER
G-1

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

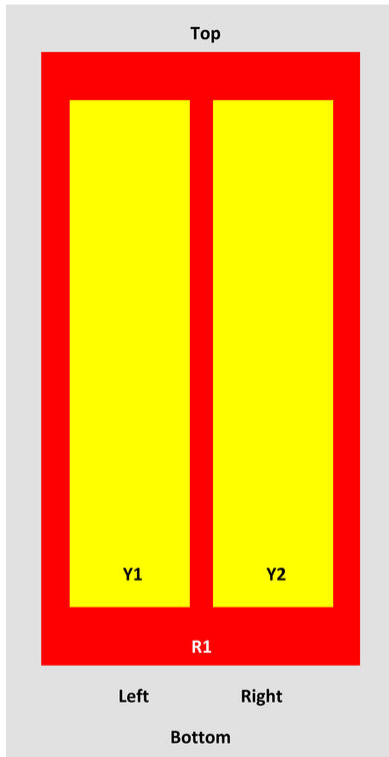
Dimensions

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

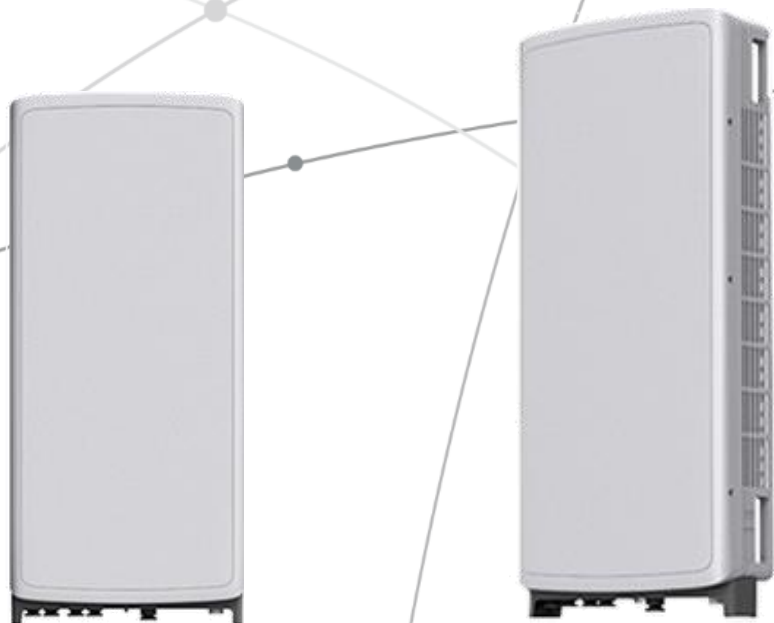
Performance Note Severe environmental conditions may degrade optimum performance

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



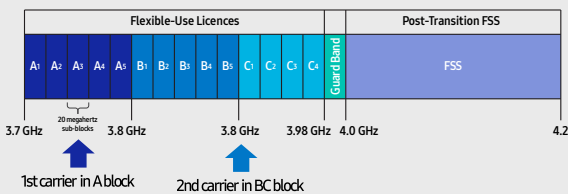
Points of Differentiation

Wide Bandwidth

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

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

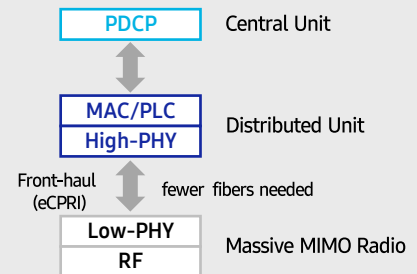
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

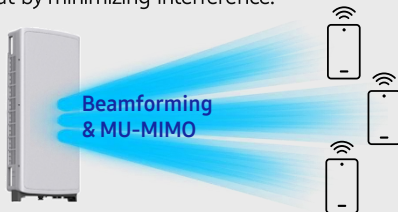


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

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

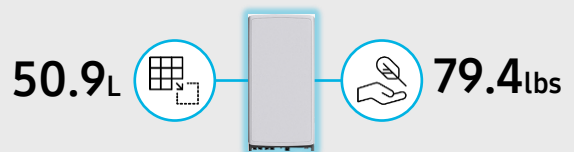
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

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

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

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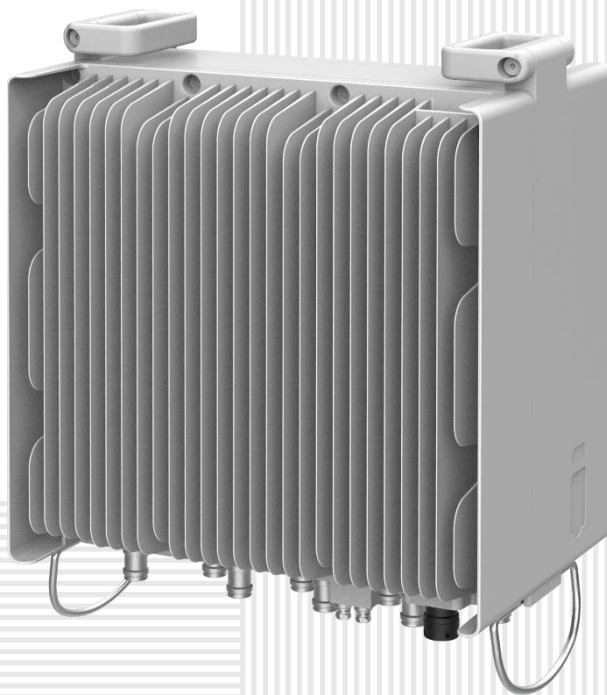
SAMSUNG

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

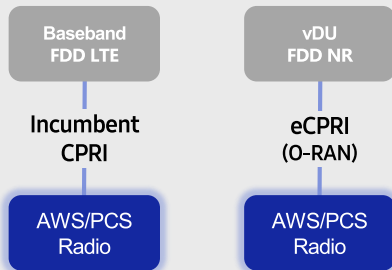


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

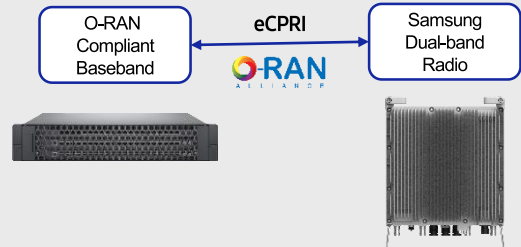
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



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.

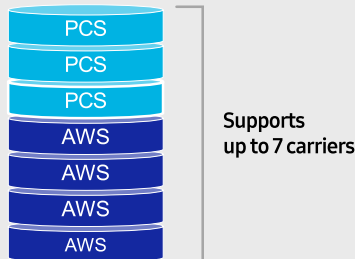
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

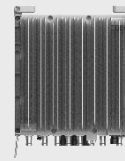
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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

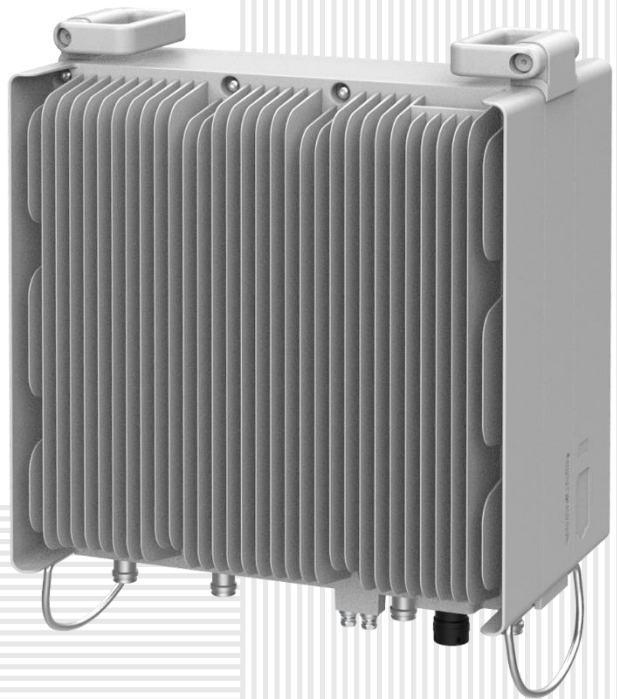
SAMSUNG

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

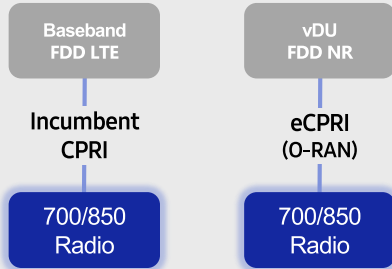


Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

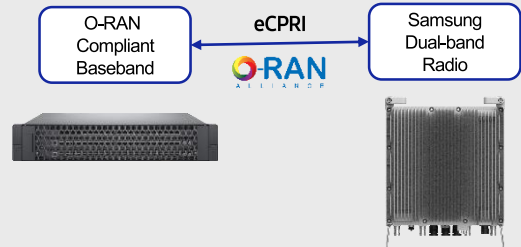
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



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.

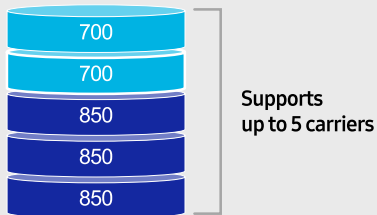
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

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

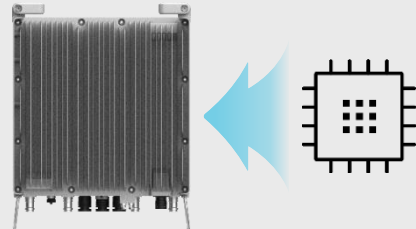
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



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

ATTACHMENT 3

	General	Power	Density					
Site Name: Ellington								
Tower Height: Verizon @ 177ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.EXP.	FRACTION MPE	Total
*T-Mobile	2	789	182.5	600	0.01821636	0.4	0.46%	
*T-Mobile	2	433	182.5	700	0.009997065	0.466666667	0.21%	
*T-Mobile	1	1469	182.5	1900	0.016958069	1	0.17%	
*T-Mobile	1	551	182.5	1900	0.006360719	1	0.06%	
*T-Mobile	2	2589	182.5	2100	0.059774596	1	0.60%	
*Crossroads	1	500	196	152.35	0.004980889	0.2	0.25%	
*Crossroads	backup for above antenna							
*AT&T	2	565	156	880	0.018060923	0.586666667	0.31%	
*AT&T	2	1077	156	1900	0.034427636	1	0.34%	
*AT&T	1	647	156	880	0.0103	0.586666667	0.18%	
*AT&T	4	813	156	1900	0.0520	1	0.52%	
*AT&T	1	1615	156	734	0.0258	0.489333333	0.53%	
VZW 700	4	689	177	751	0.0032	0.5007	0.63%	
VZW CDMA	2	310	177	878.49	0.0007	0.5857	0.12%	
VZW Cellular	4	700	177	874	0.0032	0.5827	0.55%	
VZW PCS	4	1500	177	1975	0.0069	1.0000	0.69%	
VZW AWS	4	1671	177	2120	0.0077	1.0000	0.77%	
VZW CBAND	2	21627	177	3730.08	0.0497	1.0000	4.97%	
								11.36%
* Source: Siting Council								

ATTACHMENT 4



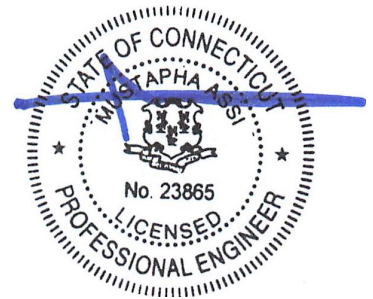
Tower Engineering Solutions

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

Structural Analysis Report

Existing 180 ft Rohn Self Supporting Tower
Customer Name: SBA Communications Corp
Customer Site Number: CT10008-A
Customer Site Name: Ellington
Carrier Name: Verizon (App#: 175681-2)
Carrier Site ID / Name: 467759 / Ellington CT
Site Location: 101 Burbank Road
Ellington, Connecticut
Tolland County
Latitude: 41.939764
Longitude: -72.387069

Exp. 01/31/2022



11/22/2021

Analysis Result:

Max Structural Usage: 69.9% [Pass]

Max Foundation Usage: 30.9% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By : Tawfeeq Alajaj



Tower Engineering Solutions

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

Structural Analysis Report

Existing 180 ft Rohn Self Supporting Tower
Customer Name: SBA Communications Corp
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Ellington, Connecticut
Tolland County
Latitude: 41.939764
Longitude: -72.387069

Analysis Result:

Max Structural Usage: 69.9% [Pass]
Max Foundation Usage: 30.9% [Pass]
Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By : Tawfeeq Alajaj

Introduction

The purpose of this report is to summarize the analysis results on the 180 ft Rohn Self Supporting Tower 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	Rohn File Number: 42895AE, dated: 05/30/2000.
Foundation Drawing	Rohn File Number: 42895AE, dated: 05/30/2000.
Geotechnical Report	Applied Earth Technologies (Site Address 101 Burbank Rd. Ellington ,CT) Report on Subsurface Investigation, dated February 14, 2000.
Modification Drawings	N/A
Mount Analysis	Verizon MA by Maser Consulting Connecticut Project #: 21777298A. Dated 09/03/2021.

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESTowers**, 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 $V_{ult} = 125.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 97.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" 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:	B
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft

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
1	189.0	1	Decibel DB222-A Dipole	Direct Mount	(1) 1 1/4"	NE Site Management
2	186.0	3	EMS RR90-17-02DP - Panels	(3) Sector Frames w/modifications	(12) 1 5/8" (1) 1 5/8" Fiber	T-Mobile
3		3	RFS APXVAARR24_43-U-NA20 - Panels			
4		3	Ericsson KRY 112 144/1 - TMAs			
5		3	Ericsson KRY 112 489/2 -TMAs			
6		3	Ericsson Radio 4449 B71+B12 -RRUs			
7		3	Kathrein 782 11056 - Bias Ts			
8	177.0	2	Antel BXA-70063-4CF-EDIN-X	(3) Sector Frames	(12) 1 5/8" (1) Fiber Cable	Verizon
9		4	Antel BXA-70080-4CF-EDIN-0			
10		6	Commscope HBXX-6517DS-A2M			
11		3	Alcatel Lucent 1900 RRH 2x60W			
12		3	Alcatel Lucent RRH AWS			
13		6	RFS Celwave FD9R6004/2C-3L			
14	157.0	3	Kathrein 800-10121	(3) Sector Frames	(12) 1 5/8" (1) 3" Flex Conduit (1) 3/8" RET	AT&T
15		4	Powerwave P65-17-XLH-RR			
16		2	KMW AM-X-CD-16-65-005-RET			
17		3	Powerwave 7770.00			
18		6	Powerwave TT19-08BP111-001			
19		6	CCI DTMABP7819VG12A			
20		6	Kathrein 860-10025			
21		6	Ericsson RRUS-11			
22		1	DC6-48-60-18-8F			
23	147.0	3	JMA Wireless MX08FRO665-21 - Panel	Platform w/HRK (1) Commscope MTC3975083	(1) 1.6" Hybrid	Dish Wireless
24		3	Fujitsu TA08025-B605 -			
25		3	Fujitsu TA08025-B604 -			
26		1	Raycap RDIDC-9181-PF-48-OVP - OVP			
27	78.0	1	Andrew GPS	Pipe Mount	(1) 1/2"	Verizon
28	32.0	1	GPS	Pipe Mount	(1) 1/2"	AT&T

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
8	177.0	6	CommScope - NHH-65B-R2B - Panel	(3) Sector Frames with (3) CommScope BSAMNT-SBS-1-2	(12) 1 5/8" (1) 1 5/8" Hybrid	Verizon
9		3	Samsung - MT6407-77A - Panel			
10		3	Antel - BXA-70080-4CF - Panel			
11		3	Samsung RF4439d-25A_AWS-PCS -			
12		3	Samsung RF4440d-13A_700-850MHz -			
13		1	Raycap RVZDC-6627-PF-48 - OVP			
27	78.0	1	Andrew GPS	Pipe Mount	(1) 1/2"	Verizon

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:

Tower Component	Legs	Diagonals	Horizontals
Max. Usage:	69.9%	66.5%	10.3%
Pass/Fail	Pass	Pass	Pass

Foundations

	Compression (Kips)	Uplift (Kips)	Shear (Kips)
Original Design Reactions	369.0	332.7	58.9
Analysis Reactions	321.8	279.5	32.3
Factored Reactions*	498.2	449.1	79.5
% of Design Reactions	64.6%	62.2%	40.6%

* Per section 15.5.1 of the TIA-222-G standard, factored reactions were obtained by multiplying a 1.35 factor to the original design 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 0.3244 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

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. 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.
3. 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 **TES**. 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, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** 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, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. 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.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Structure: CT10008-A-SBA

Site Name: Ellington	Code: EIA/TIA-222-G	11/22/2021
Type: Self Support	Base Shape: Triangle	Basic WS: 97.00
Height: 180.00 (ft)	Base Width: 21.12	Basic Ice WS: 50.00
Base Elev: 9.00 (ft)	Top Width: 4.58	Operational WS: 60.00



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Section Properties

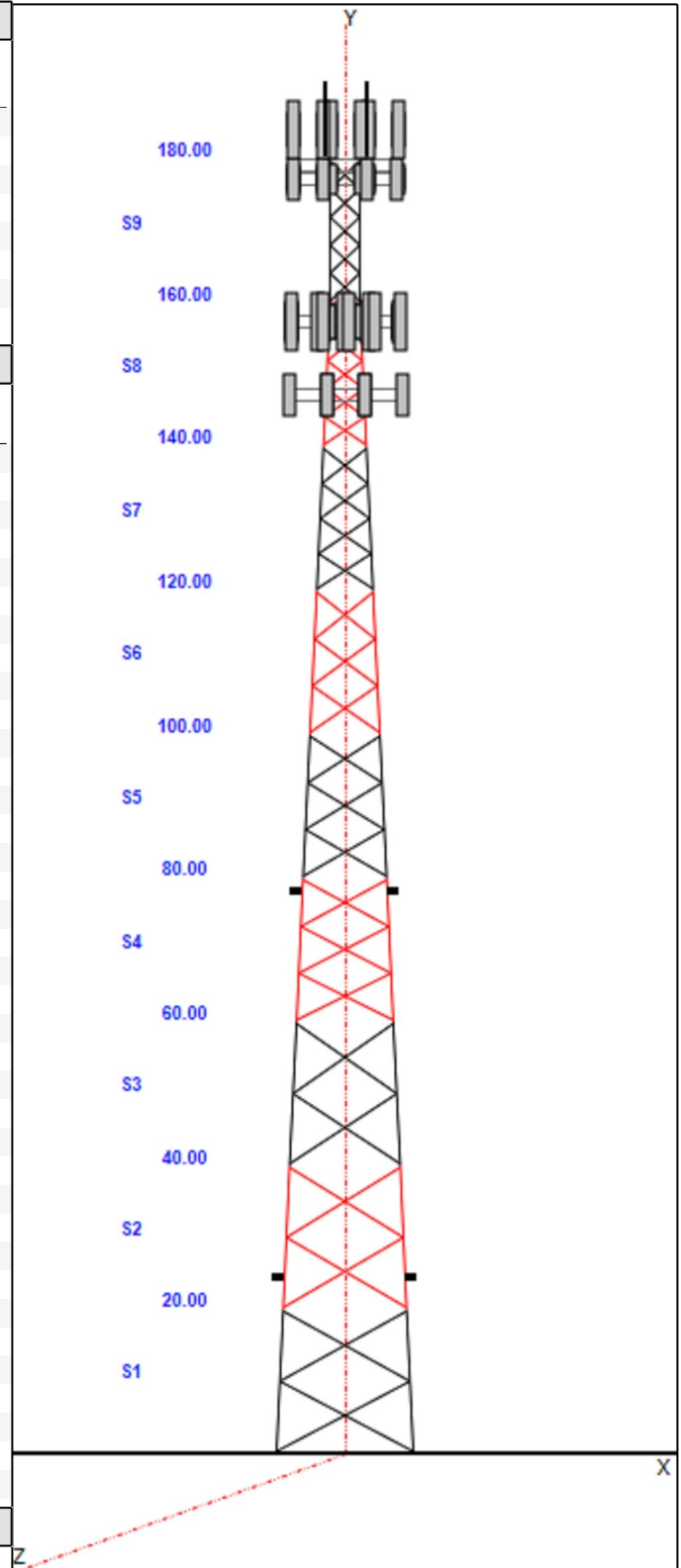
Sect	Leg Members	Diagonal Members	Horizontal Members
1-2	PX 8" DIA PIPE	SAE 4X4X0.25	
3	PSP ROHN 8 EHS	SAE 3.5X3.5X0.25	
4	PX 6" DIA PIPE	SAE 3X3X0.25	
5	PSP ROHN 6 EHS	SAE 2.5X2.5X0.25	
6	PX 5" DIA PIPE	SAE 2.5X2.5X0.25	
7	PX 4" DIA PIPE	SAE 2X2X0.25	
8	PX 3" DIA PIPE	SAE 2X2X0.25	SAE 2X2X0.25
9	PST 2-1/2" DIA PIPE	SAE 2X2X0.25	SAE 2X2X0.25

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description
180.00	185.29	1	Decibel DB222-A Dipole
179.00	179.00	1	(3) Stabilizer Kit (12' FW) + Suport Rail
179.00	179.00	1	(3) HR w/ Double V-Brace Kits
179.00	184.00	3	RR90-17-02DP
179.00	184.00	3	APXVAARR24_43-U-NA20
179.00	184.00	3	KRY 112 144/1
179.00	184.00	3	KRY 112 489/2
179.00	184.00	3	Radio 4449 B71+B12
179.00	184.00	3	782 11056
179.00	179.00	3	Light Sector Frame-Flat
177.00	177.00	6	NHH-65B-R2B
177.00	177.00	3	MT6407-77A
177.00	177.00	3	BXA-70080-4CF
177.00	177.00	3	RF4439d-25A_AWS-PCS
177.00	177.00	3	RF4440d-13A_700-850MHz
177.00	177.00	1	Raycap RVZDC-6627-PF-48
177.00	177.00	1	BSAMNT-SBS-1-2
177.00	177.00	3	Light Sector Frame-Flat
157.00	157.00	3	Light Sector Frame-Flat
157.00	157.00	3	Kathrein 800-10121
157.00	157.00	4	Powerwave P65-17-XLH-RR
157.00	157.00	2	KMW AM-X-CD-16-65-005-RET
157.00	157.00	3	Powerwave 7770.00
157.00	157.00	6	Powerwave TT19-08BP111-001
157.00	157.00	6	CCI DTMABP7819VG12A
157.00	157.00	6	Kathrein 860-10025
157.00	157.00	6	Ericsson RRUS-11
157.00	157.00	1	DC6-48-60-18-8F
147.00	147.00	3	JMA Wireless MX08FRO665-21
147.00	147.00	1	(3) MTC3975083
147.00	147.00	3	Fujitsu TA08025-B605
147.00	147.00	3	Fujitsu TA08025-B604
147.00	147.00	1	Raycap RDIDC-9181-PF-48-OVP
78.00	78.00	1	Andrew GPS
78.00	78.00	1	Pipe Mount
24.50	24.50	1	GPS
24.50	24.50	1	Pipe Mount

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Qty	Description
0.00	180.00	1	1 1/4" Coax



Structure: CT10008-A-SBA

Site Name: Ellington	Code: EIA/TIA-222-G	11/22/2021
Type: Self Support	Base Shape: Triangle	Basic WS: 97.00
Height: 180.00 (ft)	Base Width: 21.12	Basic Ice WS: 50.00
Base Elev: 9.00 (ft)	Top Width: 4.58	Operational WS: 60.00



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0.00	180.00	1	Safety Cable
0.00	178.50	12	1 5/8" Coax
0.00	178.50	1	1 5/8" Fiber
0.00	178.50	1	W/G Ladder
0.00	177.00	12	1 5/8" Coax
0.00	177.00	1	1 5/8" Hybrid
0.00	177.00	1	W/G Ladder
0.00	157.00	12	1 5/8" Coax
0.00	157.00	1	3" Flex Conduit
0.00	157.00	1	3/8" RET
0.00	157.00	1	W/G Ladder
0.00	147.00	1	1.6" Hybrid
0.00	78.00	1	1/2" Coax
0.00	24.50	1	1/2" Coax

Base Reactions

	Leg		Overturning
Max Uplift:	-279.47 (kips)	Moment:	5558.67 (ft-kips)
Max Down:	321.81 (kips)	Total Down:	53.70 (kips)
Max Shear:	32.27 (kips)	Total Shear:	52.01 (kips)

Structure: CT10008-A-SBA

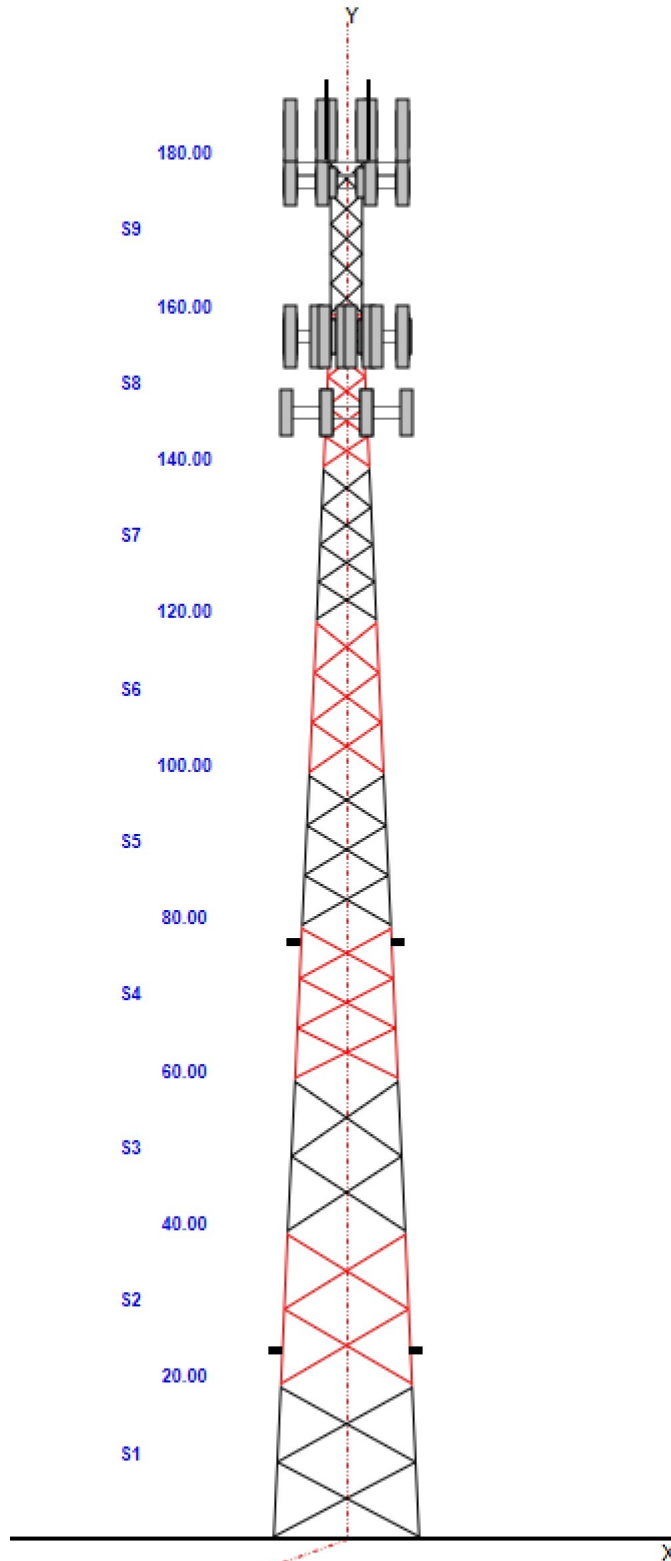
Site Name: Ellington
Type: Self Support
Height: 180.00 (ft)
Base Elev: 9.00 (ft)

Base Shape: Triangle
Base Width: 21.12
Top Width: 4.58

Code: EIA/TIA-222-G
Basic WS: 97.00
Basic Ice WS: 50.00
Operational WS: 60.00

11/22/2021

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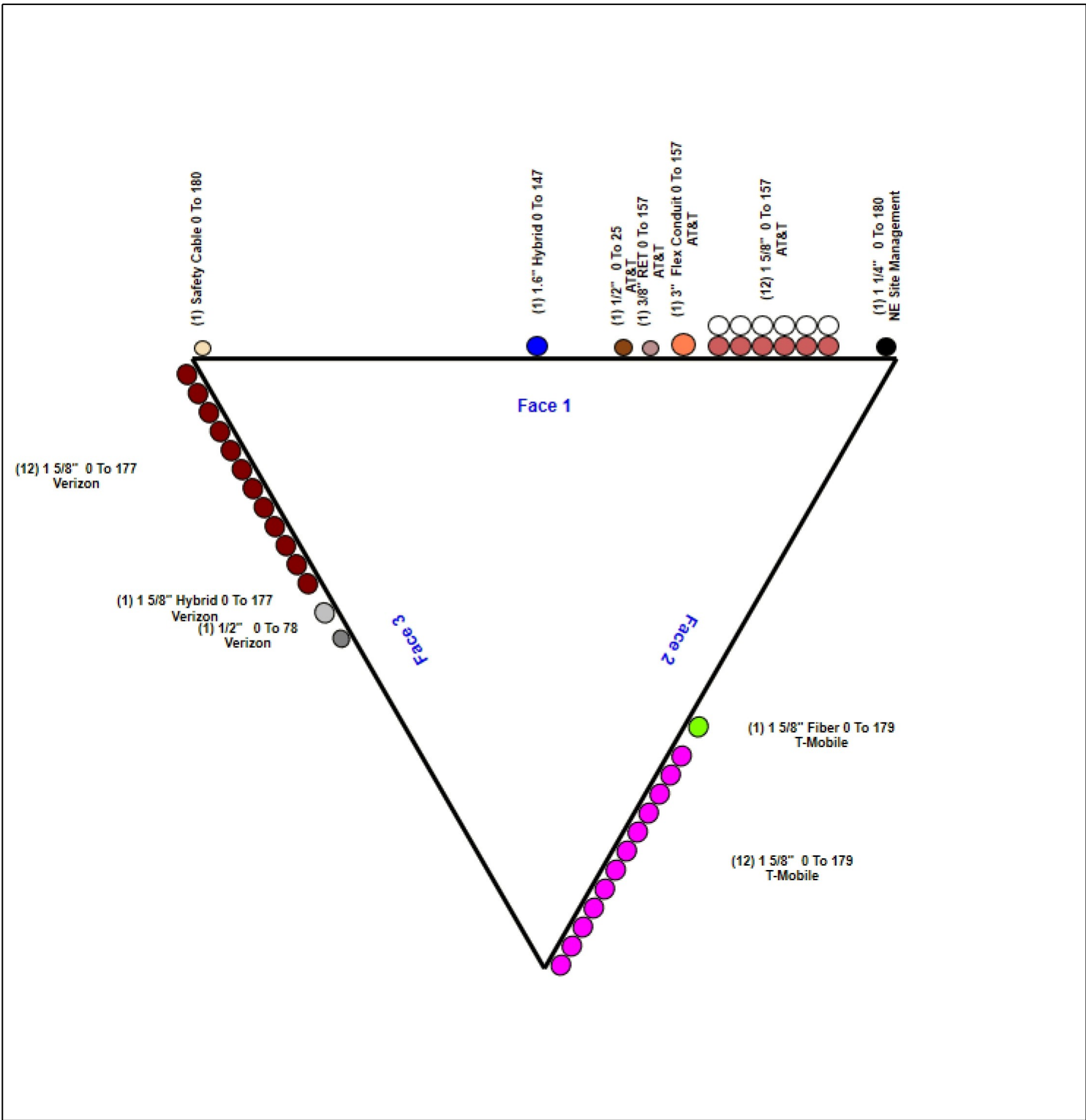
Structure: CT10008-A-SBA - Coax Line Placement

Type: Self Support
Site Name: Ellington
Height: 180.00 (ft)

11/22/2021



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Loading Summary

Structure: CT10008-A-SBA	Code: EIA/TIA-222-G	11/22/2021
Site Name: Ellington	Exposure: B	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 9.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Discrete Appurtenances Properties

Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
180.00	Decibel DB222-A Dipole	1	16.00	2.250	110.06	10.476	127.000	0.000	0.000	1.00	1.00	5.292
179.00	(3) Stabilizer Kit (12' FW) + Suport	1	180.00	8.000	486.95	19.369	0.000	0.000	0.000	1.00	1.00	0.000
179.00	(3) HR w/ Double V-Brace Kits	1	650.00	15.500	1758.43	37.527	0.000	0.000	0.000	1.00	1.00	0.000
179.00	RR90-17-02DP	3	13.50	4.360	161.80	5.744	56.000	8.000	2.800	0.80	0.68	5.000
179.00	APXVAARR24_43-U-NA20	3	128.00	20.240	721.19	22.853	95.900	24.000	7.800	0.80	0.70	5.000
179.00	KRY 112 144/1	3	11.00	0.410	25.63	1.055	6.900	6.100	2.700	0.80	0.67	5.000
179.00	KRY 112 489/2	3	6.60	0.490	28.30	1.251	11.000	4.600	4.500	0.80	0.67	5.000
179.00	Radio 4449 B71+B12	3	71.00	1.970	143.44	2.713	13.100	14.900	9.200	0.80	0.67	5.000
179.00	782 11056	3	2.60	0.280	11.46	0.825	5.700	5.000	1.500	0.80	0.67	5.000
179.00	Light Sector Frame-Flat	3	500.00	17.500	1447.38	36.400	0.000	0.000	0.000	0.75	0.75	0.000
177.00	NHH-65B-R2B	6	43.70	8.080	0.00	0.000	72.000	11.900	7.100	0.80	0.83	0.000
177.00	MT6407-77A	3	79.40	4.690	0.00	0.000	35.100	16.100	5.500	0.80	0.70	0.000
177.00	BXA-70080-4CF	3	12.00	3.560	0.00	0.000	47.500	8.000	6.100	0.80	0.88	0.000
177.00	RF4439d-25A_AWS-PCS	3	84.40	1.880	0.00	0.000	15.000	15.000	10.000	0.80	0.67	0.000
177.00	RF4440d-13A_700-850MHz	3	70.30	1.880	0.00	0.000	15.000	15.000	8.100	0.80	0.67	0.000
177.00	Raycap RVZDC-6627-PF-48	1	32.00	4.060	0.00	0.000	29.500	16.500	12.600	0.80	1.00	0.000
177.00	BSAMNT-SBS-1-2	1	25.35	0.000	26.50	0.000	0.000	0.000	0.000	0.75	1.00	0.000
177.00	Light Sector Frame-Flat	3	500.00	17.500	1447.38	36.400	0.000	0.000	0.000	0.75	0.75	0.000
157.00	Light Sector Frame-Flat	3	500.00	17.500	1436.22	36.178	0.000	0.000	0.000	0.75	0.75	0.000
157.00	Kathrein 800-10121	3	44.10	5.150	198.14	7.975	54.500	10.300	5.900	0.80	0.79	0.000
157.00	Powerwave P65-17-XLH-RR	4	59.00	11.440	349.49	15.778	96.000	12.000	6.000	0.80	0.75	0.000
157.00	KMW AM-X-CD-16-65-005-RET	2	41.80	8.020	259.46	11.767	72.000	11.800	5.900	0.80	0.75	0.000
157.00	Powerwave 7770.00	3	35.00	5.500	230.59	6.961	55.000	11.000	5.000	0.80	0.73	0.000
157.00	Powerwave TT19-08BP111-001	6	16.00	0.640	43.14	1.435	9.900	6.700	5.400	0.80	0.67	0.000
157.00	CCI DTMABP7819VG12A	6	19.20	1.140	53.43	2.172	10.600	11.000	3.800	0.80	0.67	0.000
157.00	Kathrein 860-10025	6	1.10	0.160	8.30	0.626	6.900	2.400	2.000	0.80	0.67	0.000
157.00	Ericsson RRUS-11	6	51.00	2.520	147.93	3.369	17.000	17.800	7.200	0.80	0.67	0.000
157.00	DC6-48-60-18-8F	1	31.80	0.920	114.71	1.507	24.000	11.000	11.000	0.80	0.67	0.000
147.00	JMA Wireless MX08FRO665-21	3	64.50	12.490	454.60	14.454	72.000	20.000	8.000	0.80	0.74	0.000
147.00	(3) MTC3975083	1	1242.0	28.050	2869.90	75.320	0.000	0.000	0.000	0.75	1.00	0.000
147.00	Fujitsu TA08025-B605	3	75.00	1.960	145.15	2.712	15.800	15.000	9.100	0.80	0.67	0.000
147.00	Fujitsu TA08025-B604	3	63.90	1.960	131.80	2.712	15.800	15.000	7.900	0.80	0.67	0.000
147.00	Raycap RDIDC-9181-PF-48-OVP	1	21.90	2.010	93.31	2.772	16.600	14.600	8.500	1.00	1.00	0.000
78.00	Andrew GPS	1	10.00	0.160	16.93	0.640	8.000	2.000	2.000	1.00	1.00	0.000
78.00	Pipe Mount	1	350.00	1.500	716.65	2.809	0.000	0.000	0.000	1.00	1.00	0.000
24.50	GPS	1	10.00	0.160	16.46	0.608	8.000	2.000	2.000	1.00	1.00	0.000
24.50	Pipe Mount	1	350.00	1.500	691.66	2.720	0.000	0.000	0.000	1.00	1.00	0.000
Totals:		102	10,808.55		30,084.46					Number of Appurtenances : 37		

Loading Summary

Structure: CT10008-A-SBA	Code: EIA/TIA-222-G	11/22/2021
Site Name: Ellington	Exposure: B	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 9.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Linear Appurtenances Properties

Elev. From (ft)	Elev. To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	180.00	1 1/4" Coax	1	1.55	0.66	100.00	1	Individual NR		N	1.00	1.00	
0.00	180.00	Safety Cable	1	0.38	0.27	100.00	1	Individual NR		N	1.00	1.00	
0.00	178.50	1 5/8" Coax	12	1.98	1.04	100.00	2	Individual IR		N	1.00	1.00	
0.00	178.50	1 5/8" Fiber	1	2.00	1.10	100.00	2	Individual NR		N	1.00	1.00	
0.00	178.50	W/G Ladder	1	2.00	6.00	100.00	2	Individual NR		N	1.00	1.00	
0.00	177.00	1 5/8" Coax	12	1.98	1.04	100.00	3	Individual IR		N	1.00	1.00	
0.00	177.00	1 5/8" Hybrid	1	2.00	1.10	100.00	3	Individual NR		N	1.00	1.00	
0.00	177.00	W/G Ladder	1	2.00	6.00	100.00	3	Individual NR		N	1.00	1.00	
0.00	157.00	1 5/8" Coax	12	1.98	1.04	50.00	1	Block		N	0.50	1.00	
0.00	157.00	3" Flex Conduit	1	3.02	1.78	100.00	1	Individual NR		N	1.00	1.00	
0.00	157.00	3/8" RET	1	0.38	0.06	100.00	1	Individual NR		N	1.00	1.00	
0.00	157.00	W/G Ladder	1	2.00	6.00	100.00	1	Individual NR		N	1.00	1.00	
0.00	147.00	1.6" Hybrid	1	1.60	1.82	100.00	1	Individual NR		N	1.00	1.00	
0.00	78.00	1/2" Coax	1	0.65	0.16	100.00	3	Individual NR		N	1.00	1.00	
0.00	24.50	1/2" Coax	1	0.65	0.16	100.00	1	Individual NR		N	1.00	1.00	

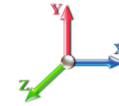
Section Forces

Structure: CT10008-A-SBA
Site Name: Ellington
Height: 180.00 (ft)
Base Elev: 9.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

11/22/2021



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Load Case: 1.2D + 1.6W Normal Wind

1.2D + 1.6W 97 mph Wind at Normal To Face

Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	Ice Importance Factor: 1.00
Ice Dead Load Factor: 0.00	

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	14.33	28.808	28.80	0.00	0.14	2.81	1.00	1.00	0.00	41.49	133.53	0.00	6,755.6	0.0	2275.62	2051.61	4,327.23
2	30.0	15.46	26.417	28.80	0.00	0.15	2.78	1.00	1.00	0.00	38.89	132.69	0.00	6,581.5	0.0	2275.46	2200.47	4,475.92
3	50.0	17.40	21.031	28.81	0.00	0.15	2.78	1.00	1.00	0.00	33.08	132.45	0.00	5,449.5	0.0	2172.48	2472.60	4,645.08
4	70.0	18.92	22.214	22.12	0.00	0.15	2.76	1.00	1.00	0.00	32.79	132.34	0.00	5,183.4	0.0	2327.77	2685.66	5,013.43
5	90.0	20.18	16.204	22.13	0.00	0.15	2.75	1.00	1.00	0.00	26.62	131.37	0.00	4,338.1	0.0	2012.13	2845.27	4,857.40
6	110.0	21.26	14.054	18.58	0.00	0.16	2.73	1.00	1.00	0.00	23.46	131.37	0.00	4,029.3	0.0	1855.13	2998.85	4,853.98
7	130.0	22.23	11.609	15.03	0.00	0.17	2.71	1.00	1.00	0.00	19.77	131.37	0.00	3,408.4	0.0	1622.06	3134.96	4,757.01
8	150.0	23.10	11.624	11.69	0.00	0.20	2.60	1.00	1.00	0.00	18.33	124.69	0.00	2,969.1	0.0	1499.63	3078.81	4,578.44
9	170.0	23.89	10.350	9.58	0.00	0.21	2.57	1.00	1.00	0.00	15.87	85.33	0.00	2,016.8	0.0	1326.96	2088.87	3,415.83
														40,731.6	0.0			40,924.33

Load Case: 1.2D + 1.6W 60° Wind

1.2D + 1.6W 97 mph Wind at 60° From Face

Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	Ice Importance Factor: 1.00
Ice Dead Load Factor: 0.00	

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	14.33	28.808	28.80	0.00	0.14	2.81	0.80	1.00	0.00	35.72	133.53	0.00	6,755.6	0.0	1959.57	2051.61	4,011.18
2	30.0	15.46	26.417	28.80	0.00	0.15	2.78	0.80	1.00	0.00	33.61	132.69	0.00	6,581.5	0.0	1966.33	2200.47	4,166.80
3	50.0	17.40	21.031	28.81	0.00	0.15	2.78	0.80	1.00	0.00	28.87	132.45	0.00	5,449.5	0.0	1896.22	2472.60	4,368.82
4	70.0	18.92	22.214	22.12	0.00	0.15	2.76	0.80	1.00	0.00	28.35	132.34	0.00	5,183.4	0.0	2012.37	2685.66	4,698.03
5	90.0	20.18	16.204	22.13	0.00	0.15	2.75	0.80	1.00	0.00	23.38	131.37	0.00	4,338.1	0.0	1767.18	2845.27	4,612.45
6	110.0	21.26	14.054	18.58	0.00	0.16	2.73	0.80	1.00	0.00	20.65	131.37	0.00	4,029.3	0.0	1632.82	2998.85	4,631.67
7	130.0	22.23	11.609	15.03	0.00	0.17	2.71	0.80	1.00	0.00	17.45	131.37	0.00	3,408.4	0.0	1431.56	3134.96	4,566.51
8	150.0	23.10	11.624	11.69	0.00	0.20	2.60	0.80	1.00	0.00	16.01	124.69	0.00	2,969.1	0.0	1309.47	3078.81	4,388.28
9	170.0	23.89	10.350	9.58	0.00	0.21	2.57	0.80	1.00	0.00	13.80	85.33	0.00	2,016.8	0.0	1153.85	2088.87	3,242.72
														40,731.6	0.0			38,686.47

Section Forces

Structure: CT10008-A-SBA
Site Name: Ellington
Height: 180.00 (ft)
Base Elev: 9.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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Load Case: 1.2D + 1.6W 90° Wind

1.2D + 1.6W 97 mph Wind at 90° From Face

Wind Load Factor: 1.60
Dead Load Factor: 1.20
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	14.33	28.808	28.80	0.00	0.14	2.81	0.85	1.00	0.00	37.16	133.53	0.00	6,755.6	0.0	2038.59	2051.61	4,090.19
2	30.0	15.46	26.417	28.80	0.00	0.15	2.78	0.85	1.00	0.00	34.93	132.69	0.00	6,581.5	0.0	2043.61	2200.47	4,244.08
3	50.0	17.40	21.031	28.81	0.00	0.15	2.78	0.85	1.00	0.00	29.92	132.45	0.00	5,449.5	0.0	1965.28	2472.60	4,437.88
4	70.0	18.92	22.214	22.12	0.00	0.15	2.76	0.85	1.00	0.00	29.46	132.34	0.00	5,183.4	0.0	2091.22	2685.66	4,776.88
5	90.0	20.18	16.204	22.13	0.00	0.15	2.75	0.85	1.00	0.00	24.19	131.37	0.00	4,338.1	0.0	1828.42	2845.27	4,673.69
6	110.0	21.26	14.054	18.58	0.00	0.16	2.73	0.85	1.00	0.00	21.35	131.37	0.00	4,029.3	0.0	1688.39	2998.85	4,687.25
7	130.0	22.23	11.609	15.03	0.00	0.17	2.71	0.85	1.00	0.00	18.03	131.37	0.00	3,408.4	0.0	1479.18	3134.96	4,614.14
8	150.0	23.10	11.624	11.69	0.00	0.20	2.60	0.85	1.00	0.00	16.59	124.69	0.00	2,969.1	0.0	1357.01	3078.81	4,435.82
9	170.0	23.89	10.350	9.58	0.00	0.21	2.57	0.85	1.00	0.00	14.31	85.33	0.00	2,016.8	0.0	1197.13	2088.87	3,286.00
40,731.6														0.0	39,245.93			

Load Case: 0.9D + 1.6W Normal Wind

0.9D + 1.6W 97 mph Wind at Normal To Face

Wind Load Factor: 1.60
Dead Load Factor: 0.90
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	14.33	28.808	28.80	0.00	0.14	2.81	1.00	1.00	0.00	41.49	133.53	0.00	5,066.7	0.0	2275.62	2051.61	4,327.23
2	30.0	15.46	26.417	28.80	0.00	0.15	2.78	1.00	1.00	0.00	38.89	132.69	0.00	4,936.1	0.0	2275.46	2200.47	4,475.92
3	50.0	17.40	21.031	28.81	0.00	0.15	2.78	1.00	1.00	0.00	33.08	132.45	0.00	4,087.1	0.0	2172.48	2472.60	4,645.08
4	70.0	18.92	22.214	22.12	0.00	0.15	2.76	1.00	1.00	0.00	32.79	132.34	0.00	3,887.5	0.0	2327.77	2685.66	5,013.43
5	90.0	20.18	16.204	22.13	0.00	0.15	2.75	1.00	1.00	0.00	26.62	131.37	0.00	3,253.6	0.0	2012.13	2845.27	4,857.40
6	110.0	21.26	14.054	18.58	0.00	0.16	2.73	1.00	1.00	0.00	23.46	131.37	0.00	3,022.0	0.0	1855.13	2998.85	4,853.98
7	130.0	22.23	11.609	15.03	0.00	0.17	2.71	1.00	1.00	0.00	19.77	131.37	0.00	2,556.3	0.0	1622.06	3134.96	4,757.01
8	150.0	23.10	11.624	11.69	0.00	0.20	2.60	1.00	1.00	0.00	18.33	124.69	0.00	2,226.8	0.0	1499.63	3078.81	4,578.44
9	170.0	23.89	10.350	9.58	0.00	0.21	2.57	1.00	1.00	0.00	15.87	85.33	0.00	1,512.6	0.0	1326.96	2088.87	3,415.83
30,548.7														0.0	40,924.33			

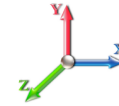
Section Forces

Structure: CT10008-A-SBA
Site Name: Ellington
Height: 180.00 (ft)
Base Elev: 9.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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Load Case: 0.9D + 1.6W 60° Wind	0.9D + 1.6W 97 mph Wind at 60° From Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 0.90	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	14.33	28.808	28.80	0.00	0.14	2.81	0.80	1.00	0.00	35.72	133.53	0.00	5,066.7	0.0	1959.57	2051.61	4,011.18
2	30.0	15.46	26.417	28.80	0.00	0.15	2.78	0.80	1.00	0.00	33.61	132.69	0.00	4,936.1	0.0	1966.33	2200.47	4,166.80
3	50.0	17.40	21.031	28.81	0.00	0.15	2.78	0.80	1.00	0.00	28.87	132.45	0.00	4,087.1	0.0	1896.22	2472.60	4,368.82
4	70.0	18.92	22.214	22.12	0.00	0.15	2.76	0.80	1.00	0.00	28.35	132.34	0.00	3,887.5	0.0	2012.37	2685.66	4,698.03
5	90.0	20.18	16.204	22.13	0.00	0.15	2.75	0.80	1.00	0.00	23.38	131.37	0.00	3,253.6	0.0	1767.18	2845.27	4,612.45
6	110.0	21.26	14.054	18.58	0.00	0.16	2.73	0.80	1.00	0.00	20.65	131.37	0.00	3,022.0	0.0	1632.82	2998.85	4,631.67
7	130.0	22.23	11.609	15.03	0.00	0.17	2.71	0.80	1.00	0.00	17.45	131.37	0.00	2,556.3	0.0	1431.56	3134.96	4,566.51
8	150.0	23.10	11.624	11.69	0.00	0.20	2.60	0.80	1.00	0.00	16.01	124.69	0.00	2,226.8	0.0	1309.47	3078.81	4,388.28
9	170.0	23.89	10.350	9.58	0.00	0.21	2.57	0.80	1.00	0.00	13.80	85.33	0.00	1,512.6	0.0	1153.85	2088.87	3,242.72
														30,548.7	0.0			38,686.47

Load Case: 0.9D + 1.6W 90° Wind	0.9D + 1.6W 97 mph Wind at 90° From Face
Wind Load Factor: 1.60	Wind Importance Factor: 1.00
Dead Load Factor: 0.90	
Ice Dead Load Factor: 0.00	Ice Importance Factor: 1.00

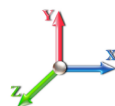
Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1	10.0	14.33	28.808	28.80	0.00	0.14	2.81	0.85	1.00	0.00	37.16	133.53	0.00	5,066.7	0.0	2038.59	2051.61	4,090.19
2	30.0	15.46	26.417	28.80	0.00	0.15	2.78	0.85	1.00	0.00	34.93	132.69	0.00	4,936.1	0.0	2043.61	2200.47	4,244.08
3	50.0	17.40	21.031	28.81	0.00	0.15	2.78	0.85	1.00	0.00	29.92	132.45	0.00	4,087.1	0.0	1965.28	2472.60	4,437.88
4	70.0	18.92	22.214	22.12	0.00	0.15	2.76	0.85	1.00	0.00	29.46	132.34	0.00	3,887.5	0.0	2091.22	2685.66	4,776.88
5	90.0	20.18	16.204	22.13	0.00	0.15	2.75	0.85	1.00	0.00	24.19	131.37	0.00	3,253.6	0.0	1828.42	2845.27	4,673.69
6	110.0	21.26	14.054	18.58	0.00	0.16	2.73	0.85	1.00	0.00	21.35	131.37	0.00	3,022.0	0.0	1688.39	2998.85	4,687.25
7	130.0	22.23	11.609	15.03	0.00	0.17	2.71	0.85	1.00	0.00	18.03	131.37	0.00	2,556.3	0.0	1479.18	3134.96	4,614.14
8	150.0	23.10	11.624	11.69	0.00	0.20	2.60	0.85	1.00	0.00	16.59	124.69	0.00	2,226.8	0.0	1357.01	3078.81	4,435.82
9	170.0	23.89	10.350	9.58	0.00	0.21	2.57	0.85	1.00	0.00	14.31	85.33	0.00	1,512.6	0.0	1197.13	2088.87	3,286.00
														30,548.7	0.0			39,245.93

Section Forces

Structure: CT10008-A-SBA
Site Name: Ellington
Height: 180.00 (ft)
Base Elev: 9.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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Load Case: 1.2D + 1.0Di + 1.0Wi Normal Wind

1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face

Wind Load Factor: 1.00
Dead Load Factor: 1.20
Ice Dead Load Factor: 1.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Linear Area (sqft)	Linear Area (sqft)					
1	10.0	3.81	28.808	69.61	40.81	0.23	2.49	1.00	1.00	1.89	69.25	208.05	56.78	17,700.	10944.6	558.01	804.64	1,362.65
2	30.0	4.11	26.417	70.21	41.42	0.25	2.43	1.00	1.00	2.03	67.54	210.03	55.76	18,040.	11458.6	572.93	866.20	1,439.13
3	50.0	4.62	21.031	69.45	40.65	0.26	2.39	1.00	1.00	2.12	61.93	211.51	56.52	16,720.	11270.6	582.52	979.51	1,562.02
4	70.0	5.03	22.214	70.22	48.10	0.31	2.27	1.00	1.00	2.18	64.53	212.66	57.47	16,850.	11666.9	624.53	1055.15	1,679.68
5	90.0	5.36	16.204	67.20	45.08	0.33	2.23	1.00	1.00	2.23	57.04	212.68	52.09	15,290.	10952.0	578.98	1100.50	1,679.47
6	110.0	5.65	14.054	60.38	41.80	0.35	2.17	1.00	1.00	2.27	51.30	213.51	53.05	14,633.	10603.8	533.82	1157.39	1,691.21
7	130.0	5.91	11.609	58.41	43.39	0.42	2.03	1.00	1.00	2.31	49.19	214.22	53.88	13,738.	10330.0	502.05	1164.09	1,666.14
8	150.0	6.14	11.624	55.78	44.09	0.54	1.86	1.00	1.00	2.34	50.95	205.83	47.20	12,908.	9939.8	493.76	911.46	1,377.51
9	170.0	6.35	10.350	50.93	41.34	0.59	1.81	1.00	1.00	2.37	47.83	145.90	29.80	9,640.9	7624.2	467.77	582.77	1,050.54
														135,522.1	94790.5			13,508.37

Load Case: 1.2D + 1.0Di + 1.0Wi 60° Wind

1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face

Wind Load Factor: 1.00
Dead Load Factor: 1.20
Ice Dead Load Factor: 1.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Linear Area (sqft)	Linear Area (sqft)					
1	10.0	3.81	28.808	69.61	40.81	0.23	2.49	0.80	1.00	1.89	63.49	208.05	56.78	17,700.	10944.6	511.58	804.64	1,316.23
2	30.0	4.11	26.417	70.21	41.42	0.25	2.43	0.80	1.00	2.03	62.25	210.03	55.76	18,040.	11458.6	528.11	866.20	1,394.31
3	50.0	4.62	21.031	69.45	40.65	0.26	2.39	0.80	1.00	2.12	57.72	211.51	56.52	16,720.	11270.6	542.95	979.51	1,522.46
4	70.0	5.03	22.214	70.22	48.10	0.31	2.27	0.80	1.00	2.18	60.09	212.66	57.47	16,850.	11666.9	581.54	1055.15	1,636.69
5	90.0	5.36	16.204	67.20	45.08	0.33	2.23	0.80	1.00	2.23	53.80	212.68	52.09	15,290.	10952.0	546.08	1100.50	1,646.58
6	110.0	5.65	14.054	60.38	41.80	0.35	2.17	0.80	1.00	2.27	48.49	213.51	53.05	14,633.	10603.8	504.57	1157.39	1,661.96
7	130.0	5.91	11.609	58.41	43.39	0.42	2.03	0.80	1.00	2.31	46.87	214.22	53.88	13,738.	10330.0	478.35	1164.09	1,642.44
8	150.0	6.14	11.624	55.78	44.09	0.54	1.86	0.80	1.00	2.34	48.63	205.83	47.20	12,908.	9939.8	471.23	911.46	1,382.69
9	170.0	6.35	10.350	50.93	41.34	0.59	1.81	0.80	1.00	2.37	45.76	145.90	29.80	9,640.9	7624.2	447.53	582.77	1,030.30
														135,522.1	94790.5			13,233.65

Section Forces

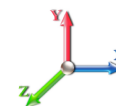
Structure: CT10008-A-SBA

Code: EIA/TIA-222-G

11/22/2021

Site Name: Ellington

Exposure: B



Height: 180.00 (ft)

Crest Height: 0.00

Base Elev: 9.000 (ft)

Site Class: D - Stiff Soil

Gh: 0.85

Topography: 1

Struct Class: II

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Load Case: 1.2D + 1.0Di + 1.0Wi 90° Wind

1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face

Wind Load Factor: 1.00

Wind Importance Factor: 1.00

Dead Load Factor: 1.20

Ice Dead Load Factor: 1.00

Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Linear Area (sqft)	Linear Area (sqft)					
1	10.0	3.81	28.808	69.61	40.81	0.23	2.49	0.85	1.00	1.89	64.93	208.05	56.78	17,700.	10944.6	523.19	804.64	1,327.83
2	30.0	4.11	26.417	70.21	41.42	0.25	2.43	0.85	1.00	2.03	63.57	210.03	55.76	18,040.	11458.6	539.32	866.20	1,405.52
3	50.0	4.62	21.031	69.45	40.65	0.26	2.39	0.85	1.00	2.12	58.77	211.51	56.52	16,720.	11270.6	552.84	979.51	1,532.35
4	70.0	5.03	22.214	70.22	48.10	0.31	2.27	0.85	1.00	2.18	61.20	212.66	57.47	16,850.	11666.9	592.29	1055.15	1,647.44
5	90.0	5.36	16.204	67.20	45.08	0.33	2.23	0.85	1.00	2.23	54.61	212.68	52.09	15,290.	10952.0	554.31	1100.50	1,654.80
6	110.0	5.65	14.054	60.38	41.80	0.35	2.17	0.85	1.00	2.27	49.19	213.51	53.05	14,633.	10603.8	511.88	1157.39	1,669.27
7	130.0	5.91	11.609	58.41	43.39	0.42	2.03	0.85	1.00	2.31	47.45	214.22	53.88	13,738.	10330.0	484.27	1164.09	1,648.36
8	150.0	6.14	11.624	55.78	44.09	0.54	1.86	0.85	1.00	2.34	49.21	205.83	47.20	12,908.	9939.8	476.86	911.46	1,388.32
9	170.0	6.35	10.350	50.93	41.34	0.59	1.81	0.85	1.00	2.37	46.28	145.90	29.80	9,640.9	7624.2	452.59	582.77	1,035.36
														135,522.1	94790.5			13,309.26

Load Case: 1.0D + 1.0W Normal Wind

1.0D + 1.0W 60 mph Wind at Normal To Face

Wind Load Factor: 1.00

Wind Importance Factor: 1.00

Dead Load Factor: 1.00

Ice Dead Load Factor: 0.00

Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Linear Area (sqft)	Linear Area (sqft)					
1	10.0	5.48	28.808	28.80	0.00	0.14	2.81	1.00	1.00	0.00	44.56	133.53	0.00	5,629.7	0.0	584.51	490.61	1,075.11
2	30.0	5.92	26.417	28.80	0.00	0.15	2.78	1.00	1.00	0.00	42.01	132.69	0.00	5,484.6	0.0	587.80	526.20	1,114.01
3	50.0	6.66	21.031	28.81	0.00	0.15	2.78	1.00	1.00	0.00	36.33	132.45	0.00	4,541.2	0.0	570.66	591.28	1,161.94
4	70.0	7.24	22.214	22.12	0.00	0.15	2.76	1.00	1.00	0.00	34.78	132.34	0.00	4,319.5	0.0	590.36	642.23	1,232.59
5	90.0	7.72	16.204	22.13	0.00	0.15	2.75	1.00	1.00	0.00	28.68	131.37	0.00	3,615.1	0.0	518.41	680.40	1,198.81
6	110.0	8.14	14.054	18.58	0.00	0.16	2.73	1.00	1.00	0.00	24.62	131.37	0.00	3,357.7	0.0	465.60	717.12	1,182.72
7	130.0	8.51	11.609	15.03	0.00	0.17	2.71	1.00	1.00	0.00	20.16	131.37	0.00	2,840.3	0.0	395.63	749.67	1,145.30
8	150.0	8.84	11.624	11.69	0.00	0.20	2.60	1.00	1.00	0.00	18.33	124.69	0.00	2,474.2	0.0	358.61	736.24	1,094.86
9	170.0	9.14	10.350	9.58	0.00	0.21	2.57	1.00	1.00	0.00	15.87	85.33	0.00	1,680.7	0.0	317.32	499.52	816.84
														33,943.0	0.0			10,022.18

Section Forces

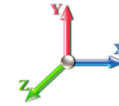
Structure: CT10008-A-SBA

Code: EIA/TIA-222-G

11/22/2021

Site Name: Ellington

Exposure: B



Height: 180.00 (ft)

Crest Height: 0.00

Base Elev: 9.000 (ft)

Site Class: D - Stiff Soil

Gh: 0.85

Topography: 1

Struct Class: II

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Load Case: 1.0D + 1.0W 60° Wind

1.0D + 1.0W 60 mph Wind at 60° From Face

Wind Load Factor: 1.00

Wind Importance Factor: 1.00

Dead Load Factor: 1.00

Ice Dead Load Factor: 0.00

Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	5.48	28.808	28.80	0.00	0.14	2.81	0.80	1.00	0.00	38.80	133.53	0.00	5,629.7	0.0	508.93	490.61	999.54
2	30.0	5.92	26.417	28.80	0.00	0.15	2.78	0.80	1.00	0.00	36.73	132.69	0.00	5,484.6	0.0	513.88	526.20	1,040.08
3	50.0	6.66	21.031	28.81	0.00	0.15	2.78	0.80	1.00	0.00	32.13	132.45	0.00	4,541.2	0.0	504.60	591.28	1,095.88
4	70.0	7.24	22.214	22.12	0.00	0.15	2.76	0.80	1.00	0.00	30.33	132.34	0.00	4,319.5	0.0	514.94	642.23	1,157.17
5	90.0	7.72	16.204	22.13	0.00	0.15	2.75	0.80	1.00	0.00	25.44	131.37	0.00	3,615.1	0.0	459.83	680.40	1,140.23
6	110.0	8.14	14.054	18.58	0.00	0.16	2.73	0.80	1.00	0.00	21.81	131.37	0.00	3,357.7	0.0	412.44	717.12	1,129.56
7	130.0	8.51	11.609	15.03	0.00	0.17	2.71	0.80	1.00	0.00	17.84	131.37	0.00	2,840.3	0.0	350.08	749.67	1,099.75
8	150.0	8.84	11.624	11.69	0.00	0.20	2.60	0.80	1.00	0.00	16.01	124.69	0.00	2,474.2	0.0	313.14	736.24	1,049.38
9	170.0	9.14	10.350	9.58	0.00	0.21	2.57	0.80	1.00	0.00	13.80	85.33	0.00	1,680.7	0.0	275.92	499.52	775.44
														33,943.0	0.0			9,487.03

Load Case: 1.0D + 1.0W 90° Wind

1.0D + 1.0W 60 mph Wind at 90° From Face

Wind Load Factor: 1.00

Wind Importance Factor: 1.00

Dead Load Factor: 1.00

Ice Dead Load Factor: 0.00

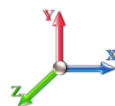
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	5.48	28.808	28.80	0.00	0.14	2.81	0.85	1.00	0.00	40.24	133.53	0.00	5,629.7	0.0	527.82	490.61	1,018.43
2	30.0	5.92	26.417	28.80	0.00	0.15	2.78	0.85	1.00	0.00	38.05	132.69	0.00	5,484.6	0.0	532.36	526.20	1,058.56
3	50.0	6.66	21.031	28.81	0.00	0.15	2.78	0.85	1.00	0.00	33.18	132.45	0.00	4,541.2	0.0	521.12	591.28	1,112.40
4	70.0	7.24	22.214	22.12	0.00	0.15	2.76	0.85	1.00	0.00	31.44	132.34	0.00	4,319.5	0.0	533.79	642.23	1,176.02
5	90.0	7.72	16.204	22.13	0.00	0.15	2.75	0.85	1.00	0.00	26.25	131.37	0.00	3,615.1	0.0	474.48	680.40	1,154.88
6	110.0	8.14	14.054	18.58	0.00	0.16	2.73	0.85	1.00	0.00	22.51	131.37	0.00	3,357.7	0.0	425.73	717.12	1,142.85
7	130.0	8.51	11.609	15.03	0.00	0.17	2.71	0.85	1.00	0.00	18.42	131.37	0.00	2,840.3	0.0	361.46	749.67	1,111.14
8	150.0	8.84	11.624	11.69	0.00	0.20	2.60	0.85	1.00	0.00	16.59	124.69	0.00	2,474.2	0.0	324.51	736.24	1,060.75
9	170.0	9.14	10.350	9.58	0.00	0.21	2.57	0.85	1.00	0.00	14.31	85.33	0.00	1,680.7	0.0	286.27	499.52	785.79
														33,943.0	0.0			9,620.82

Force/Stress Compression Summary

Structure: CT10008-A-SBA
Site Name: Ellington
Height: 180.00 (ft)
Base Elev: 9.000 (ft)
Gh: 0.85

Code: EIA/TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II
Topography: 1

11/22/2021

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LEG MEMBERS

Sect	Top Elev	Member	Force		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls	
			(kips)				X	Y	Z					KL/R
1	20	PX - 8" DIA PIPE	-314.73	1.2D + 1.6W	Normal Wind	9.77	100	100	100	40.73	50.00	508.62	61.9	Member X
2	40	PX - 8" DIA PIPE	-284.80	1.2D + 1.6W	Normal Wind	9.77	100	100	100	40.72	50.00	508.65	56.0	Member X
3	60	PSP - ROHN 8 EHS	-253.05	1.2D + 1.6W	Normal Wind	9.77	100	100	100	40.15	50.00	388.77	65.1	Member X
4	80	PX - 6" DIA PIPE	-224.40	1.2D + 1.6W	Normal Wind	6.51	100	100	100	35.68	50.00	344.41	65.2	Member X
5	100	PSP - ROHN 6 EHS	-190.99	1.2D + 1.6W	Normal Wind	6.51	100	100	100	35.12	50.00	276.03	69.2	Member X
6	120	PX - 5" DIA PIPE	-157.94	1.2D + 1.6W	Normal Wind	6.51	100	100	100	42.47	50.00	240.98	65.5	Member X
7	140	PX - 4" DIA PIPE	-123.68	1.2D + 1.6W	Normal Wind	4.88	100	100	100	39.60	50.00	176.96	69.9	Member X
8	160	PX - 3" DIA PIPE	-83.61	1.2D + 1.6W	Normal Wind	3.91	100	100	100	41.12	50.00	120.09	69.6	Member X
9	180	PST - 2-1/2" DIA PIPE	-37.76	1.2D + 1.6W	Normal Wind	3.90	100	100	100	49.42	50.00	64.14	58.9	Member X

Splices

Sect	Top Elev	Load Case	Top Splice				Load Case	Bottom Splice				Controls
			Force (kips)	Cap (kips)	Use %	Bolt Type		Num Bolts	Force (kips)	Cap (kips)	Use %	
1	20	1.2D + 1.6W Normal Wind	294.59	0.00	0.0		1.2D + 1.6W Normal Wind	322.70	0.00			
2	40	1.2D + 1.6W Normal Wind	261.55	0.00	0.0		1.2D + 1.6W Normal Wind	294.59	0.00		1 A325	8
3	60	1.2D + 1.6W Normal Wind	231.04	0.00	0.0		1.2D + 1.6W Normal Wind	261.55	0.00		1 A325	8
4	80	1.2D + 1.6W Normal Wind	197.33	0.00	0.0		1.2D + 1.6W Normal Wind	231.04	0.00		1 A325	8
5	100	1.2D + 1.6W Normal Wind	164.58	0.00	0.0		1.2D + 1.6W Normal Wind	197.33	0.00		1 A325	6
6	120	1.2D + 1.6W Normal Wind	129.12	0.00	0.0		1.2D + 1.6W Normal Wind	164.58	0.00		1 A325	6
7	140	1.2D + 1.6W Normal Wind	88.68	0.00	0.0		1.2D + 1.6W Normal Wind	129.12	0.00		1 A325	4
8	160	1.2D + 1.6W Normal Wind	43.52	0.00	0.0		1.2D + 1.6W Normal Wind	88.68	0.00		7/8 A325	4
9	180	1.2D + 1.0Di + 1.0Wi 60° Wind	0.49	0.00	0.0		1.2D + 1.6W Normal Wind	43.52	0.00		3/4 A325	4

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
			(kips)				X	Y	Z								
1	20									0.00	0	0					
2	40									0.00	0	0					
3	60									0.00	0	0					
4	80									0.00	0	0					
5	100									0.00	0	0					
6	120									0.00	0	0					
7	140									0.00	0	0					
8	160	SAE - 2X2X0.25	-0.61	0.9D + 1.6W	Normal Wind	4.58	100	100	100	140.56	36.00	10.75	1	1	12.43	13.05	6 Member Z
9	180	SAE - 2X2X0.25	-0.63	0.9D + 1.6W	60° Wind	4.58	100	100	100	140.56	36.00	10.75	1	1	12.43	13.05	6 Member Z

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
			(kips)				X	Y	Z								
1	20	SAE - 4X4X0.25	-8.93	0.9D + 1.6W	90° Wind	21.87	49	49	49	161.75	50.00	16.75	1	1	17.89	16.0	56 Bolt Bear
2	40	SAE - 4X4X0.25	-9.13	0.9D + 1.6W	90° Wind	20.11	49	49	49	148.76	50.00	19.80	1	1	17.89	16.0	57 Bolt Bear
3	60	SAE - 3.5X3.5X0.25	-7.72	0.9D + 1.6W	90° Wind	19.20	49	49	49	162.65	50.00	14.43	1	1	17.89	16.0	53 Member Z
4	80	SAE - 3X3X0.25	-7.12	1.2D + 1.6W	90° Wind	15.95	49	49	49	158.46	50.00	12.96	1	1	17.89	16.0	55 Member Z
5	100	SAE - 2.5X2.5X0.25	-6.25	1.2D + 1.6W	90° Wind	14.12	49	49	49	169.14	36.00	9.40	1	1	12.43	13.0	67 Member Z
6	120	SAE - 2.5X2.5X0.25	-6.24	1.2D + 1.6W	90° Wind	11.14	50	50	50	136.16	36.00	14.50	1	1	12.43	13.0	50 Bolt Shear
7	140	SAE - 2X2X0.25	-5.19	1.2D + 1.6W	90° Wind	9.72	50	50	50	149.11	36.00	9.55	1	1	12.43	13.0	54 Member Z
8	160	SAE - 2X2X0.25	-4.89	1.2D + 1.6W	90° Wind	7.50	50	50	50	116.31	36.00	14.94	1	1	12.43	13.0	39 Bolt Shear
9	180	SAE - 2X2X0.25	-4.28	1.2D + 1.6W	90° Wind	6.02	50	50	50	99.23	36.00	18.14	1	1	12.43	13.0	34 Bolt Shear

Force/Stress Compression Summary

Structure: CT10008-A-SBA	Code: EIA/TIA-222-G	11/22/2021
Site Name: Ellington	Exposure: B	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 9.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
						X	Y	Z	KL/R							

Force/Stress Tension Summary

Structure: CT10008-A-SBA	Code: EIA/TIA-222-G	11/22/2021
Site Name: Ellington	Exposure: B	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 9.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	20	PX - 8" DIA PIPE	281.04	0.9D + 1.6W 60° Wind	50	574.20	48.9	Member
2	40	PX - 8" DIA PIPE	256.97	0.9D + 1.6W 60° Wind	50	574.20	44.8	Member
3	60	PSP - ROHN 8 EHS	229.47	0.9D + 1.6W 60° Wind	50	437.40	52.5	Member
4	80	PX - 6" DIA PIPE	203.34	0.9D + 1.6W 60° Wind	50	378.00	53.8	Member
5	100	PSP - ROHN 6 EHS	174.26	0.9D + 1.6W 60° Wind	50	302.09	57.7	Member
6	120	PX - 5" DIA PIPE	145.01	0.9D + 1.6W 60° Wind	50	274.95	52.7	Member
7	140	PX - 4" DIA PIPE	112.71	0.9D + 1.6W 60° Wind	50	198.45	56.8	Member
8	160	PX - 3" DIA PIPE	74.92	0.9D + 1.6W 60° Wind	50	135.90	55.1	Member
9	180	PST - 2-1/2" DIA PIPE	34.49	0.9D + 1.6W 60° Wind	50	76.68	45.0	Member

Splices

Sect	Top Elev	Top Splice					Bottom Splice						
		Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts	Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts
1	20	0.9D + 1.6W 60° Wind	256.69	0.00	0.0		0.9D + 1.6W 60° Wind	281.0	0.00				
2	40	0.9D + 1.6W 60° Wind	229.01	0.00	0.0		0.9D + 1.6W 60° Wind	256.6	424.08	60.5	1 A325	8	
3	60	0.9D + 1.6W 60° Wind	203.07	0.00	0.0		0.9D + 1.6W 60° Wind	229.0	424.08	54.0	1 A325	8	
4	80	0.9D + 1.6W 60° Wind	174.00	0.00	0.0		0.9D + 1.6W 60° Wind	203.0	424.08	47.9	1 A325	8	
5	100	0.9D + 1.6W 60° Wind	144.82	0.00	0.0		0.9D + 1.6W 60° Wind	174.0	318.06	54.7	1 A325	6	
6	120	0.9D + 1.6W 60° Wind	112.54	0.00	0.0		0.9D + 1.6W 60° Wind	144.8	318.06	45.5	1 A325	6	
7	140	0.9D + 1.6W 60° Wind	74.79	0.00	0.0		0.9D + 1.6W 60° Wind	112.5	212.04	53.1	1 A325	4	
8	160	0.9D + 1.6W 60° Wind	34.58	0.00	0.0		0.9D + 1.6W 60° Wind	74.79	166.24	45.0	7/8 A325	4	
9	180		0.00	0.00	0.0		0.9D + 1.6W 60° Wind	34.58	120.40	28.7	3/4 A325	4	

HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	-			50	0.00	0	0					
2	40	-			50	0.00	0	0					
3	60	-			50	0.00	0	0					
4	80	-			50	0.00	0	0					
5	100	-			36	0.00	0	0					
6	120	-			36	0.00	0	0					
7	140	-			36	0.00	0	0					
8	160	SAE - 2X2X0.25	0.39	1.2D + 1.6W 60° Wind	36	30.46	1	1	12.43	13.05	9.99	3.9	Blck Shear
9	180	SAE - 2X2X0.25	1.03	1.2D + 1.6W Normal Wi	36	30.46	1	1	12.43	13.05	9.99	10.3	Blck Shear

DIAGONAL MEMBERS

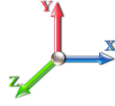
Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	SAE - 4X4X0.25	8.73	0.9D + 1.6W 90° Wind	50	62.93	1	1	17.89	16.09	18.89	54.2	Bolt Bear
2	40	SAE - 4X4X0.25	8.98	0.9D + 1.6W 90° Wind	50	62.93	1	1	17.89	16.09	18.89	55.8	Bolt Bear
3	60	SAE - 3.5X3.5X0.25	7.58	0.9D + 1.6W 90° Wind	50	53.79	1	1	17.89	16.09	18.89	47.1	Bolt Bear
4	80	SAE - 3X3X0.25	7.14	1.2D + 1.6W 90° Wind	50	44.65	1	1	17.89	16.09	15.84	45.1	Blck Shear
5	100	SAE - 2.5X2.5X0.25	6.25	1.2D + 1.6W 90° Wind	36	32.71	1	1	12.43	13.05	12.71	50.3	Bolt Shear
6	120	SAE - 2.5X2.5X0.25	6.03	1.2D + 1.6W 90° Wind	36	32.71	1	1	12.43	13.05	12.71	48.5	Bolt Shear
7	140	SAE - 2X2X0.25	5.63	1.2D + 1.6W 90° Wind	36	24.55	1	1	12.43	13.05	9.99	56.3	Blck Shear
8	160	SAE - 2X2X0.25	4.85	1.2D + 1.6W 90° Wind	36	24.55	1	1	12.43	13.05	9.99	48.6	Blck Shear
9	180	SAE - 2X2X0.25	4.13	1.2D + 1.6W 90° Wind	36	24.55	1	1	12.43	13.05	9.99	41.3	Blck Shear

Support Forces Summary

Structure: CT10008-A-SBA
Site Name: Ellington
Height: 180.00 (ft)
Base Elev: 9.000 (ft)
Gh: 0.85

Topography: 1

Code: EIA/TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

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Load Case	Node	FX (kips)	FY (kips)	FZ (kips)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal Wind	1	0.00	321.81	-32.27	
	1a	11.06	-134.06	-9.87	
	1b	-11.06	-134.06	-9.87	
1.2D + 1.6W 60° Wind	1	-2.78	164.90	-16.08	
	1a	-15.30	164.23	5.63	
	1b	-25.03	-275.43	-14.44	
1.2D + 1.6W 90° Wind	1	-3.30	17.91	-1.12	
	1a	-24.42	273.87	12.23	
	1b	-22.61	-238.08	-11.11	
0.9D + 1.6W Normal Wind	1	0.00	316.89	-31.97	
	1a	11.31	-138.31	-10.02	
	1b	-11.31	-138.31	-10.02	
0.9D + 1.6W 60° Wind	1	-2.79	160.21	-15.78	
	1a	-15.05	159.54	5.47	
	1b	-25.27	-279.47	-14.58	
0.9D + 1.6W 90° Wind	1	-3.31	13.43	-0.83	
	1a	-24.17	269.03	12.08	
	1b	-22.86	-242.18	-11.25	
1.2D + 1.0Di + 1.0Wi Normal Wind	1	0.00	152.75	-10.38	
	1a	3.51	7.77	-3.13	
	1b	-3.51	7.77	-3.13	
1.2D + 1.0Di + 1.0Wi 60° Wind	1	-0.93	103.91	-5.32	
	1a	-5.07	103.75	1.85	
	1b	-8.19	-39.37	-4.73	
1.2D + 1.0Di + 1.0Wi 90° Wind	1	-1.09	56.09	-0.39	
	1a	-8.02	138.99	4.01	
	1b	-7.35	-26.80	-3.61	
1.0D + 1.0W Normal Wind	1	0.00	88.13	-8.55	
	1a	2.07	-21.69	-2.05	
	1b	-2.07	-21.69	-2.05	
1.0D + 1.0W 60° Wind	1	-0.70	50.41	-4.61	
	1a	-4.34	50.25	1.70	
	1b	-5.47	-55.91	-3.16	
1.0D + 1.0W 90° Wind	1	-0.82	14.92	-0.97	
	1a	-6.56	76.67	3.32	
	1b	-4.89	-46.84	-2.35	

Max Reactions

Leg	Overturning
Max Uplift: -279.47 (kips)	Moment: 5558.67 (ft-kips)
Max Down: 321.81 (kips)	Total Down: 53.70 (kips)
Max Shear: 32.27 (kips)	Total Shear: 52.01 (kips)

Analysis Summary

Structure: CT10008-A-SBA	Code: EIA/TIA-222-G	11/22/2021
Site Name: Ellington	Exposure: B	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 9.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 17



Max Reactions

	Leg	Overturning
Max Uplift:	-279.47 (kips)	Moment: 5558.67 (ft-kips)
Max Down:	321.81 (kips)	Total Down: 53.70 (kips)
Max Shear:	32.27 (kips)	Total Shear: 52.01 (kips)

Anchor Bolts

Bolt Size (in.): 1.00	Number Bolts: 10
Yield Strength (Ksi): 109.00	Tensile Strength (Ksi): 125.00
Detail Type: A	

Interaction Ratio: 0.52

Max Usages

Max Leg: 69.9% (1.2D + 1.6W Normal Wind - Sect 7)
 Max Diag: 66.5% (1.2D + 1.6W 90° Wind - Sect 5)
 Max Horiz: 10.3% (1.2D + 1.6W Normal Wind - Sect 9)

Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
0.9D + 1.6W 97 mph Wind at 60° From Face	20.25	0.0211	0.0086	0.1149
	79.75	0.2528	0.0375	0.4057
	148.05	1.0143	0.1552	0.9652
	155.85	1.1505	0.1895	1.0341
	175.85	1.5491	0.4024	1.2915
	179.75	1.6311	0.4355	1.0907
	180.00	1.6352	0.4355	1.0949
0.9D + 1.6W 97 mph Wind at 90° From Face	20.25	0.0209	-0.0060	0.1139
	79.75	0.2542	-0.0209	0.4041
	148.05	1.0187	-0.0425	0.9607
	155.85	1.1549	-0.0425	1.0325
	175.85	1.5532	-0.0463	1.3537
	179.75	1.6340	-0.0463	0.6282
	180.00	1.6366	-0.0463	0.6258
0.9D + 1.6W 97 mph Wind at Normal To Face	20.25	0.0220	0.0054	0.1196
	79.75	0.2612	0.0183	0.4194
	148.05	1.0460	-0.0365	0.9918
	155.85	1.1870	-0.0366	1.0646
	175.85	1.6035	-0.0336	1.1286
	179.75	1.6909	-0.0310	1.8928
	180.00	1.6990	-0.0308	1.9049

1.0D + 1.0W 60 mph Wind at 60° From Face	20.25	0.0051	0.0015	0.0282
	79.75	0.0610	0.0054	0.0978
	148.05	0.2439	0.0155	0.2306
	155.85	0.2766	0.0175	0.2463
	175.85	0.3724	0.0300	0.3099
	179.75	0.3919	0.0319	0.2570
	180.00	0.3929	0.0318	0.2578
1.0D + 1.0W 60 mph Wind at 90° From Face	20.25	0.0051	-0.0015	0.0278
	79.75	0.0614	-0.0050	0.0973
	148.05	0.2448	-0.0098	0.2307
	155.85	0.2775	-0.0097	0.2476
	175.85	0.3730	-0.0103	0.3244
	179.75	0.3923	-0.0103	0.1509
	180.00	0.3930	-0.0103	0.1504
1.0D + 1.0W 60 mph Wind at Normal To Face	20.25	0.0054	0.0013	0.0288
	79.75	0.0630	-0.0044	0.1008
	148.05	0.2513	0.0089	0.2378
	155.85	0.2851	0.0089	0.2552
	175.85	0.3848	0.0088	0.2706
	179.75	0.4056	0.0086	0.4511
	180.00	0.4075	0.0086	0.4539
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face	20.25	0.0081	0.0020	0.0370
	79.75	0.0833	0.0073	0.1319
	148.05	0.3255	0.0205	0.3045
	155.85	0.3683	0.0230	0.3229
	175.85	0.4939	0.0392	0.3992
	179.75	0.5199	0.0416	0.3476
	180.00	0.5213	0.0416	0.3476
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face	20.25	0.0079	-0.0020	0.0394
	79.75	0.0833	-0.0068	0.1306
	148.05	0.3257	-0.0135	0.3040
	155.85	0.3684	-0.0135	0.3250
	175.85	0.4936	-0.0148	0.4144
	179.75	0.5193	-0.0148	0.2521
	180.00	0.5204	-0.0148	0.2482
1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face	20.25	0.0074	0.0017	0.0408
	79.75	0.0834	0.0059	0.1330
	148.05	0.3288	-0.0116	0.3082
	155.85	0.3723	0.0117	0.3304
	175.85	0.5009	0.0117	0.3597
	179.75	0.5279	0.0114	0.5318
	180.00	0.5302	0.0114	0.5375
1.2D + 1.6W 97 mph Wind at 60° From Face	20.25	0.0210	0.0086	0.1150
	79.75	0.2531	0.0376	0.4064
	148.05	1.0167	0.1557	0.9682
	155.85	1.1533	0.1901	1.0373
	175.85	1.5533	0.4038	1.2957
	179.75	1.6356	0.4369	1.0939
	180.00	1.6397	0.4369	1.0980
1.2D + 1.6W 97 mph Wind at 90° From Face	20.25	0.0210	-0.0061	0.1140
	79.75	0.2546	-0.0210	0.4049
	148.05	1.0210	-0.0427	0.9637
	155.85	1.1577	-0.0427	1.0359
	175.85	1.5573	-0.0467	1.3580
	179.75	1.6384	-0.0467	0.6324
	180.00	1.6411	-0.0467	0.6300
1.2D + 1.6W 97 mph Wind at Normal To Face	20.25	0.0220	0.0054	0.1196
	79.75	0.2616	0.0183	0.4202
	148.05	1.0485	0.0365	0.9949
	155.85	1.1899	0.0366	1.0681
	175.85	1.6078	0.0335	1.1331
	179.75	1.6955	0.0308	1.8966
	180.00	1.7036	0.0306	1.9087



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

Antenna Mount Analysis Report and PMI Requirements

Mount Analysis

SMART Tool Project #: 10045195
Maser Consulting Connecticut Project #: 21777298A

September 3, 2021

Site Information

Site ID: 467759-VZW / ELLINGTON CT
Site Name: ELLINGTON CT
Carrier Name: Verizon Wireless
Address: 101 Burbank Rd
Ellington, Connecticut 06029
Tolland County
Latitude: 41.936231°
Longitude: -72.385303°

Structure Information

Tower Type: Self Support
Mount Type: 14.00-Ft Sector Frame

FUZE ID # 16272393

Analysis Results

Sector Frame: 70.1% Pass

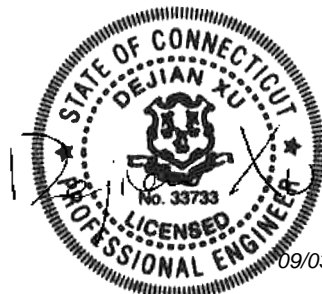
***Contractor PMI Requirements:

Included at the end of this MA report

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

**Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements may also be Noted on A & E drawings**

Report Prepared By: Andy Hanes



09/03/2021

Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 674889, dated August 26, 2021</i>
<i>Mount Mapping Report</i>	<i>Roaming Network Inc., Site ID: SBAI:CT10008, VZW:467759, dated March 31, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 117 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.971
Seismic Parameters:	S_s : 0.177 S_1 : 0.055
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 mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
176.50	177.00	6	Commscope	NHH-65B-R2B	Added
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Amphenol Antel	BXA-70080-4BF-EDIN	Retained

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

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

Standard Conditions:

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

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

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

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

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - 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

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	21.0 %	Pass
Standoff Plate	70.1 %	Pass
Face Horizontal	50.4 %	Pass
Standoff Horizontal	38.3 %	Pass
Bracing Plates	11.7 %	Pass
Standoff Diagonal	31.8 %	Pass
Standoff Vertical	13.8 %	Pass
Mount Pipe	40.3 %	Pass
Tie Back	7.5 %	Pass

Structure Rating – (Controlling Utilization of all Components)	70.1%
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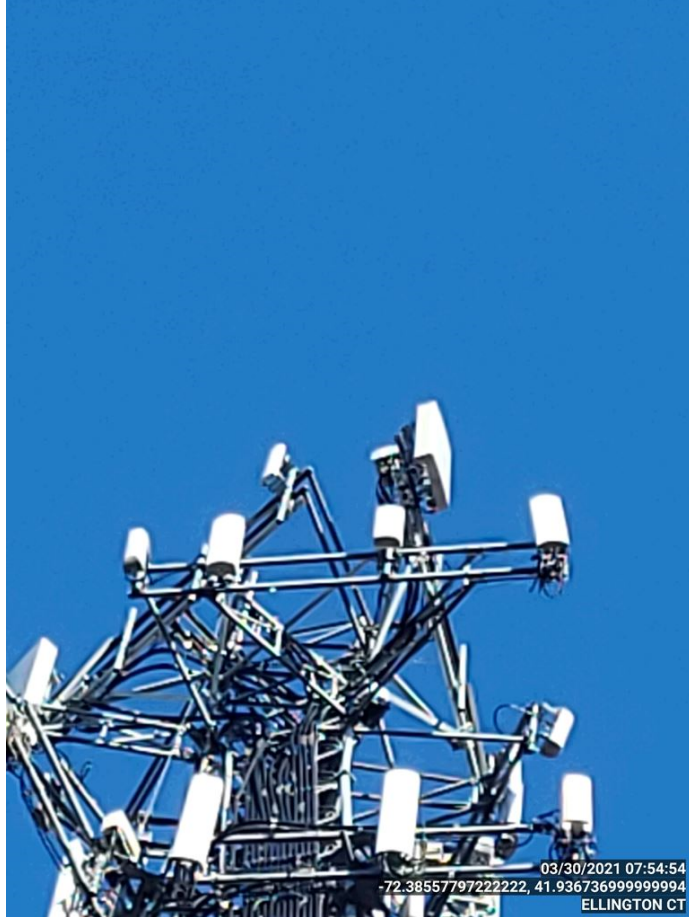
Recommendation:

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

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

Attachments:

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

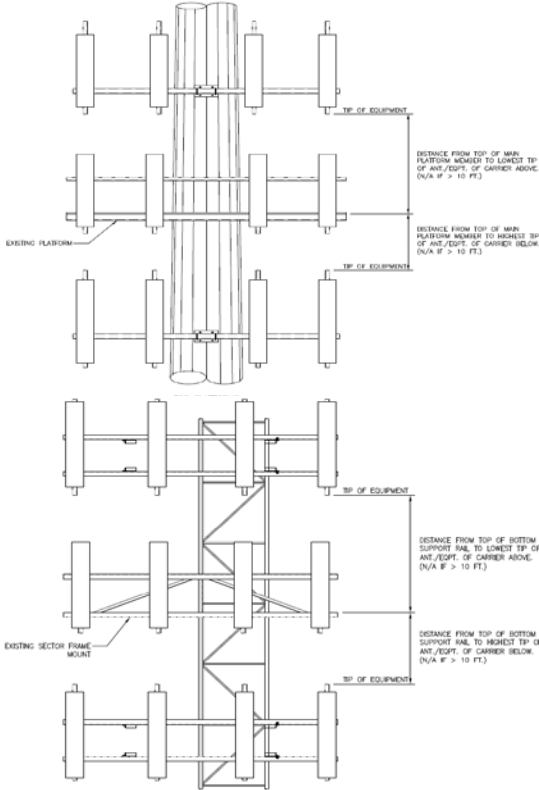


03/30/2021 07:54:54
-72.3855779722222, 41.936736999999994
ELLINGTON CT



03/30/2021 09:19:43
-72.3855779722222, 41.936736999999994
ELLINGTON CT

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B								
Sector A:	0,00	Deg	Leg A:	326,00	Deg	Ant _{1a}	HBXX-6517DS-A2M	12,00	6,53	75,03		176,2	30,00	8,00	112,00	174
Sector B:	120,00	Deg	Leg B:		Deg	Ant _{1b}	B4 RRH2x60-4R	10,63	5,75	36,61		178,7				174
Sector C:	240,00	Deg	Leg C:		Deg	Ant _{1c}										
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	BXA-70063-4CF-EDIN	11,20	5,00	47,40			26,00	7,00	112,00	174
Climbing Facility Information						Ant _{2b}										
Location:		Deg	On Leg C		Deg	Ant _{2c}										
Climbing Facility	Corrosion Type:		Good condition.			Ant _{3a}	HBXX-6517DS-A2M	12,00	6,53	75,03		176,2	30,00	7,00	112,00	175
	Access:		Climbing path was obstructed.			Ant _{3b}										
	Condition:		Good condition.			Ant _{3c}										
						Ant _{4a}	BXA-70080-4CF-EDIN	8,00	5,00	47,50		176,7	24,00	10,00	112,00	175
						Ant _{4b}										
						Ant _{4c}										
						Ant _{5a}										
						Ant _{5b}										
						Ant _{5c}						#REF!				
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
						Sector C										
						Ant _{1a}	HBXX-6517DS-A2M	12,00	6,53	75,03		176,2	30,00	8,00	276,00	187
						Ant _{1b}	B4 RRH2x60-4R	10,63	5,75	36,61		178,7				187
						Ant _{1c}										
						Ant _{2a}	BXA-70063-4CF-EDIN	11,20	5,00	47,40		176,533	26,00	7,00	276,00	187
						Ant _{2b}										
						Ant _{2c}										
						Ant _{3a}	HBXX-6517DS-A2M	12,00	6,53	75,03		176,2	30,00	7,00	276,00	188
						Ant _{3b}										
						Ant _{3c}										
						Ant _{4a}	BXA-70080-4CF-EDIN	8,00	5,00	47,50		176,7	24,00	10,00	276,00	188
						Ant _{4b}										
						Ant _{4c}										
						Ant _{5a}										
						Ant _{5b}										
						Ant _{5c}										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
						Sector D										
						Ant _{1a}										
						Ant _{1b}										
						Ant _{1c}										
						Ant _{2a}										
						Ant _{2b}										
						Ant _{2c}										
						Ant _{3a}										
						Ant _{3b}										
						Ant _{3c}										
						Ant _{4a}										
						Ant _{4b}										
						Ant _{4c}										
						Ant _{5a}										
						Ant _{5b}										
						Ant _{5c}										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										



Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
---------	----------------------	---------

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

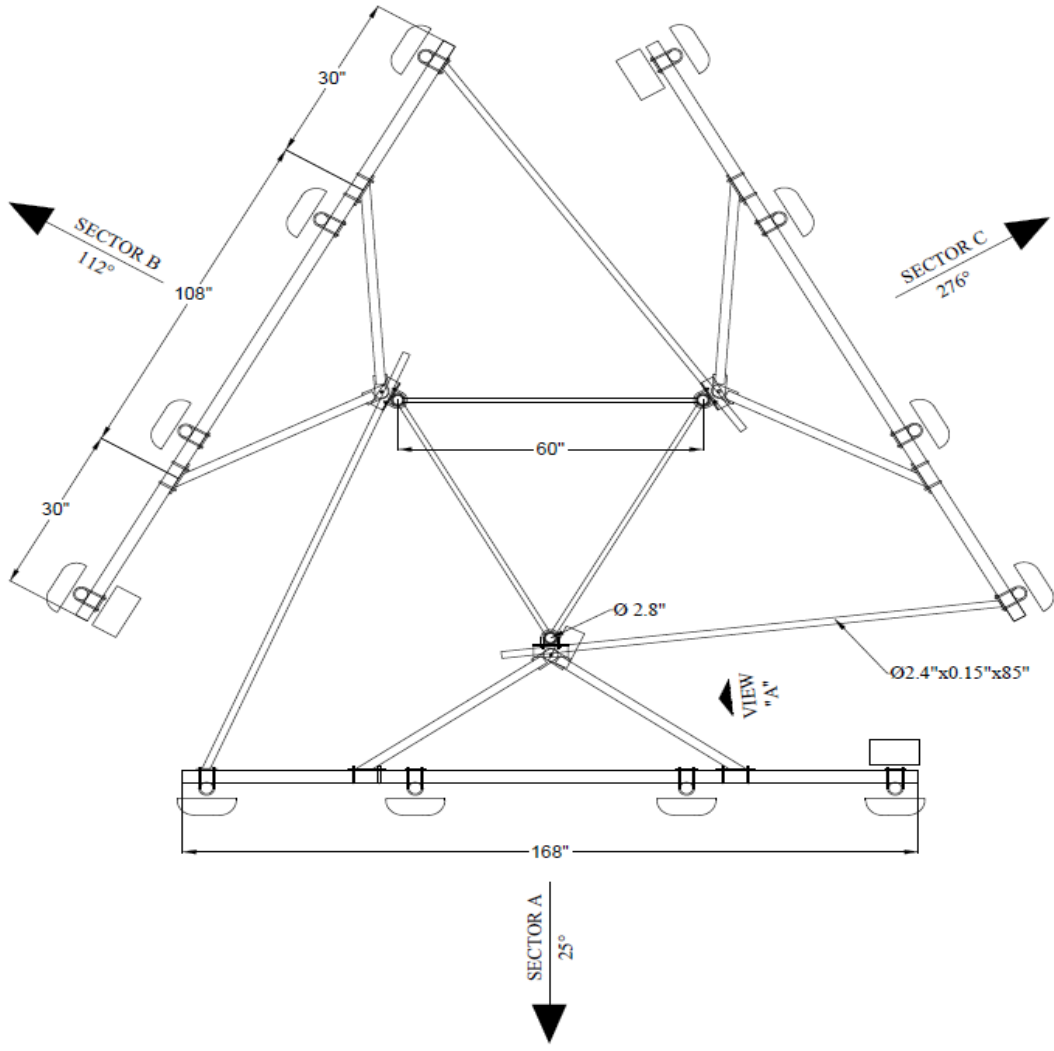
FCC #
N/A

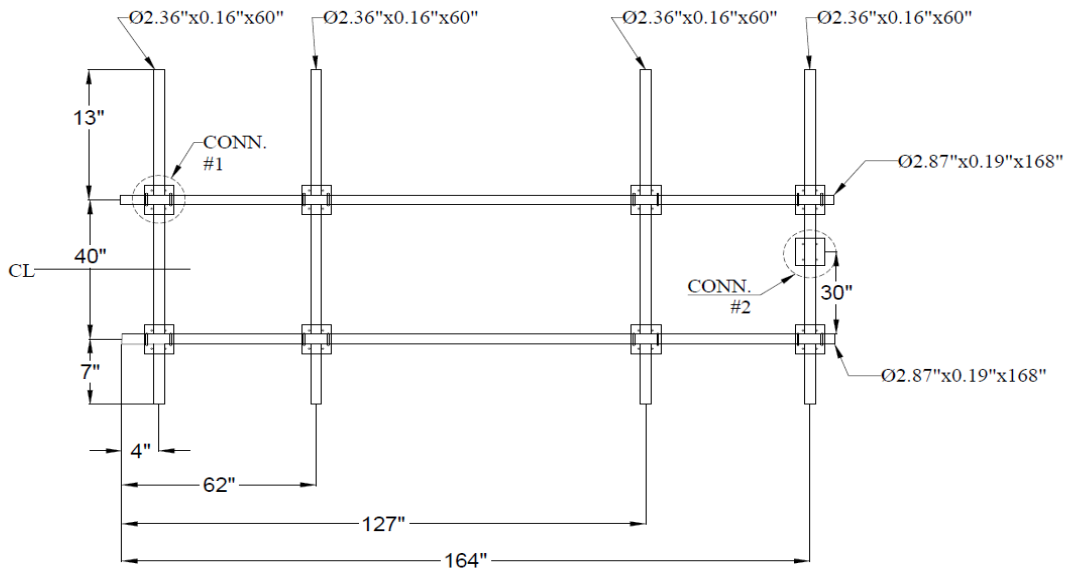
Tower Owner:	SBA	Mapping Date:	31-03-21
Site Name:	VZW:ELLINGTON CT	Tower Type:	Self Support
Site Number or ID:	SBAI:CT10008, VZW:467759	Tower Height (Ft.):	N/A
Mapping Contractor:	Roaming Networks Inc.	Mount Elevation (Ft.):	175.95

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

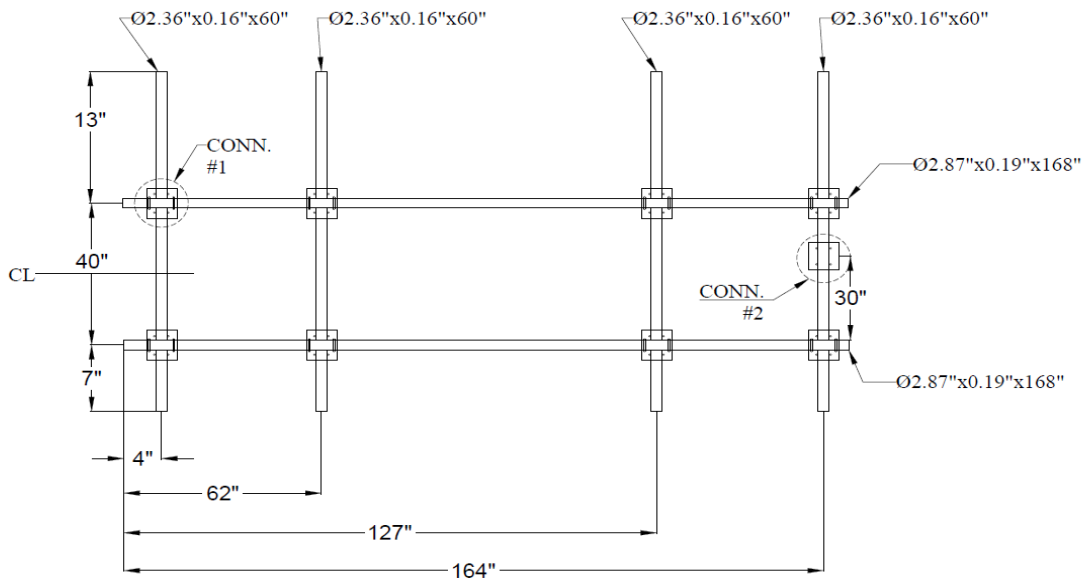
Please Insert Sketches of the Antenna Mount

Overall Mount Schematic

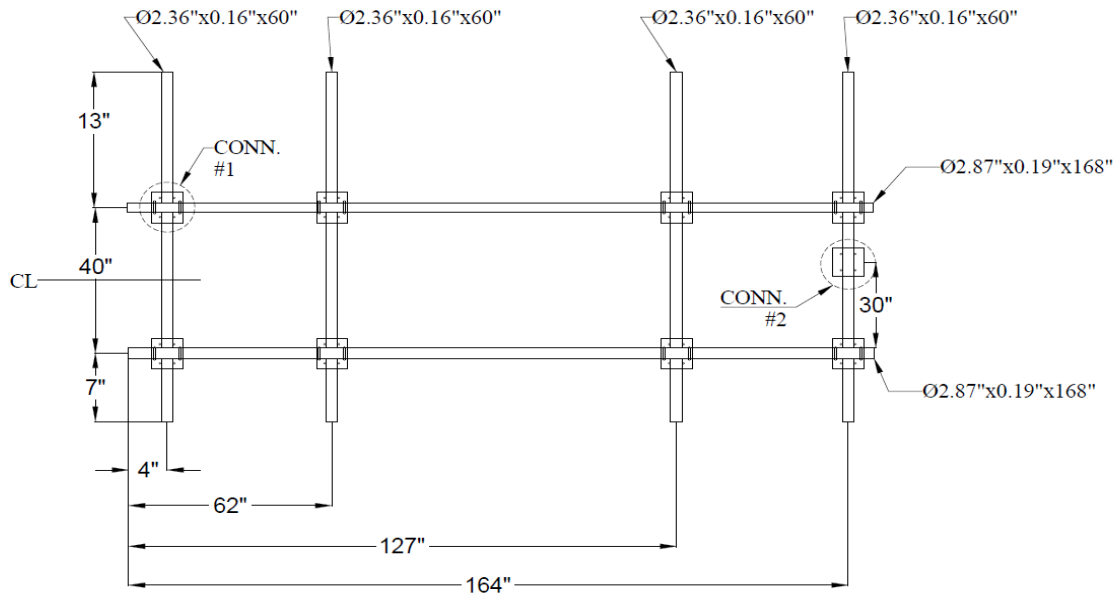




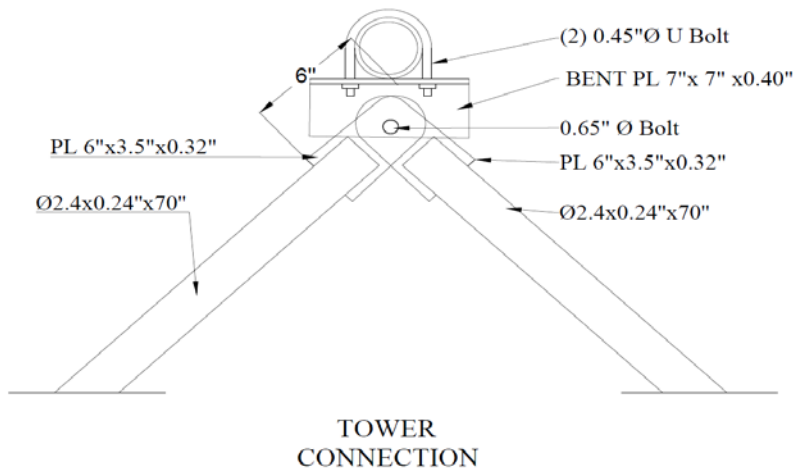
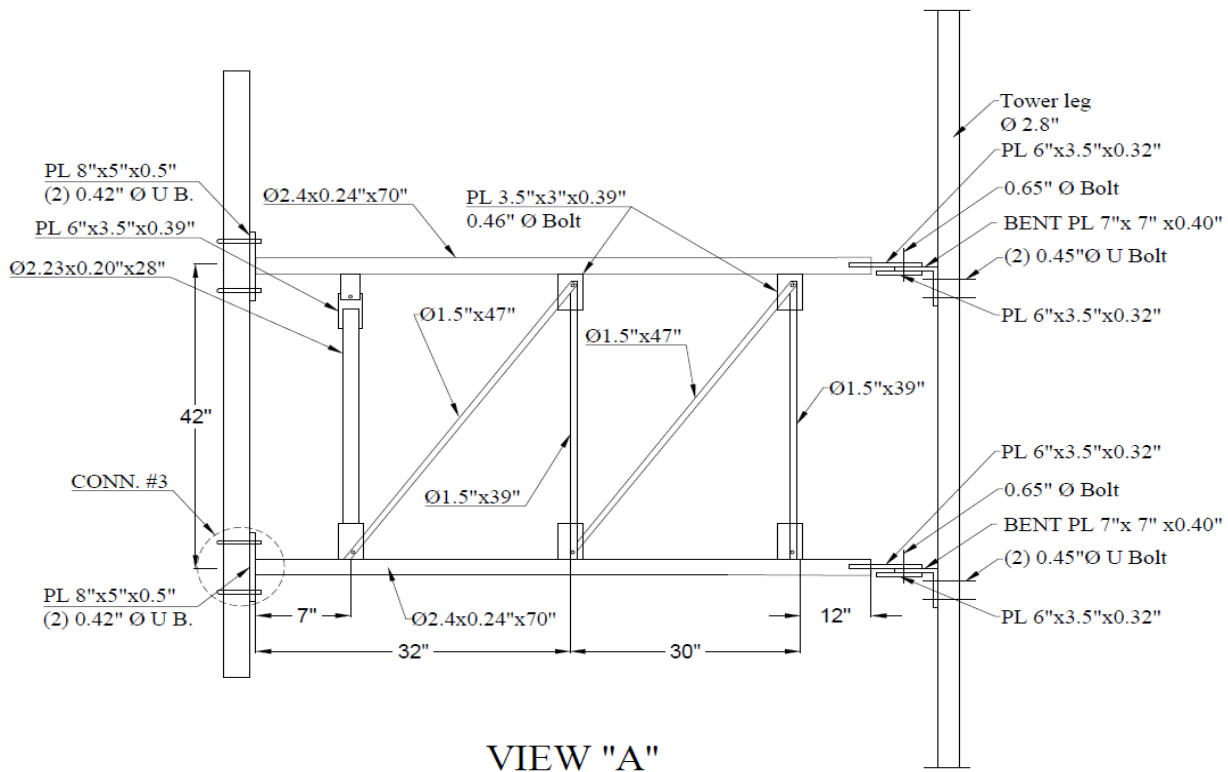
SECTOR A

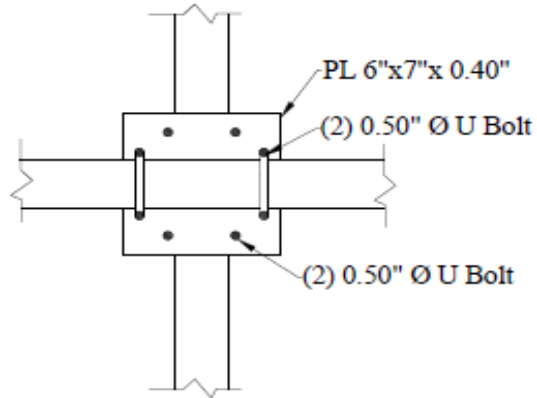


SECTOR B

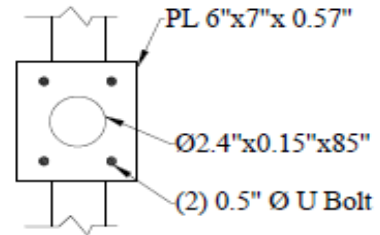


SECTOR C

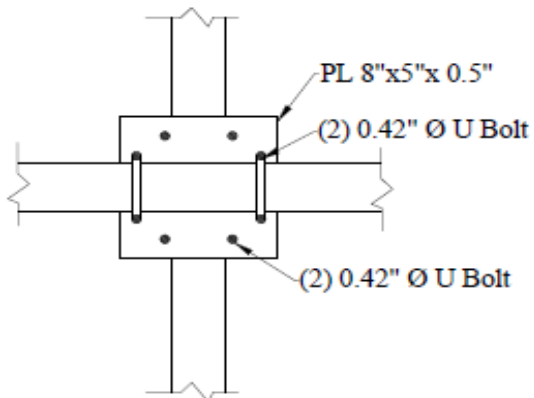




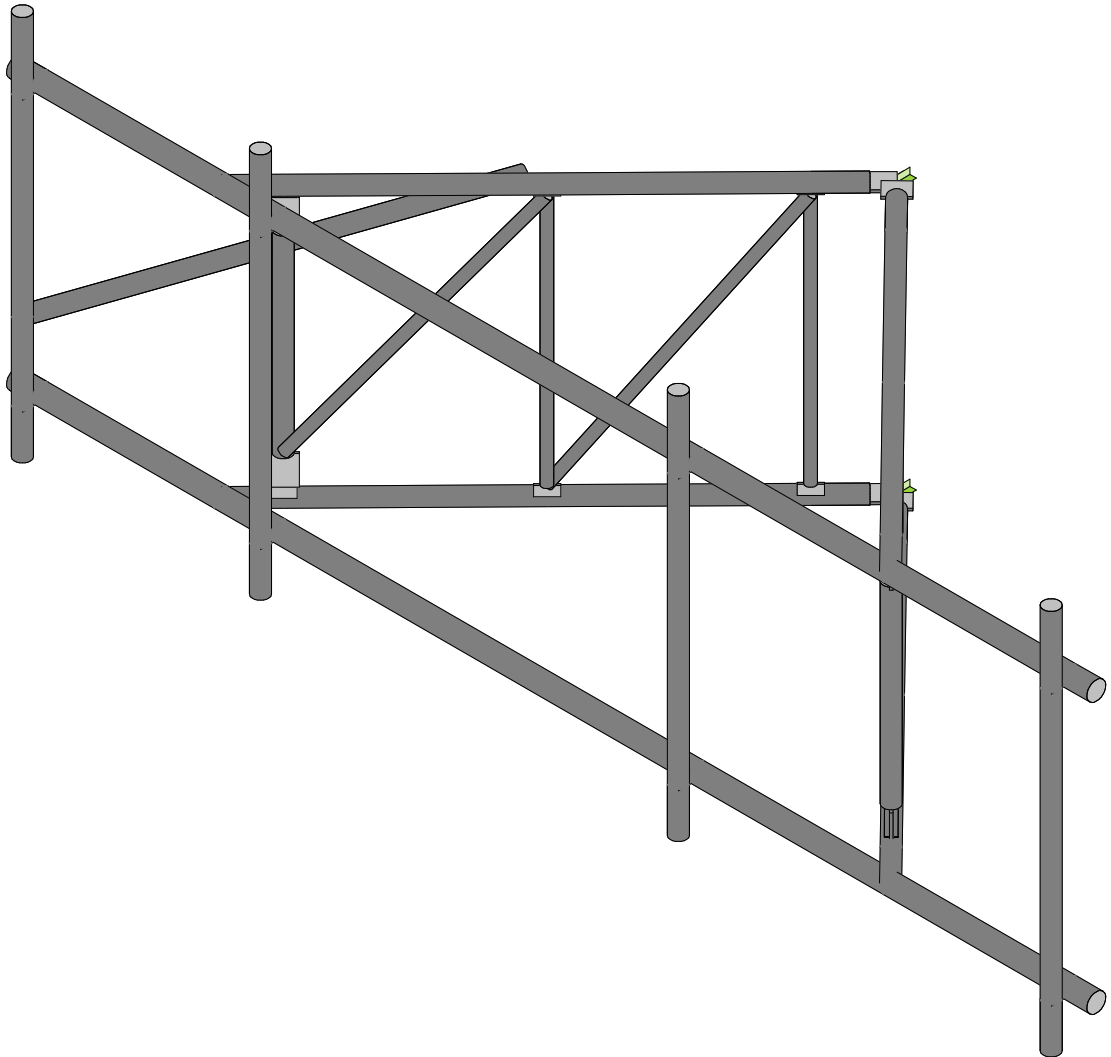
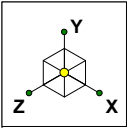
CONN.
#1



CONN.
#2

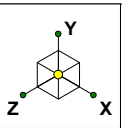


CONN.
#3

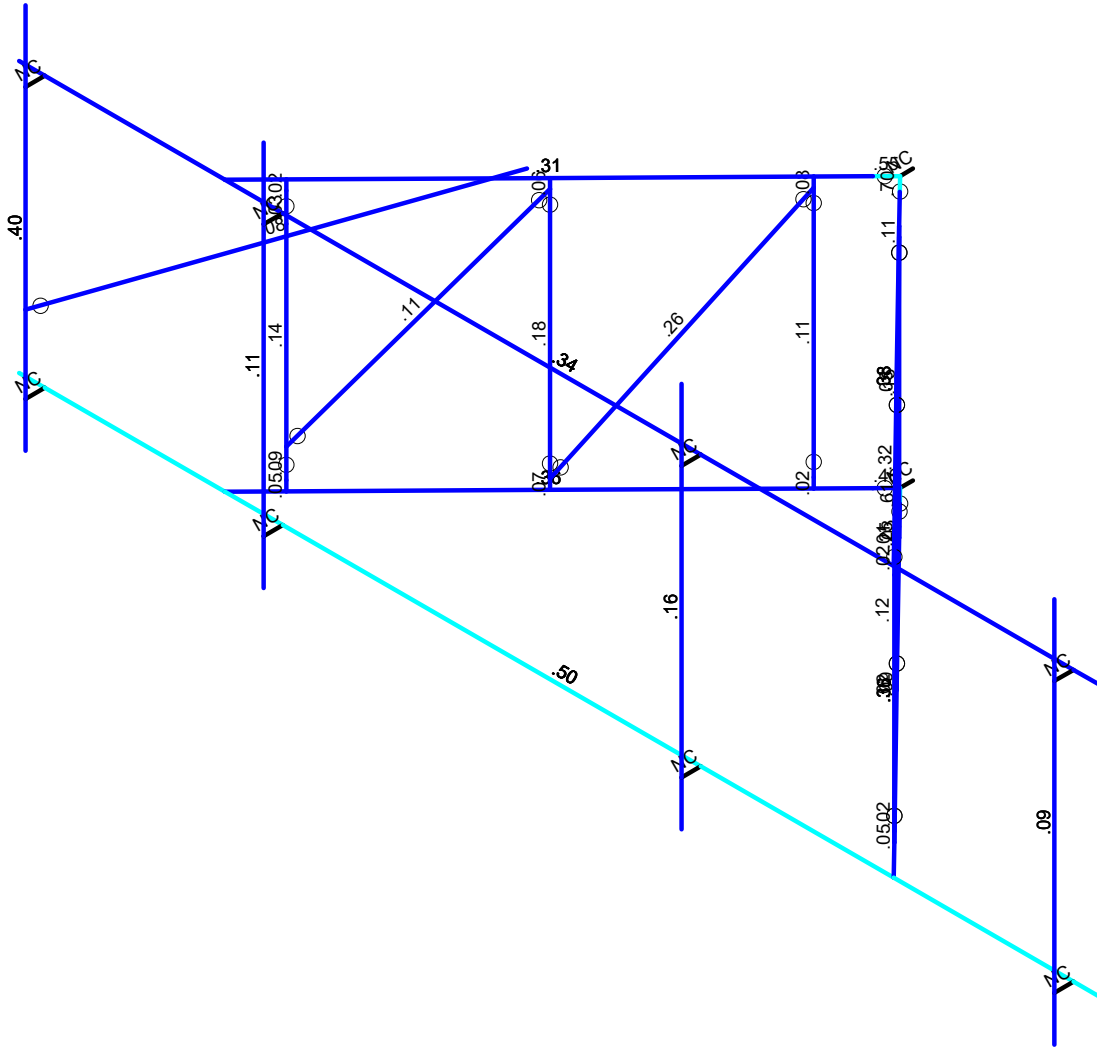
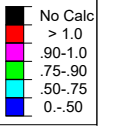


Envelope Only Solution

Maser Consulting	467759-VZW_MT_LOT_SectorA_H	SK - 1
AJH		Sept 3, 2021 at 11:51 AM
		467759-VZW_MT_LOT_A_H.r3d



Code Check
(Env)



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467759-VZW_MT_LOT_SectorA_H	SK - 2
AJH		Sept 3, 2021 at 11:51 AM
		467759-VZW_MT_LOT_A_H.r3d



Basic Load Cases

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

Load Combinations

	Description	Sol... P...	S...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
1	1.2D+1.0Wo (0 D...	Yes	Y	1	1.2	39	1.2	3	1	41	1		
2	1.2D+1.0Wo (30 ...	Yes	Y	1	1.2	39	1.2	4	1	42	1		
3	1.2D+1.0Wo (60 ...	Yes	Y	1	1.2	39	1.2	5	1	43	1		
4	1.2D+1.0Wo (90 ...	Yes	Y	1	1.2	39	1.2	6	1	44	1		
5	1.2D+1.0Wo (120...	Yes	Y	1	1.2	39	1.2	7	1	45	1		
6	1.2D+1.0Wo (150...	Yes	Y	1	1.2	39	1.2	8	1	46	1		
7	1.2D+1.0Wo (180...	Yes	Y	1	1.2	39	1.2	9	1	47	1		
8	1.2D+1.0Wo (210...	Yes	Y	1	1.2	39	1.2	10	1	48	1		
9	1.2D+1.0Wo (240...	Yes	Y	1	1.2	39	1.2	11	1	49	1		
10	1.2D+1.0Wo (270...	Yes	Y	1	1.2	39	1.2	12	1	50	1		
11	1.2D+1.0Wo (300...	Yes	Y	1	1.2	39	1.2	13	1	51	1		
12	1.2D+1.0Wo (330...	Yes	Y	1	1.2	39	1.2	14	1	52	1		
13	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1
14	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1
15	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1
16	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1
17	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1
18	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1
19	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1
20	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1
21	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1
22	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1
23	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1
24	1.2D + 1.0Di + 1...	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1
25	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1
26	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1
27	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1
28	1.2D + 1.5Lm1 + ...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1



Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-0.166667	0.083333	0.166667	0	
2	N4	-0.166667	0.083333	0	0	
3	N5	-0.166667	-3.416667	0.166667	0	
4	N10	-4.5	0.083333	4.583333	0	
5	N11	4.166667	0.083333	4.583333	0	
6	N11A	-7.166667	0.083333	4.583333	0	
7	N12	6.833333	0.083333	4.583333	0	
8	N14	-4.5	-3.416667	4.583333	0	
9	N15	4.166667	-3.416667	4.583333	0	
10	N16	-7.166667	-3.416667	4.583333	0	
11	N17	6.833333	-3.416667	4.583333	0	
12	N17A	-0.341752	0.083333	0.345119	0	
13	N18	0.008419	0.083333	0.345119	0	
14	N19	-0.341752	-3.416667	0.345119	0	
15	N20	0.008419	-3.416667	0.345119	0	
16	N21	0.38777	0.083333	0.731765	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N22	0.38777	-3.416667	0.731765	0	
18	N23	2.08026	0.083333	2.456803	0	
19	N24	2.08026	-3.416667	2.456803	0	
20	N25	3.77275	0.083333	4.181841	0	
21	N26	3.77275	-3.416667	4.181841	0	
22	N27	0.38777	-3.291667	0.731765	0	
23	N28	2.08026	-3.291667	2.456803	0	
24	N29	0.38777	-0.041667	0.731765	0	
25	N30	2.08026	-0.041667	2.456803	0	
26	N31	3.77275	-2.916667	4.181841	0	
27	N32	3.77275	-0.416667	4.181841	0	
28	N33	-0.721103	0.083333	0.731765	0	
29	N34	-0.721103	-3.416667	0.731765	0	
30	N35	-2.413593	0.083333	2.456803	0	
31	N36	-2.413593	-3.416667	2.456803	0	
32	N37	-4.106083	0.083333	4.181841	0	
33	N38	-4.106083	-3.416667	4.181841	0	
34	N39	-0.721103	-3.291667	0.731765	0	
35	N40	-2.413593	-3.291667	2.456803	0	
36	N41	-0.721103	-0.041667	0.731765	0	
37	N42	-2.413593	-0.041667	2.456803	0	
38	N43	-4.106083	-2.916667	4.181841	0	
39	N44	-4.106083	-0.416667	4.181841	0	
40	N65	-0.166667	-3.416667	0	0	
41	N41A	3.77275	-3.291667	4.181841	0	
42	N42A	-4.106083	-3.291667	4.181841	0	
43	N43A	3.77275	-0.041667	4.181841	0	
44	N44A	-4.106083	-0.041667	4.181841	0	
45	N45	6.5	0.083333	4.583333	0	
46	N46	6.5	-3.416667	4.583333	0	
47	N47	6.5	0.083333	4.833333	0	
48	N48	6.5	-3.416667	4.833333	0	
49	N49	6.5	1	4.833333	0	
50	N50	6.5	-4	4.833333	0	
51	N51	1.666667	0.083333	4.583333	0	
52	N52	1.666667	-3.416667	4.583333	0	
53	N53	1.666667	0.083333	4.833333	0	
54	N54	1.666667	-3.416667	4.833333	0	
55	N55	1.666667	1	4.833333	0	
56	N56	1.666667	-4	4.833333	0	
57	N57	-3.75	0.083333	4.583333	0	
58	N58	-3.75	-3.416667	4.583333	0	
59	N59	-3.75	0.083333	4.833333	0	
60	N60	-3.75	-3.416667	4.833333	0	
61	N61	-3.75	1	4.833333	0	
62	N62	-3.75	-4	4.833333	0	
63	N63	-6.833333	0.083333	4.583333	0	
64	N64	-6.833333	-3.416667	4.583333	0	
65	N65A	-6.833333	0.083333	4.833333	0	
66	N66	-6.833333	-3.416667	4.833333	0	
67	N67	-6.833333	1	4.833333	0	
68	N68	-6.833333	-4	4.833333	0	
69	N69	-6.833333	-2.416667	4.833333	0	
70	N70	-5.166667	-2.416667	0.	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	Standoff Horizo...	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
3	Standoff Vertical	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	1.5x.06	Column	Pipe	A53 Gr. B	Typical	.271	.07	.07	.141
5	Face Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
6	Tie Back	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
7	Standoff Plate	PL3/8x3.5	Column	RECT	A36 Gr.36	Typical	1.313	.015	1.34	.057
8	Bracing Plates	PL3/8x3	Column	RECT	A36 Gr.36	Typical	1.125	.013	.844	.049
9	Standoff Vertica...	1x.06	Column	Pipe	A53 Gr. B	Typical	.177	.02	.02	.039

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	M2	N1	N4			RIGID	None	None	RIGID	Typical
2	M5	N1	N17A		90	Standoff Plate	Column	RECT	A36 Gr.36	Typical
3	M6	N1	N18		90	Standoff Plate	Column	RECT	A36 Gr.36	Typical
4	M7	N11A	N12			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
5	M8	N5	N19		90	Standoff Plate	Column	RECT	A36 Gr.36	Typical
6	M9	N5	N20		90	Standoff Plate	Column	RECT	A36 Gr.36	Typical
7	M10	N16	N17			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
8	M11	N17A	N10			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
9	M12	N18	N11			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
10	M13	N19	N14			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
11	M14	N20	N15			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
12	M15	N21	N29	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
13	M16	N29	N28		90	Standoff Diago...	Column	Pipe	A53 Gr. B	Typical
14	M17	N23	N30	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
15	M18	N30	N41A		90	Standoff Diago...	Column	Pipe	A53 Gr. B	Typical
16	M19	N26	N41A	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
17	M20	N27	N22	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
18	M21	N28	N24	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
19	M22	N29	N27	N1		Standoff Diago...	Column	Pipe	A53 Gr. B	Typical
20	M23	N30	N28	N1		Standoff Diago...	Column	Pipe	A53 Gr. B	Typical
21	M24	N31	N32	N1		Standoff Vertical	Column	Pipe	A53 Gr. B	Typical
22	M25	N32	N43A	N1		Standoff Plate	Column	RECT	A36 Gr.36	Typical
23	M26	N33	N41	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
24	M27	N41	N40		90	Standoff Diago...	Column	Pipe	A53 Gr. B	Typical
25	M28	N35	N42	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
26	M29	N42	N43		90	Standoff Diago...	Column	Pipe	A53 Gr. B	Typical
27	M30	N38	N42A	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
28	M31	N39	N34	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
29	M32	N40	N36	N1		Bracing Plates	Column	RECT	A36 Gr.36	Typical
30	M33	N41	N39	N1		Standoff Diago...	Column	Pipe	A53 Gr. B	Typical
31	M34	N42	N40	N1		Standoff Diago...	Column	Pipe	A53 Gr. B	Typical
32	M35	N43	N44	N1		Standoff Vertical	Column	Pipe	A53 Gr. B	Typical



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat..	Analysis ...	Inactive	Seismic..
34	M46A						Yes	** NA **			None
35	M35A	BenPIN					Yes	** NA **			None
36	M36A	BenPIN					Yes	** NA **			None
37	M37						Yes	** NA **			None
38	M38						Yes	** NA **			None
39	M39						Yes	** NA **			None
40	M40						Yes	** NA **			None
41	MP1A						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	MP2A						Yes	** NA **			None
45	M45						Yes	** NA **			None
46	M46						Yes	** NA **			None
47	MP3A						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	MP4A						Yes	** NA **			None
51	M51	OOOOXO					Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	.25
2	MP2A	My	-.011	.25
3	MP2A	Mz	.013	.25
4	MP2A	Y	-21.85	4.75
5	MP2A	My	-.011	4.75
6	MP2A	Mz	.013	4.75
7	MP2A	Y	-21.85	.25
8	MP2A	My	-.011	.25
9	MP2A	Mz	-.013	.25
10	MP2A	Y	-21.85	4.75
11	MP2A	My	-.011	4.75
12	MP2A	Mz	-.013	4.75
13	MP3A	Y	-43.55	1.5
14	MP3A	My	-.022	1.5
15	MP3A	Mz	0	1.5
16	MP3A	Y	-43.55	3
17	MP3A	My	-.022	3
18	MP3A	Mz	0	3
19	M12	Y	-32	2
20	M12	My	0	2
21	M12	Mz	0	2
22	MP1A	Y	-74.7	2.5
23	MP1A	My	.037	2.5
24	MP1A	Mz	0	2.5
25	MP2A	Y	-70.3	2.5
26	MP2A	My	.035	2.5
27	MP2A	Mz	0	2.5
28	MP4A	Y	-6	.75
29	MP4A	My	-.003	.75
30	MP4A	Mz	0	.75
31	MP4A	Y	-6	3.75
32	MP4A	My	-.003	3.75
33	MP4A	Mz	0	3.75



Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-98.452	.25
2	MP2A	My	-.049	.25
3	MP2A	Mz	.057	.25
4	MP2A	Y	-98.452	4.75
5	MP2A	My	-.049	4.75
6	MP2A	Mz	.057	4.75
7	MP2A	Y	-98.452	.25
8	MP2A	My	-.049	.25
9	MP2A	Mz	-.057	.25
10	MP2A	Y	-98.452	4.75
11	MP2A	My	-.049	4.75
12	MP2A	Mz	-.057	4.75
13	MP3A	Y	-58.134	1.5
14	MP3A	My	-.029	1.5
15	MP3A	Mz	0	1.5
16	MP3A	Y	-58.134	3
17	MP3A	My	-.029	3
18	MP3A	Mz	0	3
19	M12	Y	-142.13	2
20	M12	My	0	2
21	M12	Mz	0	2
22	MP1A	Y	-73.931	2.5
23	MP1A	My	.037	2.5
24	MP1A	Mz	0	2.5
25	MP2A	Y	-70.539	2.5
26	MP2A	My	.035	2.5
27	MP2A	Mz	0	2.5
28	MP4A	Y	-49.782	.75
29	MP4A	My	-.025	.75
30	MP4A	Mz	0	.75
31	MP4A	Y	-49.782	3.75
32	MP4A	My	-.025	3.75
33	MP4A	Mz	0	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.25
2	MP2A	Z	-167.668	.25
3	MP2A	Mx	-.098	.25
4	MP2A	X	0	4.75
5	MP2A	Z	-167.668	4.75
6	MP2A	Mx	-.098	4.75
7	MP2A	X	0	.25
8	MP2A	Z	-167.668	.25
9	MP2A	Mx	.098	.25
10	MP2A	X	0	4.75
11	MP2A	Z	-167.668	4.75
12	MP2A	Mx	.098	4.75
13	MP3A	X	0	1.5
14	MP3A	Z	-97.53	1.5
15	MP3A	Mx	0	1.5
16	MP3A	X	0	3
17	MP3A	Z	-97.53	3
18	MP3A	Mx	0	3
19	M12	X	0	2
20	M12	Z	-158.511	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	M12	Mx	0	2
22	MP1A	X	0	2.5
23	MP1A	Z	-77.609	2.5
24	MP1A	Mx	0	2.5
25	MP2A	X	0	2.5
26	MP2A	Z	-77.609	2.5
27	MP2A	Mx	0	2.5
28	MP4A	X	0	.75
29	MP4A	Z	-73.666	.75
30	MP4A	Mx	0	.75
31	MP4A	X	0	3.75
32	MP4A	Z	-73.666	3.75
33	MP4A	Mx	0	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	76.731	.25
2	MP2A	Z	-132.902	.25
3	MP2A	Mx	-.116	.25
4	MP2A	X	76.731	4.75
5	MP2A	Z	-132.902	4.75
6	MP2A	Mx	-.116	4.75
7	MP2A	X	76.731	.25
8	MP2A	Z	-132.902	.25
9	MP2A	Mx	.039	.25
10	MP2A	X	76.731	4.75
11	MP2A	Z	-132.902	4.75
12	MP2A	Mx	.039	4.75
13	MP3A	X	41.346	1.5
14	MP3A	Z	-71.614	1.5
15	MP3A	Mx	-.021	1.5
16	MP3A	X	41.346	3
17	MP3A	Z	-71.614	3
18	MP3A	Mx	-.021	3
19	M12	X	69.269	2
20	M12	Z	-119.978	2
21	M12	Mx	0	2
22	MP1A	X	35.588	2.5
23	MP1A	Z	-61.64	2.5
24	MP1A	Mx	.018	2.5
25	MP2A	X	35.004	2.5
26	MP2A	Z	-60.629	2.5
27	MP2A	Mx	.018	2.5
28	MP4A	X	34.552	.75
29	MP4A	Z	-59.846	.75
30	MP4A	Mx	-.017	.75
31	MP4A	X	34.552	3.75
32	MP4A	Z	-59.846	3.75
33	MP4A	Mx	-.017	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	108.297	.25
2	MP2A	Z	-62.525	.25
3	MP2A	Mx	-.091	.25
4	MP2A	X	108.297	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP2A	Z	-62.525	4.75
6	MP2A	Mx	-.091	4.75
7	MP2A	X	108.297	.25
8	MP2A	Z	-62.525	.25
9	MP2A	Mx	-.018	.25
10	MP2A	X	108.297	4.75
11	MP2A	Z	-62.525	4.75
12	MP2A	Mx	-.018	4.75
13	MP3A	X	45.916	1.5
14	MP3A	Z	-26.51	1.5
15	MP3A	Mx	-.023	1.5
16	MP3A	X	45.916	3
17	MP3A	Z	-26.51	3
18	MP3A	Mx	-.023	3
19	M12	X	111.33	2
20	M12	Z	-64.276	2
21	M12	Mx	0	2
22	MP1A	X	50.498	2.5
23	MP1A	Z	-29.155	2.5
24	MP1A	Mx	.025	2.5
25	MP2A	X	47.466	2.5
26	MP2A	Z	-27.404	2.5
27	MP2A	Mx	.024	2.5
28	MP4A	X	51.944	.75
29	MP4A	Z	-29.99	.75
30	MP4A	Mx	-.026	.75
31	MP4A	X	51.944	3.75
32	MP4A	Z	-29.99	3.75
33	MP4A	Mx	-.026	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	110.845	.25
2	MP2A	Z	0	.25
3	MP2A	Mx	-.055	.25
4	MP2A	X	110.845	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	-.055	4.75
7	MP2A	X	110.845	.25
8	MP2A	Z	0	.25
9	MP2A	Mx	-.055	.25
10	MP2A	X	110.845	4.75
11	MP2A	Z	0	4.75
12	MP2A	Mx	-.055	4.75
13	MP3A	X	38.183	1.5
14	MP3A	Z	0	1.5
15	MP3A	Mx	-.019	1.5
16	MP3A	X	38.183	3
17	MP3A	Z	0	3
18	MP3A	Mx	-.019	3
19	M12	X	138.539	2
20	M12	Z	0	2
21	M12	Mx	0	2
22	MP1A	X	51.877	2.5
23	MP1A	Z	0	2.5
24	MP1A	Mx	.026	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP2A	X	47.208	2.5
26	MP2A	Z	0	2.5
27	MP2A	Mx	.024	2.5
28	MP4A	X	55.418	.75
29	MP4A	Z	0	.75
30	MP4A	Mx	-.028	.75
31	MP4A	X	55.418	3.75
32	MP4A	Z	0	3.75
33	MP4A	Mx	-.028	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	108.297	.25
2	MP2A	Z	62.525	.25
3	MP2A	Mx	-.018	.25
4	MP2A	X	108.297	4.75
5	MP2A	Z	62.525	4.75
6	MP2A	Mx	-.018	4.75
7	MP2A	X	108.297	.25
8	MP2A	Z	62.525	.25
9	MP2A	Mx	-.091	.25
10	MP2A	X	108.297	4.75
11	MP2A	Z	62.525	4.75
12	MP2A	Mx	-.091	4.75
13	MP3A	X	45.916	1.5
14	MP3A	Z	26.51	1.5
15	MP3A	Mx	-.023	1.5
16	MP3A	X	45.916	3
17	MP3A	Z	26.51	3
18	MP3A	Mx	-.023	3
19	M12	X	137.275	2
20	M12	Z	79.256	2
21	M12	Mx	0	2
22	MP1A	X	50.498	2.5
23	MP1A	Z	29.155	2.5
24	MP1A	Mx	.025	2.5
25	MP2A	X	47.466	2.5
26	MP2A	Z	27.404	2.5
27	MP2A	Mx	.024	2.5
28	MP4A	X	51.944	.75
29	MP4A	Z	29.99	.75
30	MP4A	Mx	-.026	.75
31	MP4A	X	51.944	3.75
32	MP4A	Z	29.99	3.75
33	MP4A	Mx	-.026	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	76.731	.25
2	MP2A	Z	132.902	.25
3	MP2A	Mx	.039	.25
4	MP2A	X	76.731	4.75
5	MP2A	Z	132.902	4.75
6	MP2A	Mx	.039	4.75
7	MP2A	X	76.731	.25
8	MP2A	Z	132.902	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP2A	Mx	-.116	.25
10	MP2A	X	76.731	4.75
11	MP2A	Z	132.902	4.75
12	MP2A	Mx	-.116	4.75
13	MP3A	X	41.346	1.5
14	MP3A	Z	71.614	1.5
15	MP3A	Mx	-.021	1.5
16	MP3A	X	41.346	3
17	MP3A	Z	71.614	3
18	MP3A	Mx	-.021	3
19	M12	X	84.249	2
20	M12	Z	145.923	2
21	M12	Mx	0	2
22	MP1A	X	35.588	2.5
23	MP1A	Z	61.64	2.5
24	MP1A	Mx	.018	2.5
25	MP2A	X	35.004	2.5
26	MP2A	Z	60.629	2.5
27	MP2A	Mx	.018	2.5
28	MP4A	X	34.552	.75
29	MP4A	Z	59.846	.75
30	MP4A	Mx	-.017	.75
31	MP4A	X	34.552	3.75
32	MP4A	Z	59.846	3.75
33	MP4A	Mx	-.017	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.25
2	MP2A	Z	167.668	.25
3	MP2A	Mx	.098	.25
4	MP2A	X	0	4.75
5	MP2A	Z	167.668	4.75
6	MP2A	Mx	.098	4.75
7	MP2A	X	0	.25
8	MP2A	Z	167.668	.25
9	MP2A	Mx	-.098	.25
10	MP2A	X	0	4.75
11	MP2A	Z	167.668	4.75
12	MP2A	Mx	-.098	4.75
13	MP3A	X	0	1.5
14	MP3A	Z	97.53	1.5
15	MP3A	Mx	0	1.5
16	MP3A	X	0	3
17	MP3A	Z	97.53	3
18	MP3A	Mx	0	3
19	M12	X	0	2
20	M12	Z	158.511	2
21	M12	Mx	0	2
22	MP1A	X	0	2.5
23	MP1A	Z	77.609	2.5
24	MP1A	Mx	0	2.5
25	MP2A	X	0	2.5
26	MP2A	Z	77.609	2.5
27	MP2A	Mx	0	2.5
28	MP4A	X	0	.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	73.666	.75
30	MP4A	Mx	0	.75
31	MP4A	X	0	3.75
32	MP4A	Z	73.666	3.75
33	MP4A	Mx	0	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-76.731	.25
2	MP2A	Z	132.902	.25
3	MP2A	Mx	.116	.25
4	MP2A	X	-76.731	4.75
5	MP2A	Z	132.902	4.75
6	MP2A	Mx	.116	4.75
7	MP2A	X	-76.731	.25
8	MP2A	Z	132.902	.25
9	MP2A	Mx	-.039	.25
10	MP2A	X	-76.731	4.75
11	MP2A	Z	132.902	4.75
12	MP2A	Mx	-.039	4.75
13	MP3A	X	-41.346	1.5
14	MP3A	Z	71.614	1.5
15	MP3A	Mx	.021	1.5
16	MP3A	X	-41.346	3
17	MP3A	Z	71.614	3
18	MP3A	Mx	.021	3
19	M12	X	-69.269	2
20	M12	Z	119.978	2
21	M12	Mx	0	2
22	MP1A	X	-35.588	2.5
23	MP1A	Z	61.64	2.5
24	MP1A	Mx	-.018	2.5
25	MP2A	X	-35.004	2.5
26	MP2A	Z	60.629	2.5
27	MP2A	Mx	-.018	2.5
28	MP4A	X	-34.552	.75
29	MP4A	Z	59.846	.75
30	MP4A	Mx	.017	.75
31	MP4A	X	-34.552	3.75
32	MP4A	Z	59.846	3.75
33	MP4A	Mx	.017	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-108.297	.25
2	MP2A	Z	62.525	.25
3	MP2A	Mx	.091	.25
4	MP2A	X	-108.297	4.75
5	MP2A	Z	62.525	4.75
6	MP2A	Mx	.091	4.75
7	MP2A	X	-108.297	.25
8	MP2A	Z	62.525	.25
9	MP2A	Mx	.018	.25
10	MP2A	X	-108.297	4.75
11	MP2A	Z	62.525	4.75
12	MP2A	Mx	.018	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP4A	Mx	.028	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-108.297	.25
2	MP2A	Z	-62.525	.25
3	MP2A	Mx	.018	.25
4	MP2A	X	-108.297	4.75
5	MP2A	Z	-62.525	4.75
6	MP2A	Mx	.018	4.75
7	MP2A	X	-108.297	.25
8	MP2A	Z	-62.525	.25
9	MP2A	Mx	.091	.25
10	MP2A	X	-108.297	4.75
11	MP2A	Z	-62.525	4.75
12	MP2A	Mx	.091	4.75
13	MP3A	X	-45.916	1.5
14	MP3A	Z	-26.51	1.5
15	MP3A	Mx	.023	1.5
16	MP3A	X	-45.916	3
17	MP3A	Z	-26.51	3
18	MP3A	Mx	.023	3
19	M12	X	-137.275	2
20	M12	Z	-79.256	2
21	M12	Mx	0	2
22	MP1A	X	-50.498	2.5
23	MP1A	Z	-29.155	2.5
24	MP1A	Mx	-.025	2.5
25	MP2A	X	-47.466	2.5
26	MP2A	Z	-27.404	2.5
27	MP2A	Mx	-.024	2.5
28	MP4A	X	-51.944	.75
29	MP4A	Z	-29.99	.75
30	MP4A	Mx	.026	.75
31	MP4A	X	-51.944	3.75
32	MP4A	Z	-29.99	3.75
33	MP4A	Mx	.026	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-76.731	.25
2	MP2A	Z	-132.902	.25
3	MP2A	Mx	-.039	.25
4	MP2A	X	-76.731	4.75
5	MP2A	Z	-132.902	4.75
6	MP2A	Mx	-.039	4.75
7	MP2A	X	-76.731	.25
8	MP2A	Z	-132.902	.25
9	MP2A	Mx	.116	.25
10	MP2A	X	-76.731	4.75
11	MP2A	Z	-132.902	4.75
12	MP2A	Mx	.116	4.75
13	MP3A	X	-41.346	1.5
14	MP3A	Z	-71.614	1.5
15	MP3A	Mx	.021	1.5
16	MP3A	X	-41.346	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
17	MP3A	Z	-71.614	3
18	MP3A	Mx	.021	3
19	M12	X	-84.249	2
20	M12	Z	-145.923	2
21	M12	Mx	0	2
22	MP1A	X	-35.588	2.5
23	MP1A	Z	-61.64	2.5
24	MP1A	Mx	-.018	2.5
25	MP2A	X	-35.004	2.5
26	MP2A	Z	-60.629	2.5
27	MP2A	Mx	-.018	2.5
28	MP4A	X	-34.552	.75
29	MP4A	Z	-59.846	.75
30	MP4A	Mx	.017	.75
31	MP4A	X	-34.552	3.75
32	MP4A	Z	-59.846	3.75
33	MP4A	Mx	.017	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.25
2	MP2A	Z	-35.603	.25
3	MP2A	Mx	-.021	.25
4	MP2A	X	0	4.75
5	MP2A	Z	-35.603	4.75
6	MP2A	Mx	-.021	4.75
7	MP2A	X	0	.25
8	MP2A	Z	-35.603	.25
9	MP2A	Mx	.021	.25
10	MP2A	X	0	4.75
11	MP2A	Z	-35.603	4.75
12	MP2A	Mx	.021	4.75
13	MP3A	X	0	1.5
14	MP3A	Z	-21.425	1.5
15	MP3A	Mx	0	1.5
16	MP3A	X	0	3
17	MP3A	Z	-21.425	3
18	MP3A	Mx	0	3
19	M12	X	0	2
20	M12	Z	-35.276	2
21	M12	Mx	0	2
22	MP1A	X	0	2.5
23	MP1A	Z	-18.597	2.5
24	MP1A	Mx	0	2.5
25	MP2A	X	0	2.5
26	MP2A	Z	-18.597	2.5
27	MP2A	Mx	0	2.5
28	MP4A	X	0	.75
29	MP4A	Z	-16.91	.75
30	MP4A	Mx	0	.75
31	MP4A	X	0	3.75
32	MP4A	Z	-16.91	3.75
33	MP4A	Mx	0	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
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Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	16.485	.25
2	MP2A	Z	-28.552	.25
3	MP2A	Mx	-.025	.25
4	MP2A	X	16.485	4.75
5	MP2A	Z	-28.552	4.75
6	MP2A	Mx	-.025	4.75
7	MP2A	X	16.485	.25
8	MP2A	Z	-28.552	.25
9	MP2A	Mx	.008	.25
10	MP2A	X	16.485	4.75
11	MP2A	Z	-28.552	4.75
12	MP2A	Mx	.008	4.75
13	MP3A	X	9.227	1.5
14	MP3A	Z	-15.982	1.5
15	MP3A	Mx	-.005	1.5
16	MP3A	X	9.227	3
17	MP3A	Z	-15.982	3
18	MP3A	Mx	-.005	3
19	M12	X	15.694	2
20	M12	Z	-27.183	2
21	M12	Mx	0	2
22	MP1A	X	8.624	2.5
23	MP1A	Z	-14.938	2.5
24	MP1A	Mx	.004	2.5
25	MP2A	X	8.503	2.5
26	MP2A	Z	-14.728	2.5
27	MP2A	Mx	.004	2.5
28	MP4A	X	8.015	.75
29	MP4A	Z	-13.883	.75
30	MP4A	Mx	-.004	.75
31	MP4A	X	8.015	3.75
32	MP4A	Z	-13.883	3.75
33	MP4A	Mx	-.004	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	23.99	.25
2	MP2A	Z	-13.851	.25
3	MP2A	Mx	-.02	.25
4	MP2A	X	23.99	4.75
5	MP2A	Z	-13.851	4.75
6	MP2A	Mx	-.02	4.75
7	MP2A	X	23.99	.25
8	MP2A	Z	-13.851	.25
9	MP2A	Mx	-.004	.25
10	MP2A	X	23.99	4.75
11	MP2A	Z	-13.851	4.75
12	MP2A	Mx	-.004	4.75
13	MP3A	X	10.838	1.5
14	MP3A	Z	-6.257	1.5
15	MP3A	Mx	-.005	1.5
16	MP3A	X	10.838	3
17	MP3A	Z	-6.257	3
18	MP3A	Mx	-.005	3
19	M12	X	25.499	2
20	M12	Z	-14.722	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
21	M12	Mx	0	2
22	MP1A	X	12.604	2.5
23	MP1A	Z	-7.277	2.5
24	MP1A	Mx	.006	2.5
25	MP2A	X	11.973	2.5
26	MP2A	Z	-6.913	2.5
27	MP2A	Mx	.006	2.5
28	MP4A	X	12.359	.75
29	MP4A	Z	-7.136	.75
30	MP4A	Mx	-.006	.75
31	MP4A	X	12.359	3.75
32	MP4A	Z	-7.136	3.75
33	MP4A	Mx	-.006	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	25.067	.25
2	MP2A	Z	0	.25
3	MP2A	Mx	-.013	.25
4	MP2A	X	25.067	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	-.013	4.75
7	MP2A	X	25.067	.25
8	MP2A	Z	0	.25
9	MP2A	Mx	-.013	.25
10	MP2A	X	25.067	4.75
11	MP2A	Z	0	4.75
12	MP2A	Mx	-.013	4.75
13	MP3A	X	9.544	1.5
14	MP3A	Z	0	1.5
15	MP3A	Mx	-.005	1.5
16	MP3A	X	9.544	3
17	MP3A	Z	0	3
18	MP3A	Mx	-.005	3
19	M12	X	31.388	2
20	M12	Z	0	2
21	M12	Mx	0	2
22	MP1A	X	13.206	2.5
23	MP1A	Z	0	2.5
24	MP1A	Mx	.007	2.5
25	MP2A	X	12.235	2.5
26	MP2A	Z	0	2.5
27	MP2A	Mx	.006	2.5
28	MP4A	X	13.392	.75
29	MP4A	Z	0	.75
30	MP4A	Mx	-.007	.75
31	MP4A	X	13.392	3.75
32	MP4A	Z	0	3.75
33	MP4A	Mx	-.007	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	23.99	.25
2	MP2A	Z	13.851	.25
3	MP2A	Mx	-.004	.25
4	MP2A	X	23.99	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP2A	Z	13.851	4.75
6	MP2A	Mx	-.004	4.75
7	MP2A	X	23.99	.25
8	MP2A	Z	13.851	.25
9	MP2A	Mx	-.02	.25
10	MP2A	X	23.99	4.75
11	MP2A	Z	13.851	4.75
12	MP2A	Mx	-.02	4.75
13	MP3A	X	10.838	1.5
14	MP3A	Z	6.257	1.5
15	MP3A	Mx	-.005	1.5
16	MP3A	X	10.838	3
17	MP3A	Z	6.257	3
18	MP3A	Mx	-.005	3
19	M12	X	30.55	2
20	M12	Z	17.638	2
21	M12	Mx	0	2
22	MP1A	X	12.604	2.5
23	MP1A	Z	7.277	2.5
24	MP1A	Mx	.006	2.5
25	MP2A	X	11.973	2.5
26	MP2A	Z	6.913	2.5
27	MP2A	Mx	.006	2.5
28	MP4A	X	12.359	.75
29	MP4A	Z	7.136	.75
30	MP4A	Mx	-.006	.75
31	MP4A	X	12.359	3.75
32	MP4A	Z	7.136	3.75
33	MP4A	Mx	-.006	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	16.485	.25
2	MP2A	Z	28.552	.25
3	MP2A	Mx	.008	.25
4	MP2A	X	16.485	4.75
5	MP2A	Z	28.552	4.75
6	MP2A	Mx	.008	4.75
7	MP2A	X	16.485	.25
8	MP2A	Z	28.552	.25
9	MP2A	Mx	-.025	.25
10	MP2A	X	16.485	4.75
11	MP2A	Z	28.552	4.75
12	MP2A	Mx	-.025	4.75
13	MP3A	X	9.227	1.5
14	MP3A	Z	15.982	1.5
15	MP3A	Mx	-.005	1.5
16	MP3A	X	9.227	3
17	MP3A	Z	15.982	3
18	MP3A	Mx	-.005	3
19	M12	X	18.61	2
20	M12	Z	32.234	2
21	M12	Mx	0	2
22	MP1A	X	8.624	2.5
23	MP1A	Z	14.938	2.5
24	MP1A	Mx	.004	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP2A	X	8.503	2.5
26	MP2A	Z	14.728	2.5
27	MP2A	Mx	.004	2.5
28	MP4A	X	8.015	.75
29	MP4A	Z	13.883	.75
30	MP4A	Mx	-.004	.75
31	MP4A	X	8.015	3.75
32	MP4A	Z	13.883	3.75
33	MP4A	Mx	-.004	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.25
2	MP2A	Z	35.603	.25
3	MP2A	Mx	.021	.25
4	MP2A	X	0	4.75
5	MP2A	Z	35.603	4.75
6	MP2A	Mx	.021	4.75
7	MP2A	X	0	.25
8	MP2A	Z	35.603	.25
9	MP2A	Mx	-.021	.25
10	MP2A	X	0	4.75
11	MP2A	Z	35.603	4.75
12	MP2A	Mx	-.021	4.75
13	MP3A	X	0	1.5
14	MP3A	Z	21.425	1.5
15	MP3A	Mx	0	1.5
16	MP3A	X	0	3
17	MP3A	Z	21.425	3
18	MP3A	Mx	0	3
19	M12	X	0	2
20	M12	Z	35.276	2
21	M12	Mx	0	2
22	MP1A	X	0	2.5
23	MP1A	Z	18.597	2.5
24	MP1A	Mx	0	2.5
25	MP2A	X	0	2.5
26	MP2A	Z	18.597	2.5
27	MP2A	Mx	0	2.5
28	MP4A	X	0	.75
29	MP4A	Z	16.91	.75
30	MP4A	Mx	0	.75
31	MP4A	X	0	3.75
32	MP4A	Z	16.91	3.75
33	MP4A	Mx	0	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-16.485	.25
2	MP2A	Z	28.552	.25
3	MP2A	Mx	.025	.25
4	MP2A	X	-16.485	4.75
5	MP2A	Z	28.552	4.75
6	MP2A	Mx	.025	4.75
7	MP2A	X	-16.485	.25
8	MP2A	Z	28.552	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP2A	Mx	-.008	.25
10	MP2A	X	-16.485	4.75
11	MP2A	Z	28.552	4.75
12	MP2A	Mx	-.008	4.75
13	MP3A	X	-9.227	1.5
14	MP3A	Z	15.982	1.5
15	MP3A	Mx	.005	1.5
16	MP3A	X	-9.227	3
17	MP3A	Z	15.982	3
18	MP3A	Mx	.005	3
19	M12	X	-15.694	2
20	M12	Z	27.183	2
21	M12	Mx	0	2
22	MP1A	X	-8.624	2.5
23	MP1A	Z	14.938	2.5
24	MP1A	Mx	-.004	2.5
25	MP2A	X	-8.503	2.5
26	MP2A	Z	14.728	2.5
27	MP2A	Mx	-.004	2.5
28	MP4A	X	-8.015	.75
29	MP4A	Z	13.883	.75
30	MP4A	Mx	.004	.75
31	MP4A	X	-8.015	3.75
32	MP4A	Z	13.883	3.75
33	MP4A	Mx	.004	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-23.99	.25
2	MP2A	Z	13.851	.25
3	MP2A	Mx	.02	.25
4	MP2A	X	-23.99	4.75
5	MP2A	Z	13.851	4.75
6	MP2A	Mx	.02	4.75
7	MP2A	X	-23.99	.25
8	MP2A	Z	13.851	.25
9	MP2A	Mx	.004	.25
10	MP2A	X	-23.99	4.75
11	MP2A	Z	13.851	4.75
12	MP2A	Mx	.004	4.75
13	MP3A	X	-10.838	1.5
14	MP3A	Z	6.257	1.5
15	MP3A	Mx	.005	1.5
16	MP3A	X	-10.838	3
17	MP3A	Z	6.257	3
18	MP3A	Mx	.005	3
19	M12	X	-25.499	2
20	M12	Z	14.722	2
21	M12	Mx	0	2
22	MP1A	X	-12.604	2.5
23	MP1A	Z	7.277	2.5
24	MP1A	Mx	-.006	2.5
25	MP2A	X	-11.973	2.5
26	MP2A	Z	6.913	2.5
27	MP2A	Mx	-.006	2.5
28	MP4A	X	-12.359	.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	7.136	.75
30	MP4A	Mx	.006	.75
31	MP4A	X	-12.359	3.75
32	MP4A	Z	7.136	3.75
33	MP4A	Mx	.006	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-25.067	.25
2	MP2A	Z	0	.25
3	MP2A	Mx	.013	.25
4	MP2A	X	-25.067	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	.013	4.75
7	MP2A	X	-25.067	.25
8	MP2A	Z	0	.25
9	MP2A	Mx	.013	.25
10	MP2A	X	-25.067	4.75
11	MP2A	Z	0	4.75
12	MP2A	Mx	.013	4.75
13	MP3A	X	-9.544	1.5
14	MP3A	Z	0	1.5
15	MP3A	Mx	.005	1.5
16	MP3A	X	-9.544	3
17	MP3A	Z	0	3
18	MP3A	Mx	.005	3
19	M12	X	-31.388	2
20	M12	Z	0	2
21	M12	Mx	0	2
22	MP1A	X	-13.206	2.5
23	MP1A	Z	0	2.5
24	MP1A	Mx	-.007	2.5
25	MP2A	X	-12.235	2.5
26	MP2A	Z	0	2.5
27	MP2A	Mx	-.006	2.5
28	MP4A	X	-13.392	.75
29	MP4A	Z	0	.75
30	MP4A	Mx	.007	.75
31	MP4A	X	-13.392	3.75
32	MP4A	Z	0	3.75
33	MP4A	Mx	.007	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-23.99	.25
2	MP2A	Z	-13.851	.25
3	MP2A	Mx	.004	.25
4	MP2A	X	-23.99	4.75
5	MP2A	Z	-13.851	4.75
6	MP2A	Mx	.004	4.75
7	MP2A	X	-23.99	.25
8	MP2A	Z	-13.851	.25
9	MP2A	Mx	.02	.25
10	MP2A	X	-23.99	4.75
11	MP2A	Z	-13.851	4.75
12	MP2A	Mx	.02	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP3A	X	-10.838	1.5
14	MP3A	Z	-6.257	1.5
15	MP3A	Mx	.005	1.5
16	MP3A	X	-10.838	3
17	MP3A	Z	-6.257	3
18	MP3A	Mx	.005	3
19	M12	X	-30.55	2
20	M12	Z	-17.638	2
21	M12	Mx	0	2
22	MP1A	X	-12.604	2.5
23	MP1A	Z	-7.277	2.5
24	MP1A	Mx	-.006	2.5
25	MP2A	X	-11.973	2.5
26	MP2A	Z	-6.913	2.5
27	MP2A	Mx	-.006	2.5
28	MP4A	X	-12.359	.75
29	MP4A	Z	-7.136	.75
30	MP4A	Mx	.006	.75
31	MP4A	X	-12.359	3.75
32	MP4A	Z	-7.136	3.75
33	MP4A	Mx	.006	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-16.485	.25
2	MP2A	Z	-28.552	.25
3	MP2A	Mx	-.008	.25
4	MP2A	X	-16.485	4.75
5	MP2A	Z	-28.552	4.75
6	MP2A	Mx	-.008	4.75
7	MP2A	X	-16.485	.25
8	MP2A	Z	-28.552	.25
9	MP2A	Mx	.025	.25
10	MP2A	X	-16.485	4.75
11	MP2A	Z	-28.552	4.75
12	MP2A	Mx	.025	4.75
13	MP3A	X	-9.227	1.5
14	MP3A	Z	-15.982	1.5
15	MP3A	Mx	.005	1.5
16	MP3A	X	-9.227	3
17	MP3A	Z	-15.982	3
18	MP3A	Mx	.005	3
19	M12	X	-18.61	2
20	M12	Z	-32.234	2
21	M12	Mx	0	2
22	MP1A	X	-8.624	2.5
23	MP1A	Z	-14.938	2.5
24	MP1A	Mx	-.004	2.5
25	MP2A	X	-8.503	2.5
26	MP2A	Z	-14.728	2.5
27	MP2A	Mx	-.004	2.5
28	MP4A	X	-8.015	.75
29	MP4A	Z	-13.883	.75
30	MP4A	Mx	.004	.75
31	MP4A	X	-8.015	3.75
32	MP4A	Z	-13.883	3.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
33	MP4A	Mx	.004	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	0	.25
2	MP2A	Z	-11.024	.25
3	MP2A	Mx	-.006	.25
4	MP2A	X	0	4.75
5	MP2A	Z	-11.024	4.75
6	MP2A	Mx	-.006	4.75
7	MP2A	X	0	.25
8	MP2A	Z	-11.024	.25
9	MP2A	Mx	.006	.25
10	MP2A	X	0	4.75
11	MP2A	Z	-11.024	4.75
12	MP2A	Mx	.006	4.75
13	MP3A	X	0	1.5
14	MP3A	Z	-6.412	1.5
15	MP3A	Mx	0	1.5
16	MP3A	X	0	3
17	MP3A	Z	-6.412	3
18	MP3A	Mx	0	3
19	M12	X	0	2
20	M12	Z	-10.422	2
21	M12	Mx	0	2
22	MP1A	X	0	2.5
23	MP1A	Z	-5.102	2.5
24	MP1A	Mx	0	2.5
25	MP2A	X	0	2.5
26	MP2A	Z	-5.102	2.5
27	MP2A	Mx	0	2.5
28	MP4A	X	0	.75
29	MP4A	Z	-4.843	.75
30	MP4A	Mx	0	.75
31	MP4A	X	0	3.75
32	MP4A	Z	-4.843	3.75
33	MP4A	Mx	0	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	5.045	.25
2	MP2A	Z	-8.738	.25
3	MP2A	Mx	-.008	.25
4	MP2A	X	5.045	4.75
5	MP2A	Z	-8.738	4.75
6	MP2A	Mx	-.008	4.75
7	MP2A	X	5.045	.25
8	MP2A	Z	-8.738	.25
9	MP2A	Mx	.003	.25
10	MP2A	X	5.045	4.75
11	MP2A	Z	-8.738	4.75
12	MP2A	Mx	.003	4.75
13	MP3A	X	2.718	1.5
14	MP3A	Z	-4.708	1.5
15	MP3A	Mx	-.001	1.5
16	MP3A	X	2.718	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
17	MP3A	Z	-4.708	3
18	MP3A	Mx	-0.001	3
19	M12	X	4.554	2
20	M12	Z	-7.888	2
21	M12	Mx	0	2
22	MP1A	X	2.34	2.5
23	MP1A	Z	-4.053	2.5
24	MP1A	Mx	.001	2.5
25	MP2A	X	2.301	2.5
26	MP2A	Z	-3.986	2.5
27	MP2A	Mx	.001	2.5
28	MP4A	X	2.272	.75
29	MP4A	Z	-3.935	.75
30	MP4A	Mx	-.001	.75
31	MP4A	X	2.272	3.75
32	MP4A	Z	-3.935	3.75
33	MP4A	Mx	-.001	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	7.12	.25
2	MP2A	Z	-4.111	.25
3	MP2A	Mx	-.006	.25
4	MP2A	X	7.12	4.75
5	MP2A	Z	-4.111	4.75
6	MP2A	Mx	-.006	4.75
7	MP2A	X	7.12	.25
8	MP2A	Z	-4.111	.25
9	MP2A	Mx	-.001	.25
10	MP2A	X	7.12	4.75
11	MP2A	Z	-4.111	4.75
12	MP2A	Mx	-.001	4.75
13	MP3A	X	3.019	1.5
14	MP3A	Z	-1.743	1.5
15	MP3A	Mx	-.002	1.5
16	MP3A	X	3.019	3
17	MP3A	Z	-1.743	3
18	MP3A	Mx	-.002	3
19	M12	X	7.319	2
20	M12	Z	-4.226	2
21	M12	Mx	0	2
22	MP1A	X	3.32	2.5
23	MP1A	Z	-1.917	2.5
24	MP1A	Mx	.002	2.5
25	MP2A	X	3.121	2.5
26	MP2A	Z	-1.802	2.5
27	MP2A	Mx	.002	2.5
28	MP4A	X	3.415	.75
29	MP4A	Z	-1.972	.75
30	MP4A	Mx	-.002	.75
31	MP4A	X	3.415	3.75
32	MP4A	Z	-1.972	3.75
33	MP4A	Mx	-.002	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	7.288	.25
2	MP2A	Z	0	.25
3	MP2A	Mx	-.004	.25
4	MP2A	X	7.288	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	-.004	4.75
7	MP2A	X	7.288	.25
8	MP2A	Z	0	.25
9	MP2A	Mx	-.004	.25
10	MP2A	X	7.288	4.75
11	MP2A	Z	0	4.75
12	MP2A	Mx	-.004	4.75
13	MP3A	X	2.51	1.5
14	MP3A	Z	0	1.5
15	MP3A	Mx	-.001	1.5
16	MP3A	X	2.51	3
17	MP3A	Z	0	3
18	MP3A	Mx	-.001	3
19	M12	X	9.108	2
20	M12	Z	0	2
21	M12	Mx	0	2
22	MP1A	X	3.411	2.5
23	MP1A	Z	0	2.5
24	MP1A	Mx	.002	2.5
25	MP2A	X	3.104	2.5
26	MP2A	Z	0	2.5
27	MP2A	Mx	.002	2.5
28	MP4A	X	3.644	.75
29	MP4A	Z	0	.75
30	MP4A	Mx	-.002	.75
31	MP4A	X	3.644	3.75
32	MP4A	Z	0	3.75
33	MP4A	Mx	-.002	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	7.12	.25
2	MP2A	Z	4.111	.25
3	MP2A	Mx	-.001	.25
4	MP2A	X	7.12	4.75
5	MP2A	Z	4.111	4.75
6	MP2A	Mx	-.001	4.75
7	MP2A	X	7.12	.25
8	MP2A	Z	4.111	.25
9	MP2A	Mx	-.006	.25
10	MP2A	X	7.12	4.75
11	MP2A	Z	4.111	4.75
12	MP2A	Mx	-.006	4.75
13	MP3A	X	3.019	1.5
14	MP3A	Z	1.743	1.5
15	MP3A	Mx	-.002	1.5
16	MP3A	X	3.019	3
17	MP3A	Z	1.743	3
18	MP3A	Mx	-.002	3
19	M12	X	9.025	2
20	M12	Z	5.211	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	M12	Mx	0	2
22	MP1A	X	3.32	2.5
23	MP1A	Z	1.917	2.5
24	MP1A	Mx	.002	2.5
25	MP2A	X	3.121	2.5
26	MP2A	Z	1.802	2.5
27	MP2A	Mx	.002	2.5
28	MP4A	X	3.415	.75
29	MP4A	Z	1.972	.75
30	MP4A	Mx	-.002	.75
31	MP4A	X	3.415	3.75
32	MP4A	Z	1.972	3.75
33	MP4A	Mx	-.002	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	5.045	.25
2	MP2A	Z	8.738	.25
3	MP2A	Mx	.003	.25
4	MP2A	X	5.045	4.75
5	MP2A	Z	8.738	4.75
6	MP2A	Mx	.003	4.75
7	MP2A	X	5.045	.25
8	MP2A	Z	8.738	.25
9	MP2A	Mx	-.008	.25
10	MP2A	X	5.045	4.75
11	MP2A	Z	8.738	4.75
12	MP2A	Mx	-.008	4.75
13	MP3A	X	2.718	1.5
14	MP3A	Z	4.708	1.5
15	MP3A	Mx	-.001	1.5
16	MP3A	X	2.718	3
17	MP3A	Z	4.708	3
18	MP3A	Mx	-.001	3
19	M12	X	5.539	2
20	M12	Z	9.594	2
21	M12	Mx	0	2
22	MP1A	X	2.34	2.5
23	MP1A	Z	4.053	2.5
24	MP1A	Mx	.001	2.5
25	MP2A	X	2.301	2.5
26	MP2A	Z	3.986	2.5
27	MP2A	Mx	.001	2.5
28	MP4A	X	2.272	.75
29	MP4A	Z	3.935	.75
30	MP4A	Mx	-.001	.75
31	MP4A	X	2.272	3.75
32	MP4A	Z	3.935	3.75
33	MP4A	Mx	-.001	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.25
2	MP2A	Z	11.024	.25
3	MP2A	Mx	.006	.25
4	MP2A	X	0	4.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP2A	Z	11.024	4.75
6	MP2A	Mx	.006	4.75
7	MP2A	X	0	.25
8	MP2A	Z	11.024	.25
9	MP2A	Mx	-.006	.25
10	MP2A	X	0	4.75
11	MP2A	Z	11.024	4.75
12	MP2A	Mx	-.006	4.75
13	MP3A	X	0	1.5
14	MP3A	Z	6.412	1.5
15	MP3A	Mx	0	1.5
16	MP3A	X	0	3
17	MP3A	Z	6.412	3
18	MP3A	Mx	0	3
19	M12	X	0	2
20	M12	Z	10.422	2
21	M12	Mx	0	2
22	MP1A	X	0	2.5
23	MP1A	Z	5.102	2.5
24	MP1A	Mx	0	2.5
25	MP2A	X	0	2.5
26	MP2A	Z	5.102	2.5
27	MP2A	Mx	0	2.5
28	MP4A	X	0	.75
29	MP4A	Z	4.843	.75
30	MP4A	Mx	0	.75
31	MP4A	X	0	3.75
32	MP4A	Z	4.843	3.75
33	MP4A	Mx	0	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-5.045	.25
2	MP2A	Z	8.738	.25
3	MP2A	Mx	.008	.25
4	MP2A	X	-5.045	4.75
5	MP2A	Z	8.738	4.75
6	MP2A	Mx	.008	4.75
7	MP2A	X	-5.045	.25
8	MP2A	Z	8.738	.25
9	MP2A	Mx	-.003	.25
10	MP2A	X	-5.045	4.75
11	MP2A	Z	8.738	4.75
12	MP2A	Mx	-.003	4.75
13	MP3A	X	-2.718	1.5
14	MP3A	Z	4.708	1.5
15	MP3A	Mx	.001	1.5
16	MP3A	X	-2.718	3
17	MP3A	Z	4.708	3
18	MP3A	Mx	.001	3
19	M12	X	-4.554	2
20	M12	Z	7.888	2
21	M12	Mx	0	2
22	MP1A	X	-2.34	2.5
23	MP1A	Z	4.053	2.5
24	MP1A	Mx	-.001	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP2A	X	-2.301	2.5
26	MP2A	Z	3.986	2.5
27	MP2A	Mx	-.001	2.5
28	MP4A	X	-2.272	.75
29	MP4A	Z	3.935	.75
30	MP4A	Mx	.001	.75
31	MP4A	X	-2.272	3.75
32	MP4A	Z	3.935	3.75
33	MP4A	Mx	.001	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-7.12	.25
2	MP2A	Z	4.111	.25
3	MP2A	Mx	.006	.25
4	MP2A	X	-7.12	4.75
5	MP2A	Z	4.111	4.75
6	MP2A	Mx	.006	4.75
7	MP2A	X	-7.12	.25
8	MP2A	Z	4.111	.25
9	MP2A	Mx	.001	.25
10	MP2A	X	-7.12	4.75
11	MP2A	Z	4.111	4.75
12	MP2A	Mx	.001	4.75
13	MP3A	X	-3.019	1.5
14	MP3A	Z	1.743	1.5
15	MP3A	Mx	.002	1.5
16	MP3A	X	-3.019	3
17	MP3A	Z	1.743	3
18	MP3A	Mx	.002	3
19	M12	X	-7.319	2
20	M12	Z	4.226	2
21	M12	Mx	0	2
22	MP1A	X	-3.32	2.5
23	MP1A	Z	1.917	2.5
24	MP1A	Mx	-.002	2.5
25	MP2A	X	-3.121	2.5
26	MP2A	Z	1.802	2.5
27	MP2A	Mx	-.002	2.5
28	MP4A	X	-3.415	.75
29	MP4A	Z	1.972	.75
30	MP4A	Mx	.002	.75
31	MP4A	X	-3.415	3.75
32	MP4A	Z	1.972	3.75
33	MP4A	Mx	.002	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-7.288	.25
2	MP2A	Z	0	.25
3	MP2A	Mx	.004	.25
4	MP2A	X	-7.288	4.75
5	MP2A	Z	0	4.75
6	MP2A	Mx	.004	4.75
7	MP2A	X	-7.288	.25
8	MP2A	Z	0	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP2A	Mx	.004	.25
10	MP2A	X	-7.288	4.75
11	MP2A	Z	0	4.75
12	MP2A	Mx	.004	4.75
13	MP3A	X	-2.51	1.5
14	MP3A	Z	0	1.5
15	MP3A	Mx	.001	1.5
16	MP3A	X	-2.51	3
17	MP3A	Z	0	3
18	MP3A	Mx	.001	3
19	M12	X	-9.108	2
20	M12	Z	0	2
21	M12	Mx	0	2
22	MP1A	X	-3.411	2.5
23	MP1A	Z	0	2.5
24	MP1A	Mx	-.002	2.5
25	MP2A	X	-3.104	2.5
26	MP2A	Z	0	2.5
27	MP2A	Mx	-.002	2.5
28	MP4A	X	-3.644	.75
29	MP4A	Z	0	.75
30	MP4A	Mx	.002	.75
31	MP4A	X	-3.644	3.75
32	MP4A	Z	0	3.75
33	MP4A	Mx	.002	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-7.12	.25
2	MP2A	Z	-4.111	.25
3	MP2A	Mx	.001	.25
4	MP2A	X	-7.12	4.75
5	MP2A	Z	-4.111	4.75
6	MP2A	Mx	.001	4.75
7	MP2A	X	-7.12	.25
8	MP2A	Z	-4.111	.25
9	MP2A	Mx	.006	.25
10	MP2A	X	-7.12	4.75
11	MP2A	Z	-4.111	4.75
12	MP2A	Mx	.006	4.75
13	MP3A	X	-3.019	1.5
14	MP3A	Z	-1.743	1.5
15	MP3A	Mx	.002	1.5
16	MP3A	X	-3.019	3
17	MP3A	Z	-1.743	3
18	MP3A	Mx	.002	3
19	M12	X	-9.025	2
20	M12	Z	-5.211	2
21	M12	Mx	0	2
22	MP1A	X	-3.32	2.5
23	MP1A	Z	-1.917	2.5
24	MP1A	Mx	-.002	2.5
25	MP2A	X	-3.121	2.5
26	MP2A	Z	-1.802	2.5
27	MP2A	Mx	-.002	2.5
28	MP4A	X	-3.415	.75



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	-1.972	.75
30	MP4A	Mx	.002	.75
31	MP4A	X	-3.415	3.75
32	MP4A	Z	-1.972	3.75
33	MP4A	Mx	.002	3.75

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-5.045	.25
2	MP2A	Z	-8.738	.25
3	MP2A	Mx	-.003	.25
4	MP2A	X	-5.045	4.75
5	MP2A	Z	-8.738	4.75
6	MP2A	Mx	-.003	4.75
7	MP2A	X	-5.045	.25
8	MP2A	Z	-8.738	.25
9	MP2A	Mx	.008	.25
10	MP2A	X	-5.045	4.75
11	MP2A	Z	-8.738	4.75
12	MP2A	Mx	.008	4.75
13	MP3A	X	-2.718	1.5
14	MP3A	Z	-4.708	1.5
15	MP3A	Mx	.001	1.5
16	MP3A	X	-2.718	3
17	MP3A	Z	-4.708	3
18	MP3A	Mx	.001	3
19	M12	X	-5.539	2
20	M12	Z	-9.594	2
21	M12	Mx	0	2
22	MP1A	X	-2.34	2.5
23	MP1A	Z	-4.053	2.5
24	MP1A	Mx	-.001	2.5
25	MP2A	X	-2.301	2.5
26	MP2A	Z	-3.986	2.5
27	MP2A	Mx	-.001	2.5
28	MP4A	X	-2.272	.75
29	MP4A	Z	-3.935	.75
30	MP4A	Mx	.001	.75
31	MP4A	X	-2.272	3.75
32	MP4A	Z	-3.935	3.75
33	MP4A	Mx	.001	3.75

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-500	%63

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-500	%24

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	Y	-250	0



Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M10	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	M5	Y	-11.473	-11.473	0	%100
2	M6	Y	-11.473	-11.473	0	%100
3	M7	Y	-10.075	-10.075	0	%100
4	M8	Y	-11.473	-11.473	0	%100
5	M9	Y	-11.473	-11.473	0	%100
6	M10	Y	-10.075	-10.075	0	%100
7	M11	Y	-8.991	-8.991	0	%100
8	M12	Y	-8.991	-8.991	0	%100
9	M13	Y	-8.991	-8.991	0	%100
10	M14	Y	-8.991	-8.991	0	%100
11	M15	Y	-11.473	-11.473	0	%100
12	M16	Y	-7.962	-7.962	0	%100
13	M17	Y	-11.473	-11.473	0	%100
14	M18	Y	-7.962	-7.962	0	%100
15	M19	Y	-11.473	-11.473	0	%100
16	M20	Y	-11.473	-11.473	0	%100
17	M21	Y	-11.473	-11.473	0	%100
18	M22	Y	-7.962	-7.962	0	%100
19	M23	Y	-7.962	-7.962	0	%100
20	M24	Y	-8.991	-8.991	0	%100
21	M25	Y	-11.473	-11.473	0	%100
22	M26	Y	-11.473	-11.473	0	%100
23	M27	Y	-7.962	-7.962	0	%100
24	M28	Y	-11.473	-11.473	0	%100
25	M29	Y	-7.962	-7.962	0	%100
26	M30	Y	-11.473	-11.473	0	%100
27	M31	Y	-11.473	-11.473	0	%100
28	M32	Y	-11.473	-11.473	0	%100
29	M33	Y	-7.962	-7.962	0	%100
30	M34	Y	-7.962	-7.962	0	%100
31	M35	Y	-8.991	-8.991	0	%100
32	M36	Y	-11.473	-11.473	0	%100
33	M35A	Y	-11.473	-11.473	0	%100
34	M36A	Y	-11.473	-11.473	0	%100
35	M37	Y	-11.473	-11.473	0	%100
36	M38	Y	-11.473	-11.473	0	%100
37	MP1A	Y	-8.991	-8.991	0	%100
38	MP2A	Y	-8.991	-8.991	0	%100
39	MP3A	Y	-8.991	-8.991	0	%100
40	MP4A	Y	-8.991	-8.991	0	%100
41	M51	Y	-8.991	-8.991	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	M5	X	0	0	0	%100
2	M5	Z	-.763	-.763	0	%100
3	M6	X	0	0	0	%100
4	M6	Z	-.763	-.763	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	-11.932	-11.932	0	%100
7	M8	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
65	M35A	X	0	0	0	%100
66	M35A	Z	-2.032	-2.032	0	%100
67	M36A	X	0	0	0	%100
68	M36A	Z	-2.032	-2.032	0	%100
69	M37	X	0	0	0	%100
70	M37	Z	-1.643	-1.643	0	%100
71	M38	X	0	0	0	%100
72	M38	Z	-1.643	-1.643	0	%100
73	MP1A	X	0	0	0	%100
74	MP1A	Z	-9.857	-9.857	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-9.857	-9.857	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-9.857	-9.857	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-9.857	-9.857	0	%100
81	M51	X	0	0	0	%100
82	M51	Z	-1.047	-1.047	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	M5	X	.048	.048	0	%100
2	M5	Z	-.084	-.084	0	%100
3	M6	X	.722	.722	0	%100
4	M6	Z	-1.251	-1.251	0	%100
5	M7	X	4.474	4.474	0	%100
6	M7	Z	-7.75	-7.75	0	%100
7	M8	X	.048	.048	0	%100
8	M8	Z	-.084	-.084	0	%100
9	M9	X	.722	.722	0	%100
10	M9	Z	-1.251	-1.251	0	%100
11	M10	X	4.474	4.474	0	%100
12	M10	Z	-7.75	-7.75	0	%100
13	M11	X	.307	.307	0	%100
14	M11	Z	-.532	-.532	0	%100
15	M12	X	4.574	4.574	0	%100
16	M12	Z	-7.923	-7.923	0	%100
17	M13	X	.307	.307	0	%100
18	M13	Z	-.532	-.532	0	%100
19	M14	X	4.574	4.574	0	%100
20	M14	Z	-7.923	-7.923	0	%100
21	M15	X	2.432	2.432	0	%100
22	M15	Z	-4.212	-4.212	0	%100
23	M16	X	3.842	3.842	0	%100
24	M16	Z	-6.654	-6.654	0	%100
25	M17	X	2.432	2.432	0	%100
26	M17	Z	-4.212	-4.212	0	%100
27	M18	X	3.842	3.842	0	%100
28	M18	Z	-6.654	-6.654	0	%100
29	M19	X	2.432	2.432	0	%100
30	M19	Z	-4.212	-4.212	0	%100
31	M20	X	2.432	2.432	0	%100
32	M20	Z	-4.212	-4.212	0	%100
33	M21	X	2.432	2.432	0	%100
34	M21	Z	-4.212	-4.212	0	%100
35	M22	X	3.616	3.616	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.%]
36	M22	Z	-6.263	-6.263	0	%100
37	M23	X	3.616	3.616	0	%100
38	M23	Z	-6.263	-6.263	0	%100
39	M24	X	3.8	3.8	0	%100
40	M24	Z	-6.581	-6.581	0	%100
41	M25	X	2.578	2.578	0	%100
42	M25	Z	-4.465	-4.465	0	%100
43	M26	X	2.432	2.432	0	%100
44	M26	Z	-4.212	-4.212	0	%100
45	M27	X	2.626	2.626	0	%100
46	M27	Z	-4.549	-4.549	0	%100
47	M28	X	2.432	2.432	0	%100
48	M28	Z	-4.212	-4.212	0	%100
49	M29	X	2.355	2.355	0	%100
50	M29	Z	-4.079	-4.079	0	%100
51	M30	X	2.432	2.432	0	%100
52	M30	Z	-4.212	-4.212	0	%100
53	M31	X	2.432	2.432	0	%100
54	M31	Z	-4.212	-4.212	0	%100
55	M32	X	2.432	2.432	0	%100
56	M32	Z	-4.212	-4.212	0	%100
57	M33	X	3.616	3.616	0	%100
58	M33	Z	-6.263	-6.263	0	%100
59	M34	X	3.616	3.616	0	%100
60	M34	Z	-6.263	-6.263	0	%100
61	M35	X	3.8	3.8	0	%100
62	M35	Z	-6.581	-6.581	0	%100
63	M36	X	2.578	2.578	0	%100
64	M36	Z	-4.465	-4.465	0	%100
65	M35A	X	2.578	2.578	0	%100
66	M35A	Z	-4.465	-4.465	0	%100
67	M36A	X	2.578	2.578	0	%100
68	M36A	Z	-4.465	-4.465	0	%100
69	M37	X	2.432	2.432	0	%100
70	M37	Z	-4.212	-4.212	0	%100
71	M38	X	2.432	2.432	0	%100
72	M38	Z	-4.212	-4.212	0	%100
73	MP1A	X	4.928	4.928	0	%100
74	MP1A	Z	-8.536	-8.536	0	%100
75	MP2A	X	4.928	4.928	0	%100
76	MP2A	Z	-8.536	-8.536	0	%100
77	MP3A	X	4.928	4.928	0	%100
78	MP3A	Z	-8.536	-8.536	0	%100
79	MP4A	X	4.928	4.928	0	%100
80	MP4A	Z	-8.536	-8.536	0	%100
81	M51	X	.179	.179	0	%100
82	M51	Z	-.309	-.309	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	M5	X	.097	.097	0	%100
2	M5	Z	-.056	-.056	0	%100
3	M6	X	1.264	1.264	0	%100
4	M6	Z	-.73	-.73	0	%100
5	M7	X	2.583	2.583	0	%100
6	M7	Z	-1.491	-1.491	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.%,]
7	M8	X	.097	.097	0 %100
8	M8	Z	-.056	-.056	0 %100
9	M9	X	1.264	1.264	0 %100
10	M9	Z	-.73	-.73	0 %100
11	M10	X	2.583	2.583	0 %100
12	M10	Z	-1.491	-1.491	0 %100
13	M11	X	.613	.613	0 %100
14	M11	Z	-.354	-.354	0 %100
15	M12	X	8.004	8.004	0 %100
16	M12	Z	-4.621	-4.621	0 %100
17	M13	X	.613	.613	0 %100
18	M13	Z	-.354	-.354	0 %100
19	M14	X	8.004	8.004	0 %100
20	M14	Z	-4.621	-4.621	0 %100
21	M15	X	9.79	9.79	0 %100
22	M15	Z	-5.652	-5.652	0 %100
23	M16	X	6.677	6.677	0 %100
24	M16	Z	-3.855	-3.855	0 %100
25	M17	X	9.79	9.79	0 %100
26	M17	Z	-5.652	-5.652	0 %100
27	M18	X	6.677	6.677	0 %100
28	M18	Z	-3.855	-3.855	0 %100
29	M19	X	9.79	9.79	0 %100
30	M19	Z	-5.652	-5.652	0 %100
31	M20	X	9.79	9.79	0 %100
32	M20	Z	-5.652	-5.652	0 %100
33	M21	X	9.79	9.79	0 %100
34	M21	Z	-5.652	-5.652	0 %100
35	M22	X	6.263	6.263	0 %100
36	M22	Z	-3.616	-3.616	0 %100
37	M23	X	6.263	6.263	0 %100
38	M23	Z	-3.616	-3.616	0 %100
39	M24	X	6.581	6.581	0 %100
40	M24	Z	-3.8	-3.8	0 %100
41	M25	X	9.875	9.875	0 %100
42	M25	Z	-5.701	-5.701	0 %100
43	M26	X	9.79	9.79	0 %100
44	M26	Z	-5.652	-5.652	0 %100
45	M27	X	4.572	4.572	0 %100
46	M27	Z	-2.64	-2.64	0 %100
47	M28	X	9.79	9.79	0 %100
48	M28	Z	-5.652	-5.652	0 %100
49	M29	X	4.105	4.105	0 %100
50	M29	Z	-2.37	-2.37	0 %100
51	M30	X	9.79	9.79	0 %100
52	M30	Z	-5.652	-5.652	0 %100
53	M31	X	9.79	9.79	0 %100
54	M31	Z	-5.652	-5.652	0 %100
55	M32	X	9.79	9.79	0 %100
56	M32	Z	-5.652	-5.652	0 %100
57	M33	X	6.263	6.263	0 %100
58	M33	Z	-3.616	-3.616	0 %100
59	M34	X	6.263	6.263	0 %100
60	M34	Z	-3.616	-3.616	0 %100
61	M35	X	6.581	6.581	0 %100
62	M35	Z	-3.8	-3.8	0 %100
63	M36	X	9.875	9.875	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
64	M36	Z	-5.701	-5.701	0	%100
65	M35A	X	9.875	9.875	0	%100
66	M35A	Z	-5.701	-5.701	0	%100
67	M36A	X	9.875	9.875	0	%100
68	M36A	Z	-5.701	-5.701	0	%100
69	M37	X	9.79	9.79	0	%100
70	M37	Z	-5.652	-5.652	0	%100
71	M38	X	9.79	9.79	0	%100
72	M38	Z	-5.652	-5.652	0	%100
73	MP1A	X	8.536	8.536	0	%100
74	MP1A	Z	-4.928	-4.928	0	%100
75	MP2A	X	8.536	8.536	0	%100
76	MP2A	Z	-4.928	-4.928	0	%100
77	MP3A	X	8.536	8.536	0	%100
78	MP3A	Z	-4.928	-4.928	0	%100
79	MP4A	X	8.536	8.536	0	%100
80	MP4A	Z	-4.928	-4.928	0	%100
81	M51	X	3.67	3.67	0	%100
82	M51	Z	-2.119	-2.119	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	M5	X	.793	.793	0	%100
2	M5	Z	0	0	0	%100
3	M6	X	.793	.793	0	%100
4	M6	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	.793	.793	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	.793	.793	0	%100
10	M9	Z	0	0	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M11	X	5.022	5.022	0	%100
14	M11	Z	0	0	0	%100
15	M12	X	5.022	5.022	0	%100
16	M12	Z	0	0	0	%100
17	M13	X	5.022	5.022	0	%100
18	M13	Z	0	0	0	%100
19	M14	X	5.022	5.022	0	%100
20	M14	Z	0	0	0	%100
21	M15	X	14.526	14.526	0	%100
22	M15	Z	0	0	0	%100
23	M16	X	6.508	6.508	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	14.526	14.526	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	6.508	6.508	0	%100
28	M18	Z	0	0	0	%100
29	M19	X	14.526	14.526	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	14.526	14.526	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	14.526	14.526	0	%100
34	M21	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
35	M22	X	7.232	7.232	0	%100
36	M22	Z	0	0	0	%100
37	M23	X	7.232	7.232	0	%100
38	M23	Z	0	0	0	%100
39	M24	X	7.599	7.599	0	%100
40	M24	Z	0	0	0	%100
41	M25	X	14.526	14.526	0	%100
42	M25	Z	0	0	0	%100
43	M26	X	14.526	14.526	0	%100
44	M26	Z	0	0	0	%100
45	M27	X	6.508	6.508	0	%100
46	M27	Z	0	0	0	%100
47	M28	X	14.526	14.526	0	%100
48	M28	Z	0	0	0	%100
49	M29	X	6.135	6.135	0	%100
50	M29	Z	0	0	0	%100
51	M30	X	14.526	14.526	0	%100
52	M30	Z	0	0	0	%100
53	M31	X	14.526	14.526	0	%100
54	M31	Z	0	0	0	%100
55	M32	X	14.526	14.526	0	%100
56	M32	Z	0	0	0	%100
57	M33	X	7.232	7.232	0	%100
58	M33	Z	0	0	0	%100
59	M34	X	7.232	7.232	0	%100
60	M34	Z	0	0	0	%100
61	M35	X	7.599	7.599	0	%100
62	M35	Z	0	0	0	%100
63	M36	X	14.526	14.526	0	%100
64	M36	Z	0	0	0	%100
65	M35A	X	14.526	14.526	0	%100
66	M35A	Z	0	0	0	%100
67	M36A	X	14.526	14.526	0	%100
68	M36A	Z	0	0	0	%100
69	M37	X	14.526	14.526	0	%100
70	M37	Z	0	0	0	%100
71	M38	X	14.526	14.526	0	%100
72	M38	Z	0	0	0	%100
73	MP1A	X	9.857	9.857	0	%100
74	MP1A	Z	0	0	0	%100
75	MP2A	X	9.857	9.857	0	%100
76	MP2A	Z	0	0	0	%100
77	MP3A	X	9.857	9.857	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	9.857	9.857	0	%100
80	MP4A	Z	0	0	0	%100
81	M51	X	8.809	8.809	0	%100
82	M51	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	M5	X	1.264	1.264	0	%100
2	M5	Z	.73	.73	0	%100
3	M6	X	.097	.097	0	%100
4	M6	Z	.056	.056	0	%100
5	M7	X	2.583	2.583	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.%]
6	M7	Z	1.491	1.491	0 %100
7	M8	X	1.264	1.264	0 %100
8	M8	Z	.73	.73	0 %100
9	M9	X	.097	.097	0 %100
10	M9	Z	.056	.056	0 %100
11	M10	X	2.583	2.583	0 %100
12	M10	Z	1.491	1.491	0 %100
13	M11	X	8.004	8.004	0 %100
14	M11	Z	4.621	4.621	0 %100
15	M12	X	.613	.613	0 %100
16	M12	Z	.354	.354	0 %100
17	M13	X	8.004	8.004	0 %100
18	M13	Z	4.621	4.621	0 %100
19	M14	X	.613	.613	0 %100
20	M14	Z	.354	.354	0 %100
21	M15	X	9.79	9.79	0 %100
22	M15	Z	5.652	5.652	0 %100
23	M16	X	4.572	4.572	0 %100
24	M16	Z	2.64	2.64	0 %100
25	M17	X	9.79	9.79	0 %100
26	M17	Z	5.652	5.652	0 %100
27	M18	X	4.572	4.572	0 %100
28	M18	Z	2.64	2.64	0 %100
29	M19	X	9.79	9.79	0 %100
30	M19	Z	5.652	5.652	0 %100
31	M20	X	9.79	9.79	0 %100
32	M20	Z	5.652	5.652	0 %100
33	M21	X	9.79	9.79	0 %100
34	M21	Z	5.652	5.652	0 %100
35	M22	X	6.263	6.263	0 %100
36	M22	Z	3.616	3.616	0 %100
37	M23	X	6.263	6.263	0 %100
38	M23	Z	3.616	3.616	0 %100
39	M24	X	6.581	6.581	0 %100
40	M24	Z	3.8	3.8	0 %100
41	M25	X	9.875	9.875	0 %100
42	M25	Z	5.701	5.701	0 %100
43	M26	X	9.79	9.79	0 %100
44	M26	Z	5.652	5.652	0 %100
45	M27	X	6.677	6.677	0 %100
46	M27	Z	3.855	3.855	0 %100
47	M28	X	9.79	9.79	0 %100
48	M28	Z	5.652	5.652	0 %100
49	M29	X	6.495	6.495	0 %100
50	M29	Z	3.75	3.75	0 %100
51	M30	X	9.79	9.79	0 %100
52	M30	Z	5.652	5.652	0 %100
53	M31	X	9.79	9.79	0 %100
54	M31	Z	5.652	5.652	0 %100
55	M32	X	9.79	9.79	0 %100
56	M32	Z	5.652	5.652	0 %100
57	M33	X	6.263	6.263	0 %100
58	M33	Z	3.616	3.616	0 %100
59	M34	X	6.263	6.263	0 %100
60	M34	Z	3.616	3.616	0 %100
61	M35	X	6.581	6.581	0 %100
62	M35	Z	3.8	3.8	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
63	M36	X	9.875	9.875	0	%100
64	M36	Z	5.701	5.701	0	%100
65	M35A	X	9.875	9.875	0	%100
66	M35A	Z	5.701	5.701	0	%100
67	M36A	X	9.875	9.875	0	%100
68	M36A	Z	5.701	5.701	0	%100
69	M37	X	9.79	9.79	0	%100
70	M37	Z	5.652	5.652	0	%100
71	M38	X	9.79	9.79	0	%100
72	M38	Z	5.652	5.652	0	%100
73	MP1A	X	8.536	8.536	0	%100
74	MP1A	Z	4.928	4.928	0	%100
75	MP2A	X	8.536	8.536	0	%100
76	MP2A	Z	4.928	4.928	0	%100
77	MP3A	X	8.536	8.536	0	%100
78	MP3A	Z	4.928	4.928	0	%100
79	MP4A	X	8.536	8.536	0	%100
80	MP4A	Z	4.928	4.928	0	%100
81	M51	X	8.227	8.227	0	%100
82	M51	Z	4.75	4.75	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	M5	X	.722	.722	0	%100
2	M5	Z	1.251	1.251	0	%100
3	M6	X	.048	.048	0	%100
4	M6	Z	.084	.084	0	%100
5	M7	X	4.474	4.474	0	%100
6	M7	Z	7.75	7.75	0	%100
7	M8	X	.722	.722	0	%100
8	M8	Z	1.251	1.251	0	%100
9	M9	X	.048	.048	0	%100
10	M9	Z	.084	.084	0	%100
11	M10	X	4.474	4.474	0	%100
12	M10	Z	7.75	7.75	0	%100
13	M11	X	4.574	4.574	0	%100
14	M11	Z	7.923	7.923	0	%100
15	M12	X	.307	.307	0	%100
16	M12	Z	.532	.532	0	%100
17	M13	X	4.574	4.574	0	%100
18	M13	Z	7.923	7.923	0	%100
19	M14	X	.307	.307	0	%100
20	M14	Z	.532	.532	0	%100
21	M15	X	2.432	2.432	0	%100
22	M15	Z	4.212	4.212	0	%100
23	M16	X	2.626	2.626	0	%100
24	M16	Z	4.549	4.549	0	%100
25	M17	X	2.432	2.432	0	%100
26	M17	Z	4.212	4.212	0	%100
27	M18	X	2.626	2.626	0	%100
28	M18	Z	4.549	4.549	0	%100
29	M19	X	2.432	2.432	0	%100
30	M19	Z	4.212	4.212	0	%100
31	M20	X	2.432	2.432	0	%100
32	M20	Z	4.212	4.212	0	%100
33	M21	X	2.432	2.432	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
34	M21	Z	4.212	4.212	0	%100
35	M22	X	3.616	3.616	0	%100
36	M22	Z	6.263	6.263	0	%100
37	M23	X	3.616	3.616	0	%100
38	M23	Z	6.263	6.263	0	%100
39	M24	X	3.8	3.8	0	%100
40	M24	Z	6.581	6.581	0	%100
41	M25	X	2.578	2.578	0	%100
42	M25	Z	4.465	4.465	0	%100
43	M26	X	2.432	2.432	0	%100
44	M26	Z	4.212	4.212	0	%100
45	M27	X	3.842	3.842	0	%100
46	M27	Z	6.654	6.654	0	%100
47	M28	X	2.432	2.432	0	%100
48	M28	Z	4.212	4.212	0	%100
49	M29	X	3.735	3.735	0	%100
50	M29	Z	6.469	6.469	0	%100
51	M30	X	2.432	2.432	0	%100
52	M30	Z	4.212	4.212	0	%100
53	M31	X	2.432	2.432	0	%100
54	M31	Z	4.212	4.212	0	%100
55	M32	X	2.432	2.432	0	%100
56	M32	Z	4.212	4.212	0	%100
57	M33	X	3.616	3.616	0	%100
58	M33	Z	6.263	6.263	0	%100
59	M34	X	3.616	3.616	0	%100
60	M34	Z	6.263	6.263	0	%100
61	M35	X	3.8	3.8	0	%100
62	M35	Z	6.581	6.581	0	%100
63	M36	X	2.578	2.578	0	%100
64	M36	Z	4.465	4.465	0	%100
65	M35A	X	2.578	2.578	0	%100
66	M35A	Z	4.465	4.465	0	%100
67	M36A	X	2.578	2.578	0	%100
68	M36A	Z	4.465	4.465	0	%100
69	M37	X	2.432	2.432	0	%100
70	M37	Z	4.212	4.212	0	%100
71	M38	X	2.432	2.432	0	%100
72	M38	Z	4.212	4.212	0	%100
73	MP1A	X	4.928	4.928	0	%100
74	MP1A	Z	8.536	8.536	0	%100
75	MP2A	X	4.928	4.928	0	%100
76	MP2A	Z	8.536	8.536	0	%100
77	MP3A	X	4.928	4.928	0	%100
78	MP3A	Z	8.536	8.536	0	%100
79	MP4A	X	4.928	4.928	0	%100
80	MP4A	Z	8.536	8.536	0	%100
81	M51	X	2.809	2.809	0	%100
82	M51	Z	4.866	4.866	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	M5	X	0	0	0	%100
2	M5	Z	.763	.763	0	%100
3	M6	X	0	0	0	%100
4	M6	Z	.763	.763	0	%100



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 Designer : AJH
 Job Number :
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Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
5	M7	X	0	0	%100
6	M7	Z	11.932	11.932	%100
7	M8	X	0	0	%100
8	M8	Z	.763	.763	%100
9	M9	X	0	0	%100
10	M9	Z	.763	.763	%100
11	M10	X	0	0	%100
12	M10	Z	11.932	11.932	%100
13	M11	X	0	0	%100
14	M11	Z	4.834	4.834	%100
15	M12	X	0	0	%100
16	M12	Z	4.834	4.834	%100
17	M13	X	0	0	%100
18	M13	Z	4.834	4.834	%100
19	M14	X	0	0	%100
20	M14	Z	4.834	4.834	%100
21	M15	X	0	0	%100
22	M15	Z	1.643	1.643	%100
23	M16	X	0	0	%100
24	M16	Z	6.455	6.455	%100
25	M17	X	0	0	%100
26	M17	Z	1.643	1.643	%100
27	M18	X	0	0	%100
28	M18	Z	6.455	6.455	%100
29	M19	X	0	0	%100
30	M19	Z	1.643	1.643	%100
31	M20	X	0	0	%100
32	M20	Z	1.643	1.643	%100
33	M21	X	0	0	%100
34	M21	Z	1.643	1.643	%100
35	M22	X	0	0	%100
36	M22	Z	7.232	7.232	%100
37	M23	X	0	0	%100
38	M23	Z	7.232	7.232	%100
39	M24	X	0	0	%100
40	M24	Z	7.599	7.599	%100
41	M25	X	0	0	%100
42	M25	Z	2.032	2.032	%100
43	M26	X	0	0	%100
44	M26	Z	1.643	1.643	%100
45	M27	X	0	0	%100
46	M27	Z	6.455	6.455	%100
47	M28	X	0	0	%100
48	M28	Z	1.643	1.643	%100
49	M29	X	0	0	%100
50	M29	Z	6.074	6.074	%100
51	M30	X	0	0	%100
52	M30	Z	1.643	1.643	%100
53	M31	X	0	0	%100
54	M31	Z	1.643	1.643	%100
55	M32	X	0	0	%100
56	M32	Z	1.643	1.643	%100
57	M33	X	0	0	%100
58	M33	Z	7.232	7.232	%100
59	M34	X	0	0	%100
60	M34	Z	7.232	7.232	%100
61	M35	X	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.%,]
62	M35	Z	7.599	7.599	0	%100
63	M36	X	0	0	0	%100
64	M36	Z	2.032	2.032	0	%100
65	M35A	X	0	0	0	%100
66	M35A	Z	2.032	2.032	0	%100
67	M36A	X	0	0	0	%100
68	M36A	Z	2.032	2.032	0	%100
69	M37	X	0	0	0	%100
70	M37	Z	1.643	1.643	0	%100
71	M38	X	0	0	0	%100
72	M38	Z	1.643	1.643	0	%100
73	MP1A	X	0	0	0	%100
74	MP1A	Z	9.857	9.857	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	9.857	9.857	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	9.857	9.857	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	9.857	9.857	0	%100
81	M51	X	0	0	0	%100
82	M51	Z	1.047	1.047	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	M5	X	-.048	-.048	0	%100
2	M5	Z	.084	.084	0	%100
3	M6	X	-.722	-.722	0	%100
4	M6	Z	1.251	1.251	0	%100
5	M7	X	-4.474	-4.474	0	%100
6	M7	Z	7.75	7.75	0	%100
7	M8	X	-.048	-.048	0	%100
8	M8	Z	.084	.084	0	%100
9	M9	X	-.722	-.722	0	%100
10	M9	Z	1.251	1.251	0	%100
11	M10	X	-4.474	-4.474	0	%100
12	M10	Z	7.75	7.75	0	%100
13	M11	X	-.307	-.307	0	%100
14	M11	Z	.532	.532	0	%100
15	M12	X	-4.574	-4.574	0	%100
16	M12	Z	7.923	7.923	0	%100
17	M13	X	-.307	-.307	0	%100
18	M13	Z	.532	.532	0	%100
19	M14	X	-4.574	-4.574	0	%100
20	M14	Z	7.923	7.923	0	%100
21	M15	X	-2.432	-2.432	0	%100
22	M15	Z	4.212	4.212	0	%100
23	M16	X	-3.842	-3.842	0	%100
24	M16	Z	6.654	6.654	0	%100
25	M17	X	-2.432	-2.432	0	%100
26	M17	Z	4.212	4.212	0	%100
27	M18	X	-3.842	-3.842	0	%100
28	M18	Z	6.654	6.654	0	%100
29	M19	X	-2.432	-2.432	0	%100
30	M19	Z	4.212	4.212	0	%100
31	M20	X	-2.432	-2.432	0	%100
32	M20	Z	4.212	4.212	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.%,]
33	M21	X	-2.432	-2.432	0	%100
34	M21	Z	4.212	4.212	0	%100
35	M22	X	-3.616	-3.616	0	%100
36	M22	Z	6.263	6.263	0	%100
37	M23	X	-3.616	-3.616	0	%100
38	M23	Z	6.263	6.263	0	%100
39	M24	X	-3.8	-3.8	0	%100
40	M24	Z	6.581	6.581	0	%100
41	M25	X	-2.578	-2.578	0	%100
42	M25	Z	4.465	4.465	0	%100
43	M26	X	-2.432	-2.432	0	%100
44	M26	Z	4.212	4.212	0	%100
45	M27	X	-2.626	-2.626	0	%100
46	M27	Z	4.549	4.549	0	%100
47	M28	X	-2.432	-2.432	0	%100
48	M28	Z	4.212	4.212	0	%100
49	M29	X	-2.355	-2.355	0	%100
50	M29	Z	4.079	4.079	0	%100
51	M30	X	-2.432	-2.432	0	%100
52	M30	Z	4.212	4.212	0	%100
53	M31	X	-2.432	-2.432	0	%100
54	M31	Z	4.212	4.212	0	%100
55	M32	X	-2.432	-2.432	0	%100
56	M32	Z	4.212	4.212	0	%100
57	M33	X	-3.616	-3.616	0	%100
58	M33	Z	6.263	6.263	0	%100
59	M34	X	-3.616	-3.616	0	%100
60	M34	Z	6.263	6.263	0	%100
61	M35	X	-3.8	-3.8	0	%100
62	M35	Z	6.581	6.581	0	%100
63	M36	X	-2.578	-2.578	0	%100
64	M36	Z	4.465	4.465	0	%100
65	M35A	X	-2.578	-2.578	0	%100
66	M35A	Z	4.465	4.465	0	%100
67	M36A	X	-2.578	-2.578	0	%100
68	M36A	Z	4.465	4.465	0	%100
69	M37	X	-2.432	-2.432	0	%100
70	M37	Z	4.212	4.212	0	%100
71	M38	X	-2.432	-2.432	0	%100
72	M38	Z	4.212	4.212	0	%100
73	MP1A	X	-4.928	-4.928	0	%100
74	MP1A	Z	8.536	8.536	0	%100
75	MP2A	X	-4.928	-4.928	0	%100
76	MP2A	Z	8.536	8.536	0	%100
77	MP3A	X	-4.928	-4.928	0	%100
78	MP3A	Z	8.536	8.536	0	%100
79	MP4A	X	-4.928	-4.928	0	%100
80	MP4A	Z	8.536	8.536	0	%100
81	M51	X	-.179	-.179	0	%100
82	M51	Z	.309	.309	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	M5	X	-.097	-.097	0	%100
2	M5	Z	.056	.056	0	%100
3	M6	X	-1.264	-1.264	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
4	M6	Z	.73	.73	0 %100
5	M7	X	-2.583	-2.583	0 %100
6	M7	Z	1.491	1.491	0 %100
7	M8	X	-.097	-.097	0 %100
8	M8	Z	.056	.056	0 %100
9	M9	X	-1.264	-1.264	0 %100
10	M9	Z	.73	.73	0 %100
11	M10	X	-2.583	-2.583	0 %100
12	M10	Z	1.491	1.491	0 %100
13	M11	X	-.613	-.613	0 %100
14	M11	Z	.354	.354	0 %100
15	M12	X	-8.004	-8.004	0 %100
16	M12	Z	4.621	4.621	0 %100
17	M13	X	-.613	-.613	0 %100
18	M13	Z	.354	.354	0 %100
19	M14	X	-8.004	-8.004	0 %100
20	M14	Z	4.621	4.621	0 %100
21	M15	X	-9.79	-9.79	0 %100
22	M15	Z	5.652	5.652	0 %100
23	M16	X	-6.677	-6.677	0 %100
24	M16	Z	3.855	3.855	0 %100
25	M17	X	-9.79	-9.79	0 %100
26	M17	Z	5.652	5.652	0 %100
27	M18	X	-6.677	-6.677	0 %100
28	M18	Z	3.855	3.855	0 %100
29	M19	X	-9.79	-9.79	0 %100
30	M19	Z	5.652	5.652	0 %100
31	M20	X	-9.79	-9.79	0 %100
32	M20	Z	5.652	5.652	0 %100
33	M21	X	-9.79	-9.79	0 %100
34	M21	Z	5.652	5.652	0 %100
35	M22	X	-6.263	-6.263	0 %100
36	M22	Z	3.616	3.616	0 %100
37	M23	X	-6.263	-6.263	0 %100
38	M23	Z	3.616	3.616	0 %100
39	M24	X	-6.581	-6.581	0 %100
40	M24	Z	3.8	3.8	0 %100
41	M25	X	-9.875	-9.875	0 %100
42	M25	Z	5.701	5.701	0 %100
43	M26	X	-9.79	-9.79	0 %100
44	M26	Z	5.652	5.652	0 %100
45	M27	X	-4.572	-4.572	0 %100
46	M27	Z	2.64	2.64	0 %100
47	M28	X	-9.79	-9.79	0 %100
48	M28	Z	5.652	5.652	0 %100
49	M29	X	-4.105	-4.105	0 %100
50	M29	Z	2.37	2.37	0 %100
51	M30	X	-9.79	-9.79	0 %100
52	M30	Z	5.652	5.652	0 %100
53	M31	X	-9.79	-9.79	0 %100
54	M31	Z	5.652	5.652	0 %100
55	M32	X	-9.79	-9.79	0 %100
56	M32	Z	5.652	5.652	0 %100
57	M33	X	-6.263	-6.263	0 %100
58	M33	Z	3.616	3.616	0 %100
59	M34	X	-6.263	-6.263	0 %100
60	M34	Z	3.616	3.616	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M35	X	-6.581	-6.581	0	%100
62	M35	Z	3.8	3.8	0	%100
63	M36	X	-9.875	-9.875	0	%100
64	M36	Z	5.701	5.701	0	%100
65	M35A	X	-9.875	-9.875	0	%100
66	M35A	Z	5.701	5.701	0	%100
67	M36A	X	-9.875	-9.875	0	%100
68	M36A	Z	5.701	5.701	0	%100
69	M37	X	-9.79	-9.79	0	%100
70	M37	Z	5.652	5.652	0	%100
71	M38	X	-9.79	-9.79	0	%100
72	M38	Z	5.652	5.652	0	%100
73	MP1A	X	-8.536	-8.536	0	%100
74	MP1A	Z	4.928	4.928	0	%100
75	MP2A	X	-8.536	-8.536	0	%100
76	MP2A	Z	4.928	4.928	0	%100
77	MP3A	X	-8.536	-8.536	0	%100
78	MP3A	Z	4.928	4.928	0	%100
79	MP4A	X	-8.536	-8.536	0	%100
80	MP4A	Z	4.928	4.928	0	%100
81	M51	X	-3.67	-3.67	0	%100
82	M51	Z	2.119	2.119	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	M5	X	-7.93	-7.93	0	%100
2	M5	Z	0	0	0	%100
3	M6	X	-7.93	-7.93	0	%100
4	M6	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	-7.93	-7.93	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	-7.93	-7.93	0	%100
10	M9	Z	0	0	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M11	X	-5.022	-5.022	0	%100
14	M11	Z	0	0	0	%100
15	M12	X	-5.022	-5.022	0	%100
16	M12	Z	0	0	0	%100
17	M13	X	-5.022	-5.022	0	%100
18	M13	Z	0	0	0	%100
19	M14	X	-5.022	-5.022	0	%100
20	M14	Z	0	0	0	%100
21	M15	X	-14.526	-14.526	0	%100
22	M15	Z	0	0	0	%100
23	M16	X	-6.508	-6.508	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	-14.526	-14.526	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	-6.508	-6.508	0	%100
28	M18	Z	0	0	0	%100
29	M19	X	-14.526	-14.526	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	-14.526	-14.526	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.%]
32	M20	Z	0	0	%100
33	M21	X	-14.526	-14.526	%100
34	M21	Z	0	0	%100
35	M22	X	-7.232	-7.232	%100
36	M22	Z	0	0	%100
37	M23	X	-7.232	-7.232	%100
38	M23	Z	0	0	%100
39	M24	X	-7.599	-7.599	%100
40	M24	Z	0	0	%100
41	M25	X	-14.526	-14.526	%100
42	M25	Z	0	0	%100
43	M26	X	-14.526	-14.526	%100
44	M26	Z	0	0	%100
45	M27	X	-6.508	-6.508	%100
46	M27	Z	0	0	%100
47	M28	X	-14.526	-14.526	%100
48	M28	Z	0	0	%100
49	M29	X	-6.135	-6.135	%100
50	M29	Z	0	0	%100
51	M30	X	-14.526	-14.526	%100
52	M30	Z	0	0	%100
53	M31	X	-14.526	-14.526	%100
54	M31	Z	0	0	%100
55	M32	X	-14.526	-14.526	%100
56	M32	Z	0	0	%100
57	M33	X	-7.232	-7.232	%100
58	M33	Z	0	0	%100
59	M34	X	-7.232	-7.232	%100
60	M34	Z	0	0	%100
61	M35	X	-7.599	-7.599	%100
62	M35	Z	0	0	%100
63	M36	X	-14.526	-14.526	%100
64	M36	Z	0	0	%100
65	M35A	X	-14.526	-14.526	%100
66	M35A	Z	0	0	%100
67	M36A	X	-14.526	-14.526	%100
68	M36A	Z	0	0	%100
69	M37	X	-14.526	-14.526	%100
70	M37	Z	0	0	%100
71	M38	X	-14.526	-14.526	%100
72	M38	Z	0	0	%100
73	MP1A	X	-9.857	-9.857	%100
74	MP1A	Z	0	0	%100
75	MP2A	X	-9.857	-9.857	%100
76	MP2A	Z	0	0	%100
77	MP3A	X	-9.857	-9.857	%100
78	MP3A	Z	0	0	%100
79	MP4A	X	-9.857	-9.857	%100
80	MP4A	Z	0	0	%100
81	M51	X	-8.809	-8.809	%100
82	M51	Z	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	M5	X	-1.264	-1.264	%100
2	M5	Z	-.73	-.73	%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.%]	
3	M6	X	-0.097	-0.097	0	%100
4	M6	Z	-0.056	-0.056	0	%100
5	M7	X	-2.583	-2.583	0	%100
6	M7	Z	-1.491	-1.491	0	%100
7	M8	X	-1.264	-1.264	0	%100
8	M8	Z	-0.73	-0.73	0	%100
9	M9	X	-0.097	-0.097	0	%100
10	M9	Z	-0.056	-0.056	0	%100
11	M10	X	-2.583	-2.583	0	%100
12	M10	Z	-1.491	-1.491	0	%100
13	M11	X	-8.004	-8.004	0	%100
14	M11	Z	-4.621	-4.621	0	%100
15	M12	X	-0.613	-0.613	0	%100
16	M12	Z	-0.354	-0.354	0	%100
17	M13	X	-8.004	-8.004	0	%100
18	M13	Z	-4.621	-4.621	0	%100
19	M14	X	-0.613	-0.613	0	%100
20	M14	Z	-0.354	-0.354	0	%100
21	M15	X	-9.79	-9.79	0	%100
22	M15	Z	-5.652	-5.652	0	%100
23	M16	X	-4.572	-4.572	0	%100
24	M16	Z	-2.64	-2.64	0	%100
25	M17	X	-9.79	-9.79	0	%100
26	M17	Z	-5.652	-5.652	0	%100
27	M18	X	-4.572	-4.572	0	%100
28	M18	Z	-2.64	-2.64	0	%100
29	M19	X	-9.79	-9.79	0	%100
30	M19	Z	-5.652	-5.652	0	%100
31	M20	X	-9.79	-9.79	0	%100
32	M20	Z	-5.652	-5.652	0	%100
33	M21	X	-9.79	-9.79	0	%100
34	M21	Z	-5.652	-5.652	0	%100
35	M22	X	-6.263	-6.263	0	%100
36	M22	Z	-3.616	-3.616	0	%100
37	M23	X	-6.263	-6.263	0	%100
38	M23	Z	-3.616	-3.616	0	%100
39	M24	X	-6.581	-6.581	0	%100
40	M24	Z	-3.8	-3.8	0	%100
41	M25	X	-9.875	-9.875	0	%100
42	M25	Z	-5.701	-5.701	0	%100
43	M26	X	-9.79	-9.79	0	%100
44	M26	Z	-5.652	-5.652	0	%100
45	M27	X	-6.677	-6.677	0	%100
46	M27	Z	-3.855	-3.855	0	%100
47	M28	X	-9.79	-9.79	0	%100
48	M28	Z	-5.652	-5.652	0	%100
49	M29	X	-6.495	-6.495	0	%100
50	M29	Z	-3.75	-3.75	0	%100
51	M30	X	-9.79	-9.79	0	%100
52	M30	Z	-5.652	-5.652	0	%100
53	M31	X	-9.79	-9.79	0	%100
54	M31	Z	-5.652	-5.652	0	%100
55	M32	X	-9.79	-9.79	0	%100
56	M32	Z	-5.652	-5.652	0	%100
57	M33	X	-6.263	-6.263	0	%100
58	M33	Z	-3.616	-3.616	0	%100
59	M34	X	-6.263	-6.263	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft, %]	End Location[ft, %]
60	M34	Z	-3.616	-3.616	0	%100
61	M35	X	-6.581	-6.581	0	%100
62	M35	Z	-3.8	-3.8	0	%100
63	M36	X	-9.875	-9.875	0	%100
64	M36	Z	-5.701	-5.701	0	%100
65	M35A	X	-9.875	-9.875	0	%100
66	M35A	Z	-5.701	-5.701	0	%100
67	M36A	X	-9.875	-9.875	0	%100
68	M36A	Z	-5.701	-5.701	0	%100
69	M37	X	-9.79	-9.79	0	%100
70	M37	Z	-5.652	-5.652	0	%100
71	M38	X	-9.79	-9.79	0	%100
72	M38	Z	-5.652	-5.652	0	%100
73	MP1A	X	-8.536	-8.536	0	%100
74	MP1A	Z	-4.928	-4.928	0	%100
75	MP2A	X	-8.536	-8.536	0	%100
76	MP2A	Z	-4.928	-4.928	0	%100
77	MP3A	X	-8.536	-8.536	0	%100
78	MP3A	Z	-4.928	-4.928	0	%100
79	MP4A	X	-8.536	-8.536	0	%100
80	MP4A	Z	-4.928	-4.928	0	%100
81	M51	X	-8.227	-8.227	0	%100
82	M51	Z	-4.75	-4.75	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	M5	X	-7.22	-7.22	0	%100
2	M5	Z	-1.251	-1.251	0	%100
3	M6	X	-.048	-.048	0	%100
4	M6	Z	-.084	-.084	0	%100
5	M7	X	-4.474	-4.474	0	%100
6	M7	Z	-7.75	-7.75	0	%100
7	M8	X	-7.22	-7.22	0	%100
8	M8	Z	-1.251	-1.251	0	%100
9	M9	X	-.048	-.048	0	%100
10	M9	Z	-.084	-.084	0	%100
11	M10	X	-4.474	-4.474	0	%100
12	M10	Z	-7.75	-7.75	0	%100
13	M11	X	-4.574	-4.574	0	%100
14	M11	Z	-7.923	-7.923	0	%100
15	M12	X	-.307	-.307	0	%100
16	M12	Z	-.532	-.532	0	%100
17	M13	X	-4.574	-4.574	0	%100
18	M13	Z	-7.923	-7.923	0	%100
19	M14	X	-.307	-.307	0	%100
20	M14	Z	-.532	-.532	0	%100
21	M15	X	-2.432	-2.432	0	%100
22	M15	Z	-4.212	-4.212	0	%100
23	M16	X	-2.626	-2.626	0	%100
24	M16	Z	-4.549	-4.549	0	%100
25	M17	X	-2.432	-2.432	0	%100
26	M17	Z	-4.212	-4.212	0	%100
27	M18	X	-2.626	-2.626	0	%100
28	M18	Z	-4.549	-4.549	0	%100
29	M19	X	-2.432	-2.432	0	%100
30	M19	Z	-4.212	-4.212	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
31	M20	X	-2.432	-2.432	0	%100
32	M20	Z	-4.212	-4.212	0	%100
33	M21	X	-2.432	-2.432	0	%100
34	M21	Z	-4.212	-4.212	0	%100
35	M22	X	-3.616	-3.616	0	%100
36	M22	Z	-6.263	-6.263	0	%100
37	M23	X	-3.616	-3.616	0	%100
38	M23	Z	-6.263	-6.263	0	%100
39	M24	X	-3.8	-3.8	0	%100
40	M24	Z	-6.581	-6.581	0	%100
41	M25	X	-2.578	-2.578	0	%100
42	M25	Z	-4.465	-4.465	0	%100
43	M26	X	-2.432	-2.432	0	%100
44	M26	Z	-4.212	-4.212	0	%100
45	M27	X	-3.842	-3.842	0	%100
46	M27	Z	-6.654	-6.654	0	%100
47	M28	X	-2.432	-2.432	0	%100
48	M28	Z	-4.212	-4.212	0	%100
49	M29	X	-3.735	-3.735	0	%100
50	M29	Z	-6.469	-6.469	0	%100
51	M30	X	-2.432	-2.432	0	%100
52	M30	Z	-4.212	-4.212	0	%100
53	M31	X	-2.432	-2.432	0	%100
54	M31	Z	-4.212	-4.212	0	%100
55	M32	X	-2.432	-2.432	0	%100
56	M32	Z	-4.212	-4.212	0	%100
57	M33	X	-3.616	-3.616	0	%100
58	M33	Z	-6.263	-6.263	0	%100
59	M34	X	-3.616	-3.616	0	%100
60	M34	Z	-6.263	-6.263	0	%100
61	M35	X	-3.8	-3.8	0	%100
62	M35	Z	-6.581	-6.581	0	%100
63	M36	X	-2.578	-2.578	0	%100
64	M36	Z	-4.465	-4.465	0	%100
65	M35A	X	-2.578	-2.578	0	%100
66	M35A	Z	-4.465	-4.465	0	%100
67	M36A	X	-2.578	-2.578	0	%100
68	M36A	Z	-4.465	-4.465	0	%100
69	M37	X	-2.432	-2.432	0	%100
70	M37	Z	-4.212	-4.212	0	%100
71	M38	X	-2.432	-2.432	0	%100
72	M38	Z	-4.212	-4.212	0	%100
73	MP1A	X	-4.928	-4.928	0	%100
74	MP1A	Z	-8.536	-8.536	0	%100
75	MP2A	X	-4.928	-4.928	0	%100
76	MP2A	Z	-8.536	-8.536	0	%100
77	MP3A	X	-4.928	-4.928	0	%100
78	MP3A	Z	-8.536	-8.536	0	%100
79	MP4A	X	-4.928	-4.928	0	%100
80	MP4A	Z	-8.536	-8.536	0	%100
81	M51	X	-2.809	-2.809	0	%100
82	M51	Z	-4.866	-4.866	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	M5	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.%]
2	M5	Z	- .909	- .909	0 %100
3	M6	X	0	0	0 %100
4	M6	Z	- .909	- .909	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	-4.868	-4.868	0 %100
7	M8	X	0	0	0 %100
8	M8	Z	- .909	- .909	0 %100
9	M9	X	0	0	0 %100
10	M9	Z	- .909	- .909	0 %100
11	M10	X	0	0	0 %100
12	M10	Z	-4.868	-4.868	0 %100
13	M11	X	0	0	0 %100
14	M11	Z	-2.082	-2.082	0 %100
15	M12	X	0	0	0 %100
16	M12	Z	-2.082	-2.082	0 %100
17	M13	X	0	0	0 %100
18	M13	Z	-2.082	-2.082	0 %100
19	M14	X	0	0	0 %100
20	M14	Z	-2.082	-2.082	0 %100
21	M15	X	0	0	0 %100
22	M15	Z	-1.869	-1.869	0 %100
23	M16	X	0	0	0 %100
24	M16	Z	-2.919	-2.919	0 %100
25	M17	X	0	0	0 %100
26	M17	Z	-1.869	-1.869	0 %100
27	M18	X	0	0	0 %100
28	M18	Z	-2.919	-2.919	0 %100
29	M19	X	0	0	0 %100
30	M19	Z	-1.869	-1.869	0 %100
31	M20	X	0	0	0 %100
32	M20	Z	-1.869	-1.869	0 %100
33	M21	X	0	0	0 %100
34	M21	Z	-1.869	-1.869	0 %100
35	M22	X	0	0	0 %100
36	M22	Z	-3.312	-3.312	0 %100
37	M23	X	0	0	0 %100
38	M23	Z	-3.312	-3.312	0 %100
39	M24	X	0	0	0 %100
40	M24	Z	-3.253	-3.253	0 %100
41	M25	X	0	0	0 %100
42	M25	Z	-1.94	-1.94	0 %100
43	M26	X	0	0	0 %100
44	M26	Z	-1.869	-1.869	0 %100
45	M27	X	0	0	0 %100
46	M27	Z	-2.919	-2.919	0 %100
47	M28	X	0	0	0 %100
48	M28	Z	-1.869	-1.869	0 %100
49	M29	X	0	0	0 %100
50	M29	Z	-2.748	-2.748	0 %100
51	M30	X	0	0	0 %100
52	M30	Z	-1.869	-1.869	0 %100
53	M31	X	0	0	0 %100
54	M31	Z	-1.869	-1.869	0 %100
55	M32	X	0	0	0 %100
56	M32	Z	-1.869	-1.869	0 %100
57	M33	X	0	0	0 %100
58	M33	Z	-3.312	-3.312	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
59	M34	X	0	0	0	%100
60	M34	Z	-3.312	-3.312	0	%100
61	M35	X	0	0	0	%100
62	M35	Z	-3.253	-3.253	0	%100
63	M36	X	0	0	0	%100
64	M36	Z	-1.94	-1.94	0	%100
65	M35A	X	0	0	0	%100
66	M35A	Z	-1.94	-1.94	0	%100
67	M36A	X	0	0	0	%100
68	M36A	Z	-1.94	-1.94	0	%100
69	M37	X	0	0	0	%100
70	M37	Z	-1.869	-1.869	0	%100
71	M38	X	0	0	0	%100
72	M38	Z	-1.869	-1.869	0	%100
73	MP1A	X	0	0	0	%100
74	MP1A	Z	-4.086	-4.086	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-4.086	-4.086	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-4.086	-4.086	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-4.086	-4.086	0	%100
81	M51	X	0	0	0	%100
82	M51	Z	-.436	-.436	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	M5	X	.058	.058	0	%100
2	M5	Z	-.1	-.1	0	%100
3	M6	X	.86	.86	0	%100
4	M6	Z	-1.489	-1.489	0	%100
5	M7	X	1.826	1.826	0	%100
6	M7	Z	-3.162	-3.162	0	%100
7	M8	X	.058	.058	0	%100
8	M8	Z	-.1	-.1	0	%100
9	M9	X	.86	.86	0	%100
10	M9	Z	-1.489	-1.489	0	%100
11	M10	X	1.826	1.826	0	%100
12	M10	Z	-3.162	-3.162	0	%100
13	M11	X	.132	.132	0	%100
14	M11	Z	-.229	-.229	0	%100
15	M12	X	1.97	1.97	0	%100
16	M12	Z	-3.412	-3.412	0	%100
17	M13	X	.132	.132	0	%100
18	M13	Z	-.229	-.229	0	%100
19	M14	X	1.97	1.97	0	%100
20	M14	Z	-3.412	-3.412	0	%100
21	M15	X	1.228	1.228	0	%100
22	M15	Z	-2.128	-2.128	0	%100
23	M16	X	1.738	1.738	0	%100
24	M16	Z	-3.01	-3.01	0	%100
25	M17	X	1.228	1.228	0	%100
26	M17	Z	-2.128	-2.128	0	%100
27	M18	X	1.738	1.738	0	%100
28	M18	Z	-3.01	-3.01	0	%100
29	M19	X	1.228	1.228	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
30	M19	Z	-2.128	-2.128	0 %100
31	M20	X	1.228	1.228	0 %100
32	M20	Z	-2.128	-2.128	0 %100
33	M21	X	1.228	1.228	0 %100
34	M21	Z	-2.128	-2.128	0 %100
35	M22	X	1.656	1.656	0 %100
36	M22	Z	-2.868	-2.868	0 %100
37	M23	X	1.656	1.656	0 %100
38	M23	Z	-2.868	-2.868	0 %100
39	M24	X	1.626	1.626	0 %100
40	M24	Z	-2.817	-2.817	0 %100
41	M25	X	1.255	1.255	0 %100
42	M25	Z	-2.174	-2.174	0 %100
43	M26	X	1.228	1.228	0 %100
44	M26	Z	-2.128	-2.128	0 %100
45	M27	X	1.188	1.188	0 %100
46	M27	Z	-2.057	-2.057	0 %100
47	M28	X	1.228	1.228	0 %100
48	M28	Z	-2.128	-2.128	0 %100
49	M29	X	1.065	1.065	0 %100
50	M29	Z	-1.845	-1.845	0 %100
51	M30	X	1.228	1.228	0 %100
52	M30	Z	-2.128	-2.128	0 %100
53	M31	X	1.228	1.228	0 %100
54	M31	Z	-2.128	-2.128	0 %100
55	M32	X	1.228	1.228	0 %100
56	M32	Z	-2.128	-2.128	0 %100
57	M33	X	1.656	1.656	0 %100
58	M33	Z	-2.868	-2.868	0 %100
59	M34	X	1.656	1.656	0 %100
60	M34	Z	-2.868	-2.868	0 %100
61	M35	X	1.626	1.626	0 %100
62	M35	Z	-2.817	-2.817	0 %100
63	M36	X	1.255	1.255	0 %100
64	M36	Z	-2.174	-2.174	0 %100
65	M35A	X	1.255	1.255	0 %100
66	M35A	Z	-2.174	-2.174	0 %100
67	M36A	X	1.255	1.255	0 %100
68	M36A	Z	-2.174	-2.174	0 %100
69	M37	X	1.228	1.228	0 %100
70	M37	Z	-2.128	-2.128	0 %100
71	M38	X	1.228	1.228	0 %100
72	M38	Z	-2.128	-2.128	0 %100
73	MP1A	X	2.043	2.043	0 %100
74	MP1A	Z	-3.539	-3.539	0 %100
75	MP2A	X	2.043	2.043	0 %100
76	MP2A	Z	-3.539	-3.539	0 %100
77	MP3A	X	2.043	2.043	0 %100
78	MP3A	Z	-3.539	-3.539	0 %100
79	MP4A	X	2.043	2.043	0 %100
80	MP4A	Z	-3.539	-3.539	0 %100
81	M51	X	.074	.074	0 %100
82	M51	Z	-.129	-.129	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, %]



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M5	X	.115	.115	0 %100
2	M5	Z	-.067	-.067	0 %100
3	M6	X	1.505	1.505	0 %100
4	M6	Z	-.869	-.869	0 %100
5	M7	X	1.054	1.054	0 %100
6	M7	Z	-.609	-.609	0 %100
7	M8	X	.115	.115	0 %100
8	M8	Z	-.067	-.067	0 %100
9	M9	X	1.505	1.505	0 %100
10	M9	Z	-.869	-.869	0 %100
11	M10	X	1.054	1.054	0 %100
12	M10	Z	-.609	-.609	0 %100
13	M11	X	.264	.264	0 %100
14	M11	Z	-.152	-.152	0 %100
15	M12	X	3.447	3.447	0 %100
16	M12	Z	-1.99	-1.99	0 %100
17	M13	X	.264	.264	0 %100
18	M13	Z	-.152	-.152	0 %100
19	M14	X	3.447	3.447	0 %100
20	M14	Z	-1.99	-1.99	0 %100
21	M15	X	3.146	3.146	0 %100
22	M15	Z	-1.817	-1.817	0 %100
23	M16	X	3.02	3.02	0 %100
24	M16	Z	-1.744	-1.744	0 %100
25	M17	X	3.146	3.146	0 %100
26	M17	Z	-1.817	-1.817	0 %100
27	M18	X	3.02	3.02	0 %100
28	M18	Z	-1.744	-1.744	0 %100
29	M19	X	3.146	3.146	0 %100
30	M19	Z	-1.817	-1.817	0 %100
31	M20	X	3.146	3.146	0 %100
32	M20	Z	-1.817	-1.817	0 %100
33	M21	X	3.146	3.146	0 %100
34	M21	Z	-1.817	-1.817	0 %100
35	M22	X	2.868	2.868	0 %100
36	M22	Z	-1.656	-1.656	0 %100
37	M23	X	2.868	2.868	0 %100
38	M23	Z	-1.656	-1.656	0 %100
39	M24	X	2.817	2.817	0 %100
40	M24	Z	-1.626	-1.626	0 %100
41	M25	X	3.162	3.162	0 %100
42	M25	Z	-1.825	-1.825	0 %100
43	M26	X	3.146	3.146	0 %100
44	M26	Z	-1.817	-1.817	0 %100
45	M27	X	2.068	2.068	0 %100
46	M27	Z	-1.194	-1.194	0 %100
47	M28	X	3.146	3.146	0 %100
48	M28	Z	-1.817	-1.817	0 %100
49	M29	X	1.857	1.857	0 %100
50	M29	Z	-1.072	-1.072	0 %100
51	M30	X	3.146	3.146	0 %100
52	M30	Z	-1.817	-1.817	0 %100
53	M31	X	3.146	3.146	0 %100
54	M31	Z	-1.817	-1.817	0 %100
55	M32	X	3.146	3.146	0 %100
56	M32	Z	-1.817	-1.817	0 %100
57	M33	X	2.868	2.868	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.%]
58	M33	Z	-1.656	-1.656	0	%100
59	M34	X	2.868	2.868	0	%100
60	M34	Z	-1.656	-1.656	0	%100
61	M35	X	2.817	2.817	0	%100
62	M35	Z	-1.626	-1.626	0	%100
63	M36	X	3.162	3.162	0	%100
64	M36	Z	-1.825	-1.825	0	%100
65	M35A	X	3.162	3.162	0	%100
66	M35A	Z	-1.825	-1.825	0	%100
67	M36A	X	3.162	3.162	0	%100
68	M36A	Z	-1.825	-1.825	0	%100
69	M37	X	3.146	3.146	0	%100
70	M37	Z	-1.817	-1.817	0	%100
71	M38	X	3.146	3.146	0	%100
72	M38	Z	-1.817	-1.817	0	%100
73	MP1A	X	3.539	3.539	0	%100
74	MP1A	Z	-2.043	-2.043	0	%100
75	MP2A	X	3.539	3.539	0	%100
76	MP2A	Z	-2.043	-2.043	0	%100
77	MP3A	X	3.539	3.539	0	%100
78	MP3A	Z	-2.043	-2.043	0	%100
79	MP4A	X	3.539	3.539	0	%100
80	MP4A	Z	-2.043	-2.043	0	%100
81	M51	X	1.529	1.529	0	%100
82	M51	Z	-.883	-.883	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	M5	X	.944	.944	0	%100
2	M5	Z	0	0	0	%100
3	M6	X	.944	.944	0	%100
4	M6	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	.944	.944	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	.944	.944	0	%100
10	M9	Z	0	0	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M11	X	2.163	2.163	0	%100
14	M11	Z	0	0	0	%100
15	M12	X	2.163	2.163	0	%100
16	M12	Z	0	0	0	%100
17	M13	X	2.163	2.163	0	%100
18	M13	Z	0	0	0	%100
19	M14	X	2.163	2.163	0	%100
20	M14	Z	0	0	0	%100
21	M15	X	4.221	4.221	0	%100
22	M15	Z	0	0	0	%100
23	M16	X	2.943	2.943	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	4.221	4.221	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	2.943	2.943	0	%100
28	M18	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
29	M19	X	4.221	4.221	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	4.221	4.221	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	4.221	4.221	0	%100
34	M21	Z	0	0	0	%100
35	M22	X	3.312	3.312	0	%100
36	M22	Z	0	0	0	%100
37	M23	X	3.312	3.312	0	%100
38	M23	Z	0	0	0	%100
39	M24	X	3.253	3.253	0	%100
40	M24	Z	0	0	0	%100
41	M25	X	4.221	4.221	0	%100
42	M25	Z	0	0	0	%100
43	M26	X	4.221	4.221	0	%100
44	M26	Z	0	0	0	%100
45	M27	X	2.943	2.943	0	%100
46	M27	Z	0	0	0	%100
47	M28	X	4.221	4.221	0	%100
48	M28	Z	0	0	0	%100
49	M29	X	2.775	2.775	0	%100
50	M29	Z	0	0	0	%100
51	M30	X	4.221	4.221	0	%100
52	M30	Z	0	0	0	%100
53	M31	X	4.221	4.221	0	%100
54	M31	Z	0	0	0	%100
55	M32	X	4.221	4.221	0	%100
56	M32	Z	0	0	0	%100
57	M33	X	3.312	3.312	0	%100
58	M33	Z	0	0	0	%100
59	M34	X	3.312	3.312	0	%100
60	M34	Z	0	0	0	%100
61	M35	X	3.253	3.253	0	%100
62	M35	Z	0	0	0	%100
63	M36	X	4.221	4.221	0	%100
64	M36	Z	0	0	0	%100
65	M35A	X	4.221	4.221	0	%100
66	M35A	Z	0	0	0	%100
67	M36A	X	4.221	4.221	0	%100
68	M36A	Z	0	0	0	%100
69	M37	X	4.221	4.221	0	%100
70	M37	Z	0	0	0	%100
71	M38	X	4.221	4.221	0	%100
72	M38	Z	0	0	0	%100
73	MP1A	X	4.086	4.086	0	%100
74	MP1A	Z	0	0	0	%100
75	MP2A	X	4.086	4.086	0	%100
76	MP2A	Z	0	0	0	%100
77	MP3A	X	4.086	4.086	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	4.086	4.086	0	%100
80	MP4A	Z	0	0	0	%100
81	M51	X	3.669	3.669	0	%100
82	M51	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.%]
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Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M5	X	1.505	1.505	0 %100
2	M5	Z	.869	.869	0 %100
3	M6	X	.115	.115	0 %100
4	M6	Z	.067	.067	0 %100
5	M7	X	1.054	1.054	0 %100
6	M7	Z	.609	.609	0 %100
7	M8	X	1.505	1.505	0 %100
8	M8	Z	.869	.869	0 %100
9	M9	X	.115	.115	0 %100
10	M9	Z	.067	.067	0 %100
11	M10	X	1.054	1.054	0 %100
12	M10	Z	.609	.609	0 %100
13	M11	X	3.447	3.447	0 %100
14	M11	Z	1.99	1.99	0 %100
15	M12	X	.264	.264	0 %100
16	M12	Z	.152	.152	0 %100
17	M13	X	3.447	3.447	0 %100
18	M13	Z	1.99	1.99	0 %100
19	M14	X	.264	.264	0 %100
20	M14	Z	.152	.152	0 %100
21	M15	X	3.146	3.146	0 %100
22	M15	Z	1.817	1.817	0 %100
23	M16	X	2.068	2.068	0 %100
24	M16	Z	1.194	1.194	0 %100
25	M17	X	3.146	3.146	0 %100
26	M17	Z	1.817	1.817	0 %100
27	M18	X	2.068	2.068	0 %100
28	M18	Z	1.194	1.194	0 %100
29	M19	X	3.146	3.146	0 %100
30	M19	Z	1.817	1.817	0 %100
31	M20	X	3.146	3.146	0 %100
32	M20	Z	1.817	1.817	0 %100
33	M21	X	3.146	3.146	0 %100
34	M21	Z	1.817	1.817	0 %100
35	M22	X	2.868	2.868	0 %100
36	M22	Z	1.656	1.656	0 %100
37	M23	X	2.868	2.868	0 %100
38	M23	Z	1.656	1.656	0 %100
39	M24	X	2.817	2.817	0 %100
40	M24	Z	1.626	1.626	0 %100
41	M25	X	3.162	3.162	0 %100
42	M25	Z	1.825	1.825	0 %100
43	M26	X	3.146	3.146	0 %100
44	M26	Z	1.817	1.817	0 %100
45	M27	X	3.02	3.02	0 %100
46	M27	Z	1.744	1.744	0 %100
47	M28	X	3.146	3.146	0 %100
48	M28	Z	1.817	1.817	0 %100
49	M29	X	2.938	2.938	0 %100
50	M29	Z	1.696	1.696	0 %100
51	M30	X	3.146	3.146	0 %100
52	M30	Z	1.817	1.817	0 %100
53	M31	X	3.146	3.146	0 %100
54	M31	Z	1.817	1.817	0 %100
55	M32	X	3.146	3.146	0 %100
56	M32	Z	1.817	1.817	0 %100
57	M33	X	2.868	2.868	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.%,]
58	M33	Z	1.656	1.656	0	%100
59	M34	X	2.868	2.868	0	%100
60	M34	Z	1.656	1.656	0	%100
61	M35	X	2.817	2.817	0	%100
62	M35	Z	1.626	1.626	0	%100
63	M36	X	3.162	3.162	0	%100
64	M36	Z	1.825	1.825	0	%100
65	M35A	X	3.162	3.162	0	%100
66	M35A	Z	1.825	1.825	0	%100
67	M36A	X	3.162	3.162	0	%100
68	M36A	Z	1.825	1.825	0	%100
69	M37	X	3.146	3.146	0	%100
70	M37	Z	1.817	1.817	0	%100
71	M38	X	3.146	3.146	0	%100
72	M38	Z	1.817	1.817	0	%100
73	MP1A	X	3.539	3.539	0	%100
74	MP1A	Z	2.043	2.043	0	%100
75	MP2A	X	3.539	3.539	0	%100
76	MP2A	Z	2.043	2.043	0	%100
77	MP3A	X	3.539	3.539	0	%100
78	MP3A	Z	2.043	2.043	0	%100
79	MP4A	X	3.539	3.539	0	%100
80	MP4A	Z	2.043	2.043	0	%100
81	M51	X	3.426	3.426	0	%100
82	M51	Z	1.978	1.978	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	M5	X	.86	.86	0	%100
2	M5	Z	1.489	1.489	0	%100
3	M6	X	.058	.058	0	%100
4	M6	Z	.1	.1	0	%100
5	M7	X	1.826	1.826	0	%100
6	M7	Z	3.162	3.162	0	%100
7	M8	X	.86	.86	0	%100
8	M8	Z	1.489	1.489	0	%100
9	M9	X	.058	.058	0	%100
10	M9	Z	.1	.1	0	%100
11	M10	X	1.826	1.826	0	%100
12	M10	Z	3.162	3.162	0	%100
13	M11	X	1.97	1.97	0	%100
14	M11	Z	3.412	3.412	0	%100
15	M12	X	.132	.132	0	%100
16	M12	Z	.229	.229	0	%100
17	M13	X	1.97	1.97	0	%100
18	M13	Z	3.412	3.412	0	%100
19	M14	X	.132	.132	0	%100
20	M14	Z	.229	.229	0	%100
21	M15	X	1.228	1.228	0	%100
22	M15	Z	2.128	2.128	0	%100
23	M16	X	1.188	1.188	0	%100
24	M16	Z	2.057	2.057	0	%100
25	M17	X	1.228	1.228	0	%100
26	M17	Z	2.128	2.128	0	%100
27	M18	X	1.188	1.188	0	%100
28	M18	Z	2.057	2.057	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.%]
29	M19	X	1.228	1.228	0	%100
30	M19	Z	2.128	2.128	0	%100
31	M20	X	1.228	1.228	0	%100
32	M20	Z	2.128	2.128	0	%100
33	M21	X	1.228	1.228	0	%100
34	M21	Z	2.128	2.128	0	%100
35	M22	X	1.656	1.656	0	%100
36	M22	Z	2.868	2.868	0	%100
37	M23	X	1.656	1.656	0	%100
38	M23	Z	2.868	2.868	0	%100
39	M24	X	1.626	1.626	0	%100
40	M24	Z	2.817	2.817	0	%100
41	M25	X	1.255	1.255	0	%100
42	M25	Z	2.174	2.174	0	%100
43	M26	X	1.228	1.228	0	%100
44	M26	Z	2.128	2.128	0	%100
45	M27	X	1.738	1.738	0	%100
46	M27	Z	3.01	3.01	0	%100
47	M28	X	1.228	1.228	0	%100
48	M28	Z	2.128	2.128	0	%100
49	M29	X	1.69	1.69	0	%100
50	M29	Z	2.926	2.926	0	%100
51	M30	X	1.228	1.228	0	%100
52	M30	Z	2.128	2.128	0	%100
53	M31	X	1.228	1.228	0	%100
54	M31	Z	2.128	2.128	0	%100
55	M32	X	1.228	1.228	0	%100
56	M32	Z	2.128	2.128	0	%100
57	M33	X	1.656	1.656	0	%100
58	M33	Z	2.868	2.868	0	%100
59	M34	X	1.656	1.656	0	%100
60	M34	Z	2.868	2.868	0	%100
61	M35	X	1.626	1.626	0	%100
62	M35	Z	2.817	2.817	0	%100
63	M36	X	1.255	1.255	0	%100
64	M36	Z	2.174	2.174	0	%100
65	M35A	X	1.255	1.255	0	%100
66	M35A	Z	2.174	2.174	0	%100
67	M36A	X	1.255	1.255	0	%100
68	M36A	Z	2.174	2.174	0	%100
69	M37	X	1.228	1.228	0	%100
70	M37	Z	2.128	2.128	0	%100
71	M38	X	1.228	1.228	0	%100
72	M38	Z	2.128	2.128	0	%100
73	MP1A	X	2.043	2.043	0	%100
74	MP1A	Z	3.539	3.539	0	%100
75	MP2A	X	2.043	2.043	0	%100
76	MP2A	Z	3.539	3.539	0	%100
77	MP3A	X	2.043	2.043	0	%100
78	MP3A	Z	3.539	3.539	0	%100
79	MP4A	X	2.043	2.043	0	%100
80	MP4A	Z	3.539	3.539	0	%100
81	M51	X	1.17	1.17	0	%100
82	M51	Z	2.027	2.027	0	%100

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



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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.%]
1	M5	X	0	0	0	%100
2	M5	Z	.909	.909	0	%100
3	M6	X	0	0	0	%100
4	M6	Z	.909	.909	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	4.868	4.868	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	.909	.909	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	.909	.909	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	4.868	4.868	0	%100
13	M11	X	0	0	0	%100
14	M11	Z	2.082	2.082	0	%100
15	M12	X	0	0	0	%100
16	M12	Z	2.082	2.082	0	%100
17	M13	X	0	0	0	%100
18	M13	Z	2.082	2.082	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	2.082	2.082	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	1.869	1.869	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	2.919	2.919	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	1.869	1.869	0	%100
27	M18	X	0	0	0	%100
28	M18	Z	2.919	2.919	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	1.869	1.869	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	1.869	1.869	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	1.869	1.869	0	%100
35	M22	X	0	0	0	%100
36	M22	Z	3.312	3.312	0	%100
37	M23	X	0	0	0	%100
38	M23	Z	3.312	3.312	0	%100
39	M24	X	0	0	0	%100
40	M24	Z	3.253	3.253	0	%100
41	M25	X	0	0	0	%100
42	M25	Z	1.94	1.94	0	%100
43	M26	X	0	0	0	%100
44	M26	Z	1.869	1.869	0	%100
45	M27	X	0	0	0	%100
46	M27	Z	2.919	2.919	0	%100
47	M28	X	0	0	0	%100
48	M28	Z	1.869	1.869	0	%100
49	M29	X	0	0	0	%100
50	M29	Z	2.748	2.748	0	%100
51	M30	X	0	0	0	%100
52	M30	Z	1.869	1.869	0	%100
53	M31	X	0	0	0	%100
54	M31	Z	1.869	1.869	0	%100
55	M32	X	0	0	0	%100
56	M32	Z	1.869	1.869	0	%100
57	M33	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M33	Z	3.312	3.312	0 %100
59	M34	X	0	0	0 %100
60	M34	Z	3.312	3.312	0 %100
61	M35	X	0	0	0 %100
62	M35	Z	3.253	3.253	0 %100
63	M36	X	0	0	0 %100
64	M36	Z	1.94	1.94	0 %100
65	M35A	X	0	0	0 %100
66	M35A	Z	1.94	1.94	0 %100
67	M36A	X	0	0	0 %100
68	M36A	Z	1.94	1.94	0 %100
69	M37	X	0	0	0 %100
70	M37	Z	1.869	1.869	0 %100
71	M38	X	0	0	0 %100
72	M38	Z	1.869	1.869	0 %100
73	MP1A	X	0	0	0 %100
74	MP1A	Z	4.086	4.086	0 %100
75	MP2A	X	0	0	0 %100
76	MP2A	Z	4.086	4.086	0 %100
77	MP3A	X	0	0	0 %100
78	MP3A	Z	4.086	4.086	0 %100
79	MP4A	X	0	0	0 %100
80	MP4A	Z	4.086	4.086	0 %100
81	M51	X	0	0	0 %100
82	M51	Z	.436	.436	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	M5	X	-.058	-.058	0 %100
2	M5	Z	.1	.1	0 %100
3	M6	X	-.86	-.86	0 %100
4	M6	Z	1.489	1.489	0 %100
5	M7	X	-1.826	-1.826	0 %100
6	M7	Z	3.162	3.162	0 %100
7	M8	X	-.058	-.058	0 %100
8	M8	Z	.1	.1	0 %100
9	M9	X	-.86	-.86	0 %100
10	M9	Z	1.489	1.489	0 %100
11	M10	X	-1.826	-1.826	0 %100
12	M10	Z	3.162	3.162	0 %100
13	M11	X	-.132	-.132	0 %100
14	M11	Z	.229	.229	0 %100
15	M12	X	-1.97	-1.97	0 %100
16	M12	Z	3.412	3.412	0 %100
17	M13	X	-.132	-.132	0 %100
18	M13	Z	.229	.229	0 %100
19	M14	X	-1.97	-1.97	0 %100
20	M14	Z	3.412	3.412	0 %100
21	M15	X	-1.228	-1.228	0 %100
22	M15	Z	2.128	2.128	0 %100
23	M16	X	-1.738	-1.738	0 %100
24	M16	Z	3.01	3.01	0 %100
25	M17	X	-1.228	-1.228	0 %100
26	M17	Z	2.128	2.128	0 %100
27	M18	X	-1.738	-1.738	0 %100
28	M18	Z	3.01	3.01	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
29	M19	X	-1.228	-1.228	0 %100
30	M19	Z	2.128	2.128	0 %100
31	M20	X	-1.228	-1.228	0 %100
32	M20	Z	2.128	2.128	0 %100
33	M21	X	-1.228	-1.228	0 %100
34	M21	Z	2.128	2.128	0 %100
35	M22	X	-1.656	-1.656	0 %100
36	M22	Z	2.868	2.868	0 %100
37	M23	X	-1.656	-1.656	0 %100
38	M23	Z	2.868	2.868	0 %100
39	M24	X	-1.626	-1.626	0 %100
40	M24	Z	2.817	2.817	0 %100
41	M25	X	-1.255	-1.255	0 %100
42	M25	Z	2.174	2.174	0 %100
43	M26	X	-1.228	-1.228	0 %100
44	M26	Z	2.128	2.128	0 %100
45	M27	X	-1.188	-1.188	0 %100
46	M27	Z	2.057	2.057	0 %100
47	M28	X	-1.228	-1.228	0 %100
48	M28	Z	2.128	2.128	0 %100
49	M29	X	-1.065	-1.065	0 %100
50	M29	Z	1.845	1.845	0 %100
51	M30	X	-1.228	-1.228	0 %100
52	M30	Z	2.128	2.128	0 %100
53	M31	X	-1.228	-1.228	0 %100
54	M31	Z	2.128	2.128	0 %100
55	M32	X	-1.228	-1.228	0 %100
56	M32	Z	2.128	2.128	0 %100
57	M33	X	-1.656	-1.656	0 %100
58	M33	Z	2.868	2.868	0 %100
59	M34	X	-1.656	-1.656	0 %100
60	M34	Z	2.868	2.868	0 %100
61	M35	X	-1.626	-1.626	0 %100
62	M35	Z	2.817	2.817	0 %100
63	M36	X	-1.255	-1.255	0 %100
64	M36	Z	2.174	2.174	0 %100
65	M35A	X	-1.255	-1.255	0 %100
66	M35A	Z	2.174	2.174	0 %100
67	M36A	X	-1.255	-1.255	0 %100
68	M36A	Z	2.174	2.174	0 %100
69	M37	X	-1.228	-1.228	0 %100
70	M37	Z	2.128	2.128	0 %100
71	M38	X	-1.228	-1.228	0 %100
72	M38	Z	2.128	2.128	0 %100
73	MP1A	X	-2.043	-2.043	0 %100
74	MP1A	Z	3.539	3.539	0 %100
75	MP2A	X	-2.043	-2.043	0 %100
76	MP2A	Z	3.539	3.539	0 %100
77	MP3A	X	-2.043	-2.043	0 %100
78	MP3A	Z	3.539	3.539	0 %100
79	MP4A	X	-2.043	-2.043	0 %100
80	MP4A	Z	3.539	3.539	0 %100
81	M51	X	-.074	-.074	0 %100
82	M51	Z	.129	.129	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.%]
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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.%]
1	M5	X	-.115	-.115	0	%100
2	M5	Z	.067	.067	0	%100
3	M6	X	-1.505	-1.505	0	%100
4	M6	Z	.869	.869	0	%100
5	M7	X	-1.054	-1.054	0	%100
6	M7	Z	.609	.609	0	%100
7	M8	X	-.115	-.115	0	%100
8	M8	Z	.067	.067	0	%100
9	M9	X	-1.505	-1.505	0	%100
10	M9	Z	.869	.869	0	%100
11	M10	X	-1.054	-1.054	0	%100
12	M10	Z	.609	.609	0	%100
13	M11	X	-.264	-.264	0	%100
14	M11	Z	.152	.152	0	%100
15	M12	X	-3.447	-3.447	0	%100
16	M12	Z	1.99	1.99	0	%100
17	M13	X	-.264	-.264	0	%100
18	M13	Z	.152	.152	0	%100
19	M14	X	-3.447	-3.447	0	%100
20	M14	Z	1.99	1.99	0	%100
21	M15	X	-3.146	-3.146	0	%100
22	M15	Z	1.817	1.817	0	%100
23	M16	X	-3.02	-3.02	0	%100
24	M16	Z	1.744	1.744	0	%100
25	M17	X	-3.146	-3.146	0	%100
26	M17	Z	1.817	1.817	0	%100
27	M18	X	-3.02	-3.02	0	%100
28	M18	Z	1.744	1.744	0	%100
29	M19	X	-3.146	-3.146	0	%100
30	M19	Z	1.817	1.817	0	%100
31	M20	X	-3.146	-3.146	0	%100
32	M20	Z	1.817	1.817	0	%100
33	M21	X	-3.146	-3.146	0	%100
34	M21	Z	1.817	1.817	0	%100
35	M22	X	-2.868	-2.868	0	%100
36	M22	Z	1.656	1.656	0	%100
37	M23	X	-2.868	-2.868	0	%100
38	M23	Z	1.656	1.656	0	%100
39	M24	X	-2.817	-2.817	0	%100
40	M24	Z	1.626	1.626	0	%100
41	M25	X	-3.162	-3.162	0	%100
42	M25	Z	1.825	1.825	0	%100
43	M26	X	-3.146	-3.146	0	%100
44	M26	Z	1.817	1.817	0	%100
45	M27	X	-2.068	-2.068	0	%100
46	M27	Z	1.194	1.194	0	%100
47	M28	X	-3.146	-3.146	0	%100
48	M28	Z	1.817	1.817	0	%100
49	M29	X	-1.857	-1.857	0	%100
50	M29	Z	1.072	1.072	0	%100
51	M30	X	-3.146	-3.146	0	%100
52	M30	Z	1.817	1.817	0	%100
53	M31	X	-3.146	-3.146	0	%100
54	M31	Z	1.817	1.817	0	%100
55	M32	X	-3.146	-3.146	0	%100
56	M32	Z	1.817	1.817	0	%100
57	M33	X	-2.868	-2.868	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.%]
58	M33	Z	1.656	1.656	0	%100
59	M34	X	-2.868	-2.868	0	%100
60	M34	Z	1.656	1.656	0	%100
61	M35	X	-2.817	-2.817	0	%100
62	M35	Z	1.626	1.626	0	%100
63	M36	X	-3.162	-3.162	0	%100
64	M36	Z	1.825	1.825	0	%100
65	M35A	X	-3.162	-3.162	0	%100
66	M35A	Z	1.825	1.825	0	%100
67	M36A	X	-3.162	-3.162	0	%100
68	M36A	Z	1.825	1.825	0	%100
69	M37	X	-3.146	-3.146	0	%100
70	M37	Z	1.817	1.817	0	%100
71	M38	X	-3.146	-3.146	0	%100
72	M38	Z	1.817	1.817	0	%100
73	MP1A	X	-3.539	-3.539	0	%100
74	MP1A	Z	2.043	2.043	0	%100
75	MP2A	X	-3.539	-3.539	0	%100
76	MP2A	Z	2.043	2.043	0	%100
77	MP3A	X	-3.539	-3.539	0	%100
78	MP3A	Z	2.043	2.043	0	%100
79	MP4A	X	-3.539	-3.539	0	%100
80	MP4A	Z	2.043	2.043	0	%100
81	M51	X	-1.529	-1.529	0	%100
82	M51	Z	.883	.883	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	M5	X	-.944	-.944	0	%100
2	M5	Z	0	0	0	%100
3	M6	X	-.944	-.944	0	%100
4	M6	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	0	0	0	%100
7	M8	X	-.944	-.944	0	%100
8	M8	Z	0	0	0	%100
9	M9	X	-.944	-.944	0	%100
10	M9	Z	0	0	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	0	0	0	%100
13	M11	X	-2.163	-2.163	0	%100
14	M11	Z	0	0	0	%100
15	M12	X	-2.163	-2.163	0	%100
16	M12	Z	0	0	0	%100
17	M13	X	-2.163	-2.163	0	%100
18	M13	Z	0	0	0	%100
19	M14	X	-2.163	-2.163	0	%100
20	M14	Z	0	0	0	%100
21	M15	X	-4.221	-4.221	0	%100
22	M15	Z	0	0	0	%100
23	M16	X	-2.943	-2.943	0	%100
24	M16	Z	0	0	0	%100
25	M17	X	-4.221	-4.221	0	%100
26	M17	Z	0	0	0	%100
27	M18	X	-2.943	-2.943	0	%100
28	M18	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M5	X	-1.505	-1.505	0	%100
2	M5	Z	-.869	-.869	0	%100
3	M6	X	-.115	-.115	0	%100
4	M6	Z	-.067	-.067	0	%100
5	M7	X	-1.054	-1.054	0	%100
6	M7	Z	-.609	-.609	0	%100
7	M8	X	-1.505	-1.505	0	%100
8	M8	Z	-.869	-.869	0	%100
9	M9	X	-.115	-.115	0	%100
10	M9	Z	-.067	-.067	0	%100
11	M10	X	-1.054	-1.054	0	%100
12	M10	Z	-.609	-.609	0	%100
13	M11	X	-3.447	-3.447	0	%100
14	M11	Z	-1.99	-1.99	0	%100
15	M12	X	-.264	-.264	0	%100
16	M12	Z	-.152	-.152	0	%100
17	M13	X	-3.447	-3.447	0	%100
18	M13	Z	-1.99	-1.99	0	%100
19	M14	X	-.264	-.264	0	%100
20	M14	Z	-.152	-.152	0	%100
21	M15	X	-3.146	-3.146	0	%100
22	M15	Z	-1.817	-1.817	0	%100
23	M16	X	-2.068	-2.068	0	%100
24	M16	Z	-1.194	-1.194	0	%100
25	M17	X	-3.146	-3.146	0	%100
26	M17	Z	-1.817	-1.817	0	%100
27	M18	X	-2.068	-2.068	0	%100
28	M18	Z	-1.194	-1.194	0	%100
29	M19	X	-3.146	-3.146	0	%100
30	M19	Z	-1.817	-1.817	0	%100
31	M20	X	-3.146	-3.146	0	%100
32	M20	Z	-1.817	-1.817	0	%100
33	M21	X	-3.146	-3.146	0	%100
34	M21	Z	-1.817	-1.817	0	%100
35	M22	X	-2.868	-2.868	0	%100
36	M22	Z	-1.656	-1.656	0	%100
37	M23	X	-2.868	-2.868	0	%100
38	M23	Z	-1.656	-1.656	0	%100
39	M24	X	-2.817	-2.817	0	%100
40	M24	Z	-1.626	-1.626	0	%100
41	M25	X	-3.162	-3.162	0	%100
42	M25	Z	-1.825	-1.825	0	%100
43	M26	X	-3.146	-3.146	0	%100
44	M26	Z	-1.817	-1.817	0	%100
45	M27	X	-3.02	-3.02	0	%100
46	M27	Z	-1.744	-1.744	0	%100
47	M28	X	-3.146	-3.146	0	%100
48	M28	Z	-1.817	-1.817	0	%100
49	M29	X	-2.938	-2.938	0	%100
50	M29	Z	-1.696	-1.696	0	%100
51	M30	X	-3.146	-3.146	0	%100
52	M30	Z	-1.817	-1.817	0	%100
53	M31	X	-3.146	-3.146	0	%100
54	M31	Z	-1.817	-1.817	0	%100
55	M32	X	-3.146	-3.146	0	%100
56	M32	Z	-1.817	-1.817	0	%100
57	M33	X	-2.868	-2.868	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.%,]
58	M33	Z	-1.656	-1.656	0	%100
59	M34	X	-2.868	-2.868	0	%100
60	M34	Z	-1.656	-1.656	0	%100
61	M35	X	-2.817	-2.817	0	%100
62	M35	Z	-1.626	-1.626	0	%100
63	M36	X	-3.162	-3.162	0	%100
64	M36	Z	-1.825	-1.825	0	%100
65	M35A	X	-3.162	-3.162	0	%100
66	M35A	Z	-1.825	-1.825	0	%100
67	M36A	X	-3.162	-3.162	0	%100
68	M36A	Z	-1.825	-1.825	0	%100
69	M37	X	-3.146	-3.146	0	%100
70	M37	Z	-1.817	-1.817	0	%100
71	M38	X	-3.146	-3.146	0	%100
72	M38	Z	-1.817	-1.817	0	%100
73	MP1A	X	-3.539	-3.539	0	%100
74	MP1A	Z	-2.043	-2.043	0	%100
75	MP2A	X	-3.539	-3.539	0	%100
76	MP2A	Z	-2.043	-2.043	0	%100
77	MP3A	X	-3.539	-3.539	0	%100
78	MP3A	Z	-2.043	-2.043	0	%100
79	MP4A	X	-3.539	-3.539	0	%100
80	MP4A	Z	-2.043	-2.043	0	%100
81	M51	X	-3.426	-3.426	0	%100
82	M51	Z	-1.978	-1.978	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	M5	X	-.86	-.86	0	%100
2	M5	Z	-1.489	-1.489	0	%100
3	M6	X	-.058	-.058	0	%100
4	M6	Z	-.1	-.1	0	%100
5	M7	X	-1.826	-1.826	0	%100
6	M7	Z	-3.162	-3.162	0	%100
7	M8	X	-.86	-.86	0	%100
8	M8	Z	-1.489	-1.489	0	%100
9	M9	X	-.058	-.058	0	%100
10	M9	Z	-.1	-.1	0	%100
11	M10	X	-1.826	-1.826	0	%100
12	M10	Z	-3.162	-3.162	0	%100
13	M11	X	-1.97	-1.97	0	%100
14	M11	Z	-3.412	-3.412	0	%100
15	M12	X	-.132	-.132	0	%100
16	M12	Z	-.229	-.229	0	%100
17	M13	X	-1.97	-1.97	0	%100
18	M13	Z	-3.412	-3.412	0	%100
19	M14	X	-.132	-.132	0	%100
20	M14	Z	-.229	-.229	0	%100
21	M15	X	-1.228	-1.228	0	%100
22	M15	Z	-2.128	-2.128	0	%100
23	M16	X	-1.188	-1.188	0	%100
24	M16	Z	-2.057	-2.057	0	%100
25	M17	X	-1.228	-1.228	0	%100
26	M17	Z	-2.128	-2.128	0	%100
27	M18	X	-1.188	-1.188	0	%100
28	M18	Z	-2.057	-2.057	0	%100



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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.%]
29	M19	X	-1.228	-1.228	0 %100
30	M19	Z	-2.128	-2.128	0 %100
31	M20	X	-1.228	-1.228	0 %100
32	M20	Z	-2.128	-2.128	0 %100
33	M21	X	-1.228	-1.228	0 %100
34	M21	Z	-2.128	-2.128	0 %100
35	M22	X	-1.656	-1.656	0 %100
36	M22	Z	-2.868	-2.868	0 %100
37	M23	X	-1.656	-1.656	0 %100
38	M23	Z	-2.868	-2.868	0 %100
39	M24	X	-1.626	-1.626	0 %100
40	M24	Z	-2.817	-2.817	0 %100
41	M25	X	-1.255	-1.255	0 %100
42	M25	Z	-2.174	-2.174	0 %100
43	M26	X	-1.228	-1.228	0 %100
44	M26	Z	-2.128	-2.128	0 %100
45	M27	X	-1.738	-1.738	0 %100
46	M27	Z	-3.01	-3.01	0 %100
47	M28	X	-1.228	-1.228	0 %100
48	M28	Z	-2.128	-2.128	0 %100
49	M29	X	-1.69	-1.69	0 %100
50	M29	Z	-2.926	-2.926	0 %100
51	M30	X	-1.228	-1.228	0 %100
52	M30	Z	-2.128	-2.128	0 %100
53	M31	X	-1.228	-1.228	0 %100
54	M31	Z	-2.128	-2.128	0 %100
55	M32	X	-1.228	-1.228	0 %100
56	M32	Z	-2.128	-2.128	0 %100
57	M33	X	-1.656	-1.656	0 %100
58	M33	Z	-2.868	-2.868	0 %100
59	M34	X	-1.656	-1.656	0 %100
60	M34	Z	-2.868	-2.868	0 %100
61	M35	X	-1.626	-1.626	0 %100
62	M35	Z	-2.817	-2.817	0 %100
63	M36	X	-1.255	-1.255	0 %100
64	M36	Z	-2.174	-2.174	0 %100
65	M35A	X	-1.255	-1.255	0 %100
66	M35A	Z	-2.174	-2.174	0 %100
67	M36A	X	-1.255	-1.255	0 %100
68	M36A	Z	-2.174	-2.174	0 %100
69	M37	X	-1.228	-1.228	0 %100
70	M37	Z	-2.128	-2.128	0 %100
71	M38	X	-1.228	-1.228	0 %100
72	M38	Z	-2.128	-2.128	0 %100
73	MP1A	X	-2.043	-2.043	0 %100
74	MP1A	Z	-3.539	-3.539	0 %100
75	MP2A	X	-2.043	-2.043	0 %100
76	MP2A	Z	-3.539	-3.539	0 %100
77	MP3A	X	-2.043	-2.043	0 %100
78	MP3A	Z	-3.539	-3.539	0 %100
79	MP4A	X	-2.043	-2.043	0 %100
80	MP4A	Z	-3.539	-3.539	0 %100
81	M51	X	-1.17	-1.17	0 %100
82	M51	Z	-2.027	-2.027	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.%]
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Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M5	X	0	0	0	%100
2	M5	Z	-.05	-.05	0	%100
3	M6	X	0	0	0	%100
4	M6	Z	-.05	-.05	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	-.784	-.784	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	-.05	-.05	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	-.05	-.05	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	-.784	-.784	0	%100
13	M11	X	0	0	0	%100
14	M11	Z	-.318	-.318	0	%100
15	M12	X	0	0	0	%100
16	M12	Z	-.318	-.318	0	%100
17	M13	X	0	0	0	%100
18	M13	Z	-.318	-.318	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	-.318	-.318	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	-.108	-.108	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	-.424	-.424	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	-.108	-.108	0	%100
27	M18	X	0	0	0	%100
28	M18	Z	-.424	-.424	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	-.108	-.108	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	-.108	-.108	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	-.108	-.108	0	%100
35	M22	X	0	0	0	%100
36	M22	Z	-.475	-.475	0	%100
37	M23	X	0	0	0	%100
38	M23	Z	-.475	-.475	0	%100
39	M24	X	0	0	0	%100
40	M24	Z	-.5	-.5	0	%100
41	M25	X	0	0	0	%100
42	M25	Z	-.134	-.134	0	%100
43	M26	X	0	0	0	%100
44	M26	Z	-.108	-.108	0	%100
45	M27	X	0	0	0	%100
46	M27	Z	-.424	-.424	0	%100
47	M28	X	0	0	0	%100
48	M28	Z	-.108	-.108	0	%100
49	M29	X	0	0	0	%100
50	M29	Z	-.399	-.399	0	%100
51	M30	X	0	0	0	%100
52	M30	Z	-.108	-.108	0	%100
53	M31	X	0	0	0	%100
54	M31	Z	-.108	-.108	0	%100
55	M32	X	0	0	0	%100
56	M32	Z	-.108	-.108	0	%100
57	M33	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
58	M33	Z	-.475	-.475	0	%100
59	M34	X	0	0	0	%100
60	M34	Z	-.475	-.475	0	%100
61	M35	X	0	0	0	%100
62	M35	Z	-.5	-.5	0	%100
63	M36	X	0	0	0	%100
64	M36	Z	-.134	-.134	0	%100
65	M35A	X	0	0	0	%100
66	M35A	Z	-.134	-.134	0	%100
67	M36A	X	0	0	0	%100
68	M36A	Z	-.134	-.134	0	%100
69	M37	X	0	0	0	%100
70	M37	Z	-.108	-.108	0	%100
71	M38	X	0	0	0	%100
72	M38	Z	-.108	-.108	0	%100
73	MP1A	X	0	0	0	%100
74	MP1A	Z	-.648	-.648	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	-.648	-.648	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	-.648	-.648	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-.648	-.648	0	%100
81	M51	X	0	0	0	%100
82	M51	Z	-.069	-.069	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	M5	X	.003	.003	0	%100
2	M5	Z	-.006	-.006	0	%100
3	M6	X	.047	.047	0	%100
4	M6	Z	-.082	-.082	0	%100
5	M7	X	.294	.294	0	%100
6	M7	Z	-.51	-.51	0	%100
7	M8	X	.003	.003	0	%100
8	M8	Z	-.006	-.006	0	%100
9	M9	X	.047	.047	0	%100
10	M9	Z	-.082	-.082	0	%100
11	M10	X	.294	.294	0	%100
12	M10	Z	-.51	-.51	0	%100
13	M11	X	.02	.02	0	%100
14	M11	Z	-.035	-.035	0	%100
15	M12	X	.301	.301	0	%100
16	M12	Z	-.521	-.521	0	%100
17	M13	X	.02	.02	0	%100
18	M13	Z	-.035	-.035	0	%100
19	M14	X	.301	.301	0	%100
20	M14	Z	-.521	-.521	0	%100
21	M15	X	.16	.16	0	%100
22	M15	Z	-.277	-.277	0	%100
23	M16	X	.253	.253	0	%100
24	M16	Z	-.437	-.437	0	%100
25	M17	X	.16	.16	0	%100
26	M17	Z	-.277	-.277	0	%100
27	M18	X	.253	.253	0	%100
28	M18	Z	-.437	-.437	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
29	M19	X	.16	.16	0	%100
30	M19	Z	-.277	-.277	0	%100
31	M20	X	.16	.16	0	%100
32	M20	Z	-.277	-.277	0	%100
33	M21	X	.16	.16	0	%100
34	M21	Z	-.277	-.277	0	%100
35	M22	X	.238	.238	0	%100
36	M22	Z	-.412	-.412	0	%100
37	M23	X	.238	.238	0	%100
38	M23	Z	-.412	-.412	0	%100
39	M24	X	.25	.25	0	%100
40	M24	Z	-.433	-.433	0	%100
41	M25	X	.169	.169	0	%100
42	M25	Z	-.294	-.294	0	%100
43	M26	X	.16	.16	0	%100
44	M26	Z	-.277	-.277	0	%100
45	M27	X	.173	.173	0	%100
46	M27	Z	-.299	-.299	0	%100
47	M28	X	.16	.16	0	%100
48	M28	Z	-.277	-.277	0	%100
49	M29	X	.155	.155	0	%100
50	M29	Z	-.268	-.268	0	%100
51	M30	X	.16	.16	0	%100
52	M30	Z	-.277	-.277	0	%100
53	M31	X	.16	.16	0	%100
54	M31	Z	-.277	-.277	0	%100
55	M32	X	.16	.16	0	%100
56	M32	Z	-.277	-.277	0	%100
57	M33	X	.238	.238	0	%100
58	M33	Z	-.412	-.412	0	%100
59	M34	X	.238	.238	0	%100
60	M34	Z	-.412	-.412	0	%100
61	M35	X	.25	.25	0	%100
62	M35	Z	-.433	-.433	0	%100
63	M36	X	.169	.169	0	%100
64	M36	Z	-.294	-.294	0	%100
65	M35A	X	.169	.169	0	%100
66	M35A	Z	-.294	-.294	0	%100
67	M36A	X	.169	.169	0	%100
68	M36A	Z	-.294	-.294	0	%100
69	M37	X	.16	.16	0	%100
70	M37	Z	-.277	-.277	0	%100
71	M38	X	.16	.16	0	%100
72	M38	Z	-.277	-.277	0	%100
73	MP1A	X	.324	.324	0	%100
74	MP1A	Z	-.561	-.561	0	%100
75	MP2A	X	.324	.324	0	%100
76	MP2A	Z	-.561	-.561	0	%100
77	MP3A	X	.324	.324	0	%100
78	MP3A	Z	-.561	-.561	0	%100
79	MP4A	X	.324	.324	0	%100
80	MP4A	Z	-.561	-.561	0	%100
81	M51	X	.012	.012	0	%100
82	M51	Z	-.02	-.02	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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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	M5	X	.006	.006	0 %100
2	M5	Z	-.004	-.004	0 %100
3	M6	X	.083	.083	0 %100
4	M6	Z	-.048	-.048	0 %100
5	M7	X	.17	.17	0 %100
6	M7	Z	-.098	-.098	0 %100
7	M8	X	.006	.006	0 %100
8	M8	Z	-.004	-.004	0 %100
9	M9	X	.083	.083	0 %100
10	M9	Z	-.048	-.048	0 %100
11	M10	X	.17	.17	0 %100
12	M10	Z	-.098	-.098	0 %100
13	M11	X	.04	.04	0 %100
14	M11	Z	-.023	-.023	0 %100
15	M12	X	.526	.526	0 %100
16	M12	Z	-.304	-.304	0 %100
17	M13	X	.04	.04	0 %100
18	M13	Z	-.023	-.023	0 %100
19	M14	X	.526	.526	0 %100
20	M14	Z	-.304	-.304	0 %100
21	M15	X	.644	.644	0 %100
22	M15	Z	-.372	-.372	0 %100
23	M16	X	.439	.439	0 %100
24	M16	Z	-.253	-.253	0 %100
25	M17	X	.644	.644	0 %100
26	M17	Z	-.372	-.372	0 %100
27	M18	X	.439	.439	0 %100
28	M18	Z	-.253	-.253	0 %100
29	M19	X	.644	.644	0 %100
30	M19	Z	-.372	-.372	0 %100
31	M20	X	.644	.644	0 %100
32	M20	Z	-.372	-.372	0 %100
33	M21	X	.644	.644	0 %100
34	M21	Z	-.372	-.372	0 %100
35	M22	X	.412	.412	0 %100
36	M22	Z	-.238	-.238	0 %100
37	M23	X	.412	.412	0 %100
38	M23	Z	-.238	-.238	0 %100
39	M24	X	.433	.433	0 %100
40	M24	Z	-.25	-.25	0 %100
41	M25	X	.649	.649	0 %100
42	M25	Z	-.375	-.375	0 %100
43	M26	X	.644	.644	0 %100
44	M26	Z	-.372	-.372	0 %100
45	M27	X	.301	.301	0 %100
46	M27	Z	-.174	-.174	0 %100
47	M28	X	.644	.644	0 %100
48	M28	Z	-.372	-.372	0 %100
49	M29	X	.27	.27	0 %100
50	M29	Z	-.156	-.156	0 %100
51	M30	X	.644	.644	0 %100
52	M30	Z	-.372	-.372	0 %100
53	M31	X	.644	.644	0 %100
54	M31	Z	-.372	-.372	0 %100
55	M32	X	.644	.644	0 %100
56	M32	Z	-.372	-.372	0 %100
57	M33	X	.412	.412	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
29	M19	X	.955	.955	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	.955	.955	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	.955	.955	0	%100
34	M21	Z	0	0	0	%100
35	M22	X	.475	.475	0	%100
36	M22	Z	0	0	0	%100
37	M23	X	.475	.475	0	%100
38	M23	Z	0	0	0	%100
39	M24	X	.5	.5	0	%100
40	M24	Z	0	0	0	%100
41	M25	X	.955	.955	0	%100
42	M25	Z	0	0	0	%100
43	M26	X	.955	.955	0	%100
44	M26	Z	0	0	0	%100
45	M27	X	.428	.428	0	%100
46	M27	Z	0	0	0	%100
47	M28	X	.955	.955	0	%100
48	M28	Z	0	0	0	%100
49	M29	X	.403	.403	0	%100
50	M29	Z	0	0	0	%100
51	M30	X	.955	.955	0	%100
52	M30	Z	0	0	0	%100
53	M31	X	.955	.955	0	%100
54	M31	Z	0	0	0	%100
55	M32	X	.955	.955	0	%100
56	M32	Z	0	0	0	%100
57	M33	X	.475	.475	0	%100
58	M33	Z	0	0	0	%100
59	M34	X	.475	.475	0	%100
60	M34	Z	0	0	0	%100
61	M35	X	.5	.5	0	%100
62	M35	Z	0	0	0	%100
63	M36	X	.955	.955	0	%100
64	M36	Z	0	0	0	%100
65	M35A	X	.955	.955	0	%100
66	M35A	Z	0	0	0	%100
67	M36A	X	.955	.955	0	%100
68	M36A	Z	0	0	0	%100
69	M37	X	.955	.955	0	%100
70	M37	Z	0	0	0	%100
71	M38	X	.955	.955	0	%100
72	M38	Z	0	0	0	%100
73	MP1A	X	.648	.648	0	%100
74	MP1A	Z	0	0	0	%100
75	MP2A	X	.648	.648	0	%100
76	MP2A	Z	0	0	0	%100
77	MP3A	X	.648	.648	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	.648	.648	0	%100
80	MP4A	Z	0	0	0	%100
81	M51	X	.579	.579	0	%100
82	M51	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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 Designer : AJH
 Job Number :
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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	M5	X	.083	.083	0	%100
2	M5	Z	.048	.048	0	%100
3	M6	X	.006	.006	0	%100
4	M6	Z	.004	.004	0	%100
5	M7	X	.17	.17	0	%100
6	M7	Z	.098	.098	0	%100
7	M8	X	.083	.083	0	%100
8	M8	Z	.048	.048	0	%100
9	M9	X	.006	.006	0	%100
10	M9	Z	.004	.004	0	%100
11	M10	X	.17	.17	0	%100
12	M10	Z	.098	.098	0	%100
13	M11	X	.526	.526	0	%100
14	M11	Z	.304	.304	0	%100
15	M12	X	.04	.04	0	%100
16	M12	Z	.023	.023	0	%100
17	M13	X	.526	.526	0	%100
18	M13	Z	.304	.304	0	%100
19	M14	X	.04	.04	0	%100
20	M14	Z	.023	.023	0	%100
21	M15	X	.644	.644	0	%100
22	M15	Z	.372	.372	0	%100
23	M16	X	.301	.301	0	%100
24	M16	Z	.174	.174	0	%100
25	M17	X	.644	.644	0	%100
26	M17	Z	.372	.372	0	%100
27	M18	X	.301	.301	0	%100
28	M18	Z	.174	.174	0	%100
29	M19	X	.644	.644	0	%100
30	M19	Z	.372	.372	0	%100
31	M20	X	.644	.644	0	%100
32	M20	Z	.372	.372	0	%100
33	M21	X	.644	.644	0	%100
34	M21	Z	.372	.372	0	%100
35	M22	X	.412	.412	0	%100
36	M22	Z	.238	.238	0	%100
37	M23	X	.412	.412	0	%100
38	M23	Z	.238	.238	0	%100
39	M24	X	.433	.433	0	%100
40	M24	Z	.25	.25	0	%100
41	M25	X	.649	.649	0	%100
42	M25	Z	.375	.375	0	%100
43	M26	X	.644	.644	0	%100
44	M26	Z	.372	.372	0	%100
45	M27	X	.439	.439	0	%100
46	M27	Z	.253	.253	0	%100
47	M28	X	.644	.644	0	%100
48	M28	Z	.372	.372	0	%100
49	M29	X	.427	.427	0	%100
50	M29	Z	.247	.247	0	%100
51	M30	X	.644	.644	0	%100
52	M30	Z	.372	.372	0	%100
53	M31	X	.644	.644	0	%100
54	M31	Z	.372	.372	0	%100
55	M32	X	.644	.644	0	%100
56	M32	Z	.372	.372	0	%100
57	M33	X	.412	.412	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	M33	Z	.238	.238	0	%100
59	M34	X	.412	.412	0	%100
60	M34	Z	.238	.238	0	%100
61	M35	X	.433	.433	0	%100
62	M35	Z	.25	.25	0	%100
63	M36	X	.649	.649	0	%100
64	M36	Z	.375	.375	0	%100
65	M35A	X	.649	.649	0	%100
66	M35A	Z	.375	.375	0	%100
67	M36A	X	.649	.649	0	%100
68	M36A	Z	.375	.375	0	%100
69	M37	X	.644	.644	0	%100
70	M37	Z	.372	.372	0	%100
71	M38	X	.644	.644	0	%100
72	M38	Z	.372	.372	0	%100
73	MP1A	X	.561	.561	0	%100
74	MP1A	Z	.324	.324	0	%100
75	MP2A	X	.561	.561	0	%100
76	MP2A	Z	.324	.324	0	%100
77	MP3A	X	.561	.561	0	%100
78	MP3A	Z	.324	.324	0	%100
79	MP4A	X	.561	.561	0	%100
80	MP4A	Z	.324	.324	0	%100
81	M51	X	.541	.541	0	%100
82	M51	Z	.312	.312	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	M5	X	.047	.047	0	%100
2	M5	Z	.082	.082	0	%100
3	M6	X	.003	.003	0	%100
4	M6	Z	.006	.006	0	%100
5	M7	X	.294	.294	0	%100
6	M7	Z	.51	.51	0	%100
7	M8	X	.047	.047	0	%100
8	M8	Z	.082	.082	0	%100
9	M9	X	.003	.003	0	%100
10	M9	Z	.006	.006	0	%100
11	M10	X	.294	.294	0	%100
12	M10	Z	.51	.51	0	%100
13	M11	X	.301	.301	0	%100
14	M11	Z	.521	.521	0	%100
15	M12	X	.02	.02	0	%100
16	M12	Z	.035	.035	0	%100
17	M13	X	.301	.301	0	%100
18	M13	Z	.521	.521	0	%100
19	M14	X	.02	.02	0	%100
20	M14	Z	.035	.035	0	%100
21	M15	X	.16	.16	0	%100
22	M15	Z	.277	.277	0	%100
23	M16	X	.173	.173	0	%100
24	M16	Z	.299	.299	0	%100
25	M17	X	.16	.16	0	%100
26	M17	Z	.277	.277	0	%100
27	M18	X	.173	.173	0	%100
28	M18	Z	.299	.299	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	M19	X	.16	.16	0	%100
30	M19	Z	.277	.277	0	%100
31	M20	X	.16	.16	0	%100
32	M20	Z	.277	.277	0	%100
33	M21	X	.16	.16	0	%100
34	M21	Z	.277	.277	0	%100
35	M22	X	.238	.238	0	%100
36	M22	Z	.412	.412	0	%100
37	M23	X	.238	.238	0	%100
38	M23	Z	.412	.412	0	%100
39	M24	X	.25	.25	0	%100
40	M24	Z	.433	.433	0	%100
41	M25	X	.169	.169	0	%100
42	M25	Z	.294	.294	0	%100
43	M26	X	.16	.16	0	%100
44	M26	Z	.277	.277	0	%100
45	M27	X	.253	.253	0	%100
46	M27	Z	.437	.437	0	%100
47	M28	X	.16	.16	0	%100
48	M28	Z	.277	.277	0	%100
49	M29	X	.246	.246	0	%100
50	M29	Z	.425	.425	0	%100
51	M30	X	.16	.16	0	%100
52	M30	Z	.277	.277	0	%100
53	M31	X	.16	.16	0	%100
54	M31	Z	.277	.277	0	%100
55	M32	X	.16	.16	0	%100
56	M32	Z	.277	.277	0	%100
57	M33	X	.238	.238	0	%100
58	M33	Z	.412	.412	0	%100
59	M34	X	.238	.238	0	%100
60	M34	Z	.412	.412	0	%100
61	M35	X	.25	.25	0	%100
62	M35	Z	.433	.433	0	%100
63	M36	X	.169	.169	0	%100
64	M36	Z	.294	.294	0	%100
65	M35A	X	.169	.169	0	%100
66	M35A	Z	.294	.294	0	%100
67	M36A	X	.169	.169	0	%100
68	M36A	Z	.294	.294	0	%100
69	M37	X	.16	.16	0	%100
70	M37	Z	.277	.277	0	%100
71	M38	X	.16	.16	0	%100
72	M38	Z	.277	.277	0	%100
73	MP1A	X	.324	.324	0	%100
74	MP1A	Z	.561	.561	0	%100
75	MP2A	X	.324	.324	0	%100
76	MP2A	Z	.561	.561	0	%100
77	MP3A	X	.324	.324	0	%100
78	MP3A	Z	.561	.561	0	%100
79	MP4A	X	.324	.324	0	%100
80	MP4A	Z	.561	.561	0	%100
81	M51	X	.185	.185	0	%100
82	M51	Z	.32	.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
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 Job Number :
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Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M5	X	0	0	0	%100
2	M5	Z	.05	.05	0	%100
3	M6	X	0	0	0	%100
4	M6	Z	.05	.05	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	.784	.784	0	%100
7	M8	X	0	0	0	%100
8	M8	Z	.05	.05	0	%100
9	M9	X	0	0	0	%100
10	M9	Z	.05	.05	0	%100
11	M10	X	0	0	0	%100
12	M10	Z	.784	.784	0	%100
13	M11	X	0	0	0	%100
14	M11	Z	.318	.318	0	%100
15	M12	X	0	0	0	%100
16	M12	Z	.318	.318	0	%100
17	M13	X	0	0	0	%100
18	M13	Z	.318	.318	0	%100
19	M14	X	0	0	0	%100
20	M14	Z	.318	.318	0	%100
21	M15	X	0	0	0	%100
22	M15	Z	.108	.108	0	%100
23	M16	X	0	0	0	%100
24	M16	Z	.424	.424	0	%100
25	M17	X	0	0	0	%100
26	M17	Z	.108	.108	0	%100
27	M18	X	0	0	0	%100
28	M18	Z	.424	.424	0	%100
29	M19	X	0	0	0	%100
30	M19	Z	.108	.108	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	.108	.108	0	%100
33	M21	X	0	0	0	%100
34	M21	Z	.108	.108	0	%100
35	M22	X	0	0	0	%100
36	M22	Z	.475	.475	0	%100
37	M23	X	0	0	0	%100
38	M23	Z	.475	.475	0	%100
39	M24	X	0	0	0	%100
40	M24	Z	.5	.5	0	%100
41	M25	X	0	0	0	%100
42	M25	Z	.134	.134	0	%100
43	M26	X	0	0	0	%100
44	M26	Z	.108	.108	0	%100
45	M27	X	0	0	0	%100
46	M27	Z	.424	.424	0	%100
47	M28	X	0	0	0	%100
48	M28	Z	.108	.108	0	%100
49	M29	X	0	0	0	%100
50	M29	Z	.399	.399	0	%100
51	M30	X	0	0	0	%100
52	M30	Z	.108	.108	0	%100
53	M31	X	0	0	0	%100
54	M31	Z	.108	.108	0	%100
55	M32	X	0	0	0	%100
56	M32	Z	.108	.108	0	%100
57	M33	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	M33	Z	.475	.475	0	%100
59	M34	X	0	0	0	%100
60	M34	Z	.475	.475	0	%100
61	M35	X	0	0	0	%100
62	M35	Z	.5	.5	0	%100
63	M36	X	0	0	0	%100
64	M36	Z	.134	.134	0	%100
65	M35A	X	0	0	0	%100
66	M35A	Z	.134	.134	0	%100
67	M36A	X	0	0	0	%100
68	M36A	Z	.134	.134	0	%100
69	M37	X	0	0	0	%100
70	M37	Z	.108	.108	0	%100
71	M38	X	0	0	0	%100
72	M38	Z	.108	.108	0	%100
73	MP1A	X	0	0	0	%100
74	MP1A	Z	.648	.648	0	%100
75	MP2A	X	0	0	0	%100
76	MP2A	Z	.648	.648	0	%100
77	MP3A	X	0	0	0	%100
78	MP3A	Z	.648	.648	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	.648	.648	0	%100
81	M51	X	0	0	0	%100
82	M51	Z	.069	.069	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	M5	X	-.003	-.003	0	%100
2	M5	Z	.006	.006	0	%100
3	M6	X	-.047	-.047	0	%100
4	M6	Z	.082	.082	0	%100
5	M7	X	-.294	-.294	0	%100
6	M7	Z	.51	.51	0	%100
7	M8	X	-.003	-.003	0	%100
8	M8	Z	.006	.006	0	%100
9	M9	X	-.047	-.047	0	%100
10	M9	Z	.082	.082	0	%100
11	M10	X	-.294	-.294	0	%100
12	M10	Z	.51	.51	0	%100
13	M11	X	-.02	-.02	0	%100
14	M11	Z	.035	.035	0	%100
15	M12	X	-.301	-.301	0	%100
16	M12	Z	.521	.521	0	%100
17	M13	X	-.02	-.02	0	%100
18	M13	Z	.035	.035	0	%100
19	M14	X	-.301	-.301	0	%100
20	M14	Z	.521	.521	0	%100
21	M15	X	-.16	-.16	0	%100
22	M15	Z	.277	.277	0	%100
23	M16	X	-.253	-.253	0	%100
24	M16	Z	.437	.437	0	%100
25	M17	X	-.16	-.16	0	%100
26	M17	Z	.277	.277	0	%100
27	M18	X	-.253	-.253	0	%100
28	M18	Z	.437	.437	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	M19	X	-.16	-.16	0	%100
30	M19	Z	.277	.277	0	%100
31	M20	X	-.16	-.16	0	%100
32	M20	Z	.277	.277	0	%100
33	M21	X	-.16	-.16	0	%100
34	M21	Z	.277	.277	0	%100
35	M22	X	-.238	-.238	0	%100
36	M22	Z	.412	.412	0	%100
37	M23	X	-.238	-.238	0	%100
38	M23	Z	.412	.412	0	%100
39	M24	X	-.25	-.25	0	%100
40	M24	Z	.433	.433	0	%100
41	M25	X	-.169	-.169	0	%100
42	M25	Z	.294	.294	0	%100
43	M26	X	-.16	-.16	0	%100
44	M26	Z	.277	.277	0	%100
45	M27	X	-.173	-.173	0	%100
46	M27	Z	.299	.299	0	%100
47	M28	X	-.16	-.16	0	%100
48	M28	Z	.277	.277	0	%100
49	M29	X	-.155	-.155	0	%100
50	M29	Z	.268	.268	0	%100
51	M30	X	-.16	-.16	0	%100
52	M30	Z	.277	.277	0	%100
53	M31	X	-.16	-.16	0	%100
54	M31	Z	.277	.277	0	%100
55	M32	X	-.16	-.16	0	%100
56	M32	Z	.277	.277	0	%100
57	M33	X	-.238	-.238	0	%100
58	M33	Z	.412	.412	0	%100
59	M34	X	-.238	-.238	0	%100
60	M34	Z	.412	.412	0	%100
61	M35	X	-.25	-.25	0	%100
62	M35	Z	.433	.433	0	%100
63	M36	X	-.169	-.169	0	%100
64	M36	Z	.294	.294	0	%100
65	M35A	X	-.169	-.169	0	%100
66	M35A	Z	.294	.294	0	%100
67	M36A	X	-.169	-.169	0	%100
68	M36A	Z	.294	.294	0	%100
69	M37	X	-.16	-.16	0	%100
70	M37	Z	.277	.277	0	%100
71	M38	X	-.16	-.16	0	%100
72	M38	Z	.277	.277	0	%100
73	MP1A	X	-.324	-.324	0	%100
74	MP1A	Z	.561	.561	0	%100
75	MP2A	X	-.324	-.324	0	%100
76	MP2A	Z	.561	.561	0	%100
77	MP3A	X	-.324	-.324	0	%100
78	MP3A	Z	.561	.561	0	%100
79	MP4A	X	-.324	-.324	0	%100
80	MP4A	Z	.561	.561	0	%100
81	M51	X	-.012	-.012	0	%100
82	M51	Z	.02	.02	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
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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	M5	X	-.006	-.006	0	%100
2	M5	Z	.004	.004	0	%100
3	M6	X	-.083	-.083	0	%100
4	M6	Z	.048	.048	0	%100
5	M7	X	-.17	-.17	0	%100
6	M7	Z	.098	.098	0	%100
7	M8	X	-.006	-.006	0	%100
8	M8	Z	.004	.004	0	%100
9	M9	X	-.083	-.083	0	%100
10	M9	Z	.048	.048	0	%100
11	M10	X	-.17	-.17	0	%100
12	M10	Z	.098	.098	0	%100
13	M11	X	-.04	-.04	0	%100
14	M11	Z	.023	.023	0	%100
15	M12	X	-.526	-.526	0	%100
16	M12	Z	.304	.304	0	%100
17	M13	X	-.04	-.04	0	%100
18	M13	Z	.023	.023	0	%100
19	M14	X	-.526	-.526	0	%100
20	M14	Z	.304	.304	0	%100
21	M15	X	-.644	-.644	0	%100
22	M15	Z	.372	.372	0	%100
23	M16	X	-.439	-.439	0	%100
24	M16	Z	.253	.253	0	%100
25	M17	X	-.644	-.644	0	%100
26	M17	Z	.372	.372	0	%100
27	M18	X	-.439	-.439	0	%100
28	M18	Z	.253	.253	0	%100
29	M19	X	-.644	-.644	0	%100
30	M19	Z	.372	.372	0	%100
31	M20	X	-.644	-.644	0	%100
32	M20	Z	.372	.372	0	%100
33	M21	X	-.644	-.644	0	%100
34	M21	Z	.372	.372	0	%100
35	M22	X	-.412	-.412	0	%100
36	M22	Z	.238	.238	0	%100
37	M23	X	-.412	-.412	0	%100
38	M23	Z	.238	.238	0	%100
39	M24	X	-.433	-.433	0	%100
40	M24	Z	.25	.25	0	%100
41	M25	X	-.649	-.649	0	%100
42	M25	Z	.375	.375	0	%100
43	M26	X	-.644	-.644	0	%100
44	M26	Z	.372	.372	0	%100
45	M27	X	-.301	-.301	0	%100
46	M27	Z	.174	.174	0	%100
47	M28	X	-.644	-.644	0	%100
48	M28	Z	.372	.372	0	%100
49	M29	X	-.27	-.27	0	%100
50	M29	Z	.156	.156	0	%100
51	M30	X	-.644	-.644	0	%100
52	M30	Z	.372	.372	0	%100
53	M31	X	-.644	-.644	0	%100
54	M31	Z	.372	.372	0	%100
55	M32	X	-.644	-.644	0	%100
56	M32	Z	.372	.372	0	%100
57	M33	X	-.412	-.412	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	M19	X	-.955	-.955	0	%100
30	M19	Z	0	0	0	%100
31	M20	X	-.955	-.955	0	%100
32	M20	Z	0	0	0	%100
33	M21	X	-.955	-.955	0	%100
34	M21	Z	0	0	0	%100
35	M22	X	-.475	-.475	0	%100
36	M22	Z	0	0	0	%100
37	M23	X	-.475	-.475	0	%100
38	M23	Z	0	0	0	%100
39	M24	X	-.5	-.5	0	%100
40	M24	Z	0	0	0	%100
41	M25	X	-.955	-.955	0	%100
42	M25	Z	0	0	0	%100
43	M26	X	-.955	-.955	0	%100
44	M26	Z	0	0	0	%100
45	M27	X	-.428	-.428	0	%100
46	M27	Z	0	0	0	%100
47	M28	X	-.955	-.955	0	%100
48	M28	Z	0	0	0	%100
49	M29	X	-.403	-.403	0	%100
50	M29	Z	0	0	0	%100
51	M30	X	-.955	-.955	0	%100
52	M30	Z	0	0	0	%100
53	M31	X	-.955	-.955	0	%100
54	M31	Z	0	0	0	%100
55	M32	X	-.955	-.955	0	%100
56	M32	Z	0	0	0	%100
57	M33	X	-.475	-.475	0	%100
58	M33	Z	0	0	0	%100
59	M34	X	-.475	-.475	0	%100
60	M34	Z	0	0	0	%100
61	M35	X	-.5	-.5	0	%100
62	M35	Z	0	0	0	%100
63	M36	X	-.955	-.955	0	%100
64	M36	Z	0	0	0	%100
65	M35A	X	-.955	-.955	0	%100
66	M35A	Z	0	0	0	%100
67	M36A	X	-.955	-.955	0	%100
68	M36A	Z	0	0	0	%100
69	M37	X	-.955	-.955	0	%100
70	M37	Z	0	0	0	%100
71	M38	X	-.955	-.955	0	%100
72	M38	Z	0	0	0	%100
73	MP1A	X	-.648	-.648	0	%100
74	MP1A	Z	0	0	0	%100
75	MP2A	X	-.648	-.648	0	%100
76	MP2A	Z	0	0	0	%100
77	MP3A	X	-.648	-.648	0	%100
78	MP3A	Z	0	0	0	%100
79	MP4A	X	-.648	-.648	0	%100
80	MP4A	Z	0	0	0	%100
81	M51	X	-.579	-.579	0	%100
82	M51	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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Company : Maser Consulting
 Designer : AJH
 Job Number :
 Model Name : 467759-VZW_MT_LOT_SectorA_H

Sept 3, 2021
 11:52 AM
 Checked By: _____

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	M5	X	-0.83	-0.83	0	%100
2	M5	Z	-0.48	-0.48	0	%100
3	M6	X	-0.06	-0.06	0	%100
4	M6	Z	-0.04	-0.04	0	%100
5	M7	X	-0.17	-0.17	0	%100
6	M7	Z	-0.98	-0.98	0	%100
7	M8	X	-0.83	-0.83	0	%100
8	M8	Z	-0.48	-0.48	0	%100
9	M9	X	-0.06	-0.06	0	%100
10	M9	Z	-0.04	-0.04	0	%100
11	M10	X	-0.17	-0.17	0	%100
12	M10	Z	-0.98	-0.98	0	%100
13	M11	X	-0.526	-0.526	0	%100
14	M11	Z	-0.304	-0.304	0	%100
15	M12	X	-0.04	-0.04	0	%100
16	M12	Z	-0.023	-0.023	0	%100
17	M13	X	-0.526	-0.526	0	%100
18	M13	Z	-0.304	-0.304	0	%100
19	M14	X	-0.04	-0.04	0	%100
20	M14	Z	-0.023	-0.023	0	%100
21	M15	X	-0.644	-0.644	0	%100
22	M15	Z	-0.372	-0.372	0	%100
23	M16	X	-0.301	-0.301	0	%100
24	M16	Z	-0.174	-0.174	0	%100
25	M17	X	-0.644	-0.644	0	%100
26	M17	Z	-0.372	-0.372	0	%100
27	M18	X	-0.301	-0.301	0	%100
28	M18	Z	-0.174	-0.174	0	%100
29	M19	X	-0.644	-0.644	0	%100
30	M19	Z	-0.372	-0.372	0	%100
31	M20	X	-0.644	-0.644	0	%100
32	M20	Z	-0.372	-0.372	0	%100
33	M21	X	-0.644	-0.644	0	%100
34	M21	Z	-0.372	-0.372	0	%100
35	M22	X	-0.412	-0.412	0	%100
36	M22	Z	-0.238	-0.238	0	%100
37	M23	X	-0.412	-0.412	0	%100
38	M23	Z	-0.238	-0.238	0	%100
39	M24	X	-0.433	-0.433	0	%100
40	M24	Z	-0.25	-0.25	0	%100
41	M25	X	-0.649	-0.649	0	%100
42	M25	Z	-0.375	-0.375	0	%100
43	M26	X	-0.644	-0.644	0	%100
44	M26	Z	-0.372	-0.372	0	%100
45	M27	X	-0.439	-0.439	0	%100
46	M27	Z	-0.253	-0.253	0	%100
47	M28	X	-0.644	-0.644	0	%100
48	M28	Z	-0.372	-0.372	0	%100
49	M29	X	-0.427	-0.427	0	%100
50	M29	Z	-0.247	-0.247	0	%100
51	M30	X	-0.644	-0.644	0	%100
52	M30	Z	-0.372	-0.372	0	%100
53	M31	X	-0.644	-0.644	0	%100
54	M31	Z	-0.372	-0.372	0	%100
55	M32	X	-0.644	-0.644	0	%100
56	M32	Z	-0.372	-0.372	0	%100
57	M33	X	-0.412	-0.412	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	M19	X	-16	-16	0	%100
30	M19	Z	-277	-277	0	%100
31	M20	X	-16	-16	0	%100
32	M20	Z	-277	-277	0	%100
33	M21	X	-16	-16	0	%100
34	M21	Z	-277	-277	0	%100
35	M22	X	-238	-238	0	%100
36	M22	Z	-412	-412	0	%100
37	M23	X	-238	-238	0	%100
38	M23	Z	-412	-412	0	%100
39	M24	X	-25	-25	0	%100
40	M24	Z	-433	-433	0	%100
41	M25	X	-169	-169	0	%100
42	M25	Z	-294	-294	0	%100
43	M26	X	-16	-16	0	%100
44	M26	Z	-277	-277	0	%100
45	M27	X	-253	-253	0	%100
46	M27	Z	-437	-437	0	%100
47	M28	X	-16	-16	0	%100
48	M28	Z	-277	-277	0	%100
49	M29	X	-246	-246	0	%100
50	M29	Z	-425	-425	0	%100
51	M30	X	-16	-16	0	%100
52	M30	Z	-277	-277	0	%100
53	M31	X	-16	-16	0	%100
54	M31	Z	-277	-277	0	%100
55	M32	X	-16	-16	0	%100
56	M32	Z	-277	-277	0	%100
57	M33	X	-238	-238	0	%100
58	M33	Z	-412	-412	0	%100
59	M34	X	-238	-238	0	%100
60	M34	Z	-412	-412	0	%100
61	M35	X	-25	-25	0	%100
62	M35	Z	-433	-433	0	%100
63	M36	X	-169	-169	0	%100
64	M36	Z	-294	-294	0	%100
65	M35A	X	-169	-169	0	%100
66	M35A	Z	-294	-294	0	%100
67	M36A	X	-169	-169	0	%100
68	M36A	Z	-294	-294	0	%100
69	M37	X	-16	-16	0	%100
70	M37	Z	-277	-277	0	%100
71	M38	X	-16	-16	0	%100
72	M38	Z	-277	-277	0	%100
73	MP1A	X	-324	-324	0	%100
74	MP1A	Z	-561	-561	0	%100
75	MP2A	X	-324	-324	0	%100
76	MP2A	Z	-561	-561	0	%100
77	MP3A	X	-324	-324	0	%100
78	MP3A	Z	-561	-561	0	%100
79	MP4A	X	-324	-324	0	%100
80	MP4A	Z	-561	-561	0	%100
81	M51	X	-185	-185	0	%100
82	M51	Z	-32	-32	0	%100



Member Area Loads

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

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N4	max	848.986	10	1566.51	17	266.506	1	-.078	9	0	51	.008	3
2		min	-1088.481	4	479.497	11	-3510.343	20	-.283	15	0	1	-.015	49
3	N65	max	1066.744	10	1230.876	24	3571.976	14	-.069	2	0	51	.011	3
4		min	-807.695	4	392.688	9	-405.816	8	-.226	20	0	1	-.015	49
5	N70	max	415.354	3	45.219	23	1247.452	9	0	51	0	51	0	51
6		min	-432.757	9	-1.888	5	-1256.312	3	0	1	0	1	0	1
7	Totals:	max	1508.179	10	2835.589	23	2217.714	1						
8		min	-1508.179	4	896.939	5	-2217.715	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	M5	PL3/8x3.5	.547	.25	24	.068	0	y	3	40839.983	42525	.332	3.101	1...H1-1b
2	M6	PL3/8x3.5	.701	.25	17	.094	0	y	31	40839.983	42525	.332	3.101	1...H1-1b
3	M7	PIPE 2.5	.341	2.625	9	.155	2.625		9	11606.18	50715	3.596	3.596	2...H1-1b
4	M8	PL3/8x3.5	.458	.25	17	.057	0	y	5	40839.983	42525	.332	3.101	1...H1-1b
5	M9	PL3/8x3.5	.612	.25	23	.083	0	z	21	40839.983	42525	.332	3.101	1...H1-1b
6	M10	PIPE 2.5	.504	2.625	3	.103	2.625		3	11606.18	50715	3.596	3.596	2...H1-1b
7	M11	PIPE 2.0	.307	.495	21	.077	0		14	21054.34	32130	1.872	1.872	2...H1-1b
8	M12	PIPE 2.0	.383	.495	17	.101	0		15	21054.34	32130	1.872	1.872	2...H1-1b
9	M13	PIPE 2.0	.358	5.937	3	.071	5.381		39	21054.34	32130	1.872	1.872	2...H1-1b
10	M14	PIPE 2.0	.364	.557	14	.085	0		21	21054.34	32130	1.872	1.872	1...H1-1b
11	M15	PL3/8x3	.105	0	15	.117	0	y	15	36083.44	36450	.285	2.278	1...H1-1b
12	M16	1.5x.06	.318	1.983	14	.034	0		3	5367.453	8550.159	.327	.327	1...H1-1a
13	M17	PL3/8x3	.054	0	14	.056	0	y	17	36083.44	36450	.285	2.278	1...H1-1b
14	M18	1.5x.06	.120	2.025	13	.024	0		12	5367.453	8550.159	.327	.327	1...H1-1b
15	M19	PL3/8x3	.054	0	13	.058	0	y	23	36083.44	36450	.285	2.278	1...H1-1b
16	M20	PL3/8x3	.026	.125	15	.023	.125	y	2	36083.44	36450	.285	2.278	1...H1-1b*
17	M21	PL3/8x3	.094	.125	15	.108	0	y	15	36083.44	36450	.285	2.278	1...H1-1b
18	M22	1.5x.06	.149	3.25	15	.021	3.25		2	6335.261	8550.159	.327	.327	1...H1-1b*
19	M23	1.5x.06	.246	1.794	15	.012	3.25		6	6335.261	8550.159	.327	.327	1...H1-1a
20	M24	PIPE 2.0	.018	0	15	.003	2.5		6	29810.292	32130	1.872	1.872	1...H1-1b*
21	M25	PL3/8x3.5	.017	0	3	.012	.375	y	6	38827.291	42525	.332	3.101	1...H1-1b
22	M26	PL3/8x3	.084	0	23	.089	.125	y	15	36083.44	36450	.285	2.278	1...H1-1b
23	M27	1.5x.06	.260	1.983	24	.027	4.05		3	5367.453	8550.159	.327	.327	1...H1-1a
24	M28	PL3/8x3	.062	0	11	.069	.125	y	17	36083.44	36450	.285	2.278	1...H1-1b
25	M29	1.5x.06	.106	1.878	13	.058	3.756		5	5729.056	8550.159	.327	.327	1...H1-1b
26	M30	PL3/8x3	.045	0	17	.088	0	y	5	36083.44	36450	.285	2.278	1...H1-1b
27	M31	PL3/8x3	.020	.125	21	.021	0	y	49	36083.44	36450	.285	2.278	1...H1-1b*
28	M32	PL3/8x3	.073	.125	23	.084	.125	y	15	36083.44	36450	.285	2.278	1...H1-1b
29	M33	1.5x.06	.114	3.25	21	.015	0		49	6335.261	8550.159	.327	.327	1...H1-1b*
30	M34	1.5x.06	.184	3.25	21	.011	3.25		9	6335.261	8550.159	.327	.327	1...H1-1b*
31	M35	PIPE 2.0	.138	0	23	.010	2.5		39	29810.292	32130	1.872	1.872	1...H1-1b
32	M36	PL3/8x3.5	.028	0	11	.019	.375	y	3	38827.291	42525	.332	3.101	1...H1-1b
33	M35A	PL3/8x3.5	.017	.375	3	.012	0	y	6	38827.291	42525	.332	3.101	1...H1-1b
34	M36A	PL3/8x3.5	.091	.375	24	.074	0	y	5	38827.291	42525	.332	3.101	1...H1-1b
35	M37	PL3/8x3	.014	0	15	.015	.125	y	6	36083.44	36450	.285	2.278	1...H1-1b*
36	M38	PL3/8x3	.016	.125	11	.022	.125	y	3	36083.44	36450	.285	2.278	1...H1-1b
37	MP1A	PIPE 2.0	.088	.938	18	.022	4.375		27	23808.54	32130	1.872	1.872	1...H1-1b
38	MP2A	PIPE 2.0	.161	.938	18	.092	.885		9	23808.54	32130	1.872	1.872	1...H1-1b



Company : Maser Consulting
 Designer : AJH
 Job Number :
 Model Name : 467759-VZW_MT_LOT_SectorA_H

Sept 3, 2021
 11:52 AM
 Checked By: _____

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

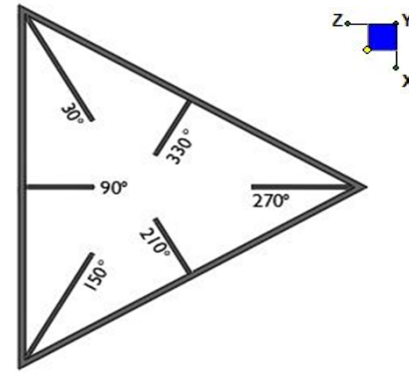
Member	Shape	Code Check	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC	phi*Pnc	[...phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
39	MP3A	PIPE 2.0	.115	4.375	35	.061	4.375	3	23808.54	32130	1.872	1.872	1... H1-1b
40	MP4A	PIPE 2.0	.403	3.385	9	.190	4.375	3	23808.54	32130	1.872	1.872	2... H1-1b
41	M51	PIPE 2.0	.075	0	49	.005	5.113	23	23485.642	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)
N4	90
N65	90



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):

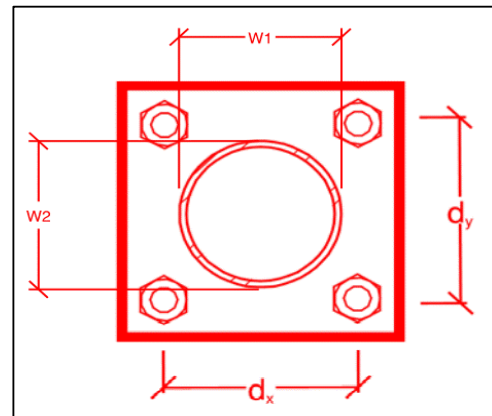
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
2
3.5
2
U-Bolt
0.5
6.9
1.7
16.3
9.8
21.0%*
8.6%



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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

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



Base Requirements:







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








Photo Requirements:


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


Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos

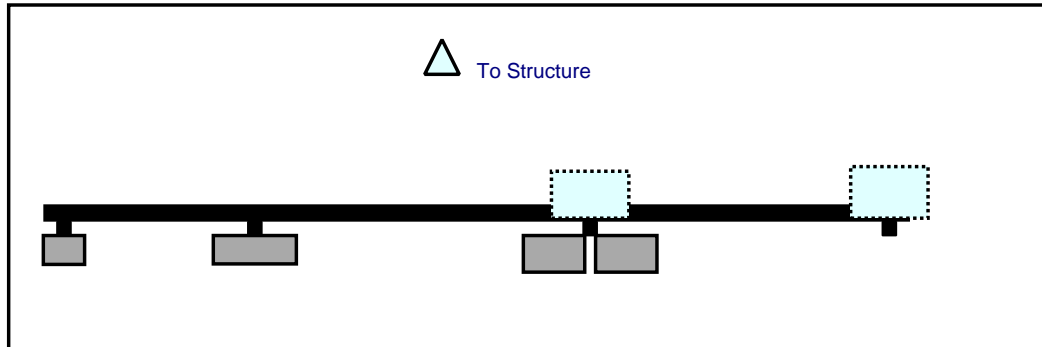
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop

 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present

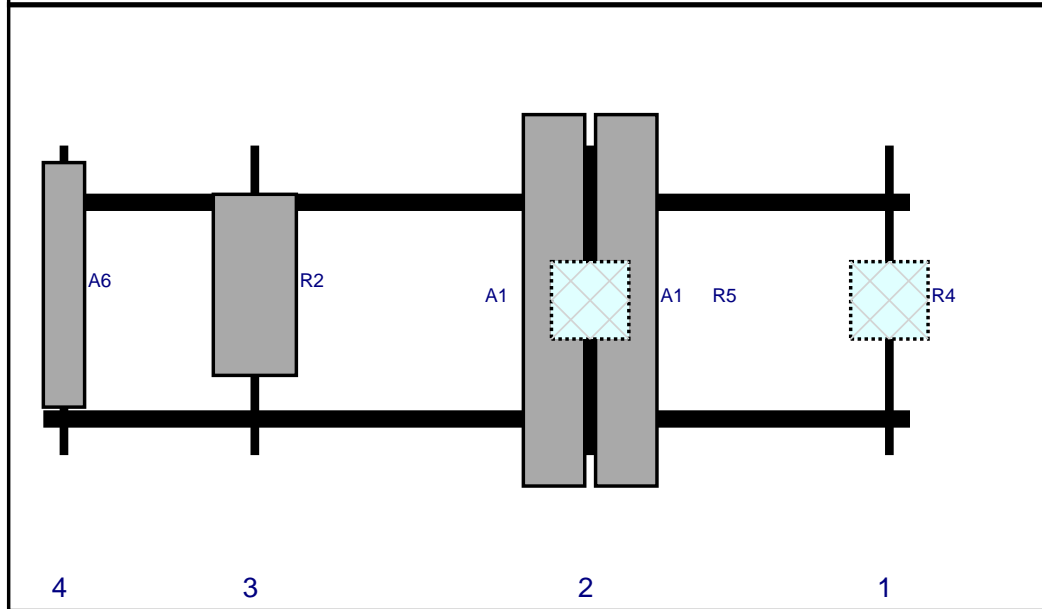
 -  Certifications – Submission of this document including certifications

 -  Specific Required Additional Photos

Plan View

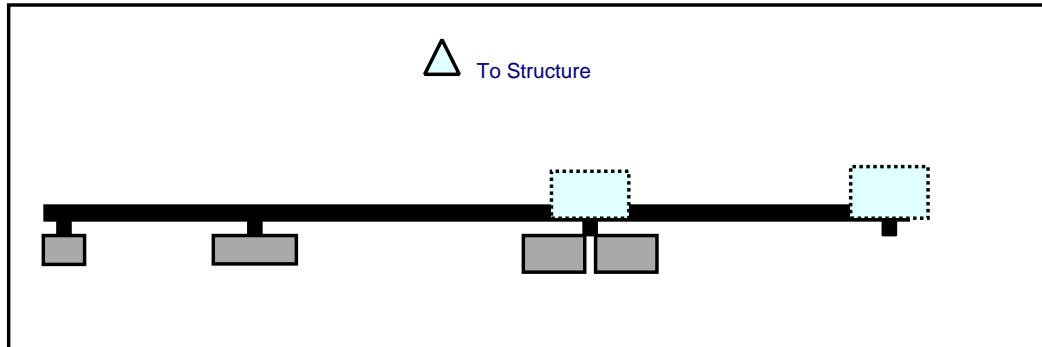


Front View
Looking at Structure

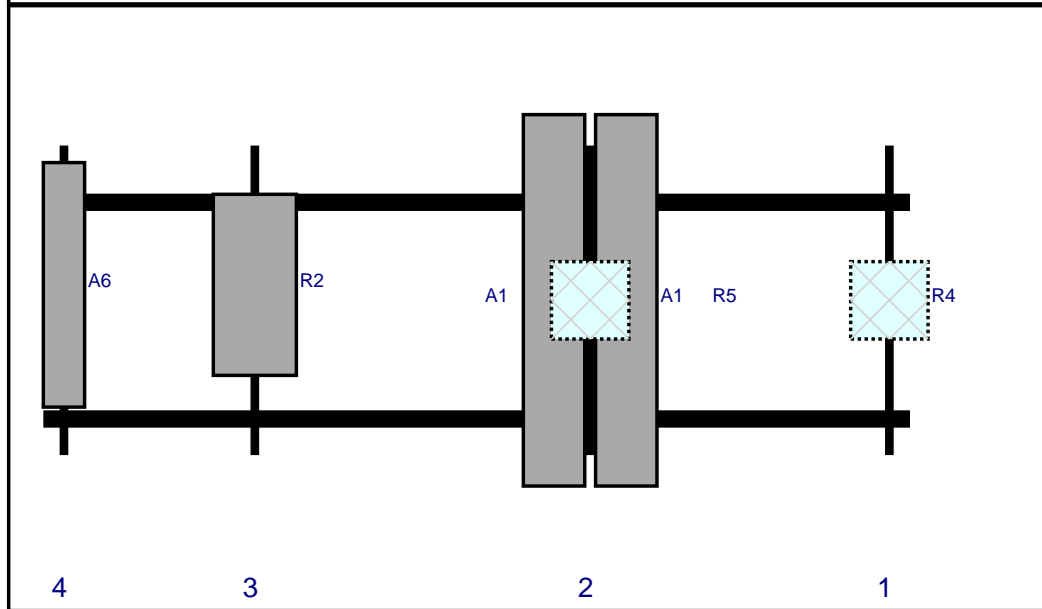


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	RF4439d-25A	15	15	164	1	a	Behind	30	0	Added	
A1	NHH-65B-R2B	72	11.9	106	2	a	Front	30	7	Added	
A1	NHH-65B-R2B	72	11.9	106	2	b	Front	30	-7	Added	
R5	RF4440d-13A	15	15	106	2	a	Behind	30	0	Added	
R2	MT6407-77A	35.1	16.1	41	3	a	Front	27	0	Added	
A6	BXA-70080-4BF-EDIN	47.4	8	4	4	a	Front	27	0	Retained	03/31/2021

Plan View

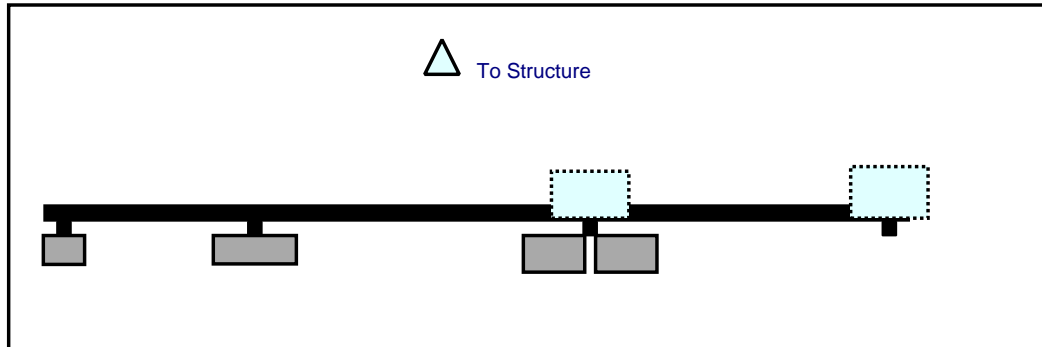


Front View
Looking at Structure

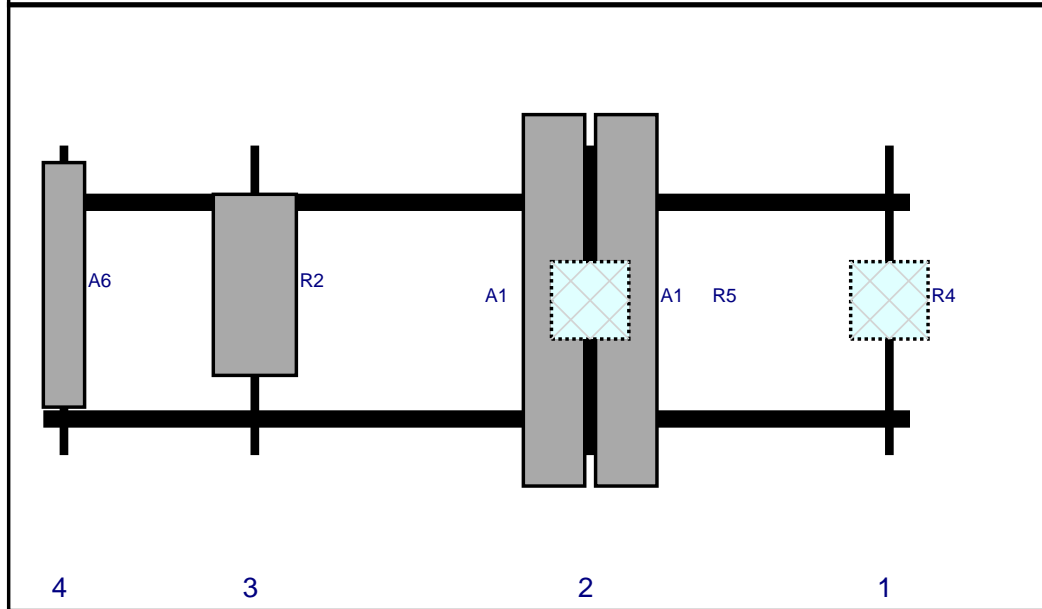


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	RF4439d-25A	15	15	164	1	a	Behind	30	0	Added	
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A1	NHH-65B-R2B	72	11.9	106	2	b	Front	30	-7	Added	
R5	RF4440d-13A	15	15	106	2	a	Behind	30	0	Added	
R2	MT6407-77A	35.1	16.1	41	3	a	Front	27	0	Added	
A6	BXA-70080-4BF-EDIN	47.4	8	4	4	a	Front	27	0	Retained	03/31/2021

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	RF4439d-25A	15	15	164	1	a	Behind	30	0	Added	
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R5	RF4440d-13A	15	15	106	2	a	Behind	30	0	Added	
R2	MT6407-77A	35.1	16.1	41	3	a	Front	27	0	Added	
A6	BXA-70080-4BF-EDIN	47.4	8	4	4	a	Front	27	0	Retained	03/31/2021

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID:	467759-VZW / ELLINGTON CT
Site Name:	ELLINGTON CT
Carrier Name:	Verizon Wireless
Address:	101 Burbank Rd Ellington, Connecticut 06029 Tolland County
Latitude:	41.936231°
Longitude:	-72.385303°

Structure Information

Tower Type:	Self Support
Mount Type:	14.00-Ft Sector Frame

To Whom It May Concern,

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

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

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

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

Sincerely,



Dejian Xu, PE
Technical Manager

ATTACHMENT 5



1.38 AC

105

148-010-0000

1.38 AC

103

ACCESS EASEMENT

148-012-0000

3.08 AC 99

148-013-0000

0.69 AC

97

148-014-0000

1.38 AC

95

148-015-0000

1.38 AC

93

148-006-0000

14.01 AC

148-016-0000

2.06 AC

91

101

148-017-0000

6.2 AC

ELECTRIC EASEMENT

148-02

7.9

BURBANK RD

7-0000

AC

8

120

94

41.935295,-72.385822



The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2020.



Information on the Property Records for the Municipality of Ellington was last updated on 12/7/2021.

Property Summary Information

Parcel Data And Values

Building ▾

Outbuildings

Sales

Permits

Parcel Information

Location:	101 BURBANK RD	Property Use:	Residential	Primary Use:	Residential
Unique ID:	00396900	Map Block Lot:	148 017 0000	Acres:	6.20
490 Acres:	0.00	Zone:	RAR	Volume / Page:	0484/0677
Developers Map / Lot:	3600SF LEASE PCL; 21	Census:	5352		

Value Information

	Appraised Value	Assessed Value
Land	333,260	233,280
Buildings	372,200	260,540
Detached Outbuildings	26,390	18,480
Total	731,850	512,300

Owner's Information

Owner's Data
ASUMADU BERNARD + JANE K 101 BURBANK RD ELLINGTON, CT 06029

ATTACHMENT 6



ELLINGTON
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 <div style="text-align: center; font-size: 2em;">3</div>	TOTAL NO. of Pieces Received at Post Office™ <div style="text-align: center; font-size: 2em;">3</div>	Affix Stamp Here <i>Postmark with Date of Receipt.</i> <div style="text-align: right; color: magenta;"> neopost 12/13/2021 US POSTAGE \$002.99⁰ ZIP 06103 041L12203937 </div>
Postmaster, per (name of receiving employee) <div style="text-align: center; font-size: 2em;"> </div>			

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Lori L. Speilman, First Selectman Town of Ellington 55 Main Street Ellington, CT 06029				
2.	Lisa M. Houlihan, Town Planner Town of Ellington 55 Main Street Ellington, CT 06029				
3.	Bernard and Jane Asumadu 101 Burbank Road Ellington, CT 06029				
4.					
5.					
6.					