

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
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Also admitted in Massachusetts
and New York

October 15, 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
36 Lower County Road (a/k/a 35 Lower County Road), Roxbury, 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 and associated equipment on the ground adjacent to the tower. The tower was approved by the Town of Roxbury (“Town”) in April of 1999. Cellco’s use of the tower was approved by the Siting Council (“Council”) in February of 2004 (EM-VER-120-040107). A copy of the Town’s approvals and the Council’s EM-VER-120-040107 approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing twelve (12) existing antennas with three (3) new Samsung MT6407-77A antennas and six (6) JAHH-65C-R3B-V2 antennas on Cellco’s existing antenna mounts. A set of project plans showing Cellco’s proposed facility modifications and new antenna specifications are included in Attachment 2.

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

Melanie A. Bachman, Esq.
October 15, 2021
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The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

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

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

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

Melanie A. Bachman, Esq.
October 15, 2021
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Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with the first name "Kenneth" being more prominent and the last name "Baldwin" following in a similar style.

Kenneth C. Baldwin

Enclosures

Copy to:

Barbara Henry, Roxbury First Selectman
John Cody, Roxbury Zoning Enforcement Officer
Karl Hanna

ATTACHMENT 1

**TOWN OF ROXBURY
APPLICATION FOR ZONING PERMIT**

Fee \$75 – Payable to Town of Roxbury

Office Use only: Wetlands Permit: _____ Date issued _____
Zoning Permit # _____ Date Issued _____ Fee Paid _____ Date _____
APPROVED BY: Chairman, Zoning _____ date _____
Zoning Enforcement Officer _____ date _____

Application is hereby made for permit as follows: (Description of building type or land use). If application is for a dwelling or dwelling addition, percolation test results MUST be attached. In addition, a complete set of construction plans showing floor plan and elevations must be submitted.

Section 7.1 of the Roxbury Zoning Regulations requires an A-2 survey prepared by a Licensed Surveyor showing to scale the size and location of all new construction and all existing structures on the site, distances from lot lines, the established street grades and the proposed finished grades; and it shall be drawn in accordance with an accurate boundary line survey.

PROPERTY OWNER: Town of Roxbury phone 860-354-9938

ADDRESS: 29 North Street, Roxbury, CT 06783

AGENT/BUILDER: Nextel Communications of the Mid-Atlantic, Inc.,
d/b/a Nextel Communications phone 860-513-5403

ADDRESS: 100 Corporate Place, Rocky Hill, CT 06067

PROPERTY (for which permit is requested):

Street location: Lower County Road Lot # 29 Assessor's Map 27 Zone: C

Is property within the Roxbury Historic District? No

DESCRIBE USE/ACTIVITY PROPOSED: Operation of a Personal Wireless Facility
to provide Specialized Mobile Radio ("SMR") Services to Nextel's Customers
living in and traveling through Roxbury, CT.

There are 4 existing buildings and structures on the lot as indicated below:

<u>TYPE/USE</u>	<u>GROUND COVERAGE</u>	<u>TOTAL FLOOR AREA</u>
1. <u>Existing shed/storage</u>	<u>25'x18'</u>	<u>456 sq. ft.</u>
2. <u>Existing moveable shed/storage</u>	<u>7'x8'</u>	<u>56 sq. ft.</u>
3. <u>Existing moveable shed/storage</u>	<u>9'x6'</u>	<u>54 sq. ft.</u>
4. <u>Existing moveable shed/storage</u>	<u>9'x6'</u>	<u>54 sq. ft.</u>

CATEGORY OF APPLICATIONS:1. Proposed building or structure and use thereof: 180' Telecommunications Tower and associated building and equipment2. Sign permit _____ 3. Other * 4. Change of use of existing building or structure: Yes or (No)CONSTRUCTION OF STRUCTURE:

Frame: _____ Brick: _____ Concrete: _____ Other: steel lattice tower Height: 180 ft.

First floor area: _____ Second floor area: 585.74 No. bedrooms: _____ No. baths: _____

Building Lot Area: 208,030 sq. ft. Street Frontage ft. Distance to Street Line: 27'

Distance to nearest Boundary Line: 10' Distance to Rear Boundary Line: 510' Estimated cost: \$175,000

3. Special Permit for new tower construction and Site Plan Approval required.
PLEASE COMPLETE THE FOLLOWING:

Is an A-2 Survey map (with a Licensed CT Surveyor's original signature) showing lot location, surrounding parcels, road frontage and position and dimensions of existing and proposed buildings attached? Yes

Is the location of septic system and water supply designated on map? No

Will proposed construction and septic systems be staked out on the property?

Is lot in Federal Flood Hazard Zone? No Is this lot within an approved subdivision? No

If so, give subdivision name: _____

List below any additional data and/or plans submitted with this application:

1. "Memorandum In Support of Special Permit and Site Plan Application"
2. with supporting Exhibits and Sub-exhibits, prepared by Cuddy & Feder &
3. Worby LLP

Approval of this application or issuance of a zoning permit shall not be considered to constitute compliance with any other regulations, ordinances or law or relieve the undersigned from responsibility to obtain permit thereunder.

I declare that the above information is true, correct and complete:

Signature of Owner: See attached "Letter of Authorization" from Town of Roxbury date: _____

Signature of Agent/Builder: Cuddy & Feder & Worby LLP date: 5/24/99

FOR COMMISSION USE: Public Hearing Date: _____ To Planning Commission _____

Decision by Zoning Commission: Approved: _____ Permit issued: _____ Denied: _____

If denied, was decision appealed? _____

LETTER OF AUTHORIZATION

Municipality: Town of Roxbury

Tax Assessor's Parcel Number: Map 27, Lot 29

Re: Building Permits and Land Use Approvals

Town of Roxbury, the Owner of Transfer Station, Lower County Road (the "Property") does hereby appoint Nextel Communications of the Mid-Atlantic, Inc. ("Nextel") and its agents and representatives as Owner's Agent for the purpose of completing, executing, and/or filing any applications, form, map, approval, variance, special permit or other land use approval or building permit ("Approvals") required to provide Nextel with lawful access to, and the ability to use the Property for the purpose of installing, erecting, or otherwise placing antennae, support structures and related equipment on the Property. Owner shall fully cooperate with Nextel and its agents and representatives in obtaining any required Approvals. Nextel shall be responsible for all costs, filing fees, or any expense incurred in the connection with securing any Approvals.

Property Owner: Town of Roxbury

By: Barbara Henry

Name: Barbara Henry

Its: First Selectman

Date: April 20, 1999

STATE OF CONNECTICUT:

COUNTY OF LITCHFIELD

Signed and Sworn to before me this 20 th day of April, 1999.

Brooke J. Wheel
Notary Public

My Commission expires:

My Commission Expires
October 31, 2002

CUDDY & FEDER & WORBY LLP
ATTORNEY PROFESSIONAL ACCOUNT

20238

ACCOUNT NO.		VENDOR			CHECK NO. 020238
VOUCHER	INVOICE NUMBER	INVOICE DATE	INVOICE AMOUNT	AMOUNT PAID	DISCOUNT TAKEN
	13614	05/24/99	285.00	285.00	
				CHECK TOTAL	\$285.00



CUDDY & FEDER & WORBY LLP
ATTORNEY PROFESSIONAL ACCOUNT
90 MAPLE AVENUE
WHITE PLAINS, NY 10601
(914) 761-1300

THE BANK OF NEW YORK
WHITE PLAINS, NY 10601
50-235-219

20238

PAY

TWO HUNDRED EIGHTY FIVE DOLLARS AND 00/100

CHECK NO.	CHECK DATE	VENDOR NO.
020238	05/24/99	OTV

CHECK AMOUNT
285.00

TO THE
ORDER
OF

Town of Roxbury

Matthew Long

⑈020238⑈ ⑆021902352⑆ ⑈0044211734⑈

Waterbury Republican American
P.O. Box 2090
389 Meadow Street
Waterbury, CT 06722
FAX: 1-203-754-0644 (Classified)

LEGAL NOTICE TO APPEAR IN WATERBURY REPUBLICAN
FRIDAY, SEPTEMBER 24th

The Roxbury Zoning Commission at its regular meeting on September 13, 1999 voted to approve a Special Permit for NEXTEL Communications to construct a telecommunications tower and equipment shelter on Lower County Road in Roxbury.

The Commission approved the permit for the following reasons:

The application was referred to the Planning Commission and received a positive report as to its consistency with the Plan of Development.

The Zoning Commission held a duly warned Public Hearing on the application.

The Federal Communications Act of 1996 mandates municipalities cannot unreasonably deny the siting of personal wireless facilities within the Town's boundaries.

NEXTEL's application meets the standards set forth in Section 5.11 (Telecommunications Antenna, Facilities and Antenna Towers) and Section 6 (Authorization of Use by Special Permit) of the Town of Roxbury's Zoning regulations.

The facility meets the environmental requirements of the Federal Communications Act of 1996.

It preserves the character and appearance of the Town while allowing adequate Personal Wireless Service.

Provides excellent communications facilities for the Town's needs including those of the Fire and Ambulance Services and the Public Works Department.

NEXTEL has agreed to post a bond satisfactory in terms and amount to the Town Attorney and the Town's expert tower consultant. Therefore, this bond shall be a condition of the special permit approval.

.....
Please send bill to:

Roxbury Zoning Commission
29 North Street
P. O. Box 203
Roxbury, CT 06783

Attn: Karen Eddy
FAX: (860) 355-4028

**THE ROXBURY ZONING COMMISSION
ROXBURY, CONNECTICUT 06783**

October 21, 1999

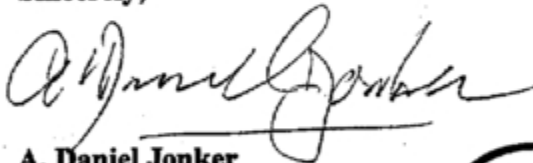
**NEXTEL Communications
1 North Broadway, 2nd Floor
White Plains, NY 10601-2310**

Dear Sirs:

The Special Zoning Permit to install a Telecommunications Tower in Roxbury has been prepared. The Special Permit will be forwarded to you upon receipt of the required fees. Please remit fees due as soon as possible.

Special Permit Application Fee	\$110.
Public Hearing Fee	<u>\$175.</u>
Total due	\$285.

Sincerely,



**A. Daniel Jonker
Chairman, Zoning**

ADJ/kse

**CC: Christopher Fisher
David Bass**

Done!
Pay Tectonic!

Waterbury Republican American
P.O. Box 2090
389 Meadow Street
Waterbury, CT 06722
FAX: 1-203-754-0644 (Classified)

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.....
Please send bill to:

Roxbury Zoning Commission
29 North Street
P. O. Box 203
Roxbury, CT 06783

Attn: Karen Eddy
FAX: (860) 355-4028

February 4, 2004

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

RE: **EM-VER-120-040107** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 38 Lower County Road, Roxbury, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on February 3, 2004, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the condition that the foundation be reinforced as specified on structure sheet S-1 of the engineering report sealed by Mohsen Sahirad, P.E.

The proposed modifications are to be implemented as specified here and in your notice dated January 7, 2004. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,

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

c: Honorable Barbara Henry, First Selectman, Town of Roxbury
James Pierpont, Zoning Enforcement Officer, Town of Roxbury
Thomas F. Flynn III, Nextel Communications
Michele G. Briggs, Southwestern Bell Mobile Systems
Christopher B. Fisher, Esq., Cuddy & Feder LLP

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY UPGRADE

ROXBURY CT

35 LOWER COUNTY ROAD, ROXBURY, CT 06783

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT SUPPLEMENT, INCLUDING THE 1A/DA-222 REVISION "G" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2017 CONNECTICUT FIRE SAFETY CODE, NATIONAL ELECTRICAL CODE, AND LOCAL CODES.
- SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
- CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
- CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, AND ALL TRADES AS APPLICABLE. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
- DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.

SITE DIRECTIONS

FROM:	TO:
20 ALEXANDER DRIVE WALLINGFORD, CONNECTICUT	35 LOWER COUNTY RD. ROXBURY, CT 06783
1. START OUT GOING NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD.	0.18 MI
2. TURN RIGHT ONTO BARNES INDUSTRIAL RD.	0.11 MI
3. TAKE THE 1ST LEFT ONTO CT-68.	0.35 MI
4. TURN RIGHT ONTO RAMP.	0.17 MI
5. TURN RIGHT ONTO N COLONY RD/US-5 N.	0.30 MI
6. MERGE ONTO CT-15 N TOWARD HARTFORD.	3.89 MI
7. MERGE ONTO I-691 W VIA EXIT 68W TOWARD MERIDEN/WATERBURY.	7.79 MI
8. MERGE ONTO I-84 W VIA EXIT 1 ON THE LEFT TOWARD DANBURY/WATERBURY.	18.80 MI
9. TAKE THE US-6 E/CT-67 EXIT, EXIT 15, TOWARD SOUTHBURY.	0.18 MI
10. MERGE ONTO MAIN ST/US-6 E/CT-67 TOWARD SOUTHBURY/HERITAGE VILLAGE.	1.48 MI
11. TURN LEFT ONTO ROXBURY RD/CT-67, CONTINUE TO FOLLOW CT-67.	5.51 MI
12. TURN SLIGHT LEFT ONTO LOWER COUNTY RD.	0.28 MI
14. 35 LOWER COUNTY RD, ROXBURY, CT 06783-1801. 35 LOWER COUNTY RD IS ON THE LEFT.	0.94 MI

VICINITY MAP

SCALE: 1" = 100'



PROJECT SUMMARY

- THE PROPOSED UPGRADE SCOPE OF WORK AT THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY GENERALLY INCLUDES THE FOLLOWING:
 - AT THE EXISTING LATTICE TOWER MOUNTED ANTENNA SECTORS:
 - REMOVE (3) EXISTING ANTEL - BXA-700B3-6CF ANTENNAS.
 - REMOVE (6) EXISTING ANTEL - LPA-800B0/6CF ANTENNAS.
 - REMOVE (3) EXISTING SPARE ANTENNAS.
 - RETAIN (6) EXISTING COAXIAL CABLES.
 - INSTALL (6) ANDREW - JAH4-65C-R3B-V2 ANTENNAS.
 - INSTALL (3) SAMSUNG MT6407-77A ALL-IN-ONE ANTENNA/ RRUs.
 - INSTALL (3) SAMSUNG - B2/B66A RRRH-BRO49 RRUs.
 - INSTALL (3) SAMSUNG - B5/B13 RRRH-BRO4C RRUs.
 - INSTALL (1) RFS OVP BOX.
 - INSTALL (3) COMMSCOPE - BASMNT-SBS-2-2 ANTENNA MOUNTS.
 - INSTALL (3) COMMSCOPE - TD-850B-LITE78-43 DIPLEXERS.
 - INSTALL (1) RFS - HB158-13U12524 HYBRID CABLE.
 - PERFORM ANTENNA MOUNT MODIFICATIONS (DESIGNED BY OTHERS AS REFERENCED HEREIN). ** SEE C-2**

PROJECT INFORMATION

SITE NAME:	ROXBURY CT
SITE ADDRESS:	35 LOWER COUNTY RD, ROXBURY, CT 06783
LESSEE/TENANT:	CELCO PARTNERSHIP d/b/a VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
CONTACT PERSON:	WALTER CHARCZNSKI (CONSTRUCTION MANAGER) VERIZON WIRELESS (860) 306-1806
ENGINEER:	CENITEK ENGINEERING, INC. 63-2 NORTH BRAUNFORD RD. BRAINTON, CT 06405 (203) 488-0580
PROJECT COORDINATES:	LATITUDE: 41°-33'-34.6392"N LONGITUDE: 73°-17'-32.0388"W COORDINATES AND GROUND ELEVATION BASED ON VERIZON WIRELESS RFDS DATED JULY 1, 2021.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	0
N-1	NOTES AND SPECIFICATIONS	0
B-1	RF BILL OF MATERIALS	0
C-1	COMPOUND PLAN AND ELEVATION	0
C-2	ANTENNA SECTOR CONFIGURATION DETAILS	0
C-3	RF DETAILS	0
E-1	ELECTRICAL DETAILS AND SPECIFICATIONS	0

PROFESSIONAL ENGINEER SEAL

verizon

CENITEK Engineering
Contractors & Builders
2031 86-0580
2031 86-8587 Fax
63-2 North Braunford Road
Branford, CT 06405
www.CenitekEng.com

Celco Partnership d/b/a Verizon Wireless
ROXBURY CT
35 LOWER COUNTY ROAD,
ROXBURY, CT 06783

DATE: 07/23/21
SCALE: AS NOTED
JOB NO. 2100714

TITLE SHEET

T-1
Sheet No. 1 of 1

DESIGN BASIS:

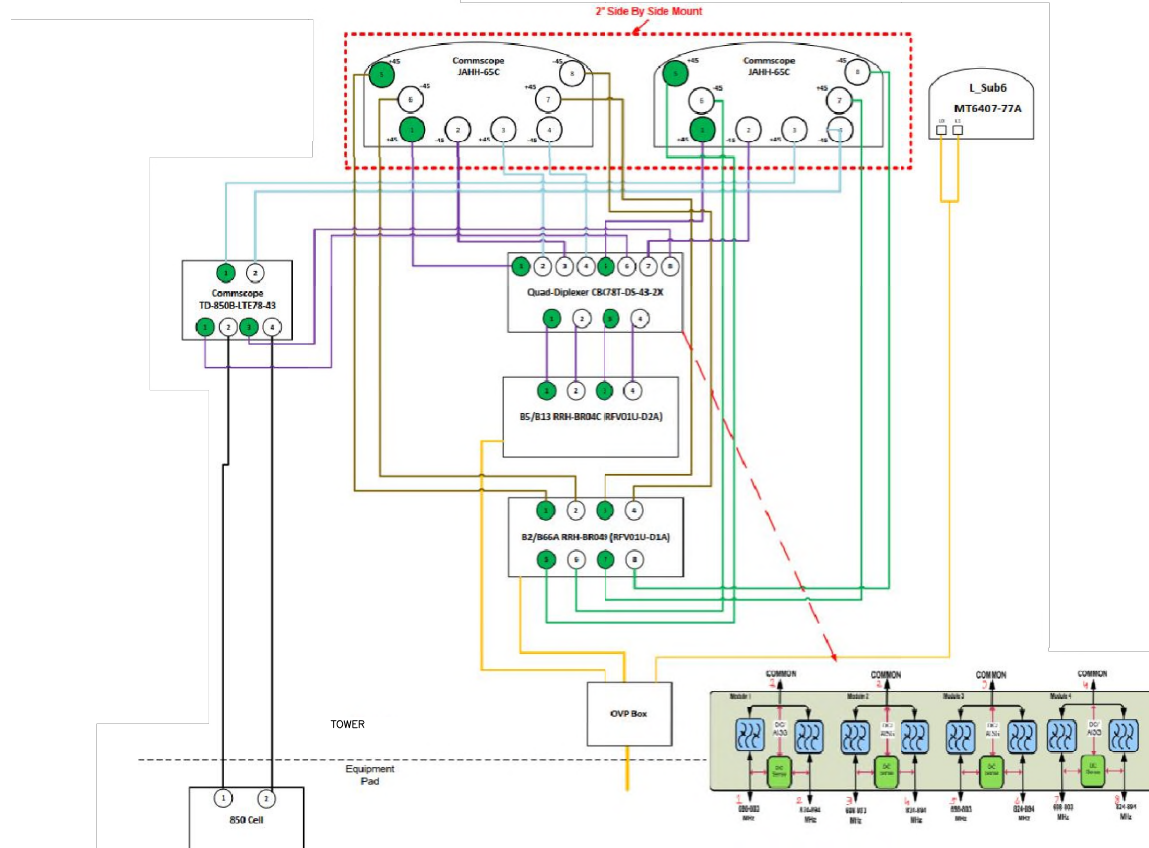
GOVERNING CODE: 2015 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY
THE 2018 CT STATE BUILDING CODE AND AMENDMENTS.

1. DESIGN CRITERIA:

- RISK CATEGORY: II (BASED ON TABLE 1604.5 OF THE 2015 IBC)
- NOMINAL DESIGN SPEED (TOWER): 93 MPH (Vasd) (EXPOSURE B/IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) PER 2015 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE.
- SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

1. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE GOVERNING BUILDING CODE.
2. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE EXCEEDED OR EXCEEDED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXCUTE THE WORK CORRECTLY IN ACCORDANCE WITH HIS OWNERS' STANDARDS, CODES, ORDINANCES, AND ANY OTHER APPLICABLE STANDARDS.
3. BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AT OR CONTIGUOUS TO THE SITE WHICH MAY AFFECT PERFORMANCE AND COST OF THE WORK.
4. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST EXISTING FIELD CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
6. ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SURFACE, AND SUBSURFACE CONDITIONS ARE APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND REFERENCES, ANGLES WITH EXISTING CONDITIONS AND WITH ARCHITECTURAL AND SITE DRAWINGS BEFORE BEGINNING WITH ANY CONSTRUCTION.
7. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS WHICH ARE IN CONFLICT OR OTHERWISE NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE SHIELDING, BRACING, AND GUARDRAILS AS MAY BE REQUIRED FOR THE PROTECTION OF EXISTING PROPERTY, CONSTRUCTION WORKERS, AND FOR PUBLIC SAFETY.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURE AND ITS STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADDITION OF WAIVERING SHORE, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY TO MAINTAIN EXISTING SITE OPERATIONS, COORDINATE WORK WITH NORTHEAST UTILITIES
10. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR THE REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
11. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

[illegible]



- NOTES**
1. INFORMATION SHOWN HEREIN IS FOR USE BY VERIZON WIRELESS EQUIPMENT OPERATIONS.
 2. THIS B.O.M. DRAWING IS BASED OFF FACILITY UPGRADE DESIGN DRAWINGS PREPARED BY CENTEK ENGINEERING (REV.0 DATED: 09.22.21), & VERIZON WIRELESS RF ANTENNA EQUIPMENT RECOMMENDATION (DATED 07.23.21).

BILL OF MATERIALS		
TECHNOLOGY	QUANTITY	ANTENNA
LTE 700	6	ANDREW MODEL: JAHH-65C-R3B-V2
LTE 850		
LTE PCS 1900		
LTE AWS 2100		
5G	3	SAMSUNG ANTENNA MODEL: MT6407-77A

CABLES	QUANTITY	LENGTH	COMMENTS
RFS HYBRID CABLES	1	#230FT EA	RFS MODEL: HB158-13U12S24

RADIOS	QUANTITY	COMMENTS
LTE 700	3	SAMSUNG MODEL: B5/B13 RRH-BRD4C
LTE 850		
LTE PCS 1900	3	SAMSUNG MODEL: B2/B66A RRH-BRD4B
LTE AWS 2100	3	INTEGRATED INTO MT6407-77A ANTENNA

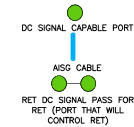
DIPLEXERS	QUANTITY	COMMENTS
COMMSCOPE DIPLEXER	3	RFS MODEL: TD850B-LTE78-43

OVP BOXES	QUANTITY	COMMENTS
RFS OVP BOX	1	RFS MODEL: DB-C1-12C-244B-OZ

ANTENNA MOUNT	QUANTITY	COMMENTS
SIDE-BY-SIDE MOUNTING KIT	3	COMMSCOPE MODEL: BASMNT-SBS-2-2

- PLUMBING DIAGRAM NOTES**
1. PORTS 1 & 2 ARE FOR LOW BAND (698-896 MHz).
 2. PORTS 3, 4, 5 & 5 ARE FOR HIGH BAND (1695-2360 MHz).
 3. SMART BIAS TEE (SBT) IS THROUGH ANTENNA PORTS 1 & 3 (1 FOR LOW BAND AND 3 FOR HIGH BAND).
 4. ASSG CABLE IS ONLY NEEDED WHEN DRAWN IN THE DIAGRAMS ABOVE. IF IT IS NOT DRAWN THEN SBT IS ENOUGH TO CONTROL ALL RET MOTORS.
 5. NOT ALL SBT PORTS ARE NEEDED TO CONTROL RET. ONLY GREEN PORT CONNECTION TO GREEN PORT WILL CONTROL RET.
- RET DC SIGNAL PASS FOR RET (PORT THAT WILL CONTROL RET)

- PLUMBING DIAGRAM COMMENTS**
- DIAGRAMS SHOW ANTENNA PORT CONFIGURATIONS AS VIEWED FROM BELOW ANTENNAS.
 - ANTENNA POSITIONS ARE INDICATED AS VIEWED FROM IN FRONT OF ANTENNAS.
 - CAP AND WEATHERPROOF UNUSED ANTENNA PORTS.
 - ALL PLUMBING DIAGRAM COLORS ARE IRRELEVANT EXCEPT FOR ASSG AND HYBRIFLEX CABLE. (FOR THE COAX COLORS, FOLLOW COAX COLORS GUIDE ABOVE)



PROFESSIONAL ENGINEER SEAL

verizon

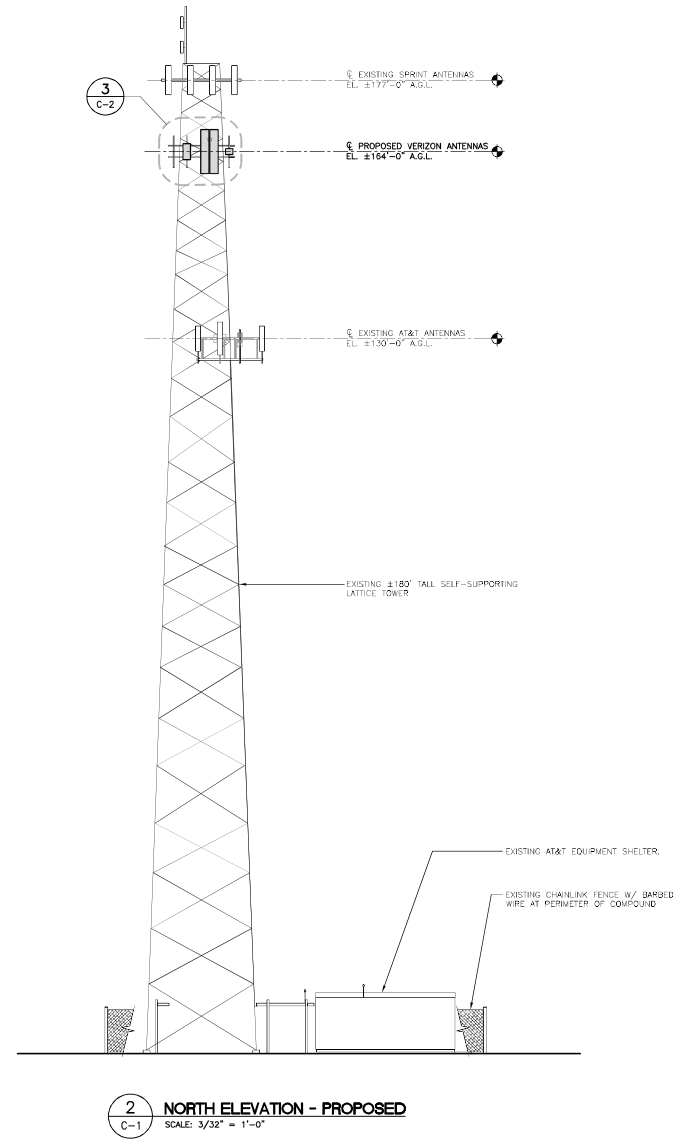
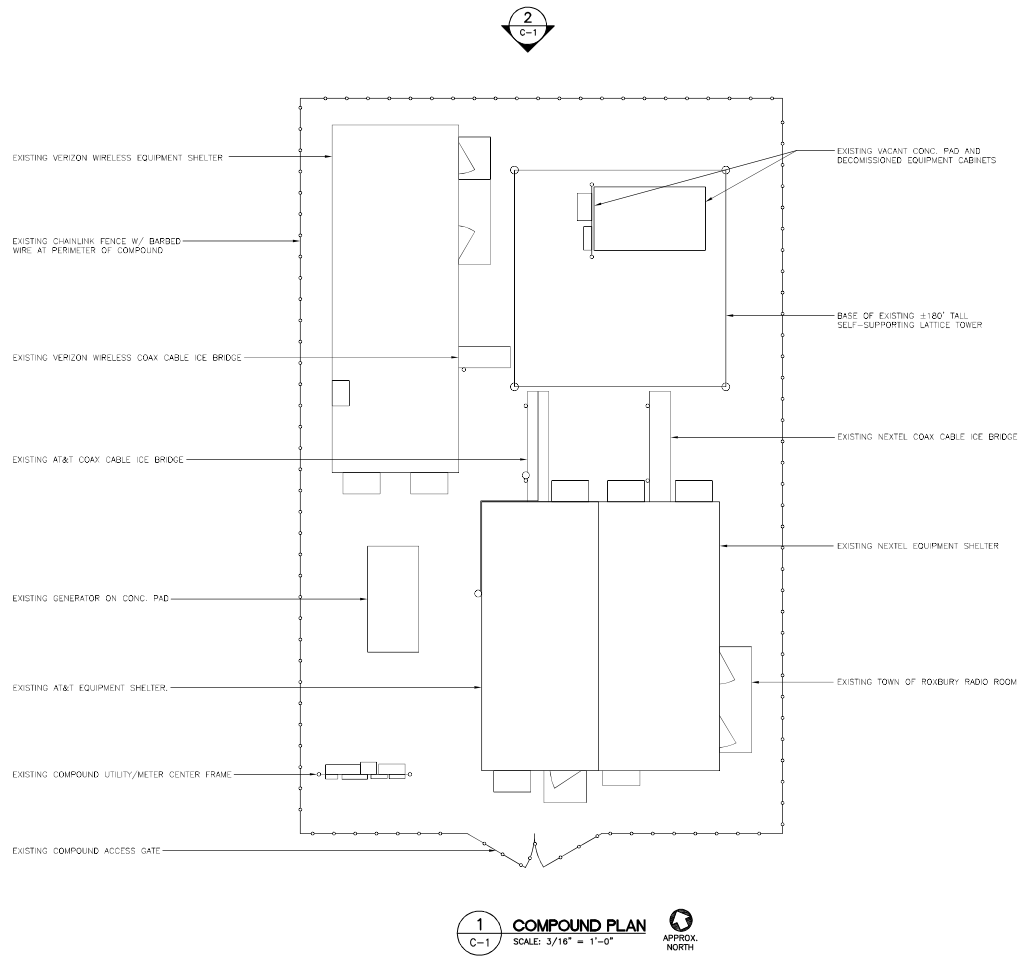
CENTEK Engineering
Contractors & Engineers

Cellco Partnership d/b/a Verizon Wireless
ROXBURY CT
95 LOWER COUNTY ROAD,
ROXBURY, CT 06783

DATE: 07/23/21
SCALE: AS NOTED
JOB NO. 21007.14

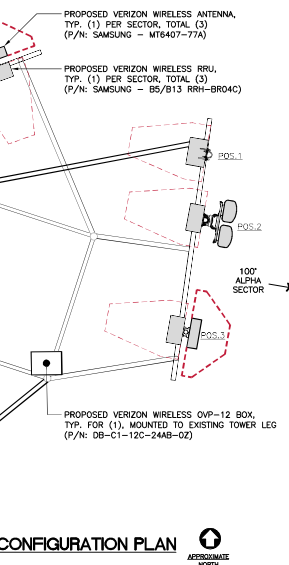
RF BILL OF MATERIALS

B-1
Sheet No. 2 of 1



PROFESSIONAL ENGINEER SEAL		DATE	07/23/21
DATE		SCALE	AS NOTED
JOB NO.		21007.14	
COMPOUND PLAN AND ELEVATION			
C-1			
Sheet No. 4 of 1			
Cellco Partnership d/b/a Verizon Wireless		ROXBURY CT	
35 LOWER COUNTY ROAD,		ROXBURY, CT 06783	
CENTEK Engineering		www.CentekEng.com	
(203) 486-2590		(203) 486-8587 Fax	
65-2 North Broad Road		Westfield, CT 06096	
CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION		CONSTRUCTION DRAWINGS - REVISED MASTER MOUNT ANALYSIS DATE	
CONSTRUCTION DRAWINGS - REVISED PER REVISIONS		CONSTRUCTION DRAWINGS - ISSUED FOR CLIENT REVIEW	
NO.		DATE	DESCRIPTION
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2	07/23/21	ANC	ISSUED FOR CONSTRUCTION
3	07/23/21	ANC	ISSUED FOR CONSTRUCTION
4	07/23/21	ANC	ISSUED FOR CONSTRUCTION
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PROPOSED ANTENNA CONFIGURATIONS



LEGEND	
---	VERIZON WIRELESS MT6407-77A REQUIRED ANTENNA CLEARANCE LIMIT (PER DETAILS ON SHEET C-3)
ANTENNA CLEARANCE STATUS	ALPHA SECTOR: <u>COMPLIANT</u> BETA SECTOR: <u>COMPLIANT</u> GAMMA SECTOR: <u>COMPLIANT</u>
-----	VERIZON WIRELESS RRU REQUIRED ANTENNA CLEARANCE LIMITS (PER DETAILS ON SHEET C-3)
RRU CLEARANCE STATUS	ALPHA SECTOR: <u>COMPLIANT</u> BETA SECTOR: <u>COMPLIANT</u> GAMMA SECTOR: <u>COMPLIANT</u>



Calico Partnership d/b/a Verizon Wireless CENIEK engineering <i>Connect us all together™</i>		ROXBURY CT 35 LOWER COURT ROAD, ROXBURY, CT 06783						FROM: CENIEK ENGINEERING, INC. TO:		CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION	
DATE:	07/23/21	SCALE:	AS NOTED	DATE:	07/23/21	DATE:	07/23/21	DATE:	07/23/21	DATE:	07/23/21
JOB NO.	21097.14										
ANTENNA SECTOR CONFIGURATION DETAILS				DRAWN BY: CENIEK CHECKED BY: CENIEK DATE: 07/23/21				PROJECT: 21097.14			



ANTENNA FRONT

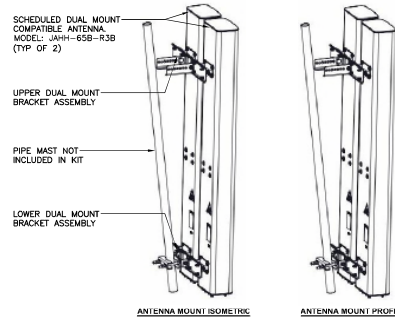
SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: M16407-77A	35.1"W x 16.1"W x 5.5"D (NOT TO EXCEED)	87 LBS. (NOT TO EXCEED)
CLEARANCES AND SERVICE AREA		
TOP:	31.5"	HORIZONTAL DISTANCE: 31.5" (ANT. TO ANT.)
FRONT, SIDES & BOTTOM:	15.7"	VERTICAL DISTANCE: 63.0" (ANT. TO ANT.)
NOTES: 1. THIS ANTENNA HAS ITS OWN BUILT-IN RRH.		

1 SECTOR ANTENNA DETAIL
C-3 NOT TO SCALE

ELEVATION-ISOMETRIC BOTTOM

8-PORT SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: JAHH-850C-R3B	95.9"L x 13.7"W x 8.1"D (W/O/UT MOUNT KIT)	79.587 LBS.

2 ANTENNA DETAIL
C-3 NOT TO SCALE



ANTENNA MOUNT ISOMETRIC ANTENNA MOUNT PROFILE

DUAL ANTENNA MOUNTING KIT		
EQUIPMENT	DESCRIPTION	WEIGHT
MOUNT MAKE: COMMSCOPE MODEL: ISAMNT-SBS-2-2	- SIDE-BY-SIDE MOUNTING KIT, ACCOMMODATES (2) COMPATIBLE ANTENNAS - ACCOMMODATES MAST DIAMETERS FROM 2.375" TO 4.5" (O.D.)	67.5 LB

3 DUAL ANTENNA MOUNT DETAIL
C-3 NOT TO SCALE



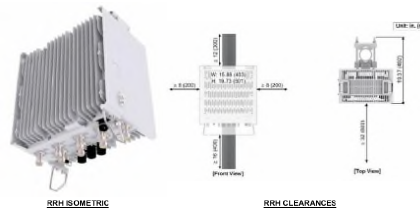
OVP BOX		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: RAYCAP MODEL: DB-C1-12C-24AB-OZ	29.5"H x 16.5"W x 12.6"D	32 LBS.
NOTES: 1. CONTRACTOR TO CONFIRM OVP BOX MAKE/MODEL AND QUANTITY WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.		

4 PROPOSED OVER-VOLTAGE PROTECTION BOX
C-4 NOT TO SCALE



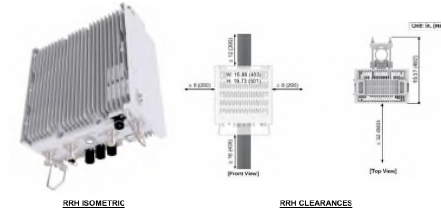
DIPLEXER			
EQUIPMENT	DESCRIPTION	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: TD-850B-LTE78-43	TWIN IN-BAND DIPLEXER 850 MHz	15.4"H x 15.2"W x 6.4"D (W/MNTG HDWR)	21.8 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

5 DIPLEXER DETAIL
C-3 NOT TO SCALE



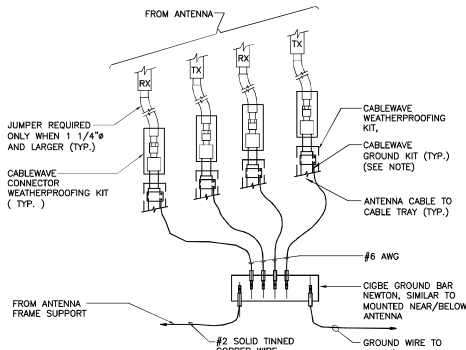
DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: B2/B66A RRH-BR049 (RFV01U-D1A)	B2: PCS (1900 MHz) B66: AWS (2100 MHz)	15.0"H x 15.0"W x 10.0"D	84.4 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

6 DUAL-BAND AWS/PCS RADIO UNIT DETAIL
C-3 NOT TO SCALE



DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: B5/B13 RRH-BR04C (RFV01U-D2A)	B5: 850 MHz B13: 700 MHz	15.0"H x 15.0"W x 8.1"D	70.3 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

7 DUAL-BAND 700/850 MHZ RADIO UNIT DETAIL
C-3 NOT TO SCALE



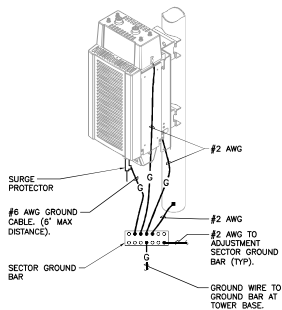
NOTES

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GIGBE

1 CONNECTION OF GROUND WIRES TO GROUND BAR

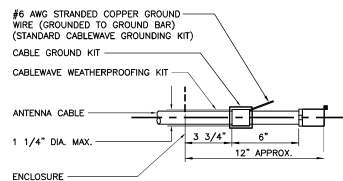
E-1 NOT TO SCALE

- EACH RRH CABINET SHALL BE GROUNDED IN THE FOLLOWING MANNER:
- AT TOP OF THE CABINET
 - AT RIGHT SIDE OF THE CABINET.



2 RRH POLE MOUNT GROUNDING

E-1 NOT TO SCALE

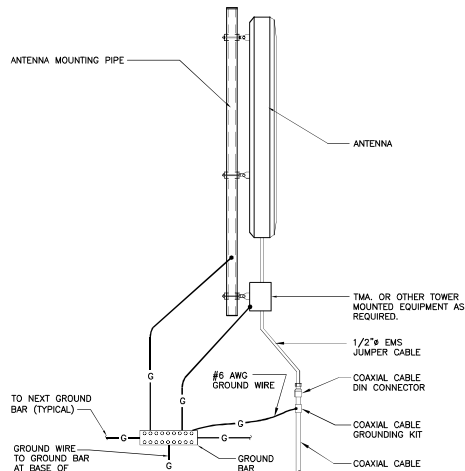


NOTES

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

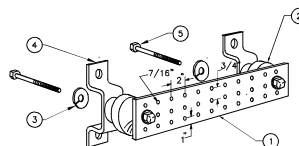
3 ANTENNA CABLE GROUNDING DETAIL

E-1 NOT TO SCALE



4 TYPICAL ANTENNA GROUNDING DETAIL

E-1 NOT TO SCALE



NOTES

- TINNED COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4.
- 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8.
- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056.
- 5/8-11 x 1" STAINLESS STEEL TRUSS SPANNER MACHINE SCREWS.

5 GROUND BAR DETAIL

E-1 NOT TO SCALE

ELECTRICAL SPECIFICATIONS

SECTION 16010

1.01. SCOPE OF WORK

- WORK SHALL INCLUDE ALL LABOR, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE (MAKE READY FOR OPERATION) ALL THE ELECTRICAL WORK INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

- CELLULAR GROUNDING SYSTEMS CONSISTING OF ANTENNA GROUNDING, GROUND BARS, ETC.

1.02. GENERAL REQUIREMENTS

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES AND REGULATIONS WHICH MAY APPLY AND NOTHING IN THE DRAWINGS OR SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION AND COORDINATION OF THE ENTIRE ELECTRICAL SERVICE. ALL ACTIVITIES TO BE COORDINATED THROUGH OWNERS REPRESENTATIVE, DESIGN ENGINEER AND OTHER AUTHORITIES HAVING JURISDICTION OF TRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAY ALL FEES THAT MAY BE REQUIRED FOR THE ELECTRICAL WORK AND FOR SCHEDULING OF ALL INSPECTIONS THAT MAY BE REQUIRED BY THE LOCAL AUTHORITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE BUILDING OWNER FOR NEW AND/OR DEMOLITION WORK INVOLVED.
- NO MATERIAL OTHER THAN THAT CONTAINED IN THE "LATEST LIST OF ELECTRICAL FITTINGS" APPROVED BY THE UNDERWRITERS' LABORATORIES, SHALL BE USED IN ANY PART OF THE WORK. ALL MATERIAL FOR WHICH LABEL SERVICE HAS BEEN ESTABLISHED SHALL BEAR THE U.L. LABEL.
- THE CONTRACTOR SHALL GUARANTEE ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE ACCEPTANCE DATE BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WARRANTIES FROM ALL EQUIPMENT MANUFACTURERS FOR SUBMISSION TO THE OWNER.
- DRAWINGS INDICATE GENERAL ARRANGEMENT OF WORK INCLUDED IN CONTRACT. CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE MODIFICATIONS TO THE LAYOUT OF THE WORK TO PREVENT CONFLICT WITH WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF WORK. CHECK ALL DRAWINGS AND VISIT JOB SITE TO VERIFY SPACE AND TYPE OF EXISTING CONDITIONS IN WHICH WORK WILL BE DONE, PRIOR TO SUBMITTAL OF BID.
- THE ELECTRICAL CONTRACTOR SHALL SUPPLY THREE (3) COMPLETE SETS OF APPROVED DRAWINGS, ENGINEERING DATA SHEETS, MAINTENANCE AND OPERATING INSTRUCTION MANUALS FOR ALL SYSTEMS AND THEIR RESPECTIVE EQUIPMENT. THESE MANUALS SHALL BE INSERTED IN VINYL COVERED 3-RING BINDERS AND TURNED OVER TO OWNER'S REPRESENTATIVE ONE (1) WEEK PRIOR TO FINAL PUNCH LIST.
- ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND WILL BE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
- ALL EQUIPMENT AND MATERIALS TO BE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED.
- BEFORE FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF PRINTS (AS-BUILTS), LEGIBLY MARKED IN RED PENCIL TO SHOW ALL CHANGES FROM THE ORIGINAL PLANS.
- ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH OWNER'S SPECIFICATIONS, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH APPROPRIATE INDIVIDUALS TO OBTAIN ALL SUCH SPECIFICATIONS AND REQUIREMENTS. NOTHING CONTAINED IN, OR OMITTED FROM, THESE DOCUMENTS SHALL RELIEVE CONTRACTOR FROM THIS OBLIGATION.

SECTION 16450

1.01. GROUNDING

- ALL NON-CURRENT CARRYING PARTS OF THE ELECTRICAL AND TELEPHONE CONDUIT SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONNECTED TO PROVIDE AN INDEPENDENT RETURN PATH TO THE EQUIPMENT GROUNDING SOURCES.
- GROUNDING SYSTEM WILL BE IN ACCORDANCE WITH THE LATEST ACCEPTABLE EDITION OF THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS PER LOCAL INSPECTOR HAVING JURISDICTION.
- EQUIPMENT GROUNDING CONDUCTOR:
 - EACH EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. ARTICLE 250-122.
 - THE MINIMUM SIZE OF EQUIPMENT GROUND CONDUCTOR SHALL BE #12 AWG COPPER.
- CELLULAR GROUNDING SYSTEM:
 - PROVIDE THE CELLULAR GROUNDING SYSTEM AS SPECIFIED ON DRAWINGS, INCLUDING, BUT NOT LIMITED TO:
 - GROUND BARS
 - ANTENNA GROUND CONNECTIONS AND PLATES.
- ALL EQUIPMENT SHALL BE BONDED TO GROUND AS REQUIRED BY N.E.C., MFG. SPECIFICATIONS, AND OWNER'S SPECIFICATIONS.

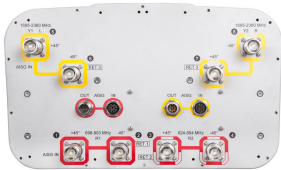
Cellco Partnership d/b/a Verizon Wireless ROXBURY CT 95 LOWER COUNTY ROAD, ROXBURY, CT 06783		DATE: 07/25/21 SCALE: AS NOTED JOB NO. 21007.14
ELECTRICAL DETAILS AND SPECIFICATIONS		E-1 Sheet No. 1 of 1

CONSULTING DRAWINGS - READY FOR CONSTRUCTION
 CONSTRUCTION DRAWINGS - UPDATED MASTER MOUNT ANALYSIS DATE
 CONSTRUCTION DRAWINGS - REVISED PER REVIEW RIFS
 CONSTRUCTION DRAWINGS - ISSUED FOR CLEAR REVIEW
 CONSTRUCTION DRAWINGS - ISSUED FOR CLEAR REVIEW

verizon

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 Connected on 100 Lines
 (203) 866-2500
 (203) 866-2507 Fax
 68-2 North Avon Road
 Meriden, CT 06460
 www.CenteKEng.com

JAHH-65C-R3B-V2



8-port sector antenna, 2x 698–803, 2x 824–894 and 4x 1695–2360 MHz, 65° HPBW, 3x RET and low bands have diplexers. Internal SBT's on first LB(Port 1) and first HB(Port 5)

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- One RET for 700MHz, one RET for 850MHz, and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO
- Internal filter on low band and interleaved dipole technology providing for attractive, low wind load mechanical package
- Separate RS-485 RET input/output for low and high band
- Supports re-configurable antenna sharing capability enabling control of the internal RET system using up to two separate RET compatible OEM radios

General Specifications

Antenna Type	Sector
Band	Multiband
Color	Light gray
Effective Projective Area (EPA), frontal	0.4 m² 4.306 ft²
Effective Projective Area (EPA), lateral	0.34 m² 3.66 ft²
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
Radome Material	Fiberglass, UV resistant
Radiator Material	Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	4.3-10 Female
RF Connector Location	Bottom
RF Connector Quantity, high band	4
RF Connector Quantity, low band	4
RF Connector Quantity, total	8

Remote Electrical Tilt (RET) Information, General

RET Hardware	CommRET v2
RET Interface	8-pin DIN Female 8-pin DIN Male

JAAHH-65C-R3B-V2

RET Interface, quantity

2 female | 2 male

Dimensions

Width

350 mm | 13.78 in

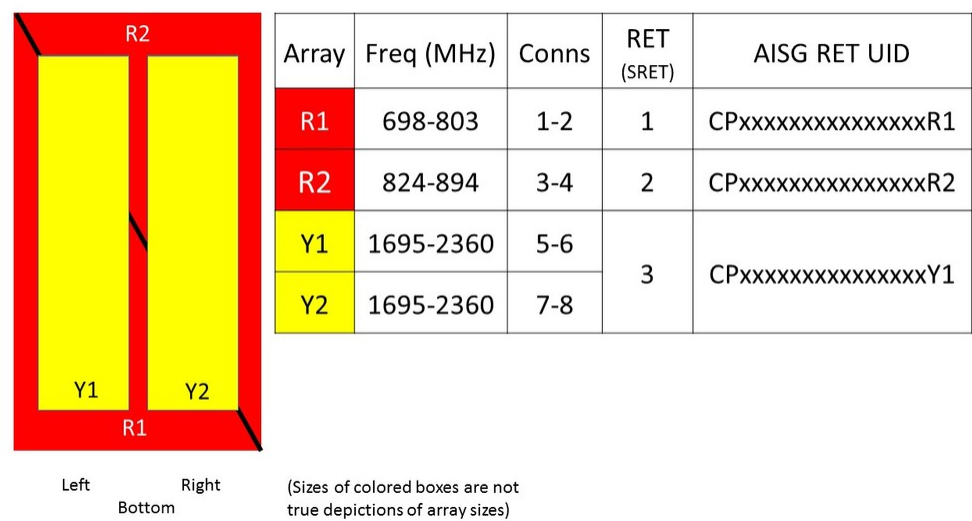
Depth

208 mm | 8.189 in

Length

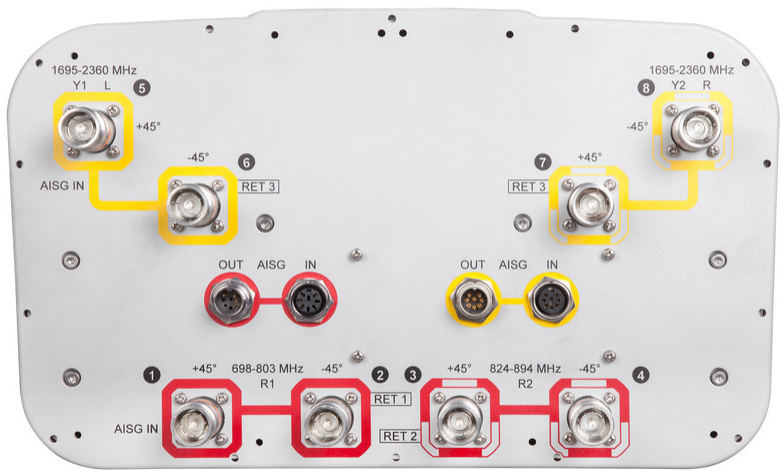
2438 mm | 95.984 in

Array Layout



Port Configuration

JAHH-65C-R3B-V2



Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz 698 – 803 MHz 824 – 894 MHz
Polarization	±45°
Total Input Power, maximum	800 W @ 50 °C

Remote Electrical Tilt (RET) Information, Electrical

Protocol	3GPP/AISG 2.0 (Single RET)
Power Consumption, idle state, maximum	1 W
Power Consumption, normal conditions, maximum	8 W
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 Port 5
Internal RET	High band (1) Low band (2)

Electrical Specifications

Frequency Band, MHz	698–803	824–894	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	15.6	16.1	18.2	18.6	18.8	18.9
Beamwidth, Horizontal, degrees	67	64	62	60	61	63

JAHH-65C-R3B-V2

Beamwidth, Vertical, degrees	9.9	8.4	5.6	5.2	4.9	4.5
Beam Tilt, degrees	0–11	0–11	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	22	23	18	18	18	18
Front-to-Back Ratio at 180°, dB	33	31	30	34	37	35
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	200	200	250	250	250	200

Electrical Specifications, BASTA

Frequency Band, MHz	698–803	824–894	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	15.2	15.9	17.6	18.4	18.5	18.5
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.7	±0.4	±0.5	±0.6
Gain by Beam Tilt, average, dBi	0° 15.1 5° 15.3 11° 15.2	0° 15.6 5° 16.0 11° 15.9	0° 17.4 5° 17.7 10° 17.5	0° 18.1 5° 18.5 10° 18.4	0° 18.1 5° 18.6 10° 18.4	0° 18.1 5° 18.7 10° 18.3
Beamwidth, Horizontal Tolerance, degrees	±0.9	±1.6	±3.5	±2.5	±2.7	±4.1
Beamwidth, Vertical Tolerance, degrees	±0.5	±0.4	±0.3	±0.2	±0.3	±0.3
USLS, beampeak to 20° above beampeak, dB	16	14	15	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	26	23	25	30	28	29
CPR at Boresight, dB	22	22	21	24	22	22
CPR at Sector, dB	12	11	10	13	12	7

Mechanical Specifications

Wind Loading at Velocity, frontal	425.0 N @ 150 km/h 95.5 lbf @ 150 km/h
Wind Loading at Velocity, lateral	361.0 N @ 150 km/h 81.2 lbf @ 150 km/h
Wind Loading at Velocity, maximum	202.3 lbf @ 150 km/h 900.0 N @ 150 km/h
Wind Loading at Velocity, rear	101.4 lbf @ 150 km/h 451.0 N @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

JAHH-65C-R3B-V2

Packaging and Weights

Width, packed	456 mm 17.953 in
Depth, packed	357 mm 14.055 in
Length, packed	2585 mm 101.772 in
Net Weight, without mounting kit	36.1 kg 79.587 lb
Weight, gross	51.1 kg 112.656 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted



Included Products

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

Performance Note	Severe environmental conditions may degrade optimum performance
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SAMSUNG

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

RFV01U-D1A

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



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

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

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

Features and Benefits

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

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

SAMSUNG

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

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



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

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

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

Features and Benefits

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

Key Technical Specifications

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

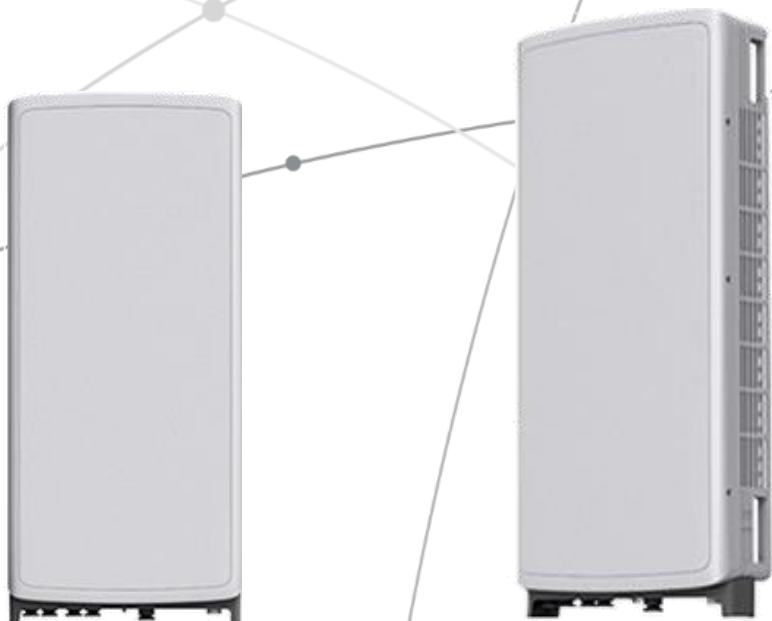
SAMSUNG

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A



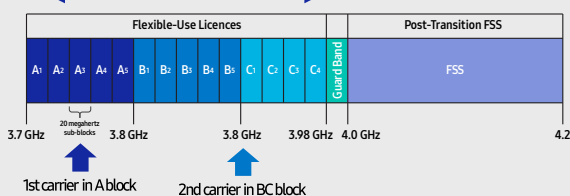
Points of Differentiation

Wide Bandwidth

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

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

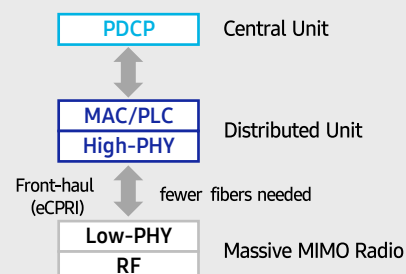
C-Band spectrum supported by Massive MIMO Radio



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.

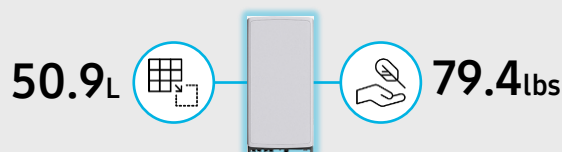
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

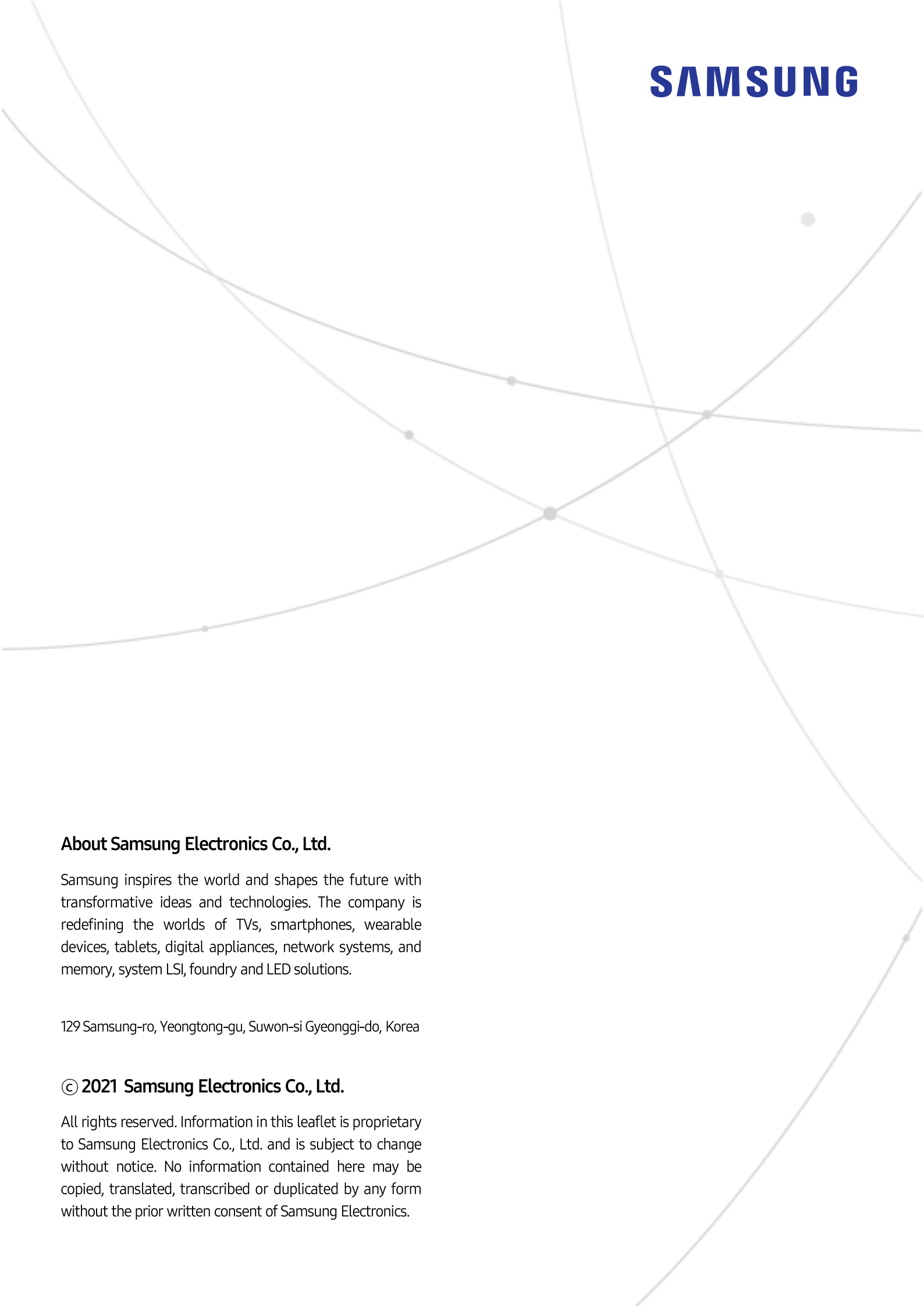
Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. Despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

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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ATTACHMENT 3

	General	Power	Density					
Site Name: Roxbury								
Tower Height: Verizon @ 164ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.EXP.	FRACTION MPE	Total
*Town	1	90	151	154	0.001539397	0.2	0.08%	
*Town	1	45	145	156	0.000837581	0.2	0.04%	
*Town	1	2	50	458.4	0.000371508	0.3056	0.01%	
*Alltel	4	250	120	1945	0.027671603	1	0.28%	
*Alltel/CDMA	1	285.098	119	878	0.008029367	0.585333333	0.14%	
*T-Mobile	4	1028	177	1900	0.050571392	1	0.51%	
*T-Mobile	2	2057	177	1900	0.050595989	1	0.51%	
*T-Mobile	2	2308	177	2100	0.056769831	1	0.57%	
*T-Mobile	2	592	177	600	0.014561413	0.4	0.36%	
*T-Mobile	1	1578	177	600	0.0194	0.4000	0.49%	
*T-Mobile	2	695	177	700	0.0171	0.4667	0.37%	
*T-Mobile	2	2105	177	1900	0.0518	1.0000	0.52%	
*T-Mobile	1	19239	177	2500	0.2366	1.0000	2.37%	
*T-Mobile	1	19239	177	2500	0.2366	1.0000	2.37%	
*AT&T	1	572	130	700	0.0134	0.4667	0.29%	
*AT&T	1	546	130	850	0.0128	0.5667	0.23%	
*AT&T	2	1092	130	850	0.0511	0.5667	0.90%	
*AT&T	4	4066	130	1900	0.3804	1.0000	3.80%	
*AT&T	4	4777	130	2100	0.4469	1.0000	4.47%	
*AT&T	4	2085	130	700	0.1951	0.4667	4.18%	
*AT&T	2	546	130	850	0.0255	0.5667	0.45%	
VZW 700	4	584	164	751	0.0031	0.5007	0.62%	
VZW CDMA	2	424	164	878.49	0.0011	0.5857	0.19%	
VZW Cellular	4	643	164	874	0.0034	0.5827	0.59%	
VZW PCS	4	1207	164	1975	0.0065	1.0000	0.65%	
VZW AWS	4	1220	164	2120	0.0065	1.0000	0.65%	
VZW CBAND	4	6531	164	3730.08	0.0349	1.0000	3.49%	
								29.11%
* Source: Siting Council								

ATTACHMENT 4



Tower Engineering Solutions

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

Structural Analysis Report

Existing 180 ft Nudd Corporation Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT46125-A

Customer Site Name: Roxbury-lower County Rd

Carrier Name: Verizon (App#: 152547-2)

Carrier Site ID / Name: 468203 / ROXBURY CT

Site Location: Lower County Road

Roxbury, Connecticut

Litchfield County

Latitude: 41.559528

Longitude: -73.292305

Analysis Result:

Max Structural Usage: 88.0% [Pass]

Max Foundation Usage: 69.9% [Pass]

Additional Usage Caused by Mount Modification: +1.0%



Report Prepared By: Mohammed Al Rubaye



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Additional Usage Caused by Mount Modification:

Report Prepared By: Mohammed Al Rubaye

Introduction

The purpose of this report is to summarize the analysis results on the 180 ft Nudd Corporation 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	Fred A. Nudd Corporation, Dwg # 99-7018-1R, dated 10/12/99
Foundation Drawing	Fred A. Nudd Corporation, Dwg # 99-7018-2R, dated 10/12/99
Geotechnical Report	Tectonic Engineering Consultants P.C, Project # 1170.C056, 8/4/99
Modification Drawings	URS, Job # VZ1-052/F04, dated 11/20/03
Mount Analysis	Maser Consulting Connecticut Project #: 21777244A Rev. 2. Dated
Mount Modification Drawings	Maser Consulting, Project #: 21777244A Rev.1, Dated July 16, 2021

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-

In accordance with this standard, the structure was analyzed using **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 $V_{ult} = 120.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 93.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	
Structure Class:	
Topographic Category:	
Crest Height:	0 ft
Seismic Parameters:	

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			10' Dipole	Pipe Mount		Town of Roxbury
			5' Omni - Whip	Pipe Mount		
			Ericsson AIR32 KRD901146-1_B66A_B2A (Octo) - Panel	(3) 12' 6" Heavy Duty V-Frames w/ Stiff Arms (Site Pro VFA12-HD)	(3) 2" Hybrid	T-Mobile Sprint
			RFS APXVAALL24_43-U-NA20 - Panel			
			Ericsson AIR6449 B41 - Panel			
			Ericsson 4415 B25 RRU's			
			ALU 800 MHz RRH's			
			Ericsson 4449 B71 + B85 RRU's			
			BXA-70063-6CF-2 - Panel	(3) Sector Frame		Verizon
			LPA-80080-6CF - Panel			
			BXA-171085-8CF-2 - Panel			
			18' Dipole	(2) Side Arms		Town of Roxbury
			10' Dipole			
			Powerwave 7770 - Panel	(3) Sector Frame w/ (2) New 2" std pipe brace per each sector frame & (2) L3x3x1/4 angles per each Stand-Off Reinforcement	(1) 7/16" Fiber (1) 3" Conduit (Housing (1) 7/16" fiber & (2) 3/4" DC)	
			CCI DMP65R-BU6DA - Panel			
			CCI OPA65R-BU6DA - Panel			
			CCI DMP65R-BU8DA - Panel			
			CCI OPA65R-BU8DA - Panel			
			Powerwave 7020.00 RET			
			Ericsson RRUS 4478 B14			
			Ericsson 4449 B5/B12			
			Ericsson RRUS 8843 B2 B66A			
			Raycap DC6-48-60-18-8F			
			Yagi	Leg		Town of Roxbury

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

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Samsung MT6407-77A - Panel	(3) Sector Frames w/ Mods [Handrail Kit (6) V-Bracing Kit & (3) Tiebacks]	Hybrid	Verizon
			Andrew JAHH-65-R38 - Panel			
			Commscope CBC78T-DS-43/E14F05P19 - Diplexer			
			Commscope TD-850B-LTE78-43 - Diplexer			
			Samsung B2/B66A RRH-BR049 - RRU			
			Samsung B5/B13 RRH-BR04C - RRU			
			RFS DB-C1-12C-24AB0Z - OVP Box			

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:			
Pass/Fail	Pass	Pass	Pass

Foundations

	Compression (Kips)	Uplift (Kips)	Shear (Kips)
Analysis Reactions			

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.1579 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

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

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

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

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

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

Structure: CT46125-A-SBA

Site Name: Roxbury-lower County Rd

Code: EIA/TIA-222-G

9/2/2021

Type: Self Support

Base Shape: Square

Basic WS: 93.00

Height: 180.00 (ft)

Base Width: 20.00

Basic Ice WS: 50.00

Base Elev: 0.00 (ft)

Top Width: 5.00

Operational WS: 60.00

Page: 1



Section Properties

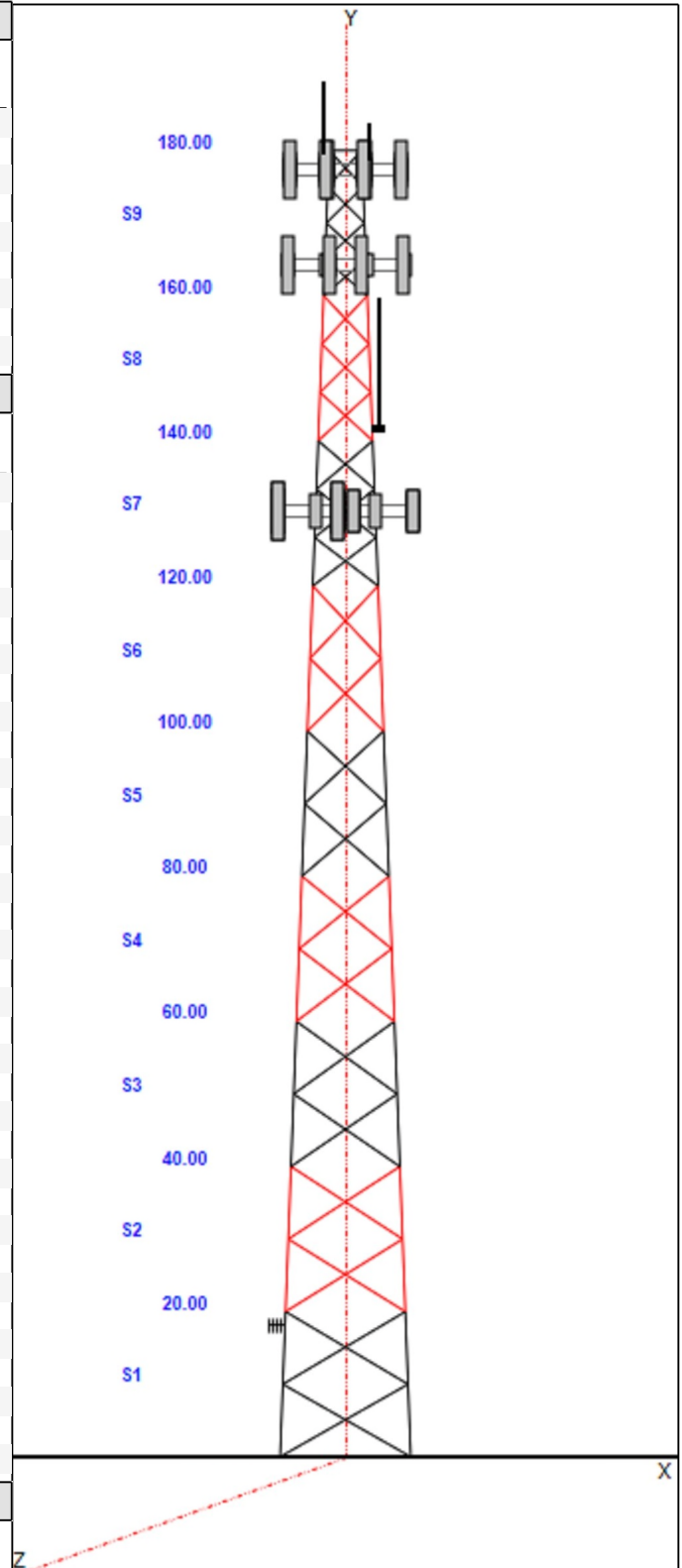
Sect	Leg Members	Diagonal Members	Horizontal Members
1	PST 8" DIA PIPE	SAE 5X5X0.3125	
2	PST 8" DIA PIPE	SAE 4X4X0.375	
3	PST 8" DIA PIPE	SAE 4X4X0.25	
4	PST 6" DIA PIPE	SAE 4X4X0.25	
5	PST 6" DIA PIPE	SAE 3.5X3.5X0.25	
6	PST 5" DIA PIPE	SAE 3.5X3.5X0.25	
7	PST 3-1/2" DIA PIPE	SAE 3X3X0.1875	
8	PST 3" DIA PIPE	SAE 2.5X2.5X0.1875	
9	PST 2-1/2" DIA PIPE	SAE 1.75X1.75X0.1875	SAE 1.75X1.75X0.1875

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description
179.25	184.25	1	10' Dipole
178.50	181.00	1	5' Omni
177.00	177.00	3	Ericsson AIR32 KRD901146-1_B66A_B2A (Octo)
177.00	177.00	3	RFS APXVAALL24_43-U-NA20
177.00	177.00	3	Ericsson AIR6449 B41
177.00	177.00	3	Ericsson 4415 B25 RRU's
177.00	177.00	6	ALU 800 MHz RRH's
177.00	177.00	3	Ericsson 4449 B71 + B85 RRU's
177.00	177.00	1	Heavy Duty V-Frame w/ Stiff Arms (VFA12-HD)
164.00	164.00	3	Sector Frame
164.00	164.00	3	Samsung MT6407-77A
164.00	164.00	6	Andrew JAHH-65-R38
164.00	164.00	3	Commscope CBC78T-DS-43/E14F05P
164.00	164.00	3	Commscope TD-850B-LTE78-43
164.00	164.00	3	Samsung B2/B66A RRH-BR049
164.00	164.00	3	Samsung B5/B13 RRH-BR04C
164.00	164.00	1	RFS DB-C1-12C-24AB0Z
164.00	164.00	1	(3) HR w/ Double V-Brace Kits
164.00	164.00	1	(3) Stabilizer Kit (12' FW)
141.50	150.50	1	18' Dipole
141.50	146.50	1	10' Dipole
141.50	141.50	2	Side Arm
130.00	130.00	3	Sector Frame
130.00	130.00	1	DMP65R-BU8DA
130.00	130.00	1	OPA65R-BU8DA
130.00	130.00	3	RRUS 8843 B2 B66A
130.00	130.00	3	7020.00 RET
130.00	130.00	3	4449 B5/B12
130.00	130.00	3	RRUS 4478 B14
130.00	130.00	2	DC6-48-60-18-8F
130.00	130.00	1	Mount Reinforcement
130.00	130.00	3	7770
130.00	130.00	2	DMP65R-BU6DA
130.00	130.00	2	OPA65R-BU6DA
18.00	18.00	1	Yagi

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Qty	Description
0.00	180.00	1	W/G Ladder
0.00	179.25	1	1/2" Coax



Structure: CT46125-A-SBA

Site Name: Roxbury-lower County Rd	Code: EIA/TIA-222-G	9/2/2021
Type: Self Support	Base Shape: Square	Basic WS: 93.00
Height: 180.00 (ft)	Base Width: 20.00	Basic Ice WS: 50.00
Base Elev: 0.00 (ft)	Top Width: 5.00	Operational WS: 60.00



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0.00	178.50	1	7/8" Coax
0.00	177.00	3	2" Hybrid
0.00	164.00	6	1 5/8" Coax
0.00	164.00	1	1 5/8" Hybrid
0.00	164.00	1	W/G Ladder
0.00	141.50	1	1/2" Coax
0.00	141.50	1	1/2" Coax
0.00	130.00	6	1 5/8" Coax
0.00	130.00	1	3" Conduit
0.00	130.00	2	3/4" DC
0.00	130.00	1	7/16" Fiber
0.00	130.00	1	W/G Ladder
0.00	18.00	1	1/2" Coax

Base Reactions

Leg	Overturning
Max Uplift: -189.61 (kips)	Moment: 5539.22 (ft-kips)
Max Down: 205.35 (kips)	Total Down: 55.60 (kips)
Max Shear: 21.30 (kips)	Total Shear: 53.81 (kips)

Structure: CT46125-A-SBA

Site Name: Roxbury-lower County Rd

Code: EIA/TIA-222-G

9/2/2021

Type: Self Support

Base Shape: Square

Basic WS: 93.00

Height: 180.00 (ft)

Base Width: 20.00

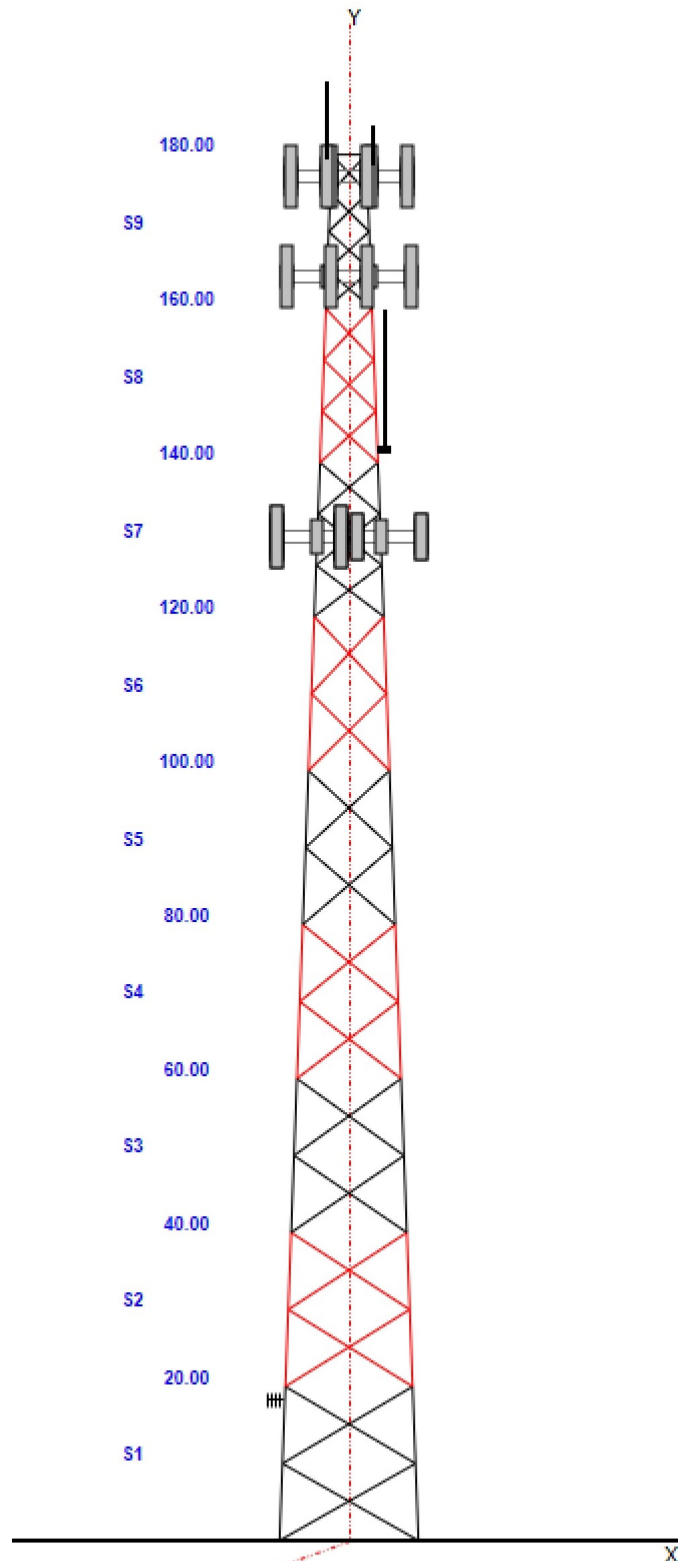
Basic Ice WS: 50.00

Base Elev: 0.00 (ft)

Top Width: 5.00

Operational WS: 60.00

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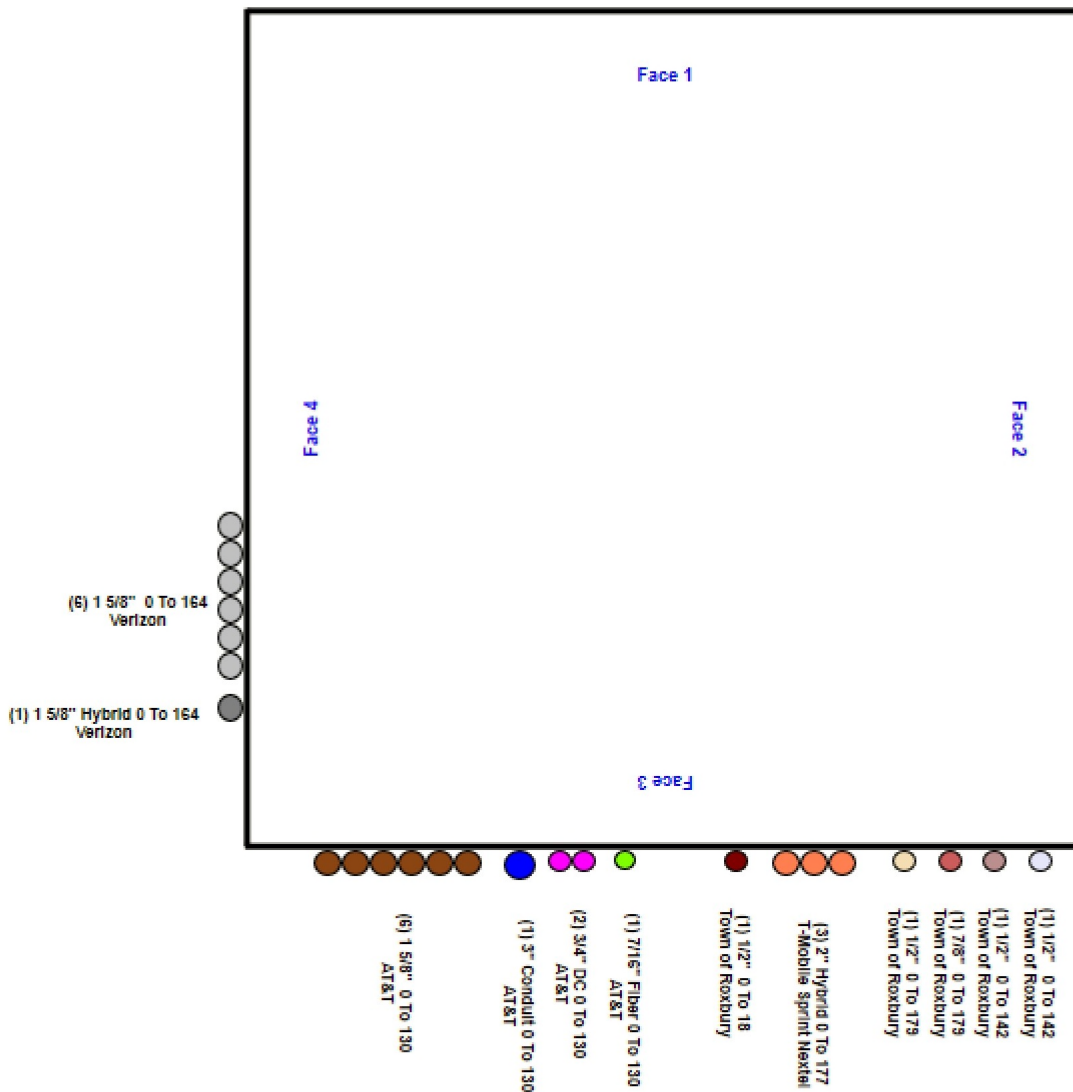


Structure: CT46125-A-SBA - Coax Line Placement

Type: Self Support
Site Name: Roxbury-lower County Rd
Height: 180.00 (ft)

9/2/2021

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Loading Summary

Structure: CT46125-A-SBA	Code: EIA/TIA-222-G	9/2/2021
Site Name: Roxbury-lower County Rd	Exposure: C	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 5



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)							
179.25	10' Dipole	1	30.00	3.760	142.99	9.836	120.000	3.000	3.000	1.00	1.00	5.000	
178.50	5' Omni	1	10.00	1.000	37.79	2.390	60.000	2.000	2.000	1.00	1.00	2.500	
177.00	Ericsson AIR32	3	132.20	6.510	318.18	7.647	56.600	12.900	8.700	0.80	0.86	0.000	
177.00	RFS APXVAALL24_43-U-NA20	3	122.80	20.240	556.57	22.165	95.900	24.000	8.500	0.80	0.72	0.000	
177.00	Ericsson AIR6449 B41	3	103.00	5.650	241.85	6.612	33.100	20.500	8.300	0.80	0.71	0.000	
177.00	Ericsson 4415 B25 RRU's	3	46.00	1.840	87.62	2.425	16.500	13.400	5.900	0.80	0.67	0.000	
177.00	ALU 800 MHz RRH's	6	53.00	2.130	102.08	2.732	19.700	13.000	10.800	0.80	0.67	0.000	
177.00	Ericsson 4449 B71 + B85 RRU's	3	75.00	1.950	128.02	2.570	17.900	13.100	10.600	0.80	0.67	0.000	
177.00	Heavy Duty V-Frame w/ Stiff Arms	1	2322.0	50.700	4619.92	115.21	0.000	0.000	0.000	0.75	1.00	0.000	
164.00	Sector Frame	3	500.00	17.500	1206.88	31.602	0.000	0.000	0.000	0.75	0.75	0.000	
164.00	Samsung MT6407-77A	3	79.40	4.690	200.77	5.650	35.100	16.100	5.500	0.80	0.70	0.000	
164.00	Andrew JAHH-65-R38	6	80.20	12.810	383.39	14.461	95.700	13.800	8.200	0.80	0.83	0.000	
164.00	Commscope	3	10.40	0.370	31.53	0.657	6.400	6.900	4.800	0.80	0.67	0.000	
164.00	Commscope TD-850B-LTE78-43	3	36.40	1.430	75.25	1.963	12.600	13.600	5.700	0.80	0.67	0.000	
164.00	Samsung B2/B66A RRH-BR049	3	84.40	1.870	162.16	2.451	15.000	15.000	10.000	0.80	0.67	0.000	
164.00	Samsung B5/B13 RRH-BR04C	3	70.30	1.870	140.76	2.451	15.000	15.000	8.100	0.80	0.67	0.000	
164.00	RFS DB-C1-12C-24AB0Z	1	32.00	4.060	147.36	4.892	29.500	16.500	12.500	1.00	1.00	0.000	
164.00	(3) HR w/ Double V-Brace Kits	1	650.00	15.500	1477.05	31.935	0.000	0.000	0.000	0.75	1.00	0.000	
164.00	(3) Stabilizer Kit (12' FW)	1	180.00	6.100	409.03	12.568	0.000	0.000	0.000	0.75	1.00	0.000	
141.50	18' Dipole	1	55.00	6.770	251.89	17.327	216.000	3.000	3.000	1.00	1.00	9.000	
141.50	10' Dipole	1	30.00	3.760	140.00	9.675	120.000	3.000	3.000	1.00	1.00	5.000	
141.50	Side Arm	2	120.00	3.000	223.23	6.448	0.000	0.000	0.000	0.90	0.90	0.000	
130.00	Sector Frame	3	500.00	17.500	1188.17	31.229	0.000	0.000	0.000	0.75	0.75	0.000	
130.00	DMP65R-BU8DA	1	96.00	17.870	447.06	19.899	96.000	20.700	7.700	0.80	0.73	0.000	
130.00	OPA65R-BU8DA	1	76.50	18.090	367.05	20.742	96.000	21.000	7.800	0.80	0.73	0.000	
130.00	RRUS 8843 B2 B66A	3	72.00	1.640	118.18	2.130	14.900	13.200	10.900	0.80	0.67	0.000	
130.00	7020.00 RET	3	2.20	0.400	12.28	0.877	4.900	8.300	2.400	0.80	0.67	0.000	
130.00	4449 B5/B12	3	71.00	1.970	123.62	2.510	17.900	13.200	9.400	0.80	0.67	0.000	
130.00	RRUS 4478 B14	3	59.40	1.650	100.28	2.161	15.000	13.200	7.300	0.80	0.67	0.000	
130.00	DC6-48-60-18-8F	2	31.80	0.920	92.75	1.352	24.000	11.000	11.000	0.90	0.90	0.000	
130.00	Mount Reinforcement	1	650.00	15.500	1455.16	31.500	0.000	0.000	0.000	0.75	1.00	0.000	
130.00	7770	3	35.00	5.500	167.82	6.549	55.000	11.000	5.000	0.80	0.73	0.000	
130.00	DMP65R-BU6DA	2	79.40	12.710	369.76	14.153	71.200	20.700	7.700	0.80	0.73	0.000	
130.00	OPA65R-BU6DA	2	63.30	12.800	346.09	14.176	71.200	20.700	7.700	0.80	0.73	0.000	
18.00	Yagi	1	5.00	1.310	36.73	3.246	24.000	24.000	2.000	1.00	1.00	0.000	
Totals:		83	11,523.20		29,088.28		Number of Appurtenances :						35

Loading Summary

Structure: CT46125-A-SBA	Code: EIA/TIA-222-G	9/2/2021
Site Name: Roxbury-lower County Rd	Exposure: C	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



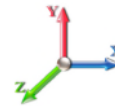
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Linear Appurtenances Properties

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	W/G Ladder	1	2.00	6.00	100.00	3	Individual NR		N	1.00	1.00	
0.00	179.25	1/2" Coax	1	0.65	0.16	100.00	3	Individual NR		N	1.00	1.00	
0.00	178.50	7/8" Coax	1	1.11	0.52	100.00	3	Individual NR		N	1.00	1.00	
0.00	177.00	2" Hybrid	3	2.00	1.61	100.00	3	Individual IR		N	1.00	1.00	
0.00	164.00	1 5/8" Coax	6	1.98	1.04	100.00	4	Individual IR		N	1.00	1.00	
0.00	164.00	1 5/8" Hybrid	1	2.00	1.10	100.00	4	Individual IR		N	1.00	1.00	
0.00	164.00	W/G Ladder	1	2.00	6.00	100.00	4	Individual NR		N	1.00	1.00	
0.00	141.50	1/2" Coax	1	0.65	0.16	100.00	3	Individual NR		N	1.00	1.00	
0.00	141.50	1/2" Coax	1	0.65	0.16	100.00	3	Individual NR		N	1.00	1.00	
0.00	130.00	1 5/8" Coax	6	1.98	1.04	100.00	3	Individual IR		N	1.00	1.00	
0.00	130.00	3" Conduit	1	3.00	1.78	100.00	3	Individual NR		N	1.00	1.00	
0.00	130.00	3/4" DC	2	0.75	0.40	100.00	3	Individual IR		N	1.00	1.00	
0.00	130.00	7/16" Fiber	1	0.44	0.10	100.00	3	Individual NR		N	1.00	1.00	
0.00	130.00	W/G Ladder	1	2.00	6.00	100.00	3	Individual NR		N	1.00	1.00	
0.00	18.00	1/2" Coax	1	0.65	0.16	100.00	3	Individual NR		N	1.00	1.00	

Section Forces

Structure: CT46125-A-SBA **Code:** EIA/TIA-222-G 9/2/2021
Site Name: Roxbury-lower County Rd **Exposure:** C
Height: 180.00 (ft) **Crest Height:** 0.00
Base Elev: 0.000 (ft) **Site Class:** D - Stiff Soil
Gh: 0.85 **Topography:** 1 **Struct Class:** II Page: 7



Load Case: 1.2D + 1.6W Normal Wind 1.2D + 1.6W 93 mph Wind at Normal To Face
Wind Load Factor: 1.60 **Wind Importance Factor:** 1.00
Dead Load Factor: 1.20
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	16.00	34.841	28.80	0.00	0.16	3.16	1.00	1.00	0.00	47.36	77.24	0.00	7,987.4	0.0	3254.04	1314.38	4,568.42
2	30.0	18.49	25.923	28.80	0.00	0.15	3.20	1.00	1.00	0.00	37.98	76.27	0.00	7,501.2	0.0	3059.85	1501.23	4,561.09
3	50.0	20.59	24.019	28.80	0.00	0.16	3.16	1.00	1.00	0.00	36.22	76.27	0.00	6,081.6	0.0	3204.65	1671.68	4,876.33
4	70.0	22.10	22.338	22.12	0.00	0.15	3.20	1.00	1.00	0.00	32.47	76.27	0.00	4,984.7	0.0	3122.56	1794.39	4,916.96
5	90.0	23.30	18.040	22.12	0.00	0.15	3.19	1.00	1.00	0.00	28.05	76.27	0.00	4,569.9	0.0	2831.94	1891.89	4,723.83
6	110.0	24.30	16.644	18.58	0.00	0.16	3.18	1.00	1.00	0.00	25.75	76.27	0.00	4,010.9	0.0	2704.59	1973.52	4,678.11
7	130.0	25.17	16.479	13.36	0.00	0.16	3.17	1.00	1.00	0.00	23.83	60.58	0.00	2,871.0	0.0	2588.31	1630.21	4,218.52
8	150.0	25.94	12.181	11.69	0.00	0.15	3.19	1.00	1.00	0.00	18.82	42.90	0.00	2,213.9	0.0	2117.92	1202.55	3,320.46
9	170.0	26.63	9.381	9.60	0.00	0.16	3.18	1.00	1.00	0.00	14.84	19.88	0.00	1,555.7	0.0	1706.59	588.04	2,294.64
														41,776.1	0.0			38,158.37

Load Case: 1.2D + 1.6W 45° Wind 1.2D + 1.6W 93 mph Wind at 45° From Face
Wind Load Factor: 1.60 **Wind Importance Factor:** 1.00
Dead Load Factor: 1.20
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	16.00	34.841	28.80	0.00	0.16	3.16	1.12	1.12	0.00	53.04	77.24	0.00	7,987.4	0.0	3644.58	1314.38	4,958.96
2	30.0	18.49	25.923	28.80	0.00	0.15	3.20	1.11	1.11	0.00	42.26	76.27	0.00	7,501.2	0.0	3404.51	1501.23	4,905.74
3	50.0	20.59	24.019	28.80	0.00	0.16	3.16	1.12	1.12	0.00	40.55	76.27	0.00	6,081.6	0.0	3588.13	1671.68	5,259.81
4	70.0	22.10	22.338	22.12	0.00	0.15	3.20	1.11	1.11	0.00	36.15	76.27	0.00	4,984.7	0.0	3476.27	1794.39	5,270.66
5	90.0	23.30	18.040	22.12	0.00	0.15	3.19	1.12	1.12	0.00	31.28	76.27	0.00	4,569.9	0.0	3158.72	1891.89	5,050.61
6	110.0	24.30	16.644	18.58	0.00	0.16	3.18	1.12	1.12	0.00	28.76	76.27	0.00	4,010.9	0.0	3020.78	1973.52	4,994.30
7	130.0	25.17	16.479	13.36	0.00	0.16	3.17	1.12	1.12	0.00	26.64	60.58	0.00	2,871.0	0.0	2893.15	1630.21	4,523.36
8	150.0	25.94	12.181	11.69	0.00	0.15	3.19	1.11	1.11	0.00	20.98	42.90	0.00	2,213.9	0.0	2361.20	1202.55	3,563.75
9	170.0	26.63	9.381	9.60	0.00	0.16	3.18	1.12	1.12	0.00	16.57	19.88	0.00	1,555.7	0.0	1906.61	588.04	2,494.65
														41,776.1	0.0			41,021.84

Section Forces

Structure: CT46125-A-SBA **Code:** EIA/TIA-222-G 9/2/2021
Site Name: Roxbury-lower County Rd **Exposure:** C
Height: 180.00 (ft) **Crest Height:** 0.00
Base Elev: 0.000 (ft) **Site Class:** D - Stiff Soil
Gh: 0.85 **Topography:** 1 **Struct Class:** II Page: 8



Load Case: 0.9D + 1.6W Normal Wind 0.9D + 1.6W 93 mph Wind at Normal To 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 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	16.00	34.841	28.80	0.00	0.16	3.16	1.00	1.00	0.00	47.36	77.24	0.00	5,990.5	0.0	3254.04	1314.38	4,568.42
2	30.0	18.49	25.923	28.80	0.00	0.15	3.20	1.00	1.00	0.00	37.98	76.27	0.00	5,625.9	0.0	3059.85	1501.23	4,561.09
3	50.0	20.59	24.019	28.80	0.00	0.16	3.16	1.00	1.00	0.00	36.22	76.27	0.00	4,561.2	0.0	3204.65	1671.68	4,876.33
4	70.0	22.10	22.338	22.12	0.00	0.15	3.20	1.00	1.00	0.00	32.47	76.27	0.00	3,738.5	0.0	3122.56	1794.39	4,916.96
5	90.0	23.30	18.040	22.12	0.00	0.15	3.19	1.00	1.00	0.00	28.05	76.27	0.00	3,427.4	0.0	2831.94	1891.89	4,723.83
6	110.0	24.30	16.644	18.58	0.00	0.16	3.18	1.00	1.00	0.00	25.75	76.27	0.00	3,008.2	0.0	2704.59	1973.52	4,678.11
7	130.0	25.17	16.479	13.36	0.00	0.16	3.17	1.00	1.00	0.00	23.83	60.58	0.00	2,153.2	0.0	2588.31	1630.21	4,218.52
8	150.0	25.94	12.181	11.69	0.00	0.15	3.19	1.00	1.00	0.00	18.82	42.90	0.00	1,660.4	0.0	2117.92	1202.55	3,320.46
9	170.0	26.63	9.381	9.60	0.00	0.16	3.18	1.00	1.00	0.00	14.84	19.88	0.00	1,166.8	0.0	1706.59	588.04	2,294.64
														31,332.1	0.0			38,158.37

Load Case: 0.9D + 1.6W 45° Wind 0.9D + 1.6W 93 mph Wind at 45° 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 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	16.00	34.841	28.80	0.00	0.16	3.16	1.12	1.12	0.00	53.04	77.24	0.00	5,990.5	0.0	3644.58	1314.38	4,958.96
2	30.0	18.49	25.923	28.80	0.00	0.15	3.20	1.11	1.11	0.00	42.26	76.27	0.00	5,625.9	0.0	3404.51	1501.23	4,905.74
3	50.0	20.59	24.019	28.80	0.00	0.16	3.16	1.12	1.12	0.00	40.55	76.27	0.00	4,561.2	0.0	3588.13	1671.68	5,259.81
4	70.0	22.10	22.338	22.12	0.00	0.15	3.20	1.11	1.11	0.00	36.15	76.27	0.00	3,738.5	0.0	3476.27	1794.39	5,270.66
5	90.0	23.30	18.040	22.12	0.00	0.15	3.19	1.12	1.12	0.00	31.28	76.27	0.00	3,427.4	0.0	3158.72	1891.89	5,050.61
6	110.0	24.30	16.644	18.58	0.00	0.16	3.18	1.12	1.12	0.00	28.76	76.27	0.00	3,008.2	0.0	3020.78	1973.52	4,994.30
7	130.0	25.17	16.479	13.36	0.00	0.16	3.17	1.12	1.12	0.00	26.64	60.58	0.00	2,153.2	0.0	2893.15	1630.21	4,523.36
8	150.0	25.94	12.181	11.69	0.00	0.15	3.19	1.11	1.11	0.00	20.98	42.90	0.00	1,660.4	0.0	2361.20	1202.55	3,563.75
9	170.0	26.63	9.381	9.60	0.00	0.16	3.18	1.12	1.12	0.00	16.57	19.88	0.00	1,166.8	0.0	1906.61	588.04	2,494.65
														31,332.1	0.0			41,021.84

Section Forces

Structure: CT46125-A-SBA **Code:** EIA/TIA-222-G 9/2/2021
Site Name: Roxbury-lower County Rd **Exposure:** C
Height: 180.00 (ft) **Crest Height:** 0.00
Base Elev: 0.000 (ft) **Site Class:** D - Stiff Soil
Gh: 0.85 **Topography:** 1 **Struct Class:** II **Page:** 9



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

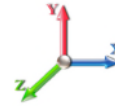
Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	4.62	34.841	56.88	28.08	0.23	2.86	1.00	1.00	1.33	67.83	134.41	30.62	15,910.	7922.8	763.10	615.62	1,378.72
2	30.0	5.34	25.923	58.69	29.89	0.23	2.86	1.00	1.00	1.49	59.97	137.55	29.72	15,359.	7858.0	778.59	722.24	1,500.83
3	50.0	5.95	24.019	58.77	29.97	0.25	2.79	1.00	1.00	1.56	58.35	139.63	31.27	14,158.	8076.6	823.25	817.79	1,641.05
4	70.0	6.39	22.338	51.62	29.50	0.25	2.79	1.00	1.00	1.62	52.50	141.06	32.34	12,803.	7819.0	794.51	890.77	1,685.28
5	90.0	6.73	18.040	50.90	28.78	0.26	2.74	1.00	1.00	1.66	47.93	136.63	38.69	12,031.	7461.6	752.12	945.67	1,697.80
6	110.0	7.02	16.644	46.51	27.94	0.27	2.69	1.00	1.00	1.69	44.13	137.41	39.48	11,248.	7237.9	708.38	990.04	1,698.42
7	130.0	7.28	16.479	44.36	31.00	0.31	2.55	1.00	1.00	1.72	43.20	108.79	34.41	9,379.6	6508.6	681.96	818.49	1,500.45
8	150.0	7.50	12.181	40.87	29.18	0.33	2.49	1.00	1.00	1.75	37.04	77.83	18.32	7,226.1	5012.2	588.87	571.78	1,160.65
9	170.0	7.70	9.381	41.00	31.40	0.40	2.29	1.00	1.00	1.77	35.39	37.63	12.30	5,245.1	3689.4	530.77	297.83	828.60
														103,362.3	61586.1			13,091.81

Load Case: 1.2D + 1.0Di + 1.0Wi 45° Wind 1.2D + 1.0Di + 1.0Wi 50 mph Wind at 45° 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)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	4.62	34.841	56.88	28.08	0.23	2.86	1.17	1.17	1.33	79.43	134.41	30.62	15,910.	7922.8	893.64	615.62	1,509.26
2	30.0	5.34	25.923	58.69	29.89	0.23	2.86	1.17	1.17	1.49	70.28	137.55	29.72	15,359.	7858.0	912.37	722.24	1,634.62
3	50.0	5.95	24.019	58.77	29.97	0.25	2.79	1.18	1.18	1.56	69.12	139.63	31.27	14,158.	8076.6	975.27	817.79	1,793.06
4	70.0	6.39	22.338	51.62	29.50	0.25	2.79	1.19	1.19	1.62	62.21	141.06	32.34	12,803.	7819.0	941.53	890.77	1,832.31
5	90.0	6.73	18.040	50.90	28.78	0.26	2.74	1.19	1.19	1.66	57.22	136.63	38.69	12,031.	7461.6	898.02	945.67	1,843.69
6	110.0	7.02	16.644	46.51	27.94	0.27	2.69	1.20	1.20	1.69	52.96	137.41	39.48	11,248.	7237.9	850.06	990.04	1,840.10
7	130.0	7.28	16.479	44.36	31.00	0.31	2.55	1.20	1.20	1.72	51.84	108.79	34.41	9,379.6	6508.6	818.35	818.49	1,636.84
8	150.0	7.50	12.181	40.87	29.18	0.33	2.49	1.20	1.20	1.75	44.44	77.83	18.32	7,226.1	5012.2	706.65	571.78	1,278.43
9	170.0	7.70	9.381	41.00	31.40	0.40	2.29	1.20	1.20	1.77	42.47	37.63	12.30	5,245.1	3689.4	636.92	297.83	934.75
														103,362.3	61586.1			14,303.06

Section Forces

Structure: CT46125-A-SBA **Code:** EIA/TIA-222-G 9/2/2021
Site Name: Roxbury-lower County Rd **Exposure:** C
Height: 180.00 (ft) **Crest Height:** 0.00
Base Elev: 0.000 (ft) **Site Class:** D - Stiff Soil
Gh: 0.85 **Topography:** 1 **Struct Class:** II Page: 10



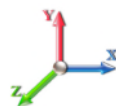
Load Case: 1.0D + 1.0W Normal Wind 1.0D + 1.0W 60 mph Wind at Normal To Face
Wind Load Factor: 1.00 **Wind Importance Factor:** 1.00
Dead Load Factor: 1.00
Ice Dead Load Factor: 0.00 **Ice Importance Factor:** 1.00

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)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	6.66	34.841	28.80	0.00	0.16	3.16	1.00	1.00	0.00	50.21	77.24	0.00	6,656.2	0.0	897.46	341.93	1,239.39
2	30.0	7.69	25.923	28.80	0.00	0.15	3.20	1.00	1.00	0.00	40.83	76.27	0.00	6,251.0	0.0	855.66	390.54	1,246.20
3	50.0	8.57	24.019	28.80	0.00	0.16	3.16	1.00	1.00	0.00	38.68	76.27	0.00	5,068.0	0.0	890.43	434.88	1,325.31
4	70.0	9.20	22.338	22.12	0.00	0.15	3.20	1.00	1.00	0.00	34.50	76.27	0.00	4,153.9	0.0	862.99	466.80	1,329.80
5	90.0	9.70	18.040	22.12	0.00	0.15	3.19	1.00	1.00	0.00	30.11	76.27	0.00	3,808.3	0.0	790.93	492.17	1,283.09
6	110.0	10.12	16.644	18.58	0.00	0.16	3.18	1.00	1.00	0.00	27.20	76.27	0.00	3,342.4	0.0	743.05	513.40	1,256.45
7	130.0	10.48	16.479	13.36	0.00	0.16	3.17	1.00	1.00	0.00	24.07	60.58	0.00	2,392.5	0.0	679.97	424.09	1,104.06
8	150.0	10.80	12.181	11.69	0.00	0.15	3.19	1.00	1.00	0.00	18.82	42.90	0.00	1,844.9	0.0	550.97	312.84	863.80
9	170.0	11.09	9.381	9.60	0.00	0.16	3.18	1.00	1.00	0.00	14.84	19.88	0.00	1,296.4	0.0	443.96	152.98	596.94
														34,813.4	0.0	10,245.04		

Load Case: 1.0D + 1.0W 45° Wind 1.0D + 1.0W 60 mph Wind at 45° 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	6.66	34.841	28.80	0.00	0.16	3.16	1.12	1.12	0.00	56.23	77.24	0.00	6,656.2	0.0	1005.17	341.93	1,347.09
2	30.0	7.69	25.923	28.80	0.00	0.15	3.20	1.11	1.11	0.00	45.43	76.27	0.00	6,251.0	0.0	952.04	390.54	1,342.58
3	50.0	8.57	24.019	28.80	0.00	0.16	3.16	1.12	1.12	0.00	43.31	76.27	0.00	5,068.0	0.0	996.98	434.88	1,431.86
4	70.0	9.20	22.338	22.12	0.00	0.15	3.20	1.11	1.11	0.00	38.40	76.27	0.00	4,153.9	0.0	960.75	466.80	1,427.55
5	90.0	9.70	18.040	22.12	0.00	0.15	3.19	1.12	1.12	0.00	33.58	76.27	0.00	3,808.3	0.0	882.19	492.17	1,374.36
6	110.0	10.12	16.644	18.58	0.00	0.16	3.18	1.12	1.12	0.00	30.38	76.27	0.00	3,342.4	0.0	829.92	513.40	1,343.32
7	130.0	10.48	16.479	13.36	0.00	0.16	3.17	1.12	1.12	0.00	26.90	60.58	0.00	2,392.5	0.0	760.05	424.09	1,184.14
8	150.0	10.80	12.181	11.69	0.00	0.15	3.19	1.11	1.11	0.00	20.98	42.90	0.00	1,844.9	0.0	614.26	312.84	927.09
9	170.0	11.09	9.381	9.60	0.00	0.16	3.18	1.12	1.12	0.00	16.57	19.88	0.00	1,296.4	0.0	496.00	152.98	648.97
														34,813.4	0.0	11,026.98		

Force/Stress Compression Summary

Structure: CT46125-A-SBA	Code: EIA/TIA-222-G	9/2/2021	 
Site Name: Roxbury-lower County Rd	Exposure: C		
Height: 180.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (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	Len (ft)	Bracing %			KL/R	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
						X	Y	Z					
1	20	PST - 8" DIA PIPE	-198.79	1.2D + 1.6W 45° Wind	10.02	100	100	100	40.89	54.00	357.75	55.6	Member X
2	40	PST - 8" DIA PIPE	-176.91	1.2D + 1.6W 45° Wind	10.02	100	100	100	40.89	54.00	357.75	49.4	Member X
3	60	PST - 8" DIA PIPE	-152.99	1.2D + 1.6W 45° Wind	10.02	100	100	100	40.89	54.00	357.75	42.8	Member X
4	80	PST - 6" DIA PIPE	-128.83	1.2D + 1.6W 45° Wind	10.02	100	100	100	53.43	54.00	216.46	59.5	Member X
5	100	PST - 6" DIA PIPE	-104.46	1.2D + 1.6W 45° Wind	10.02	100	100	100	53.43	54.00	216.46	48.3	Member X
6	120	PST - 5" DIA PIPE	-79.47	1.2D + 1.6W 45° Wind	10.02	100	100	100	63.94	54.00	151.32	52.5	Member X
7	140	PST - 3-1/2" DIA PIPE	-55.71	1.2D + 1.6W 45° Wind	6.68	100	100	100	59.81	54.00	98.20	56.7	Member X
8	160	PST - 3" DIA PIPE	-33.03	1.2D + 1.6W 45° Wind	6.68	100	100	100	69.09	54.00	74.35	44.4	Member X
9	180	PST - 2-1/2" DIA PIPE	-12.73	1.2D + 1.6W 45° Wind	5.01	100	100	100	63.47	54.00	60.25	21.1	Member X

Splices

Top Splice							Bottom Splice						
Sect	Top Elev	Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts	Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts
1	20	1.2D + 1.6W 45° Wind	183.19	0.00	0.0			1.2D + 1.6W 45° Wind	205.56	0.00			
2	40	1.2D + 1.6W 45° Wind	159.49	0.00	0.0			1.2D + 1.6W 45° Wind	183.19	0.00		1/4 A325	8
3	60	1.2D + 1.6W 45° Wind	135.26	0.00	0.0			1.2D + 1.6W 45° Wind	159.49	0.00		1/4 A325	8
4	80	1.2D + 1.6W 45° Wind	110.85	0.00	0.0			1.2D + 1.6W 45° Wind	135.26	0.00		1/4 A325	8
5	100	1.2D + 1.6W 45° Wind	86.02	0.00	0.0			1.2D + 1.6W 45° Wind	110.85	0.00		1 A325	8
6	120	1.2D + 1.6W 45° Wind	60.23	0.00	0.0			1.2D + 1.6W 45° Wind	86.02	0.00		1 A325	8
7	140	1.2D + 1.6W 45° Wind	36.56	0.00	0.0			1.2D + 1.6W 45° Wind	60.23	0.00		1 A325	6
8	160	1.2D + 1.6W 45° Wind	15.50	0.00	0.0			1.2D + 1.6W 45° Wind	36.56	0.00		3/4 A325	6
9	180	1.2D + 1.0E	0.69	0.00	0.0			1.2D + 1.6W 45° Wind	15.50	0.00		3/4 A325	4

HORIZONTAL MEMBERS

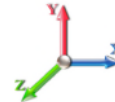
Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
						X	Y	Z									
1	20										0.00	0	0				
2	40										0.00	0	0				
3	60										0.00	0	0				
4	80										0.00	0	0				
5	100										0.00	0	0				
6	120										0.00	0	0				
7	140										0.00	0	0				
8	160										0.00	0	0				
9	180	SAE - 1.75X1.75X0.1875	-0.04	0.9D + 1.6W 45° Wind	5.00	100	100	100	174.93	36.00	4.58	1	1	7.95	7.50	1	Member Z

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			KL/R	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
						X	Y	Z									
1	20	SAE - 5X5X0.3125	-7.96	1.2D + 1.6W Normal Wind	21.99	50	50	50	129.76	36.00	40.45	2	1	24.86	41.8	32	Bolt Shear
2	40	SAE - 4X4X0.375	-7.96	1.2D + 1.6W Normal Wind	20.52	50	50	50	147.67	36.00	29.63	2	1	24.86	50.2	32	Bolt Shear
3	60	SAE - 4X4X0.25	-7.56	1.2D + 1.6W Normal Wind	19.09	50	50	50	138.36	36.00	22.89	2	1	24.86	33.4	33	Member Z
4	80	SAE - 4X4X0.25	-7.16	1.2D + 1.6W Normal Wind	17.69	50	50	50	130.32	36.00	25.68	2	1	24.86	33.4	29	Bolt Shear
5	100	SAE - 3.5X3.5X0.25	-6.79	1.2D + 1.6W Normal Wind	16.34	50	50	50	136.25	36.00	20.57	2	1	24.86	33.4	33	Member Z
6	120	SAE - 3.5X3.5X0.25	-6.58	1.2D + 1.6W Normal Wind	15.06	50	50	50	127.80	36.00	23.17	2	1	24.86	33.4	28	Member Z
7	140	SAE - 3X3X0.1875	-5.41	1.2D + 1.6W Normal Wind	11.79	50	50	50	119.03	36.00	16.75	1	1	12.43	9.79	55	Bolt Bear
8	160	SAE - 2.5X2.5X0.1875	-3.83	1.2D + 1.6W Normal Wind	10.46	50	50	50	126.79	36.00	12.54	1	1	12.43	9.79	39	Bolt Bear
9	180	SAE - 1.75X1.75X0.1875	-3.14	1.2D + 1.6W Normal Wind	8.17	50	50	50	142.92	36.00	6.86	1	1	7.95	7.50	46	Member Z

Force/Stress Compression Summary

Structure: CT46125-A-SBA	Code: EIA/TIA-222-G	9/2/2021
Site Name: Roxbury-lower County Rd	Exposure: C	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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DIAGONAL MEMBERS

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

Force/Stress Tension Summary

Structure: CT46125-A-SBA	Code: EIA/TIA-222-G	9/2/2021
Site Name: Roxbury-lower County Rd	Exposure: C	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 13



LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	20	PST - 8" DIA PIPE	183.97	0.9D + 1.6W 45° Wind	54	408.24	45.1	Member
2	40	PST - 8" DIA PIPE	162.35	0.9D + 1.6W 45° Wind	54	408.24	39.8	Member
3	60	PST - 8" DIA PIPE	139.88	0.9D + 1.6W 45° Wind	54	408.24	34.3	Member
4	80	PST - 6" DIA PIPE	116.80	0.9D + 1.6W 45° Wind	54	271.19	43.1	Member
5	100	PST - 6" DIA PIPE	93.28	0.9D + 1.6W 45° Wind	54	271.19	34.4	Member
6	120	PST - 5" DIA PIPE	69.24	0.9D + 1.6W 45° Wind	54	208.98	33.1	Member
7	140	PST - 3-1/2" DIA PIPE	46.41	0.9D + 1.6W 45° Wind	54	130.25	35.6	Member
8	160	PST - 3" DIA PIPE	26.56	0.9D + 1.6W 45° Wind	54	108.38	24.5	Member
9	180	PST - 2-1/2" DIA PIPE	7.50	0.9D + 1.6W 45° Wind	54	82.81	9.1	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 45° Wind	167.71	0.00	0.0			0.9D + 1.6W 45° Wind	190.9	0.00			
2	40	0.9D + 1.6W 45° Wind	144.98	0.00	0.0			0.9D + 1.6W 45° Wind	167.7	610.56	27.5	1 1/4 A325	8
3	60	0.9D + 1.6W 45° Wind	122.10	0.00	0.0			0.9D + 1.6W 45° Wind	144.9	610.56	23.7	1 1/4 A325	8
4	80	0.9D + 1.6W 45° Wind	98.70	0.00	0.0			0.9D + 1.6W 45° Wind	122.1	610.56	20.0	1 1/4 A325	8
5	100	0.9D + 1.6W 45° Wind	74.82	0.00	0.0			0.9D + 1.6W 45° Wind	98.70	424.08	23.3	1 A325	8
6	120	0.9D + 1.6W 45° Wind	49.95	0.00	0.0			0.9D + 1.6W 45° Wind	74.82	424.08	17.6	1 A325	8
7	140	0.9D + 1.6W 45° Wind	29.23	0.00	0.0			0.9D + 1.6W 45° Wind	49.95	318.06	15.7	1 A325	6
8	160	0.9D + 1.6W 45° Wind	9.81	0.00	0.0			0.9D + 1.6W 45° Wind	29.23	180.60	16.2	3/4 A325	6
9	180		0.00	0.00	0.0			0.9D + 1.6W 45° Wind	9.81	120.40	8.1	3/4 A325	4

HORIZONTAL MEMBERS

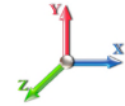
Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	-			36	0.00	0	0					
2	40	-			36	0.00	0	0					
3	60	-			36	0.00	0	0					
4	80	-			36	0.00	0	0					
5	100	-			36	0.00	0	0					
6	120	-			36	0.00	0	0					
7	140	-			36	0.00	0	0					
8	160	-			36	0.00	0	0					
9	180	SAE - 1.75X1.75X0.1875	0.25	1.2D + 1.6W Normal Wi	36	20.09	1	1	7.95	7.50	7.25	3.4	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 - 5X5X0.3125	7.97	1.2D + 1.6W Normal Wi	36	98.17	2	1	24.86	41.87	37.91	32.1	Bolt Shear
2	40	SAE - 4X4X0.375	7.76	0.9D + 1.6W Normal Wi	36	92.66	2	1	24.86	50.24	37.34	31.2	Bolt Shear
3	60	SAE - 4X4X0.25	7.39	0.9D + 1.6W Normal Wi	36	62.86	2	1	24.86	33.49	24.89	29.7	Bolt Shear
4	80	SAE - 4X4X0.25	6.96	0.9D + 1.6W Normal Wi	36	62.86	2	1	24.86	33.49	24.89	28.0	Bolt Shear
5	100	SAE - 3.5X3.5X0.25	6.59	1.2D + 1.6W Normal Wi	36	54.76	2	1	24.86	33.49	24.89	26.5	Bolt Shear
6	120	SAE - 3.5X3.5X0.25	6.47	1.2D + 1.6W Normal Wi	36	54.76	2	1	24.86	33.49	24.89	26.0	Bolt Shear
7	140	SAE - 3X3X0.1875	4.97	0.9D + 1.6W Normal Wi	36	35.32	1	1	12.43	9.79	10.55	50.7	Bolt Bear
8	160	SAE - 2.5X2.5X0.1875	3.55	1.2D + 1.6W Normal Wi	36	29.22	1	1	12.43	9.79	9.53	37.2	Blck Shear
9	180	SAE - 1.75X1.75X0.1875	3.03	0.9D + 1.6W Normal Wi	36	20.09	1	1	7.95	7.50	7.25	41.8	Blck Shear

Seismic Section Forces

Structure: CT46125-A-SBA	Code: EIA/TIA-222-G	9/2/2021
Site Name: Roxbury-lower County Rd	Exposure: C	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E

Dead Load Factor	1.20	Sds	0.209	Ss	0.1960	Fa	1.6000	Ke	0.0000
Seismic Load Factor	1.00	Sd1	0.104	S1	0.0650	Fv	2.4000	Kg	0.0000
Seismic Importance Factor	1.00	SA	0.167	R	3.0000	Vs	3.1108	f1	1.6130

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	10.00	6661.1	0.01	0.05	0.03	28.72
2	30.00	6251.0	0.05	0.07	0.04	55.32
3	50.00	5067.9	0.15	0.07	0.03	69.75
4	70.00	4153.8	0.29	0.05	0.01	83.02
5	90.00	3808.2	0.47	-0.01	0.01	98.13
6	110.00	3342.4	0.71	-0.09	0.03	103.77
7	130.00	5782.7	0.99	-0.11	0.12	239.92
8	150.00	2169.9	1.31	0.14	0.35	149.42
9	170.00	9099.2	1.69	1.07	0.79	1140.43

Support Forces Summary

Structure: CT46125-A-SBA

Code: EIA/TIA-222-G

9/2/2021

Site Name: Roxbury-lower County Rd

Exposure: C

Height: 180.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

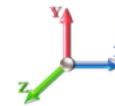
Site Class: D - Stiff Soil

Gh: 0.85

Topography: 1

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	-7.94	147.67	-13.53	
	1a	6.60	-119.85	-12.11	
	1b	-6.50	-117.32	-11.96	
	1c	7.83	145.10	-13.36	
1.2D + 1.6W 45° Wind	1	-15.04	205.35	-15.09	
	1a	-5.35	18.21	-3.05	
	1b	-14.67	-186.33	-14.61	
	1c	-3.00	18.37	-5.30	
0.9D + 1.6W Normal Wind	1	-7.75	144.07	-13.34	
	1a	6.78	-123.21	-12.29	
	1b	-6.68	-120.69	-12.14	
	1c	7.65	141.53	-13.18	
0.9D + 1.6W 45° Wind	1	-14.86	201.73	-14.90	
	1a	-5.16	14.70	-3.24	
	1b	-14.85	-189.61	-14.79	
	1c	-3.18	14.88	-5.12	
1.2D + 1.0Di + 1.0Wi Normal Wind	1	-1.91	76.58	-3.71	
	1a	2.87	-10.59	-4.66	
	1b	-2.83	-9.46	-4.60	
	1c	1.86	75.36	-3.64	
1.2D + 1.0Di + 1.0Wi 45° Wind	1	-4.39	97.25	-4.41	
	1a	-0.95	33.44	-1.81	
	1b	-5.47	-32.18	-5.45	
	1c	-1.79	33.38	-0.93	
1.2D + 1.0E	1	3.67	20.97	3.58	
	1a	4.46	6.83	-4.55	
	1b	-4.46	6.83	-4.55	
	1c	-3.67	20.97	3.58	
1.0D + 1.0W Normal Wind	1	-2.52	46.78	-4.02	
	1a	1.31	-23.60	-2.80	
	1b	-1.28	-22.98	-2.76	
	1c	2.50	46.13	-3.98	
1.0D + 1.0W 45° Wind	1	-4.50	62.79	-4.52	
	1a	-1.78	11.89	-0.49	
	1b	-3.36	-40.22	-3.35	
	1c	-0.48	11.88	-1.76	

Max Reactions

Leg			Overturning		
Max Uplift:	-189.61	(kips)	Moment:	5539.22	(ft-kips)
Max Down:	205.35	(kips)	Total Down:	55.60	(kips)
Max Shear:	21.30	(kips)	Total Shear:	53.81	(kips)

Analysis Summary

Structure: CT46125-A-SBA	Code: EIA/TIA-222-G	9/2/2021
Site Name: Roxbury-lower County Rd	Exposure: C	
Height: 180.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 16



Max Reactions

Leg		Overturning	
Max Uplift:	-189.61 (kips)	Moment:	5539.22 (ft-kips)
Max Down:	205.35 (kips)	Total Down:	55.60 (kips)
Max Shear:	21.30 (kips)	Total Shear:	53.81 (kips)

Anchor Bolts

Bolt Size (in.): 1.50	Number Bolts: 4
Yield Strength (Ksi): 36.00	Tensile Strength (Ksi): 58.00
Detail Type: C	

Interaction Ratio: 0.88

Max Usages

Max Leg: 59.5% (1.2D + 1.6W 45° Wind - Sect 4)
 Max Diag: 55.2% (1.2D + 1.6W Normal Wind - Sect 7)
 Max Horiz: 3.4% (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 93 mph Wind at 45° From Face	20.00	0.0158	-0.0025	0.0648
	126.67	0.5084	0.0720	0.4742
	140.00	0.6248	0.1102	0.5377
	165.00	0.8757	-0.1786	0.6093
	175.00	0.9821	-0.2556	0.6094
	180.00	1.0151	-0.2832	0.6313
0.9D + 1.6W 93 mph Wind at Normal To Face	20.00	0.0150	0.0007	0.0715
	126.67	0.4792	-0.1405	0.4709
	140.00	0.5916	-0.2227	0.6745
	165.00	0.8362	-0.2252	0.6075
	175.00	0.9405	-0.2297	0.6041
	180.00	0.9922	-0.2354	0.7928
1.0D + 1.0W 60 mph Wind at 45° From Face	20.00	0.0044	-0.0005	0.0172
	126.67	0.1299	0.0147	0.1214
	140.00	0.1596	0.0227	0.1407
	165.00	0.2238	-0.0408	0.1573
	175.00	0.2510	-0.0619	0.1575
	180.00	0.2644	-0.0698	0.1677
1.0D + 1.0W 60 mph Wind at Normal To Face	20.00	0.0040	0.0004	0.0185
	126.67	0.1254	-0.0308	0.1227
	140.00	0.1547	-0.0494	0.1753
	165.00	0.2184	-0.0428	0.1579
	175.00	0.2456	-0.0432	0.1577
	180.00	0.2590	-0.0492	0.2068

1.2D + 1.0Di + 1.0Wi 50 mph Wind at 45° From Face	20.00	0.0043	-0.0010	0.0284
	126.67	0.1638	0.0281	0.1516
	140.00	0.2006	0.0431	0.1823
	165.00	0.2796	-0.0815	0.1944
	175.00	0.3130	-0.1207	0.1964
	180.00	0.3294	-0.1351	0.2224

1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face	20.00	0.0041	0.0003	0.0278
	126.67	0.1557	-0.0574	0.1532
	140.00	0.1915	-0.0906	0.2385
	165.00	0.2692	-0.0792	0.1949
	175.00	0.3023	-0.0822	0.1955
	180.00	0.3187	-0.0930	0.2857

1.2D + 1.0E - Normal To Face	20.00	0.0024	0.0002	0.0187
	126.67	0.0309	0.0013	0.0317
	140.00	0.0387	0.0015	0.0374
	165.00	0.0571	0.0020	0.0481
	175.00	0.0653	0.0020	0.0483
	180.00	0.0694	0.0020	0.0479

1.2D + 1.6W 93 mph Wind at 45° From Face	20.00	0.0158	-0.0025	0.0647
	126.67	0.5091	0.0720	0.4751
	140.00	0.6257	0.1102	0.5384
	165.00	0.8771	-0.1785	0.6107
	175.00	0.9837	-0.2555	0.6112
	180.00	1.0165	-0.2830	0.6326

1.2D + 1.6W 93 mph Wind at Normal To Face	20.00	0.0151	0.0007	0.0714
	126.67	0.4797	-0.1405	0.4716
	140.00	0.5923	-0.2227	0.6753
	165.00	0.8373	-0.2252	0.6087
	175.00	0.9418	-0.2297	0.6056
	180.00	0.9935	-0.2353	0.7941



Maser Consulting Connecticut
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peter.albano@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10086841
Maser Consulting Connecticut Project #: 21777244A Rev. 2

August 5, 2021

Site Information

Site ID: 468203-VZW / ROXBURY CT
Site Name: ROXBURY CT
Carrier Name: Verizon Wireless
Address: 35 Lower County Road
Roxbury, Connecticut 06783
Litchfield County
Latitude: 41.559622°
Longitude: -73.292233°

Structure Information

Tower Type: Self-Support
Mount Type: 12.00-Ft T-Frame

FUZE ID # 16272049

Analysis Results

T-Frame: 47.9% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

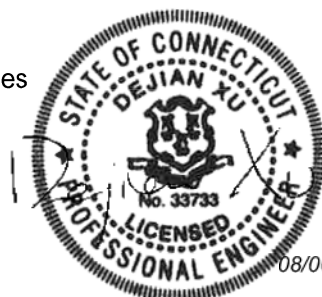
Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Andy Hanes



08/06/2021

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 324796, dated July 23, 2021
Mount Mapping Report	Roaming Networks Inc., Site ID: PSLC468203, dated April 1, 2021
Previous Mount Analysis	Maser Consulting, Project #: 21777244A Rev.1, Dated July 9, 2021
Mount Modification Drawings	Maser Consulting, Project #: 21777244A Rev.1, Dated July 16, 2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 115 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.969
Seismic Parameters:	S_s : 0.195 S_1 : 0.054
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
164.0	164.0	6	Commscope	JAHH-65C-R3B-V2	Added
		3	Samsung	MT6407-77A	
		3	Commscope	TD-850B-LTE78-43	
		1	RFS	DB-C1-12C-24AB-0Z	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Commscope	CBC78T-DS-43-2X	

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

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

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

Standard Conditions:

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

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

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

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

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Standoff Horizontal</i>	<i>11.8 %</i>	<i>Pass</i>
<i>Standoff Vertical</i>	<i>1.3 %</i>	<i>Pass</i>
<i>Face Horizontal</i>	<i>47.9 %</i>	<i>Pass</i>
<i>Face Vertical</i>	<i>6.5 %</i>	<i>Pass</i>
<i>Standoff Diagonal</i>	<i>47.4 %</i>	<i>Pass</i>
<i>Mast Pipe</i>	<i>16.6 %</i>	<i>Pass</i>
<i>Tieback</i>	<i>3.7 %</i>	<i>Pass</i>
<i>Mount Pipe</i>	<i>32.2 %</i>	<i>Pass</i>
<i>Dual Mount Pipe</i>	<i>15.6 %</i>	<i>Pass</i>
<i>Mod Face Horizontal</i>	<i>34.9 %</i>	<i>Pass</i>
<i>Mod V-bracing kit</i>	<i>24.9 %</i>	<i>Pass</i>
<i>Mod Tieback</i>	<i>44.5 %</i>	<i>Pass</i>
<i>Connection Check</i>	<i>14.3 %</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	47.9%
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Recommendation:

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

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

Attachments:

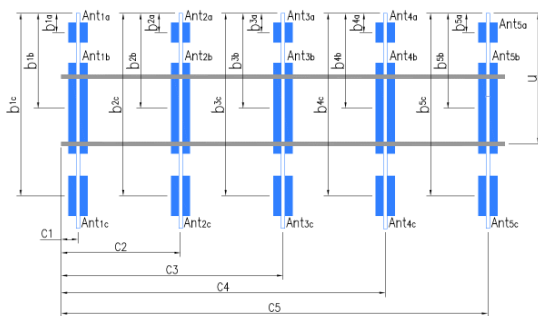
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



FCC #	1270232
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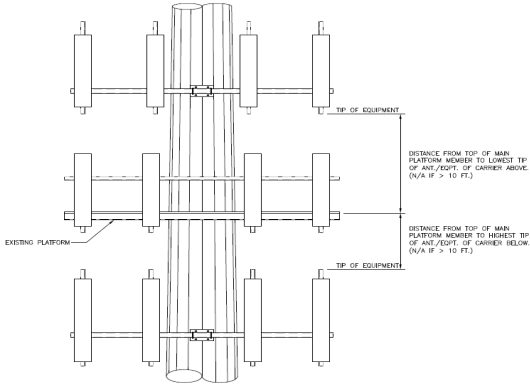
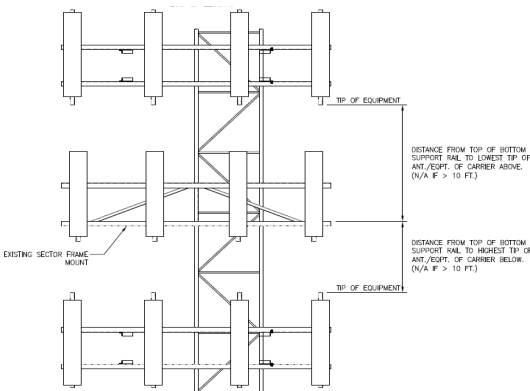
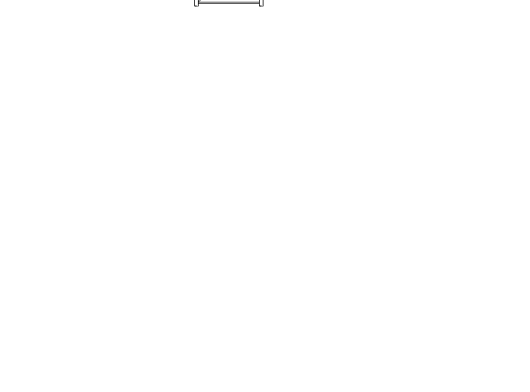
Tower Owner:	Other	Mapping Date:	4/1/2021
Site Name:	ROXBURY CT	Tower Type:	Self Support
Site Number or ID:	PSLC468203	Tower Height (Ft.):	N/A
Mapping Contractor:	Roaming Networks Inc.	Mount Elevation (Ft.):	166

Diagram illustrating the structure of a triangular frame, showing three sectors (A, B, C) and three legs (A, B, C). The structure is composed of three faces (FACE A, FACE B, FACE C) meeting at a central point. A detailed view of the joint shows a horizontal offset 'h' between the faces.



Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	4.00	C1	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	4.00
A2	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	64.00	C2	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	64.00
A3	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	115.00	C3	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	115.00
A4	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	139.00	C4	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	139.00
A5				C5			
A6				C6			
B1	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	4.00	D1			
B2	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	64.00	D2			
B3	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	115.00	D3			
B4	PIPE 2.4"Ø X 0.16" X 84" LONG	56.00	139.00	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							16.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							3
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		6.5	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):				2.4

[illegible]

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector		Sector B																			
Sector A:	5.00	Deg	Leg A:	35.00	Deg	Ant _{1a}	Unknow	6.00	13.00	72.00		165.167	50.00	15.00	155.00	12									
Sector B:	155.00	Deg	Leg B:	155.00	Deg	Ant _{1b}																			
Sector C:	256.00	Deg	Leg C:	275.00	Deg	Ant _{1c}																			
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	BXA-70063-6CF-EDIN	12.20	4.50	71.00		165.917	41.00	11.00	155.00	14,15									
						Ant _{2b}																			
						Ant _{2c}																			
Climbing Facility Information						Ant _{3a}	BXA-171085-8BF	6.10	4.10	48.20		165.917	41.00	7.00	155.00	5,6									
Climbing Facility	Corrosion Type:		Good condition.			Ant _{3b}																			
	Access:		Climbing path was unobstructed.			Ant _{3c}																			
	Condition:		Good condition.			Ant _{4a}	Unknow	6.00	13.00	72.00		165.333	48.00	17.00	155.00	9,10,11									
						Ant _{4b}																			
						Ant _{4c}																			
						Ant _{5a}																			
						Ant _{5b}																			
						Ant _{5c}																			
						Ant on Standoff																			
						Ant on Standoff																			
						Ant on Tower																			
						Ant on Tower																			
						Sector C										Ant _{1a}	Unknow	6.00	13.00	72.00		165.167	50.00	15.00	256.00
						Ant _{1b}																			
						Ant _{1c}																			
						Ant _{2a}	BXA-70063-6CF-EDIN	12.20	4.50	71.00		165.917	41.00	11.00	256.00	14,15									
						Ant _{2b}																			
						Ant _{2c}																			
						Ant _{3a}	BXA-171085-8BF	6.10	4.10	48.20		165.917	41.00	7.00	256.00	5,6									
						Ant _{3b}																			
						Ant _{3c}																			
						Ant _{4a}	Unknow	6.00	13.00	72.00		165.333	48.00	17.00	256.00	9,10,11									
						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}																									

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

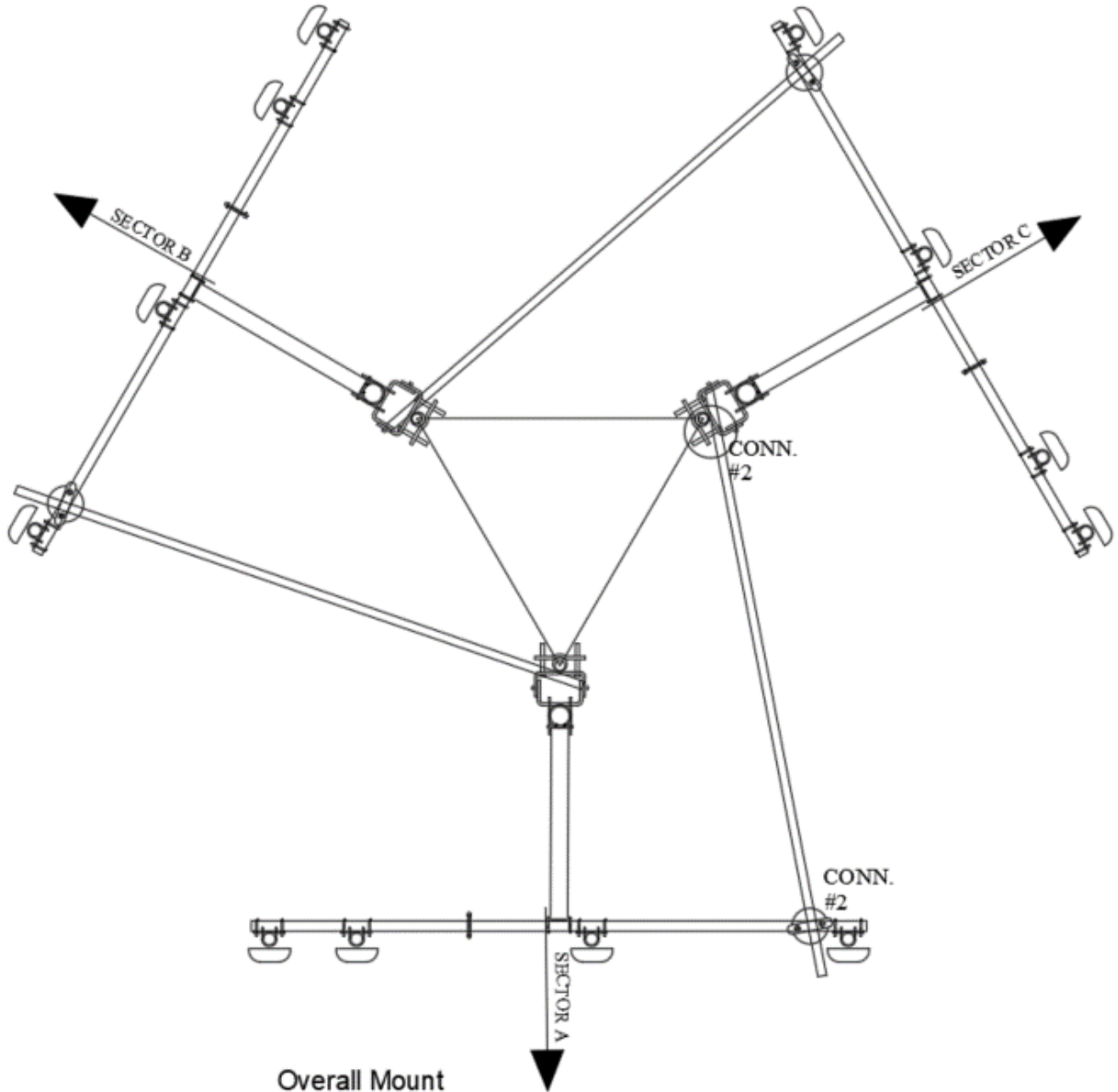
1		
2		
3		
4		
5		
6		
7		
8		

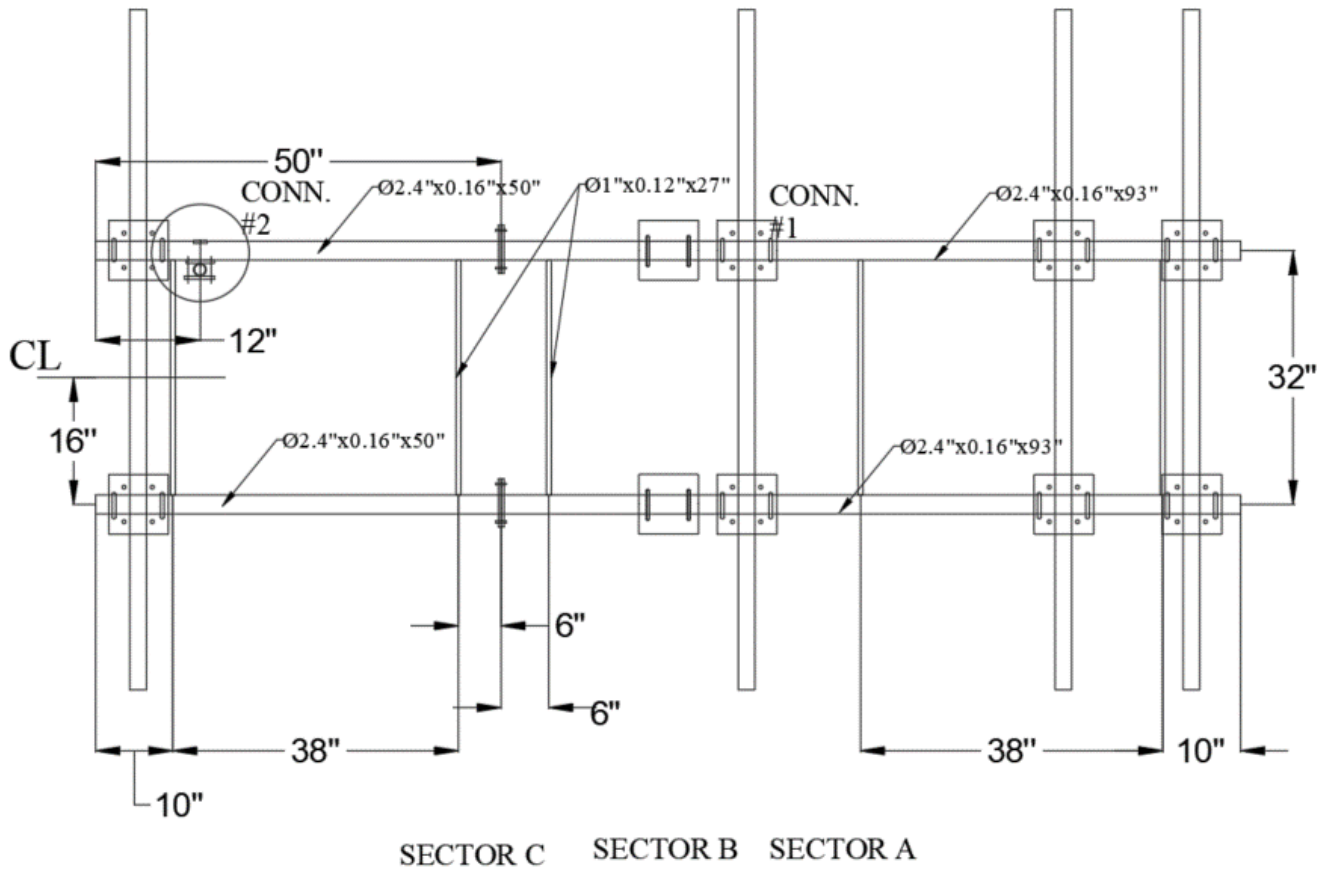
Mapping Notes
1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.) 2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use 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.

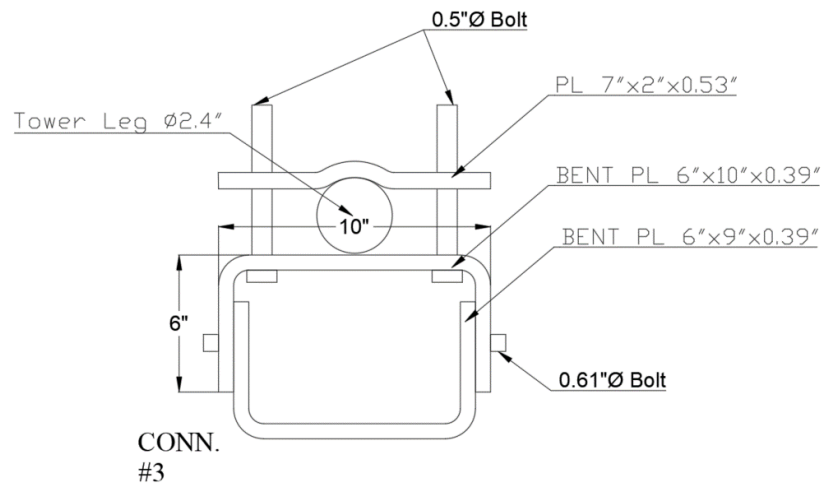
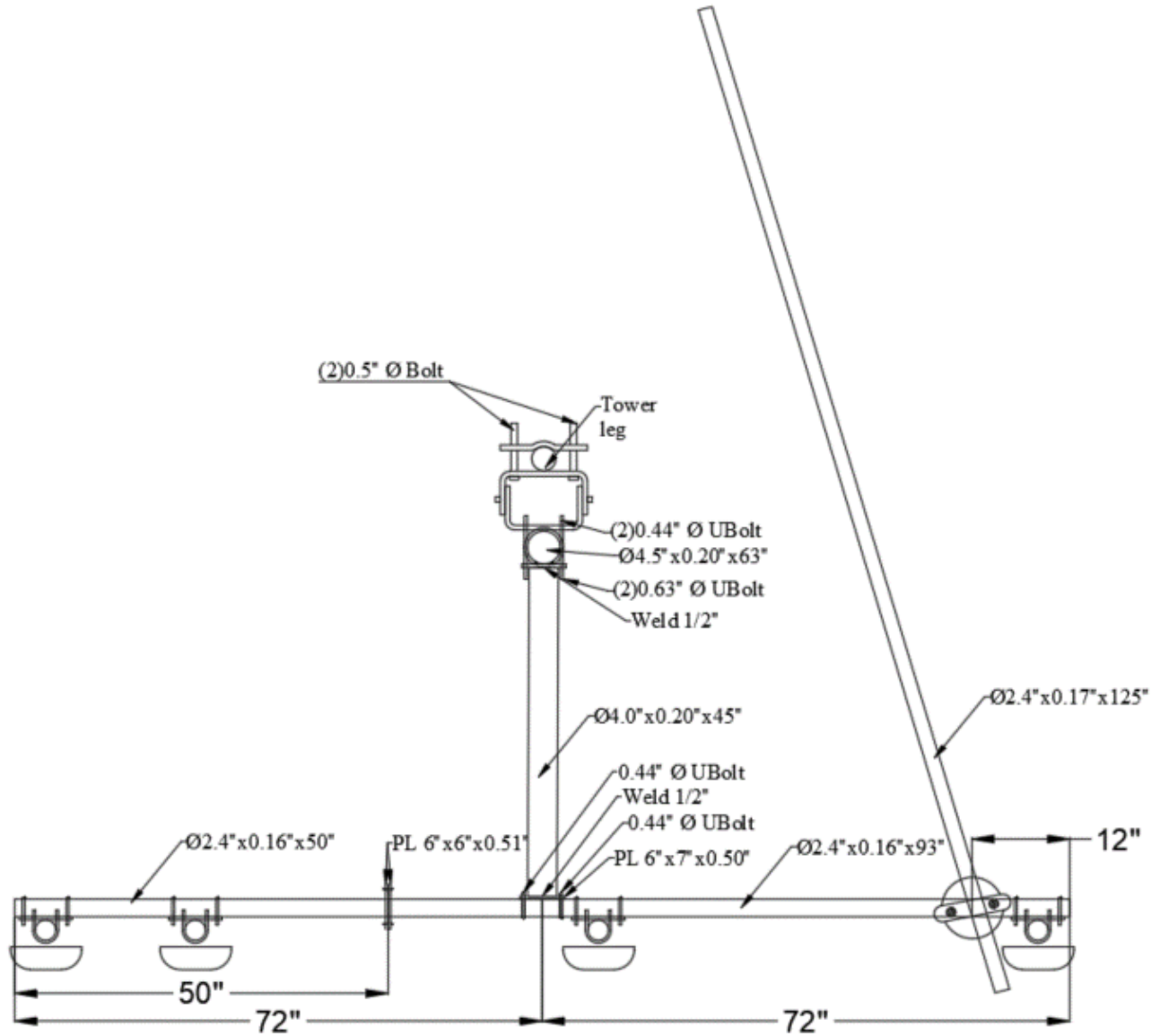
Antenna Mount Mapping Form (PATENT PENDING)
FCC #
1270232

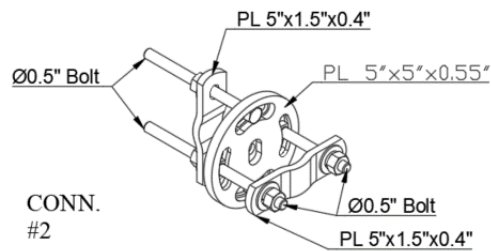
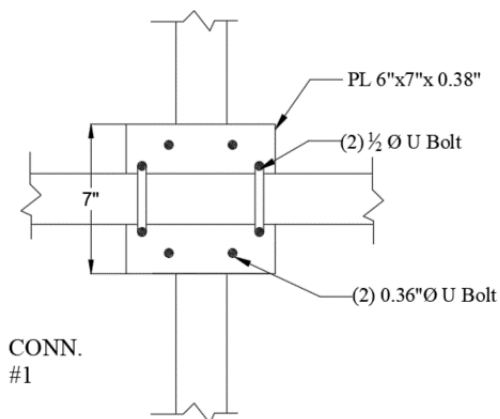
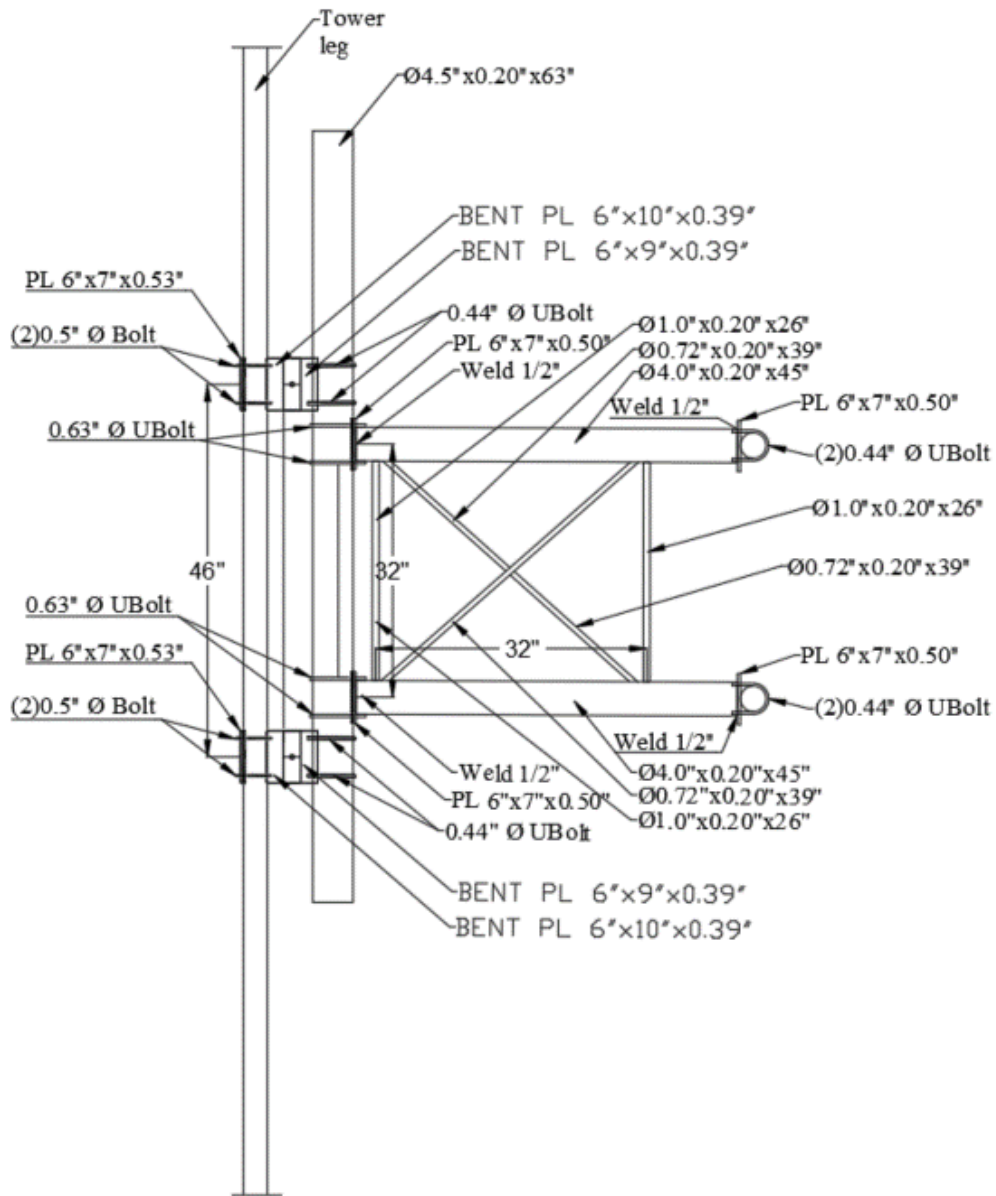
Tower Owner:	Other	Mapping Date:	4/1/2021
Site Name:	ROXBURY CT	Tower Type:	Self Support
Site Number or ID:	PSLC468203	Tower Height (Ft.):	N/A
Mapping Contractor:	Roaming Networks Inc.	Mount Elevation (Ft.):	166

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Please Insert Sketches of the Antenna Mount

Overall Mount
Schematic

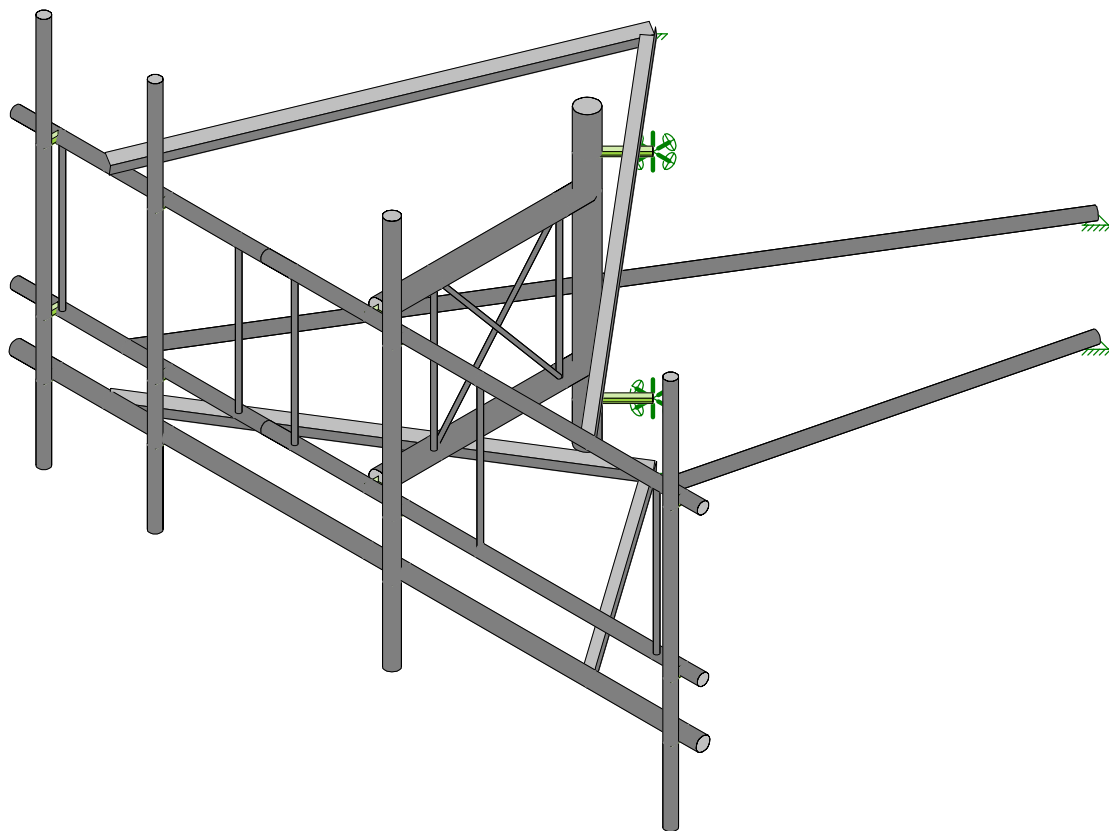
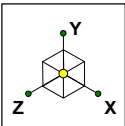






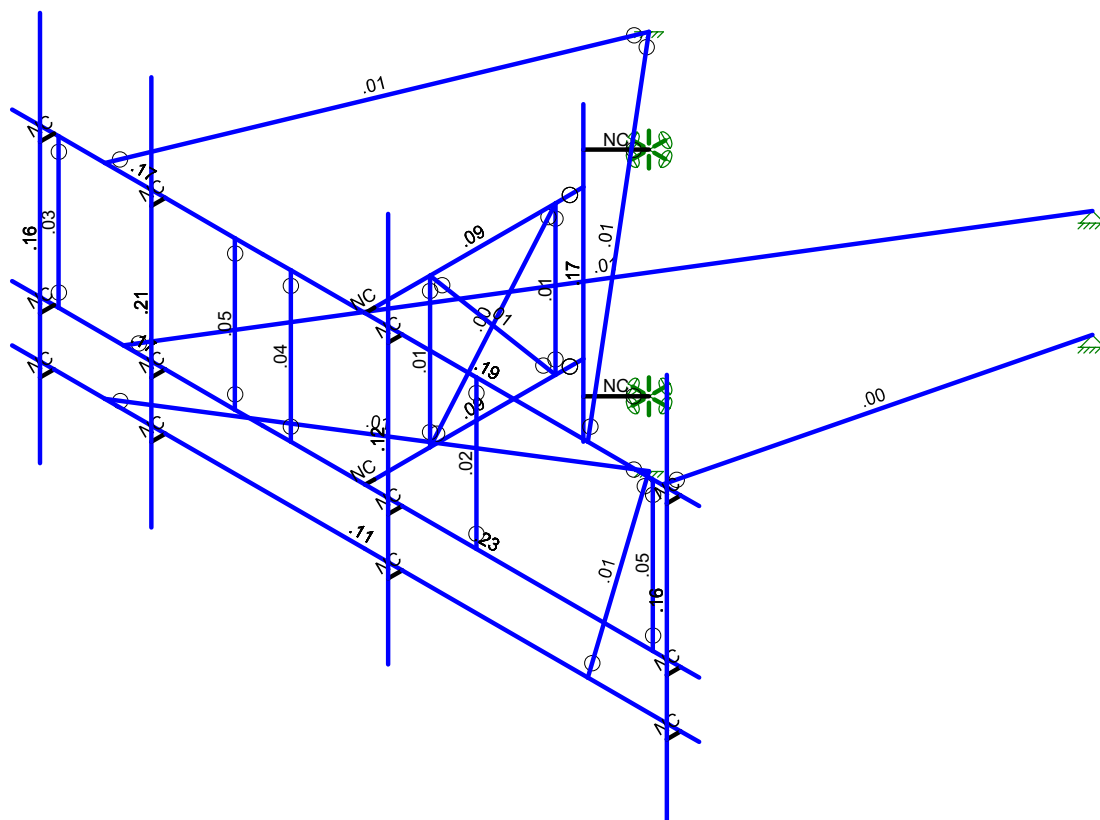
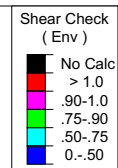
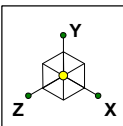
CONN.
#1

CONN.
#2



Envelope Only Solution

Maser Consulting	468203-VZW_MT_LOT_SectorA_H	SK - 1
AJH		July 13, 2021 at 2:46 PM
		468203-VZW_MT_LOT_A_H.r3d

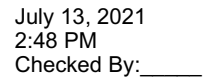


Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	468203-VZW_MT_LOT_SectorA_H	SK - 3
AJH		July 13, 2021 at 2:48 PM
		468203-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						27	
41	Structure Wo (0 Deg)	None						54	
42	Structure Wo (30 Deg)	None						54	
43	Structure Wo (60 Deg)	None						54	
44	Structure Wo (90 Deg)	None						54	
45	Structure Wo (120 D...	None						54	
46	Structure Wo (150 D...	None						54	
47	Structure Wo (180 D...	None						54	
48	Structure Wo (210 D...	None						54	
49	Structure Wo (240 D...	None						54	
50	Structure Wo (270 D...	None						54	
51	Structure Wo (300 D...	None						54	
52	Structure Wo (330 D...	None						54	
53	Structure Wi (0 Deg)	None						54	
54	Structure Wi (30 Deg)	None						54	
55	Structure Wi (60 Deg)	None						54	
56	Structure Wi (90 Deg)	None						54	

Page 2

Load Combinations (Continued)

	Description	Solve	P...	SR...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5										
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5										
51	1.4D	Yes	Y		1	1.4	39	1.4												
52	Seismic M...		Y		1	1	39	1												
53	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1						
54	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866						
55	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5						
56	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ							
57	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5						
58	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866						
59	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1						
60	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866						
61	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5						
62	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ							
63	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5						
64	1.2D + 1.0...		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	N3	0	0	-0.666667	0	
2	N4	0	2.666667	-0.666667	0	
3	N5	0	0	3.25	0	
4	N6	0	2.666667	3.25	0	
5	N7	0	0	2.083333	0	
6	N8	0	2.666667	2.083333	0	
7	N9	0	0	-0.166667	0	
8	N10	0	2.666667	-0.166667	0	
9	N45A	0	0	3.083333	0	
10	N46	0	2.666667	3.083333	0	
11	N11	-6.333333	0	3.25	0	
12	N12	-6.333333	2.666667	3.25	0	
13	N13	6	0	3.25	0	
14	N14	6	2.666667	3.25	0	
15	N15	-1.833333	0	3.25	0	
16	N16	-1.833333	2.666667	3.25	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N17	-5.5	0	3.25	0	
18	N18	-5.5	2.666667	3.25	0	
19	N19	-2.333333	0	3.25	0	
20	N20	-2.333333	2.666667	3.25	0	
21	N21	5.166667	0	3.25	0	
22	N22	5.166667	2.666667	3.25	0	
23	N23	2	0	3.25	0	
24	N24	2	2.666667	3.25	0	
25	N25	5.333333	2.666667	3.25	0	
26	N26	0	3.958333	-0.666667	0	
27	N27	0	-1.291667	-0.666667	0	
28	N28	0	3.25	-0.666667	0	
29	N29	0	-0.583333	-0.666667	0	
30	N30	0.589256	3.25	-1.255922	0	
31	N31	0.589256	-0.583333	-1.255922	0	
32	N32	6.867774	2.666667	-2.938246	0	
33	N33	5.666667	0	3.25	0	
34	N34	5.666667	2.666667	3.25	0	
35	N35	5.666667	0	3.5	0	
36	N36	5.666667	2.666667	3.5	0	
37	N37	5.666667	4.666667	3.5	0	
38	N38	5.666667	-2.333333	3.5	0	
39	N39	0.666667	0	3.25	0	
40	N40	0.666667	2.666667	3.25	0	
41	N41	0.666667	0	3.5	0	
42	N42	0.666667	2.666667	3.5	0	
43	N43	0.666667	4.666667	3.5	0	
44	N44	0.666667	-2.333333	3.5	0	
45	N45	-3.583333	0	3.25	0	
46	N46A	-3.583333	2.666667	3.25	0	
47	N47	-3.583333	0	3.5	0	
48	N48	-3.583333	2.666667	3.5	0	
49	N49	-3.583333	4.666667	3.5	0	
50	N50	-3.583333	-2.333333	3.5	0	
51	N51	-5.583333	0	3.25	0	
52	N52	-5.583333	2.666667	3.25	0	
53	N53	-5.583333	0	3.5	0	
54	N54	-5.583333	2.666667	3.5	0	
55	N55	-5.583333	4.666667	3.5	0	
56	N56	-5.583333	-2.333333	3.5	0	
57	N57	-1.333333	0	3.25	0	
58	N58	-1.333333	2.666667	3.25	0	
59	N59	0.589256	2.666667	-1.255922	0	
60	N60	2.271579	2.666667	-7.53444	0	
61	N61	-6.333333	-1	3.25	0	
62	N62	6	-1	3.25	0	
63	N63	5.666667	-1	3.25	0	
64	N64	5.666667	-1	3.5	0	
65	N65	0.666667	-1	3.25	0	
66	N66	0.666667	-1	3.5	0	
67	N67	-3.583333	-1	3.25	0	
68	N68	-3.583333	-1	3.5	0	
69	N69	-5.583333	-1	3.25	0	
70	N70	-5.583333	-1	3.5	0	
71	N71	0.589256	-1.75	-1.255922	0	
72	N72	0	-1	3.25	0	
73	N73	4	-1	3.25	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N74	-4.666667	-1	3.25	0	
75	N75	-4.333333	0	3.25	0	
76	N76	2.271579	0	-7.53444	0	
77	N87	0.589256	5.083333	-1.255922	0	
78	N89	4	2.666667	3.25	0	
79	N90	-4.666667	2.666667	3.25	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	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	Dual Mount Pipe	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Face Horizontal	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Mod Face Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
5	Standoff Horizontal	PIPE 3.5	Beam	Pipe	A53 Gr. B	Typical	2.5	4.52	4.52	9.04
6	Tieback	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
7	Mod Tieback	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
8	Standoff Vertical	SR 1	Column	BAR	A36 Gr.36	Typical	.785	.049	.049	.098
9	Standoff Diagonal	SR 0.75	Column	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
10	Mod Vbracing kit	L2.5x2.5x4	Column	Single A...	A36 Gr.36	Typical	1.19	.692	.692	.026
11	Mast Pipe	PIPE 4.0	Column	Pipe	A53 Gr. B	Typical	2.96	6.82	6.82	13.6
12	Face Vertical	SR 1	Column	BAR	A36 Gr.36	Typical	.785	.049	.049	.098

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	OVP	Standoff Ho...	3.75			Lbyy						Lateral
2	M4	Standoff Ho...	3.75			Lbyy						Lateral
3	M5	Standoff Ve...	2.667			Lbyy			.7	.7		Lateral
4	M6	Standoff Ve...	2.667			Lbyy			.7	.7		Lateral
5	M7	Face Horizo...	7.833			Lbyy						Lateral
6	M8	Face Horizo...	4.5			Lbyy						Lateral
7	M9	Face Horizo...	7.833			Lbyy						Lateral
8	M10	Face Horizo...	4.5			Lbyy						Lateral
9	M11	Face Vertical	2.667						.7	.7		Lateral
10	M12	Face Vertical	2.667						.7	.7		Lateral
11	M13	Face Vertical	2.667						.7	.7		Lateral
12	M14	Face Vertical	2.667						.7	.7		Lateral
13	M15	Standoff Di...	3.489						.7	.7		Lateral
14	M16	Standoff Di...	3.489						.7	.7		Lateral
15	M17	Mast Pipe	5.25									Lateral
16	M20	Tieback	6.376			Lbyy						Lateral
17	MP1A	Mount Pipe	7									Lateral
18	MP2A	Dual Mount ...	7									Lateral
19	MP3A	Mount Pipe	7									Lateral
20	MP4A	Mount Pipe	7									Lateral
21	M33	Face Vertical	2.667						.7	.7		Lateral
22	M38	Mod Face H...	12.333			Lbyy						Lateral
23	M39	Mod Vbraci...	6.964									Lateral
24	M40	Mod Vbraci...	5.701									Lateral
25	M41	Mod Tieback	12.646			Lbyy						Lateral
26	M47	Mod Vbraci...	7.333									Lateral
27	M48	Mod Vbraci...	6.146									Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	OVP	N4	N46			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
2	M4	N3	N45A			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
3	M5	N7	N8			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
4	M6	N9	N10			Standoff Vertical	Column	BAR	A36 Gr.36	Typical
5	M27	N6	N46			RIGID	None	None	RIGID	Typical
6	M28	N5	N45A			RIGID	None	None	RIGID	Typical
7	M7	N14	N16			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
8	M8	N16	N12			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
9	M9	N13	N15			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
10	M10	N15	N11			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
11	M11	N20	N19			Face Vertical	Column	BAR	A36 Gr.36	Typical
12	M12	N18	N17			Face Vertical	Column	BAR	A36 Gr.36	Typical
13	M13	N22	N21			Face Vertical	Column	BAR	A36 Gr.36	Typical
14	M14	N24	N23			Face Vertical	Column	BAR	A36 Gr.36	Typical
15	M15	N8	N9			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
16	M16	N10	N7			Standoff Diago...	Column	BAR	A36 Gr.36	Typical
17	M17	N26	N27			Mast Pipe	Column	Pipe	A53 Gr. B	Typical
18	M18	N28	N30			RIGID	None	None	RIGID	Typical
19	M19	N29	N31			RIGID	None	None	RIGID	Typical
20	M20	N32	N25			Tieback	Beam	Pipe	A53 Gr. B	Typical
21	M21	N34	N36			RIGID	None	None	RIGID	Typical
22	M22	N33	N35			RIGID	None	None	RIGID	Typical
23	MP1A	N37	N38			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
24	M24	N40	N42			RIGID	None	None	RIGID	Typical
25	M25	N39	N41			RIGID	None	None	RIGID	Typical
26	MP2A	N43	N44			Dual Mount Pipe	Column	Pipe	A53 Gr. B	Typical
27	M27A	N46A	N48			RIGID	None	None	RIGID	Typical
28	M28A	N45	N47			RIGID	None	None	RIGID	Typical
29	MP3A	N49	N50			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
30	M30	N52	N54			RIGID	None	None	RIGID	Typical
31	M31	N51	N53			RIGID	None	None	RIGID	Typical
32	MP4A	N55	N56			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
33	M33	N58	N57			Face Vertical	Column	BAR	A36 Gr.36	Typical
34	M34	N63	N64			RIGID	None	None	RIGID	Typical
35	M35	N65	N66			RIGID	None	None	RIGID	Typical
36	M36	N67	N68			RIGID	None	None	RIGID	Typical
37	M37	N69	N70			RIGID	None	None	RIGID	Typical
38	M38	N61	N62			Mod Face Hori...	Beam	Pipe	A53 Gr. B	Typical
39	M39	N74	N71			Mod Vbracing ...	Column	Single Angle	A36 Gr.36	Typical
40	M40	N73	N71		270	Mod Vbracing ...	Column	Single Angle	A36 Gr.36	Typical
41	M41	N75	N76			Mod Tieback	Beam	Pipe	A53 Gr. B	Typical
42	M47	N90	N87			Mod Vbracing ...	Column	Single Angle	A36 Gr.36	Typical
43	M48	N89	N87		270	Mod Vbracing ...	Column	Single Angle	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	OVP	OOOOXO					Yes	Default			None
2	M4	OOOOXO					Yes	Default			None
3	M5	BenPIN	BenPIN				Yes	** NA **			None
4	M6	BenPIN	BenPIN				Yes	** NA **			None
5	M27						Yes	** NA **			None
6	M28						Yes	** NA **			None
7	M7						Yes				None
8	M8						Yes	Default			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
9	M9						Yes				None
10	M10						Yes				None
11	M11	BenPIN	BenPIN				Yes	** NA **			None
12	M12	BenPIN	BenPIN				Yes	** NA **			None
13	M13	BenPIN	BenPIN				Yes	** NA **			None
14	M14	BenPIN	BenPIN				Yes	** NA **			None
15	M15	BenPIN	BenPIN				Yes	** NA **			None
16	M16	BenPIN	BenPIN				Yes	** NA **			None
17	M17						Yes	** NA **			None
18	M18		OOOOOO				Yes	** NA **			None
19	M19		OOOOOO				Yes	** NA **			None
20	M20		BenPIN				Yes				None
21	M21						Yes	** NA **			None
22	M22						Yes	** NA **			None
23	MP1A						Yes	** NA **			None
24	M24						Yes	** NA **			None
25	M25						Yes	** NA **			None
26	MP2A						Yes	** NA **			None
27	M27A						Yes	** NA **			None
28	M28A						Yes	** NA **			None
29	MP3A						Yes	** NA **			None
30	M30						Yes	** NA **			None
31	M31						Yes	** NA **			None
32	MP4A						Yes	** NA **			None
33	M33	BenPIN	BenPIN				Yes	** NA **			None
34	M34						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	M36						Yes	** NA **			None
37	M37						Yes	** NA **			None
38	M38						Yes				None
39	M39	BenPIN	BenPIN				Yes	** NA **			None
40	M40	BenPIN	BenPIN				Yes	** NA **			None
41	M41	BenPIN					Yes	Default			None
42	M47	BenPIN	BenPIN				Yes	** NA **			None
43	M48	BenPIN	BenPIN				Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	Y	-40.1	.83
2	MP2A	My	-.03	.83
3	MP2A	Mz	.027	.83
4	MP2A	Y	-40.1	5.83
5	MP2A	My	-.03	5.83
6	MP2A	Mz	.027	5.83
7	MP2A	Y	-40.1	.83
8	MP2A	My	-.03	.83
9	MP2A	Mz	-.027	.83
10	MP2A	Y	-40.1	5.83
11	MP2A	My	-.03	5.83
12	MP2A	Mz	-.027	5.83
13	MP3A	Y	-43.55	2.33
14	MP3A	My	-.033	2.33
15	MP3A	Mz	0	2.33
16	MP3A	Y	-43.55	4.33
17	MP3A	My	-.033	4.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP3A	Mz	0	4.33
19	MP1A	Y	-52.9	3.5
20	MP1A	My	.026	3.5
21	MP1A	Mz	0	3.5
22	OVP	Y	-32	2
23	OVP	My	0	2
24	OVP	Mz	0	2
25	MP3A	Y	-84.4	3.5
26	MP3A	My	.042	3.5
27	MP3A	Mz	0	3.5
28	MP2A	Y	-70.3	3.5
29	MP2A	My	.035	3.5
30	MP2A	Mz	0	3.5
31	MP2A	Y	-10.4	2
32	MP2A	My	.005	2
33	MP2A	Mz	0	2

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-92.768	.83
2	MP2A	My	-.07	.83
3	MP2A	Mz	.062	.83
4	MP2A	Y	-92.768	5.83
5	MP2A	My	-.07	5.83
6	MP2A	Mz	.062	5.83
7	MP2A	Y	-92.768	.83
8	MP2A	My	-.07	.83
9	MP2A	Mz	-.062	.83
10	MP2A	Y	-92.768	5.83
11	MP2A	My	-.07	5.83
12	MP2A	Mz	-.062	5.83
13	MP3A	Y	-36.299	2.33
14	MP3A	My	-.027	2.33
15	MP3A	Mz	0	2.33
16	MP3A	Y	-36.299	4.33
17	MP3A	My	-.027	4.33
18	MP3A	Mz	0	4.33
19	MP1A	Y	-38.122	3.5
20	MP1A	My	.019	3.5
21	MP1A	Mz	0	3.5
22	OVP	Y	-89.576	2
23	OVP	My	0	2
24	OVP	Mz	0	2
25	MP3A	Y	-45.777	3.5
26	MP3A	My	.023	3.5
27	MP3A	Mz	0	3.5
28	MP2A	Y	-41.174	3.5
29	MP2A	My	.021	3.5
30	MP2A	Mz	0	3.5
31	MP2A	Y	-10.976	2
32	MP2A	My	.005	2
33	MP2A	Mz	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2A	Z	-204.512	.83
3	MP2A	Mx	-.136	.83
4	MP2A	X	0	5.83
5	MP2A	Z	-204.512	5.83
6	MP2A	Mx	-.136	5.83
7	MP2A	X	0	.83
8	MP2A	Z	-204.512	.83
9	MP2A	Mx	.136	.83
10	MP2A	X	0	5.83
11	MP2A	Z	-204.512	5.83
12	MP2A	Mx	.136	5.83
13	MP3A	X	0	2.33
14	MP3A	Z	-75.036	2.33
15	MP3A	Mx	0	2.33
16	MP3A	X	0	4.33
17	MP3A	Z	-75.036	4.33
18	MP3A	Mx	0	4.33
19	MP1A	X	0	3.5
20	MP1A	Z	-62.583	3.5
21	MP1A	Mx	0	3.5
22	OVP	X	0	2
23	OVP	Z	-126.041	2
24	OVP	Mx	0	2
25	MP3A	X	0	3.5
26	MP3A	Z	-59.709	3.5
27	MP3A	Mx	0	3.5
28	MP2A	X	0	3.5
29	MP2A	Z	-59.709	3.5
30	MP2A	Mx	0	3.5
31	MP2A	X	0	2
32	MP2A	Z	-11.814	2
33	MP2A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	93.611	.83
2	MP2A	Z	-162.139	.83
3	MP2A	Mx	-.178	.83
4	MP2A	X	93.611	5.83
5	MP2A	Z	-162.139	5.83
6	MP2A	Mx	-.178	5.83
7	MP2A	X	93.611	.83
8	MP2A	Z	-162.139	.83
9	MP2A	Mx	.038	.83
10	MP2A	X	93.611	5.83
11	MP2A	Z	-162.139	5.83
12	MP2A	Mx	.038	5.83
13	MP3A	X	31.81	2.33
14	MP3A	Z	-55.097	2.33
15	MP3A	Mx	-.024	2.33
16	MP3A	X	31.81	4.33
17	MP3A	Z	-55.097	4.33
18	MP3A	Mx	-.024	4.33
19	MP1A	X	26.747	3.5
20	MP1A	Z	-46.327	3.5
21	MP1A	Mx	.013	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	OVP	X	64.355	2
23	OVP	Z	-111.466	2
24	OVP	Mx	0	2
25	MP3A	X	27.38	3.5
26	MP3A	Z	-47.424	3.5
27	MP3A	Mx	.014	3.5
28	MP2A	X	26.432	3.5
29	MP2A	Z	-45.782	3.5
30	MP2A	Mx	.013	3.5
31	MP2A	X	5.452	2
32	MP2A	Z	-9.443	2
33	MP2A	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	132.19	.83
2	MP2A	Z	-76.32	.83
3	MP2A	Mx	-.15	.83
4	MP2A	X	132.19	5.83
5	MP2A	Z	-76.32	5.83
6	MP2A	Mx	-.15	5.83
7	MP2A	X	132.19	.83
8	MP2A	Z	-76.32	.83
9	MP2A	Mx	-.048	.83
10	MP2A	X	132.19	5.83
11	MP2A	Z	-76.32	5.83
12	MP2A	Mx	-.048	5.83
13	MP3A	X	35.326	2.33
14	MP3A	Z	-20.396	2.33
15	MP3A	Mx	-.026	2.33
16	MP3A	X	35.326	4.33
17	MP3A	Z	-20.396	4.33
18	MP3A	Mx	-.026	4.33
19	MP1A	X	30.583	3.5
20	MP1A	Z	-17.657	3.5
21	MP1A	Mx	.015	3.5
22	OVP	X	101.271	2
23	OVP	Z	-58.469	2
24	OVP	Mx	0	2
25	MP3A	X	38.851	3.5
26	MP3A	Z	-22.431	3.5
27	MP3A	Mx	.019	3.5
28	MP2A	X	33.926	3.5
29	MP2A	Z	-19.587	3.5
30	MP2A	Mx	.017	3.5
31	MP2A	X	7.867	2
32	MP2A	Z	-4.542	2
33	MP2A	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	135.35	.83
2	MP2A	Z	0	.83
3	MP2A	Mx	-.102	.83
4	MP2A	X	135.35	5.83
5	MP2A	Z	0	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	-.102	5.83
7	MP2A	X	135.35	.83
8	MP2A	Z	0	.83
9	MP2A	Mx	-.102	.83
10	MP2A	X	135.35	5.83
11	MP2A	Z	0	5.83
12	MP2A	Mx	-.102	5.83
13	MP3A	X	29.376	2.33
14	MP3A	Z	0	2.33
15	MP3A	Mx	-.022	2.33
16	MP3A	X	29.376	4.33
17	MP3A	Z	0	4.33
18	MP3A	Mx	-.022	4.33
19	MP1A	X	26.225	3.5
20	MP1A	Z	0	3.5
21	MP1A	Mx	.013	3.5
22	OVP	X	102.499	2
23	OVP	Z	0	2
24	OVP	Mx	0	2
25	MP3A	X	39.913	3.5
26	MP3A	Z	0	3.5
27	MP3A	Mx	.02	3.5
28	MP2A	X	32.329	3.5
29	MP2A	Z	0	3.5
30	MP2A	Mx	.016	3.5
31	MP2A	X	8.174	2
32	MP2A	Z	0	2
33	MP2A	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	132.19	.83
2	MP2A	Z	76.32	.83
3	MP2A	Mx	-.048	.83
4	MP2A	X	132.19	5.83
5	MP2A	Z	76.32	5.83
6	MP2A	Mx	-.048	5.83
7	MP2A	X	132.19	.83
8	MP2A	Z	76.32	.83
9	MP2A	Mx	-.15	.83
10	MP2A	X	132.19	5.83
11	MP2A	Z	76.32	5.83
12	MP2A	Mx	-.15	5.83
13	MP3A	X	35.326	2.33
14	MP3A	Z	20.396	2.33
15	MP3A	Mx	-.026	2.33
16	MP3A	X	35.326	4.33
17	MP3A	Z	20.396	4.33
18	MP3A	Mx	-.026	4.33
19	MP1A	X	30.583	3.5
20	MP1A	Z	17.657	3.5
21	MP1A	Mx	.015	3.5
22	OVP	X	86.456	2
23	OVP	Z	49.915	2
24	OVP	Mx	0	2
25	MP3A	X	38.851	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP3A	Z	22.431	3.5
27	MP3A	Mx	.019	3.5
28	MP2A	X	33.926	3.5
29	MP2A	Z	19.587	3.5
30	MP2A	Mx	.017	3.5
31	MP2A	X	7.867	2
32	MP2A	Z	4.542	2
33	MP2A	Mx	.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	93.611	.83
2	MP2A	Z	162.139	.83
3	MP2A	Mx	.038	.83
4	MP2A	X	93.611	5.83
5	MP2A	Z	162.139	5.83
6	MP2A	Mx	.038	5.83
7	MP2A	X	93.611	.83
8	MP2A	Z	162.139	.83
9	MP2A	Mx	-.178	.83
10	MP2A	X	93.611	5.83
11	MP2A	Z	162.139	5.83
12	MP2A	Mx	-.178	5.83
13	MP3A	X	31.81	2.33
14	MP3A	Z	55.097	2.33
15	MP3A	Mx	-.024	2.33
16	MP3A	X	31.81	4.33
17	MP3A	Z	55.097	4.33
18	MP3A	Mx	-.024	4.33
19	MP1A	X	26.747	3.5
20	MP1A	Z	46.327	3.5
21	MP1A	Mx	.013	3.5
22	OVP	X	55.801	2
23	OVP	Z	96.65	2
24	OVP	Mx	0	2
25	MP3A	X	27.38	3.5
26	MP3A	Z	47.424	3.5
27	MP3A	Mx	.014	3.5
28	MP2A	X	26.432	3.5
29	MP2A	Z	45.782	3.5
30	MP2A	Mx	.013	3.5
31	MP2A	X	5.452	2
32	MP2A	Z	9.443	2
33	MP2A	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.83
2	MP2A	Z	204.512	.83
3	MP2A	Mx	.136	.83
4	MP2A	X	0	5.83
5	MP2A	Z	204.512	5.83
6	MP2A	Mx	.136	5.83
7	MP2A	X	0	.83
8	MP2A	Z	204.512	.83
9	MP2A	Mx	-.136	.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2A	X	0	5.83
11	MP2A	Z	204.512	5.83
12	MP2A	Mx	-.136	5.83
13	MP3A	X	0	2.33
14	MP3A	Z	75.036	2.33
15	MP3A	Mx	0	2.33
16	MP3A	X	0	4.33
17	MP3A	Z	75.036	4.33
18	MP3A	Mx	0	4.33
19	MP1A	X	0	3.5
20	MP1A	Z	62.583	3.5
21	MP1A	Mx	0	3.5
22	OVP	X	0	2
23	OVP	Z	126.041	2
24	OVP	Mx	0	2
25	MP3A	X	0	3.5
26	MP3A	Z	59.709	3.5
27	MP3A	Mx	0	3.5
28	MP2A	X	0	3.5
29	MP2A	Z	59.709	3.5
30	MP2A	Mx	0	3.5
31	MP2A	X	0	2
32	MP2A	Z	11.814	2
33	MP2A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-93.611	.83
2	MP2A	Z	162.139	.83
3	MP2A	Mx	.178	.83
4	MP2A	X	-93.611	5.83
5	MP2A	Z	162.139	5.83
6	MP2A	Mx	.178	5.83
7	MP2A	X	-93.611	.83
8	MP2A	Z	162.139	.83
9	MP2A	Mx	-.038	.83
10	MP2A	X	-93.611	5.83
11	MP2A	Z	162.139	5.83
12	MP2A	Mx	-.038	5.83
13	MP3A	X	-31.81	2.33
14	MP3A	Z	55.097	2.33
15	MP3A	Mx	.024	2.33
16	MP3A	X	-31.81	4.33
17	MP3A	Z	55.097	4.33
18	MP3A	Mx	.024	4.33
19	MP1A	X	-26.747	3.5
20	MP1A	Z	46.327	3.5
21	MP1A	Mx	-.013	3.5
22	OVP	X	-64.355	2
23	OVP	Z	111.466	2
24	OVP	Mx	0	2
25	MP3A	X	-27.38	3.5
26	MP3A	Z	47.424	3.5
27	MP3A	Mx	-.014	3.5
28	MP2A	X	-26.432	3.5
29	MP2A	Z	45.782	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2A	Mx	-.013	3.5
31	MP2A	X	-5.452	2
32	MP2A	Z	9.443	2
33	MP2A	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-132.19	.83
2	MP2A	Z	76.32	.83
3	MP2A	Mx	.15	.83
4	MP2A	X	-132.19	5.83
5	MP2A	Z	76.32	5.83
6	MP2A	Mx	.15	5.83
7	MP2A	X	-132.19	.83
8	MP2A	Z	76.32	.83
9	MP2A	Mx	.048	.83
10	MP2A	X	-132.19	5.83
11	MP2A	Z	76.32	5.83
12	MP2A	Mx	.048	5.83
13	MP3A	X	-35.326	2.33
14	MP3A	Z	20.396	2.33
15	MP3A	Mx	.026	2.33
16	MP3A	X	-35.326	4.33
17	MP3A	Z	20.396	4.33
18	MP3A	Mx	.026	4.33
19	MP1A	X	-30.583	3.5
20	MP1A	Z	17.657	3.5
21	MP1A	Mx	-.015	3.5
22	OVP	X	-101.271	2
23	OVP	Z	58.469	2
24	OVP	Mx	0	2
25	MP3A	X	-38.851	3.5
26	MP3A	Z	22.431	3.5
27	MP3A	Mx	-.019	3.5
28	MP2A	X	-33.926	3.5
29	MP2A	Z	19.587	3.5
30	MP2A	Mx	-.017	3.5
31	MP2A	X	-7.867	2
32	MP2A	Z	4.542	2
33	MP2A	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-135.35	.83
2	MP2A	Z	0	.83
3	MP2A	Mx	.102	.83
4	MP2A	X	-135.35	5.83
5	MP2A	Z	0	5.83
6	MP2A	Mx	.102	5.83
7	MP2A	X	-135.35	.83
8	MP2A	Z	0	.83
9	MP2A	Mx	.102	.83
10	MP2A	X	-135.35	5.83
11	MP2A	Z	0	5.83
12	MP2A	Mx	.102	5.83
13	MP3A	X	-29.376	2.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP3A	Z	0	2.33
15	MP3A	Mx	.022	2.33
16	MP3A	X	-29.376	4.33
17	MP3A	Z	0	4.33
18	MP3A	Mx	.022	4.33
19	MP1A	X	-26.225	3.5
20	MP1A	Z	0	3.5
21	MP1A	Mx	-.013	3.5
22	OVP	X	-102.499	2
23	OVP	Z	0	2
24	OVP	Mx	0	2
25	MP3A	X	-39.913	3.5
26	MP3A	Z	0	3.5
27	MP3A	Mx	-.02	3.5
28	MP2A	X	-32.329	3.5
29	MP2A	Z	0	3.5
30	MP2A	Mx	-.016	3.5
31	MP2A	X	-8.174	2
32	MP2A	Z	0	2
33	MP2A	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-132.19	.83
2	MP2A	Z	-76.32	.83
3	MP2A	Mx	.048	.83
4	MP2A	X	-132.19	5.83
5	MP2A	Z	-76.32	5.83
6	MP2A	Mx	.048	5.83
7	MP2A	X	-132.19	.83
8	MP2A	Z	-76.32	.83
9	MP2A	Mx	.15	.83
10	MP2A	X	-132.19	5.83
11	MP2A	Z	-76.32	5.83
12	MP2A	Mx	.15	5.83
13	MP3A	X	-35.326	2.33
14	MP3A	Z	-20.396	2.33
15	MP3A	Mx	.026	2.33
16	MP3A	X	-35.326	4.33
17	MP3A	Z	-20.396	4.33
18	MP3A	Mx	.026	4.33
19	MP1A	X	-30.583	3.5
20	MP1A	Z	-17.657	3.5
21	MP1A	Mx	-.015	3.5
22	OVP	X	-86.456	2
23	OVP	Z	-49.915	2
24	OVP	Mx	0	2
25	MP3A	X	-38.851	3.5
26	MP3A	Z	-22.431	3.5
27	MP3A	Mx	-.019	3.5
28	MP2A	X	-33.926	3.5
29	MP2A	Z	-19.587	3.5
30	MP2A	Mx	-.017	3.5
31	MP2A	X	-7.867	2
32	MP2A	Z	-4.542	2
33	MP2A	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-93.611	.83
2	MP2A	Z	-162.139	.83
3	MP2A	Mx	-.038	.83
4	MP2A	X	-93.611	5.83
5	MP2A	Z	-162.139	5.83
6	MP2A	Mx	-.038	5.83
7	MP2A	X	-93.611	.83
8	MP2A	Z	-162.139	.83
9	MP2A	Mx	.178	.83
10	MP2A	X	-93.611	5.83
11	MP2A	Z	-162.139	5.83
12	MP2A	Mx	.178	5.83
13	MP3A	X	-31.81	2.33
14	MP3A	Z	-55.097	2.33
15	MP3A	Mx	.024	2.33
16	MP3A	X	-31.81	4.33
17	MP3A	Z	-55.097	4.33
18	MP3A	Mx	.024	4.33
19	MP1A	X	-26.747	3.5
20	MP1A	Z	-46.327	3.5
21	MP1A	Mx	-.013	3.5
22	OVP	X	-55.801	2
23	OVP	Z	-96.65	2
24	OVP	Mx	0	2
25	MP3A	X	-27.38	3.5
26	MP3A	Z	-47.424	3.5
27	MP3A	Mx	-.014	3.5
28	MP2A	X	-26.432	3.5
29	MP2A	Z	-45.782	3.5
30	MP2A	Mx	-.013	3.5
31	MP2A	X	-5.452	2
32	MP2A	Z	-9.443	2
33	MP2A	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	.83
2	MP2A	Z	-41.898	.83
3	MP2A	Mx	-.028	.83
4	MP2A	X	0	5.83
5	MP2A	Z	-41.898	5.83
6	MP2A	Mx	-.028	5.83
7	MP2A	X	0	.83
8	MP2A	Z	-41.898	.83
9	MP2A	Mx	.028	.83
10	MP2A	X	0	5.83
11	MP2A	Z	-41.898	5.83
12	MP2A	Mx	.028	5.83
13	MP3A	X	0	2.33
14	MP3A	Z	-16.057	2.33
15	MP3A	Mx	0	2.33
16	MP3A	X	0	4.33
17	MP3A	Z	-16.057	4.33
18	MP3A	Mx	0	4.33
19	MP1A	X	0	3.5
20	MP1A	Z	-14.044	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	MP1A	Mx	0	3.5
22	OVP	X	0	2
23	OVP	Z	-27.105	2
24	OVP	Mx	0	2
25	MP3A	X	0	3.5
26	MP3A	Z	-13.546	3.5
27	MP3A	Mx	0	3.5
28	MP2A	X	0	3.5
29	MP2A	Z	-13.546	3.5
30	MP2A	Mx	0	3.5
31	MP2A	X	0	2
32	MP2A	Z	-3.299	2
33	MP2A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	19.303	.83
2	MP2A	Z	-33.434	.83
3	MP2A	Mx	-.037	.83
4	MP2A	X	19.303	5.83
5	MP2A	Z	-33.434	5.83
6	MP2A	Mx	-.037	5.83
7	MP2A	X	19.303	.83
8	MP2A	Z	-33.434	.83
9	MP2A	Mx	.008	.83
10	MP2A	X	19.303	5.83
11	MP2A	Z	-33.434	5.83
12	MP2A	Mx	.008	5.83
13	MP3A	X	6.877	2.33
14	MP3A	Z	-11.912	2.33
15	MP3A	Mx	-.005	2.33
16	MP3A	X	6.877	4.33
17	MP3A	Z	-11.912	4.33
18	MP3A	Mx	-.005	4.33
19	MP1A	X	6.094	3.5
20	MP1A	Z	-10.555	3.5
21	MP1A	Mx	.003	3.5
22	OVP	X	13.816	2
23	OVP	Z	-23.929	2
24	OVP	Mx	0	2
25	MP3A	X	6.258	3.5
26	MP3A	Z	-10.84	3.5
27	MP3A	Mx	.003	3.5
28	MP2A	X	6.063	3.5
29	MP2A	Z	-10.501	3.5
30	MP2A	Mx	.003	3.5
31	MP2A	X	1.547	2
32	MP2A	Z	-2.679	2
33	MP2A	Mx	.000774	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	27.734	.83
2	MP2A	Z	-16.012	.83
3	MP2A	Mx	-.031	.83
4	MP2A	X	27.734	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
5	MP2A	Z	-16.012	5.83
6	MP2A	Mx	-.031	5.83
7	MP2A	X	27.734	.83
8	MP2A	Z	-16.012	.83
9	MP2A	Mx	-.01	.83
10	MP2A	X	27.734	5.83
11	MP2A	Z	-16.012	5.83
12	MP2A	Mx	-.01	5.83
13	MP3A	X	7.925	2.33
14	MP3A	Z	-4.576	2.33
15	MP3A	Mx	-.006	2.33
16	MP3A	X	7.925	4.33
17	MP3A	Z	-4.576	4.33
18	MP3A	Mx	-.006	4.33
19	MP1A	X	7.341	3.5
20	MP1A	Z	-4.238	3.5
21	MP1A	Mx	.004	3.5
22	OVP	X	21.921	2
23	OVP	Z	-12.656	2
24	OVP	Mx	0	2
25	MP3A	X	9.057	3.5
26	MP3A	Z	-5.229	3.5
27	MP3A	Mx	.005	3.5
28	MP2A	X	8.041	3.5
29	MP2A	Z	-4.642	3.5
30	MP2A	Mx	.004	3.5
31	MP2A	X	2.324	2
32	MP2A	Z	-1.342	2
33	MP2A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	28.733	.83
2	MP2A	Z	0	.83
3	MP2A	Mx	-.022	.83
4	MP2A	X	28.733	5.83
5	MP2A	Z	0	5.83
6	MP2A	Mx	-.022	5.83
7	MP2A	X	28.733	.83
8	MP2A	Z	0	.83
9	MP2A	Mx	-.022	.83
10	MP2A	X	28.733	5.83
11	MP2A	Z	0	5.83
12	MP2A	Mx	-.022	5.83
13	MP3A	X	6.85	2.33
14	MP3A	Z	0	2.33
15	MP3A	Mx	-.005	2.33
16	MP3A	X	6.85	4.33
17	MP3A	Z	0	4.33
18	MP3A	Mx	-.005	4.33
19	MP1A	X	6.621	3.5
20	MP1A	Z	0	3.5
21	MP1A	Mx	.003	3.5
22	OVP	X	22.467	2
23	OVP	Z	0	2
24	OVP	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
25	MP3A	X	9.429	3.5
26	MP3A	Z	0	3.5
27	MP3A	Mx	.005	3.5
28	MP2A	X	7.864	3.5
29	MP2A	Z	0	3.5
30	MP2A	Mx	.004	3.5
31	MP2A	X	2.478	2
32	MP2A	Z	0	2
33	MP2A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	27.734	.83
2	MP2A	Z	16.012	.83
3	MP2A	Mx	-.01	.83
4	MP2A	X	27.734	5.83
5	MP2A	Z	16.012	5.83
6	MP2A	Mx	-.01	5.83
7	MP2A	X	27.734	.83
8	MP2A	Z	16.012	.83
9	MP2A	Mx	-.031	.83
10	MP2A	X	27.734	5.83
11	MP2A	Z	16.012	5.83
12	MP2A	Mx	-.031	5.83
13	MP3A	X	7.925	2.33
14	MP3A	Z	4.576	2.33
15	MP3A	Mx	-.006	2.33
16	MP3A	X	7.925	4.33
17	MP3A	Z	4.576	4.33
18	MP3A	Mx	-.006	4.33
19	MP1A	X	7.341	3.5
20	MP1A	Z	4.238	3.5
21	MP1A	Mx	.004	3.5
22	OVP	X	19.001	2
23	OVP	Z	10.97	2
24	OVP	Mx	0	2
25	MP3A	X	9.057	3.5
26	MP3A	Z	5.229	3.5
27	MP3A	Mx	.005	3.5
28	MP2A	X	8.041	3.5
29	MP2A	Z	4.642	3.5
30	MP2A	Mx	.004	3.5
31	MP2A	X	2.324	2
32	MP2A	Z	1.342	2
33	MP2A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	19.303	.83
2	MP2A	Z	33.434	.83
3	MP2A	Mx	.008	.83
4	MP2A	X	19.303	5.83
5	MP2A	Z	33.434	5.83
6	MP2A	Mx	.008	5.83
7	MP2A	X	19.303	.83
8	MP2A	Z	33.434	.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
9	MP2A	Mx	-.037	.83
10	MP2A	X	19.303	5.83
11	MP2A	Z	33.434	5.83
12	MP2A	Mx	-.037	5.83
13	MP3A	X	6.877	2.33
14	MP3A	Z	11.912	2.33
15	MP3A	Mx	-.005	2.33
16	MP3A	X	6.877	4.33
17	MP3A	Z	11.912	4.33
18	MP3A	Mx	-.005	4.33
19	MP1A	X	6.094	3.5
20	MP1A	Z	10.555	3.5
21	MP1A	Mx	.003	3.5
22	OVP	X	12.13	2
23	OVP	Z	21.01	2
24	OVP	Mx	0	2
25	MP3A	X	6.258	3.5
26	MP3A	Z	10.84	3.5
27	MP3A	Mx	.003	3.5
28	MP2A	X	6.063	3.5
29	MP2A	Z	10.501	3.5
30	MP2A	Mx	.003	3.5
31	MP2A	X	1.547	2
32	MP2A	Z	2.679	2
33	MP2A	Mx	.000774	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	.83
2	MP2A	Z	41.898	.83
3	MP2A	Mx	.028	.83
4	MP2A	X	0	5.83
5	MP2A	Z	41.898	5.83
6	MP2A	Mx	.028	5.83
7	MP2A	X	0	.83
8	MP2A	Z	41.898	.83
9	MP2A	Mx	-.028	.83
10	MP2A	X	0	5.83
11	MP2A	Z	41.898	5.83
12	MP2A	Mx	-.028	5.83
13	MP3A	X	0	2.33
14	MP3A	Z	16.057	2.33
15	MP3A	Mx	0	2.33
16	MP3A	X	0	4.33
17	MP3A	Z	16.057	4.33
18	MP3A	Mx	0	4.33
19	MP1A	X	0	3.5
20	MP1A	Z	14.044	3.5
21	MP1A	Mx	0	3.5
22	OVP	X	0	2
23	OVP	Z	27.105	2
24	OVP	Mx	0	2
25	MP3A	X	0	3.5
26	MP3A	Z	13.546	3.5
27	MP3A	Mx	0	3.5
28	MP2A	X	0	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP2A	Z	13.546	3.5
30	MP2A	Mx	0	3.5
31	MP2A	X	0	2
32	MP2A	Z	3.299	2
33	MP2A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-19.303	.83
2	MP2A	Z	33.434	.83
3	MP2A	Mx	.037	.83
4	MP2A	X	-19.303	5.83
5	MP2A	Z	33.434	5.83
6	MP2A	Mx	.037	5.83
7	MP2A	X	-19.303	.83
8	MP2A	Z	33.434	.83
9	MP2A	Mx	-.008	.83
10	MP2A	X	-19.303	5.83
11	MP2A	Z	33.434	5.83
12	MP2A	Mx	-.008	5.83
13	MP3A	X	-6.877	2.33
14	MP3A	Z	11.912	2.33
15	MP3A	Mx	.005	2.33
16	MP3A	X	-6.877	4.33
17	MP3A	Z	11.912	4.33
18	MP3A	Mx	.005	4.33
19	MP1A	X	-6.094	3.5
20	MP1A	Z	10.555	3.5
21	MP1A	Mx	-.003	3.5
22	OVP	X	-13.816	2
23	OVP	Z	23.929	2
24	OVP	Mx	0	2
25	MP3A	X	-6.258	3.5
26	MP3A	Z	10.84	3.5
27	MP3A	Mx	-.003	3.5
28	MP2A	X	-6.063	3.5
29	MP2A	Z	10.501	3.5
30	MP2A	Mx	-.003	3.5
31	MP2A	X	-1.547	2
32	MP2A	Z	2.679	2
33	MP2A	Mx	-.000774	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-27.734	.83
2	MP2A	Z	16.012	.83
3	MP2A	Mx	.031	.83
4	MP2A	X	-27.734	5.83
5	MP2A	Z	16.012	5.83
6	MP2A	Mx	.031	5.83
7	MP2A	X	-27.734	.83
8	MP2A	Z	16.012	.83
9	MP2A	Mx	.01	.83
10	MP2A	X	-27.734	5.83
11	MP2A	Z	16.012	5.83
12	MP2A	Mx	.01	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP3A	X	-7.925	2.33
14	MP3A	Z	4.576	2.33
15	MP3A	Mx	.006	2.33
16	MP3A	X	-7.925	4.33
17	MP3A	Z	4.576	4.33
18	MP3A	Mx	.006	4.33
19	MP1A	X	-7.341	3.5
20	MP1A	Z	4.238	3.5
21	MP1A	Mx	-.004	3.5
22	OVP	X	-21.921	2
23	OVP	Z	12.656	2
24	OVP	Mx	0	2
25	MP3A	X	-9.057	3.5
26	MP3A	Z	5.229	3.5
27	MP3A	Mx	-.005	3.5
28	MP2A	X	-8.041	3.5
29	MP2A	Z	4.642	3.5
30	MP2A	Mx	-.004	3.5
31	MP2A	X	-2.324	2
32	MP2A	Z	1.342	2
33	MP2A	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-28.733	.83
2	MP2A	Z	0	.83
3	MP2A	Mx	.022	.83
4	MP2A	X	-28.733	5.83
5	MP2A	Z	0	5.83
6	MP2A	Mx	.022	5.83
7	MP2A	X	-28.733	.83
8	MP2A	Z	0	.83
9	MP2A	Mx	.022	.83
10	MP2A	X	-28.733	5.83
11	MP2A	Z	0	5.83
12	MP2A	Mx	.022	5.83
13	MP3A	X	-6.85	2.33
14	MP3A	Z	0	2.33
15	MP3A	Mx	.005	2.33
16	MP3A	X	-6.85	4.33
17	MP3A	Z	0	4.33
18	MP3A	Mx	.005	4.33
19	MP1A	X	-6.621	3.5
20	MP1A	Z	0	3.5
21	MP1A	Mx	-.003	3.5
22	OVP	X	-22.467	2
23	OVP	Z	0	2
24	OVP	Mx	0	2
25	MP3A	X	-9.429	3.5
26	MP3A	Z	0	3.5
27	MP3A	Mx	-.005	3.5
28	MP2A	X	-7.864	3.5
29	MP2A	Z	0	3.5
30	MP2A	Mx	-.004	3.5
31	MP2A	X	-2.478	2
32	MP2A	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
33	MP2A	Mx	-0.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-27.734	.83
2	MP2A	Z	-16.012	.83
3	MP2A	Mx	.01	.83
4	MP2A	X	-27.734	5.83
5	MP2A	Z	-16.012	5.83
6	MP2A	Mx	.01	5.83
7	MP2A	X	-27.734	.83
8	MP2A	Z	-16.012	.83
9	MP2A	Mx	.031	.83
10	MP2A	X	-27.734	5.83
11	MP2A	Z	-16.012	5.83
12	MP2A	Mx	.031	5.83
13	MP3A	X	-7.925	2.33
14	MP3A	Z	-4.576	2.33
15	MP3A	Mx	.006	2.33
16	MP3A	X	-7.925	4.33
17	MP3A	Z	-4.576	4.33
18	MP3A	Mx	.006	4.33
19	MP1A	X	-7.341	3.5
20	MP1A	Z	-4.238	3.5
21	MP1A	Mx	-.004	3.5
22	OVP	X	-19.001	2
23	OVP	Z	-10.97	2
24	OVP	Mx	0	2
25	MP3A	X	-9.057	3.5
26	MP3A	Z	-5.229	3.5
27	MP3A	Mx	-.005	3.5
28	MP2A	X	-8.041	3.5
29	MP2A	Z	-4.642	3.5
30	MP2A	Mx	-.004	3.5
31	MP2A	X	-2.324	2
32	MP2A	Z	-1.342	2
33	MP2A	Mx	-0.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-19.303	.83
2	MP2A	Z	-33.434	.83
3	MP2A	Mx	-.008	.83
4	MP2A	X	-19.303	5.83
5	MP2A	Z	-33.434	5.83
6	MP2A	Mx	-.008	5.83
7	MP2A	X	-19.303	.83
8	MP2A	Z	-33.434	.83
9	MP2A	Mx	.037	.83
10	MP2A	X	-19.303	5.83
11	MP2A	Z	-33.434	5.83
12	MP2A	Mx	.037	5.83
13	MP3A	X	-6.877	2.33
14	MP3A	Z	-11.912	2.33
15	MP3A	Mx	.005	2.33
16	MP3A	X	-6.877	4.33

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
17	MP3A	Z	-11.912	4.33
18	MP3A	Mx	.005	4.33
19	MP1A	X	-6.094	3.5
20	MP1A	Z	-10.555	3.5
21	MP1A	Mx	-.003	3.5
22	OVP	X	-12.13	2
23	OVP	Z	-21.01	2
24	OVP	Mx	0	2
25	MP3A	X	-6.258	3.5
26	MP3A	Z	-10.84	3.5
27	MP3A	Mx	-.003	3.5
28	MP2A	X	-6.063	3.5
29	MP2A	Z	-10.501	3.5
30	MP2A	Mx	-.003	3.5
31	MP2A	X	-1.547	2
32	MP2A	Z	-2.679	2
33	MP2A	Mx	-.000774	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	.83
2	MP2A	Z	-13.918	.83
3	MP2A	Mx	-.009	.83
4	MP2A	X	0	5.83
5	MP2A	Z	-13.918	5.83
6	MP2A	Mx	-.009	5.83
7	MP2A	X	0	.83
8	MP2A	Z	-13.918	.83
9	MP2A	Mx	.009	.83
10	MP2A	X	0	5.83
11	MP2A	Z	-13.918	5.83
12	MP2A	Mx	.009	5.83
13	MP3A	X	0	2.33
14	MP3A	Z	-5.106	2.33
15	MP3A	Mx	0	2.33
16	MP3A	X	0	4.33
17	MP3A	Z	-5.106	4.33
18	MP3A	Mx	0	4.33
19	MP1A	X	0	3.5
20	MP1A	Z	-4.259	3.5
21	MP1A	Mx	0	3.5
22	OVP	X	0	2
23	OVP	Z	-8.577	2
24	OVP	Mx	0	2
25	MP3A	X	0	3.5
26	MP3A	Z	-4.063	3.5
27	MP3A	Mx	0	3.5
28	MP2A	X	0	3.5
29	MP2A	Z	-4.063	3.5
30	MP2A	Mx	0	3.5
31	MP2A	X	0	2
32	MP2A	Z	-.804	2
33	MP2A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	6.37	.83
2	MP2A	Z	-11.034	.83
3	MP2A	Mx	-.012	.83
4	MP2A	X	6.37	5.83
5	MP2A	Z	-11.034	5.83
6	MP2A	Mx	-.012	5.83
7	MP2A	X	6.37	.83
8	MP2A	Z	-11.034	.83
9	MP2A	Mx	.003	.83
10	MP2A	X	6.37	5.83
11	MP2A	Z	-11.034	5.83
12	MP2A	Mx	.003	5.83
13	MP3A	X	2.165	2.33
14	MP3A	Z	-3.75	2.33
15	MP3A	Mx	-.002	2.33
16	MP3A	X	2.165	4.33
17	MP3A	Z	-3.75	4.33
18	MP3A	Mx	-.002	4.33
19	MP1A	X	1.82	3.5
20	MP1A	Z	-3.153	3.5
21	MP1A	Mx	.00091	3.5
22	OVP	X	4.38	2
23	OVP	Z	-7.586	2
24	OVP	Mx	0	2
25	MP3A	X	1.863	3.5
26	MP3A	Z	-3.227	3.5
27	MP3A	Mx	.000932	3.5
28	MP2A	X	1.799	3.5
29	MP2A	Z	-3.116	3.5
30	MP2A	Mx	.0009	3.5
31	MP2A	X	.371	2
32	MP2A	Z	-.643	2
33	MP2A	Mx	.000186	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	8.996	.83
2	MP2A	Z	-5.194	.83
3	MP2A	Mx	-.01	.83
4	MP2A	X	8.996	5.83
5	MP2A	Z	-5.194	5.83
6	MP2A	Mx	-.01	5.83
7	MP2A	X	8.996	.83
8	MP2A	Z	-5.194	.83
9	MP2A	Mx	-.003	.83
10	MP2A	X	8.996	5.83
11	MP2A	Z	-5.194	5.83
12	MP2A	Mx	-.003	5.83
13	MP3A	X	2.404	2.33
14	MP3A	Z	-1.388	2.33
15	MP3A	Mx	-.002	2.33
16	MP3A	X	2.404	4.33
17	MP3A	Z	-1.388	4.33
18	MP3A	Mx	-.002	4.33
19	MP1A	X	2.081	3.5
20	MP1A	Z	-1.202	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	MP1A	Mx	.001	3.5
22	OVP	X	6.892	2
23	OVP	Z	-3.979	2
24	OVP	Mx	0	2
25	MP3A	X	2.644	3.5
26	MP3A	Z	-1.526	3.5
27	MP3A	Mx	.001	3.5
28	MP2A	X	2.309	3.5
29	MP2A	Z	-1.333	3.5
30	MP2A	Mx	.001	3.5
31	MP2A	X	.535	2
32	MP2A	Z	-.309	2
33	MP2A	Mx	.000268	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	9.211	.83
2	MP2A	Z	0	.83
3	MP2A	Mx	-.007	.83
4	MP2A	X	9.211	5.83
5	MP2A	Z	0	5.83
6	MP2A	Mx	-.007	5.83
7	MP2A	X	9.211	.83
8	MP2A	Z	0	.83
9	MP2A	Mx	-.007	.83
10	MP2A	X	9.211	5.83
11	MP2A	Z	0	5.83
12	MP2A	Mx	-.007	5.83
13	MP3A	X	1.999	2.33
14	MP3A	Z	0	2.33
15	MP3A	Mx	-.001	2.33
16	MP3A	X	1.999	4.33
17	MP3A	Z	0	4.33
18	MP3A	Mx	-.001	4.33
19	MP1A	X	1.785	3.5
20	MP1A	Z	0	3.5
21	MP1A	Mx	.000892	3.5
22	OVP	X	6.975	2
23	OVP	Z	0	2
24	OVP	Mx	0	2
25	MP3A	X	2.716	3.5
26	MP3A	Z	0	3.5
27	MP3A	Mx	.001	3.5
28	MP2A	X	2.2	3.5
29	MP2A	Z	0	3.5
30	MP2A	Mx	.001	3.5
31	MP2A	X	.556	2
32	MP2A	Z	0	2
33	MP2A	Mx	.000278	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	8.996	.83
2	MP2A	Z	5.194	.83
3	MP2A	Mx	-.003	.83
4	MP2A	X	8.996	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2A	Z	5.194	5.83
6	MP2A	Mx	-.003	5.83
7	MP2A	X	8.996	.83
8	MP2A	Z	5.194	.83
9	MP2A	Mx	-.01	.83
10	MP2A	X	8.996	5.83
11	MP2A	Z	5.194	5.83
12	MP2A	Mx	-.01	5.83
13	MP3A	X	2.404	2.33
14	MP3A	Z	1.388	2.33
15	MP3A	Mx	-.002	2.33
16	MP3A	X	2.404	4.33
17	MP3A	Z	1.388	4.33
18	MP3A	Mx	-.002	4.33
19	MP1A	X	2.081	3.5
20	MP1A	Z	1.202	3.5
21	MP1A	Mx	.001	3.5
22	OVP	X	5.884	2
23	OVP	Z	3.397	2
24	OVP	Mx	0	2
25	MP3A	X	2.644	3.5
26	MP3A	Z	1.526	3.5
27	MP3A	Mx	.001	3.5
28	MP2A	X	2.309	3.5
29	MP2A	Z	1.333	3.5
30	MP2A	Mx	.001	3.5
31	MP2A	X	.535	2
32	MP2A	Z	.309	2
33	MP2A	Mx	.000268	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	6.37	.83
2	MP2A	Z	11.034	.83
3	MP2A	Mx	.003	.83
4	MP2A	X	6.37	5.83
5	MP2A	Z	11.034	5.83
6	MP2A	Mx	.003	5.83
7	MP2A	X	6.37	.83
8	MP2A	Z	11.034	.83
9	MP2A	Mx	-.012	.83
10	MP2A	X	6.37	5.83
11	MP2A	Z	11.034	5.83
12	MP2A	Mx	-.012	5.83
13	MP3A	X	2.165	2.33
14	MP3A	Z	3.75	2.33
15	MP3A	Mx	-.002	2.33
16	MP3A	X	2.165	4.33
17	MP3A	Z	3.75	4.33
18	MP3A	Mx	-.002	4.33
19	MP1A	X	1.82	3.5
20	MP1A	Z	3.153	3.5
21	MP1A	Mx	.00091	3.5
22	OVP	X	3.797	2
23	OVP	Z	6.577	2
24	OVP	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
25	MP3A	X	1.863	3.5
26	MP3A	Z	3.227	3.5
27	MP3A	Mx	.000932	3.5
28	MP2A	X	1.799	3.5
29	MP2A	Z	3.116	3.5
30	MP2A	Mx	.0009	3.5
31	MP2A	X	.371	2
32	MP2A	Z	.643	2
33	MP2A	Mx	.000186	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	.83
2	MP2A	Z	13.918	.83
3	MP2A	Mx	.009	.83
4	MP2A	X	0	5.83
5	MP2A	Z	13.918	5.83
6	MP2A	Mx	.009	5.83
7	MP2A	X	0	.83
8	MP2A	Z	13.918	.83
9	MP2A	Mx	-.009	.83
10	MP2A	X	0	5.83
11	MP2A	Z	13.918	5.83
12	MP2A	Mx	-.009	5.83
13	MP3A	X	0	2.33
14	MP3A	Z	5.106	2.33
15	MP3A	Mx	0	2.33
16	MP3A	X	0	4.33
17	MP3A	Z	5.106	4.33
18	MP3A	Mx	0	4.33
19	MP1A	X	0	3.5
20	MP1A	Z	4.259	3.5
21	MP1A	Mx	0	3.5
22	OVP	X	0	2
23	OVP	Z	8.577	2
24	OVP	Mx	0	2
25	MP3A	X	0	3.5
26	MP3A	Z	4.063	3.5
27	MP3A	Mx	0	3.5
28	MP2A	X	0	3.5
29	MP2A	Z	4.063	3.5
30	MP2A	Mx	0	3.5
31	MP2A	X	0	2
32	MP2A	Z	.804	2
33	MP2A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-6.37	.83
2	MP2A	Z	11.034	.83
3	MP2A	Mx	.012	.83
4	MP2A	X	-6.37	5.83
5	MP2A	Z	11.034	5.83
6	MP2A	Mx	.012	5.83
7	MP2A	X	-6.37	.83
8	MP2A	Z	11.034	.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
9	MP2A	Mx	-.003	.83
10	MP2A	X	-6.37	5.83
11	MP2A	Z	11.034	5.83
12	MP2A	Mx	-.003	5.83
13	MP3A	X	-2.165	2.33
14	MP3A	Z	3.75	2.33
15	MP3A	Mx	.002	2.33
16	MP3A	X	-2.165	4.33
17	MP3A	Z	3.75	4.33
18	MP3A	Mx	.002	4.33
19	MP1A	X	-1.82	3.5
20	MP1A	Z	3.153	3.5
21	MP1A	Mx	-.00091	3.5
22	OVP	X	-4.38	2
23	OVP	Z	7.586	2
24	OVP	Mx	0	2
25	MP3A	X	-1.863	3.5
26	MP3A	Z	3.227	3.5
27	MP3A	Mx	-.000932	3.5
28	MP2A	X	-1.799	3.5
29	MP2A	Z	3.116	3.5
30	MP2A	Mx	-.0009	3.5
31	MP2A	X	-.371	2
32	MP2A	Z	.643	2
33	MP2A	Mx	-.000186	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-8.996	.83
2	MP2A	Z	5.194	.83
3	MP2A	Mx	.01	.83
4	MP2A	X	-8.996	5.83
5	MP2A	Z	5.194	5.83
6	MP2A	Mx	.01	5.83
7	MP2A	X	-8.996	.83
8	MP2A	Z	5.194	.83
9	MP2A	Mx	.003	.83
10	MP2A	X	-8.996	5.83
11	MP2A	Z	5.194	5.83
12	MP2A	Mx	.003	5.83
13	MP3A	X	-2.404	2.33
14	MP3A	Z	1.388	2.33
15	MP3A	Mx	.002	2.33
16	MP3A	X	-2.404	4.33
17	MP3A	Z	1.388	4.33
18	MP3A	Mx	.002	4.33
19	MP1A	X	-2.081	3.5
20	MP1A	Z	1.202	3.5
21	MP1A	Mx	-.001	3.5
22	OVP	X	-6.892	2
23	OVP	Z	3.979	2
24	OVP	Mx	0	2
25	MP3A	X	-2.644	3.5
26	MP3A	Z	1.526	3.5
27	MP3A	Mx	-.001	3.5
28	MP2A	X	-2.309	3.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2A	Z	1.333	3.5
30	MP2A	Mx	-.001	3.5
31	MP2A	X	-.535	2
32	MP2A	Z	.309	2
33	MP2A	Mx	-.000268	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-9.211	.83
2	MP2A	Z	0	.83
3	MP2A	Mx	.007	.83
4	MP2A	X	-9.211	5.83
5	MP2A	Z	0	5.83
6	MP2A	Mx	.007	5.83
7	MP2A	X	-9.211	.83
8	MP2A	Z	0	.83
9	MP2A	Mx	.007	.83
10	MP2A	X	-9.211	5.83
11	MP2A	Z	0	5.83
12	MP2A	Mx	.007	5.83
13	MP3A	X	-1.999	2.33
14	MP3A	Z	0	2.33
15	MP3A	Mx	.001	2.33
16	MP3A	X	-1.999	4.33
17	MP3A	Z	0	4.33
18	MP3A	Mx	.001	4.33
19	MP1A	X	-1.785	3.5
20	MP1A	Z	0	3.5
21	MP1A	Mx	-.000892	3.5
22	OVP	X	-6.975	2
23	OVP	Z	0	2
24	OVP	Mx	0	2
25	MP3A	X	-2.716	3.5
26	MP3A	Z	0	3.5
27	MP3A	Mx	-.001	3.5
28	MP2A	X	-2.2	3.5
29	MP2A	Z	0	3.5
30	MP2A	Mx	-.001	3.5
31	MP2A	X	-.556	2
32	MP2A	Z	0	2
33	MP2A	Mx	-.000278	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.996	.83
2	MP2A	Z	-5.194	.83
3	MP2A	Mx	.003	.83
4	MP2A	X	-8.996	5.83
5	MP2A	Z	-5.194	5.83
6	MP2A	Mx	.003	5.83
7	MP2A	X	-8.996	.83
8	MP2A	Z	-5.194	.83
9	MP2A	Mx	.01	.83
10	MP2A	X	-8.996	5.83
11	MP2A	Z	-5.194	5.83
12	MP2A	Mx	.01	5.83

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
13	MP3A	X	-2.404	2.33
14	MP3A	Z	-1.388	2.33
15	MP3A	Mx	.002	2.33
16	MP3A	X	-2.404	4.33
17	MP3A	Z	-1.388	4.33
18	MP3A	Mx	.002	4.33
19	MP1A	X	-2.081	3.5
20	MP1A	Z	-1.202	3.5
21	MP1A	Mx	-.001	3.5
22	OVP	X	-5.884	2
23	OVP	Z	-3.397	2
24	OVP	Mx	0	2
25	MP3A	X	-2.644	3.5
26	MP3A	Z	-1.526	3.5
27	MP3A	Mx	-.001	3.5
28	MP2A	X	-2.309	3.5
29	MP2A	Z	-1.333	3.5
30	MP2A	Mx	-.001	3.5
31	MP2A	X	-.535	2
32	MP2A	Z	-.309	2
33	MP2A	Mx	-.000268	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-6.37	.83
2	MP2A	Z	-11.034	.83
3	MP2A	Mx	-.003	.83
4	MP2A	X	-6.37	5.83
5	MP2A	Z	-11.034	5.83
6	MP2A	Mx	-.003	5.83
7	MP2A	X	-6.37	.83
8	MP2A	Z	-11.034	.83
9	MP2A	Mx	.012	.83
10	MP2A	X	-6.37	5.83
11	MP2A	Z	-11.034	5.83
12	MP2A	Mx	.012	5.83
13	MP3A	X	-2.165	2.33
14	MP3A	Z	-3.75	2.33
15	MP3A	Mx	.002	2.33
16	MP3A	X	-2.165	4.33
17	MP3A	Z	-3.75	4.33
18	MP3A	Mx	.002	4.33
19	MP1A	X	-1.82	3.5
20	MP1A	Z	-3.153	3.5
21	MP1A	Mx	-.00091	3.5
22	OVP	X	-3.797	2
23	OVP	Z	-6.577	2
24	OVP	Mx	0	2
25	MP3A	X	-1.863	3.5
26	MP3A	Z	-3.227	3.5
27	MP3A	Mx	-.000932	3.5
28	MP2A	X	-1.799	3.5
29	MP2A	Z	-3.116	3.5
30	MP2A	Mx	-.0009	3.5
31	MP2A	X	-.371	2
32	MP2A	Z	-.643	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
33	MP2A	Mx	-.000186	2

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M9	Y	-500	%72

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M10	Y	-500	%46

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	%100

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	OVP	Y	-7.42	-7.42	0	%100
2	M4	Y	-7.42	-7.42	0	%100
3	M5	Y	-3.118	-3.118	0	%100
4	M6	Y	-3.118	-3.118	0	%100
5	M7	Y	-5.09	-5.09	0	%100
6	M8	Y	-5.09	-5.09	0	%100
7	M9	Y	-5.09	-5.09	0	%100
8	M10	Y	-5.09	-5.09	0	%100
9	M11	Y	-3.118	-3.118	0	%100
10	M12	Y	-3.118	-3.118	0	%100
11	M13	Y	-3.118	-3.118	0	%100
12	M14	Y	-3.118	-3.118	0	%100
13	M15	Y	-2.759	-2.759	0	%100
14	M16	Y	-2.759	-2.759	0	%100
15	M17	Y	-8.137	-8.137	0	%100
16	M20	Y	-5.09	-5.09	0	%100
17	MP1A	Y	-5.09	-5.09	0	%100
18	MP2A	Y	-5.807	-5.807	0	%100
19	MP3A	Y	-5.09	-5.09	0	%100
20	MP4A	Y	-5.09	-5.09	0	%100
21	M33	Y	-3.118	-3.118	0	%100
22	M38	Y	-5.807	-5.807	0	%100
23	M39	Y	-6.754	-6.754	0	%100
24	M40	Y	-6.754	-6.754	0	%100
25	M41	Y	-5.09	-5.09	0	%100
26	M47	Y	-6.754	-6.754	0	%100
27	M48	Y	-6.754	-6.754	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	OVP	X	0	0	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
4	M4	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	-3.193	-3.193	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-3.193	-3.193	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-7.583	-7.583	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	-7.266	-7.266	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-7.583	-7.583	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-7.266	-7.266	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-3.193	-3.193	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-3.193	-3.193	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-3.193	-3.193	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-3.193	-3.193	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	-1.399	-1.399	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	-1.399	-1.399	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-10.314	-10.314	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	-.439	-.439	0	%100
33	MP1A	X	0	0	0	%100
34	MP1A	Z	-7.583	-7.583	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-9.18	-9.18	0	%100
37	MP3A	X	0	0	0	%100
38	MP3A	Z	-7.583	-7.583	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	-7.583	-7.583	0	%100
41	M33	X	0	0	0	%100
42	M33	Z	-3.193	-3.193	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	-9.18	-9.18	0	%100
45	M39	X	0	0	0	%100
46	M39	Z	-7.734	-7.734	0	%100
47	M40	X	0	0	0	%100
48	M40	Z	-4.993	-4.993	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	-2.069	-2.069	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-8.28	-8.28	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-6.154	-6.154	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	OVP	X	1.168	1.168	0	%100
2	OVP	Z	-2.023	-2.023	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, %]
3	M4	X	1.168	1.168	0	%100
4	M4	Z	-2.023	-2.023	0	%100
5	M5	X	1.597	1.597	0	%100
6	M5	Z	-2.765	-2.765	0	%100
7	M6	X	1.597	1.597	0	%100
8	M6	Z	-2.765	-2.765	0	%100
9	M7	X	2.844	2.844	0	%100
10	M7	Z	-4.926	-4.926	0	%100
11	M8	X	2.725	2.725	0	%100
12	M8	Z	-4.719	-4.719	0	%100
13	M9	X	2.844	2.844	0	%100
14	M9	Z	-4.926	-4.926	0	%100
15	M10	X	2.725	2.725	0	%100
16	M10	Z	-4.719	-4.719	0	%100
17	M11	X	1.597	1.597	0	%100
18	M11	Z	-2.765	-2.765	0	%100
19	M12	X	1.597	1.597	0	%100
20	M12	Z	-2.765	-2.765	0	%100
21	M13	X	1.597	1.597	0	%100
22	M13	Z	-2.765	-2.765	0	%100
23	M14	X	1.597	1.597	0	%100
24	M14	Z	-2.765	-2.765	0	%100
25	M15	X	.824	.824	0	%100
26	M15	Z	-1.427	-1.427	0	%100
27	M16	X	.824	.824	0	%100
28	M16	Z	-1.427	-1.427	0	%100
29	M17	X	5.157	5.157	0	%100
30	M17	Z	-8.932	-8.932	0	%100
31	M20	X	.291	.291	0	%100
32	M20	Z	-.503	-.503	0	%100
33	MP1A	X	3.792	3.792	0	%100
34	MP1A	Z	-6.567	-6.567	0	%100
35	MP2A	X	4.59	4.59	0	%100
36	MP2A	Z	-7.95	-7.95	0	%100
37	MP3A	X	3.792	3.792	0	%100
38	MP3A	Z	-6.567	-6.567	0	%100
39	MP4A	X	3.792	3.792	0	%100
40	MP4A	Z	-6.567	-6.567	0	%100
41	M33	X	1.597	1.597	0	%100
42	M33	Z	-2.765	-2.765	0	%100
43	M38	X	3.442	3.442	0	%100
44	M38	Z	-5.963	-5.963	0	%100
45	M39	X	.802	.802	0	%100
46	M39	Z	-1.389	-1.389	0	%100
47	M40	X	5.664	5.664	0	%100
48	M40	Z	-9.811	-9.811	0	%100
49	M41	X	.003	.003	0	%100
50	M41	Z	-.004	-.004	0	%100
51	M47	X	1.376	1.376	0	%100
52	M47	Z	-2.384	-2.384	0	%100
53	M48	X	5.802	5.802	0	%100
54	M48	Z	-10.05	-10.05	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	OVP	X	6.068	6.068	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, %]
2	OVP	Z	-3.503	-3.503	0	%100
3	M4	X	6.068	6.068	0	%100
4	M4	Z	-3.503	-3.503	0	%100
5	M5	X	2.765	2.765	0	%100
6	M5	Z	-1.597	-1.597	0	%100
7	M6	X	2.765	2.765	0	%100
8	M6	Z	-1.597	-1.597	0	%100
9	M7	X	1.642	1.642	0	%100
10	M7	Z	-.948	-.948	0	%100
11	M8	X	1.573	1.573	0	%100
12	M8	Z	-.908	-.908	0	%100
13	M9	X	1.642	1.642	0	%100
14	M9	Z	-.948	-.948	0	%100
15	M10	X	1.573	1.573	0	%100
16	M10	Z	-.908	-.908	0	%100
17	M11	X	2.765	2.765	0	%100
18	M11	Z	-1.597	-1.597	0	%100
19	M12	X	2.765	2.765	0	%100
20	M12	Z	-1.597	-1.597	0	%100
21	M13	X	2.765	2.765	0	%100
22	M13	Z	-1.597	-1.597	0	%100
23	M14	X	2.765	2.765	0	%100
24	M14	Z	-1.597	-1.597	0	%100
25	M15	X	1.858	1.858	0	%100
26	M15	Z	-1.073	-1.073	0	%100
27	M16	X	1.858	1.858	0	%100
28	M16	Z	-1.073	-1.073	0	%100
29	M17	X	8.932	8.932	0	%100
30	M17	Z	-5.157	-5.157	0	%100
31	M20	X	3.407	3.407	0	%100
32	M20	Z	-1.967	-1.967	0	%100
33	MP1A	X	6.567	6.567	0	%100
34	MP1A	Z	-3.792	-3.792	0	%100
35	MP2A	X	7.95	7.95	0	%100
36	MP2A	Z	-4.59	-4.59	0	%100
37	MP3A	X	6.567	6.567	0	%100
38	MP3A	Z	-3.792	-3.792	0	%100
39	MP4A	X	6.567	6.567	0	%100
40	MP4A	Z	-3.792	-3.792	0	%100
41	M33	X	2.765	2.765	0	%100
42	M33	Z	-1.597	-1.597	0	%100
43	M38	X	1.988	1.988	0	%100
44	M38	Z	-1.147	-1.147	0	%100
45	M39	X	.519	.519	0	%100
46	M39	Z	-.3	-.3	0	%100
47	M40	X	11.348	11.348	0	%100
48	M40	Z	-6.552	-6.552	0	%100
49	M41	X	1.497	1.497	0	%100
50	M41	Z	-.864	-.864	0	%100
51	M47	X	1.599	1.599	0	%100
52	M47	Z	-.923	-.923	0	%100
53	M48	X	11.372	11.372	0	%100
54	M48	Z	-6.566	-6.566	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, %]
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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.%]
1	OVP	X	9.342	9.342	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	9.342	9.342	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	3.193	3.193	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	3.193	3.193	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	3.193	3.193	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	3.193	3.193	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	3.193	3.193	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	3.193	3.193	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	2.395	2.395	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	2.395	2.395	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	10.314	10.314	0	%100
30	M17	Z	0	0	0	%100
31	M20	X	7.144	7.144	0	%100
32	M20	Z	0	0	0	%100
33	MP1A	X	7.583	7.583	0	%100
34	MP1A	Z	0	0	0	%100
35	MP2A	X	9.18	9.18	0	%100
36	MP2A	Z	0	0	0	%100
37	MP3A	X	7.583	7.583	0	%100
38	MP3A	Z	0	0	0	%100
39	MP4A	X	7.583	7.583	0	%100
40	MP4A	Z	0	0	0	%100
41	M33	X	3.193	3.193	0	%100
42	M33	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39	X	5.725	5.725	0	%100
46	M39	Z	0	0	0	%100
47	M40	X	8.542	8.542	0	%100
48	M40	Z	0	0	0	%100
49	M41	X	5.515	5.515	0	%100
50	M41	Z	0	0	0	%100
51	M47	X	6.469	6.469	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	9.207	9.207	0	%100
54	M48	Z	0	0	0	%100

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

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.%]
1	OVP	X	6.068	6.068	0	%100
2	OVP	Z	3.503	3.503	0	%100
3	M4	X	6.068	6.068	0	%100
4	M4	Z	3.503	3.503	0	%100
5	M5	X	2.765	2.765	0	%100
6	M5	Z	1.597	1.597	0	%100
7	M6	X	2.765	2.765	0	%100
8	M6	Z	1.597	1.597	0	%100
9	M7	X	1.642	1.642	0	%100
10	M7	Z	.948	.948	0	%100
11	M8	X	1.573	1.573	0	%100
12	M8	Z	.908	.908	0	%100
13	M9	X	1.642	1.642	0	%100
14	M9	Z	.948	.948	0	%100
15	M10	X	1.573	1.573	0	%100
16	M10	Z	.908	.908	0	%100
17	M11	X	2.765	2.765	0	%100
18	M11	Z	1.597	1.597	0	%100
19	M12	X	2.765	2.765	0	%100
20	M12	Z	1.597	1.597	0	%100
21	M13	X	2.765	2.765	0	%100
22	M13	Z	1.597	1.597	0	%100
23	M14	X	2.765	2.765	0	%100
24	M14	Z	1.597	1.597	0	%100
25	M15	X	1.858	1.858	0	%100
26	M15	Z	1.073	1.073	0	%100
27	M16	X	1.858	1.858	0	%100
28	M16	Z	1.073	1.073	0	%100
29	M17	X	8.932	8.932	0	%100
30	M17	Z	5.157	5.157	0	%100
31	M20	X	6.064	6.064	0	%100
32	M20	Z	3.501	3.501	0	%100
33	MP1A	X	6.567	6.567	0	%100
34	MP1A	Z	3.792	3.792	0	%100
35	MP2A	X	7.95	7.95	0	%100
36	MP2A	Z	4.59	4.59	0	%100
37	MP3A	X	6.567	6.567	0	%100
38	MP3A	Z	3.792	3.792	0	%100
39	MP4A	X	6.567	6.567	0	%100
40	MP4A	Z	3.792	3.792	0	%100
41	M33	X	2.765	2.765	0	%100
42	M33	Z	1.597	1.597	0	%100
43	M38	X	1.988	1.988	0	%100
44	M38	Z	1.147	1.147	0	%100
45	M39	X	10.266	10.266	0	%100
46	M39	Z	5.927	5.927	0	%100
47	M40	X	1.91	1.91	0	%100
48	M40	Z	1.103	1.103	0	%100
49	M41	X	6.563	6.563	0	%100
50	M41	Z	3.789	3.789	0	%100
51	M47	X	10.389	10.389	0	%100
52	M47	Z	5.998	5.998	0	%100
53	M48	X	3.253	3.253	0	%100
54	M48	Z	1.878	1.878	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	1.168	1.168	0	%100
2	OVP	Z	2.023	2.023	0	%100
3	M4	X	1.168	1.168	0	%100
4	M4	Z	2.023	2.023	0	%100
5	M5	X	1.597	1.597	0	%100
6	M5	Z	2.765	2.765	0	%100
7	M6	X	1.597	1.597	0	%100
8	M6	Z	2.765	2.765	0	%100
9	M7	X	2.844	2.844	0	%100
10	M7	Z	4.926	4.926	0	%100
11	M8	X	2.725	2.725	0	%100
12	M8	Z	4.719	4.719	0	%100
13	M9	X	2.844	2.844	0	%100
14	M9	Z	4.926	4.926	0	%100
15	M10	X	2.725	2.725	0	%100
16	M10	Z	4.719	4.719	0	%100
17	M11	X	1.597	1.597	0	%100
18	M11	Z	2.765	2.765	0	%100
19	M12	X	1.597	1.597	0	%100
20	M12	Z	2.765	2.765	0	%100
21	M13	X	1.597	1.597	0	%100
22	M13	Z	2.765	2.765	0	%100
23	M14	X	1.597	1.597	0	%100
24	M14	Z	2.765	2.765	0	%100
25	M15	X	.824	.824	0	%100
26	M15	Z	1.427	1.427	0	%100
27	M16	X	.824	.824	0	%100
28	M16	Z	1.427	1.427	0	%100
29	M17	X	5.157	5.157	0	%100
30	M17	Z	8.932	8.932	0	%100
31	M20	X	1.825	1.825	0	%100
32	M20	Z	3.161	3.161	0	%100
33	MP1A	X	3.792	3.792	0	%100
34	MP1A	Z	6.567	6.567	0	%100
35	MP2A	X	4.59	4.59	0	%100
36	MP2A	Z	7.95	7.95	0	%100
37	MP3A	X	3.792	3.792	0	%100
38	MP3A	Z	6.567	6.567	0	%100
39	MP4A	X	3.792	3.792	0	%100
40	MP4A	Z	6.567	6.567	0	%100
41	M33	X	1.597	1.597	0	%100
42	M33	Z	2.765	2.765	0	%100
43	M38	X	3.442	3.442	0	%100
44	M38	Z	5.963	5.963	0	%100
45	M39	X	6.429	6.429	0	%100
46	M39	Z	11.136	11.136	0	%100
47	M40	X	.216	.216	0	%100
48	M40	Z	.374	.374	0	%100
49	M41	X	2.928	2.928	0	%100
50	M41	Z	5.071	5.071	0	%100
51	M47	X	6.451	6.451	0	%100
52	M47	Z	11.174	11.174	0	%100
53	M48	X	1.115	1.115	0	%100
54	M48	Z	1.931	1.931	0	%100

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

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.%]
1	OVP	X	0	0	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	3.193	3.193	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	3.193	3.193	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	7.583	7.583	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	7.266	7.266	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	7.583	7.583	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	7.266	7.266	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	3.193	3.193	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	3.193	3.193	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	3.193	3.193	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	3.193	3.193	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	1.399	1.399	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	1.399	1.399	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	10.314	10.314	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	.439	.439	0	%100
33	MP1A	X	0	0	0	%100
34	MP1A	Z	7.583	7.583	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	9.18	9.18	0	%100
37	MP3A	X	0	0	0	%100
38	MP3A	Z	7.583	7.583	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	7.583	7.583	0	%100
41	M33	X	0	0	0	%100
42	M33	Z	3.193	3.193	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	9.18	9.18	0	%100
45	M39	X	0	0	0	%100
46	M39	Z	7.734	7.734	0	%100
47	M40	X	0	0	0	%100
48	M40	Z	4.993	4.993	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	2.069	2.069	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	8.28	8.28	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	6.154	6.154	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-1.168	-1.168	0	%100
2	OVP	Z	2.023	2.023	0	%100
3	M4	X	-1.168	-1.168	0	%100
4	M4	Z	2.023	2.023	0	%100
5	M5	X	-1.597	-1.597	0	%100
6	M5	Z	2.765	2.765	0	%100
7	M6	X	-1.597	-1.597	0	%100
8	M6	Z	2.765	2.765	0	%100
9	M7	X	-2.844	-2.844	0	%100
10	M7	Z	4.926	4.926	0	%100
11	M8	X	-2.725	-2.725	0	%100
12	M8	Z	4.719	4.719	0	%100
13	M9	X	-2.844	-2.844	0	%100
14	M9	Z	4.926	4.926	0	%100
15	M10	X	-2.725	-2.725	0	%100
16	M10	Z	4.719	4.719	0	%100
17	M11	X	-1.597	-1.597	0	%100
18	M11	Z	2.765	2.765	0	%100
19	M12	X	-1.597	-1.597	0	%100
20	M12	Z	2.765	2.765	0	%100
21	M13	X	-1.597	-1.597	0	%100
22	M13	Z	2.765	2.765	0	%100
23	M14	X	-1.597	-1.597	0	%100
24	M14	Z	2.765	2.765	0	%100
25	M15	X	-.824	-.824	0	%100
26	M15	Z	1.427	1.427	0	%100
27	M16	X	-.824	-.824	0	%100
28	M16	Z	1.427	1.427	0	%100
29	M17	X	-5.157	-5.157	0	%100
30	M17	Z	8.932	8.932	0	%100
31	M20	X	-.291	-.291	0	%100
32	M20	Z	.503	.503	0	%100
33	MP1A	X	-3.792	-3.792	0	%100
34	MP1A	Z	6.567	6.567	0	%100
35	MP2A	X	-4.59	-4.59	0	%100
36	MP2A	Z	7.95	7.95	0	%100
37	MP3A	X	-3.792	-3.792	0	%100
38	MP3A	Z	6.567	6.567	0	%100
39	MP4A	X	-3.792	-3.792	0	%100
40	MP4A	Z	6.567	6.567	0	%100
41	M33	X	-1.597	-1.597	0	%100
42	M33	Z	2.765	2.765	0	%100
43	M38	X	-3.442	-3.442	0	%100
44	M38	Z	5.963	5.963	0	%100
45	M39	X	-.802	-.802	0	%100
46	M39	Z	1.389	1.389	0	%100
47	M40	X	-5.664	-5.664	0	%100
48	M40	Z	9.811	9.811	0	%100
49	M41	X	-.003	-.003	0	%100
50	M41	Z	.004	.004	0	%100
51	M47	X	-1.376	-1.376	0	%100
52	M47	Z	2.384	2.384	0	%100
53	M48	X	-5.802	-5.802	0	%100
54	M48	Z	10.05	10.05	0	%100

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

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.%]
1	OVP	X	-6.068	-6.068	0	%100
2	OVP	Z	3.503	3.503	0	%100
3	M4	X	-6.068	-6.068	0	%100
4	M4	Z	3.503	3.503	0	%100
5	M5	X	-2.765	-2.765	0	%100
6	M5	Z	1.597	1.597	0	%100
7	M6	X	-2.765	-2.765	0	%100
8	M6	Z	1.597	1.597	0	%100
9	M7	X	-1.642	-1.642	0	%100
10	M7	Z	.948	.948	0	%100
11	M8	X	-1.573	-1.573	0	%100
12	M8	Z	.908	.908	0	%100
13	M9	X	-1.642	-1.642	0	%100
14	M9	Z	.948	.948	0	%100
15	M10	X	-1.573	-1.573	0	%100
16	M10	Z	.908	.908	0	%100
17	M11	X	-2.765	-2.765	0	%100
18	M11	Z	1.597	1.597	0	%100
19	M12	X	-2.765	-2.765	0	%100
20	M12	Z	1.597	1.597	0	%100
21	M13	X	-2.765	-2.765	0	%100
22	M13	Z	1.597	1.597	0	%100
23	M14	X	-2.765	-2.765	0	%100
24	M14	Z	1.597	1.597	0	%100
25	M15	X	-1.858	-1.858	0	%100
26	M15	Z	1.073	1.073	0	%100
27	M16	X	-1.858	-1.858	0	%100
28	M16	Z	1.073	1.073	0	%100
29	M17	X	-8.932	-8.932	0	%100
30	M17	Z	5.157	5.157	0	%100
31	M20	X	-3.407	-3.407	0	%100
32	M20	Z	1.967	1.967	0	%100
33	MP1A	X	-6.567	-6.567	0	%100
34	MP1A	Z	3.792	3.792	0	%100
35	MP2A	X	-7.95	-7.95	0	%100
36	MP2A	Z	4.59	4.59	0	%100
37	MP3A	X	-6.567	-6.567	0	%100
38	MP3A	Z	3.792	3.792	0	%100
39	MP4A	X	-6.567	-6.567	0	%100
40	MP4A	Z	3.792	3.792	0	%100
41	M33	X	-2.765	-2.765	0	%100
42	M33	Z	1.597	1.597	0	%100
43	M38	X	-1.988	-1.988	0	%100
44	M38	Z	1.147	1.147	0	%100
45	M39	X	-.519	-.519	0	%100
46	M39	Z	.3	.3	0	%100
47	M40	X	-11.348	-11.348	0	%100
48	M40	Z	6.552	6.552	0	%100
49	M41	X	-1.497	-1.497	0	%100
50	M41	Z	.864	.864	0	%100
51	M47	X	-1.599	-1.599	0	%100
52	M47	Z	.923	.923	0	%100
53	M48	X	-11.372	-11.372	0	%100
54	M48	Z	6.566	6.566	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.%]
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Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-9.342	-9.342	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	-9.342	-9.342	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	-3.193	-3.193	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-3.193	-3.193	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-3.193	-3.193	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-3.193	-3.193	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-3.193	-3.193	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-3.193	-3.193	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	-2.395	-2.395	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	-2.395	-2.395	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	-10.314	-10.314	0	%100
30	M17	Z	0	0	0	%100
31	M20	X	-7.144	-7.144	0	%100
32	M20	Z	0	0	0	%100
33	MP1A	X	-7.583	-7.583	0	%100
34	MP1A	Z	0	0	0	%100
35	MP2A	X	-9.18	-9.18	0	%100
36	MP2A	Z	0	0	0	%100
37	MP3A	X	-7.583	-7.583	0	%100
38	MP3A	Z	0	0	0	%100
39	MP4A	X	-7.583	-7.583	0	%100
40	MP4A	Z	0	0	0	%100
41	M33	X	-3.193	-3.193	0	%100
42	M33	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39	X	-5.725	-5.725	0	%100
46	M39	Z	0	0	0	%100
47	M40	X	-8.542	-8.542	0	%100
48	M40	Z	0	0	0	%100
49	M41	X	-5.515	-5.515	0	%100
50	M41	Z	0	0	0	%100
51	M47	X	-6.469	-6.469	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-9.207	-9.207	0	%100
54	M48	Z	0	0	0	%100

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

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.%]
1	OVP	X	-6.068	-6.068	0	%100
2	OVP	Z	-3.503	-3.503	0	%100
3	M4	X	-6.068	-6.068	0	%100
4	M4	Z	-3.503	-3.503	0	%100
5	M5	X	-2.765	-2.765	0	%100
6	M5	Z	-1.597	-1.597	0	%100
7	M6	X	-2.765	-2.765	0	%100
8	M6	Z	-1.597	-1.597	0	%100
9	M7	X	-1.642	-1.642	0	%100
10	M7	Z	-.948	-.948	0	%100
11	M8	X	-1.573	-1.573	0	%100
12	M8	Z	-.908	-.908	0	%100
13	M9	X	-1.642	-1.642	0	%100
14	M9	Z	-.948	-.948	0	%100
15	M10	X	-1.573	-1.573	0	%100
16	M10	Z	-.908	-.908	0	%100
17	M11	X	-2.765	-2.765	0	%100
18	M11	Z	-1.597	-1.597	0	%100
19	M12	X	-2.765	-2.765	0	%100
20	M12	Z	-1.597	-1.597	0	%100
21	M13	X	-2.765	-2.765	0	%100
22	M13	Z	-1.597	-1.597	0	%100
23	M14	X	-2.765	-2.765	0	%100
24	M14	Z	-1.597	-1.597	0	%100
25	M15	X	-1.858	-1.858	0	%100
26	M15	Z	-1.073	-1.073	0	%100
27	M16	X	-1.858	-1.858	0	%100
28	M16	Z	-1.073	-1.073	0	%100
29	M17	X	-8.932	-8.932	0	%100
30	M17	Z	-5.157	-5.157	0	%100
31	M20	X	-6.064	-6.064	0	%100
32	M20	Z	-3.501	-3.501	0	%100
33	MP1A	X	-6.567	-6.567	0	%100
34	MP1A	Z	-3.792	-3.792	0	%100
35	MP2A	X	-7.95	-7.95	0	%100
36	MP2A	Z	-4.59	-4.59	0	%100
37	MP3A	X	-6.567	-6.567	0	%100
38	MP3A	Z	-3.792	-3.792	0	%100
39	MP4A	X	-6.567	-6.567	0	%100
40	MP4A	Z	-3.792	-3.792	0	%100
41	M33	X	-2.765	-2.765	0	%100
42	M33	Z	-1.597	-1.597	0	%100
43	M38	X	-1.988	-1.988	0	%100
44	M38	Z	-1.147	-1.147	0	%100
45	M39	X	-10.266	-10.266	0	%100
46	M39	Z	-5.927	-5.927	0	%100
47	M40	X	-1.91	-1.91	0	%100
48	M40	Z	-1.103	-1.103	0	%100
49	M41	X	-6.563	-6.563	0	%100
50	M41	Z	-3.789	-3.789	0	%100
51	M47	X	-10.389	-10.389	0	%100
52	M47	Z	-5.998	-5.998	0	%100
53	M48	X	-3.253	-3.253	0	%100
54	M48	Z	-1.878	-1.878	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-1.168	-1.168	0	%100
2	OVP	Z	-2.023	-2.023	0	%100
3	M4	X	-1.168	-1.168	0	%100
4	M4	Z	-2.023	-2.023	0	%100
5	M5	X	-1.597	-1.597	0	%100
6	M5	Z	-2.765	-2.765	0	%100
7	M6	X	-1.597	-1.597	0	%100
8	M6	Z	-2.765	-2.765	0	%100
9	M7	X	-2.844	-2.844	0	%100
10	M7	Z	-4.926	-4.926	0	%100
11	M8	X	-2.725	-2.725	0	%100
12	M8	Z	-4.719	-4.719	0	%100
13	M9	X	-2.844	-2.844	0	%100
14	M9	Z	-4.926	-4.926	0	%100
15	M10	X	-2.725	-2.725	0	%100
16	M10	Z	-4.719	-4.719	0	%100
17	M11	X	-1.597	-1.597	0	%100
18	M11	Z	-2.765	-2.765	0	%100
19	M12	X	-1.597	-1.597	0	%100
20	M12	Z	-2.765	-2.765	0	%100
21	M13	X	-1.597	-1.597	0	%100
22	M13	Z	-2.765	-2.765	0	%100
23	M14	X	-1.597	-1.597	0	%100
24	M14	Z	-2.765	-2.765	0	%100
25	M15	X	-.824	-.824	0	%100
26	M15	Z	-1.427	-1.427	0	%100
27	M16	X	-.824	-.824	0	%100
28	M16	Z	-1.427	-1.427	0	%100
29	M17	X	-5.157	-5.157	0	%100
30	M17	Z	-8.932	-8.932	0	%100
31	M20	X	-1.825	-1.825	0	%100
32	M20	Z	-3.161	-3.161	0	%100
33	MP1A	X	-3.792	-3.792	0	%100
34	MP1A	Z	-6.567	-6.567	0	%100
35	MP2A	X	-4.59	-4.59	0	%100
36	MP2A	Z	-7.95	-7.95	0	%100
37	MP3A	X	-3.792	-3.792	0	%100
38	MP3A	Z	-6.567	-6.567	0	%100
39	MP4A	X	-3.792	-3.792	0	%100
40	MP4A	Z	-6.567	-6.567	0	%100
41	M33	X	-1.597	-1.597	0	%100
42	M33	Z	-2.765	-2.765	0	%100
43	M38	X	-3.442	-3.442	0	%100
44	M38	Z	-5.963	-5.963	0	%100
45	M39	X	-6.429	-6.429	0	%100
46	M39	Z	-11.136	-11.136	0	%100
47	M40	X	-.216	-.216	0	%100
48	M40	Z	-.374	-.374	0	%100
49	M41	X	-2.928	-2.928	0	%100
50	M41	Z	-5.071	-5.071	0	%100
51	M47	X	-6.451	-6.451	0	%100
52	M47	Z	-11.174	-11.174	0	%100
53	M48	X	-1.115	-1.115	0	%100
54	M48	Z	-1.931	-1.931	0	%100

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

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.%]
1	OVP	X	0	0	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	-1.722	-1.722	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-1.722	-1.722	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-2.851	-2.851	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	-2.738	-2.738	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-2.851	-2.851	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-2.738	-2.738	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-1.722	-1.722	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-1.722	-1.722	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-1.722	-1.722	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-1.722	-1.722	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	-.982	-.982	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	-.982	-.982	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-3.58	-3.58	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	-.165	-.165	0	%100
33	MP1A	X	0	0	0	%100
34	MP1A	Z	-2.851	-2.851	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-3.152	-3.152	0	%100
37	MP3A	X	0	0	0	%100
38	MP3A	Z	-2.851	-2.851	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	-2.851	-2.851	0	%100
41	M33	X	0	0	0	%100
42	M33	Z	-1.722	-1.722	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	-3.152	-3.152	0	%100
45	M39	X	0	0	0	%100
46	M39	Z	-2.286	-2.286	0	%100
47	M40	X	0	0	0	%100
48	M40	Z	-1.476	-1.476	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	-.778	-.778	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-2.447	-2.447	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-1.819	-1.819	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	.383	.383	0	%100
2	OVP	Z	-.663	-.663	0	%100
3	M4	X	.383	.383	0	%100
4	M4	Z	-.663	-.663	0	%100
5	M5	X	.861	.861	0	%100
6	M5	Z	-1.492	-1.492	0	%100
7	M6	X	.861	.861	0	%100
8	M6	Z	-1.492	-1.492	0	%100
9	M7	X	1.069	1.069	0	%100
10	M7	Z	-1.852	-1.852	0	%100
11	M8	X	1.027	1.027	0	%100
12	M8	Z	-1.778	-1.778	0	%100
13	M9	X	1.069	1.069	0	%100
14	M9	Z	-1.852	-1.852	0	%100
15	M10	X	1.027	1.027	0	%100
16	M10	Z	-1.778	-1.778	0	%100
17	M11	X	.861	.861	0	%100
18	M11	Z	-1.492	-1.492	0	%100
19	M12	X	.861	.861	0	%100
20	M12	Z	-1.492	-1.492	0	%100
21	M13	X	.861	.861	0	%100
22	M13	Z	-1.492	-1.492	0	%100
23	M14	X	.861	.861	0	%100
24	M14	Z	-1.492	-1.492	0	%100
25	M15	X	.579	.579	0	%100
26	M15	Z	-1.002	-1.002	0	%100
27	M16	X	.579	.579	0	%100
28	M16	Z	-1.002	-1.002	0	%100
29	M17	X	1.79	1.79	0	%100
30	M17	Z	-3.1	-3.1	0	%100
31	M20	X	.109	.109	0	%100
32	M20	Z	-.189	-.189	0	%100
33	MP1A	X	1.425	1.425	0	%100
34	MP1A	Z	-2.469	-2.469	0	%100
35	MP2A	X	1.576	1.576	0	%100
36	MP2A	Z	-2.73	-2.73	0	%100
37	MP3A	X	1.425	1.425	0	%100
38	MP3A	Z	-2.469	-2.469	0	%100
39	MP4A	X	1.425	1.425	0	%100
40	MP4A	Z	-2.469	-2.469	0	%100
41	M33	X	.861	.861	0	%100
42	M33	Z	-1.492	-1.492	0	%100
43	M38	X	1.182	1.182	0	%100
44	M38	Z	-2.048	-2.048	0	%100
45	M39	X	.237	.237	0	%100
46	M39	Z	-.411	-.411	0	%100
47	M40	X	1.674	1.674	0	%100
48	M40	Z	-2.9	-2.9	0	%100
49	M41	X	.000958	.000958	0	%100
50	M41	Z	-.002	-.002	0	%100
51	M47	X	.407	.407	0	%100
52	M47	Z	-.705	-.705	0	%100
53	M48	X	1.715	1.715	0	%100
54	M48	Z	-2.97	-2.97	0	%100

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

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	OVP	X	1.99	1.99	0	%100
2	OVP	Z	-1.149	-1.149	0	%100
3	M4	X	1.99	1.99	0	%100
4	M4	Z	-1.149	-1.149	0	%100
5	M5	X	1.492	1.492	0	%100
6	M5	Z	-.861	-.861	0	%100
7	M6	X	1.492	1.492	0	%100
8	M6	Z	-.861	-.861	0	%100
9	M7	X	.617	.617	0	%100
10	M7	Z	-.356	-.356	0	%100
11	M8	X	.593	.593	0	%100
12	M8	Z	-.342	-.342	0	%100
13	M9	X	.617	.617	0	%100
14	M9	Z	-.356	-.356	0	%100
15	M10	X	.593	.593	0	%100
16	M10	Z	-.342	-.342	0	%100
17	M11	X	1.492	1.492	0	%100
18	M11	Z	-.861	-.861	0	%100
19	M12	X	1.492	1.492	0	%100
20	M12	Z	-.861	-.861	0	%100
21	M13	X	1.492	1.492	0	%100
22	M13	Z	-.861	-.861	0	%100
23	M14	X	1.492	1.492	0	%100
24	M14	Z	-.861	-.861	0	%100
25	M15	X	1.305	1.305	0	%100
26	M15	Z	-.753	-.753	0	%100
27	M16	X	1.305	1.305	0	%100
28	M16	Z	-.753	-.753	0	%100
29	M17	X	3.1	3.1	0	%100
30	M17	Z	-1.79	-1.79	0	%100
31	M20	X	1.281	1.281	0	%100
32	M20	Z	-.739	-.739	0	%100
33	MP1A	X	2.469	2.469	0	%100
34	MP1A	Z	-1.425	-1.425	0	%100
35	MP2A	X	2.73	2.73	0	%100
36	MP2A	Z	-1.576	-1.576	0	%100
37	MP3A	X	2.469	2.469	0	%100
38	MP3A	Z	-1.425	-1.425	0	%100
39	MP4A	X	2.469	2.469	0	%100
40	MP4A	Z	-1.425	-1.425	0	%100
41	M33	X	1.492	1.492	0	%100
42	M33	Z	-.861	-.861	0	%100
43	M38	X	.683	.683	0	%100
44	M38	Z	-.394	-.394	0	%100
45	M39	X	.154	.154	0	%100
46	M39	Z	-.089	-.089	0	%100
47	M40	X	3.354	3.354	0	%100
48	M40	Z	-1.936	-1.936	0	%100
49	M41	X	.563	.563	0	%100
50	M41	Z	-.325	-.325	0	%100
51	M47	X	.473	.473	0	%100
52	M47	Z	-.273	-.273	0	%100
53	M48	X	3.361	3.361	0	%100
54	M48	Z	-1.94	-1.94	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F....]	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	3.064	3.064	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	3.064	3.064	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	1.722	1.722	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	1.722	1.722	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	1.722	1.722	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	1.722	1.722	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	1.722	1.722	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	1.722	1.722	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	1.682	1.682	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	1.682	1.682	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	3.58	3.58	0	%100
30	M17	Z	0	0	0	%100
31	M20	X	2.686	2.686	0	%100
32	M20	Z	0	0	0	%100
33	MP1A	X	2.851	2.851	0	%100
34	MP1A	Z	0	0	0	%100
35	MP2A	X	3.152	3.152	0	%100
36	MP2A	Z	0	0	0	%100
37	MP3A	X	2.851	2.851	0	%100
38	MP3A	Z	0	0	0	%100
39	MP4A	X	2.851	2.851	0	%100
40	MP4A	Z	0	0	0	%100
41	M33	X	1.722	1.722	0	%100
42	M33	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39	X	1.692	1.692	0	%100
46	M39	Z	0	0	0	%100
47	M40	X	2.525	2.525	0	%100
48	M40	Z	0	0	0	%100
49	M41	X	2.073	2.073	0	%100
50	M41	Z	0	0	0	%100
51	M47	X	1.912	1.912	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	2.721	2.721	0	%100
54	M48	Z	0	0	0	%100

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

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	OVP	X	1.99	1.99	0	%100
2	OVP	Z	1.149	1.149	0	%100
3	M4	X	1.99	1.99	0	%100
4	M4	Z	1.149	1.149	0	%100
5	M5	X	1.492	1.492	0	%100
6	M5	Z	.861	.861	0	%100
7	M6	X	1.492	1.492	0	%100
8	M6	Z	.861	.861	0	%100
9	M7	X	.617	.617	0	%100
10	M7	Z	.356	.356	0	%100
11	M8	X	.593	.593	0	%100
12	M8	Z	.342	.342	0	%100
13	M9	X	.617	.617	0	%100
14	M9	Z	.356	.356	0	%100
15	M10	X	.593	.593	0	%100
16	M10	Z	.342	.342	0	%100
17	M11	X	1.492	1.492	0	%100
18	M11	Z	.861	.861	0	%100
19	M12	X	1.492	1.492	0	%100
20	M12	Z	.861	.861	0	%100
21	M13	X	1.492	1.492	0	%100
22	M13	Z	.861	.861	0	%100
23	M14	X	1.492	1.492	0	%100
24	M14	Z	.861	.861	0	%100
25	M15	X	1.305	1.305	0	%100
26	M15	Z	.753	.753	0	%100
27	M16	X	1.305	1.305	0	%100
28	M16	Z	.753	.753	0	%100
29	M17	X	3.1	3.1	0	%100
30	M17	Z	1.79	1.79	0	%100
31	M20	X	2.279	2.279	0	%100
32	M20	Z	1.316	1.316	0	%100
33	MP1A	X	2.469	2.469	0	%100
34	MP1A	Z	1.425	1.425	0	%100
35	MP2A	X	2.73	2.73	0	%100
36	MP2A	Z	1.576	1.576	0	%100
37	MP3A	X	2.469	2.469	0	%100
38	MP3A	Z	1.425	1.425	0	%100
39	MP4A	X	2.469	2.469	0	%100
40	MP4A	Z	1.425	1.425	0	%100
41	M33	X	1.492	1.492	0	%100
42	M33	Z	.861	.861	0	%100
43	M38	X	.683	.683	0	%100
44	M38	Z	.394	.394	0	%100
45	M39	X	3.034	3.034	0	%100
46	M39	Z	1.752	1.752	0	%100
47	M40	X	.565	.565	0	%100
48	M40	Z	.326	.326	0	%100
49	M41	X	2.467	2.467	0	%100
50	M41	Z	1.424	1.424	0	%100
51	M47	X	3.071	3.071	0	%100
52	M47	Z	1.773	1.773	0	%100
53	M48	X	.962	.962	0	%100
54	M48	Z	.555	.555	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	.383	.383	0	%100
2	OVP	Z	.663	.663	0	%100
3	M4	X	.383	.383	0	%100
4	M4	Z	.663	.663	0	%100
5	M5	X	.861	.861	0	%100
6	M5	Z	1.492	1.492	0	%100
7	M6	X	.861	.861	0	%100
8	M6	Z	1.492	1.492	0	%100
9	M7	X	1.069	1.069	0	%100
10	M7	Z	1.852	1.852	0	%100
11	M8	X	1.027	1.027	0	%100
12	M8	Z	1.778	1.778	0	%100
13	M9	X	1.069	1.069	0	%100
14	M9	Z	1.852	1.852	0	%100
15	M10	X	1.027	1.027	0	%100
16	M10	Z	1.778	1.778	0	%100
17	M11	X	.861	.861	0	%100
18	M11	Z	1.492	1.492	0	%100
19	M12	X	.861	.861	0	%100
20	M12	Z	1.492	1.492	0	%100
21	M13	X	.861	.861	0	%100
22	M13	Z	1.492	1.492	0	%100
23	M14	X	.861	.861	0	%100
24	M14	Z	1.492	1.492	0	%100
25	M15	X	.579	.579	0	%100
26	M15	Z	1.002	1.002	0	%100
27	M16	X	.579	.579	0	%100
28	M16	Z	1.002	1.002	0	%100
29	M17	X	1.79	1.79	0	%100
30	M17	Z	3.1	3.1	0	%100
31	M20	X	.686	.686	0	%100
32	M20	Z	1.188	1.188	0	%100
33	MP1A	X	1.425	1.425	0	%100
34	MP1A	Z	2.469	2.469	0	%100
35	MP2A	X	1.576	1.576	0	%100
36	MP2A	Z	2.73	2.73	0	%100
37	MP3A	X	1.425	1.425	0	%100
38	MP3A	Z	2.469	2.469	0	%100
39	MP4A	X	1.425	1.425	0	%100
40	MP4A	Z	2.469	2.469	0	%100
41	M33	X	.861	.861	0	%100
42	M33	Z	1.492	1.492	0	%100
43	M38	X	1.182	1.182	0	%100
44	M38	Z	2.048	2.048	0	%100
45	M39	X	1.9	1.9	0	%100
46	M39	Z	3.291	3.291	0	%100
47	M40	X	.064	.064	0	%100
48	M40	Z	.11	.11	0	%100
49	M41	X	1.101	1.101	0	%100
50	M41	Z	1.906	1.906	0	%100
51	M47	X	1.907	1.907	0	%100
52	M47	Z	3.302	3.302	0	%100
53	M48	X	.33	.33	0	%100
54	M48	Z	.571	.571	0	%100

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

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	OVP	X	0	0	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	1.722	1.722	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	1.722	1.722	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	2.851	2.851	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	2.738	2.738	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	2.851	2.851	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	2.738	2.738	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	1.722	1.722	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	1.722	1.722	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	1.722	1.722	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	1.722	1.722	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	.982	.982	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	.982	.982	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	3.58	3.58	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	.165	.165	0	%100
33	MP1A	X	0	0	0	%100
34	MP1A	Z	2.851	2.851	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	3.152	3.152	0	%100
37	MP3A	X	0	0	0	%100
38	MP3A	Z	2.851	2.851	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	2.851	2.851	0	%100
41	M33	X	0	0	0	%100
42	M33	Z	1.722	1.722	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	3.152	3.152	0	%100
45	M39	X	0	0	0	%100
46	M39	Z	2.286	2.286	0	%100
47	M40	X	0	0	0	%100
48	M40	Z	1.476	1.476	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	.778	.778	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	2.447	2.447	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	1.819	1.819	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-.383	-.383	0	%100
2	OVP	Z	.663	.663	0	%100
3	M4	X	-.383	-.383	0	%100
4	M4	Z	.663	.663	0	%100
5	M5	X	-.861	-.861	0	%100
6	M5	Z	1.492	1.492	0	%100
7	M6	X	-.861	-.861	0	%100
8	M6	Z	1.492	1.492	0	%100
9	M7	X	-1.069	-1.069	0	%100
10	M7	Z	1.852	1.852	0	%100
11	M8	X	-1.027	-1.027	0	%100
12	M8	Z	1.778	1.778	0	%100
13	M9	X	-1.069	-1.069	0	%100
14	M9	Z	1.852	1.852	0	%100
15	M10	X	-1.027	-1.027	0	%100
16	M10	Z	1.778	1.778	0	%100
17	M11	X	-.861	-.861	0	%100
18	M11	Z	1.492	1.492	0	%100
19	M12	X	-.861	-.861	0	%100
20	M12	Z	1.492	1.492	0	%100
21	M13	X	-.861	-.861	0	%100
22	M13	Z	1.492	1.492	0	%100
23	M14	X	-.861	-.861	0	%100
24	M14	Z	1.492	1.492	0	%100
25	M15	X	-.579	-.579	0	%100
26	M15	Z	1.002	1.002	0	%100
27	M16	X	-.579	-.579	0	%100
28	M16	Z	1.002	1.002	0	%100
29	M17	X	-1.79	-1.79	0	%100
30	M17	Z	3.1	3.1	0	%100
31	M20	X	-.109	-.109	0	%100
32	M20	Z	.189	.189	0	%100
33	MP1A	X	-1.425	-1.425	0	%100
34	MP1A	Z	2.469	2.469	0	%100
35	MP2A	X	-1.576	-1.576	0	%100
36	MP2A	Z	2.73	2.73	0	%100
37	MP3A	X	-1.425	-1.425	0	%100
38	MP3A	Z	2.469	2.469	0	%100
39	MP4A	X	-1.425	-1.425	0	%100
40	MP4A	Z	2.469	2.469	0	%100
41	M33	X	-.861	-.861	0	%100
42	M33	Z	1.492	1.492	0	%100
43	M38	X	-1.182	-1.182	0	%100
44	M38	Z	2.048	2.048	0	%100
45	M39	X	-.237	-.237	0	%100
46	M39	Z	.411	.411	0	%100
47	M40	X	-1.674	-1.674	0	%100
48	M40	Z	2.9	2.9	0	%100
49	M41	X	-.000958	-.000958	0	%100
50	M41	Z	.002	.002	0	%100
51	M47	X	-.407	-.407	0	%100
52	M47	Z	.705	.705	0	%100
53	M48	X	-1.715	-1.715	0	%100
54	M48	Z	2.97	2.97	0	%100

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

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	OVP	X	-1.99	-1.99	0	%100
2	OVP	Z	1.149	1.149	0	%100
3	M4	X	-1.99	-1.99	0	%100
4	M4	Z	1.149	1.149	0	%100
5	M5	X	-1.492	-1.492	0	%100
6	M5	Z	.861	.861	0	%100
7	M6	X	-1.492	-1.492	0	%100
8	M6	Z	.861	.861	0	%100
9	M7	X	-.617	-.617	0	%100
10	M7	Z	.356	.356	0	%100
11	M8	X	-.593	-.593	0	%100
12	M8	Z	.342	.342	0	%100
13	M9	X	-.617	-.617	0	%100
14	M9	Z	.356	.356	0	%100
15	M10	X	-.593	-.593	0	%100
16	M10	Z	.342	.342	0	%100
17	M11	X	-1.492	-1.492	0	%100
18	M11	Z	.861	.861	0	%100
19	M12	X	-1.492	-1.492	0	%100
20	M12	Z	.861	.861	0	%100
21	M13	X	-1.492	-1.492	0	%100
22	M13	Z	.861	.861	0	%100
23	M14	X	-1.492	-1.492	0	%100
24	M14	Z	.861	.861	0	%100
25	M15	X	-1.305	-1.305	0	%100
26	M15	Z	.753	.753	0	%100
27	M16	X	-1.305	-1.305	0	%100
28	M16	Z	.753	.753	0	%100
29	M17	X	-3.1	-3.1	0	%100
30	M17	Z	1.79	1.79	0	%100
31	M20	X	-1.281	-1.281	0	%100
32	M20	Z	.739	.739	0	%100
33	MP1A	X	-2.469	-2.469	0	%100
34	MP1A	Z	1.425	1.425	0	%100
35	MP2A	X	-2.73	-2.73	0	%100
36	MP2A	Z	1.576	1.576	0	%100
37	MP3A	X	-2.469	-2.469	0	%100
38	MP3A	Z	1.425	1.425	0	%100
39	MP4A	X	-2.469	-2.469	0	%100
40	MP4A	Z	1.425	1.425	0	%100
41	M33	X	-1.492	-1.492	0	%100
42	M33	Z	.861	.861	0	%100
43	M38	X	-.683	-.683	0	%100
44	M38	Z	.394	.394	0	%100
45	M39	X	-.154	-.154	0	%100
46	M39	Z	.089	.089	0	%100
47	M40	X	-3.354	-3.354	0	%100
48	M40	Z	1.936	1.936	0	%100
49	M41	X	-.563	-.563	0	%100
50	M41	Z	.325	.325	0	%100
51	M47	X	-.473	-.473	0	%100
52	M47	Z	.273	.273	0	%100
53	M48	X	-3.361	-3.361	0	%100
54	M48	Z	1.94	1.94	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-3.064	-3.064	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	-3.064	-3.064	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	-1.722	-1.722	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-1.722	-1.722	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-1.722	-1.722	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-1.722	-1.722	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-1.722	-1.722	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-1.722	-1.722	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	-1.682	-1.682	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	-1.682	-1.682	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	-3.58	-3.58	0	%100
30	M17	Z	0	0	0	%100
31	M20	X	-2.686	-2.686	0	%100
32	M20	Z	0	0	0	%100
33	MP1A	X	-2.851	-2.851	0	%100
34	MP1A	Z	0	0	0	%100
35	MP2A	X	-3.152	-3.152	0	%100
36	MP2A	Z	0	0	0	%100
37	MP3A	X	-2.851	-2.851	0	%100
38	MP3A	Z	0	0	0	%100
39	MP4A	X	-2.851	-2.851	0	%100
40	MP4A	Z	0	0	0	%100
41	M33	X	-1.722	-1.722	0	%100
42	M33	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39	X	-1.692	-1.692	0	%100
46	M39	Z	0	0	0	%100
47	M40	X	-2.525	-2.525	0	%100
48	M40	Z	0	0	0	%100
49	M41	X	-2.073	-2.073	0	%100
50	M41	Z	0	0	0	%100
51	M47	X	-1.912	-1.912	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-2.721	-2.721	0	%100
54	M48	Z	0	0	0	%100

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

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	OVP	X	-1.99	-1.99	0	%100
2	OVP	Z	-1.149	-1.149	0	%100
3	M4	X	-1.99	-1.99	0	%100
4	M4	Z	-1.149	-1.149	0	%100
5	M5	X	-1.492	-1.492	0	%100
6	M5	Z	-.861	-.861	0	%100
7	M6	X	-1.492	-1.492	0	%100
8	M6	Z	-.861	-.861	0	%100
9	M7	X	-.617	-.617	0	%100
10	M7	Z	-.356	-.356	0	%100
11	M8	X	-.593	-.593	0	%100
12	M8	Z	-.342	-.342	0	%100
13	M9	X	-.617	-.617	0	%100
14	M9	Z	-.356	-.356	0	%100
15	M10	X	-.593	-.593	0	%100
16	M10	Z	-.342	-.342	0	%100
17	M11	X	-1.492	-1.492	0	%100
18	M11	Z	-.861	-.861	0	%100
19	M12	X	-1.492	-1.492	0	%100
20	M12	Z	-.861	-.861	0	%100
21	M13	X	-1.492	-1.492	0	%100
22	M13	Z	-.861	-.861	0	%100
23	M14	X	-1.492	-1.492	0	%100
24	M14	Z	-.861	-.861	0	%100
25	M15	X	-1.305	-1.305	0	%100
26	M15	Z	-.753	-.753	0	%100
27	M16	X	-1.305	-1.305	0	%100
28	M16	Z	-.753	-.753	0	%100
29	M17	X	-3.1	-3.1	0	%100
30	M17	Z	-1.79	-1.79	0	%100
31	M20	X	-2.279	-2.279	0	%100
32	M20	Z	-1.316	-1.316	0	%100
33	MP1A	X	-2.469	-2.469	0	%100
34	MP1A	Z	-1.425	-1.425	0	%100
35	MP2A	X	-2.73	-2.73	0	%100
36	MP2A	Z	-1.576	-1.576	0	%100
37	MP3A	X	-2.469	-2.469	0	%100
38	MP3A	Z	-1.425	-1.425	0	%100
39	MP4A	X	-2.469	-2.469	0	%100
40	MP4A	Z	-1.425	-1.425	0	%100
41	M33	X	-1.492	-1.492	0	%100
42	M33	Z	-.861	-.861	0	%100
43	M38	X	-.683	-.683	0	%100
44	M38	Z	-.394	-.394	0	%100
45	M39	X	-3.034	-3.034	0	%100
46	M39	Z	-1.752	-1.752	0	%100
47	M40	X	-.565	-.565	0	%100
48	M40	Z	-.326	-.326	0	%100
49	M41	X	-2.467	-2.467	0	%100
50	M41	Z	-1.424	-1.424	0	%100
51	M47	X	-3.071	-3.071	0	%100
52	M47	Z	-1.773	-1.773	0	%100
53	M48	X	-.962	-.962	0	%100
54	M48	Z	-.555	-.555	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-.383	-.383	0	%100
2	OVP	Z	-.663	-.663	0	%100
3	M4	X	-.383	-.383	0	%100
4	M4	Z	-.663	-.663	0	%100
5	M5	X	-.861	-.861	0	%100
6	M5	Z	-1.492	-1.492	0	%100
7	M6	X	-.861	-.861	0	%100
8	M6	Z	-1.492	-1.492	0	%100
9	M7	X	-1.069	-1.069	0	%100
10	M7	Z	-1.852	-1.852	0	%100
11	M8	X	-1.027	-1.027	0	%100
12	M8	Z	-1.778	-1.778	0	%100
13	M9	X	-1.069	-1.069	0	%100
14	M9	Z	-1.852	-1.852	0	%100
15	M10	X	-1.027	-1.027	0	%100
16	M10	Z	-1.778	-1.778	0	%100
17	M11	X	-.861	-.861	0	%100
18	M11	Z	-1.492	-1.492	0	%100
19	M12	X	-.861	-.861	0	%100
20	M12	Z	-1.492	-1.492	0	%100
21	M13	X	-.861	-.861	0	%100
22	M13	Z	-1.492	-1.492	0	%100
23	M14	X	-.861	-.861	0	%100
24	M14	Z	-1.492	-1.492	0	%100
25	M15	X	-.579	-.579	0	%100
26	M15	Z	-1.002	-1.002	0	%100
27	M16	X	-.579	-.579	0	%100
28	M16	Z	-1.002	-1.002	0	%100
29	M17	X	-1.79	-1.79	0	%100
30	M17	Z	-3.1	-3.1	0	%100
31	M20	X	-.686	-.686	0	%100
32	M20	Z	-1.188	-1.188	0	%100
33	MP1A	X	-1.425	-1.425	0	%100
34	MP1A	Z	-2.469	-2.469	0	%100
35	MP2A	X	-1.576	-1.576	0	%100
36	MP2A	Z	-2.73	-2.73	0	%100
37	MP3A	X	-1.425	-1.425	0	%100
38	MP3A	Z	-2.469	-2.469	0	%100
39	MP4A	X	-1.425	-1.425	0	%100
40	MP4A	Z	-2.469	-2.469	0	%100
41	M33	X	-.861	-.861	0	%100
42	M33	Z	-1.492	-1.492	0	%100
43	M38	X	-1.182	-1.182	0	%100
44	M38	Z	-2.048	-2.048	0	%100
45	M39	X	-1.9	-1.9	0	%100
46	M39	Z	-3.291	-3.291	0	%100
47	M40	X	-.064	-.064	0	%100
48	M40	Z	-.11	-.11	0	%100
49	M41	X	-1.101	-1.101	0	%100
50	M41	Z	-1.906	-1.906	0	%100
51	M47	X	-1.907	-1.907	0	%100
52	M47	Z	-3.302	-3.302	0	%100
53	M48	X	-.33	-.33	0	%100
54	M48	Z	-.571	-.571	0	%100

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

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	OVP	X	0	0	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	-.217	-.217	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-.217	-.217	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-.516	-.516	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	-.494	-.494	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	-.516	-.516	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	-.494	-.494	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-.217	-.217	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	-.217	-.217	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	-.217	-.217	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	-.217	-.217	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	-.095	-.095	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	-.095	-.095	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	-.702	-.702	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	-.03	-.03	0	%100
33	MP1A	X	0	0	0	%100
34	MP1A	Z	-.516	-.516	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	-.625	-.625	0	%100
37	MP3A	X	0	0	0	%100
38	MP3A	Z	-.516	-.516	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	-.516	-.516	0	%100
41	M33	X	0	0	0	%100
42	M33	Z	-.217	-.217	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	-.625	-.625	0	%100
45	M39	X	0	0	0	%100
46	M39	Z	-.526	-.526	0	%100
47	M40	X	0	0	0	%100
48	M40	Z	-.34	-.34	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	-.141	-.141	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-.564	-.564	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-.419	-.419	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	.079	.079	0	%100
2	OVP	Z	-.138	-.138	0	%100
3	M4	X	.079	.079	0	%100
4	M4	Z	-.138	-.138	0	%100
5	M5	X	.109	.109	0	%100
6	M5	Z	-.188	-.188	0	%100
7	M6	X	.109	.109	0	%100
8	M6	Z	-.188	-.188	0	%100
9	M7	X	.194	.194	0	%100
10	M7	Z	-.335	-.335	0	%100
11	M8	X	.185	.185	0	%100
12	M8	Z	-.321	-.321	0	%100
13	M9	X	.194	.194	0	%100
14	M9	Z	-.335	-.335	0	%100
15	M10	X	.185	.185	0	%100
16	M10	Z	-.321	-.321	0	%100
17	M11	X	.109	.109	0	%100
18	M11	Z	-.188	-.188	0	%100
19	M12	X	.109	.109	0	%100
20	M12	Z	-.188	-.188	0	%100
21	M13	X	.109	.109	0	%100
22	M13	Z	-.188	-.188	0	%100
23	M14	X	.109	.109	0	%100
24	M14	Z	-.188	-.188	0	%100
25	M15	X	.056	.056	0	%100
26	M15	Z	-.097	-.097	0	%100
27	M16	X	.056	.056	0	%100
28	M16	Z	-.097	-.097	0	%100
29	M17	X	.351	.351	0	%100
30	M17	Z	-.608	-.608	0	%100
31	M20	X	.02	.02	0	%100
32	M20	Z	-.034	-.034	0	%100
33	MP1A	X	.258	.258	0	%100
34	MP1A	Z	-.447	-.447	0	%100
35	MP2A	X	.312	.312	0	%100
36	MP2A	Z	-.541	-.541	0	%100
37	MP3A	X	.258	.258	0	%100
38	MP3A	Z	-.447	-.447	0	%100
39	MP4A	X	.258	.258	0	%100
40	MP4A	Z	-.447	-.447	0	%100
41	M33	X	.109	.109	0	%100
42	M33	Z	-.188	-.188	0	%100
43	M38	X	.234	.234	0	%100
44	M38	Z	-.406	-.406	0	%100
45	M39	X	.055	.055	0	%100
46	M39	Z	-.095	-.095	0	%100
47	M40	X	.385	.385	0	%100
48	M40	Z	-.668	-.668	0	%100
49	M41	X	.000173	.000173	0	%100
50	M41	Z	-.0003	-.0003	0	%100
51	M47	X	.094	.094	0	%100
52	M47	Z	-.162	-.162	0	%100
53	M48	X	.395	.395	0	%100
54	M48	Z	-.684	-.684	0	%100

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

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	OVP	X	.413	.413	0	%100
2	OVP	Z	-.238	-.238	0	%100
3	M4	X	.413	.413	0	%100
4	M4	Z	-.238	-.238	0	%100
5	M5	X	.188	.188	0	%100
6	M5	Z	-.109	-.109	0	%100
7	M6	X	.188	.188	0	%100
8	M6	Z	-.109	-.109	0	%100
9	M7	X	.112	.112	0	%100
10	M7	Z	-.065	-.065	0	%100
11	M8	X	.107	.107	0	%100
12	M8	Z	-.062	-.062	0	%100
13	M9	X	.112	.112	0	%100
14	M9	Z	-.065	-.065	0	%100
15	M10	X	.107	.107	0	%100
16	M10	Z	-.062	-.062	0	%100
17	M11	X	.188	.188	0	%100
18	M11	Z	-.109	-.109	0	%100
19	M12	X	.188	.188	0	%100
20	M12	Z	-.109	-.109	0	%100
21	M13	X	.188	.188	0	%100
22	M13	Z	-.109	-.109	0	%100
23	M14	X	.188	.188	0	%100
24	M14	Z	-.109	-.109	0	%100
25	M15	X	.126	.126	0	%100
26	M15	Z	-.073	-.073	0	%100
27	M16	X	.126	.126	0	%100
28	M16	Z	-.073	-.073	0	%100
29	M17	X	.608	.608	0	%100
30	M17	Z	-.351	-.351	0	%100
31	M20	X	.232	.232	0	%100
32	M20	Z	-.134	-.134	0	%100
33	MP1A	X	.447	.447	0	%100
34	MP1A	Z	-.258	-.258	0	%100
35	MP2A	X	.541	.541	0	%100
36	MP2A	Z	-.312	-.312	0	%100
37	MP3A	X	.447	.447	0	%100
38	MP3A	Z	-.258	-.258	0	%100
39	MP4A	X	.447	.447	0	%100
40	MP4A	Z	-.258	-.258	0	%100
41	M33	X	.188	.188	0	%100
42	M33	Z	-.109	-.109	0	%100
43	M38	X	.135	.135	0	%100
44	M38	Z	-.078	-.078	0	%100
45	M39	X	.035	.035	0	%100
46	M39	Z	-.02	-.02	0	%100
47	M40	X	.772	.772	0	%100
48	M40	Z	-.446	-.446	0	%100
49	M41	X	.102	.102	0	%100
50	M41	Z	-.059	-.059	0	%100
51	M47	X	.109	.109	0	%100
52	M47	Z	-.063	-.063	0	%100
53	M48	X	.774	.774	0	%100
54	M48	Z	-.447	-.447	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	.636	.636	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	.636	.636	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	.217	.217	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.217	.217	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	.217	.217	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	.217	.217	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	.217	.217	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	.217	.217	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	.163	.163	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	.163	.163	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	.702	.702	0	%100
30	M17	Z	0	0	0	%100
31	M20	X	.486	.486	0	%100
32	M20	Z	0	0	0	%100
33	MP1A	X	.516	.516	0	%100
34	MP1A	Z	0	0	0	%100
35	MP2A	X	.625	.625	0	%100
36	MP2A	Z	0	0	0	%100
37	MP3A	X	.516	.516	0	%100
38	MP3A	Z	0	0	0	%100
39	MP4A	X	.516	.516	0	%100
40	MP4A	Z	0	0	0	%100
41	M33	X	.217	.217	0	%100
42	M33	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39	X	.39	.39	0	%100
46	M39	Z	0	0	0	%100
47	M40	X	.581	.581	0	%100
48	M40	Z	0	0	0	%100
49	M41	X	.375	.375	0	%100
50	M41	Z	0	0	0	%100
51	M47	X	.44	.44	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	.627	.627	0	%100
54	M48	Z	0	0	0	%100

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

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	OVP	X	.413	.413	0	%100
2	OVP	Z	.238	.238	0	%100
3	M4	X	.413	.413	0	%100
4	M4	Z	.238	.238	0	%100
5	M5	X	.188	.188	0	%100
6	M5	Z	.109	.109	0	%100
7	M6	X	.188	.188	0	%100
8	M6	Z	.109	.109	0	%100
9	M7	X	.112	.112	0	%100
10	M7	Z	.065	.065	0	%100
11	M8	X	.107	.107	0	%100
12	M8	Z	.062	.062	0	%100
13	M9	X	.112	.112	0	%100
14	M9	Z	.065	.065	0	%100
15	M10	X	.107	.107	0	%100
16	M10	Z	.062	.062	0	%100
17	M11	X	.188	.188	0	%100
18	M11	Z	.109	.109	0	%100
19	M12	X	.188	.188	0	%100
20	M12	Z	.109	.109	0	%100
21	M13	X	.188	.188	0	%100
22	M13	Z	.109	.109	0	%100
23	M14	X	.188	.188	0	%100
24	M14	Z	.109	.109	0	%100
25	M15	X	.126	.126	0	%100
26	M15	Z	.073	.073	0	%100
27	M16	X	.126	.126	0	%100
28	M16	Z	.073	.073	0	%100
29	M17	X	.608	.608	0	%100
30	M17	Z	.351	.351	0	%100
31	M20	X	.413	.413	0	%100
32	M20	Z	.238	.238	0	%100
33	MP1A	X	.447	.447	0	%100
34	MP1A	Z	.258	.258	0	%100
35	MP2A	X	.541	.541	0	%100
36	MP2A	Z	.312	.312	0	%100
37	MP3A	X	.447	.447	0	%100
38	MP3A	Z	.258	.258	0	%100
39	MP4A	X	.447	.447	0	%100
40	MP4A	Z	.258	.258	0	%100
41	M33	X	.188	.188	0	%100
42	M33	Z	.109	.109	0	%100
43	M38	X	.135	.135	0	%100
44	M38	Z	.078	.078	0	%100
45	M39	X	.699	.699	0	%100
46	M39	Z	.403	.403	0	%100
47	M40	X	.13	.13	0	%100
48	M40	Z	.075	.075	0	%100
49	M41	X	.447	.447	0	%100
50	M41	Z	.258	.258	0	%100
51	M47	X	.707	.707	0	%100
52	M47	Z	.408	.408	0	%100
53	M48	X	.221	.221	0	%100
54	M48	Z	.128	.128	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	.079	.079	0	%100
2	OVP	Z	.138	.138	0	%100
3	M4	X	.079	.079	0	%100
4	M4	Z	.138	.138	0	%100
5	M5	X	.109	.109	0	%100
6	M5	Z	.188	.188	0	%100
7	M6	X	.109	.109	0	%100
8	M6	Z	.188	.188	0	%100
9	M7	X	.194	.194	0	%100
10	M7	Z	.335	.335	0	%100
11	M8	X	.185	.185	0	%100
12	M8	Z	.321	.321	0	%100
13	M9	X	.194	.194	0	%100
14	M9	Z	.335	.335	0	%100
15	M10	X	.185	.185	0	%100
16	M10	Z	.321	.321	0	%100
17	M11	X	.109	.109	0	%100
18	M11	Z	.188	.188	0	%100
19	M12	X	.109	.109	0	%100
20	M12	Z	.188	.188	0	%100
21	M13	X	.109	.109	0	%100
22	M13	Z	.188	.188	0	%100
23	M14	X	.109	.109	0	%100
24	M14	Z	.188	.188	0	%100
25	M15	X	.056	.056	0	%100
26	M15	Z	.097	.097	0	%100
27	M16	X	.056	.056	0	%100
28	M16	Z	.097	.097	0	%100
29	M17	X	.351	.351	0	%100
30	M17	Z	.608	.608	0	%100
31	M20	X	.124	.124	0	%100
32	M20	Z	.215	.215	0	%100
33	MP1A	X	.258	.258	0	%100
34	MP1A	Z	.447	.447	0	%100
35	MP2A	X	.312	.312	0	%100
36	MP2A	Z	.541	.541	0	%100
37	MP3A	X	.258	.258	0	%100
38	MP3A	Z	.447	.447	0	%100
39	MP4A	X	.258	.258	0	%100
40	MP4A	Z	.447	.447	0	%100
41	M33	X	.109	.109	0	%100
42	M33	Z	.188	.188	0	%100
43	M38	X	.234	.234	0	%100
44	M38	Z	.406	.406	0	%100
45	M39	X	.438	.438	0	%100
46	M39	Z	.758	.758	0	%100
47	M40	X	.015	.015	0	%100
48	M40	Z	.025	.025	0	%100
49	M41	X	.199	.199	0	%100
50	M41	Z	.345	.345	0	%100
51	M47	X	.439	.439	0	%100
52	M47	Z	.76	.76	0	%100
53	M48	X	.076	.076	0	%100
54	M48	Z	.131	.131	0	%100

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

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	OVP	X	0	0	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	.217	.217	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.217	.217	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.516	.516	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	.494	.494	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	.516	.516	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	.494	.494	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	.217	.217	0	%100
19	M12	X	0	0	0	%100
20	M12	Z	.217	.217	0	%100
21	M13	X	0	0	0	%100
22	M13	Z	.217	.217	0	%100
23	M14	X	0	0	0	%100
24	M14	Z	.217	.217	0	%100
25	M15	X	0	0	0	%100
26	M15	Z	.095	.095	0	%100
27	M16	X	0	0	0	%100
28	M16	Z	.095	.095	0	%100
29	M17	X	0	0	0	%100
30	M17	Z	.702	.702	0	%100
31	M20	X	0	0	0	%100
32	M20	Z	.03	.03	0	%100
33	MP1A	X	0	0	0	%100
34	MP1A	Z	.516	.516	0	%100
35	MP2A	X	0	0	0	%100
36	MP2A	Z	.625	.625	0	%100
37	MP3A	X	0	0	0	%100
38	MP3A	Z	.516	.516	0	%100
39	MP4A	X	0	0	0	%100
40	MP4A	Z	.516	.516	0	%100
41	M33	X	0	0	0	%100
42	M33	Z	.217	.217	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	.625	.625	0	%100
45	M39	X	0	0	0	%100
46	M39	Z	.526	.526	0	%100
47	M40	X	0	0	0	%100
48	M40	Z	.34	.34	0	%100
49	M41	X	0	0	0	%100
50	M41	Z	.141	.141	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.564	.564	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	.419	.419	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-.079	-.079	0	%100
2	OVP	Z	.138	.138	0	%100
3	M4	X	-.079	-.079	0	%100
4	M4	Z	.138	.138	0	%100
5	M5	X	-.109	-.109	0	%100
6	M5	Z	.188	.188	0	%100
7	M6	X	-.109	-.109	0	%100
8	M6	Z	.188	.188	0	%100
9	M7	X	-.194	-.194	0	%100
10	M7	Z	.335	.335	0	%100
11	M8	X	-.185	-.185	0	%100
12	M8	Z	.321	.321	0	%100
13	M9	X	-.194	-.194	0	%100
14	M9	Z	.335	.335	0	%100
15	M10	X	-.185	-.185	0	%100
16	M10	Z	.321	.321	0	%100
17	M11	X	-.109	-.109	0	%100
18	M11	Z	.188	.188	0	%100
19	M12	X	-.109	-.109	0	%100
20	M12	Z	.188	.188	0	%100
21	M13	X	-.109	-.109	0	%100
22	M13	Z	.188	.188	0	%100
23	M14	X	-.109	-.109	0	%100
24	M14	Z	.188	.188	0	%100
25	M15	X	-.056	-.056	0	%100
26	M15	Z	.097	.097	0	%100
27	M16	X	-.056	-.056	0	%100
28	M16	Z	.097	.097	0	%100
29	M17	X	-.351	-.351	0	%100
30	M17	Z	.608	.608	0	%100
31	M20	X	-.02	-.02	0	%100
32	M20	Z	.034	.034	0	%100
33	MP1A	X	-.258	-.258	0	%100
34	MP1A	Z	.447	.447	0	%100
35	MP2A	X	-.312	-.312	0	%100
36	MP2A	Z	.541	.541	0	%100
37	MP3A	X	-.258	-.258	0	%100
38	MP3A	Z	.447	.447	0	%100
39	MP4A	X	-.258	-.258	0	%100
40	MP4A	Z	.447	.447	0	%100
41	M33	X	-.109	-.109	0	%100
42	M33	Z	.188	.188	0	%100
43	M38	X	-.234	-.234	0	%100
44	M38	Z	.406	.406	0	%100
45	M39	X	-.055	-.055	0	%100
46	M39	Z	.095	.095	0	%100
47	M40	X	-.385	-.385	0	%100
48	M40	Z	.668	.668	0	%100
49	M41	X	-.000173	-.000173	0	%100
50	M41	Z	.0003	.0003	0	%100
51	M47	X	-.094	-.094	0	%100
52	M47	Z	.162	.162	0	%100
53	M48	X	-.395	-.395	0	%100
54	M48	Z	.684	.684	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-.413	-.413	0	%100
2	OVP	Z	.238	.238	0	%100
3	M4	X	-.413	-.413	0	%100
4	M4	Z	.238	.238	0	%100
5	M5	X	-.188	-.188	0	%100
6	M5	Z	.109	.109	0	%100
7	M6	X	-.188	-.188	0	%100
8	M6	Z	.109	.109	0	%100
9	M7	X	-.112	-.112	0	%100
10	M7	Z	.065	.065	0	%100
11	M8	X	-.107	-.107	0	%100
12	M8	Z	.062	.062	0	%100
13	M9	X	-.112	-.112	0	%100
14	M9	Z	.065	.065	0	%100
15	M10	X	-.107	-.107	0	%100
16	M10	Z	.062	.062	0	%100
17	M11	X	-.188	-.188	0	%100
18	M11	Z	.109	.109	0	%100
19	M12	X	-.188	-.188	0	%100
20	M12	Z	.109	.109	0	%100
21	M13	X	-.188	-.188	0	%100
22	M13	Z	.109	.109	0	%100
23	M14	X	-.188	-.188	0	%100
24	M14	Z	.109	.109	0	%100
25	M15	X	-.126	-.126	0	%100
26	M15	Z	.073	.073	0	%100
27	M16	X	-.126	-.126	0	%100
28	M16	Z	.073	.073	0	%100
29	M17	X	-.608	-.608	0	%100
30	M17	Z	.351	.351	0	%100
31	M20	X	-.232	-.232	0	%100
32	M20	Z	.134	.134	0	%100
33	MP1A	X	-.447	-.447	0	%100
34	MP1A	Z	.258	.258	0	%100
35	MP2A	X	-.541	-.541	0	%100
36	MP2A	Z	.312	.312	0	%100
37	MP3A	X	-.447	-.447	0	%100
38	MP3A	Z	.258	.258	0	%100
39	MP4A	X	-.447	-.447	0	%100
40	MP4A	Z	.258	.258	0	%100
41	M33	X	-.188	-.188	0	%100
42	M33	Z	.109	.109	0	%100
43	M38	X	-.135	-.135	0	%100
44	M38	Z	.078	.078	0	%100
45	M39	X	-.035	-.035	0	%100
46	M39	Z	.02	.02	0	%100
47	M40	X	-.772	-.772	0	%100
48	M40	Z	.446	.446	0	%100
49	M41	X	-.102	-.102	0	%100
50	M41	Z	.059	.059	0	%100
51	M47	X	-.109	-.109	0	%100
52	M47	Z	.063	.063	0	%100
53	M48	X	-.774	-.774	0	%100
54	M48	Z	.447	.447	0	%100

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

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-.636	-.636	0	%100
2	OVP	Z	0	0	0	%100
3	M4	X	-.636	-.636	0	%100
4	M4	Z	0	0	0	%100
5	M5	X	-.217	-.217	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.217	-.217	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M8	X	0	0	0	%100
12	M8	Z	0	0	0	%100
13	M9	X	0	0	0	%100
14	M9	Z	0	0	0	%100
15	M10	X	0	0	0	%100
16	M10	Z	0	0	0	%100
17	M11	X	-.217	-.217	0	%100
18	M11	Z	0	0	0	%100
19	M12	X	-.217	-.217	0	%100
20	M12	Z	0	0	0	%100
21	M13	X	-.217	-.217	0	%100
22	M13	Z	0	0	0	%100
23	M14	X	-.217	-.217	0	%100
24	M14	Z	0	0	0	%100
25	M15	X	-.163	-.163	0	%100
26	M15	Z	0	0	0	%100
27	M16	X	-.163	-.163	0	%100
28	M16	Z	0	0	0	%100
29	M17	X	-.702	-.702	0	%100
30	M17	Z	0	0	0	%100
31	M20	X	-.486	-.486	0	%100
32	M20	Z	0	0	0	%100
33	MP1A	X	-.516	-.516	0	%100
34	MP1A	Z	0	0	0	%100
35	MP2A	X	-.625	-.625	0	%100
36	MP2A	Z	0	0	0	%100
37	MP3A	X	-.516	-.516	0	%100
38	MP3A	Z	0	0	0	%100
39	MP4A	X	-.516	-.516	0	%100
40	MP4A	Z	0	0	0	%100
41	M33	X	-.217	-.217	0	%100
42	M33	Z	0	0	0	%100
43	M38	X	0	0	0	%100
44	M38	Z	0	0	0	%100
45	M39	X	-.39	-.39	0	%100
46	M39	Z	0	0	0	%100
47	M40	X	-.581	-.581	0	%100
48	M40	Z	0	0	0	%100
49	M41	X	-.375	-.375	0	%100
50	M41	Z	0	0	0	%100
51	M47	X	-.44	-.44	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-.627	-.627	0	%100
54	M48	Z	0	0	0	%100

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

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	OVP	X	-.413	-.413	0	%100
2	OVP	Z	-.238	-.238	0	%100
3	M4	X	-.413	-.413	0	%100
4	M4	Z	-.238	-.238	0	%100
5	M5	X	-.188	-.188	0	%100
6	M5	Z	-.109	-.109	0	%100
7	M6	X	-.188	-.188	0	%100
8	M6	Z	-.109	-.109	0	%100
9	M7	X	-.112	-.112	0	%100
10	M7	Z	-.065	-.065	0	%100
11	M8	X	-.107	-.107	0	%100
12	M8	Z	-.062	-.062	0	%100
13	M9	X	-.112	-.112	0	%100
14	M9	Z	-.065	-.065	0	%100
15	M10	X	-.107	-.107	0	%100
16	M10	Z	-.062	-.062	0	%100
17	M11	X	-.188	-.188	0	%100
18	M11	Z	-.109	-.109	0	%100
19	M12	X	-.188	-.188	0	%100
20	M12	Z	-.109	-.109	0	%100
21	M13	X	-.188	-.188	0	%100
22	M13	Z	-.109	-.109	0	%100
23	M14	X	-.188	-.188	0	%100
24	M14	Z	-.109	-.109	0	%100
25	M15	X	-.126	-.126	0	%100
26	M15	Z	-.073	-.073	0	%100
27	M16	X	-.126	-.126	0	%100
28	M16	Z	-.073	-.073	0	%100
29	M17	X	-.608	-.608	0	%100
30	M17	Z	-.351	-.351	0	%100
31	M20	X	-.413	-.413	0	%100
32	M20	Z	-.238	-.238	0	%100
33	MP1A	X	-.447	-.447	0	%100
34	MP1A	Z	-.258	-.258	0	%100
35	MP2A	X	-.541	-.541	0	%100
36	MP2A	Z	-.312	-.312	0	%100
37	MP3A	X	-.447	-.447	0	%100
38	MP3A	Z	-.258	-.258	0	%100
39	MP4A	X	-.447	-.447	0	%100
40	MP4A	Z	-.258	-.258	0	%100
41	M33	X	-.188	-.188	0	%100
42	M33	Z	-.109	-.109	0	%100
43	M38	X	-.135	-.135	0	%100
44	M38	Z	-.078	-.078	0	%100
45	M39	X	-.699	-.699	0	%100
46	M39	Z	-.403	-.403	0	%100
47	M40	X	-.13	-.13	0	%100
48	M40	Z	-.075	-.075	0	%100
49	M41	X	-.447	-.447	0	%100
50	M41	Z	-.258	-.258	0	%100
51	M47	X	-.707	-.707	0	%100
52	M47	Z	-.408	-.408	0	%100
53	M48	X	-.221	-.221	0	%100
54	M48	Z	-.128	-.128	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	OVP	X	-.079	-.079	0	%100
2	OVP	Z	-.138	-.138	0	%100
3	M4	X	-.079	-.079	0	%100
4	M4	Z	-.138	-.138	0	%100
5	M5	X	-.109	-.109	0	%100
6	M5	Z	-.188	-.188	0	%100
7	M6	X	-.109	-.109	0	%100
8	M6	Z	-.188	-.188	0	%100
9	M7	X	-.194	-.194	0	%100
10	M7	Z	-.335	-.335	0	%100
11	M8	X	-.185	-.185	0	%100
12	M8	Z	-.321	-.321	0	%100
13	M9	X	-.194	-.194	0	%100
14	M9	Z	-.335	-.335	0	%100
15	M10	X	-.185	-.185	0	%100
16	M10	Z	-.321	-.321	0	%100
17	M11	X	-.109	-.109	0	%100
18	M11	Z	-.188	-.188	0	%100
19	M12	X	-.109	-.109	0	%100
20	M12	Z	-.188	-.188	0	%100
21	M13	X	-.109	-.109	0	%100
22	M13	Z	-.188	-.188	0	%100
23	M14	X	-.109	-.109	0	%100
24	M14	Z	-.188	-.188	0	%100
25	M15	X	-.056	-.056	0	%100
26	M15	Z	-.097	-.097	0	%100
27	M16	X	-.056	-.056	0	%100
28	M16	Z	-.097	-.097	0	%100
29	M17	X	-.351	-.351	0	%100
30	M17	Z	-.608	-.608	0	%100
31	M20	X	-.124	-.124	0	%100
32	M20	Z	-.215	-.215	0	%100
33	MP1A	X	-.258	-.258	0	%100
34	MP1A	Z	-.447	-.447	0	%100
35	MP2A	X	-.312	-.312	0	%100
36	MP2A	Z	-.541	-.541	0	%100
37	MP3A	X	-.258	-.258	0	%100
38	MP3A	Z	-.447	-.447	0	%100
39	MP4A	X	-.258	-.258	0	%100
40	MP4A	Z	-.447	-.447	0	%100
41	M33	X	-.109	-.109	0	%100
42	M33	Z	-.188	-.188	0	%100
43	M38	X	-.234	-.234	0	%100
44	M38	Z	-.406	-.406	0	%100
45	M39	X	-.438	-.438	0	%100
46	M39	Z	-.758	-.758	0	%100
47	M40	X	-.015	-.015	0	%100
48	M40	Z	-.025	-.025	0	%100
49	M41	X	-.199	-.199	0	%100
50	M41	Z	-.345	-.345	0	%100
51	M47	X	-.439	-.439	0	%100
52	M47	Z	-.76	-.76	0	%100
53	M48	X	-.076	-.076	0	%100
54	M48	Z	-.131	-.131	0	%100

Member Area Loads

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

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc.....	LC	phi*Pn....	phi*Pn....	phi*Mn....	phi*Mn.....	Eqn	
1	OVP	PIPE_3.5	.105	2.734	24	.094	0	42	74362....	78750	7.954	7.954	1...H1-1b	
2	M4	PIPE_3.5	.118	2.734	21	.093	2.773	42	74362....	78750	7.954	7.954	1...H1-1b	
3	M5	SR 1	.009	1.333	6	.013	0	42	16658....	25434	.423	.423	1...H1-1b	
4	M6	SR 1	.009	1.333	3	.011	0	41	16658....	25434	.423	.423	1...H1-1b	
5	M7	PIPE_2.0	.452	5.385	7	.189	5.957	1	15395....	32130	1.872	1.872	1...H1-1b	
6	M8	PIPE_2.0	.247	1.734	48	.171	3.75	5	25203....	32130	1.872	1.872	2...H1-1b	
7	M9	PIPE_2.0	.479	5.957	1	.235	5.957	24	15395....	32130	1.872	1.872	2...H1-1b	
8	M10	PIPE_2.0	.335	2.484	11	.172	3.75	11	25203....	32130	1.872	1.872	1...H1-1b	
9	M11	SR 1	.012	1.333	11	.050	0	45	16658....	25434	.423	.423	1...H1-1b	
10	M12	SR 1	.065	2.667	11	.028	0	39	16658....	25434	.423	.423	1...H1-1b*	
11	M13	SR 1	.011	1.333	5	.054	0	11	16658....	25434	.423	.423	1...H1-1b	
12	M14	SR 1	.010	1.333	12	.023	0	20	16658....	25434	.423	.423	1...H1-1b	
13	M15	SR 0.75	.474	1.817	23	.005	3.489	2	4084.9....	14313....	.179	.179	1...H1-1a	
14	M16	SR 0.75	.097	1.745	24	.005	0	7	4084.9....	14313....	.179	.179	1...H1-1b	
15	M17	PIPE_4.0	.118	4.539	24	.166	.711	21	85371....	93240	10.631	10.631	1...H1-1b	
16	M20	PIPE_2.0	.037	3.188	5	.003	6.376	22	19735....	32130	1.872	1.872	1...H1-1b	
17	MP1A	PIPE_2.0	.248	5.615	12	.164	4.667	11	17855....	32130	1.872	1.872	3...H1-1b	
18	MP2A	PIPE_2.5	.156	1.969	7	.124	5.615	12	33961....	50715	3.596	3.596	2...H1-1b	
19	MP3A	PIPE_2.0	.312	4.667	11	.214	5.615	39	17855....	32130	1.872	1.872	3...H1-1b	
20	MP4A	PIPE_2.0	.322	4.667	11	.161	5.615	11	17855....	32130	1.872	1.872	3...H1-1b	
21	M33	SR 1	.008	1.333	5	.043	0	44	16658....	25434	.423	.423	1...H1-1b	
22	M38	PIPE_2.5	.349	7.066	1	.106	6.937	41	14954....	50715	3.596	3.596	1...H1-1b	
23	M39	L2.5x2.5x4	.249	3.554	5	.012	0	y	41	8944.6....	38556	1.114	2.069	1...H2-1
24	M40	L2.5x2.5x4	.098	2.91	2	.011	0	z	12	13345....	38556	1.114	2.182	1...H2-1
25	M41	PIPE_2.0	.445	6.323	11	.006	12....	23	6150.6....	32130	1.872	1.872	1...H1-1a	
26	M47	L2.5x2.5x4	.104	3.666	12	.013	0	y	44	8066.6....	38556	1.114	2.039	1...H2-1
27	M48	L2.5x2.5x4	.096	3.073	12	.013	6.146	y	9	11481....	38556	1.114	2.141	1...H2-1

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	N30	max	680.884	21	1166.687	22	-502.105	2	-.127	3	0	51	.441	23
2		min	64.542	2	335.616	3	-2108.071	21	-.441	23	0	1	.127	3
3	N31	max	-86.149	7	1204.437	13	2047.121	24	-.126	5	0	51	.442	24
4		min	-689.779	14	304.165	7	759.829	6	-.442	24	0	1	.126	5
5	N32	max	138.355	11	29.588	23	566.722	5	0	51	0	51	0	51
6		min	-161.692	5	13.072	2	-464.606	11	0	1	0	1	0	1
7	N71	max	1551.59	11	270.233	2	1488.22	2	.002	38	0	11	.002	11
8		min	-1516.172	5	-180.671	8	-1314.773	8	0	8	0	5	-.002	5
9	N76	max	959.012	5	58.885	17	1924.219	11	0	51	0	51	0	51
10		min	-1126.209	11	24.941	11	-1662.118	5	0	1	0	1	0	1
11	N87	max	894.753	11	516.835	7	460.265	1	.002	8	0	41	0	11
12		min	-735.744	5	-189.018	1	-950.975	7	0	2	0	11	-.002	41
13	Totals:	max	1541.18	10	2796.228	17	2142.232	1						
14		min	-1541.184	4	1333.001	12	-2142.237	7						



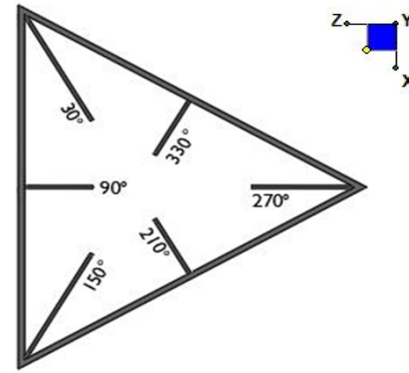
Client:	Verizon Wireless	Date:	7/13/2021
Site Name:	ROXBURY CT		
Project No.	21777244A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N30	45
N31	45



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch):

d_y (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

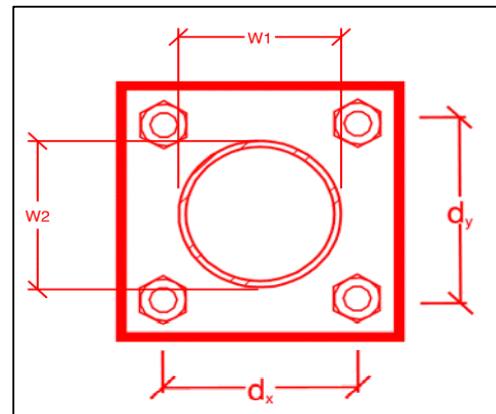
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
5
3.5
A325N
0.5
2.0
4.6
13.3
8.0
3.7%*
14.3%



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

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

Photo Requirements:

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

- *Photos taken at Mount Elevation*

- Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.

These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis

- Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
- Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
- Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
 - If the drawings are as specified on the drawings

The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized

It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

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

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

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

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

Certifying Individual: Company _____

Name _____

Signature _____

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

Issue:

Connect the proposed OVP to the top standoff horizontal of the Alpha sector.

Response:

--

Schedule A – Photo & Document File Structure



VzW Site Number / Name



Base & “During Installation” Photos



Pre-Installation Photos



Alpha



Beta



Gamma



Ground Level



Tape Drop



Post-Installation Photos



Alpha



Beta



Gamma



Ground Level



Tape Drop



Photos of climbing facility and safety climb – If Present



Certifications – Submission of this document including certifications



Specific Required Additional Photos

Sector: A

7/13/2021

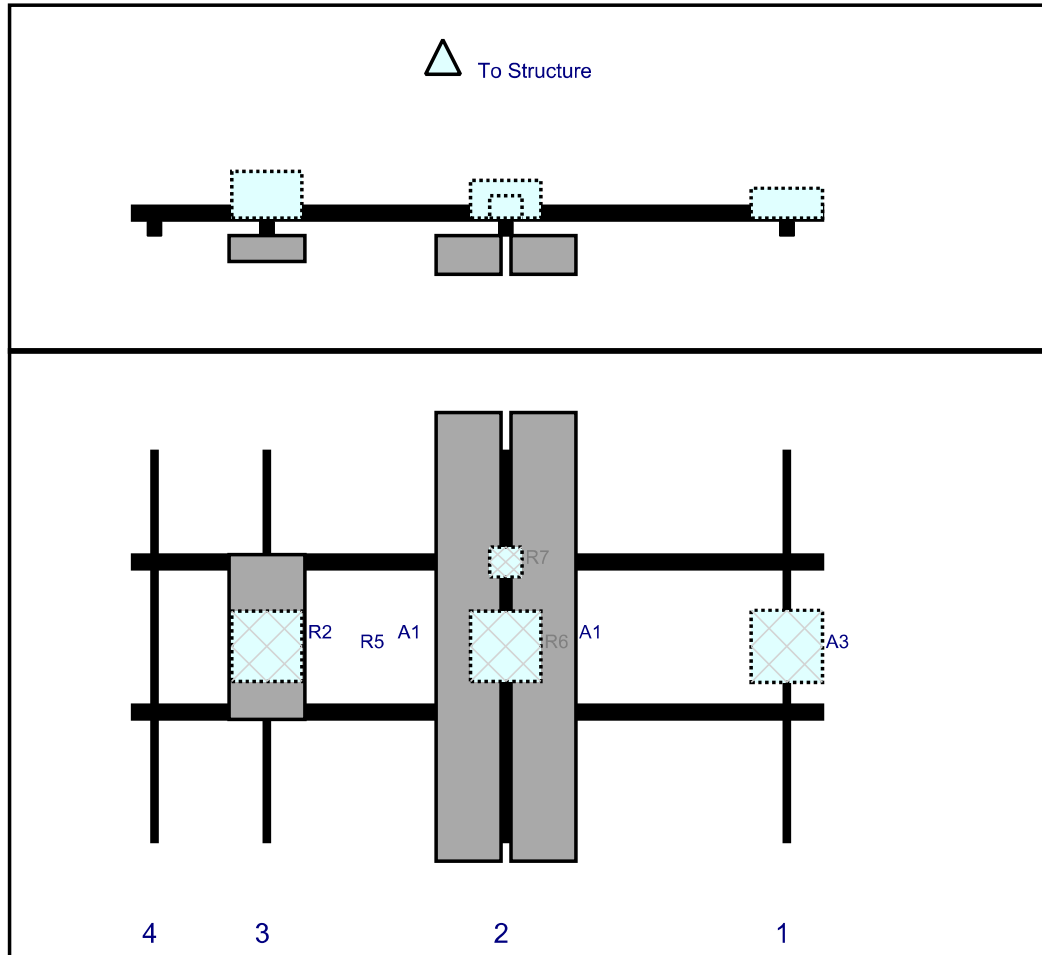
Structure Type: Self Support

10085201

Mount Elev: 164.00

Page: 1

Plan View

Front View
Looking at Structure

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	TD-850B-LTE78-43	15.4	15.2	140	1	a	Behind	42	0	Added	
A1	JAHH-65C-R3B-V2	95.7	13.8	80	2	a	Front	39.96	8	Added	
A1	JAHH-65C-R3B-V2	95.7	13.8	80	2	b	Front	39.96	-8	Added	
R6	B5/B13 RRH-BR04C	15	15	80	2	a	Behind	42	0	Added	
R7	CBC78T-DS-43-2X	6.4	6.9	80	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	29	3	a	Front	39.96	0	Added	
R5	B2/B66A RRH-BR049	15	15	29	3	a	Behind	42	0	Added	

Sector: **B**

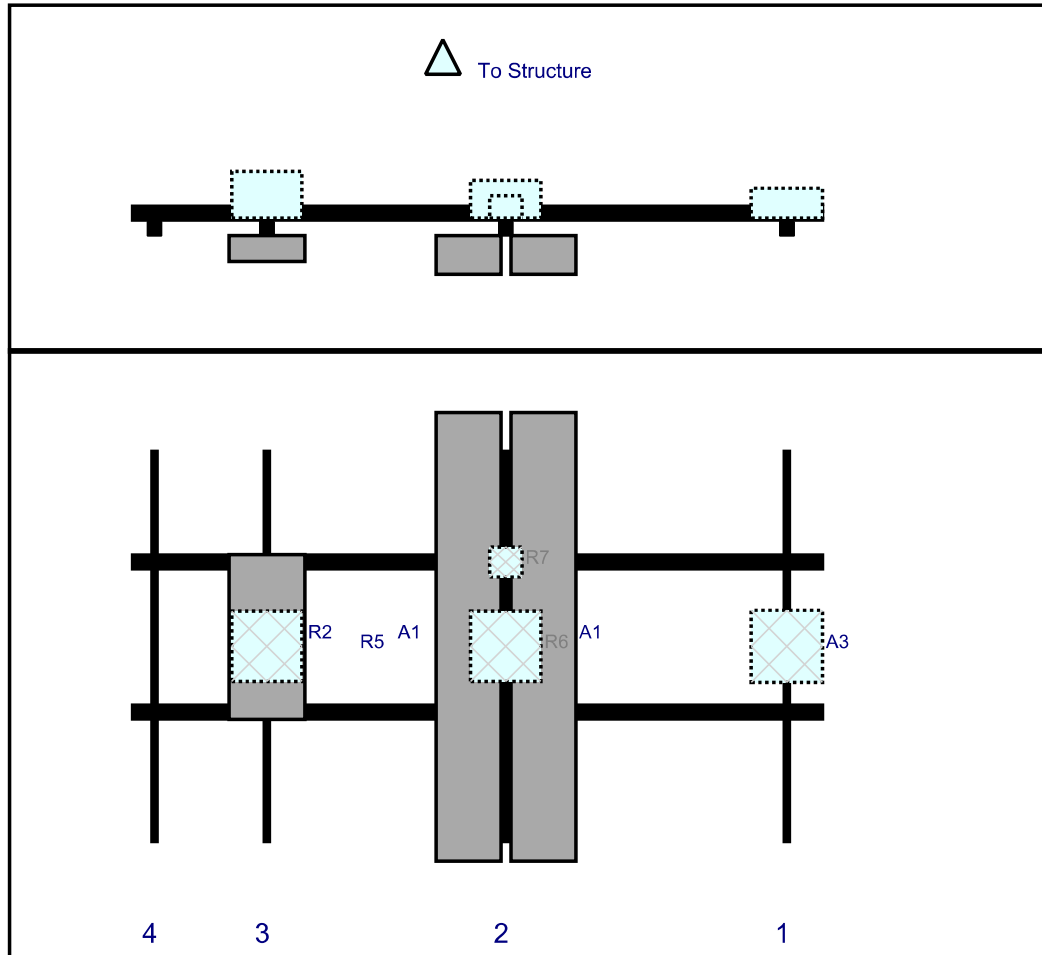
7/13/2021

Structure Type: Self Support

10085201

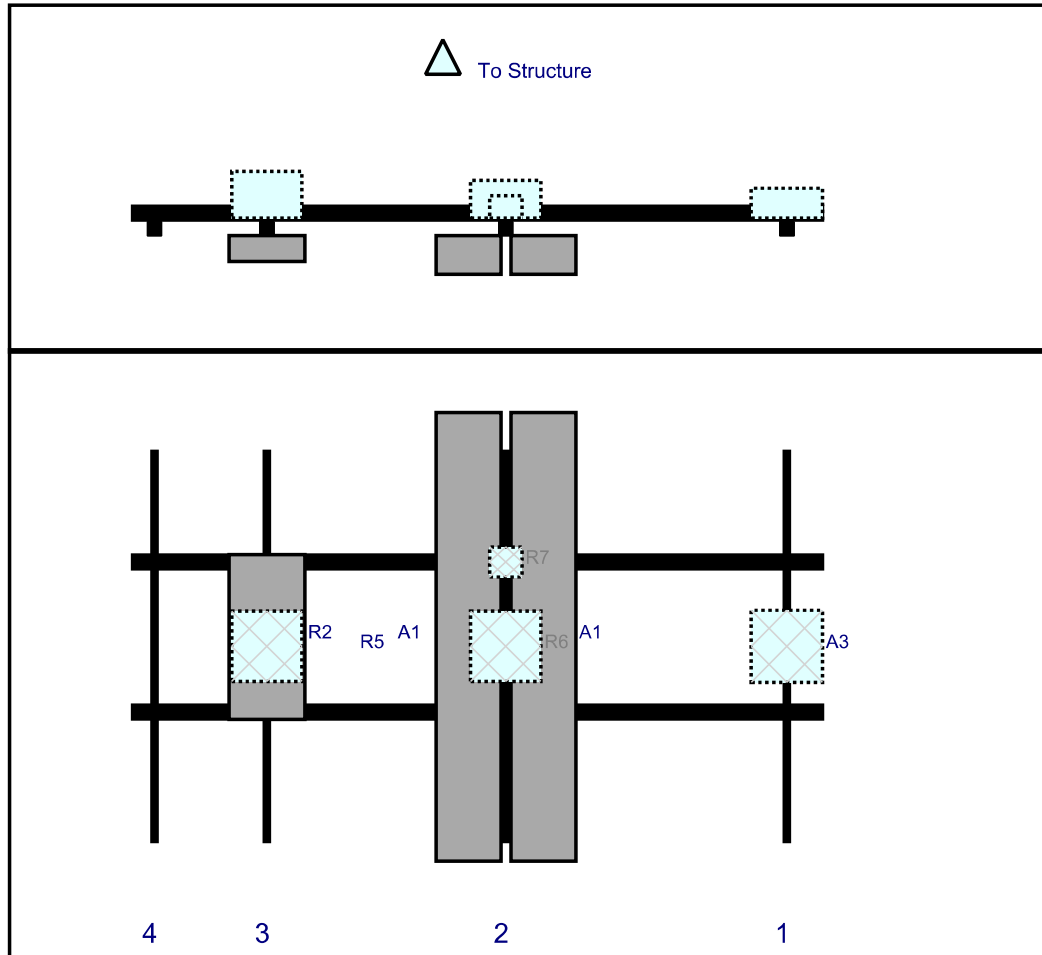
Mount Elev: 164.00

Page: 2

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
A3	TD-850B-LTE78-43	15.4	15.2	140	1	a	Behind	42	0	Added	
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R6	B5/B13 RRH-BR04C	15	15	80	2	a	Behind	42	0	Added	
R7	CBC78T-DS-43-2X	6.4	6.9	80	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	29	3	a	Front	39.96	0	Added	
R5	B2/B66A RRH-BR049	15	15	29	3	a	Behind	42	0	Added	

Plan View

Front View
Looking at Structure

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
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A1	JAHH-65C-R3B-V2	95.7	13.8	80	2	a	Front	39.96	8	Added	
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R7	CBC78T-DS-43-2X	6.4	6.9	80	2	a	Behind	24	0	Added	
R2	MT6407-77A	35.1	16.1	29	3	a	Front	39.96	0	Added	
R5	B2/B66A RRH-BR049	15	15	29	3	a	Behind	42	0	Added	

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID:	468203-VZW / ROXBURY CT
Site Name:	ROXBURY CT
Carrier Name:	Verizon Wireless
Address:	35 Lower County Road Roxbury, Connecticut 06783 Litchfield County
Latitude:	41.559622°
Longitude:	-73.292233°

Structure Information

Tower Type:	Self-Support
Mount Type:	12.00-Ft T-Frame

To Whom It May Concern,

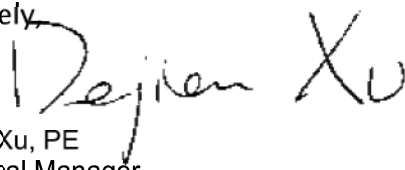
We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

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

BILL OF MATERIALS				
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	VZWSMART KITS
4		VZWSMART-SFK1	TIE BACK ASSEMBLY	NOTES: SWAP (3) of (6) PIPES IN KIT WITH 162" LONG P2.0 PIPE. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2; PROPOSED TE-BACK SHALL EXTEND NO MORE THAN 12" BEYOND THE TOWER LEG. CONTRACTOR SHALL TRIM AS REQUIRED AND PROTECT CUT END WITH TWO COATINGS OF GALSOL. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2.
6		VZWSMART-SFK3	V-BRACING KIT	
18		VZWSMART-MSK1	CROSSOVER PLATE	
	VZWSMART			

OTHER REQUIRED PARTS					
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	MATERIAL	NOTES
3	-	-	190" LONG P2.5 STD	GALVANIZED	
3	-	-	84" LONG P2.5 STD	GALVANIZED	
3	-	-	162" LONG P2.0 STD	GALVANIZED	
6	SITE PRO I	PUCK	ADJUSTABLE CLAMP PLATE	OR EQR APPROVED EQUAL CONTACT MASER CONSULTING CONNECTICUT FOR APPROVAL OF SUBSTITUTION	

NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR

CONTACT PHONE PHONE EMAIL WEBSITE	COMMSCOPE	
	SALVADOR ANGUIANO	
	(817) 304-1492	
	SALVADOR.ANGUIANO@COMMSCOPE.COM WWW.COMMSCOPE.COM	
CONTACT PHONE PHONE EMAIL WEBSITE	METROSITE FABRICATORS, LLC	
	KENT RANEY	
	(706) 335-7045 (O), (706) 982-9788 (M)	
	KENT@METROSITELLC.COM METROSITELLC.COM METROSITEFABRICATORS.COM	
CONTACT PHONE PHONE EMAIL WEBSITE	PERFECTVISION	
	WIRELESS SALES	
	(848) 887-4723	
	WWW.PERFECT-VISION.COM WIRELESS@PERFECT-VISION.COM WIRELESS@PERFECT-VISION.COM	
CONTACT PHONE PHONE EMAIL WEBSITE	SABRE INDUSTRIES, INC.	
	ANGIE WELCH	
	(866) 438-4937	
	AKWELCH@SABREINDUSTRIES.COM WWW.SABREISOLUTIONS.COM	
CONTACT PHONE PHONE EMAIL WEBSITE	SITE PRO 1	
	PAULIA BOSWELL	
	(972) 236-9843	
	PAULIA.BOSWELL@VALPOINT.COM WWW.SITEPRO1.COM	

NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI



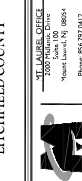
Digitally signed by Justin
Date: 2024.07.16 10:00:00

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

SITE NAME:

ROXBURY CT
468203

35 LOWER COUNTY RD
ROXBURY, CT 06783
WITCHFIELD COUNTY



TEST TITLE: _____

BILL OF MATERIALS

5-SHEET NUMBER:

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

GENERAL NOTES

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

DESIGN LOADS

- WIND LOADS
- a. BASIC WIND SPEED (3 SECOND GUST), $V = 115$ MPH
- b. EXPOSURE CATEGORY B
- c. TOPOGRAPHIC CATEGORY 1
- d. MEAN BASE ELEVATION (AMSL) = 867.85'
- ICE LOADS
- a. ICE WIND SPEED (3 SECOND GUST), $V = 50$ MPH
- b. ICE THICKNESS = 1.00 IN
- SEISMIC LOADS
- a. SEISMIC DESIGN CATEGORY B
- b. SHORT TERM MCEER GROUND MOTION, $S_s = .195$
- c. LONG TERM MCEER GROUND MOTION, $S_h = .054$

STRUCTURAL STEEL

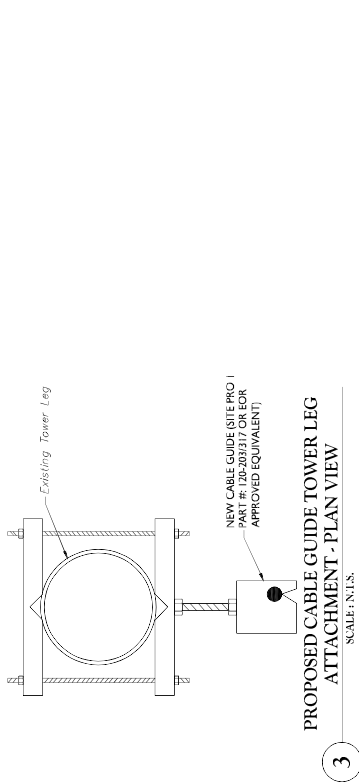
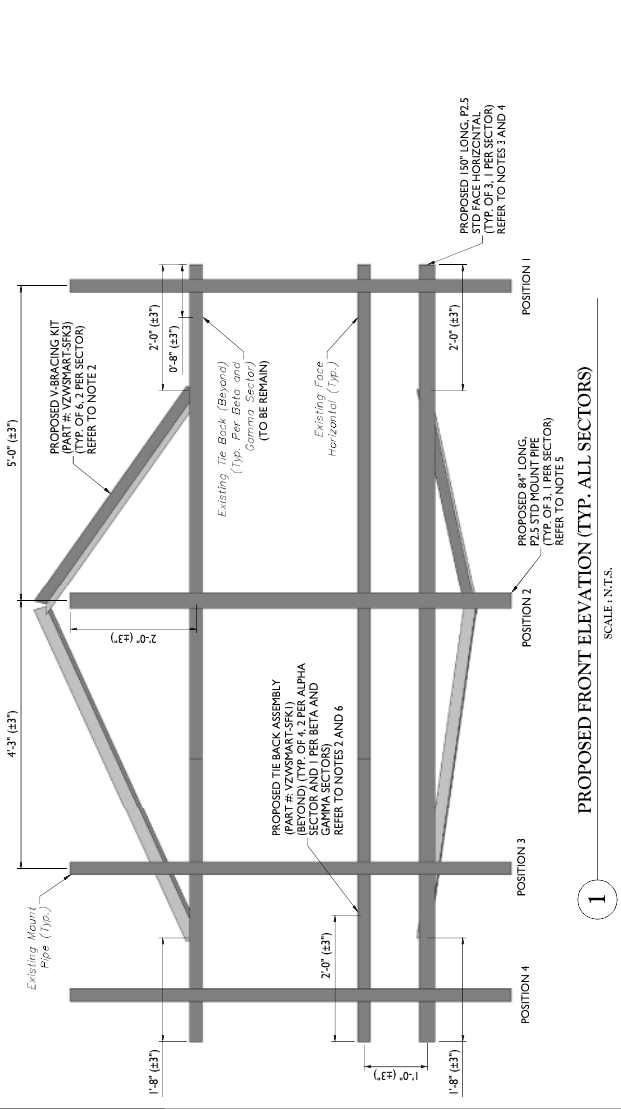
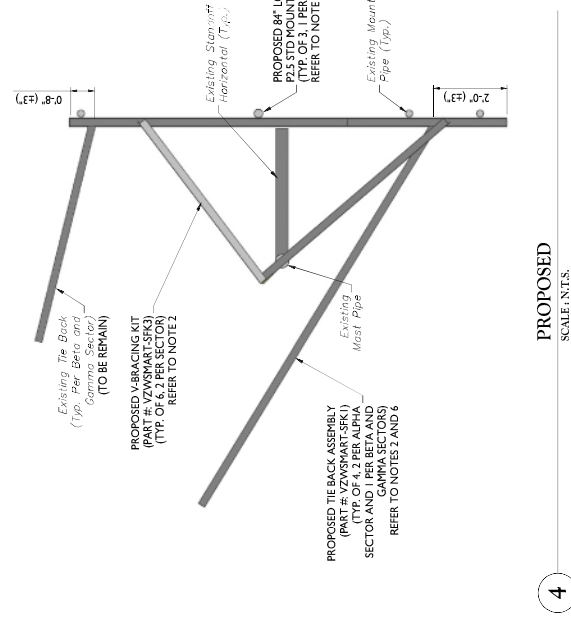
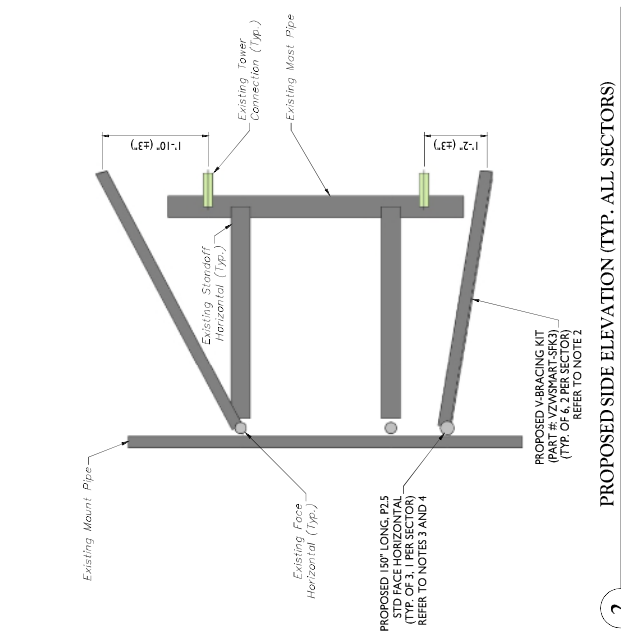
1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
- a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
- b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
- c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
- CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36)
- STEEL PIPE ASTM A53 (GR 35)
- BOLTS ASTM A325
- LOCK WASHERS LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REINFORCEMENT, SHALL BE NOTED IN THE SHOP DRAWINGS. COSTS CREDITED TO THE CONTRACTOR SHALL BE NOTED IN THE SHOP DRAWINGS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
- a. SUBMIT SHOP DRAWINGS TO PETER ALBANO@COLLIERSENGINEERING.COM
- b. PROVIDE MASER CONSULTING CONNECTICUT PROJECT # AND MASER CONSULTING CONNECTICUT PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

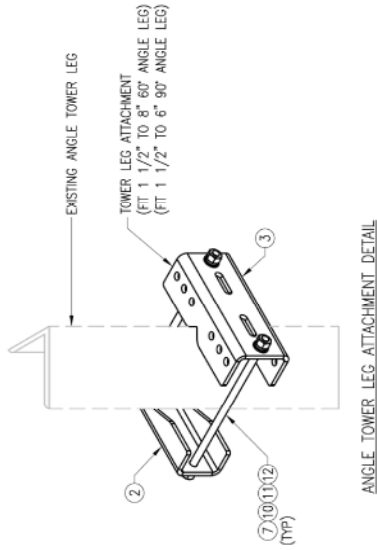
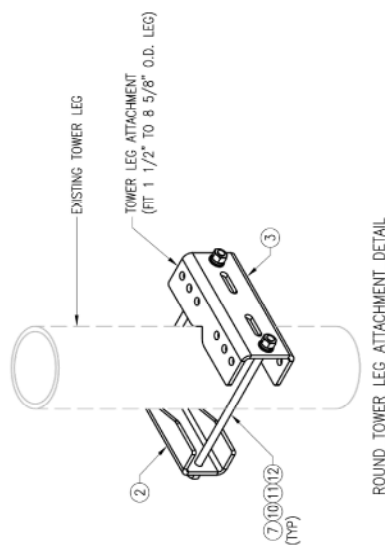


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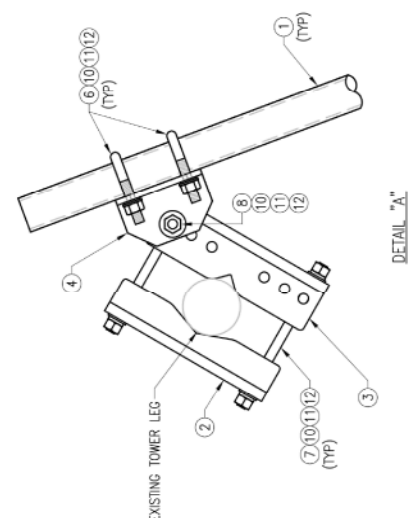
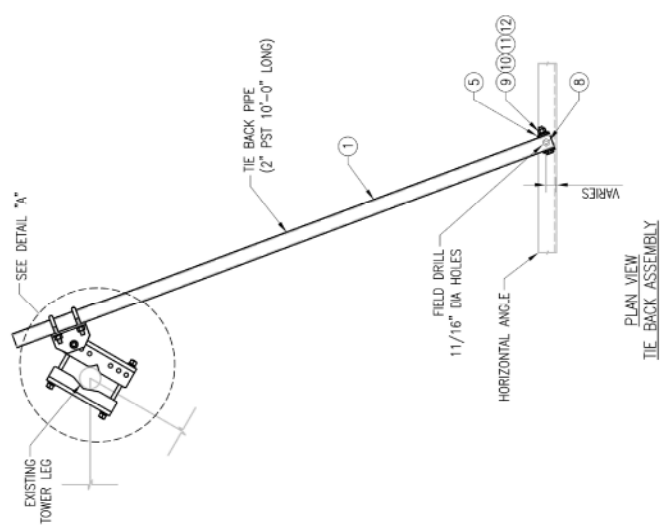
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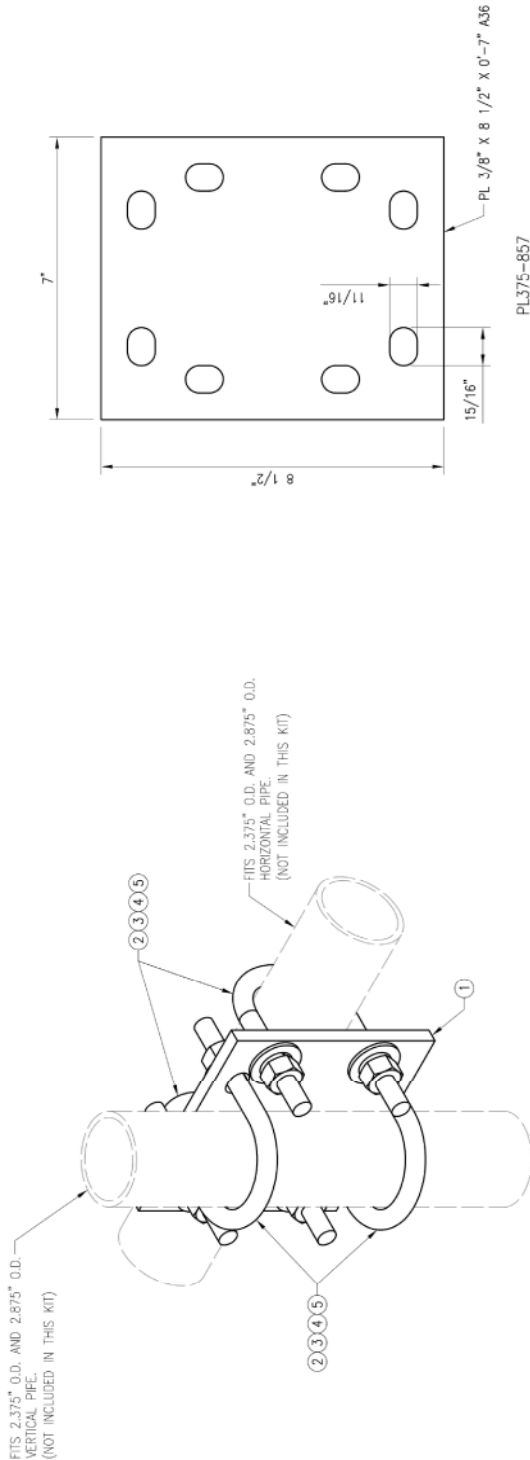
- MODIFICATION NOTES:**
1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
 2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
 3. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
 4. CONNECT NEW HORIZONTAL TO ALL EXISTING AND PROPOSED VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-HSK1).
 5. CONNECT NEW MOUNT PIPE TO ALL EXISTING HORIZONTALS WITH CROSSOVER PLATES (PART #: VZWSMART-HSK1).
 6. CONNECT NEW TIE BACK TO EXISTING TOP AND BOTTOM FACE HORIZONTALS WITH ADJUSTABLE CLAMP PLATES (SITE PRO 1 PART#: PUCK OR EOR APPROVED EQUAL, CONTACT MASTER CONSULTING CONNECTICUT FOR APPROVAL OF SUBSTITUTION). CONNECT OTHER END TO ADJACENT TOWER LEG. SWAY PIPE IN KIT FOR 162' LONG P210 FOR THE BACK BETWEEN EXISTING MOUNT PIPES IN POSITIONS 3 & 4. PROPOSED TIE-BACK SHALL EXCEED NO MORE THAN 12" BEYOND THE TOWER LEG. CONTRACTOR SHALL TRIM AS REQUIRED AND PROTECT CUT END WITH TWO COATS OF ZINC OR ZINC COE.



ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PS12375-10	2" PST (2.375" O.D. X 0.154" THK) X 10'-0" A53 GR-B 35KSI	SFK1-F1	38
2	1	EP825-12	PL 3/8" X 8 1/4" X 1'-0" A36 BENT PLATE	SFK1-F2	11
3	1	BF1125-12	PL 3/8" X 11 1/8" X 1'-0" A36 BENT PLATE	SFK1-F3	14
4	1	EP6-9375	PL 3/8" X 6" X 9 3/8" A36 BENT PLATE	SFK1-F4	6
5	1	BP2-875	PL 1/4" X 2" X 8 3/4" A36 BENT PLATE	SFK1-F4	1
6	2	M302-625-300-500	RJ-BOLT 5/8" X 3" LW X 5" I.L. A36 (OR EQUIV.)	REC-1	2
7	2	---	THREADED ROD 5/8" DIA. X 1'-6" F1554-36 HOG	---	0
8	2	---	BOLT 5/8" X 2" A325	---	0
9	1	---	BOLT 5/8" X 4 1/4" A325	---	0
10	11	FW-625	5/8" HDG USS FAT WASHER	---	1
11	11	LW-625	5/8" HDG LOCK WASHER	---	0
12	11	NUT-625	5/8" HDG HEX NUT	---	1
					GALVANIZED WT
					72



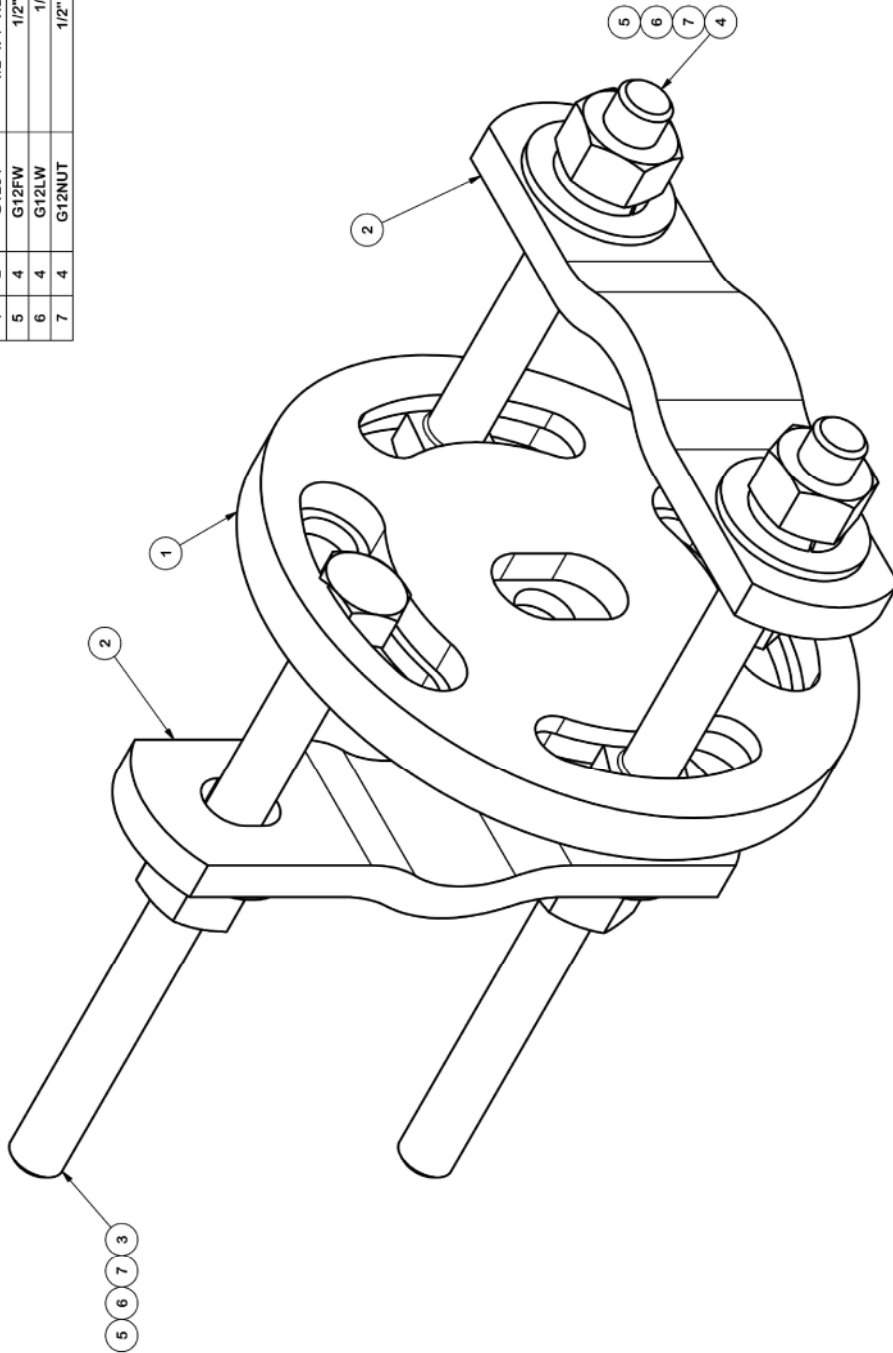
NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.



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

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

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALVANIZED)		2.48	2.48
2	2	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	1.83
3	2	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	0.82
4	2	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	0.54
5	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
6	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
7	4	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.29
TOTAL WT. #						6.16



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES (± 0.0307)
 DRILLED AND GAS CUT HOLES (± 0.0007) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES (± 0.0107) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING (± 0.0307)
 ALL OTHER ASSEMBLY (± 0.0607)

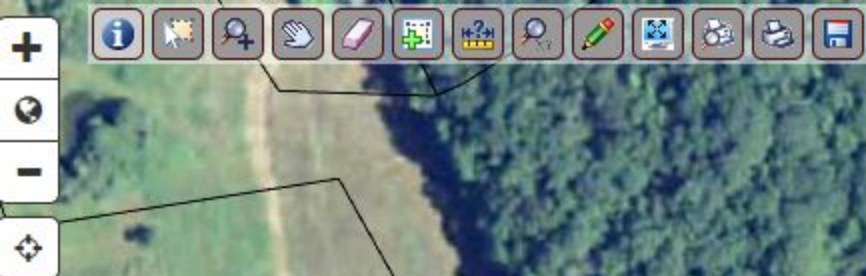
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DESCRIPTION ADJUSTABLE CLAMP PLATE TIE-BACK ASSEMBLY		CPD NO. CEK		DRAWN BY CEK	ENG. APPROVAL 8/30/2010	PART NO. PUCK	PAGE 1 OF 1
		CLASS 81	SUB 01	CHECKED BY BMC	DWG. NO. PUCK	DATE 9/1/2010	

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

Engineering Support Team:
 1-888-753-7446

ATTACHMENT 5



Parcel ID 00059300
Loc/Twp/Rng n/a
Property Address 35 LOWER COUNTY RD
District
Brief Tax Description

n/a
n/a
(Note: Not to be used on legal documents)

Alternate ID 109a64b4-ad90-49
Class Commercial
Acreage 4.78

Owner Address ROXBURY TOWN OF
29 NORTH ST
ROXBURY, CT 06783

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Summary

ParcelId	00059300
Location Address	35 LOWER COUNTY RD
Map-Block-Lot	27/029
Use Class/Description	Vacant
Assessing Neighborhood	C070
Survey	15/30
Acreage	4.78

Owner

Current Owner

ROXBURY TOWN OF
29 NORTH ST
ROXBURY, CT 06783

Current Appraised Value

Columns

Current Appraised Value	2020	2019	2018	2017
+ Building Value	\$0	\$0	\$0	\$0
+ OB/Misc	\$16,842	\$16,842	\$16,842	\$16,842
+ Land Value	\$289,001	\$289,001	\$289,001	\$289,001
= Total Appraised Value	\$305,843	\$305,843	\$305,843	\$305,843

Assessment History

Columns

Assessment History	2020	2019	2018	2017
+ Building Value	\$0	\$0	\$0	\$0
+ OB/Misc	\$11,790	\$11,790	\$11,790	\$11,790
+ Land Value	\$202,300	\$202,300	\$202,300	\$157,630
= Total Assessment	\$214,090	\$214,090	\$214,090	\$169,420

Land

Land					
Use	Class	Land Type	Zoning	Area	Value
Vacant	C	Cell Site	C	0.01	\$204,000
Vacant	C	Pub Util Excess	C	4.77	\$85,001

Out Buildings\Extra Features

Out Buildings\Extra Features

Description	Sub Description	Area	Year Built	Value
1 Story Barn	Barn	576	2002	\$12,165
Frame Shed	Shed	384	2002	\$4,677

Sales History

Columns

Sales History

Sale Date Sale PriceDeed Book/PageOwner

4/14/1992 \$00057/0607 ROXBURY TOWN OF

Permit Information

Columns

Permit Information

Permit ID	Issue Date	Type	Amount	Inspection Date	% Complete	Date Complete	Comments
BP14-60	12-05-2013		\$25,000	1/1/1900 12:00:00 AM	100	01-01-1900	REPLACE ANTENNAS/CELL TOWER
BP13-51	01-03-2013		\$25,001	1/1/1900 12:00:00 AM	100	01-01-1900	CELL TOWER MODIFICATION
EP09-35	10-24-2008	Electrical	\$890	1/1/1900 12:00:00 AM	100	10-01-2009	UNDER 100SF
BP09-36	10-17-2008	Outbuilding/Yard Item	\$10,500	1/1/1900 12:00:00 AM	100	10-01-2009	UNDER 100SF
7922	06-05-2001	Review	\$0	1/1/1900 12:00:00 AM	100	10-01-2002	shed
7280	12-16-1999	Review	\$140,000	1/1/1900 12:00:00 AM	100	10-01-2002	radio rooms/tower

No data available for the following modules: Buildings Data, Commercial Building, Sketch, Photos.

Contact Information

Information



Town of Roxbury, CT
29 North Street
P.O. Box 203
Roxbury, CT 06783
[Website opens in a new tab](#)
Assessor
[Linda Bertaccini](#)
(860) 354-2634

[Announcements](#)

Announcements

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ATTACHMENT 6



ROXBURY
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 ②	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here Postmark with Date of Receipt. neopost 10/15/2021 US POSTAGE \$002.99 ⁰  ZIP 06103 041L12203937							
Postmaster, per (name of receiving employee)											
USPS® Tracking Number Firm-specific Identifier						Address (Name, Street, City, State, and ZIP Code™)		Postage	Fee	Special Handling	Parcel Airlift
1.	Barbara Henry, First Selectman Town of Roxbury 29 North Street Roxbury, CT 06783										
2.	John Cody, Zoning Enforcement Officer Town of Roxbury 29 North Street Roxbury, CT 06783										
3.											
4.											
5.											
6.											