Robinson+Cole

KENNETH C. BALDWIN

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

Also admitted in Massachusetts
and New York

December 8, 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**
55 King Spring Road, Windsor Locks, Connecticut

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains an existing wireless telecommunications facility at the above-referenced property address (the "Property"). The facility consists of antennas and remote radio heads attached to the existing tower and associated equipment on the ground adjacent to the tower. Cellco refers to its facility as their Suffield South telecommunications facility. The tower was approved by the Siting Council ("Council") in May of 1984 (Docket No. 41). Cellco's use of the tower was approved by the Council in October of 2008 (EM-VER-165-081008). A copy of the Council's Docket No. 41 Decision and Order and EM-VER-165-081008 approval are included in Attachment 1.

Cellco now intends to modify its facility by removing twelve (12) existing antennas and installing three (3) new Samsung MT6407-77A antennas and six (6) NHH-65B-R2B antennas on Cellco's existing antenna mounts. Cellco also intends to install six (6) new remote radio heads ("RRHs") behind its antennas. A set of project plans showing Cellco's proposed facility modifications and specifications for Cellco's new antennas and RRHs are included in Attachment 2.

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

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

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

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

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

Sincerely,

Kenneth C. Baldwin

Enclosures
Copy to:

Paul M. Harrington, Windsor Locks First Selectman
Jennifer Rodriguez, Town Planner/Director of Planning and Development
S&D Sales LLC, Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 41

AN APPLICATION SUBMITTED BY CONTINENTAL CABLEVISION OF CONNECTICUT INC., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE ERECTION OF A COMMUNITY ANTENNA TELEVISION TOWER AND ASSOCIATED EQUIPMENT IN THE TOWN OF WINDSOR LOCKS.	:	CONNECTICUT SITING COUNCIL
	:	May 15, 1984

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut, revisions of 1958, revised to 1983, as amended, shall be issued to Continental Cablevision of Connecticut, Inc. for the erection of a community antenna television tower and associated equipment in the town of Windsor Locks, as specified in the Council's record on this matter, subject to the following conditions:

1. The tower shall be no taller or wider than proposed and in no event shall exceed 100', plus the height of the dish mounted on the tower;
2. A fence not lower than eight feet shall surround the facility site;
3. No associated equipment other than that referenced in finding 22 shall be added to the facility without prior notification to the Council;
4. The applicant shall comply with the reporting requirements of a development and management plan pursuant to section 16-50j-77 of the regulations of state agencies;
5. The facilities construction shall be conducted in accordance with all applicable federal, state, and municipal laws and regulations; and

6. This decision and order shall be void if all construction authorized is not completed by June 30, 1987.

We hereby direct, pursuant to section 16-50p(c) of the General Statutes, that a copy of the decision and order be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, and Manchester Journal Inquirer. The parties to this proceeding are:

Mr. Roger Worboys (Applicant)
Continental Cablevision of
Connecticut, Inc.
5 Shoham Road
East Windsor, Connecticut 06088

Leete, O'Neill & Kosto (its attorney)
Suite 600
60 Washington Street
Hartford, Connecticut 06106

R. Clifford Randall
First Selectman
Town Office Building
50 Church Street
P.O. Box L
Windsor Locks, Connecticut 06096

Doris McAusland (service waived)
Area 11 Cable Advisory Board
29 Marshall Road
Windsor Locks, Connecticut

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 15th day of May, 1984.

Council Members	Vote Cast
Gloria Dibble Pond Gloria Dibble Pond Chairperson	Yes
_____ Commissioner John Downey Designee: Commissioner Peter G. Boucher	Yes
_____ Commissioner Stanley Pac Designee: Christopher Cooper	Yes
_____ Owen L. Clark	Yes
_____ Fred J. Doocy	Yes
_____ Mortimer A. Gelston	Yes
_____ James G. Horsfall	Absent
_____ Janet Sitty	Yes
_____ Colin C. Tait	Absent

STATE OF CONNECTICUT)
: ss. New Britain, May 15, 1984
COUNTY OF HARTFORD)

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:

Christopher S. Wood, Executive Director
Connecticut Siting Council

October 21, 2008

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

RE: **EM-VER-165-081008** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 55 King Spring Road, Windsor Locks, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- The foundation shall be analyzed for adequacy; and

- A signed letter from a Professional Engineer duly licensed in the State of Connecticut is submitted to the Council to certify that the foundation is adequate to support the proposed loading, or in the alternative, that the foundation has been reinforced and a post-construction foundation rating of not more than 100 percent has been achieved.

The proposed modifications are to be implemented as specified here and in your notice dated October 8, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/MP/jb

c: The Honorable Steven N. Wawruck, Jr., First Selectman, Town of Windsor Locks

Alan Gannuscio, Planning & Zoning Chairman, Town of Windsor Locks
Cox Communications

ATTACHMENT 2

verizon WIRELESS

SUFFIELD S CT

55 KING SPRING ROAD
WINDSOR LOCKS, CT 06096

FUZE PROJECT ID: 16092584

PSLC: 468895

VICINITY MAP N.T.S.

ENGINEER

DEWBERRY ENGINEERS INC.
99 SUMMER ST.
SUITE 700
BOSTON, MA 02110

PHONE # (617) 531-0800

CONTACT: BENJAMIN REVETTE, PE

CONSTRUCTION

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

COORDINATES*:

LATITUDE: 41° 56' 48.01" N
LONGITUDE: 72° 39' 54.32" W
*PER RFDS

GROUND ELEVATION*:

143'±
*PER GOOGLE EARTH

PROJECT INFORMATION

PMI ACCESSED AT:	HTTPS://PMI.VZWSMART.COM
SMART TOOL VENDOR PROJECT NUMBER:	10101465
VZW LOCATION CODE (PSLC):	468895
FUZE NUMBER:	16092584

PMI AND REQUIREMENTS ALSO IMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED?	NO

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

1. REMOVE EXISTING ANTENNA MOUNTS AND INSTALL NEW ANTENNA MOUNTS IN ACCORDANCE WITH MOUNT ANALYSIS BY MASER CONSULTING.
2. REMOVE (12) EXISTING ANTENNAS.
3. REMOVE (3) RRHs FROM INSIDE THE EQUIPMENT SHELTER
4. INSTALL (6) NHH-65B-R2B ANTENNAS
5. INSTALL (3) MT6407-77A ANTENNAS
6. INSTALL (3) B5/B13 RRH-RF4440d-13A AND (3) B2/B66A RRH-RF4439d-25A RADIO UNITS.
7. REPLACE (2) EXISTING COAX CABLES WITH (1) PROPOSED 12X24 HYBRID CABLE
8. INSTALL (1) OVP-12
9. INSTALL NEW JUMPER CABLING BETWEEN OVPS AND ANTENNAS AS REQUIRED.

NOTE:

1. SCOPE OF WORK BASED ON ANTENNA REC FOR SUFFIELD S CT DATED 08/28/2021. VERIFY SCOPE OF WORK WITH FINAL RFDS PRIOR TO CONSTRUCTION.

SCOPE OF WORK

SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
C-1	SITE PLAN & ELEVATION
C-2	EXISTING & PROPOSED ANTENNA PLANS
C-3	CONSTRUCTION DETAILS
C-4	SMART TOOL SECTOR PLANS & ELEVATION DETAILS
C-5	FINAL EQUIPMENT CONFIGURATION

SHEET INDEX

verizon WIRELESS

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

SUFFIELD S CT

CONSTRUCTION DRAWINGS		
1	11/17/21	FOR SUBMITTAL
0	11/11/21	FOR SUBMITTAL
A	10/25/21	FOR REVIEW

Dewberry

Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

DRAWN BY:	TGC
REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50143836

468895

SITE ADDRESS

55 KING SPRING ROAD
WINDSOR LOCKS, CT
06096

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL CONSTRUCTION NOTES :

1. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND COMPLY WITH VERIZON WIRELESS SPECIFICATIONS.
2. CONTRACTOR SHALL CONTACT "DIG SAFE" (888-344-7233) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
4. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
5. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
6. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
7. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
9. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
11. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
12. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
13. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
14. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR WILL NOTIFY ENGINEER, VERIZON WIRELESS PROJECT CONSTRUCTION MANAGER, AND LANDLORD IMMEDIATELY.
15. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
16. ALL ROOF WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED ROOFING CONTRACTOR IN COORDINATION WITH ANY CONTRACTOR WARRANTING THE ROOF TO ENSURE THAT THE WARRANTY IS MAINTAINED.
17. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
18. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
19. CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH THREE AS-BUILT SETS OF DRAWINGS UPON COMPLETION OF WORK.
20. ANTENNAS AND CABLES ARE TYPICALLY PROVIDED BY VERIZON WIRELESS. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED BY VERIZON WIRELESS. ALL ITEMS NOT PROVIDED BY VERIZON WIRELESS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED BY VERIZON WIRELESS.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR WILL COORDINATE WITH VERIZON WIRELESS PROJECT MANAGER TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY VERIZON WIRELESS. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
22. GENERAL CONTRACTOR SHALL HAVE A LICENSED HVAC CONTRACTOR START THE HVAC UNITS, SYNCHRONIZE THE THERMOSTATS, ADJUST ALL SETTINGS ON EACH UNIT ACCORDING TO VERIZON WIRELESS CONSTRUCTION MANAGER'S SPECIFICATIONS, AND THOROUGHLY TEST AND BALANCE EACH UNIT TO ENSURE PROPER OPERATION PRIOR TO TURNING THE SITE OVER TO OWNER.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. UNLESS OTHERWISE NOTED VERIZON WIRELESS SHALL PROVIDE ALL REQUIRED RF MATERIAL FOR CONTRACTOR TO INSTALL, INCLUDING ANTENNAS, TMA'S, BIAS-T'S, COMBINERS, PDU, DC BLOCKS, SURGE ARRESTORS, GPS ANTENNA, GPS SURGE ARRESTOR, COAXIAL CABLE.
26. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE PROVIDED BY VERIZON WIRELESS FOR INSTALLATION BY CONTRACTOR.
27. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
28. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
29. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
30. CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO CONSTRUCTION START, MORE SPECIFICALLY BEFORE: SEALING ANY FLOOR, WALL OR ROOF PENETRATION, FINAL UTILITY CONNECTIONS, POURING CONCRETE, BACKFILLING UTILITY TRENCHES AND STRUCTURAL POST OR MOUNTING CONNECTIONS, FOR ENGINEERING REVIEW AND INSPECTION.
31. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED O FIRE CODE APPROVED MATERIALS.
32. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND LANDLORD.
33. ALL DISRUPTIVE WORK AND WORK WITHIN TENANT SPACES TO BE COORDINATED WITH BUILDING REPRESENTATIVE.

CODE SPECIFICATIONS:

1. ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

   2018 CONNECTICUT STATE BUILDING CODE WITH THE FOLLOWING APPLICABLE CODES:
   2015 INTERNATIONAL RESIDENTIAL CODE (IRC)
   2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
   2015 INTERNATIONAL BUILDING CODE (IBC)
   2015 INTERNATIONAL MECHANICAL CODE (IMC)
   2017 NATIONAL ELECTRICAL CODE (NEC) (NFPA 70)
   2015 INTERNATIONAL PLUMBING CODE (IPC)
   2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

   IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.
2. ALL STRUCTURAL WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, 13TH EDITION (AISC 13TH ED.)
3. ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI 301) SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 318) AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
4. ALL REINFORCING STEEL WORK TO BE DONE IN ACCORDANCE WITH THE (ACI 315) MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

GROUNDING NOTES:

1. GROUNDING SHALL COMPLY WITH NEC ART. 250.
2. GROUNDING CONDUCTORS SHALL BE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR INDOOR USE.
3. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
4. ROUTE GROUNDING CONNECTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NOT BE BENT AT RIGHT ANGLE. ALWAYS MAKE 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
5. CONNECTIONS TO GROUNDING BAR SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
6. TEST COMPLETED GROUNDING SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION. GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.
7. GROUNDING CONDUCTORS BETWEEN MGB AND WATERMAIN SHALL BE #2/0. BONDING JUMPERS FROM METALLIC SURFACES SHALL BE #2 MINIMUM. ALL GROUND CONDUCTORS AND BONDING JUMPERS SHALL BE SOFT DRAWN ANNEALED, TINNED, BARE STRANDED COPPER WIRE. COAXIAL CABLES SHALL BE GROUNDED AT A MINIMUM OF TWO LOCATIONS USING VERIZON PROVIDED GROUNDING KITS. EXACT LOCATIONS SHALL BE FINALIZED IN THE FIELD BY THE CONSTRUCTION MANAGER.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:

ASTM A-992, GRADE 50	ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE.
ASTM A-36	ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
ASTM A-500, GRADE B	HSS SECTION (SQUARE, RECTANGULAR, ROUND)
ASTM A-325, TYPE SC OR N	ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS.
F1554, GRADE 36	ALL ANCHORS BOLTS, UNLESS NOTED OTHERWISE.
ASTM A-53, GRADE B	STEEL PIPE

3. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION. WHERE WELD LENGTH IS NOT INDICATED, USE FULL LENGTH WELD. AT THE COMPLETION OF ALL WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
4. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA.) SUPPLIED WITH A NUT AND WASHER UNDER TURNED END AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
7. USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED METALS.
8. ALL EXISTING BEAM AND COLUMN DIMENSIONS SHALL BE FIELD VERIFY BY CONTRACTOR PRIOR TO FABRICATION. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN SHALL BE REPORTED TO DEWBERRY ENGINEER IMMEDIATELY.
9. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
10. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A123/A123M-00 HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED. REPAIR DAMAGED GALVANIZED COATINGS ON GALVANIZED ITEMS WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS, PRIOR TO COMPLETION OF WORK. TOUCHUP ALL DAMAGED GALVANIZED STEEL WITH APPROVED COLD ZINC, "GALVANOX", "DRY GALV", "ZINC-IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
11. ALL WELDED COMPONENTS TO BE SHOP WELDED PRIOR TO INSTALLATION. NO WELDING ACTIVITIES IS PERMITTED DURING INSTALLATION OF PROPOSED EQUIPMENTS AND/OR HARDWARE ON SITE.

verizon WIRELESS

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

SUFFIELD S CT

CONSTRUCTION DRAWINGS		
1	11/17/21	FOR SUBMITTAL
0	11/11/21	FOR SUBMITTAL
A	10/25/21	FOR REVIEW

Dewberry®
Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

DRAWN BY:	TGC
REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50143836

468895

SITE ADDRESS

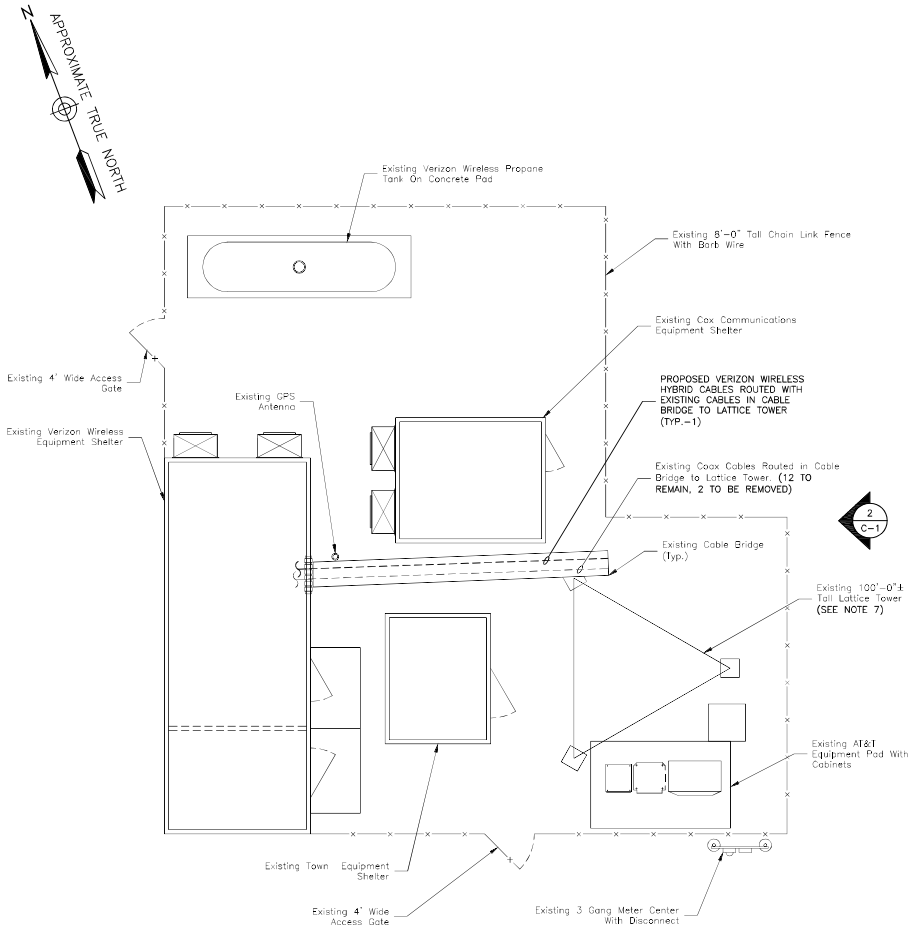
55 KING SPRING ROAD
WINDSOR LOCKS, CT
06096

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

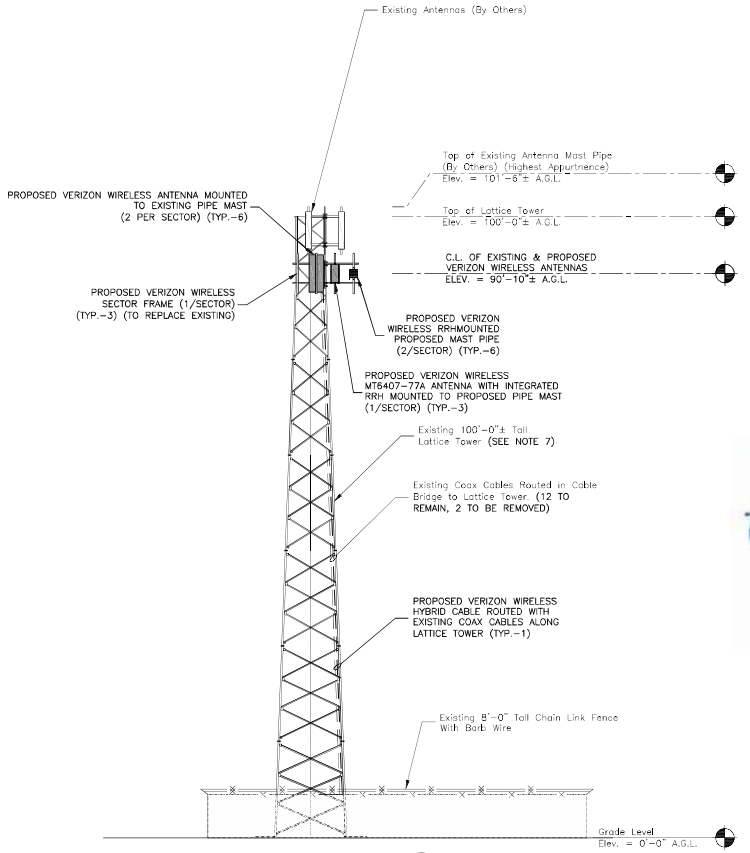
GN-1



SITE PLAN 1

SCALE: 1"=10' FOR 11"x17"
1"=5' FOR 22"x34"

0' 5' 10'



SITE PLAN 2

SCALE: 1"=20' FOR 11"x17"
1"=10' FOR 22"x34"

0' 10' 20'

NOTES:

1. NORTH AND ELEVATION SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. SITE PLAN & ELEVATION BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 09/20/21.
4. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MOUNT ANALYSIS BY MASER CONSULTING CONNECTICUT DATED 09/14/21.
5. REUSE EXISTING ANTENNA MOUNTS. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED.
6. A.G.L. = ABOVE GROUND LEVEL
7. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS BY ALL-POINTS TECHNOLOGY CORPORATION DATED 10/26/21.

verizon WIRELESS

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

SUFFIELD S CT

CONSTRUCTION DRAWINGS		
1	11/17/21	FOR SUBMITTAL
0	11/11/21	FOR SUBMITTAL
A	10/25/21	FOR REVIEW

Dewberry

Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

DRAWN BY:	TGC
REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50143836

468895

SITE ADDRESS

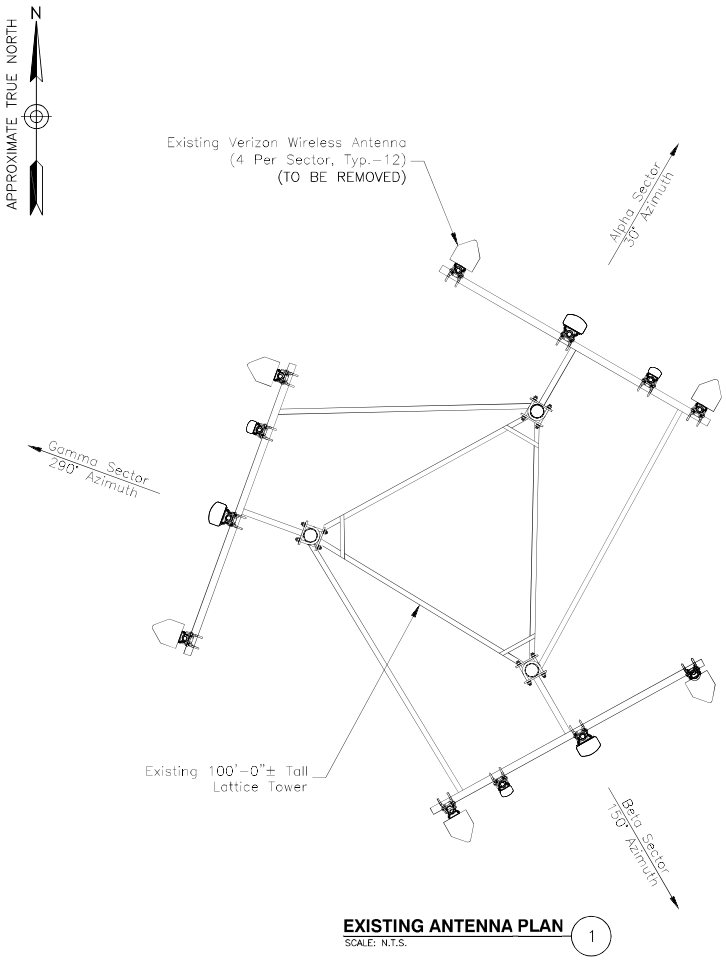
55 KING SPRING ROAD
WINDSOR LOCKS, CT
06096

SHEET TITLE

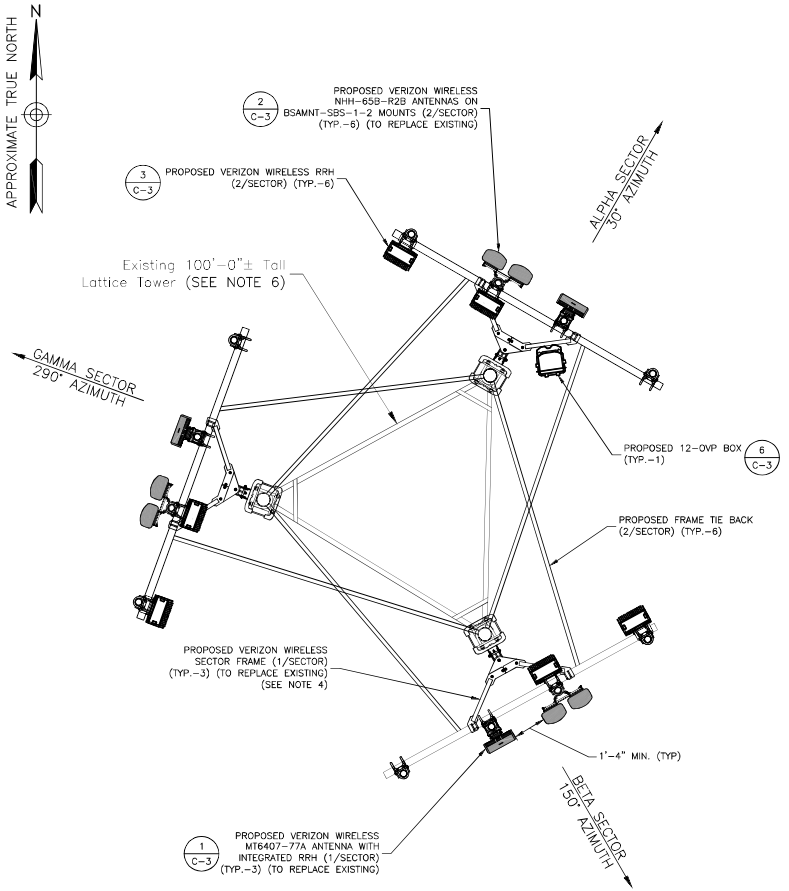
SITE PLAN &
ELEVATION

SHEET NUMBER

C-1



EXISTING ANTENNA PLAN 1
SCALE: N.T.S.



PROPOSED ANTENNA PLAN 1
SCALE: N.T.S.

NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. SITE PLAN & ELEVATION BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 09/20/21.
4. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MOUNT ANALYSIS BY MASER CONSULTING CONNECTICUT DATED 09/14/21.
5. REUSE EXISTING ANTENNA MOUNTS. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED.
6. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS BY ALL-POINTS TECHNOLOGY CORPORATION DATED 10/26/21.

verizon WIRELESS

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

SUFFIELD S CT

CONSTRUCTION DRAWINGS		
1	11/17/21	FOR SUBMITTAL
0	11/11/21	FOR SUBMITTAL
A	10/25/21	FOR REVIEW

Dewberry

Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

DRAWN BY:	TGC
REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50143836

468895

SITE ADDRESS

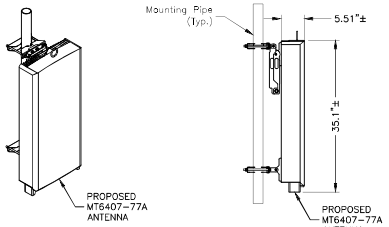
55 KING SPRING ROAD
WINDSOR LOCKS, CT
06096

SHEET TITLE

EXISTING & PROPOSED
ANTENNA PLANS

SHEET NUMBER

C-2

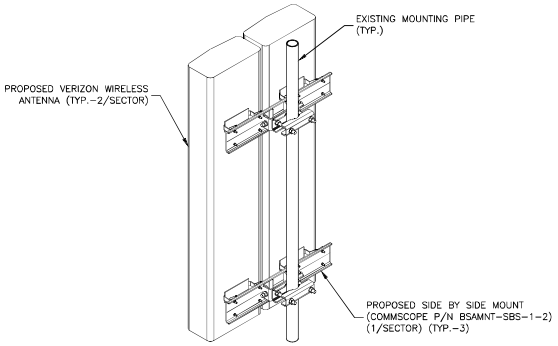


MODEL:	MT6407-77A
DIMENSIONS:	35.1"H X 16.1"W X 5.5"D (NOT TO EXCEED)
WEIGHT:	87.1 LBS (NOT TO EXCEED)

NOTES:

1. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. USE APPROPRIATE MOUNTING HARDWARE FOR CONSTRUCTION TYPE.

MT6407-77A PIPE MOUNTED ANTENNA DETAIL 1
SCALE: N.T.S.



MANUFACTURER:	COMMSCOPE
PART NUMBER:	NHH-65B-R2B
DIMENSIONS:	72.0"H X 11.9"W X 7.1"D
WEIGHT:	43.7 LBS

NHH-65B-R2B SIDE BY SIDE ANTENNA DETAIL 2
SCALE: N.T.S.

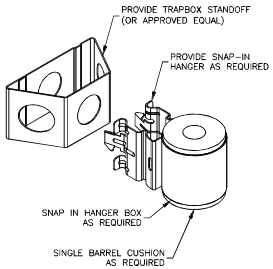
PROPOSED LTE 700/850	
MANUFACTURER:	SAMSUNG
MODEL:	700/850MHZ MACRO RADIO RF4440d-13A
DIMENSIONS:	14.9"H X 14.9"W X 9.0"D
WEIGHT:	70.3 LBS

PROPOSED LTE AWS/PCS	
MANUFACTURER:	SAMSUNG
MODEL:	AWS/PCS MACRO RADIO RF4439D-25A
DIMENSIONS:	14.9"H X 14.9"W X 10.0"D
WEIGHT:	74.7 LBS

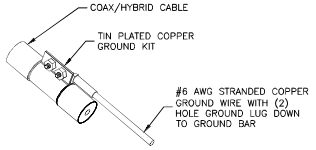
NOTE:

1. CONTRACTOR TO VERIFY WITH CONSTRUCTION MANAGER FOR FINAL MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.

REMOTE UNIT DETAILS 3
SCALE: N.T.S.



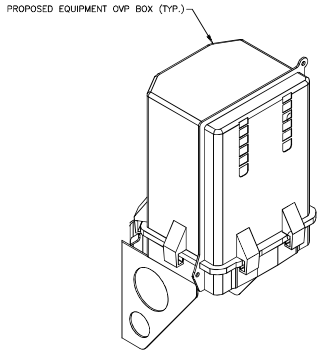
JUMPER MOUNT 4
SCALE: N.T.S.



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND. ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TIN PLATED COPPER WITH TWO-HOLE LUG, SIZE PER COAX DIAMETER.
3. WEATHER SEAL GROUND KIT PER CARRIER REQUIREMENTS.
4. COAX CABLE GROUND KIT LOCATION & QUANTITY SHALL BE PER CARRIER SPECIFICATIONS & STANDARDS.

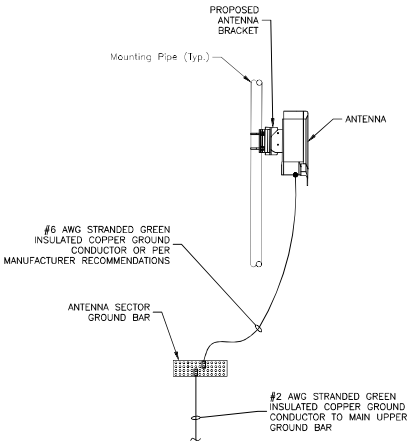
COAX/HYBRID GROUNDING DETAIL 5
SCALE: N.T.S.



NOTE:

1. JUMPERS & CABLES NOT SHOWN FOR CLARITY.

OVP DETAIL 6
SCALE: N.T.S.



NOTES:

1. VERIFY EXISTING GROUNDING SYSTEM IS INSTALLED PER VERIZON WIRELESS STANDARDS.
2. BOND NEW EQUIPMENT INTO EXISTING GROUND SYSTEM IN ACCORDANCE WITH VERIZON WIRELESS STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

TYPICAL ANTENNA GROUNDING DETAIL 7
SCALE: N.T.S

verizon WIRELESS

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

SUFFIELD S CT

CONSTRUCTION DRAWINGS		
1	11/17/21	FOR SUBMITTAL
0	11/11/21	FOR SUBMITTAL
A	10/25/21	FOR REVIEW

Dewberry®

Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

DRAWN BY:	TGC
REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50143836

468895

SITE ADDRESS

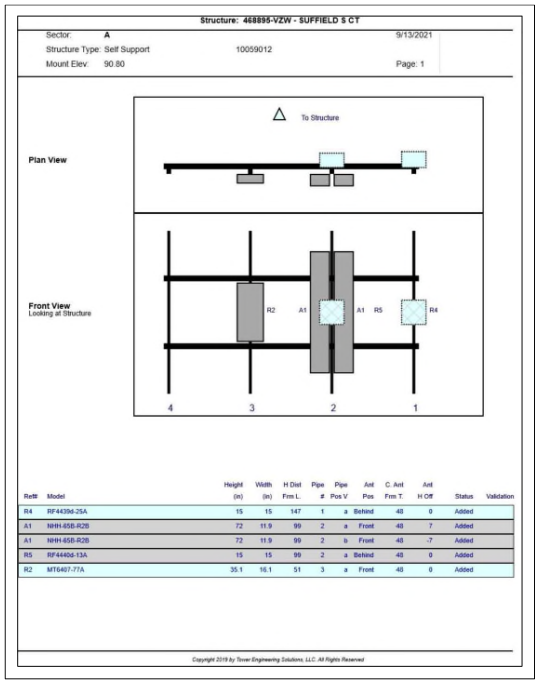
55 KING SPRING ROAD
WINDSOR LOCKS, CT
06096

SHEET TITLE

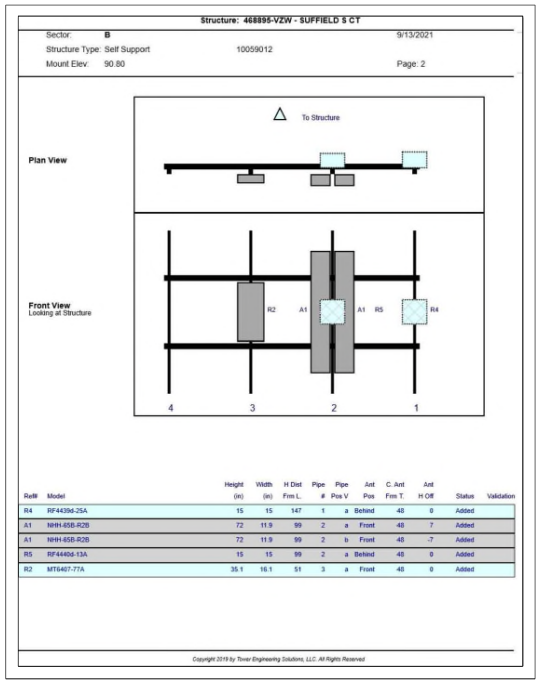
CONSTRUCTION DETAILS

SHEET NUMBER

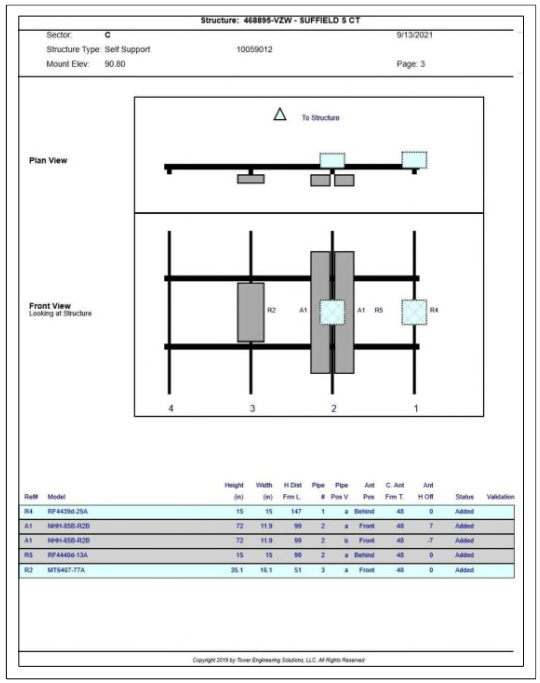
C-3



ALPHA SECTOR (1)
SCALE: N.T.S.



BETA SECTOR (2)
SCALE: N.T.S.



GAMMA SECTOR (3)
SCALE: N.T.S.

NOTE:

1. SECTOR PLANS AND ELEVATIONS TAKEN FROM MOUNT ANALYSIS: SMART TOOL# 10101465, MASER PROJECT # 21777790A, FUZE # 16092584 BY MASER CONSULTING P.A. DATED 09/14/2021.

verizon WIRELESS
VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

SUFFIELD S CT

CONSTRUCTION DRAWINGS		
1	11/17/21	FOR SUBMITTAL
0	11/11/21	FOR SUBMITTAL
A	10/25/21	FOR REVIEW

Dewberry
Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

DRAWN BY:	TGC
REVIEWED BY:	CDH
CHECKED BY:	BBR
PROJECT NUMBER:	50121487
JOB NUMBER:	50143836

468895

SITE ADDRESS

55 KING SPRING ROAD
WINDSOR LOCKS, CT
06096

SHEET TITLE

SMART TOOL SECTOR PLANS & ELEVATION DETAILS

SHEET NUMBER

C-4

FINAL EQUIPMENT CONFIGURATION

SECTOR	POSITION	TECHNOLOGY	ANTENNA MODEL	VENDOR	RRH (QTY./MODEL)	CENTERLINE	AZIMUTH	OVP	HYBRID CABLE TYPE	FEED LINE LENGTH*
ALPHA	A1	–	–	–	(P) B2/B66A RRH RF4439d-25A	–	–°	(1) (P) OVP-12 BOX	(1) (P) 12X24 HYBRID CABLE	140'±
	A2(A)	LTE 700/850/1900/AWS	(P) NHH-65B-R2B	COMMSCOPE	(P) B5/B13 RRH RF4440d-13A	90'-10"±	30°			
	A2(B)	LTE 700/850/1900/AWS	(P) NHH-65B-R2B	COMMSCOPE		90'-10"±	30°			
	A3	5G	(P) MT6407-77A	SAMSUNG	–	90'-10"±	30°			
	A4	–	–	–	–	–	–			
BETA	B1	–	–	–	(P) B2/B66A RRH RF4439d-25A	–	–°			
	B2(A)	LTE 700/850/1900/AWS	(P) NHH-65B-R2B	COMMSCOPE	(P) B5/B13 RRH RF4440d-13A	90'-10"±	150°			
	B2(B)	LTE 700/850/1900/AWS	(P) NHH-65B-R2B	COMMSCOPE		90'-10"±	150°			
	B3	5G	(P) MT6407-77A	SAMSUNG	–	90'-10"±	150°			
	B4	–	–	–	–	–	–			
GAMMA	G1	–	–	–	(P) B2/B66A RRH RF4439d-25A	–	–°			
	G2(A)	LTE 700/850/1900/AWS	(P) NHH-65B-R2B	COMMSCOPE	(P) B5/B13 RRH RF4440d-13A	90'-10"±	290°			
	G2(B)	LTE 700/850/1900/AWS	(P) NHH-65B-R2B	COMMSCOPE		90'-10"±	290°			
	G3	5G	(P) MT6407-77A	SAMSUNG	–	90'-10"±	290°			
	G4	–	–	–	–	–	–			

*CONTRACTOR TO FIELD VERIFY HYBRID CABLE LENGTHS PRIOR TO CONSTRUCTION. LENGTH IS ESTIMATED FROM THE BASE EQUIPMENT OVP TO SECTOR OVP.

(E) = Existing
(P) = PROPOSED

FINAL EQUIPMENT CONFIGURATION (1)
SCALE: N.T.S.

verizon WIRELESS

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581-3956

SUFFIELD S CT

CONSTRUCTION DRAWINGS		
1	11/17/21	FOR SUBMITTAL
0	11/11/21	FOR SUBMITTAL
A	10/25/21	FOR REVIEW

Dewberry®
Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

DRAWN BY: TGC
REVIEWED BY: CDH
CHECKED BY: BBR
PROJECT NUMBER: 50121487
JOB NUMBER: 50143836

468895

SITE ADDRESS

55 KING SPRING ROAD
WINDSOR LOCKS, CT
06096

SHEET TITLE

FINAL EQUIPMENT CONFIGURATION

SHEET NUMBER

C-5

SAMSUNG

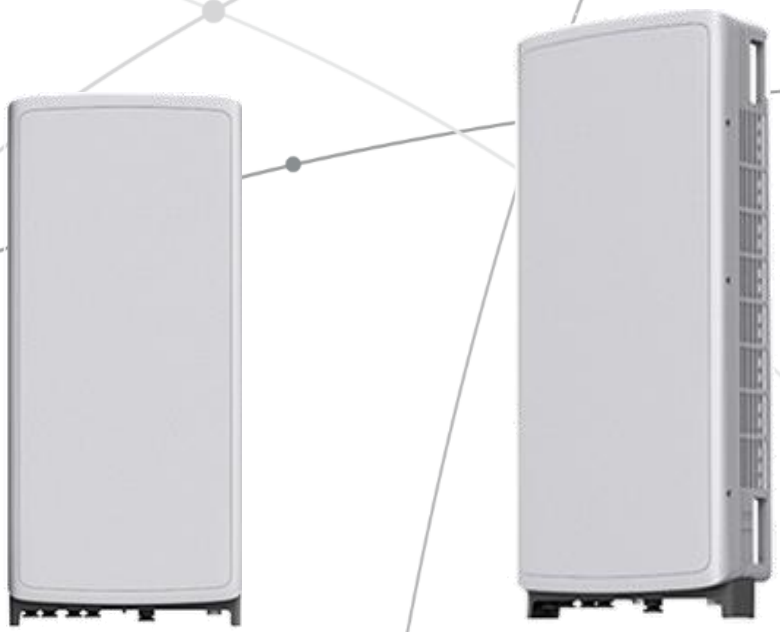
SAMSUNG

C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A

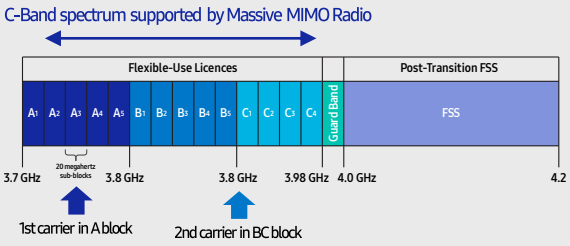


Points of Differentiation

Wide Bandwidth

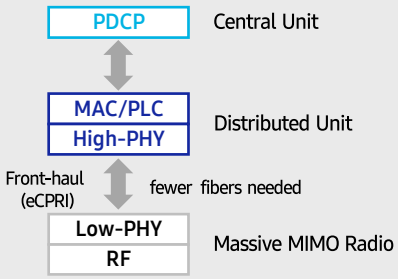
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

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



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.
It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



Enhanced Performance

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

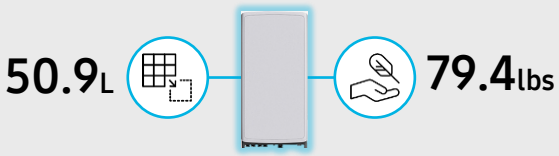
This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

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

Well Matched Design

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

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



Technical Specifications

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

SAMSUNG

About Samsung Electronics Co., Ltd.

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

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

SAMSUNG

700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

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

Model Code	RF4440d-13A

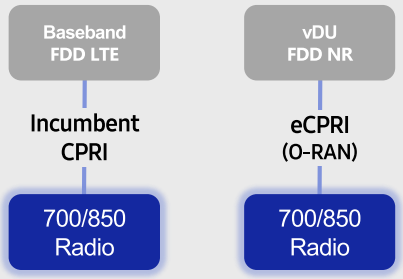
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

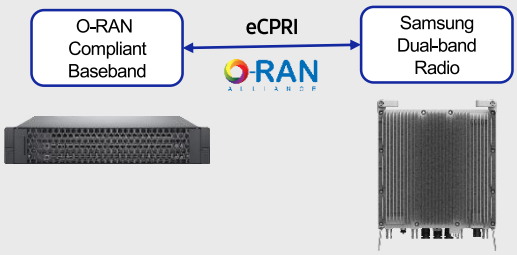
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

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

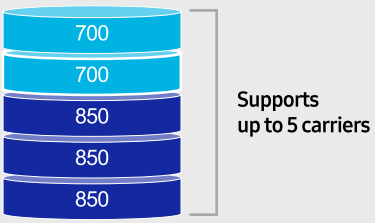
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

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

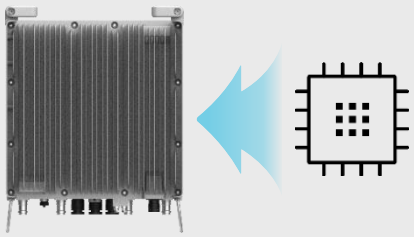
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



Secured Integrity

Access to sensitive data is allowed only to authorized software.

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



Technical Specifications

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

SAMSUNG

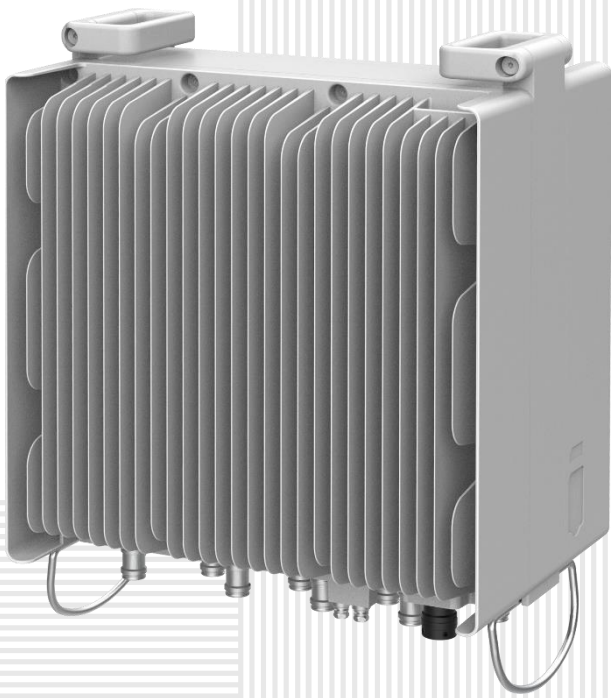
AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

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

57196

Model Code	RF4439d-25A



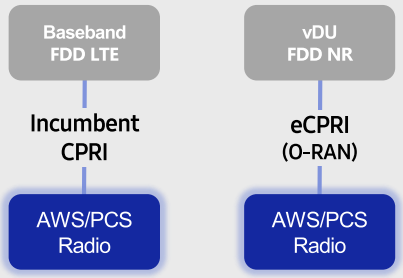
Homepage
samsungnetworks.com

Youtube
www.youtube.com/samsung5g

Points of Differentiation

Continuous Migration

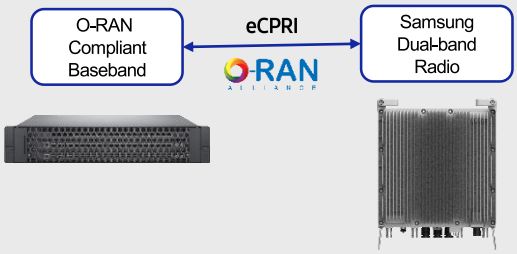
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



O-RAN Compliant

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

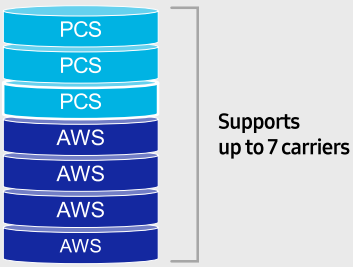
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



Optimum Spectrum Utilization

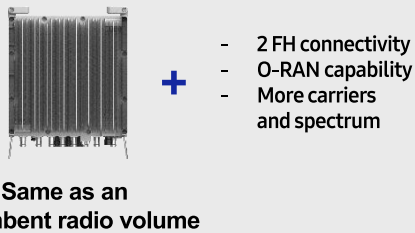
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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



Brand New Features in a Compact Size

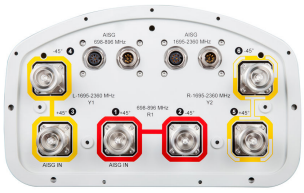
Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



Technical Specifications

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

NHH-65B-R2B



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

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

General Specifications

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

Remote Electrical Tilt (RET) Information, General

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

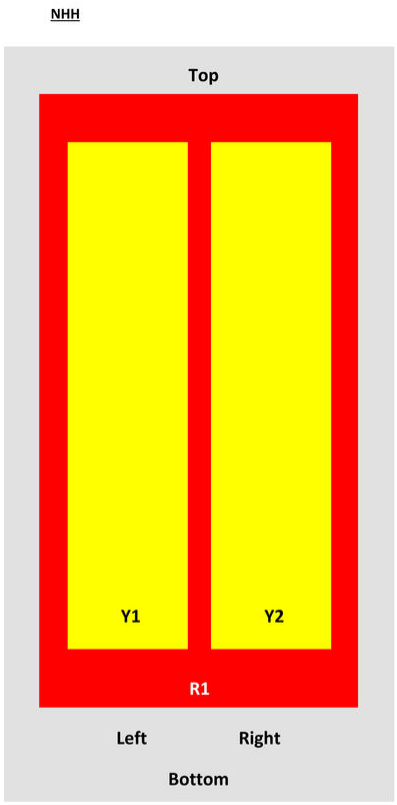
Dimensions

Width	301 mm | 11.85 in
Length	1828 mm | 71.969 in

NHH-65B-R2B

Depth	180 mm | 7.087 in

Array Layout



Array	Freq (MHz)	Conns	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANxxxxxxxxxxxxxxx1
Y1	1695-2360	3-4	2	ANxxxxxxxxxxxxxxx2
Y2	1695-2360	5-6		

View from the front of the antenna

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

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2360 MHz | 698 – 896 MHz
Polarization	±45°
Total Input Power, maximum	900 W @ 50 °C

Remote Electrical Tilt (RET) Information, Electrical

Protocol	3GPP/AISG 2.0 (Single RET)
Power Consumption, idle state, maximum	2 W

NHH-65B-R2B

Power Consumption, normal conditions, maximum	13 W
Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1 | Port 3
Internal RET	High band (1) | Low band (1)

Electrical Specifications

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

Electrical Specifications, BASTA

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

NHH-65B-R2B

CPR at Sector, dB	10	7	16	13	11	4

Mechanical Specifications

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

Packaging and Weights

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

Regulatory Compliance/Certifications

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

Included Products

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

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance

ATTACHMENT 3

	General	Power	Density					
Site Name: Suffield S (Windsor Locks)								
Tower Height: Verizon @ 90.8ft								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**FREQ.**	**CALC. POWER DENS**	**MAX. PERMISS.EXP.**	**FRACTION MPE**	**Total**
*Arch	1	100	41	28000	0.029356747	1	0.29%	
*Arch	1	500	85	931.86	0.0288111	0.62124	0.46%	
*AT&T-UMTS	2	419	100	850	0.034106122	0.566666667	0.60%	
*AT&T-GSM	2	419	100	850	0.034106122	0.566666667	0.60%	
*AT&T-PCS-UMTS	2	817	100	1900	0.066502867	1	0.67%	
*AT&T-PCS-GSM	2	817	100	1900	0.066502867	1	0.67%	
*AT&T-LTE	2	1615	100	700	0.131459156	0.466666667	2.82%	
*AT&T-PCS-LTE	2	1942	100	1900	0.158076582	1	1.58%	
VZW 700	**4**	**689**	**90.8**	**751**	**0.0120**	**0.5007**	**2.40%**	
VZW Cellular	**4**	**700**	**90.8**	**869**	**0.0122**	**0.5793**	**2.11%**	
VZW PCS	**4**	**1500**	**90.8**	**1980**	**0.0262**	**1.0000**	**2.62%**	
VZW AWS	**4**	**1672**	**90.8**	**2125**	**0.0292**	**1.0000**	**2.92%**	
VZW CBAND	**4**	**6531**	**90.8**	**3730**	**0.1139**	**1.0000**	**11.39%**	
								29.13%
* Source: Siting Council								

ATTACHMENT 4

CONDITION ASSESSMENT & STRUCTURAL ANALYSIS REPORT
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT

Prepared for
Verizon Wireless

Verizon Site Ref:
468895; Suffield S CT

Site Address: 55 King Spring Road, Windsor Locks, Connecticut
APT Filing No. MA141_12940

October 26, 2021
Rev.1: November 16, 2021

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

CONDITION ASSESSMENT & STRUCTURAL ANALYSIS REPORT
100-ft SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
prepared for
Verizon Wireless

EXECUTIVE SUMMARY:

All-Points Technology Corporation, P.C. (APT) performed a condition assessment and structural analysis of this 100-foot self-supporting lattice tower structure to support a proposed Verizon equipment modification.

The proposed Verizon antenna and appurtenance modification consists of the proposed replacement of twelve (12) existing panel antennas, and three (3) Remote Radio Heads (RRHs) with six (6) new panel antennas, three (3) new Samsung MT6407-77A antennas, six (6) new Samsung Dual-Band RRHs, and one (1) Raycap 12OVP. The proposed Verizon equipment shall be fed by ten (10) existing coaxial cables and one (1) new 12x24 Low-Inductance (LI) hybrid feed-line.

The equipment shall be installed on three (3) new SitePro1 VFA12-HD sector mounts as specified in the table below. The new mounts should be installed prior to the installation of the new Verizon equipment, as referenced below.

Our analysis indicates that the subject tower structure meets the requirements of the 2015 International Building Code (IBC), as amended by the 2018 Connecticut State Building Code, and the ANSI/TIA-222-H standard with the existing and proposed equipment loading. APT recommends installing a safety climbing cable, as one is not currently in place.

Evaluation of the base foundation was performed by comparing reactions calculated under the proposed loads with reactions indicated within a Centek Engineering Structural Analysis Report provided to APT. Reactions imposed by the proposed installation are less than the published reactions, indicating that the foundation is adequately sized.

INTRODUCTION:

A condition assessment and structural analysis of this communications tower was performed by APT for Verizon Wireless. The tower is located at 55 King Spring Road in Windsor Locks, Connecticut.

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

- Field notes and photos from APT's site visit on 10/07/21. APT climbed the structure in its entirety to record information regarding physical and dimensional properties of the structure and its appurtenances.
- Structural Analysis Report prepared by Centek Engineering (Project No. 16001.33) dated 9/9/16.
- Structural Analysis Report prepared by Maser Consulting Connecticut (Project No. 16963018A) dated 12/2/16.
- RFDS detailing Verizon's proposed equipment changes, latest version.
- New/Replacement Antenna Mount Analysis Report and PMI Requirements prepared by Maser Consulting Connecticut, (Project No. 21777790A) dated 09/14/21.

- Construction Drawings prepared by Dewberry Engineers, Inc. (Project No. 50121487), marked Rev. A dated 10/25/21.

The structure is a 100-foot, galvanized steel self-supporting lattice tower structure manufactured by ROHN. The tower is comprised of galvanized pipe legs with angle steel bracing arranged in an X-brace configuration.

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

Carrier	Antenna and Appurtenance Make/Model	Elevation	Status	Mount Type	Coax/Feed-Line
AT&T	(3) Kathrein 800-10121 & (6) KMW AM-X-CD-16-65 panel antennas, (6) TMAs, (6) RETs, (3) Ericsson RRUS-11 RRHs, (3) Ericsson RRUS-12 RRHs, (1) Raycap "squid" D-box	97'	ETR	(3) 5' T-arms	(6) 7/8", (1) 3/8", (1) 2" conduit
Verizon Wireless	**(6) Commscope NHH-65B-R2B panel antennas** & **(3) Samsung MT6407-77A antennas,** **(3) Samsung RF4439d-25A RRHs,** **(3) Samsung RF4440d-13A RRHs,** **(1) Raycap RVZDC-6627-PF-48 12 OVP**	90.8'	**P**	**(3) 12' sector mounts (SitePro1 VFA12-HD)**	(10) 1-5/8", **12x24 LI hybrid**

Notes:

1. ETR = Existing to Remain; ERL= Existing to be Relocated; P = Proposed.

CONDITION ASSESSMENT:

- General Observations: The tower, a galvanized steel structure, appeared to be in sound condition. No signs of movement or overstress of the tower were observed. APT observed one EW90 cable inactive at 17'.

- Climbing Facilities: A safety cable is not in place on the tower. APT recommends a safety cable be installed.

- Leg Members: Leg members consist of A572 grade 50 pipes. Leg members and connections were visually observed to the maximum extent practicable. No damaged legs were observed and no loose or missing bolts were noted.

- Bracing: Bracing members consist of A36 angle braces. Bracing and connections were visually observed to the maximum extent practicable. No damaged bracing was observed and no loose or missing bolts were noted.

- Splice Connections: Connections were checked by hand for tightness at each splice location. No loose or missing splice bolts were observed.

- Appurtenance, Cable, and Ground Connections: Antenna mounting hardware appeared to be in good condition, with corrosion resistant hardware and galvanized members prevalent.

- Base Foundation: Visible concrete appeared to be in sound condition.

STRUCTURAL ANALYSIS:

Methodology:

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

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

- Load Case 1: 116 mph (3-second gust), Ultimate Wind Speed 0" ice
- Load Case 2: 50mph (3-second gust) w/ 1.5" ice thickness required
- Load Case 3: 60mph (3-second gust) (Service Load)
- Structure Class: II
- Exposure Category: C
- Topographic Category: 1

Analysis Results:

Analysis of the tower was conducted in accordance with the criteria outlined herein with antenna changes as previously described.

The following table summarizes the results of the analysis based on stresses of individual leg and bracing members:

Elevation	Legs [1]	Bracing [2]
80'-100'	40%	53%
60'-80'	54%	34% [3]
40'-60'	59%	36% [3]
20'-40'	76%	41% [3]
0'-20'	71%	55%

Notes:
1. Based on ASTM A572 Gr. 50 pipe legs. Leg diameter and thickness vary.
2. Based on ASTM A36 angle bracing. Bracing sizes vary.
3. Member connection controls.

Anchor Bolts:

Anchor bolts were evaluated under the proposed loading. All anchor bolts were found to be adequately sized to support the proposed equipment.

Bracing and Splice Bolts:

Connection bolts were evaluated under the proposed loading. All bolts were found to be adequately sized to support the proposed loads.

Base Foundation:

Evaluation of the base foundation was performed by comparing reactions calculated under the proposed loads with reactions indicated within the aforementioned Centek Engineering Structural Analysis Report. Reactions imposed by the proposed installation are less than the published reactions, indicating that the foundation is adequately sized. It should be noted that the foundation capacity is governed by the overturning moment capacity.

Factored base reactions imposed with the additional antennas were calculated as follows:

Load Effect	Centek Reactions [1]	Calculated Reactions
Compression	21.60 k	15.5 k
Shear	14.85 k	10.9 k
Overturning Moment	1,413 ft-kips	1,082 ft-kips

[1] Original TIA-222-F design reactions multiplied by factor of 1.35 per TIA-222-G paragraph 15.5.1

CONCLUSIONS AND RECOMMENDATIONS:

In conclusion, our analysis indicates that the 100-foot self-supporting tower structure located at 55 King Spring Road in Windsor Locks, Connecticut meets the requirements of the 2015 International Building Code (IBC), as amended by the 2018 Connecticut State Building Code, and the ANSI/TIA-222-H standard with Verizon's proposed equipment changes. **APT recommends installing a safety climbing cable, as one is not currently in place.**

Evaluation of the base foundation was performed by comparing reactions calculated under the proposed loads with reactions indicated within a Centek Engineering Structural Analysis Report provided to APT. Reactions imposed by the proposed installation are less than the published reactions, indicating that the foundation is adequately sized.

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

Robert E. Adair, P.E.
Principal

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

Michael T. Larson, P.E.
Project Engineer

LIMITATIONS:

This report is based on the following:

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

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

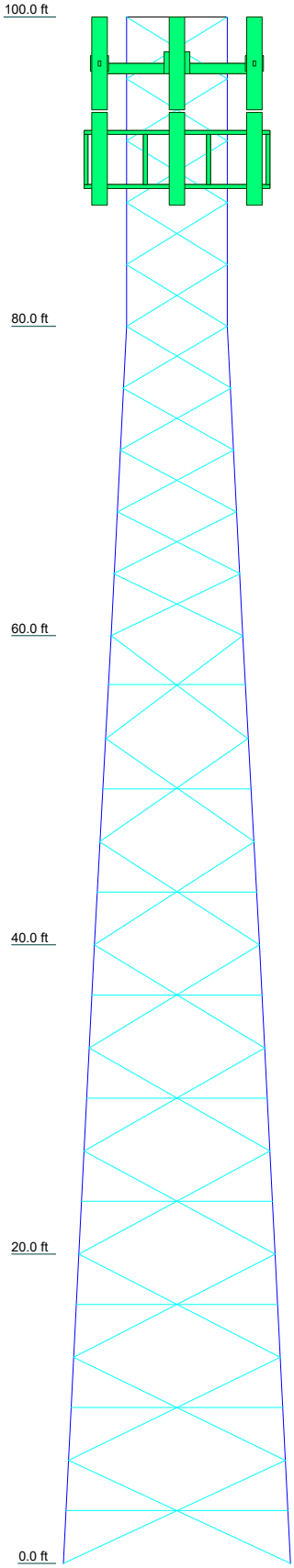
1. Replacing or strengthening bracing members.
2. Reinforcing vertical members in any manner.
3. Adding or relocating torque arms or guys.
4. Installing antenna mounting gates or side arms or waveguide cables.
5. Extending tower.

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

Appendix A

Tower Schematic

Section	T5	T4	T3	T2	T1
Legs	ROHN 3 X-STR	ROHN 3 STD	ROHN 2.5 X-STR	ROHN 2.5 STD	ROHN 2 STD
Leg Grade	A572-50				
Diagonals	L2 1/2x2 1/2x3/16	L3x3x1/4	L2x2x1/8	L1 1/2x1 1/2x1/8	
Diagonal Grade	A36				
Top Girts	N.A.			L2x2x1/8	
Sec. Horizontals	L2x2x3/16		N.A.		
Face Width (ft)	12.6536	10.6094	8.5651	6.52083	
# Panels @ (ft)	9 @ 6.66667		10 @ 4		
Weight (lb)	1756.8	1893.1	1701.0	770.9	532.3
14.6979	6654.2				



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
800-10121 (ATI)	97	5' T-arm (ATI)	97
800-10121 (ATI)	97	5' T-arm (ATI)	97
800-10121 (ATI)	97	5' T-arm (ATI)	97
(2) AM-X-CD-16-65 (ATI)	97	(2) NHH-65B-R2B (VzW)	90.8
(2) AM-X-CD-16-65 (ATI)	97	(2) NHH-65B-R2B (VzW)	90.8
(2) AM-X-CD-16-65 (ATI)	97	(2) NHH-65B-R2B (VzW)	90.8
(2) RIU Bias-T (ATI)	97	MT6407-77A (VzW)	90.8
(2) RIU Bias-T (ATI)	97	MT6407-77A (VzW)	90.8
(2) RIU Bias-T (ATI)	97	MT6407-77A (VzW)	90.8
(2) TMA-T-DB78-DD-A (ATI)	97	Samsung RF4439d-25A RRHs (VzW)	90.8
(2) TMA-T-DB78-DD-A (ATI)	97	Samsung RF4439d-25A RRHs (VzW)	90.8
(2) TMA-T-DB78-DD-A (ATI)	97	Samsung RF4439d-25A RRHs (VzW)	90.8
Raycap DC6-48-60-18-8F squid (ATI)	97	Samsung RF4440d-13A RRHs (VzW)	90.8
Ericsson RRUS-11 (ATI)	97	Samsung RF4440d-13A RRHs (VzW)	90.8
Ericsson RRUS-11 (ATI)	97	Samsung RF4440d-13A RRHs (VzW)	90.8
Ericsson RRUS-11 (ATI)	97	RVZDC-6627-PF-48 (VzW)	90.8
Ericsson RRUS-12 (ATI)	97	SitePro VFA12-HD (VzW)	90.8
Ericsson RRUS-12 (ATI)	97	SitePro VFA12-HD (VzW)	90.8
Ericsson RRUS-12 (ATI)	97	SitePro VFA12-HD (VzW)	90.8

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 90172 lb
SHEAR: 10907 lb

UPLIFT: -76664 lb
SHEAR: 9423 lb

AXIAL 45543 lb
SHEAR 5575 lb
MOMENT 356350 lb-ft
TORQUE 2374 lb-ft
50 mph WIND - 1.5000 in ICE

AXIAL 15524 lb
SHEAR 17928 lb
MOMENT 1081921 lb-ft
TORQUE 11032 lb-ft
REACTIONS - 116 mph WIND

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

Job:	***100' Self-Supporting Tower***		
Project:	***CT141_12940 Suffield S CT***		
Client: VzW Site #468895; Suffield S CT		Drawn by: M. Larson	App'd:
Code: TIA-222-H		Date: 10/26/21	Scale: NTS
Path: C:\Users\APT User\Desktop\Work\Jobs\Verizon\CT141_12940 Suffield S CT\CT141_12940.P01 Suffield S CT.eri			Dwg No. E-1

Appendix B

Photographs

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

Overview photo of the existing 100' self-supporting tower structure located in Windsor Locks, Connecticut.

Photo of typical existing equipment and mounts.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

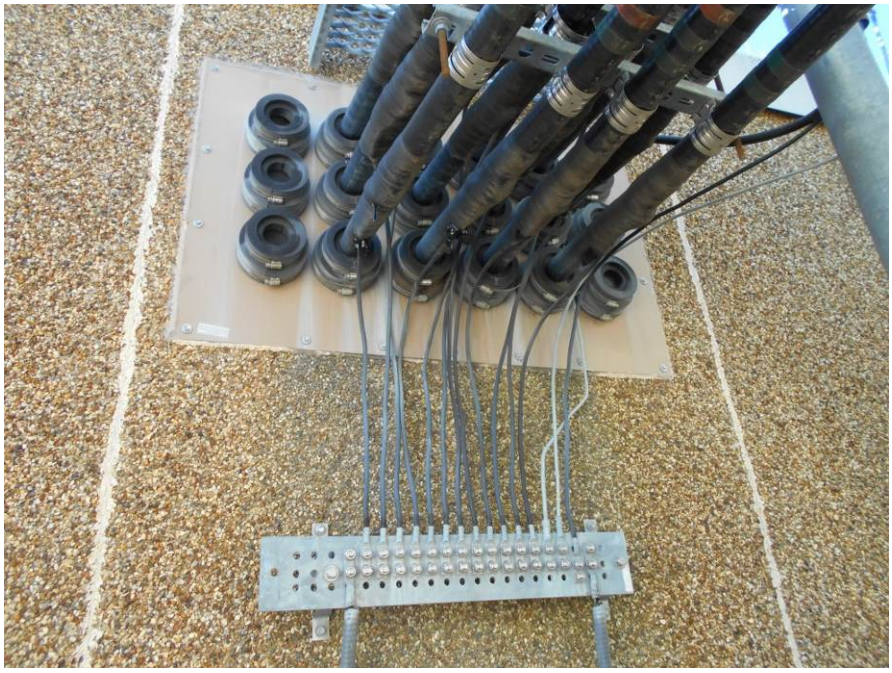


Photo of Verizon's existing hatch plates and ground bar at shelter.

Photo of Verizon's existing ice bridge.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

Photo of Verizon's existing waveguide ladder on tower.

Photo of Verizon's typical existing equipment and mounts at 90.8'.

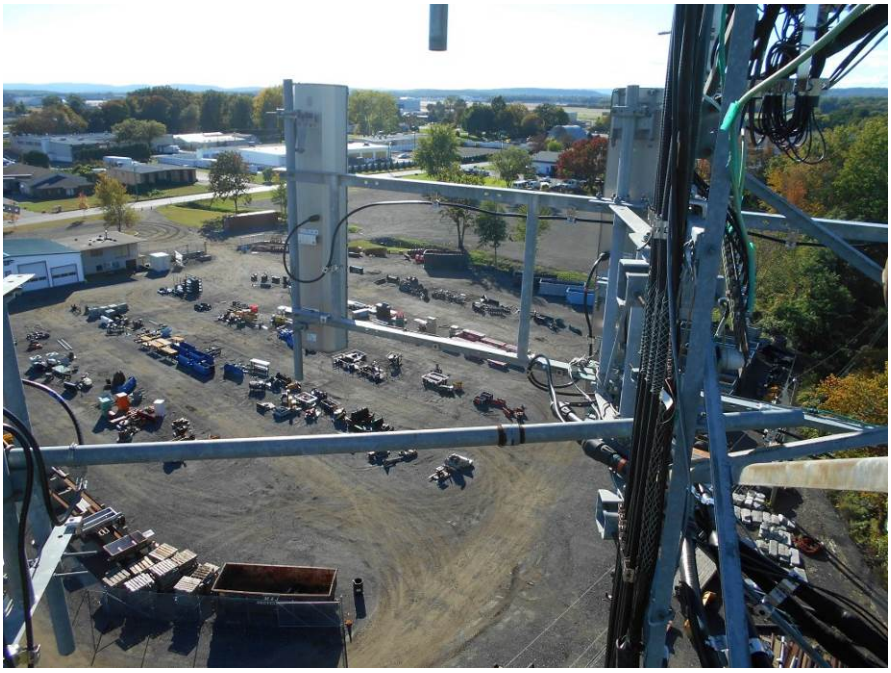
Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

Additional photos of Verizon's typical existing equipment and mounts at 90.8'.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT



Additional photos of Verizon's typical existing equipment and mounts at 90.8'.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

Photos of AT&T's existing feed lines and ground bar at cabinet.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

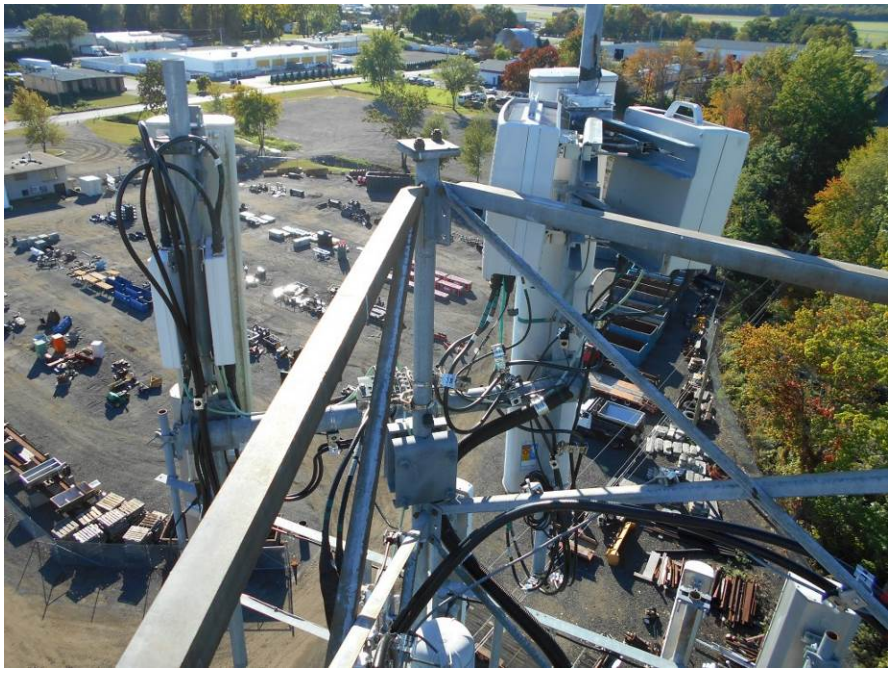
VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

Photo of AT&T's existing waveguide ladder on tower.

Photo of AT&T's typical existing equipment and mounts at 97'.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

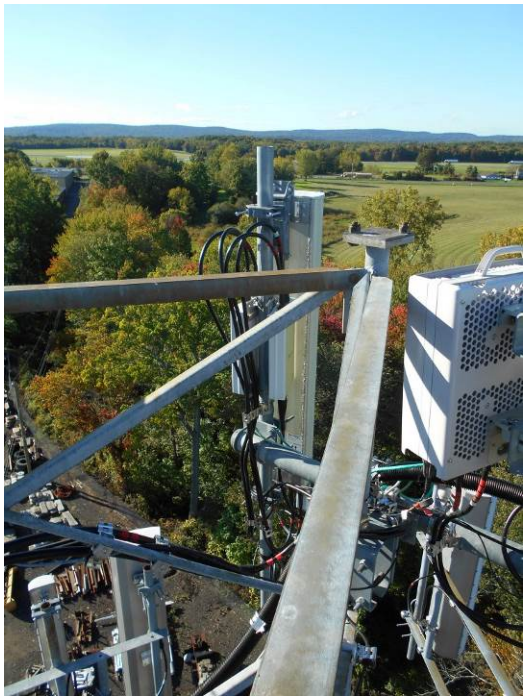


Additional photos of AT&T's typical existing equipment and mounts at 97'.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

Additional photos of AT&T's typical existing equipment and mounts at 97'.



Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

Photos of unlabeled feed lines on tower.

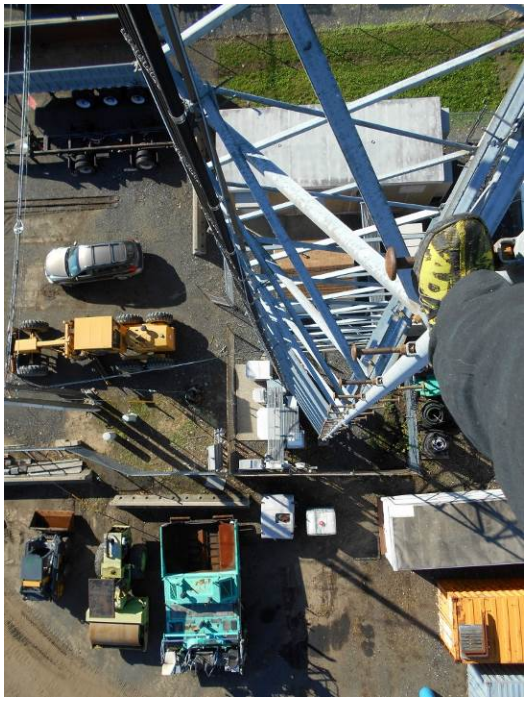
Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT

Photos of typical existing base foundations.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

VERIZON WIRELESS
100' SELF-SUPPORTING TOWER
WINDSOR LOCKS, CONNECTICUT
VZW SITE #468895; SUFFIELD S CT



Overview photos of compound from tower.

Photos taken by All-Points Technology Corporation, P.C. on October 7, 2021.

Appendix C

Calculations

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 100.00 ft above the ground line.
The base of the tower is set at an elevation of 0.00 ft above the ground line.
The face width of the tower is 6.52 ft at the top and 14.70 ft at the base.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in Bristol County, Massachusetts.
Tower base elevation above sea level: 0.00 ft.
Basic wind speed of 116 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 1.5000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in tower member design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances

Description	*Face or Leg*	*Allow Shield*	*Exclude From Torque Calculation*	*Component Type*	*Placement ft*	*Face Offset in*	*Lateral Offset (Frac FW)*	*#*	*# Per Row*	*Clear Spacing in*	*Width or Diameter in*	*Perimeter in*	*Weight plf*
1 5/8 (VzW)	A	No	No	Ar (CaAa)	90.80 - 5.00	0.0000	-0.35	10	10	0.5000	1.9800		1.04
1-5/8" 12x24 LI Hybrid (VzW)	A	No	No	Ar (CaAa)	90.80 - 5.00	0.0000	-0.26	1	1	0.5000	1.9800		3.20
7/8 (AT&T)	B	No	No	Ar (CaAa)	97.00 - 5.00	0.0000	0	6	6	1.1100	1.1100		0.54
3/8 (AT&T)	B	No	No	Ar (CaAa)	97.00 - 5.00	0.0000	0.05	1	1	0.4400	0.4400		0.08
2" conduit (AT&T)	B	No	No	Ar (CaAa)	97.00 - 5.00	0.0000	-0.05	1	1	2.0000	2.0000		2.00
EW90 (inactive)	B	No	No	Ar (CaAa)	17.00 - 5.00	0.0000	0.5	1	1	0.9869	0.9869		0.32

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight lb
800-10121 (AT&T)	A	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.16 5.51 5.87 6.61	3.29 3.64 3.99 4.71	50.00 82.91 120.59 211.06
800-10121 (AT&T)	B	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.16 5.51 5.87 6.61	3.29 3.64 3.99 4.71	50.00 82.91 120.59 211.06
800-10121 (AT&T)	C	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.16 5.51 5.87 6.61	3.29 3.64 3.99 4.71	50.00 82.91 120.59 211.06
(2) AM-X-CD-16-65 (AT&T)	A	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.04 6.41 6.77 7.53	4.11 4.45 4.80 5.51	35.00 76.48 122.98 231.83
(2) AM-X-CD-16-65 (AT&T)	B	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.04 6.41 6.77 7.53	4.11 4.45 4.80 5.51	35.00 76.48 122.98 231.83
(2) AM-X-CD-16-65 (AT&T)	C	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	6.04 6.41 6.77 7.53	4.11 4.45 4.80 5.51	35.00 76.48 122.98 231.83
(2) RIU Bias-T (AT&T)	A	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.08 0.12 0.17 0.28	0.05 0.08 0.12 0.22	1.30 2.26 3.93 10.21
(2) RIU Bias-T (AT&T)	B	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.08 0.12 0.17 0.28	0.05 0.08 0.12 0.22	1.30 2.26 3.93 10.21
(2) RIU Bias-T (AT&T)	C	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.08 0.12 0.17 0.28	0.05 0.08 0.12 0.22	1.30 2.26 3.93 10.21
(2) TMA-T-DB78-DD-A (AT&T)	A	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.58 1.73 2.07	0.60 0.70 0.82 1.06	40.00 51.46 65.18 100.19
(2) TMA-T-DB78-DD-A (AT&T)	B	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.58 1.73 2.07	0.60 0.70 0.82 1.06	40.00 51.46 65.18 100.19
(2) TMA-T-DB78-DD-A (AT&T)	C	From Face	4.00 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.58 1.73 2.07	0.60 0.70 0.82 1.06	40.00 51.46 65.18 100.19
Raycap DC6-48-60-18-8F squid (AT&T)	C	None		0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.74 1.20 1.37 1.73	0.74 1.20 1.37 1.73	30.00 44.34 60.93 101.52
Ericsson RRUS-11 (AT&T)	A	From Face	3.50 0.00	0.0000	97.00	No Ice 1/2" Ice	2.79 3.00	1.02 1.16	55.00 75.86

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight lb
			0.00			1" Ice	3.21	1.30	99.77
						2" Ice	3.66	1.62	157.47
Ericsson RRUS-11 (AT&T)	B	From Face	3.50 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.79 3.00 3.21 3.66	1.02 1.16 1.30 1.62	55.00 75.86 99.77 157.47
Ericsson RRUS-11 (AT&T)	C	From Face	3.50 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.79 3.00 3.21 3.66	1.02 1.16 1.30 1.62	55.00 75.86 99.77 157.47
Ericsson RRUS-12 (AT&T)	A	From Face	3.50 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.15 3.36 3.59 4.07	1.85 2.03 2.22 2.61	85.00 112.62 143.66 216.78
Ericsson RRUS-12 (AT&T)	B	From Face	3.50 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.15 3.36 3.59 4.07	1.85 2.03 2.22 2.61	85.00 112.62 143.66 216.78
Ericsson RRUS-12 (AT&T)	C	From Face	3.50 0.00 0.00	0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.15 3.36 3.59 4.07	1.85 2.03 2.22 2.61	85.00 112.62 143.66 216.78
5' T-arm (AT&T)	A	None		0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.65 3.56 4.48 6.31	4.96 6.81 8.66 12.36	140.00 240.00 340.00 540.00
5' T-arm (AT&T)	B	None		0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.65 3.56 4.48 6.31	4.96 6.81 8.66 12.36	140.00 240.00 340.00 540.00
5' T-arm (AT&T)	C	None		0.0000	97.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.65 3.56 4.48 6.31	4.96 6.81 8.66 12.36	140.00 240.00 340.00 540.00
(2) NHH-65B-R2B (VzW)	A	From Face	4.00 0.00 0.00	0.0000	90.80	No Ice 1/2" Ice 1" Ice 2" Ice	8.08 8.53 9.00 9.95	5.34 5.79 6.26 7.20	50.00 100.05 156.20 287.55
(2) NHH-65B-R2B (VzW)	B	From Face	4.00 0.00 0.00	0.0000	90.80	No Ice 1/2" Ice 1" Ice 2" Ice	8.08 8.53 9.00 9.95	5.34 5.79 6.26 7.20	50.00 100.05 156.20 287.55
(2) NHH-65B-R2B (VzW)	C	From Face	4.00 0.00 0.00	0.0000	90.80	No Ice 1/2" Ice 1" Ice 2" Ice	8.08 8.53 9.00 9.95	5.34 5.79 6.26 7.20	50.00 100.05 156.20 287.55
MT6407-77A (VzW)	A	From Face	4.00 0.00 0.00	0.0000	90.80	No Ice 1/2" Ice 1" Ice 2" Ice	4.69 4.98 5.28 5.89	1.84 2.06 2.29 2.77	90.00 119.24 152.35 230.94
MT6407-77A (VzW)	B	From Face	4.00 0.00 0.00	0.0000	90.80	No Ice 1/2" Ice 1" Ice 2" Ice	4.69 4.98 5.28 5.89	1.84 2.06 2.29 2.77	90.00 119.24 152.35 230.94
MT6407-77A (VzW)	C	From Face	4.00 0.00 0.00	0.0000	90.80	No Ice 1/2" Ice 1" Ice	4.69 4.98 5.28	1.84 2.06 2.29	90.00 119.24 152.35

Description	Face or Leg	Offset Type	Offsets: Horz Lateral / Vert (ft / ft / ft)	Azimuth Adjustment (°)	Placement (ft)		C_AA_A Front (ft^2)	C_AA_A Side (ft^2)	Weight (lb)
						2" Ice	5.89	2.77	230.94
Samsung RF4439d-25A	A	From Face	3.50	0.0000	90.80	No Ice	1.87	1.25	100.00
RRHs			0.00			1/2" Ice	2.03	1.39	118.32
(VzW)			0.00			1" Ice	2.21	1.54	139.42
						2" Ice	2.59	1.87	190.75
Samsung RF4439d-25A	B	From Face	3.50	0.0000	90.80	No Ice	1.87	1.25	100.00
RRHs			0.00			1/2" Ice	2.03	1.39	118.32
(VzW)			0.00			1" Ice	2.21	1.54	139.42
						2" Ice	2.59	1.87	190.75
Samsung RF4439d-25A	C	From Face	3.50	0.0000	90.80	No Ice	1.87	1.25	100.00
RRHs			0.00			1/2" Ice	2.03	1.39	118.32
(VzW)			0.00			1" Ice	2.21	1.54	139.42
						2" Ice	2.59	1.87	190.75
Samsung RF4440d-13A	A	From Face	3.50	0.0000	90.80	No Ice	1.87	1.13	85.00
RRHs			0.00			1/2" Ice	2.03	1.27	102.32
(VzW)			0.00			1" Ice	2.21	1.41	122.37
						2" Ice	2.59	1.72	171.39
Samsung RF4440d-13A	B	From Face	3.50	0.0000	90.80	No Ice	1.87	1.13	85.00
RRHs			0.00			1/2" Ice	2.03	1.27	102.32
(VzW)			0.00			1" Ice	2.21	1.41	122.37
						2" Ice	2.59	1.72	171.39
Samsung RF4440d-13A	C	From Face	3.50	0.0000	90.80	No Ice	1.87	1.13	85.00
RRHs			0.00			1/2" Ice	2.03	1.27	102.32
(VzW)			0.00			1" Ice	2.21	1.41	122.37
						2" Ice	2.59	1.72	171.39
RVZDC-6627-PF-48	C	None		0.0000	90.80	No Ice	6.13	5.25	45.00
(VzW)						1/2" Ice	6.44	5.55	103.92
						1" Ice	6.76	5.85	167.82
						2" Ice	7.43	6.49	311.39
SitePro VFA12-HD	A	None		0.0000	90.80	No Ice	13.20	9.20	658.00
(VzW)						1/2" Ice	19.50	14.60	804.00
						1" Ice	25.80	19.50	1015.00
						2" Ice	38.40	30.80	1242.00
SitePro VFA12-HD	B	None		0.0000	90.80	No Ice	13.20	9.20	658.00
(VzW)						1/2" Ice	19.50	14.60	804.00
						1" Ice	25.80	19.50	1015.00
						2" Ice	38.40	30.80	1242.00
SitePro VFA12-HD	C	None		0.0000	90.80	No Ice	13.20	9.20	658.00
(VzW)						1/2" Ice	19.50	14.60	804.00
						1" Ice	25.80	19.50	1015.00
						2" Ice	38.40	30.80	1242.00

Solution Summary

Maximum Tower Deflections - Service Wind

Section No.	Elevation (ft)	Horz. Deflection (in)	Gov. Load Comb.	Tilt (°)	Twist (°)
T1	100 - 80	1.953	48	0.1573	0.0138
T2	80 - 60	1.286	48	0.1434	0.0119
T3	60 - 40	0.726	43	0.1099	0.0076
T4	40 - 20	0.329	43	0.0745	0.0057
T5	20 - 0	0.091	43	0.0330	0.0035

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
97.00	800-10121	48	1.850	0.1560	0.0136	171133
90.80	(2) NHH-65B-R2B	48	1.639	0.1528	0.0132	93007

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	100 - 80	7.338	10	0.5884	0.0515
T2	80 - 60	4.841	10	0.5373	0.0445
T3	60 - 40	2.733	10	0.4127	0.0283
T4	40 - 20	1.237	10	0.2802	0.0212
T5	20 - 0	0.341	10	0.1243	0.0132

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
97.00	800-10121	10	6.953	0.5836	0.0509	46254
90.80	(2) NHH-65B-R2B	10	6.164	0.5720	0.0494	25138

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt lb	Allowable Load per Bolt lb	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	100	Leg	A325N	0.6250	4	2759.93	20340.10	0.136 ✔	1	Bolt Tension
		Diagonal	A325N	0.5000	1	2652.82	6960.00	0.381 ✔	1	Member Bearing
		Top Girt	A325N	0.5000	1	57.57	4132.50	0.014 ✔	1	Member Bearing
T2	80	Leg	A325N	0.6250	4	7326.58	20340.10	0.360 ✔	1	Bolt Tension
		Diagonal	A325N	0.5000	1	2383.33	6960.00	0.342 ✔	1	Member Bearing
T3	60	Leg	A325N	0.7500	4	10997.10	30101.40	0.365 ✔	1	Bolt Tension
		Diagonal	A325N	0.5000	1	3208.13	8835.73	0.363 ✔	1	Bolt Shear
		Secondary Horizontal	A325N	0.6250	1	230.44	7830.00	0.029 ✔	1	Member Bearing
T4	40	Leg	A325N	0.8750	4	14845.60	41556.00	0.357 ✔	1	Bolt Tension
		Diagonal	A325N	0.5000	1	3613.80	8835.73	0.409 ✔	1	Bolt Shear
		Secondary Horizontal	A325N	0.6250	1	362.48	7830.00	0.046 ✔	1	Member Bearing
T5	20	Leg	A325N	0.8750	4	18542.00	41556.00	0.446 ✔	1	Bolt Tension
		Diagonal	A325N	0.5000	1	3987.20	8835.73	0.451 ✔	1	Bolt Shear
		Secondary Horizontal	A325N	0.6250	1	324.07	7830.00	0.041 ✔	1	Member Bearing

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
T1	**100 - 80**	**Leg**	**ROHN 2 STD**	**2**	**-14868.20**	**36842.30**	**40.4**	**Pass**
		Diagonal	L1 1/2x1 1/2x1/8	7	-2652.82	4994.25	53.1	Pass
		Top Girt	L2x2x1/8	5	-36.39	4069.59	0.9	Pass
							1.4 (b)	
T2	**80 - 60**	**Leg**	**ROHN 2.5 STD**	**38**	**-34573.60**	**63518.80**	**54.4**	**Pass**
		Diagonal	L2x2x1/8	41	-2383.33	7689.21	31.0	Pass
							34.2 (b)	
T3	**60 - 40**	**Leg**	**ROHN 2.5 X-STR**	**71**	**-51342.30**	**87567.00**	**58.6**	**Pass**
		Diagonal	L3x3x1/4	74	-3208.13	27599.90	11.6	Pass
							36.3 (b)	
		Secondary Horizontal	L2x2x3/16	79	-234.37	5658.39	4.1	Pass
T4	**40 - 20**	**Leg**	**ROHN 3 STD**	**101**	**-69562.00**	**91506.00**	**76.0**	**Pass**
		Diagonal	L3x3x1/4	104	-3613.80	21297.60	17.0	Pass
							40.9 (b)	
		Secondary Horizontal	L2x2x3/16	109	-359.95	3903.86	9.2	Pass
T5	**20 - 0**	**Leg**	**ROHN 3 X-STR**	**131**	**-87182.50**	**123382.00**	**70.7**	**Pass**
		Diagonal	L2 1/2x2 1/2x3/16	134	-3987.20	7265.53	54.9	Pass
		Secondary Horizontal	L2x2x3/16	149	-325.49	3135.34	10.4	Pass
							Summary	
						Leg (T4)	76.0	Pass
						Diagonal (T5)	54.9	Pass
						Secondary Horizontal (T5)	10.4	Pass
						Top Girt (T1)	1.4	Pass
						Bolt Checks	45.1	Pass
						RATING =	**76.0**	**Pass**

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@colliersengineering.com

New/Replacement Antenna Mount Analysis Report and PMI Requirements

Mount Analysis-R

SMART Tool Project #: 10101465
Maser Consulting Connecticut Project #: 21777790A

September 14, 2021

Site Information	*Site ID:*	*468895-VZW / SUFFIELD S CT*
	Site Name:	*SUFFIELD S CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*55 King Spring Road* *Windsor Locks, Connecticut 06096* *Hartford County*
	Latitude:	*41.946669°*
	Longitude:	*-72.665089°*
Structure Information	*Tower Type:*	*100-Ft Self Support*
	Mount Type:	*12.50-Ft Sector Frame*

FUZE ID # 16092584

Analysis Results

Sector Frame: **34.7% Pass**

******Contractor PMI Requirements***:
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements may also be Noted on A & E drawings
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Morgan Chatmon

Executive Summary:

The objective of this report is to determine the capacity of the proposed antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. The proposed mount was assumed to be installed properly to the existing tower per the manufacturer's instructions. Maser Consulting cannot verify that the proposed mount will fit properly and is not liable for any fit-up issues during installation.

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: 324942, dated August 28, 2021*
Previous Mount Analysis	*Maser Consulting, Project #: 21777790A, dated September 3, 2021*
Mount Specification	*Site Pro 1, P/N # VFA12-HD*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	116 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.995
Seismic Parameters:	S_S:	0.174
	S_1:	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
90.80	90.80	6	Commscope	NHH-65B-R2B	Added
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	

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 mount(s).

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.

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

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

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

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

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

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
Face Horizontal	*12.9%*	*Pass*
Standoff Plate	*34.7%*	*Pass*
Standoff Horizontal	*14.8%*	*Pass*
Standoff Diagonal	*7.2%*	*Pass*
Mount Pipe	*20.1%*	*Pass*
Standoff Vertical	*4.4%*	*Pass*
Tieback	*4.1%*	*Pass*
Mount Connection	*14.2%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**34.7%**

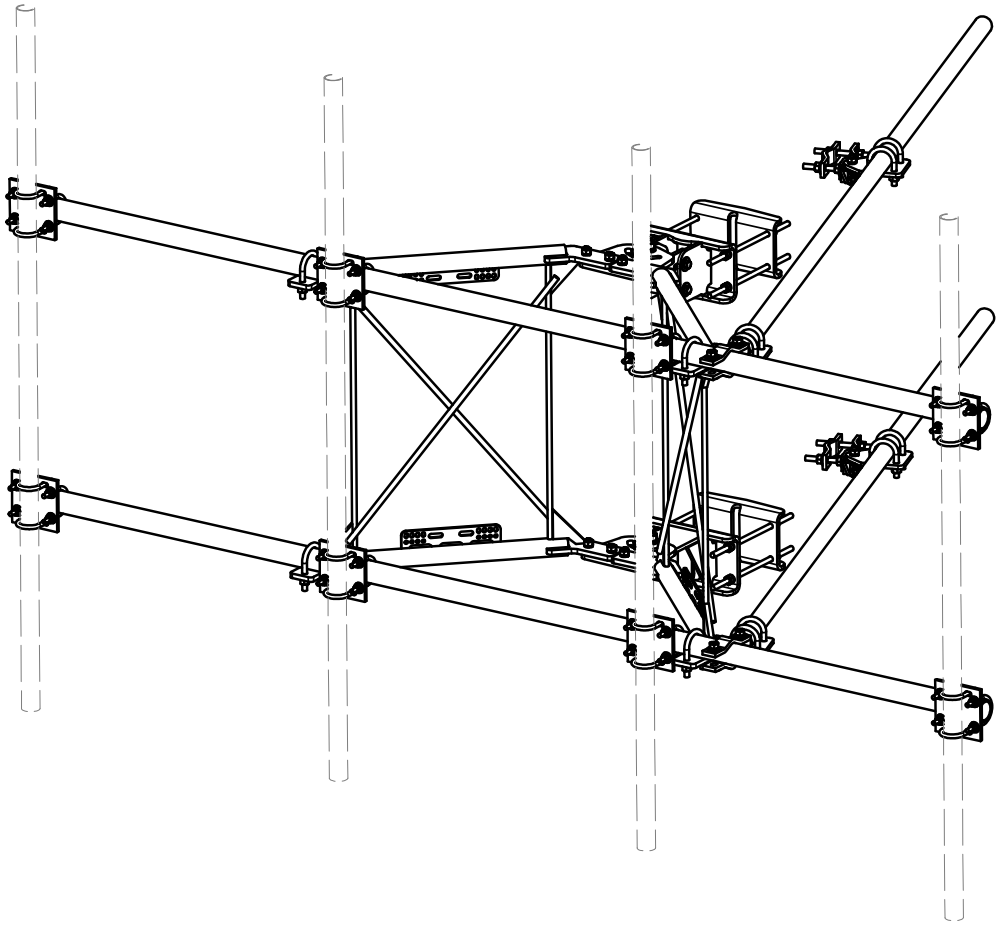
Recommendation:

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

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

Attachments:

1. Mount Specifications
2. Analysis Calculations
3. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
4. Antenna Placement Diagrams



PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		71.41	142.81
2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
5	2	X-LCBP4	BENT BACKING PLATE	13 in	19.00	38.01
6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
9	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
10	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
11	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	18.90
13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
14	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
15	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
20	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
21	4	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	2.79
22	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
23	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
24	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
25	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
26	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
27	4	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.08
28	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
29	25	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.76
30	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
31	71	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.22
32	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
33	16	X-UB1212	1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.)		0.60	9.56
34	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
35	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
36	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.58
					TOTAL WT. #	738.06

REVISION HISTORY

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017
B	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017
A	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
12' 6" HEAVY DUTY
V-FRAME ASSEMBLY
WITH TWO STIFF ARMS

SITE PRO 1 — A valmont COMPANY

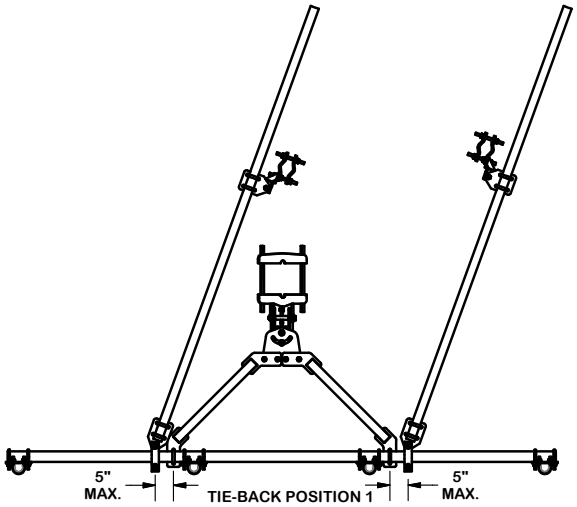
Engineering Support Team: 1-888-753-7446

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

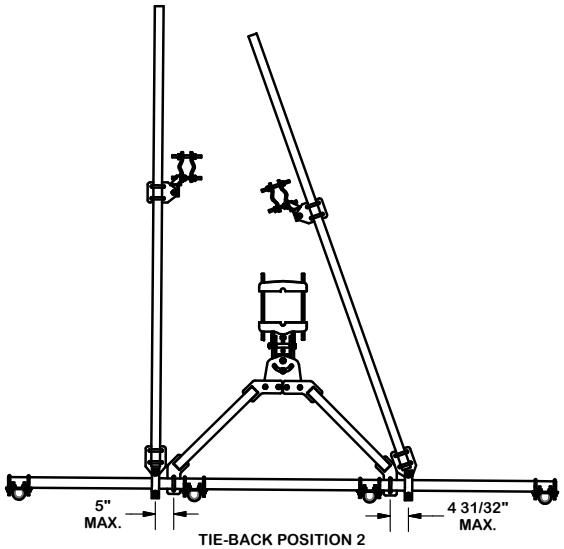
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 1/25/2017		VFA12-HD

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 12/13/2017	VFA12-HD

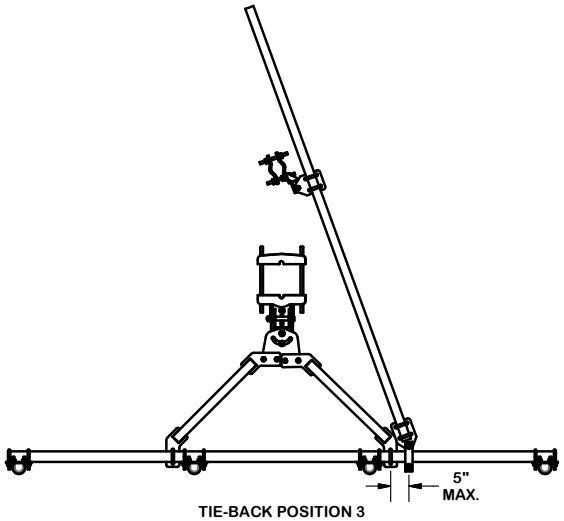
TIE-BACK POSITIONS



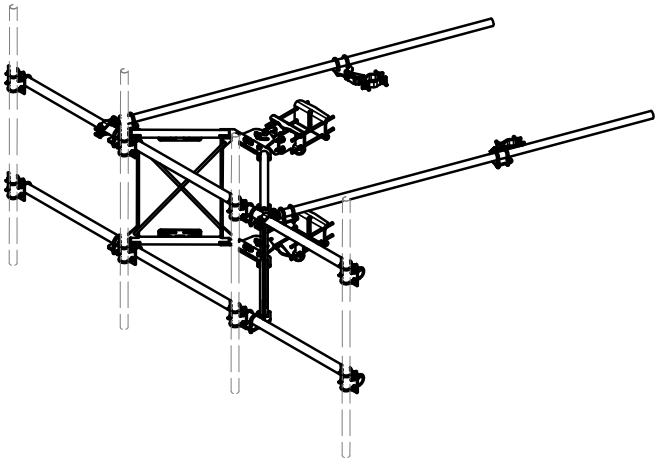
TIE-BACK POSITION 1
-20° / +20° TOP PARALLEL

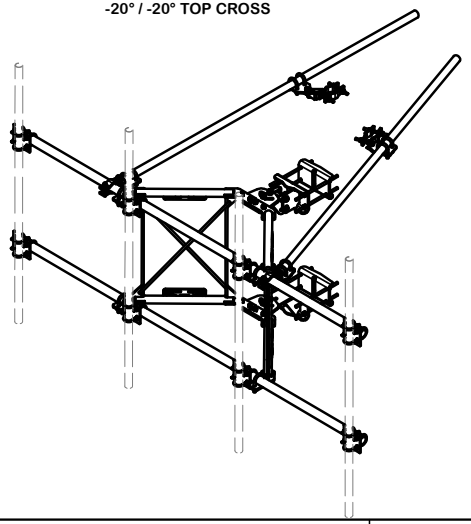


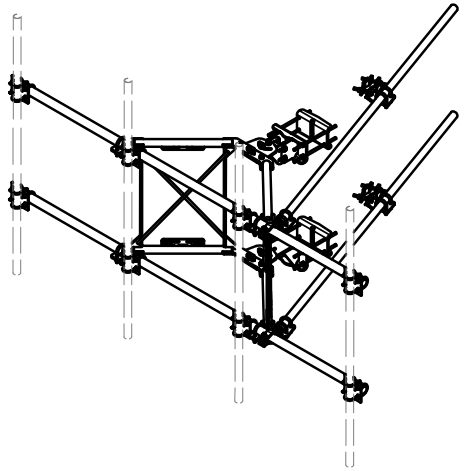
TIE-BACK POSITION 2
-20° / -20° TOP CROSS



TIE-BACK POSITION 3
-20° SAME SIDE STACKED







REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
D	UPDATED BCAM VERSION 1 TO BCAM VERSION 2		CEK	6/29/2018
C	UPDATED PIN LEG CONNECTION TO B-CAM CONNECTION		CEK	12/7/2017
B	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017
A	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017

REVISION HISTORY

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

DESCRIPTION
12' 6" HEAVY DUTY
V-FRAME ASSEMBLY
WITH TWO STIFF ARMS

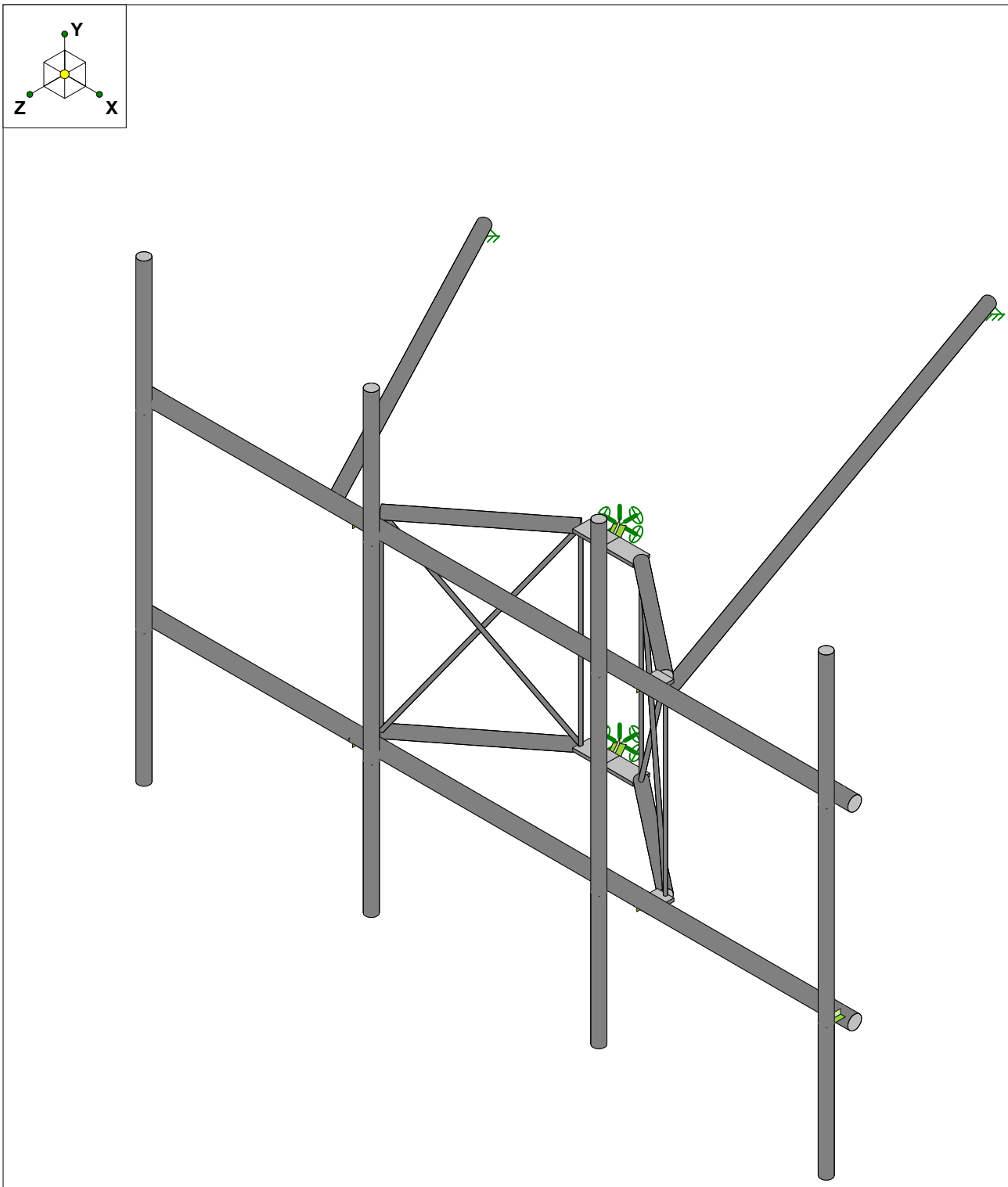
SITE PRO 1
A valmont COMPANY

Engineering Support Team:
1-888-753-7446

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

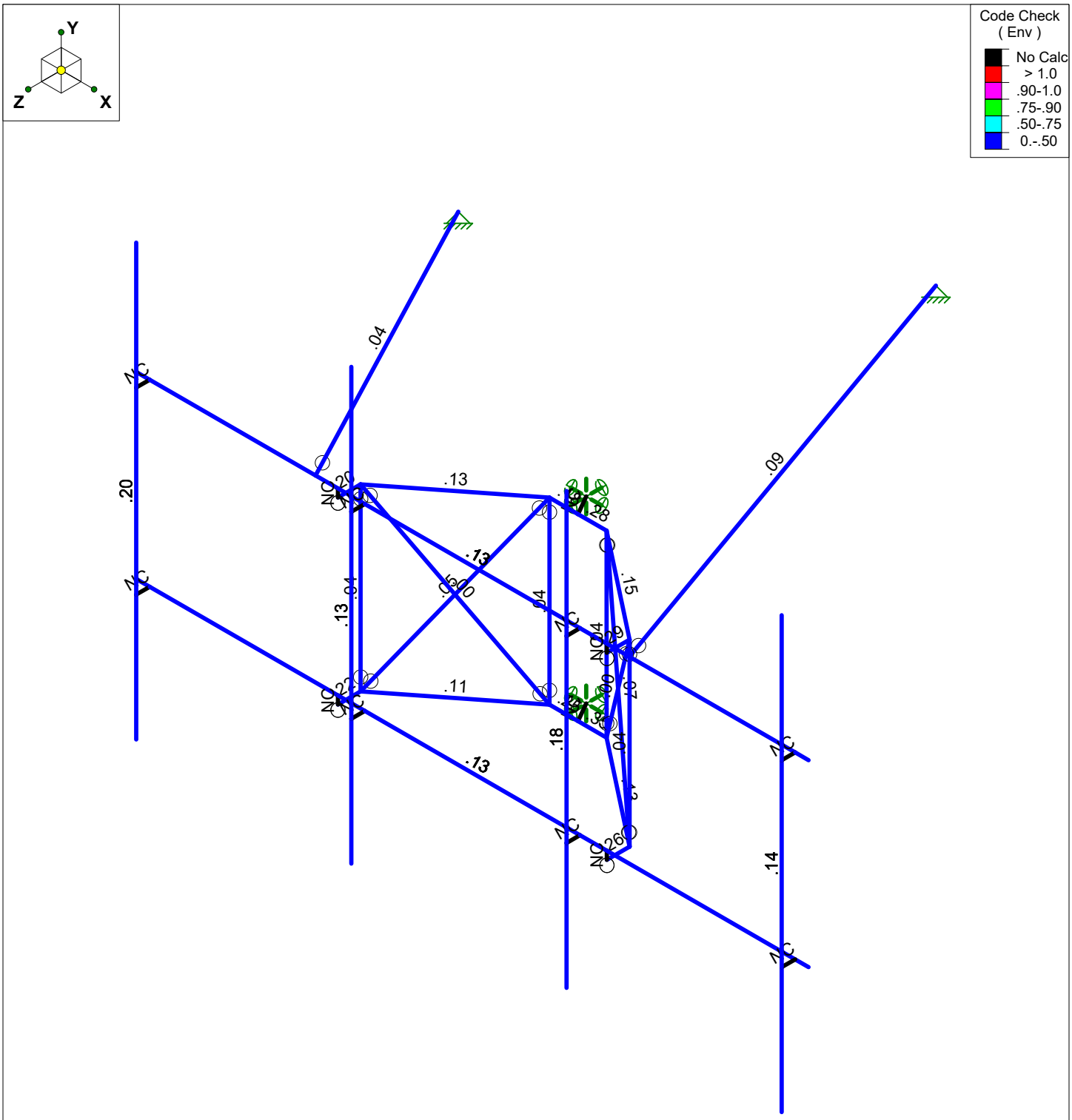
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 1/25/2017		VFA12-HD

CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 12/13/2017	VFA12-HD



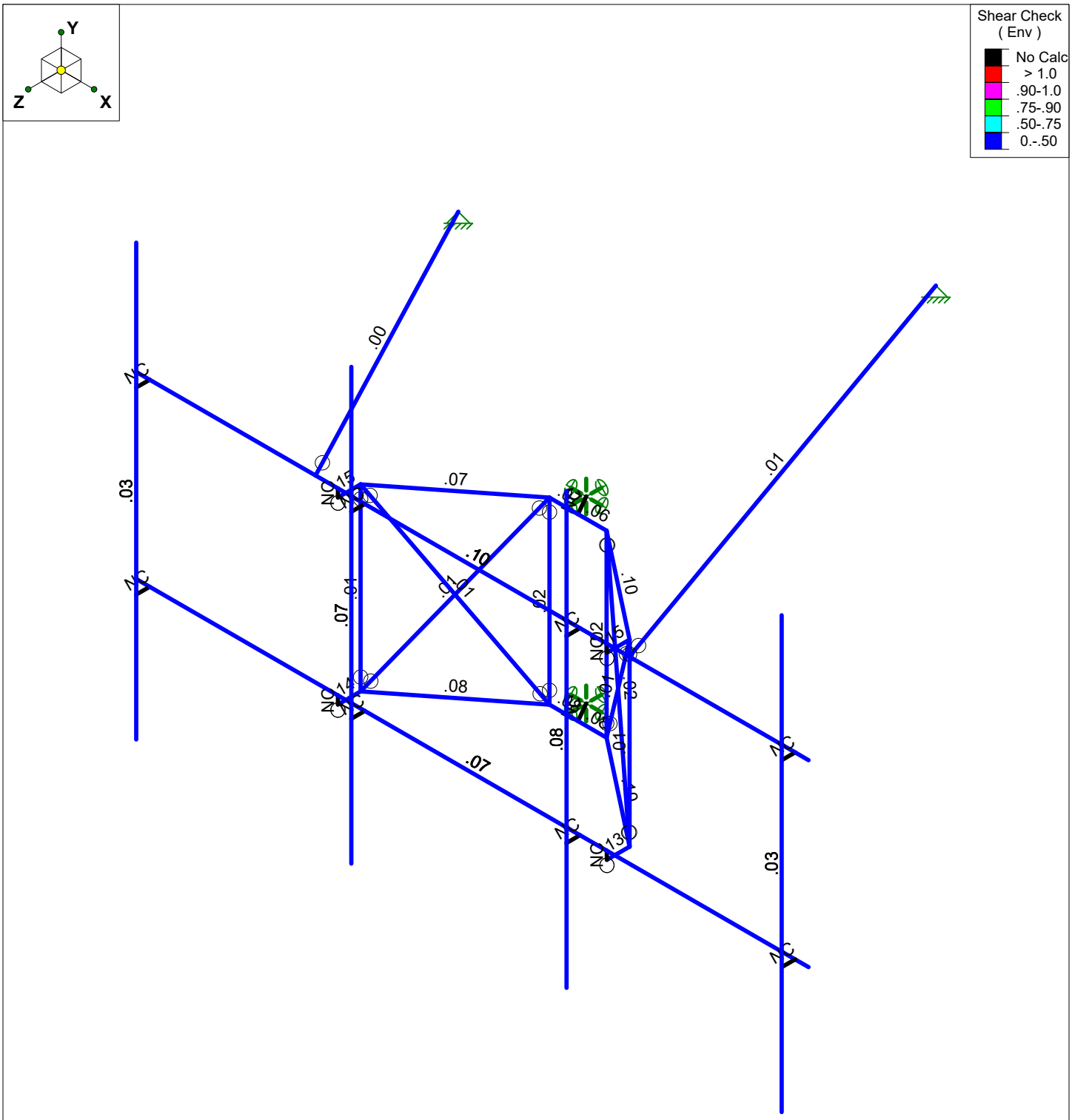
Envelope Only Solution

Maser Consulting	468895-VZW_MT_LOT_SectorA_H	SK - 1
		Sept 13, 2021 at 12:59 PM
Project No. 21777790A		468895-VZW_MT_LOT_A_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	468895-VZW_MT_LOT_SectorA_H	SK - 2
		Sept 13, 2021 at 1:01 PM
Project No. 21777790A		468895-VZW_MT_LOT_A_H.r3d



Maser Consulting	468895-VZW_MT_LOT_SectorA_H	SK - 3
		Sept 13, 2021 at 1:02 PM
Project No. 21777790A		468895-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					27			
2	Antenna Di	None					27			
3	Antenna Wo (0 Deg)	None					27			
4	Antenna Wo (30 Deg)	None					27			
5	Antenna Wo (60 Deg)	None					27			
6	Antenna Wo (90 Deg)	None					27			
7	Antenna Wo (120 Deg)	None					27			
8	Antenna Wo (150 Deg)	None					27			
9	Antenna Wo (180 Deg)	None					27			
10	Antenna Wo (210 Deg)	None					27			
11	Antenna Wo (240 Deg)	None					27			
12	Antenna Wo (270 Deg)	None					27			
13	Antenna Wo (300 Deg)	None					27			
14	Antenna Wo (330 Deg)	None					27			
15	Antenna Wi (0 Deg)	None					27			
16	Antenna Wi (30 Deg)	None					27			
17	Antenna Wi (60 Deg)	None					27			
18	Antenna Wi (90 Deg)	None					27			
19	Antenna Wi (120 Deg)	None					27			
20	Antenna Wi (150 Deg)	None					27			
21	Antenna Wi (180 Deg)	None					27			
22	Antenna Wi (210 Deg)	None					27			
23	Antenna Wi (240 Deg)	None					27			
24	Antenna Wi (270 Deg)	None					27			
25	Antenna Wi (300 Deg)	None					27			
26	Antenna Wi (330 Deg)	None					27			
27	Antenna Wm (0 Deg)	None					27			
28	Antenna Wm (30 Deg)	None					27			
29	Antenna Wm (60 Deg)	None					27			
30	Antenna Wm (90 Deg)	None					27			
31	Antenna Wm (120 De...	None					27			
32	Antenna Wm (150 De...	None					27			
33	Antenna Wm (180 De...	None					27			
34	Antenna Wm (210 De...	None					27			
35	Antenna Wm (240 De...	None					27			
36	Antenna Wm (270 De...	None					27			
37	Antenna Wm (300 De...	None					27			
38	Antenna Wm (330 De...	None					27			
39	Structure D	None		-1						
40	Structure Di	None						28		
41	Structure Wo (0 Deg)	None						56		
42	Structure Wo (30 Deg)	None						56		
43	Structure Wo (60 Deg)	None						56		
44	Structure Wo (90 Deg)	None						56		
45	Structure Wo (120 D...	None						56		
46	Structure Wo (150 D...	None						56		
47	Structure Wo (180 D...	None						56		
48	Structure Wo (210 D...	None						56		
49	Structure Wo (240 D...	None						56		
50	Structure Wo (270 D...	None						56		
51	Structure Wo (300 D...	None						56		
52	Structure Wo (330 D...	None						56		
53	Structure Wi (0 Deg)	None						56		
54	Structure Wi (30 Deg)	None						56		
55	Structure Wi (60 Deg)	None						56		
56	Structure Wi (90 Deg)	None						56		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						56		
58	Structure Wi (150 De...	None						56		
59	Structure Wi (180 De...	None						56		
60	Structure Wi (210 De...	None						56		
61	Structure Wi (240 De...	None						56		
62	Structure Wi (270 De...	None						56		
63	Structure Wi (300 De...	None						56		
64	Structure Wi (330 De...	None						56		
65	Structure Wm (0 Deg)	None						56		
66	Structure Wm (30 De...	None						56		
67	Structure Wm (60 De...	None						56		
68	Structure Wm (90 De...	None						56		
69	Structure Wm (120 D...	None						56		
70	Structure Wm (150 D...	None						56		
71	Structure Wm (180 D...	None						56		
72	Structure Wm (210 D...	None						56		
73	Structure Wm (240 D...	None						56		
74	Structure Wm (270 D...	None						56		
75	Structure Wm (300 D...	None						56		
76	Structure Wm (330 D...	None						56		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			

Load Combinations

	Description	Sol...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (120 D...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (150 D...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (180 D...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (210 D...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (240 D...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (270 D...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (300 D...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (330 D...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										

Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N5	-8.833333	0.145833	8.083333	0	
6	N6	-8.833333	3.479167	8.083333	0	
7	N7	-4.833333	0.145833	8.083333	0	
8	N8	-4.833333	3.479167	8.083333	0	
9	N9	-0.833333	0.145833	8.083333	0	
10	N10	-0.833333	3.479167	8.083333	0	
11	N11	3.166667	0.145833	8.083333	0	
12	N12	3.166667	3.479167	8.083333	0	
13	N13	-8.833333	0.145833	8.333333	0	
14	N14	-8.833333	3.479167	8.333333	0	
15	N15	-4.833333	0.145833	8.333333	0	
16	N16	-4.833333	3.479167	8.333333	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N17	-0.833333	0.145833	8.333333	0	
18	N18	-0.833333	3.479167	8.333333	0	
19	N19	3.166667	0.145833	8.333333	0	
20	N20	3.166667	3.479167	8.333333	0	
21	N21	-5.333333	0	8.083333	0	
22	N22	-5.333333	3.333333	8.083333	0	
23	N23	-0.333333	0	8.083333	0	
24	N24	-0.333333	3.333333	8.083333	0	
25	N25	-5.333333	0	7.661458	0	
26	N26	-5.333333	3.333333	7.661458	0	
27	N27	-0.333333	0	7.661458	0	
28	N28	-0.333333	3.333333	7.661458	0	
29	N29	-2.833333	0	6.119792	0	
30	N30	-2.833333	3.333333	6.119792	0	
31	N31	-3.364583	0	6.119792	0	
32	N32	-3.364583	3.333333	6.119792	0	
33	N33	-2.302083	0	6.119792	0	
34	N34	-2.302083	3.333333	6.119792	0	
35	N35	-3.041667	0	5.758948	0	
36	N36	-3.041667	3.333333	5.758948	0	
37	N38	0.083333	3.479167	8.083333	0	
38	N39	-8.833333	5.8125	8.333333	0	
39	N40	-4.833333	5.8125	8.333333	0	
40	N41	-0.833333	5.8125	8.333333	0	
41	N42	3.166667	5.8125	8.333333	0	
42	N43	-8.833333	-2.1875	8.333333	0	
43	N44	-4.833333	-2.1875	8.333333	0	
44	N45	-0.833333	-2.1875	8.333333	0	
45	N46	3.166667	-2.1875	8.333333	0	
46	N59	-5.333333	0.145833	8.083333	0	
47	N60	-5.333333	3.479167	8.083333	0	
48	N61	-0.333333	0.145833	8.083333	0	
49	N62	-0.333333	3.479167	8.083333	0	
50	N55	-5.75	3.479167	8.083333	0	
51	N52	-8.670831	3.479167	2.508948	0	
52	N53	-3.041666	3.479167	-0.741052	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	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	Mount Pipe P2.5	PIPE_2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Face Horizontal	PIPE_2.5	Beam	Pipe	Q235	Typical	1.61	1.45	1.45	2.89
4	Standoff Horizontal	PIPE_2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
5	Standoff Diagonal	SR 0.75	Column	BAR	Q235	Typical	.442	.016	.016	.031
6	Tieback	PIPE_2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
7	Standoff Vertical	SR 0.625	Column	BAR	Q235	Typical	.307	.007	.007	.015
8	Standoff Plate	PL5/8X3.5	Beam	BAR	Q235	Typical	2.188	.071	2.233	.253

Hot Rolled Steel Properties

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

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3
7	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N1			Face Horizontal	Beam	Pipe	Q235	Typical
2	M2	N4	N3			Face Horizontal	Beam	Pipe	Q235	Typical
3	M3	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N6	N14			RIGID	None	None	RIGID	Typical
5	M5	N8	N16			RIGID	None	None	RIGID	Typical
6	M6	N7	N15			RIGID	None	None	RIGID	Typical
7	M9	N10	N18			RIGID	None	None	RIGID	Typical
8	M10	N9	N17			RIGID	None	None	RIGID	Typical
9	M11	N12	N20			RIGID	None	None	RIGID	Typical
10	M12	N11	N19			RIGID	None	None	RIGID	Typical
11	M13	N22	N26		90	Standoff Plate	Beam	BAR	Q235	Typical
12	M14	N21	N25		90	Standoff Plate	Beam	BAR	Q235	Typical
13	M15	N23	N27		90	Standoff Plate	Beam	BAR	Q235	Typical
14	M16	N24	N28		90	Standoff Plate	Beam	BAR	Q235	Typical
15	M17	N26	N32			Standoff Horiz...	Beam	Pipe	Q235	Typical
16	M18	N25	N31			Standoff Horiz...	Beam	Pipe	Q235	Typical
17	M19	N27	N33			Standoff Horiz...	Beam	Pipe	Q235	Typical
18	OVP	N28	N34			Standoff Horiz...	Beam	Pipe	Q235	Typical
19	M21	N32	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
20	M22	N34	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
21	M23	N31	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
22	M24	N33	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
23	M25	N31	N26			Standoff Diago...	Column	BAR	Q235	Typical
24	M26	N32	N25			Standoff Diago...	Column	BAR	Q235	Typical
25	M27	N33	N28			Standoff Diago...	Column	BAR	Q235	Typical
26	M28	N27	N34			Standoff Diago...	Column	BAR	Q235	Typical
27	M29	N29	N35			RIGID	None	None	RIGID	Typical
28	M30	N30	N36			RIGID	None	None	RIGID	Typical
29	MP4A	N39	N43			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
30	MP3A	N40	N44			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
31	MP2A	N41	N45			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
32	MP1A	N42	N46			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
33	M44	N25	N26			Standoff Vertical	Column	BAR	Q235	Typical
34	M45	N31	N32			Standoff Vertical	Column	BAR	Q235	Typical
35	M46	N33	N34			Standoff Vertical	Column	BAR	Q235	Typical
36	M47	N27	N28			Standoff Vertical	Column	BAR	Q235	Typical
37	M47B	N22	N60			RIGID	None	None	RIGID	Typical
38	M48A	N21	N59			RIGID	None	None	RIGID	Typical
39	M49A	N24	N62			RIGID	None	None	RIGID	Typical
40	M50A	N23	N61			RIGID	None	None	RIGID	Typical
41	M43	N36	N30			RIGID	None	None	RIGID	Typical
42	M44A	N35	N29			RIGID	None	None	RIGID	Typical
43	M43A	N55	N52			Tieback	Beam	Pipe	Q235	Typical
44	M44B	N38	N53			Tieback	Beam	Pipe	Q235	Typical

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-21.85	1.5
2	MP2A	My	-.011	1.5
3	MP2A	Mz	.013	1.5
4	MP2A	Y	-21.85	6.5
5	MP2A	My	-.011	6.5
6	MP2A	Mz	.013	6.5
7	MP2A	Y	-21.85	1.5
8	MP2A	My	-.011	1.5
9	MP2A	Mz	-.013	1.5
10	MP2A	Y	-21.85	6.5
11	MP2A	My	-.011	6.5
12	MP2A	Mz	-.013	6.5
13	MP3A	Y	-43.55	3
14	MP3A	My	-.022	3
15	MP3A	Mz	0	3
16	MP3A	Y	-43.55	5
17	MP3A	My	-.022	5
18	MP3A	Mz	0	5
19	OVP	Y	-32	1.25
20	OVP	My	0	1.25
21	OVP	Mz	0	1.25
22	MP1A	Y	-74.7	4
23	MP1A	My	.037	4
24	MP1A	Mz	0	4
25	MP2A	Y	-70.3	4
26	MP2A	My	.035	4
27	MP2A	Mz	0	4

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-91.2	1.5
2	MP2A	My	-.046	1.5
3	MP2A	Mz	.053	1.5
4	MP2A	Y	-91.2	6.5
5	MP2A	My	-.046	6.5
6	MP2A	Mz	.053	6.5
7	MP2A	Y	-91.2	1.5
8	MP2A	My	-.046	1.5
9	MP2A	Mz	-.053	1.5
10	MP2A	Y	-91.2	6.5
11	MP2A	My	-.046	6.5
12	MP2A	Mz	-.053	6.5
13	MP3A	Y	-53.805	3
14	MP3A	My	-.027	3
15	MP3A	Mz	0	3
16	MP3A	Y	-53.805	5
17	MP3A	My	-.027	5
18	MP3A	Mz	0	5
19	OVP	Y	-131.772	1.25
20	OVP	My	0	1.25
21	OVP	Mz	0	1.25
22	MP1A	Y	-68.318	4
23	MP1A	My	.034	4
24	MP1A	Mz	0	4
25	MP2A	Y	-65.161	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2A	My	.033	4
27	MP2A	Mz	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-146.826	1.5
3	MP2A	Mx	-.086	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	-146.826	6.5
6	MP2A	Mx	-.086	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	-146.826	1.5
9	MP2A	Mx	.086	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	-146.826	6.5
12	MP2A	Mx	.086	6.5
13	MP3A	X	0	3
14	MP3A	Z	-85.406	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	-85.406	5
18	MP3A	Mx	0	5
19	OVP	X	0	1.25
20	OVP	Z	-138.808	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	0	4
23	MP1A	Z	-67.961	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	-67.961	4
27	MP2A	Mx	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	67.193	1.5
2	MP2A	Z	-116.382	1.5
3	MP2A	Mx	-.101	1.5
4	MP2A	X	67.193	6.5
5	MP2A	Z	-116.382	6.5
6	MP2A	Mx	-.101	6.5
7	MP2A	X	67.193	1.5
8	MP2A	Z	-116.382	1.5
9	MP2A	Mx	.034	1.5
10	MP2A	X	67.193	6.5
11	MP2A	Z	-116.382	6.5
12	MP2A	Mx	.034	6.5
13	MP3A	X	36.207	3
14	MP3A	Z	-62.712	3
15	MP3A	Mx	-.018	3
16	MP3A	X	36.207	5
17	MP3A	Z	-62.712	5
18	MP3A	Mx	-.018	5
19	OVP	X	60.659	1.25
20	OVP	Z	-105.064	1.25
21	OVP	Mx	0	1.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP1A	X	31.164	4
23	MP1A	Z	-53.978	4
24	MP1A	Mx	.016	4
25	MP2A	X	30.653	4
26	MP2A	Z	-53.093	4
27	MP2A	Mx	.015	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	94.835	1.5
2	MP2A	Z	-54.753	1.5
3	MP2A	Mx	-.079	1.5
4	MP2A	X	94.835	6.5
5	MP2A	Z	-54.753	6.5
6	MP2A	Mx	-.079	6.5
7	MP2A	X	94.835	1.5
8	MP2A	Z	-54.753	1.5
9	MP2A	Mx	-.015	1.5
10	MP2A	X	94.835	6.5
11	MP2A	Z	-54.753	6.5
12	MP2A	Mx	-.015	6.5
13	MP3A	X	40.209	3
14	MP3A	Z	-23.214	3
15	MP3A	Mx	-.02	3
16	MP3A	X	40.209	5
17	MP3A	Z	-23.214	5
18	MP3A	Mx	-.02	5
19	OVP	X	97.491	1.25
20	OVP	Z	-56.286	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	44.221	4
23	MP1A	Z	-25.531	4
24	MP1A	Mx	.022	4
25	MP2A	X	41.565	4
26	MP2A	Z	-23.998	4
27	MP2A	Mx	.021	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	97.066	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.049	1.5
4	MP2A	X	97.066	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	-.049	6.5
7	MP2A	X	97.066	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.049	1.5
10	MP2A	X	97.066	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.049	6.5
13	MP3A	X	33.436	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.017	3
16	MP3A	X	33.436	5
17	MP3A	Z	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP3A	Mx	-.017	5
19	OVP	X	121.318	1.25
20	OVP	Z	0	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	45.429	4
23	MP1A	Z	0	4
24	MP1A	Mx	.023	4
25	MP2A	X	41.34	4
26	MP2A	Z	0	4
27	MP2A	Mx	.021	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	94.835	1.5
2	MP2A	Z	54.753	1.5
3	MP2A	Mx	-.015	1.5
4	MP2A	X	94.835	6.5
5	MP2A	Z	54.753	6.5
6	MP2A	Mx	-.015	6.5
7	MP2A	X	94.835	1.5
8	MP2A	Z	54.753	1.5
9	MP2A	Mx	-.079	1.5
10	MP2A	X	94.835	6.5
11	MP2A	Z	54.753	6.5
12	MP2A	Mx	-.079	6.5
13	MP3A	X	40.209	3
14	MP3A	Z	23.214	3
15	MP3A	Mx	-.02	3
16	MP3A	X	40.209	5
17	MP3A	Z	23.214	5
18	MP3A	Mx	-.02	5
19	OVP	X	120.211	1.25
20	OVP	Z	69.404	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	44.221	4
23	MP1A	Z	25.531	4
24	MP1A	Mx	.022	4
25	MP2A	X	41.565	4
26	MP2A	Z	23.998	4
27	MP2A	Mx	.021	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	67.193	1.5
2	MP2A	Z	116.382	1.5
3	MP2A	Mx	.034	1.5
4	MP2A	X	67.193	6.5
5	MP2A	Z	116.382	6.5
6	MP2A	Mx	.034	6.5
7	MP2A	X	67.193	1.5
8	MP2A	Z	116.382	1.5
9	MP2A	Mx	-.101	1.5
10	MP2A	X	67.193	6.5
11	MP2A	Z	116.382	6.5
12	MP2A	Mx	-.101	6.5
13	MP3A	X	36.207	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP3A	Z	62.712	3
15	MP3A	Mx	-.018	3
16	MP3A	X	36.207	5
17	MP3A	Z	62.712	5
18	MP3A	Mx	-.018	5
19	OVP	X	73.776	1.25
20	OVP	Z	127.784	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	31.164	4
23	MP1A	Z	53.978	4
24	MP1A	Mx	.016	4
25	MP2A	X	30.653	4
26	MP2A	Z	53.093	4
27	MP2A	Mx	.015	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	146.826	1.5
3	MP2A	Mx	.086	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	146.826	6.5
6	MP2A	Mx	.086	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	146.826	1.5
9	MP2A	Mx	-.086	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	146.826	6.5
12	MP2A	Mx	-.086	6.5
13	MP3A	X	0	3
14	MP3A	Z	85.406	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	85.406	5
18	MP3A	Mx	0	5
19	OVP	X	0	1.25
20	OVP	Z	138.808	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	0	4
23	MP1A	Z	67.961	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	67.961	4
27	MP2A	Mx	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-67.193	1.5
2	MP2A	Z	116.382	1.5
3	MP2A	Mx	.101	1.5
4	MP2A	X	-67.193	6.5
5	MP2A	Z	116.382	6.5
6	MP2A	Mx	.101	6.5
7	MP2A	X	-67.193	1.5
8	MP2A	Z	116.382	1.5
9	MP2A	Mx	-.034	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2A	X	-67.193	6.5
11	MP2A	Z	116.382	6.5
12	MP2A	Mx	-.034	6.5
13	MP3A	X	-36.207	3
14	MP3A	Z	62.712	3
15	MP3A	Mx	.018	3
16	MP3A	X	-36.207	5
17	MP3A	Z	62.712	5
18	MP3A	Mx	.018	5
19	OVP	X	-60.659	1.25
20	OVP	Z	105.064	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-31.164	4
23	MP1A	Z	53.978	4
24	MP1A	Mx	-.016	4
25	MP2A	X	-30.653	4
26	MP2A	Z	53.093	4
27	MP2A	Mx	-.015	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-94.835	1.5
2	MP2A	Z	54.753	1.5
3	MP2A	Mx	.079	1.5
4	MP2A	X	-94.835	6.5
5	MP2A	Z	54.753	6.5
6	MP2A	Mx	.079	6.5
7	MP2A	X	-94.835	1.5
8	MP2A	Z	54.753	1.5
9	MP2A	Mx	.015	1.5
10	MP2A	X	-94.835	6.5
11	MP2A	Z	54.753	6.5
12	MP2A	Mx	.015	6.5
13	MP3A	X	-40.209	3
14	MP3A	Z	23.214	3
15	MP3A	Mx	.02	3
16	MP3A	X	-40.209	5
17	MP3A	Z	23.214	5
18	MP3A	Mx	.02	5
19	OVP	X	-97.491	1.25
20	OVP	Z	56.286	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-44.221	4
23	MP1A	Z	25.531	4
24	MP1A	Mx	-.022	4
25	MP2A	X	-41.565	4
26	MP2A	Z	23.998	4
27	MP2A	Mx	-.021	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-97.066	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	.049	1.5
4	MP2A	X	-97.066	6.5
5	MP2A	Z	0	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.049	6.5
7	MP2A	X	-97.066	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	.049	1.5
10	MP2A	X	-97.066	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.049	6.5
13	MP3A	X	-33.436	3
14	MP3A	Z	0	3
15	MP3A	Mx	.017	3
16	MP3A	X	-33.436	5
17	MP3A	Z	0	5
18	MP3A	Mx	.017	5
19	OVP	X	-121.318	1.25
20	OVP	Z	0	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-45.429	4
23	MP1A	Z	0	4
24	MP1A	Mx	-.023	4
25	MP2A	X	-41.34	4
26	MP2A	Z	0	4
27	MP2A	Mx	-.021	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-94.835	1.5
2	MP2A	Z	-54.753	1.5
3	MP2A	Mx	.015	1.5
4	MP2A	X	-94.835	6.5
5	MP2A	Z	-54.753	6.5
6	MP2A	Mx	.015	6.5
7	MP2A	X	-94.835	1.5
8	MP2A	Z	-54.753	1.5
9	MP2A	Mx	.079	1.5
10	MP2A	X	-94.835	6.5
11	MP2A	Z	-54.753	6.5
12	MP2A	Mx	.079	6.5
13	MP3A	X	-40.209	3
14	MP3A	Z	-23.214	3
15	MP3A	Mx	.02	3
16	MP3A	X	-40.209	5
17	MP3A	Z	-23.214	5
18	MP3A	Mx	.02	5
19	OVP	X	-120.211	1.25
20	OVP	Z	-69.404	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-44.221	4
23	MP1A	Z	-25.531	4
24	MP1A	Mx	-.022	4
25	MP2A	X	-41.565	4
26	MP2A	Z	-23.998	4
27	MP2A	Mx	-.021	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-67.193	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2A	Z	-116.382	1.5
3	MP2A	Mx	-.034	1.5
4	MP2A	X	-67.193	6.5
5	MP2A	Z	-116.382	6.5
6	MP2A	Mx	-.034	6.5
7	MP2A	X	-67.193	1.5
8	MP2A	Z	-116.382	1.5
9	MP2A	Mx	.101	1.5
10	MP2A	X	-67.193	6.5
11	MP2A	Z	-116.382	6.5
12	MP2A	Mx	.101	6.5
13	MP3A	X	-36.207	3
14	MP3A	Z	-62.712	3
15	MP3A	Mx	.018	3
16	MP3A	X	-36.207	5
17	MP3A	Z	-62.712	5
18	MP3A	Mx	.018	5
19	OVP	X	-73.776	1.25
20	OVP	Z	-127.784	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-31.164	4
23	MP1A	Z	-53.978	4
24	MP1A	Mx	-.016	4
25	MP2A	X	-30.653	4
26	MP2A	Z	-53.093	4
27	MP2A	Mx	-.015	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-31.413	1.5
3	MP2A	Mx	-.018	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	-31.413	6.5
6	MP2A	Mx	-.018	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	-31.413	1.5
9	MP2A	Mx	.018	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	-31.413	6.5
12	MP2A	Mx	.018	6.5
13	MP3A	X	0	3
14	MP3A	Z	-18.869	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	-18.869	5
18	MP3A	Mx	0	5
19	OVP	X	0	1.25
20	OVP	Z	-31.038	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	0	4
23	MP1A	Z	-16.291	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	-16.291	4
27	MP2A	Mx	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	14.534	1.5
2	MP2A	Z	-25.174	1.5
3	MP2A	Mx	-.022	1.5
4	MP2A	X	14.534	6.5
5	MP2A	Z	-25.174	6.5
6	MP2A	Mx	-.022	6.5
7	MP2A	X	14.534	1.5
8	MP2A	Z	-25.174	1.5
9	MP2A	Mx	.007	1.5
10	MP2A	X	14.534	6.5
11	MP2A	Z	-25.174	6.5
12	MP2A	Mx	.007	6.5
13	MP3A	X	8.118	3
14	MP3A	Z	-14.061	3
15	MP3A	Mx	-.004	3
16	MP3A	X	8.118	5
17	MP3A	Z	-14.061	5
18	MP3A	Mx	-.004	5
19	OVP	X	13.794	1.25
20	OVP	Z	-23.892	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	7.55	4
23	MP1A	Z	-13.077	4
24	MP1A	Mx	.004	4
25	MP2A	X	7.443	4
26	MP2A	Z	-12.891	4
27	MP2A	Mx	.004	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	21.113	1.5
2	MP2A	Z	-12.19	1.5
3	MP2A	Mx	-.018	1.5
4	MP2A	X	21.113	6.5
5	MP2A	Z	-12.19	6.5
6	MP2A	Mx	-.018	6.5
7	MP2A	X	21.113	1.5
8	MP2A	Z	-12.19	1.5
9	MP2A	Mx	-.003	1.5
10	MP2A	X	21.113	6.5
11	MP2A	Z	-12.19	6.5
12	MP2A	Mx	-.003	6.5
13	MP3A	X	9.501	3
14	MP3A	Z	-5.486	3
15	MP3A	Mx	-.005	3
16	MP3A	X	9.501	5
17	MP3A	Z	-5.486	5
18	MP3A	Mx	-.005	5
19	OVP	X	22.399	1.25
20	OVP	Z	-12.932	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	11.013	4
23	MP1A	Z	-6.359	4
24	MP1A	Mx	.006	4
25	MP2A	X	10.456	4
26	MP2A	Z	-6.037	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2A	Mx	.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	22.035	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.011	1.5
4	MP2A	X	22.035	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	-.011	6.5
7	MP2A	X	22.035	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.011	1.5
10	MP2A	X	22.035	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.011	6.5
13	MP3A	X	8.338	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.004	3
16	MP3A	X	8.338	5
17	MP3A	Z	0	5
18	MP3A	Mx	-.004	5
19	OVP	X	27.588	1.25
20	OVP	Z	0	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	11.526	4
23	MP1A	Z	0	4
24	MP1A	Mx	.006	4
25	MP2A	X	10.668	4
26	MP2A	Z	0	4
27	MP2A	Mx	.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	21.113	1.5
2	MP2A	Z	12.19	1.5
3	MP2A	Mx	-.003	1.5
4	MP2A	X	21.113	6.5
5	MP2A	Z	12.19	6.5
6	MP2A	Mx	-.003	6.5
7	MP2A	X	21.113	1.5
8	MP2A	Z	12.19	1.5
9	MP2A	Mx	-.018	1.5
10	MP2A	X	21.113	6.5
11	MP2A	Z	12.19	6.5
12	MP2A	Mx	-.018	6.5
13	MP3A	X	9.501	3
14	MP3A	Z	5.486	3
15	MP3A	Mx	-.005	3
16	MP3A	X	9.501	5
17	MP3A	Z	5.486	5
18	MP3A	Mx	-.005	5
19	OVP	X	26.879	1.25
20	OVP	Z	15.519	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	11.013	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP1A	Z	6.359	4
24	MP1A	Mx	.006	4
25	MP2A	X	10.456	4
26	MP2A	Z	6.037	4
27	MP2A	Mx	.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	14.534	1.5
2	MP2A	Z	25.174	1.5
3	MP2A	Mx	.007	1.5
4	MP2A	X	14.534	6.5
5	MP2A	Z	25.174	6.5
6	MP2A	Mx	.007	6.5
7	MP2A	X	14.534	1.5
8	MP2A	Z	25.174	1.5
9	MP2A	Mx	-.022	1.5
10	MP2A	X	14.534	6.5
11	MP2A	Z	25.174	6.5
12	MP2A	Mx	-.022	6.5
13	MP3A	X	8.118	3
14	MP3A	Z	14.061	3
15	MP3A	Mx	-.004	3
16	MP3A	X	8.118	5
17	MP3A	Z	14.061	5
18	MP3A	Mx	-.004	5
19	OVP	X	16.381	1.25
20	OVP	Z	28.373	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	7.55	4
23	MP1A	Z	13.077	4
24	MP1A	Mx	.004	4
25	MP2A	X	7.443	4
26	MP2A	Z	12.891	4
27	MP2A	Mx	.004	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	31.413	1.5
3	MP2A	Mx	.018	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	31.413	6.5
6	MP2A	Mx	.018	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	31.413	1.5
9	MP2A	Mx	-.018	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	31.413	6.5
12	MP2A	Mx	-.018	6.5
13	MP3A	X	0	3
14	MP3A	Z	18.869	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	18.869	5
18	MP3A	Mx	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	OVP	X	0	1.25
20	OVP	Z	31.038	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	0	4
23	MP1A	Z	16.291	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	16.291	4
27	MP2A	Mx	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-14.534	1.5
2	MP2A	Z	25.174	1.5
3	MP2A	Mx	.022	1.5
4	MP2A	X	-14.534	6.5
5	MP2A	Z	25.174	6.5
6	MP2A	Mx	.022	6.5
7	MP2A	X	-14.534	1.5
8	MP2A	Z	25.174	1.5
9	MP2A	Mx	-.007	1.5
10	MP2A	X	-14.534	6.5
11	MP2A	Z	25.174	6.5
12	MP2A	Mx	-.007	6.5
13	MP3A	X	-8.118	3
14	MP3A	Z	14.061	3
15	MP3A	Mx	.004	3
16	MP3A	X	-8.118	5
17	MP3A	Z	14.061	5
18	MP3A	Mx	.004	5
19	OVP	X	-13.794	1.25
20	OVP	Z	23.892	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-7.55	4
23	MP1A	Z	13.077	4
24	MP1A	Mx	-.004	4
25	MP2A	X	-7.443	4
26	MP2A	Z	12.891	4
27	MP2A	Mx	-.004	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-21.113	1.5
2	MP2A	Z	12.19	1.5
3	MP2A	Mx	.018	1.5
4	MP2A	X	-21.113	6.5
5	MP2A	Z	12.19	6.5
6	MP2A	Mx	.018	6.5
7	MP2A	X	-21.113	1.5
8	MP2A	Z	12.19	1.5
9	MP2A	Mx	.003	1.5
10	MP2A	X	-21.113	6.5
11	MP2A	Z	12.19	6.5
12	MP2A	Mx	.003	6.5
13	MP3A	X	-9.501	3
14	MP3A	Z	5.486	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP3A	Mx	.005	3
16	MP3A	X	-9.501	5
17	MP3A	Z	5.486	5
18	MP3A	Mx	.005	5
19	OVP	X	-22.399	1.25
20	OVP	Z	12.932	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-11.013	4
23	MP1A	Z	6.359	4
24	MP1A	Mx	-.006	4
25	MP2A	X	-10.456	4
26	MP2A	Z	6.037	4
27	MP2A	Mx	-.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-22.035	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	.011	1.5
4	MP2A	X	-22.035	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	.011	6.5
7	MP2A	X	-22.035	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	.011	1.5
10	MP2A	X	-22.035	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.011	6.5
13	MP3A	X	-8.338	3
14	MP3A	Z	0	3
15	MP3A	Mx	.004	3
16	MP3A	X	-8.338	5
17	MP3A	Z	0	5
18	MP3A	Mx	.004	5
19	OVP	X	-27.588	1.25
20	OVP	Z	0	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-11.526	4
23	MP1A	Z	0	4
24	MP1A	Mx	-.006	4
25	MP2A	X	-10.668	4
26	MP2A	Z	0	4
27	MP2A	Mx	-.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-21.113	1.5
2	MP2A	Z	-12.19	1.5
3	MP2A	Mx	.003	1.5
4	MP2A	X	-21.113	6.5
5	MP2A	Z	-12.19	6.5
6	MP2A	Mx	.003	6.5
7	MP2A	X	-21.113	1.5
8	MP2A	Z	-12.19	1.5
9	MP2A	Mx	.018	1.5
10	MP2A	X	-21.113	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2A	Z	-12.19	6.5
12	MP2A	Mx	.018	6.5
13	MP3A	X	-9.501	3
14	MP3A	Z	-5.486	3
15	MP3A	Mx	.005	3
16	MP3A	X	-9.501	5
17	MP3A	Z	-5.486	5
18	MP3A	Mx	.005	5
19	OVP	X	-26.879	1.25
20	OVP	Z	-15.519	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-11.013	4
23	MP1A	Z	-6.359	4
24	MP1A	Mx	-.006	4
25	MP2A	X	-10.456	4
26	MP2A	Z	-6.037	4
27	MP2A	Mx	-.005	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-14.534	1.5
2	MP2A	Z	-25.174	1.5
3	MP2A	Mx	-.007	1.5
4	MP2A	X	-14.534	6.5
5	MP2A	Z	-25.174	6.5
6	MP2A	Mx	-.007	6.5
7	MP2A	X	-14.534	1.5
8	MP2A	Z	-25.174	1.5
9	MP2A	Mx	.022	1.5
10	MP2A	X	-14.534	6.5
11	MP2A	Z	-25.174	6.5
12	MP2A	Mx	.022	6.5
13	MP3A	X	-8.118	3
14	MP3A	Z	-14.061	3
15	MP3A	Mx	.004	3
16	MP3A	X	-8.118	5
17	MP3A	Z	-14.061	5
18	MP3A	Mx	.004	5
19	OVP	X	-16.381	1.25
20	OVP	Z	-28.373	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-7.55	4
23	MP1A	Z	-13.077	4
24	MP1A	Mx	-.004	4
25	MP2A	X	-7.443	4
26	MP2A	Z	-12.891	4
27	MP2A	Mx	-.004	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	-9.82	1.5
3	MP2A	Mx	-.006	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	-9.82	6.5
6	MP2A	Mx	-.006	6.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	0	1.5
8	MP2A	Z	-9.82	1.5
9	MP2A	Mx	.006	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	-9.82	6.5
12	MP2A	Mx	.006	6.5
13	MP3A	X	0	3
14	MP3A	Z	-5.712	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	-5.712	5
18	MP3A	Mx	0	5
19	OVP	X	0	1.25
20	OVP	Z	-9.284	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	0	4
23	MP1A	Z	-4.546	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	-4.546	4
27	MP2A	Mx	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.494	1.5
2	MP2A	Z	-7.784	1.5
3	MP2A	Mx	-.007	1.5
4	MP2A	X	4.494	6.5
5	MP2A	Z	-7.784	6.5
6	MP2A	Mx	-.007	6.5
7	MP2A	X	4.494	1.5
8	MP2A	Z	-7.784	1.5
9	MP2A	Mx	.002	1.5
10	MP2A	X	4.494	6.5
11	MP2A	Z	-7.784	6.5
12	MP2A	Mx	.002	6.5
13	MP3A	X	2.422	3
14	MP3A	Z	-4.194	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.422	5
17	MP3A	Z	-4.194	5
18	MP3A	Mx	-.001	5
19	OVP	X	4.057	1.25
20	OVP	Z	-7.027	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	2.084	4
23	MP1A	Z	-3.61	4
24	MP1A	Mx	.001	4
25	MP2A	X	2.05	4
26	MP2A	Z	-3.551	4
27	MP2A	Mx	.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	6.343	1.5
2	MP2A	Z	-3.662	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	Mx	-.005	1.5
4	MP2A	X	6.343	6.5
5	MP2A	Z	-3.662	6.5
6	MP2A	Mx	-.005	6.5
7	MP2A	X	6.343	1.5
8	MP2A	Z	-3.662	1.5
9	MP2A	Mx	-.001	1.5
10	MP2A	X	6.343	6.5
11	MP2A	Z	-3.662	6.5
12	MP2A	Mx	-.001	6.5
13	MP3A	X	2.689	3
14	MP3A	Z	-1.553	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.689	5
17	MP3A	Z	-1.553	5
18	MP3A	Mx	-.001	5
19	OVP	X	6.521	1.25
20	OVP	Z	-3.765	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	2.958	4
23	MP1A	Z	-1.708	4
24	MP1A	Mx	.001	4
25	MP2A	X	2.78	4
26	MP2A	Z	-1.605	4
27	MP2A	Mx	.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	6.492	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	-.003	1.5
4	MP2A	X	6.492	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	-.003	6.5
7	MP2A	X	6.492	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	-.003	1.5
10	MP2A	X	6.492	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	-.003	6.5
13	MP3A	X	2.236	3
14	MP3A	Z	0	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.236	5
17	MP3A	Z	0	5
18	MP3A	Mx	-.001	5
19	OVP	X	8.114	1.25
20	OVP	Z	0	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	3.038	4
23	MP1A	Z	0	4
24	MP1A	Mx	.002	4
25	MP2A	X	2.765	4
26	MP2A	Z	0	4
27	MP2A	Mx	.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	6.343	1.5
2	MP2A	Z	3.662	1.5
3	MP2A	Mx	-.001	1.5
4	MP2A	X	6.343	6.5
5	MP2A	Z	3.662	6.5
6	MP2A	Mx	-.001	6.5
7	MP2A	X	6.343	1.5
8	MP2A	Z	3.662	1.5
9	MP2A	Mx	-.005	1.5
10	MP2A	X	6.343	6.5
11	MP2A	Z	3.662	6.5
12	MP2A	Mx	-.005	6.5
13	MP3A	X	2.689	3
14	MP3A	Z	1.553	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.689	5
17	MP3A	Z	1.553	5
18	MP3A	Mx	-.001	5
19	OVP	X	8.04	1.25
20	OVP	Z	4.642	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	2.958	4
23	MP1A	Z	1.708	4
24	MP1A	Mx	.001	4
25	MP2A	X	2.78	4
26	MP2A	Z	1.605	4
27	MP2A	Mx	.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.494	1.5
2	MP2A	Z	7.784	1.5
3	MP2A	Mx	.002	1.5
4	MP2A	X	4.494	6.5
5	MP2A	Z	7.784	6.5
6	MP2A	Mx	.002	6.5
7	MP2A	X	4.494	1.5
8	MP2A	Z	7.784	1.5
9	MP2A	Mx	-.007	1.5
10	MP2A	X	4.494	6.5
11	MP2A	Z	7.784	6.5
12	MP2A	Mx	-.007	6.5
13	MP3A	X	2.422	3
14	MP3A	Z	4.194	3
15	MP3A	Mx	-.001	3
16	MP3A	X	2.422	5
17	MP3A	Z	4.194	5
18	MP3A	Mx	-.001	5
19	OVP	X	4.935	1.25
20	OVP	Z	8.547	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	2.084	4
23	MP1A	Z	3.61	4
24	MP1A	Mx	.001	4
25	MP2A	X	2.05	4
26	MP2A	Z	3.551	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2A	Mx	.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.5
2	MP2A	Z	9.82	1.5
3	MP2A	Mx	.006	1.5
4	MP2A	X	0	6.5
5	MP2A	Z	9.82	6.5
6	MP2A	Mx	.006	6.5
7	MP2A	X	0	1.5
8	MP2A	Z	9.82	1.5
9	MP2A	Mx	-.006	1.5
10	MP2A	X	0	6.5
11	MP2A	Z	9.82	6.5
12	MP2A	Mx	-.006	6.5
13	MP3A	X	0	3
14	MP3A	Z	5.712	3
15	MP3A	Mx	0	3
16	MP3A	X	0	5
17	MP3A	Z	5.712	5
18	MP3A	Mx	0	5
19	OVP	X	0	1.25
20	OVP	Z	9.284	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	0	4
23	MP1A	Z	4.546	4
24	MP1A	Mx	0	4
25	MP2A	X	0	4
26	MP2A	Z	4.546	4
27	MP2A	Mx	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.494	1.5
2	MP2A	Z	7.784	1.5
3	MP2A	Mx	.007	1.5
4	MP2A	X	-4.494	6.5
5	MP2A	Z	7.784	6.5
6	MP2A	Mx	.007	6.5
7	MP2A	X	-4.494	1.5
8	MP2A	Z	7.784	1.5
9	MP2A	Mx	-.002	1.5
10	MP2A	X	-4.494	6.5
11	MP2A	Z	7.784	6.5
12	MP2A	Mx	-.002	6.5
13	MP3A	X	-2.422	3
14	MP3A	Z	4.194	3
15	MP3A	Mx	.001	3
16	MP3A	X	-2.422	5
17	MP3A	Z	4.194	5
18	MP3A	Mx	.001	5
19	OVP	X	-4.057	1.25
20	OVP	Z	7.027	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-2.084	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP1A	Z	3.61	4
24	MP1A	Mx	-.001	4
25	MP2A	X	-2.05	4
26	MP2A	Z	3.551	4
27	MP2A	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-6.343	1.5
2	MP2A	Z	3.662	1.5
3	MP2A	Mx	.005	1.5
4	MP2A	X	-6.343	6.5
5	MP2A	Z	3.662	6.5
6	MP2A	Mx	.005	6.5
7	MP2A	X	-6.343	1.5
8	MP2A	Z	3.662	1.5
9	MP2A	Mx	.001	1.5
10	MP2A	X	-6.343	6.5
11	MP2A	Z	3.662	6.5
12	MP2A	Mx	.001	6.5
13	MP3A	X	-2.689	3
14	MP3A	Z	1.553	3
15	MP3A	Mx	.001	3
16	MP3A	X	-2.689	5
17	MP3A	Z	1.553	5
18	MP3A	Mx	.001	5
19	OVP	X	-6.521	1.25
20	OVP	Z	3.765	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-2.958	4
23	MP1A	Z	1.708	4
24	MP1A	Mx	-.001	4
25	MP2A	X	-2.78	4
26	MP2A	Z	1.605	4
27	MP2A	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-6.492	1.5
2	MP2A	Z	0	1.5
3	MP2A	Mx	.003	1.5
4	MP2A	X	-6.492	6.5
5	MP2A	Z	0	6.5
6	MP2A	Mx	.003	6.5
7	MP2A	X	-6.492	1.5
8	MP2A	Z	0	1.5
9	MP2A	Mx	.003	1.5
10	MP2A	X	-6.492	6.5
11	MP2A	Z	0	6.5
12	MP2A	Mx	.003	6.5
13	MP3A	X	-2.236	3
14	MP3A	Z	0	3
15	MP3A	Mx	.001	3
16	MP3A	X	-2.236	5
17	MP3A	Z	0	5
18	MP3A	Mx	.001	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	OVP	X	-8.114	1.25
20	OVP	Z	0	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-3.038	4
23	MP1A	Z	0	4
24	MP1A	Mx	-.002	4
25	MP2A	X	-2.765	4
26	MP2A	Z	0	4
27	MP2A	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-6.343	1.5
2	MP2A	Z	-3.662	1.5
3	MP2A	Mx	.001	1.5
4	MP2A	X	-6.343	6.5
5	MP2A	Z	-3.662	6.5
6	MP2A	Mx	.001	6.5
7	MP2A	X	-6.343	1.5
8	MP2A	Z	-3.662	1.5
9	MP2A	Mx	.005	1.5
10	MP2A	X	-6.343	6.5
11	MP2A	Z	-3.662	6.5
12	MP2A	Mx	.005	6.5
13	MP3A	X	-2.689	3
14	MP3A	Z	-1.553	3
15	MP3A	Mx	.001	3
16	MP3A	X	-2.689	5
17	MP3A	Z	-1.553	5
18	MP3A	Mx	.001	5
19	OVP	X	-8.04	1.25
20	OVP	Z	-4.642	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-2.958	4
23	MP1A	Z	-1.708	4
24	MP1A	Mx	-.001	4
25	MP2A	X	-2.78	4
26	MP2A	Z	-1.605	4
27	MP2A	Mx	-.001	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.494	1.5
2	MP2A	Z	-7.784	1.5
3	MP2A	Mx	-.002	1.5
4	MP2A	X	-4.494	6.5
5	MP2A	Z	-7.784	6.5
6	MP2A	Mx	-.002	6.5
7	MP2A	X	-4.494	1.5
8	MP2A	Z	-7.784	1.5
9	MP2A	Mx	.007	1.5
10	MP2A	X	-4.494	6.5
11	MP2A	Z	-7.784	6.5
12	MP2A	Mx	.007	6.5
13	MP3A	X	-2.422	3
14	MP3A	Z	-4.194	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP3A	Mx	.001	3
16	MP3A	X	-2.422	5
17	MP3A	Z	-4.194	5
18	MP3A	Mx	.001	5
19	OVP	X	-4.935	1.25
20	OVP	Z	-8.547	1.25
21	OVP	Mx	0	1.25
22	MP1A	X	-2.084	4
23	MP1A	Z	-3.61	4
24	MP1A	Mx	-.001	4
25	MP2A	X	-2.05	4
26	MP2A	Z	-3.551	4
27	MP2A	Mx	-.001	4

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%66

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%34

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.196	-9.196	0	%100
2	M2	Y	-9.196	-9.196	0	%100
3	M13	Y	-10.575	-10.575	0	%100
4	M14	Y	-10.575	-10.575	0	%100
5	M15	Y	-10.575	-10.575	0	%100
6	M16	Y	-10.575	-10.575	0	%100
7	M17	Y	-8.182	-8.182	0	%100
8	M18	Y	-8.182	-8.182	0	%100
9	M19	Y	-8.182	-8.182	0	%100
10	OVP	Y	-8.182	-8.182	0	%100
11	M21	Y	-10.575	-10.575	0	%100
12	M22	Y	-10.575	-10.575	0	%100
13	M23	Y	-10.575	-10.575	0	%100
14	M24	Y	-10.575	-10.575	0	%100
15	M25	Y	-4.887	-4.887	0	%100
16	M26	Y	-4.887	-4.887	0	%100
17	M27	Y	-4.887	-4.887	0	%100
18	M28	Y	-4.887	-4.887	0	%100
19	MP4A	Y	-8.182	-8.182	0	%100
20	MP3A	Y	-8.182	-8.182	0	%100
21	MP2A	Y	-8.182	-8.182	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
22	MP1A	Y	-8.182	-8.182	0	%100
23	M44	Y	-4.633	-4.633	0	%100
24	M45	Y	-4.633	-4.633	0	%100
25	M46	Y	-4.633	-4.633	0	%100
26	M47	Y	-4.633	-4.633	0	%100
27	M43A	Y	-8.182	-8.182	0	%100
28	M44B	Y	-8.182	-8.182	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-10.449	-10.449	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-10.449	-10.449	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-4.125	-4.125	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-4.125	-4.125	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-4.125	-4.125	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-4.125	-4.125	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-2.271	-2.271	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-2.271	-2.271	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-2.271	-2.271	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-2.271	-2.271	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.353	-2.353	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.353	-2.353	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.353	-2.353	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.353	-2.353	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-8.631	-8.631	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-8.631	-8.631	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-8.631	-8.631	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-8.631	-8.631	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-2.271	-2.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
47	M45	X	0	0	0	%100
48	M45	Z	-2.271	-2.271	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-2.271	-2.271	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-2.271	-2.271	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	-1.859	-1.859	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	-.962	-.962	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.918	3.918	0	%100
2	M1	Z	-6.787	-6.787	0	%100
3	M2	X	3.918	3.918	0	%100
4	M2	Z	-6.787	-6.787	0	%100
5	M13	X	.284	.284	0	%100
6	M13	Z	-.492	-.492	0	%100
7	M14	X	.284	.284	0	%100
8	M14	Z	-.492	-.492	0	%100
9	M15	X	.284	.284	0	%100
10	M15	Z	-.492	-.492	0	%100
11	M16	X	.284	.284	0	%100
12	M16	Z	-.492	-.492	0	%100
13	M17	X	.464	.464	0	%100
14	M17	Z	-.804	-.804	0	%100
15	M18	X	.464	.464	0	%100
16	M18	Z	-.804	-.804	0	%100
17	M19	X	3.262	3.262	0	%100
18	M19	Z	-5.65	-5.65	0	%100
19	OVP	X	3.262	3.262	0	%100
20	OVP	Z	-5.65	-5.65	0	%100
21	M21	X	.852	.852	0	%100
22	M21	Z	-1.475	-1.475	0	%100
23	M22	X	.852	.852	0	%100
24	M22	Z	-1.475	-1.475	0	%100
25	M23	X	.852	.852	0	%100
26	M23	Z	-1.475	-1.475	0	%100
27	M24	X	.852	.852	0	%100
28	M24	Z	-1.475	-1.475	0	%100
29	M25	X	.941	.941	0	%100
30	M25	Z	-1.629	-1.629	0	%100
31	M26	X	.941	.941	0	%100
32	M26	Z	-1.629	-1.629	0	%100
33	M27	X	1.353	1.353	0	%100
34	M27	Z	-2.344	-2.344	0	%100
35	M28	X	1.353	1.353	0	%100
36	M28	Z	-2.344	-2.344	0	%100
37	MP4A	X	4.316	4.316	0	%100
38	MP4A	Z	-7.475	-7.475	0	%100
39	MP3A	X	4.316	4.316	0	%100
40	MP3A	Z	-7.475	-7.475	0	%100
41	MP2A	X	4.316	4.316	0	%100
42	MP2A	Z	-7.475	-7.475	0	%100
43	MP1A	X	4.316	4.316	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
44	MP1A	Z	-7.475	-7.475	0	%100
45	M44	X	1.136	1.136	0	%100
46	M44	Z	-1.967	-1.967	0	%100
47	M45	X	1.136	1.136	0	%100
48	M45	Z	-1.967	-1.967	0	%100
49	M46	X	1.136	1.136	0	%100
50	M46	Z	-1.967	-1.967	0	%100
51	M47	X	1.136	1.136	0	%100
52	M47	Z	-1.967	-1.967	0	%100
53	M43A	X	3.08	3.08	0	%100
54	M43A	Z	-5.335	-5.335	0	%100
55	M44B	X	2.495	2.495	0	%100
56	M44B	Z	-4.322	-4.322	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.262	2.262	0	%100
2	M1	Z	-1.306	-1.306	0	%100
3	M2	X	2.262	2.262	0	%100
4	M2	Z	-1.306	-1.306	0	%100
5	M13	X	1.475	1.475	0	%100
6	M13	Z	-.852	-.852	0	%100
7	M14	X	1.475	1.475	0	%100
8	M14	Z	-.852	-.852	0	%100
9	M15	X	1.475	1.475	0	%100
10	M15	Z	-.852	-.852	0	%100
11	M16	X	1.475	1.475	0	%100
12	M16	Z	-.852	-.852	0	%100
13	M17	X	.113	.113	0	%100
14	M17	Z	-.065	-.065	0	%100
15	M18	X	.113	.113	0	%100
16	M18	Z	-.065	-.065	0	%100
17	M19	X	4.959	4.959	0	%100
18	M19	Z	-2.863	-2.863	0	%100
19	OVP	X	4.959	4.959	0	%100
20	OVP	Z	-2.863	-2.863	0	%100
21	M21	X	.492	.492	0	%100
22	M21	Z	-.284	-.284	0	%100
23	M22	X	.492	.492	0	%100
24	M22	Z	-.284	-.284	0	%100
25	M23	X	.492	.492	0	%100
26	M23	Z	-.284	-.284	0	%100
27	M24	X	.492	.492	0	%100
28	M24	Z	-.284	-.284	0	%100
29	M25	X	1.527	1.527	0	%100
30	M25	Z	-.882	-.882	0	%100
31	M26	X	1.527	1.527	0	%100
32	M26	Z	-.882	-.882	0	%100
33	M27	X	2.242	2.242	0	%100
34	M27	Z	-1.294	-1.294	0	%100
35	M28	X	2.242	2.242	0	%100
36	M28	Z	-1.294	-1.294	0	%100
37	MP4A	X	7.475	7.475	0	%100
38	MP4A	Z	-4.316	-4.316	0	%100
39	MP3A	X	7.475	7.475	0	%100
40	MP3A	Z	-4.316	-4.316	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
41	MP2A	X	7.475	7.475	0	%100
42	MP2A	Z	-4.316	-4.316	0	%100
43	MP1A	X	7.475	7.475	0	%100
44	MP1A	Z	-4.316	-4.316	0	%100
45	M44	X	1.967	1.967	0	%100
46	M44	Z	-1.136	-1.136	0	%100
47	M45	X	1.967	1.967	0	%100
48	M45	Z	-1.136	-1.136	0	%100
49	M46	X	1.967	1.967	0	%100
50	M46	Z	-1.136	-1.136	0	%100
51	M47	X	1.967	1.967	0	%100
52	M47	Z	-1.136	-1.136	0	%100
53	M43A	X	7.463	7.463	0	%100
54	M43A	Z	-4.309	-4.309	0	%100
55	M44B	X	7.227	7.227	0	%100
56	M44B	Z	-4.172	-4.172	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	2.271	2.271	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	2.271	2.271	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	2.271	2.271	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	2.271	2.271	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.53	2.53	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.53	2.53	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.53	2.53	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	2.53	2.53	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	2.117	2.117	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	2.117	2.117	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	2.117	2.117	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	2.117	2.117	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	8.631	8.631	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
38	MP4A	Z	0	0	0	%100
39	MP3A	X	8.631	8.631	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	8.631	8.631	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	8.631	8.631	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	2.271	2.271	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	2.271	2.271	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	2.271	2.271	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	2.271	2.271	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	6.772	6.772	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	7.67	7.67	0	%100
56	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.262	2.262	0	%100
2	M1	Z	1.306	1.306	0	%100
3	M2	X	2.262	2.262	0	%100
4	M2	Z	1.306	1.306	0	%100
5	M13	X	1.475	1.475	0	%100
6	M13	Z	.852	.852	0	%100
7	M14	X	1.475	1.475	0	%100
8	M14	Z	.852	.852	0	%100
9	M15	X	1.475	1.475	0	%100
10	M15	Z	.852	.852	0	%100
11	M16	X	1.475	1.475	0	%100
12	M16	Z	.852	.852	0	%100
13	M17	X	4.959	4.959	0	%100
14	M17	Z	2.863	2.863	0	%100
15	M18	X	4.959	4.959	0	%100
16	M18	Z	2.863	2.863	0	%100
17	M19	X	.113	.113	0	%100
18	M19	Z	.065	.065	0	%100
19	OVP	X	.113	.113	0	%100
20	OVP	Z	.065	.065	0	%100
21	M21	X	.492	.492	0	%100
22	M21	Z	.284	.284	0	%100
23	M22	X	.492	.492	0	%100
24	M22	Z	.284	.284	0	%100
25	M23	X	.492	.492	0	%100
26	M23	Z	.284	.284	0	%100
27	M24	X	.492	.492	0	%100
28	M24	Z	.284	.284	0	%100
29	M25	X	2.242	2.242	0	%100
30	M25	Z	1.294	1.294	0	%100
31	M26	X	2.242	2.242	0	%100
32	M26	Z	1.294	1.294	0	%100
33	M27	X	1.527	1.527	0	%100
34	M27	Z	.882	.882	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
35	M28	X	1.527	1.527	0	%100
36	M28	Z	.882	.882	0	%100
37	MP4A	X	7.475	7.475	0	%100
38	MP4A	Z	4.316	4.316	0	%100
39	MP3A	X	7.475	7.475	0	%100
40	MP3A	Z	4.316	4.316	0	%100
41	MP2A	X	7.475	7.475	0	%100
42	MP2A	Z	4.316	4.316	0	%100
43	MP1A	X	7.475	7.475	0	%100
44	MP1A	Z	4.316	4.316	0	%100
45	M44	X	1.967	1.967	0	%100
46	M44	Z	1.136	1.136	0	%100
47	M45	X	1.967	1.967	0	%100
48	M45	Z	1.136	1.136	0	%100
49	M46	X	1.967	1.967	0	%100
50	M46	Z	1.136	1.136	0	%100
51	M47	X	1.967	1.967	0	%100
52	M47	Z	1.136	1.136	0	%100
53	M43A	X	2.14	2.14	0	%100
54	M43A	Z	1.235	1.235	0	%100
55	M44B	X	3.153	3.153	0	%100
56	M44B	Z	1.82	1.82	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.918	3.918	0	%100
2	M1	Z	6.787	6.787	0	%100
3	M2	X	3.918	3.918	0	%100
4	M2	Z	6.787	6.787	0	%100
5	M13	X	.284	.284	0	%100
6	M13	Z	.492	.492	0	%100
7	M14	X	.284	.284	0	%100
8	M14	Z	.492	.492	0	%100
9	M15	X	.284	.284	0	%100
10	M15	Z	.492	.492	0	%100
11	M16	X	.284	.284	0	%100
12	M16	Z	.492	.492	0	%100
13	M17	X	3.262	3.262	0	%100
14	M17	Z	5.65	5.65	0	%100
15	M18	X	3.262	3.262	0	%100
16	M18	Z	5.65	5.65	0	%100
17	M19	X	.464	.464	0	%100
18	M19	Z	.804	.804	0	%100
19	OVP	X	.464	.464	0	%100
20	OVP	Z	.804	.804	0	%100
21	M21	X	.852	.852	0	%100
22	M21	Z	1.475	1.475	0	%100
23	M22	X	.852	.852	0	%100
24	M22	Z	1.475	1.475	0	%100
25	M23	X	.852	.852	0	%100
26	M23	Z	1.475	1.475	0	%100
27	M24	X	.852	.852	0	%100
28	M24	Z	1.475	1.475	0	%100
29	M25	X	1.353	1.353	0	%100
30	M25	Z	2.344	2.344	0	%100
31	M26	X	1.353	1.353	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
32	M26	Z	2.344	2.344	0	%100
33	M27	X	.941	.941	0	%100
34	M27	Z	1.629	1.629	0	%100
35	M28	X	.941	.941	0	%100
36	M28	Z	1.629	1.629	0	%100
37	MP4A	X	4.316	4.316	0	%100
38	MP4A	Z	7.475	7.475	0	%100
39	MP3A	X	4.316	4.316	0	%100
40	MP3A	Z	7.475	7.475	0	%100
41	MP2A	X	4.316	4.316	0	%100
42	MP2A	Z	7.475	7.475	0	%100
43	MP1A	X	4.316	4.316	0	%100
44	MP1A	Z	7.475	7.475	0	%100
45	M44	X	1.136	1.136	0	%100
46	M44	Z	1.967	1.967	0	%100
47	M45	X	1.136	1.136	0	%100
48	M45	Z	1.967	1.967	0	%100
49	M46	X	1.136	1.136	0	%100
50	M46	Z	1.967	1.967	0	%100
51	M47	X	1.136	1.136	0	%100
52	M47	Z	1.967	1.967	0	%100
53	M43A	X	.007	.007	0	%100
54	M43A	Z	.013	.013	0	%100
55	M44B	X	.143	.143	0	%100
56	M44B	Z	.248	.248	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	10.449	10.449	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	10.449	10.449	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	4.125	4.125	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	4.125	4.125	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	4.125	4.125	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	4.125	4.125	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	2.271	2.271	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	2.271	2.271	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	2.271	2.271	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	2.271	2.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
29	M25	X	0	0	0	%100
30	M25	Z	2.353	2.353	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.353	2.353	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.353	2.353	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.353	2.353	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	8.631	8.631	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	8.631	8.631	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	8.631	8.631	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	8.631	8.631	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	2.271	2.271	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	2.271	2.271	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	2.271	2.271	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	2.271	2.271	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	1.859	1.859	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	.962	.962	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.918	-3.918	0	%100
2	M1	Z	6.787	6.787	0	%100
3	M2	X	-3.918	-3.918	0	%100
4	M2	Z	6.787	6.787	0	%100
5	M13	X	-.284	-.284	0	%100
6	M13	Z	.492	.492	0	%100
7	M14	X	-.284	-.284	0	%100
8	M14	Z	.492	.492	0	%100
9	M15	X	-.284	-.284	0	%100
10	M15	Z	.492	.492	0	%100
11	M16	X	-.284	-.284	0	%100
12	M16	Z	.492	.492	0	%100
13	M17	X	-.464	-.464	0	%100
14	M17	Z	.804	.804	0	%100
15	M18	X	-.464	-.464	0	%100
16	M18	Z	.804	.804	0	%100
17	M19	X	-3.262	-3.262	0	%100
18	M19	Z	5.65	5.65	0	%100
19	OVP	X	-3.262	-3.262	0	%100
20	OVP	Z	5.65	5.65	0	%100
21	M21	X	-.852	-.852	0	%100
22	M21	Z	1.475	1.475	0	%100
23	M22	X	-.852	-.852	0	%100
24	M22	Z	1.475	1.475	0	%100
25	M23	X	-.852	-.852	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
26	M23	Z	1.475	1.475	0	%100
27	M24	X	-.852	-.852	0	%100
28	M24	Z	1.475	1.475	0	%100
29	M25	X	-.941	-.941	0	%100
30	M25	Z	1.629	1.629	0	%100
31	M26	X	-.941	-.941	0	%100
32	M26	Z	1.629	1.629	0	%100
33	M27	X	-1.353	-1.353	0	%100
34	M27	Z	2.344	2.344	0	%100
35	M28	X	-1.353	-1.353	0	%100
36	M28	Z	2.344	2.344	0	%100
37	MP4A	X	-4.316	-4.316	0	%100
38	MP4A	Z	7.475	7.475	0	%100
39	MP3A	X	-4.316	-4.316	0	%100
40	MP3A	Z	7.475	7.475	0	%100
41	MP2A	X	-4.316	-4.316	0	%100
42	MP2A	Z	7.475	7.475	0	%100
43	MP1A	X	-4.316	-4.316	0	%100
44	MP1A	Z	7.475	7.475	0	%100
45	M44	X	-1.136	-1.136	0	%100
46	M44	Z	1.967	1.967	0	%100
47	M45	X	-1.136	-1.136	0	%100
48	M45	Z	1.967	1.967	0	%100
49	M46	X	-1.136	-1.136	0	%100
50	M46	Z	1.967	1.967	0	%100
51	M47	X	-1.136	-1.136	0	%100
52	M47	Z	1.967	1.967	0	%100
53	M43A	X	-3.08	-3.08	0	%100
54	M43A	Z	5.335	5.335	0	%100
55	M44B	X	-2.495	-2.495	0	%100
56	M44B	Z	4.322	4.322	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.262	-2.262	0	%100
2	M1	Z	1.306	1.306	0	%100
3	M2	X	-2.262	-2.262	0	%100
4	M2	Z	1.306	1.306	0	%100
5	M13	X	-1.475	-1.475	0	%100
6	M13	Z	.852	.852	0	%100
7	M14	X	-1.475	-1.475	0	%100
8	M14	Z	.852	.852	0	%100
9	M15	X	-1.475	-1.475	0	%100
10	M15	Z	.852	.852	0	%100
11	M16	X	-1.475	-1.475	0	%100
12	M16	Z	.852	.852	0	%100
13	M17	X	-.113	-.113	0	%100
14	M17	Z	.065	.065	0	%100
15	M18	X	-.113	-.113	0	%100
16	M18	Z	.065	.065	0	%100
17	M19	X	-4.959	-4.959	0	%100
18	M19	Z	2.863	2.863	0	%100
19	OVP	X	-4.959	-4.959	0	%100
20	OVP	Z	2.863	2.863	0	%100
21	M21	X	-.492	-.492	0	%100
22	M21	Z	.284	.284	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
23	M22	X	-.492	-.492	0	%100
24	M22	Z	.284	.284	0	%100
25	M23	X	-.492	-.492	0	%100
26	M23	Z	.284	.284	0	%100
27	M24	X	-.492	-.492	0	%100
28	M24	Z	.284	.284	0	%100
29	M25	X	-1.527	-1.527	0	%100
30	M25	Z	.882	.882	0	%100
31	M26	X	-1.527	-1.527	0	%100
32	M26	Z	.882	.882	0	%100
33	M27	X	-2.242	-2.242	0	%100
34	M27	Z	1.294	1.294	0	%100
35	M28	X	-2.242	-2.242	0	%100
36	M28	Z	1.294	1.294	0	%100
37	MP4A	X	-7.475	-7.475	0	%100
38	MP4A	Z	4.316	4.316	0	%100
39	MP3A	X	-7.475	-7.475	0	%100
40	MP3A	Z	4.316	4.316	0	%100
41	MP2A	X	-7.475	-7.475	0	%100
42	MP2A	Z	4.316	4.316	0	%100
43	MP1A	X	-7.475	-7.475	0	%100
44	MP1A	Z	4.316	4.316	0	%100
45	M44	X	-1.967	-1.967	0	%100
46	M44	Z	1.136	1.136	0	%100
47	M45	X	-1.967	-1.967	0	%100
48	M45	Z	1.136	1.136	0	%100
49	M46	X	-1.967	-1.967	0	%100
50	M46	Z	1.136	1.136	0	%100
51	M47	X	-1.967	-1.967	0	%100
52	M47	Z	1.136	1.136	0	%100
53	M43A	X	-7.463	-7.463	0	%100
54	M43A	Z	4.309	4.309	0	%100
55	M44B	X	-7.227	-7.227	0	%100
56	M44B	Z	4.172	4.172	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-2.271	-2.271	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-2.271	-2.271	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-2.271	-2.271	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-2.271	-2.271	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-2.53	-2.53	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-2.53	-2.53	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.53	-2.53	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	-2.53	-2.53	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-2.117	-2.117	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-2.117	-2.117	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-2.117	-2.117	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-2.117	-2.117	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-8.631	-8.631	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-8.631	-8.631	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-8.631	-8.631	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-8.631	-8.631	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-2.271	-2.271	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-2.271	-2.271	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-2.271	-2.271	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-2.271	-2.271	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	-6.772	-6.772	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	-7.67	-7.67	0	%100
56	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.262	-2.262	0	%100
2	M1	Z	-1.306	-1.306	0	%100
3	M2	X	-2.262	-2.262	0	%100
4	M2	Z	-1.306	-1.306	0	%100
5	M13	X	-1.475	-1.475	0	%100
6	M13	Z	-.852	-.852	0	%100
7	M14	X	-1.475	-1.475	0	%100
8	M14	Z	-.852	-.852	0	%100
9	M15	X	-1.475	-1.475	0	%100
10	M15	Z	-.852	-.852	0	%100
11	M16	X	-1.475	-1.475	0	%100
12	M16	Z	-.852	-.852	0	%100
13	M17	X	-4.959	-4.959	0	%100
14	M17	Z	-2.863	-2.863	0	%100
15	M18	X	-4.959	-4.959	0	%100
16	M18	Z	-2.863	-2.863	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
17	M19	X	-.113	-.113	0	%100
18	M19	Z	-.065	-.065	0	%100
19	OVP	X	-.113	-.113	0	%100
20	OVP	Z	-.065	-.065	0	%100
21	M21	X	-.492	-.492	0	%100
22	M21	Z	-.284	-.284	0	%100
23	M22	X	-.492	-.492	0	%100
24	M22	Z	-.284	-.284	0	%100
25	M23	X	-.492	-.492	0	%100
26	M23	Z	-.284	-.284	0	%100
27	M24	X	-.492	-.492	0	%100
28	M24	Z	-.284	-.284	0	%100
29	M25	X	-2.242	-2.242	0	%100
30	M25	Z	-1.294	-1.294	0	%100
31	M26	X	-2.242	-2.242	0	%100
32	M26	Z	-1.294	-1.294	0	%100
33	M27	X	-1.527	-1.527	0	%100
34	M27	Z	-.882	-.882	0	%100
35	M28	X	-1.527	-1.527	0	%100
36	M28	Z	-.882	-.882	0	%100
37	MP4A	X	-7.475	-7.475	0	%100
38	MP4A	Z	-4.316	-4.316	0	%100
39	MP3A	X	-7.475	-7.475	0	%100
40	MP3A	Z	-4.316	-4.316	0	%100
41	MP2A	X	-7.475	-7.475	0	%100
42	MP2A	Z	-4.316	-4.316	0	%100
43	MP1A	X	-7.475	-7.475	0	%100
44	MP1A	Z	-4.316	-4.316	0	%100
45	M44	X	-1.967	-1.967	0	%100
46	M44	Z	-1.136	-1.136	0	%100
47	M45	X	-1.967	-1.967	0	%100
48	M45	Z	-1.136	-1.136	0	%100
49	M46	X	-1.967	-1.967	0	%100
50	M46	Z	-1.136	-1.136	0	%100
51	M47	X	-1.967	-1.967	0	%100
52	M47	Z	-1.136	-1.136	0	%100
53	M43A	X	-2.14	-2.14	0	%100
54	M43A	Z	-1.235	-1.235	0	%100
55	M44B	X	-3.153	-3.153	0	%100
56	M44B	Z	-1.82	-1.82	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.918	-3.918	0	%100
2	M1	Z	-6.787	-6.787	0	%100
3	M2	X	-3.918	-3.918	0	%100
4	M2	Z	-6.787	-6.787	0	%100
5	M13	X	-.284	-.284	0	%100
6	M13	Z	-.492	-.492	0	%100
7	M14	X	-.284	-.284	0	%100
8	M14	Z	-.492	-.492	0	%100
9	M15	X	-.284	-.284	0	%100
10	M15	Z	-.492	-.492	0	%100
11	M16	X	-.284	-.284	0	%100
12	M16	Z	-.492	-.492	0	%100
13	M17	X	-3.262	-3.262	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
14	M17	Z	-5.65	-5.65	0	%100
15	M18	X	-3.262	-3.262	0	%100
16	M18	Z	-5.65	-5.65	0	%100
17	M19	X	-.464	-.464	0	%100
18	M19	Z	-.804	-.804	0	%100
19	OVP	X	-.464	-.464	0	%100
20	OVP	Z	-.804	-.804	0	%100
21	M21	X	-.852	-.852	0	%100
22	M21	Z	-1.475	-1.475	0	%100
23	M22	X	-.852	-.852	0	%100
24	M22	Z	-1.475	-1.475	0	%100
25	M23	X	-.852	-.852	0	%100
26	M23	Z	-1.475	-1.475	0	%100
27	M24	X	-.852	-.852	0	%100
28	M24	Z	-1.475	-1.475	0	%100
29	M25	X	-1.353	-1.353	0	%100
30	M25	Z	-2.344	-2.344	0	%100
31	M26	X	-1.353	-1.353	0	%100
32	M26	Z	-2.344	-2.344	0	%100
33	M27	X	-.941	-.941	0	%100
34	M27	Z	-1.629	-1.629	0	%100
35	M28	X	-.941	-.941	0	%100
36	M28	Z	-1.629	-1.629	0	%100
37	MP4A	X	-4.316	-4.316	0	%100
38	MP4A	Z	-7.475	-7.475	0	%100
39	MP3A	X	-4.316	-4.316	0	%100
40	MP3A	Z	-7.475	-7.475	0	%100
41	MP2A	X	-4.316	-4.316	0	%100
42	MP2A	Z	-7.475	-7.475	0	%100
43	MP1A	X	-4.316	-4.316	0	%100
44	MP1A	Z	-7.475	-7.475	0	%100
45	M44	X	-1.136	-1.136	0	%100
46	M44	Z	-1.967	-1.967	0	%100
47	M45	X	-1.136	-1.136	0	%100
48	M45	Z	-1.967	-1.967	0	%100
49	M46	X	-1.136	-1.136	0	%100
50	M46	Z	-1.967	-1.967	0	%100
51	M47	X	-1.136	-1.136	0	%100
52	M47	Z	-1.967	-1.967	0	%100
53	M43A	X	-.007	-.007	0	%100
54	M43A	Z	-.013	-.013	0	%100
55	M44B	X	-.143	-.143	0	%100
56	M44B	Z	-.248	-.248	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-4.183	-4.183	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-4.183	-4.183	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-1.745	-1.745	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.745	-1.745	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.745	-1.745	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-1.745	-1.745	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.73	-1.73	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.73	-1.73	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.73	-1.73	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.73	-1.73	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.016	-2.016	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.016	-2.016	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.016	-2.016	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.016	-2.016	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-3.845	-3.845	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-3.845	-3.845	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-3.845	-3.845	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-3.845	-3.845	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-2.126	-2.126	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-2.126	-2.126	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-2.126	-2.126	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-2.126	-2.126	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	-.808	-.808	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	-.428	-.428	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.569	1.569	0	%100
2	M1	Z	-2.717	-2.717	0	%100
3	M2	X	1.569	1.569	0	%100
4	M2	Z	-2.717	-2.717	0	%100
5	M13	X	.216	.216	0	%100
6	M13	Z	-.374	-.374	0	%100
7	M14	X	.216	.216	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
8	M14	Z	-.374	-.374	0	%100
9	M15	X	.216	.216	0	%100
10	M15	Z	-.374	-.374	0	%100
11	M16	X	.216	.216	0	%100
12	M16	Z	-.374	-.374	0	%100
13	M17	X	.196	.196	0	%100
14	M17	Z	-.34	-.34	0	%100
15	M18	X	.196	.196	0	%100
16	M18	Z	-.34	-.34	0	%100
17	M19	X	1.38	1.38	0	%100
18	M19	Z	-2.39	-2.39	0	%100
19	OVP	X	1.38	1.38	0	%100
20	OVP	Z	-2.39	-2.39	0	%100
21	M21	X	.649	.649	0	%100
22	M21	Z	-1.123	-1.123	0	%100
23	M22	X	.649	.649	0	%100
24	M22	Z	-1.123	-1.123	0	%100
25	M23	X	.649	.649	0	%100
26	M23	Z	-1.123	-1.123	0	%100
27	M24	X	.649	.649	0	%100
28	M24	Z	-1.123	-1.123	0	%100
29	M25	X	.806	.806	0	%100
30	M25	Z	-1.396	-1.396	0	%100
31	M26	X	.806	.806	0	%100
32	M26	Z	-1.396	-1.396	0	%100
33	M27	X	1.159	1.159	0	%100
34	M27	Z	-2.008	-2.008	0	%100
35	M28	X	1.159	1.159	0	%100
36	M28	Z	-2.008	-2.008	0	%100
37	MP4A	X	1.923	1.923	0	%100
38	MP4A	Z	-3.33	-3.33	0	%100
39	MP3A	X	1.923	1.923	0	%100
40	MP3A	Z	-3.33	-3.33	0	%100
41	MP2A	X	1.923	1.923	0	%100
42	MP2A	Z	-3.33	-3.33	0	%100
43	MP1A	X	1.923	1.923	0	%100
44	MP1A	Z	-3.33	-3.33	0	%100
45	M44	X	1.063	1.063	0	%100
46	M44	Z	-1.841	-1.841	0	%100
47	M45	X	1.063	1.063	0	%100
48	M45	Z	-1.841	-1.841	0	%100
49	M46	X	1.063	1.063	0	%100
50	M46	Z	-1.841	-1.841	0	%100
51	M47	X	1.063	1.063	0	%100
52	M47	Z	-1.841	-1.841	0	%100
53	M43A	X	1.339	1.339	0	%100
54	M43A	Z	-2.319	-2.319	0	%100
55	M44B	X	1.112	1.112	0	%100
56	M44B	Z	-1.925	-1.925	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.906	.906	0	%100
2	M1	Z	-.523	-.523	0	%100
3	M2	X	.906	.906	0	%100
4	M2	Z	-.523	-.523	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
5	M13	X	1.123	1.123	0	%100
6	M13	Z	-.649	-.649	0	%100
7	M14	X	1.123	1.123	0	%100
8	M14	Z	-.649	-.649	0	%100
9	M15	X	1.123	1.123	0	%100
10	M15	Z	-.649	-.649	0	%100
11	M16	X	1.123	1.123	0	%100
12	M16	Z	-.649	-.649	0	%100
13	M17	X	.048	.048	0	%100
14	M17	Z	-.028	-.028	0	%100
15	M18	X	.048	.048	0	%100
16	M18	Z	-.028	-.028	0	%100
17	M19	X	2.098	2.098	0	%100
18	M19	Z	-1.211	-1.211	0	%100
19	OVP	X	2.098	2.098	0	%100
20	OVP	Z	-1.211	-1.211	0	%100
21	M21	X	.374	.374	0	%100
22	M21	Z	-.216	-.216	0	%100
23	M22	X	.374	.374	0	%100
24	M22	Z	-.216	-.216	0	%100
25	M23	X	.374	.374	0	%100
26	M23	Z	-.216	-.216	0	%100
27	M24	X	.374	.374	0	%100
28	M24	Z	-.216	-.216	0	%100
29	M25	X	1.309	1.309	0	%100
30	M25	Z	-.755	-.755	0	%100
31	M26	X	1.309	1.309	0	%100
32	M26	Z	-.755	-.755	0	%100
33	M27	X	1.921	1.921	0	%100
34	M27	Z	-1.109	-1.109	0	%100
35	M28	X	1.921	1.921	0	%100
36	M28	Z	-1.109	-1.109	0	%100
37	MP4A	X	3.33	3.33	0	%100
38	MP4A	Z	-1.923	-1.923	0	%100
39	MP3A	X	3.33	3.33	0	%100
40	MP3A	Z	-1.923	-1.923	0	%100
41	MP2A	X	3.33	3.33	0	%100
42	MP2A	Z	-1.923	-1.923	0	%100
43	MP1A	X	3.33	3.33	0	%100
44	MP1A	Z	-1.923	-1.923	0	%100
45	M44	X	1.841	1.841	0	%100
46	M44	Z	-1.063	-1.063	0	%100
47	M45	X	1.841	1.841	0	%100
48	M45	Z	-1.063	-1.063	0	%100
49	M46	X	1.841	1.841	0	%100
50	M46	Z	-1.063	-1.063	0	%100
51	M47	X	1.841	1.841	0	%100
52	M47	Z	-1.063	-1.063	0	%100
53	M43A	X	3.244	3.244	0	%100
54	M43A	Z	-1.873	-1.873	0	%100
55	M44B	X	3.219	3.219	0	%100
56	M44B	Z	-1.859	-1.859	0	%100

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.73	1.73	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.73	1.73	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	1.73	1.73	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.73	1.73	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	1.07	1.07	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	1.07	1.07	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	1.07	1.07	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	1.07	1.07	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.814	1.814	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.814	1.814	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.814	1.814	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.814	1.814	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	3.845	3.845	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	3.845	3.845	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	3.845	3.845	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	3.845	3.845	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	2.126	2.126	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	2.126	2.126	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	2.126	2.126	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	2.126	2.126	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	2.944	2.944	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	3.417	3.417	0	%100
56	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.906	.906	0	%100
2	M1	Z	.523	.523	0	%100
3	M2	X	.906	.906	0	%100
4	M2	Z	.523	.523	0	%100
5	M13	X	1.123	1.123	0	%100
6	M13	Z	.649	.649	0	%100
7	M14	X	1.123	1.123	0	%100
8	M14	Z	.649	.649	0	%100
9	M15	X	1.123	1.123	0	%100
10	M15	Z	.649	.649	0	%100
11	M16	X	1.123	1.123	0	%100
12	M16	Z	.649	.649	0	%100
13	M17	X	2.098	2.098	0	%100
14	M17	Z	1.211	1.211	0	%100
15	M18	X	2.098	2.098	0	%100
16	M18	Z	1.211	1.211	0	%100
17	M19	X	.048	.048	0	%100
18	M19	Z	.028	.028	0	%100
19	OVP	X	.048	.048	0	%100
20	OVP	Z	.028	.028	0	%100
21	M21	X	.374	.374	0	%100
22	M21	Z	.216	.216	0	%100
23	M22	X	.374	.374	0	%100
24	M22	Z	.216	.216	0	%100
25	M23	X	.374	.374	0	%100
26	M23	Z	.216	.216	0	%100
27	M24	X	.374	.374	0	%100
28	M24	Z	.216	.216	0	%100
29	M25	X	1.921	1.921	0	%100
30	M25	Z	1.109	1.109	0	%100
31	M26	X	1.921	1.921	0	%100
32	M26	Z	1.109	1.109	0	%100
33	M27	X	1.309	1.309	0	%100
34	M27	Z	.755	.755	0	%100
35	M28	X	1.309	1.309	0	%100
36	M28	Z	.755	.755	0	%100
37	MP4A	X	3.33	3.33	0	%100
38	MP4A	Z	1.923	1.923	0	%100
39	MP3A	X	3.33	3.33	0	%100
40	MP3A	Z	1.923	1.923	0	%100
41	MP2A	X	3.33	3.33	0	%100
42	MP2A	Z	1.923	1.923	0	%100
43	MP1A	X	3.33	3.33	0	%100
44	MP1A	Z	1.923	1.923	0	%100
45	M44	X	1.841	1.841	0	%100
46	M44	Z	1.063	1.063	0	%100
47	M45	X	1.841	1.841	0	%100
48	M45	Z	1.063	1.063	0	%100
49	M46	X	1.841	1.841	0	%100
50	M46	Z	1.063	1.063	0	%100
51	M47	X	1.841	1.841	0	%100
52	M47	Z	1.063	1.063	0	%100
53	M43A	X	.93	.93	0	%100
54	M43A	Z	.537	.537	0	%100
55	M44B	X	1.404	1.404	0	%100
56	M44B	Z	.811	.811	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.569	1.569	0	%100
2	M1	Z	2.717	2.717	0	%100
3	M2	X	1.569	1.569	0	%100
4	M2	Z	2.717	2.717	0	%100
5	M13	X	.216	.216	0	%100
6	M13	Z	.374	.374	0	%100
7	M14	X	.216	.216	0	%100
8	M14	Z	.374	.374	0	%100
9	M15	X	.216	.216	0	%100
10	M15	Z	.374	.374	0	%100
11	M16	X	.216	.216	0	%100
12	M16	Z	.374	.374	0	%100
13	M17	X	1.38	1.38	0	%100
14	M17	Z	2.39	2.39	0	%100
15	M18	X	1.38	1.38	0	%100
16	M18	Z	2.39	2.39	0	%100
17	M19	X	.196	.196	0	%100
18	M19	Z	.34	.34	0	%100
19	OVP	X	.196	.196	0	%100
20	OVP	Z	.34	.34	0	%100
21	M21	X	.649	.649	0	%100
22	M21	Z	1.123	1.123	0	%100
23	M22	X	.649	.649	0	%100
24	M22	Z	1.123	1.123	0	%100
25	M23	X	.649	.649	0	%100
26	M23	Z	1.123	1.123	0	%100
27	M24	X	.649	.649	0	%100
28	M24	Z	1.123	1.123	0	%100
29	M25	X	1.159	1.159	0	%100
30	M25	Z	2.008	2.008	0	%100
31	M26	X	1.159	1.159	0	%100
32	M26	Z	2.008	2.008	0	%100
33	M27	X	.806	.806	0	%100
34	M27	Z	1.396	1.396	0	%100
35	M28	X	.806	.806	0	%100
36	M28	Z	1.396	1.396	0	%100
37	MP4A	X	1.923	1.923	0	%100
38	MP4A	Z	3.33	3.33	0	%100
39	MP3A	X	1.923	1.923	0	%100
40	MP3A	Z	3.33	3.33	0	%100
41	MP2A	X	1.923	1.923	0	%100
42	MP2A	Z	3.33	3.33	0	%100
43	MP1A	X	1.923	1.923	0	%100
44	MP1A	Z	3.33	3.33	0	%100
45	M44	X	1.063	1.063	0	%100
46	M44	Z	1.841	1.841	0	%100
47	M45	X	1.063	1.063	0	%100
48	M45	Z	1.841	1.841	0	%100
49	M46	X	1.063	1.063	0	%100
50	M46	Z	1.841	1.841	0	%100
51	M47	X	1.063	1.063	0	%100
52	M47	Z	1.841	1.841	0	%100
53	M43A	X	.003	.003	0	%100
54	M43A	Z	.005	.005	0	%100
55	M44B	X	.064	.064	0	%100
56	M44B	Z	.111	.111	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	4.183	4.183	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	4.183	4.183	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	1.745	1.745	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.745	1.745	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.745	1.745	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	1.745	1.745	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.73	1.73	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.73	1.73	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.73	1.73	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.73	1.73	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	2.016	2.016	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	2.016	2.016	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	2.016	2.016	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	2.016	2.016	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	3.845	3.845	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	3.845	3.845	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	3.845	3.845	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	3.845	3.845	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	2.126	2.126	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	2.126	2.126	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	2.126	2.126	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	2.126	2.126	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	.808	.808	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	.428	.428	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.569	-1.569	0	%100
2	M1	Z	2.717	2.717	0	%100
3	M2	X	-1.569	-1.569	0	%100
4	M2	Z	2.717	2.717	0	%100
5	M13	X	-.216	-.216	0	%100
6	M13	Z	.374	.374	0	%100
7	M14	X	-.216	-.216	0	%100
8	M14	Z	.374	.374	0	%100
9	M15	X	-.216	-.216	0	%100
10	M15	Z	.374	.374	0	%100
11	M16	X	-.216	-.216	0	%100
12	M16	Z	.374	.374	0	%100
13	M17	X	-.196	-.196	0	%100
14	M17	Z	.34	.34	0	%100
15	M18	X	-.196	-.196	0	%100
16	M18	Z	.34	.34	0	%100
17	M19	X	-1.38	-1.38	0	%100
18	M19	Z	2.39	2.39	0	%100
19	OVP	X	-1.38	-1.38	0	%100
20	OVP	Z	2.39	2.39	0	%100
21	M21	X	-.649	-.649	0	%100
22	M21	Z	1.123	1.123	0	%100
23	M22	X	-.649	-.649	0	%100
24	M22	Z	1.123	1.123	0	%100
25	M23	X	-.649	-.649	0	%100
26	M23	Z	1.123	1.123	0	%100
27	M24	X	-.649	-.649	0	%100
28	M24	Z	1.123	1.123	0	%100
29	M25	X	-.806	-.806	0	%100
30	M25	Z	1.396	1.396	0	%100
31	M26	X	-.806	-.806	0	%100
32	M26	Z	1.396	1.396	0	%100
33	M27	X	-1.159	-1.159	0	%100
34	M27	Z	2.008	2.008	0	%100
35	M28	X	-1.159	-1.159	0	%100
36	M28	Z	2.008	2.008	0	%100
37	MP4A	X	-1.923	-1.923	0	%100
38	MP4A	Z	3.33	3.33	0	%100
39	MP3A	X	-1.923	-1.923	0	%100
40	MP3A	Z	3.33	3.33	0	%100
41	MP2A	X	-1.923	-1.923	0	%100
42	MP2A	Z	3.33	3.33	0	%100
43	MP1A	X	-1.923	-1.923	0	%100
44	MP1A	Z	3.33	3.33	0	%100
45	M44	X	-1.063	-1.063	0	%100
46	M44	Z	1.841	1.841	0	%100
47	M45	X	-1.063	-1.063	0	%100
48	M45	Z	1.841	1.841	0	%100
49	M46	X	-1.063	-1.063	0	%100
50	M46	Z	1.841	1.841	0	%100
51	M47	X	-1.063	-1.063	0	%100
52	M47	Z	1.841	1.841	0	%100
53	M43A	X	-1.339	-1.339	0	%100
54	M43A	Z	2.319	2.319	0	%100
55	M44B	X	-1.112	-1.112	0	%100
56	M44B	Z	1.925	1.925	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.906	-.906	0	%100
2	M1	Z	.523	.523	0	%100
3	M2	X	-.906	-.906	0	%100
4	M2	Z	.523	.523	0	%100
5	M13	X	-1.123	-1.123	0	%100
6	M13	Z	.649	.649	0	%100
7	M14	X	-1.123	-1.123	0	%100
8	M14	Z	.649	.649	0	%100
9	M15	X	-1.123	-1.123	0	%100
10	M15	Z	.649	.649	0	%100
11	M16	X	-1.123	-1.123	0	%100
12	M16	Z	.649	.649	0	%100
13	M17	X	-.048	-.048	0	%100
14	M17	Z	.028	.028	0	%100
15	M18	X	-.048	-.048	0	%100
16	M18	Z	.028	.028	0	%100
17	M19	X	-2.098	-2.098	0	%100
18	M19	Z	1.211	1.211	0	%100
19	OVP	X	-2.098	-2.098	0	%100
20	OVP	Z	1.211	1.211	0	%100
21	M21	X	-.374	-.374	0	%100
22	M21	Z	.216	.216	0	%100
23	M22	X	-.374	-.374	0	%100
24	M22	Z	.216	.216	0	%100
25	M23	X	-.374	-.374	0	%100
26	M23	Z	.216	.216	0	%100
27	M24	X	-.374	-.374	0	%100
28	M24	Z	.216	.216	0	%100
29	M25	X	-1.309	-1.309	0	%100
30	M25	Z	.755	.755	0	%100
31	M26	X	-1.309	-1.309	0	%100
32	M26	Z	.755	.755	0	%100
33	M27	X	-1.921	-1.921	0	%100
34	M27	Z	1.109	1.109	0	%100
35	M28	X	-1.921	-1.921	0	%100
36	M28	Z	1.109	1.109	0	%100
37	MP4A	X	-3.33	-3.33	0	%100
38	MP4A	Z	1.923	1.923	0	%100
39	MP3A	X	-3.33	-3.33	0	%100
40	MP3A	Z	1.923	1.923	0	%100
41	MP2A	X	-3.33	-3.33	0	%100
42	MP2A	Z	1.923	1.923	0	%100
43	MP1A	X	-3.33	-3.33	0	%100
44	MP1A	Z	1.923	1.923	0	%100
45	M44	X	-1.841	-1.841	0	%100
46	M44	Z	1.063	1.063	0	%100
47	M45	X	-1.841	-1.841	0	%100
48	M45	Z	1.063	1.063	0	%100
49	M46	X	-1.841	-1.841	0	%100
50	M46	Z	1.063	1.063	0	%100
51	M47	X	-1.841	-1.841	0	%100
52	M47	Z	1.063	1.063	0	%100
53	M43A	X	-3.244	-3.244	0	%100
54	M43A	Z	1.873	1.873	0	%100
55	M44B	X	-3.219	-3.219	0	%100
56	M44B	Z	1.859	1.859	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.73	-1.73	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.73	-1.73	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.73	-1.73	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.73	-1.73	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-1.07	-1.07	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-1.07	-1.07	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-1.07	-1.07	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	-1.07	-1.07	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.814	-1.814	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.814	-1.814	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.814	-1.814	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.814	-1.814	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-3.845	-3.845	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-3.845	-3.845	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-3.845	-3.845	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-3.845	-3.845	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-2.126	-2.126	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-2.126	-2.126	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-2.126	-2.126	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-2.126	-2.126	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	-2.944	-2.944	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	-3.417	-3.417	0	%100
56	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.906	-.906	0	%100
2	M1	Z	-.523	-.523	0	%100
3	M2	X	-.906	-.906	0	%100
4	M2	Z	-.523	-.523	0	%100
5	M13	X	-1.123	-1.123	0	%100
6	M13	Z	-.649	-.649	0	%100
7	M14	X	-1.123	-1.123	0	%100
8	M14	Z	-.649	-.649	0	%100
9	M15	X	-1.123	-1.123	0	%100
10	M15	Z	-.649	-.649	0	%100
11	M16	X	-1.123	-1.123	0	%100
12	M16	Z	-.649	-.649	0	%100
13	M17	X	-2.098	-2.098	0	%100
14	M17	Z	-1.211	-1.211	0	%100
15	M18	X	-2.098	-2.098	0	%100
16	M18	Z	-1.211	-1.211	0	%100
17	M19	X	-.048	-.048	0	%100
18	M19	Z	-.028	-.028	0	%100
19	OVP	X	-.048	-.048	0	%100
20	OVP	Z	-.028	-.028	0	%100
21	M21	X	-.374	-.374	0	%100
22	M21	Z	-.216	-.216	0	%100
23	M22	X	-.374	-.374	0	%100
24	M22	Z	-.216	-.216	0	%100
25	M23	X	-.374	-.374	0	%100
26	M23	Z	-.216	-.216	0	%100
27	M24	X	-.374	-.374	0	%100
28	M24	Z	-.216	-.216	0	%100
29	M25	X	-1.921	-1.921	0	%100
30	M25	Z	-1.109	-1.109	0	%100
31	M26	X	-1.921	-1.921	0	%100
32	M26	Z	-1.109	-1.109	0	%100
33	M27	X	-1.309	-1.309	0	%100
34	M27	Z	-.755	-.755	0	%100
35	M28	X	-1.309	-1.309	0	%100
36	M28	Z	-.755	-.755	0	%100
37	MP4A	X	-3.33	-3.33	0	%100
38	MP4A	Z	-1.923	-1.923	0	%100
39	MP3A	X	-3.33	-3.33	0	%100
40	MP3A	Z	-1.923	-1.923	0	%100
41	MP2A	X	-3.33	-3.33	0	%100
42	MP2A	Z	-1.923	-1.923	0	%100
43	MP1A	X	-3.33	-3.33	0	%100
44	MP1A	Z	-1.923	-1.923	0	%100
45	M44	X	-1.841	-1.841	0	%100
46	M44	Z	-1.063	-1.063	0	%100
47	M45	X	-1.841	-1.841	0	%100
48	M45	Z	-1.063	-1.063	0	%100
49	M46	X	-1.841	-1.841	0	%100
50	M46	Z	-1.063	-1.063	0	%100
51	M47	X	-1.841	-1.841	0	%100
52	M47	Z	-1.063	-1.063	0	%100
53	M43A	X	-.93	-.93	0	%100
54	M43A	Z	-.537	-.537	0	%100
55	M44B	X	-1.404	-1.404	0	%100
56	M44B	Z	-.811	-.811	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.569	-1.569	0	%100
2	M1	Z	-2.717	-2.717	0	%100
3	M2	X	-1.569	-1.569	0	%100
4	M2	Z	-2.717	-2.717	0	%100
5	M13	X	-.216	-.216	0	%100
6	M13	Z	-.374	-.374	0	%100
7	M14	X	-.216	-.216	0	%100
8	M14	Z	-.374	-.374	0	%100
9	M15	X	-.216	-.216	0	%100
10	M15	Z	-.374	-.374	0	%100
11	M16	X	-.216	-.216	0	%100
12	M16	Z	-.374	-.374	0	%100
13	M17	X	-1.38	-1.38	0	%100
14	M17	Z	-2.39	-2.39	0	%100
15	M18	X	-1.38	-1.38	0	%100
16	M18	Z	-2.39	-2.39	0	%100
17	M19	X	-.196	-.196	0	%100
18	M19	Z	-.34	-.34	0	%100
19	OVP	X	-.196	-.196	0	%100
20	OVP	Z	-.34	-.34	0	%100
21	M21	X	-.649	-.649	0	%100
22	M21	Z	-1.123	-1.123	0	%100
23	M22	X	-.649	-.649	0	%100
24	M22	Z	-1.123	-1.123	0	%100
25	M23	X	-.649	-.649	0	%100
26	M23	Z	-1.123	-1.123	0	%100
27	M24	X	-.649	-.649	0	%100
28	M24	Z	-1.123	-1.123	0	%100
29	M25	X	-1.159	-1.159	0	%100
30	M25	Z	-2.008	-2.008	0	%100
31	M26	X	-1.159	-1.159	0	%100
32	M26	Z	-2.008	-2.008	0	%100
33	M27	X	-.806	-.806	0	%100
34	M27	Z	-1.396	-1.396	0	%100
35	M28	X	-.806	-.806	0	%100
36	M28	Z	-1.396	-1.396	0	%100
37	MP4A	X	-1.923	-1.923	0	%100
38	MP4A	Z	-3.33	-3.33	0	%100
39	MP3A	X	-1.923	-1.923	0	%100
40	MP3A	Z	-3.33	-3.33	0	%100
41	MP2A	X	-1.923	-1.923	0	%100
42	MP2A	Z	-3.33	-3.33	0	%100
43	MP1A	X	-1.923	-1.923	0	%100
44	MP1A	Z	-3.33	-3.33	0	%100
45	M44	X	-1.063	-1.063	0	%100
46	M44	Z	-1.841	-1.841	0	%100
47	M45	X	-1.063	-1.063	0	%100
48	M45	Z	-1.841	-1.841	0	%100
49	M46	X	-1.063	-1.063	0	%100
50	M46	Z	-1.841	-1.841	0	%100
51	M47	X	-1.063	-1.063	0	%100
52	M47	Z	-1.841	-1.841	0	%100
53	M43A	X	-.003	-.003	0	%100
54	M43A	Z	-.005	-.005	0	%100
55	M44B	X	-.064	-.064	0	%100
56	M44B	Z	-.111	-.111	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-.699	-.699	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.699	-.699	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-.276	-.276	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.276	-.276	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-.276	-.276	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-.276	-.276	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.152	-.152	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-.152	-.152	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.152	-.152	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.152	-.152	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.157	-.157	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.157	-.157	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.157	-.157	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.157	-.157	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.577	-.577	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-.577	-.577	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-.577	-.577	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-.577	-.577	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-.152	-.152	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-.152	-.152	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-.152	-.152	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-.152	-.152	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	-.124	-.124	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	-.064	-.064	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.262	.262	0	%100
2	M1	Z	-.454	-.454	0	%100
3	M2	X	.262	.262	0	%100
4	M2	Z	-.454	-.454	0	%100
5	M13	X	.019	.019	0	%100
6	M13	Z	-.033	-.033	0	%100
7	M14	X	.019	.019	0	%100
8	M14	Z	-.033	-.033	0	%100
9	M15	X	.019	.019	0	%100
10	M15	Z	-.033	-.033	0	%100
11	M16	X	.019	.019	0	%100
12	M16	Z	-.033	-.033	0	%100
13	M17	X	.031	.031	0	%100
14	M17	Z	-.054	-.054	0	%100
15	M18	X	.031	.031	0	%100
16	M18	Z	-.054	-.054	0	%100
17	M19	X	.218	.218	0	%100
18	M19	Z	-.378	-.378	0	%100
19	OVP	X	.218	.218	0	%100
20	OVP	Z	-.378	-.378	0	%100
21	M21	X	.057	.057	0	%100
22	M21	Z	-.099	-.099	0	%100
23	M22	X	.057	.057	0	%100
24	M22	Z	-.099	-.099	0	%100
25	M23	X	.057	.057	0	%100
26	M23	Z	-.099	-.099	0	%100
27	M24	X	.057	.057	0	%100
28	M24	Z	-.099	-.099	0	%100
29	M25	X	.063	.063	0	%100
30	M25	Z	-.109	-.109	0	%100
31	M26	X	.063	.063	0	%100
32	M26	Z	-.109	-.109	0	%100
33	M27	X	.091	.091	0	%100
34	M27	Z	-.157	-.157	0	%100
35	M28	X	.091	.091	0	%100
36	M28	Z	-.157	-.157	0	%100
37	MP4A	X	.289	.289	0	%100
38	MP4A	Z	-.5	-.5	0	%100
39	MP3A	X	.289	.289	0	%100
40	MP3A	Z	-.5	-.5	0	%100
41	MP2A	X	.289	.289	0	%100
42	MP2A	Z	-.5	-.5	0	%100
43	MP1A	X	.289	.289	0	%100
44	MP1A	Z	-.5	-.5	0	%100
45	M44	X	.076	.076	0	%100
46	M44	Z	-.132	-.132	0	%100
47	M45	X	.076	.076	0	%100
48	M45	Z	-.132	-.132	0	%100
49	M46	X	.076	.076	0	%100
50	M46	Z	-.132	-.132	0	%100
51	M47	X	.076	.076	0	%100
52	M47	Z	-.132	-.132	0	%100
53	M43A	X	.206	.206	0	%100
54	M43A	Z	-.357	-.357	0	%100
55	M44B	X	.167	.167	0	%100
56	M44B	Z	-.289	-.289	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.151	.151	0	%100
2	M1	Z	-.087	-.087	0	%100
3	M2	X	.151	.151	0	%100
4	M2	Z	-.087	-.087	0	%100
5	M13	X	.099	.099	0	%100
6	M13	Z	-.057	-.057	0	%100
7	M14	X	.099	.099	0	%100
8	M14	Z	-.057	-.057	0	%100
9	M15	X	.099	.099	0	%100
10	M15	Z	-.057	-.057	0	%100
11	M16	X	.099	.099	0	%100
12	M16	Z	-.057	-.057	0	%100
13	M17	X	.008	.008	0	%100
14	M17	Z	-.004	-.004	0	%100
15	M18	X	.008	.008	0	%100
16	M18	Z	-.004	-.004	0	%100
17	M19	X	.332	.332	0	%100
18	M19	Z	-.191	-.191	0	%100
19	OVP	X	.332	.332	0	%100
20	OVP	Z	-.191	-.191	0	%100
21	M21	X	.033	.033	0	%100
22	M21	Z	-.019	-.019	0	%100
23	M22	X	.033	.033	0	%100
24	M22	Z	-.019	-.019	0	%100
25	M23	X	.033	.033	0	%100
26	M23	Z	-.019	-.019	0	%100
27	M24	X	.033	.033	0	%100
28	M24	Z	-.019	-.019	0	%100
29	M25	X	.102	.102	0	%100
30	M25	Z	-.059	-.059	0	%100
31	M26	X	.102	.102	0	%100
32	M26	Z	-.059	-.059	0	%100
33	M27	X	.15	.15	0	%100
34	M27	Z	-.087	-.087	0	%100
35	M28	X	.15	.15	0	%100
36	M28	Z	-.087	-.087	0	%100
37	MP4A	X	.5	.5	0	%100
38	MP4A	Z	-.289	-.289	0	%100
39	MP3A	X	.5	.5	0	%100
40	MP3A	Z	-.289	-.289	0	%100
41	MP2A	X	.5	.5	0	%100
42	MP2A	Z	-.289	-.289	0	%100
43	MP1A	X	.5	.5	0	%100
44	MP1A	Z	-.289	-.289	0	%100
45	M44	X	.132	.132	0	%100
46	M44	Z	-.076	-.076	0	%100
47	M45	X	.132	.132	0	%100
48	M45	Z	-.076	-.076	0	%100
49	M46	X	.132	.132	0	%100
50	M46	Z	-.076	-.076	0	%100
51	M47	X	.132	.132	0	%100
52	M47	Z	-.076	-.076	0	%100
53	M43A	X	.499	.499	0	%100
54	M43A	Z	-.288	-.288	0	%100
55	M44B	X	.483	.483	0	%100
56	M44B	Z	-.279	-.279	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	.152	.152	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.152	.152	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	.152	.152	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.152	.152	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.169	.169	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.169	.169	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.169	.169	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	.169	.169	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	.142	.142	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.142	.142	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	.142	.142	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.142	.142	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	.577	.577	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	.577	.577	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	.577	.577	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	.577	.577	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	.152	.152	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	.152	.152	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	.152	.152	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	.152	.152	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	.453	.453	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	.513	.513	0	%100
56	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.151	.151	0	%100
2	M1	Z	.087	.087	0	%100
3	M2	X	.151	.151	0	%100
4	M2	Z	.087	.087	0	%100
5	M13	X	.099	.099	0	%100
6	M13	Z	.057	.057	0	%100
7	M14	X	.099	.099	0	%100
8	M14	Z	.057	.057	0	%100
9	M15	X	.099	.099	0	%100
10	M15	Z	.057	.057	0	%100
11	M16	X	.099	.099	0	%100
12	M16	Z	.057	.057	0	%100
13	M17	X	.332	.332	0	%100
14	M17	Z	.191	.191	0	%100
15	M18	X	.332	.332	0	%100
16	M18	Z	.191	.191	0	%100
17	M19	X	.008	.008	0	%100
18	M19	Z	.004	.004	0	%100
19	OVP	X	.008	.008	0	%100
20	OVP	Z	.004	.004	0	%100
21	M21	X	.033	.033	0	%100
22	M21	Z	.019	.019	0	%100
23	M22	X	.033	.033	0	%100
24	M22	Z	.019	.019	0	%100
25	M23	X	.033	.033	0	%100
26	M23	Z	.019	.019	0	%100
27	M24	X	.033	.033	0	%100
28	M24	Z	.019	.019	0	%100
29	M25	X	.15	.15	0	%100
30	M25	Z	.087	.087	0	%100
31	M26	X	.15	.15	0	%100
32	M26	Z	.087	.087	0	%100
33	M27	X	.102	.102	0	%100
34	M27	Z	.059	.059	0	%100
35	M28	X	.102	.102	0	%100
36	M28	Z	.059	.059	0	%100
37	MP4A	X	.5	.5	0	%100
38	MP4A	Z	.289	.289	0	%100
39	MP3A	X	.5	.5	0	%100
40	MP3A	Z	.289	.289	0	%100
41	MP2A	X	.5	.5	0	%100
42	MP2A	Z	.289	.289	0	%100
43	MP1A	X	.5	.5	0	%100
44	MP1A	Z	.289	.289	0	%100
45	M44	X	.132	.132	0	%100
46	M44	Z	.076	.076	0	%100
47	M45	X	.132	.132	0	%100
48	M45	Z	.076	.076	0	%100
49	M46	X	.132	.132	0	%100
50	M46	Z	.076	.076	0	%100
51	M47	X	.132	.132	0	%100
52	M47	Z	.076	.076	0	%100
53	M43A	X	.143	.143	0	%100
54	M43A	Z	.083	.083	0	%100
55	M44B	X	.211	.211	0	%100
56	M44B	Z	.122	.122	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.262	.262	0	%100
2	M1	Z	.454	.454	0	%100
3	M2	X	.262	.262	0	%100
4	M2	Z	.454	.454	0	%100
5	M13	X	.019	.019	0	%100
6	M13	Z	.033	.033	0	%100
7	M14	X	.019	.019	0	%100
8	M14	Z	.033	.033	0	%100
9	M15	X	.019	.019	0	%100
10	M15	Z	.033	.033	0	%100
11	M16	X	.019	.019	0	%100
12	M16	Z	.033	.033	0	%100
13	M17	X	.218	.218	0	%100
14	M17	Z	.378	.378	0	%100
15	M18	X	.218	.218	0	%100
16	M18	Z	.378	.378	0	%100
17	M19	X	.031	.031	0	%100
18	M19	Z	.054	.054	0	%100
19	OVP	X	.031	.031	0	%100
20	OVP	Z	.054	.054	0	%100
21	M21	X	.057	.057	0	%100
22	M21	Z	.099	.099	0	%100
23	M22	X	.057	.057	0	%100
24	M22	Z	.099	.099	0	%100
25	M23	X	.057	.057	0	%100
26	M23	Z	.099	.099	0	%100
27	M24	X	.057	.057	0	%100
28	M24	Z	.099	.099	0	%100
29	M25	X	.091	.091	0	%100
30	M25	Z	.157	.157	0	%100
31	M26	X	.091	.091	0	%100
32	M26	Z	.157	.157	0	%100
33	M27	X	.063	.063	0	%100
34	M27	Z	.109	.109	0	%100
35	M28	X	.063	.063	0	%100
36	M28	Z	.109	.109	0	%100
37	MP4A	X	.289	.289	0	%100
38	MP4A	Z	.5	.5	0	%100
39	MP3A	X	.289	.289	0	%100
40	MP3A	Z	.5	.5	0	%100
41	MP2A	X	.289	.289	0	%100
42	MP2A	Z	.5	.5	0	%100
43	MP1A	X	.289	.289	0	%100
44	MP1A	Z	.5	.5	0	%100
45	M44	X	.076	.076	0	%100
46	M44	Z	.132	.132	0	%100
47	M45	X	.076	.076	0	%100
48	M45	Z	.132	.132	0	%100
49	M46	X	.076	.076	0	%100
50	M46	Z	.132	.132	0	%100
51	M47	X	.076	.076	0	%100
52	M47	Z	.132	.132	0	%100
53	M43A	X	.000484	.000484	0	%100
54	M43A	Z	.000838	.000838	0	%100
55	M44B	X	.01	.01	0	%100
56	M44B	Z	.017	.017	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.699	.699	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.699	.699	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	.276	.276	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.276	.276	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.276	.276	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	.276	.276	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.152	.152	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	.152	.152	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.152	.152	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.152	.152	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.157	.157	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.157	.157	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.157	.157	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.157	.157	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.577	.577	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.577	.577	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	.577	.577	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	.577	.577	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	.152	.152	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	.152	.152	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	.152	.152	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.152	.152	0	%100
53	M43A	X	0	0	0	%100
54	M43A	Z	.124	.124	0	%100
55	M44B	X	0	0	0	%100
56	M44B	Z	.064	.064	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.262	-.262	0	%100
2	M1	Z	.454	.454	0	%100
3	M2	X	-.262	-.262	0	%100
4	M2	Z	.454	.454	0	%100
5	M13	X	-.019	-.019	0	%100
6	M13	Z	.033	.033	0	%100
7	M14	X	-.019	-.019	0	%100
8	M14	Z	.033	.033	0	%100
9	M15	X	-.019	-.019	0	%100
10	M15	Z	.033	.033	0	%100
11	M16	X	-.019	-.019	0	%100
12	M16	Z	.033	.033	0	%100
13	M17	X	-.031	-.031	0	%100
14	M17	Z	.054	.054	0	%100
15	M18	X	-.031	-.031	0	%100
16	M18	Z	.054	.054	0	%100
17	M19	X	-.218	-.218	0	%100
18	M19	Z	.378	.378	0	%100
19	OVP	X	-.218	-.218	0	%100
20	OVP	Z	.378	.378	0	%100
21	M21	X	-.057	-.057	0	%100
22	M21	Z	.099	.099	0	%100
23	M22	X	-.057	-.057	0	%100
24	M22	Z	.099	.099	0	%100
25	M23	X	-.057	-.057	0	%100
26	M23	Z	.099	.099	0	%100
27	M24	X	-.057	-.057	0	%100
28	M24	Z	.099	.099	0	%100
29	M25	X	-.063	-.063	0	%100
30	M25	Z	.109	.109	0	%100
31	M26	X	-.063	-.063	0	%100
32	M26	Z	.109	.109	0	%100
33	M27	X	-.091	-.091	0	%100
34	M27	Z	.157	.157	0	%100
35	M28	X	-.091	-.091	0	%100
36	M28	Z	.157	.157	0	%100
37	MP4A	X	-.289	-.289	0	%100
38	MP4A	Z	.5	.5	0	%100
39	MP3A	X	-.289	-.289	0	%100
40	MP3A	Z	.5	.5	0	%100
41	MP2A	X	-.289	-.289	0	%100
42	MP2A	Z	.5	.5	0	%100
43	MP1A	X	-.289	-.289	0	%100
44	MP1A	Z	.5	.5	0	%100
45	M44	X	-.076	-.076	0	%100
46	M44	Z	.132	.132	0	%100
47	M45	X	-.076	-.076	0	%100
48	M45	Z	.132	.132	0	%100
49	M46	X	-.076	-.076	0	%100
50	M46	Z	.132	.132	0	%100
51	M47	X	-.076	-.076	0	%100
52	M47	Z	.132	.132	0	%100
53	M43A	X	-.206	-.206	0	%100
54	M43A	Z	.357	.357	0	%100
55	M44B	X	-.167	-.167	0	%100
56	M44B	Z	.289	.289	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.151	-.151	0	%100
2	M1	Z	.087	.087	0	%100
3	M2	X	-.151	-.151	0	%100
4	M2	Z	.087	.087	0	%100
5	M13	X	-.099	-.099	0	%100
6	M13	Z	.057	.057	0	%100
7	M14	X	-.099	-.099	0	%100
8	M14	Z	.057	.057	0	%100
9	M15	X	-.099	-.099	0	%100
10	M15	Z	.057	.057	0	%100
11	M16	X	-.099	-.099	0	%100
12	M16	Z	.057	.057	0	%100
13	M17	X	-.008	-.008	0	%100
14	M17	Z	.004	.004	0	%100
15	M18	X	-.008	-.008	0	%100
16	M18	Z	.004	.004	0	%100
17	M19	X	-.332	-.332	0	%100
18	M19	Z	.191	.191	0	%100
19	OVP	X	-.332	-.332	0	%100
20	OVP	Z	.191	.191	0	%100
21	M21	X	-.033	-.033	0	%100
22	M21	Z	.019	.019	0	%100
23	M22	X	-.033	-.033	0	%100
24	M22	Z	.019	.019	0	%100
25	M23	X	-.033	-.033	0	%100
26	M23	Z	.019	.019	0	%100
27	M24	X	-.033	-.033	0	%100
28	M24	Z	.019	.019	0	%100
29	M25	X	-.102	-.102	0	%100
30	M25	Z	.059	.059	0	%100
31	M26	X	-.102	-.102	0	%100
32	M26	Z	.059	.059	0	%100
33	M27	X	-.15	-.15	0	%100
34	M27	Z	.087	.087	0	%100
35	M28	X	-.15	-.15	0	%100
36	M28	Z	.087	.087	0	%100
37	MP4A	X	-.5	-.5	0	%100
38	MP4A	Z	.289	.289	0	%100
39	MP3A	X	-.5	-.5	0	%100
40	MP3A	Z	.289	.289	0	%100
41	MP2A	X	-.5	-.5	0	%100
42	MP2A	Z	.289	.289	0	%100
43	MP1A	X	-.5	-.5	0	%100
44	MP1A	Z	.289	.289	0	%100
45	M44	X	-.132	-.132	0	%100
46	M44	Z	.076	.076	0	%100
47	M45	X	-.132	-.132	0	%100
48	M45	Z	.076	.076	0	%100
49	M46	X	-.132	-.132	0	%100
50	M46	Z	.076	.076	0	%100
51	M47	X	-.132	-.132	0	%100
52	M47	Z	.076	.076	0	%100
53	M43A	X	-.499	-.499	0	%100
54	M43A	Z	.288	.288	0	%100
55	M44B	X	-.483	-.483	0	%100
56	M44B	Z	.279	.279	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.152	-.152	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.152	-.152	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.152	-.152	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.152	-.152	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.169	-.169	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.169	-.169	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.169	-.169	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	-.169	-.169	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.142	-.142	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.142	-.142	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.142	-.142	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.142	-.142	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-.577	-.577	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-.577	-.577	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-.577	-.577	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-.577	-.577	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-.152	-.152	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-.152	-.152	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-.152	-.152	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-.152	-.152	0	%100
52	M47	Z	0	0	0	%100
53	M43A	X	-.453	-.453	0	%100
54	M43A	Z	0	0	0	%100
55	M44B	X	-.513	-.513	0	%100
56	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.151	-.151	0	%100
2	M1	Z	-.087	-.087	0	%100
3	M2	X	-.151	-.151	0	%100
4	M2	Z	-.087	-.087	0	%100
5	M13	X	-.099	-.099	0	%100
6	M13	Z	-.057	-.057	0	%100
7	M14	X	-.099	-.099	0	%100
8	M14	Z	-.057	-.057	0	%100
9	M15	X	-.099	-.099	0	%100
10	M15	Z	-.057	-.057	0	%100
11	M16	X	-.099	-.099	0	%100
12	M16	Z	-.057	-.057	0	%100
13	M17	X	-.332	-.332	0	%100
14	M17	Z	-.191	-.191	0	%100
15	M18	X	-.332	-.332	0	%100
16	M18	Z	-.191	-.191	0	%100
17	M19	X	-.008	-.008	0	%100
18	M19	Z	-.004	-.004	0	%100
19	OVP	X	-.008	-.008	0	%100
20	OVP	Z	-.004	-.004	0	%100
21	M21	X	-.033	-.033	0	%100
22	M21	Z	-.019	-.019	0	%100
23	M22	X	-.033	-.033	0	%100
24	M22	Z	-.019	-.019	0	%100
25	M23	X	-.033	-.033	0	%100
26	M23	Z	-.019	-.019	0	%100
27	M24	X	-.033	-.033	0	%100
28	M24	Z	-.019	-.019	0	%100
29	M25	X	-.15	-.15	0	%100
30	M25	Z	-.087	-.087	0	%100
31	M26	X	-.15	-.15	0	%100
32	M26	Z	-.087	-.087	0	%100
33	M27	X	-.102	-.102	0	%100
34	M27	Z	-.059	-.059	0	%100
35	M28	X	-.102	-.102	0	%100
36	M28	Z	-.059	-.059	0	%100
37	MP4A	X	-.5	-.5	0	%100
38	MP4A	Z	-.289	-.289	0	%100
39	MP3A	X	-.5	-.5	0	%100
40	MP3A	Z	-.289	-.289	0	%100
41	MP2A	X	-.5	-.5	0	%100
42	MP2A	Z	-.289	-.289	0	%100
43	MP1A	X	-.5	-.5	0	%100
44	MP1A	Z	-.289	-.289	0	%100
45	M44	X	-.132	-.132	0	%100
46	M44	Z	-.076	-.076	0	%100
47	M45	X	-.132	-.132	0	%100
48	M45	Z	-.076	-.076	0	%100
49	M46	X	-.132	-.132	0	%100
50	M46	Z	-.076	-.076	0	%100
51	M47	X	-.132	-.132	0	%100
52	M47	Z	-.076	-.076	0	%100
53	M43A	X	-.143	-.143	0	%100
54	M43A	Z	-.083	-.083	0	%100
55	M44B	X	-.211	-.211	0	%100
56	M44B	Z	-.122	-.122	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.262	-.262	0	%100
2	M1	Z	-.454	-.454	0	%100
3	M2	X	-.262	-.262	0	%100
4	M2	Z	-.454	-.454	0	%100
5	M13	X	-.019	-.019	0	%100
6	M13	Z	-.033	-.033	0	%100
7	M14	X	-.019	-.019	0	%100
8	M14	Z	-.033	-.033	0	%100
9	M15	X	-.019	-.019	0	%100
10	M15	Z	-.033	-.033	0	%100
11	M16	X	-.019	-.019	0	%100
12	M16	Z	-.033	-.033	0	%100
13	M17	X	-.218	-.218	0	%100
14	M17	Z	-.378	-.378	0	%100
15	M18	X	-.218	-.218	0	%100
16	M18	Z	-.378	-.378	0	%100
17	M19	X	-.031	-.031	0	%100
18	M19	Z	-.054	-.054	0	%100
19	OVP	X	-.031	-.031	0	%100
20	OVP	Z	-.054	-.054	0	%100
21	M21	X	-.057	-.057	0	%100
22	M21	Z	-.099	-.099	0	%100
23	M22	X	-.057	-.057	0	%100
24	M22	Z	-.099	-.099	0	%100
25	M23	X	-.057	-.057	0	%100
26	M23	Z	-.099	-.099	0	%100
27	M24	X	-.057	-.057	0	%100
28	M24	Z	-.099	-.099	0	%100
29	M25	X	-.091	-.091	0	%100
30	M25	Z	-.157	-.157	0	%100
31	M26	X	-.091	-.091	0	%100
32	M26	Z	-.157	-.157	0	%100
33	M27	X	-.063	-.063	0	%100
34	M27	Z	-.109	-.109	0	%100
35	M28	X	-.063	-.063	0	%100
36	M28	Z	-.109	-.109	0	%100
37	MP4A	X	-.289	-.289	0	%100
38	MP4A	Z	-.5	-.5	0	%100
39	MP3A	X	-.289	-.289	0	%100
40	MP3A	Z	-.5	-.5	0	%100
41	MP2A	X	-.289	-.289	0	%100
42	MP2A	Z	-.5	-.5	0	%100
43	MP1A	X	-.289	-.289	0	%100
44	MP1A	Z	-.5	-.5	0	%100
45	M44	X	-.076	-.076	0	%100
46	M44	Z	-.132	-.132	0	%100
47	M45	X	-.076	-.076	0	%100
48	M45	Z	-.132	-.132	0	%100
49	M46	X	-.076	-.076	0	%100
50	M46	Z	-.132	-.132	0	%100
51	M47	X	-.076	-.076	0	%100
52	M47	Z	-.132	-.132	0	%100
53	M43A	X	-.000484	-.000484	0	%100
54	M43A	Z	-.000838	-.000838	0	%100
55	M44B	X	-.01	-.01	0	%100
56	M44B	Z	-.017	-.017	0	%100

Member Area Loads

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

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35	max	688.548	23	1251.548	19	1593.428	13	-.131	1	0	51	.392	21
2		min	-439.133	49	398.964	1	-266.41	7	-.479	19	0	1	.05	2
3	N36	max	571.6	9	1206.22	13	53.645	2	-.157	8	0	51	.369	21
4		min	-769.43	3	386.879	7	-711.092	20	-.472	13	0	1	.07	3
5	N52	max	234.388	9	39.048	16	389.123	9	0	51	0	51	0	51
6		min	-335.843	3	13.052	9	-582.318	3	0	1	0	1	0	1
7	N53	max	241.231	2	58.149	20	734.077	2	0	51	0	51	0	51
8		min	-357.474	8	19.314	2	-1063.1	8	0	1	0	1	0	1
9	Totals:	max	1148.555	10	2529.923	24	1706.574	1						
10		min	-1148.555	4	907.112	6	-1706.574	7						

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

	Member	Shape	Code ...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc ...	phi*Pnt [...	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	M1	PIPE_2.5	.129	3.646	49	.071	8.203		8	14558.7...	50715	3.596	3.596	2....	H1-1b
2	M2	PIPE_2.5	.129	9.115	8	.104	9.115		8	14558.7...	50715	3.596	3.596	2....	H1-1b
3	M13	PL5/8X3.5	.201	.422	39	.146	0	y	49	66184.77	68906.25	.897	5.024	1....	H1-1b
4	M14	PL5/8X3.5	.219	.422	43	.144	0	y	49	66184.77	68906.25	.897	5.024	1....	H1-1b
5	M15	PL5/8X3.5	.262	.422	21	.130	.422	y	20	66184.77	68906.25	.897	5.024	1....	H1-1b
6	M16	PL5/8X3.5	.291	.422	20	.152	.422	y	20	66184.77	68906.25	.897	5.024	1....	H1-1b
7	M17	PIPE_2.0	.128	0	2	.073	0		42	31128.25	32130	1.872	1.872	2....	H1-1b
8	M18	PIPE_2.0	.108	2.501	1	.082	0		43	31128.25	32130	1.872	1.872	1....	H1-1b
9	M19	PIPE_2.0	.128	0	24	.096	0		19	31128.25	32130	1.872	1.872	2....	H1-1b
10	OVP	PIPE_2.0	.148	0	20	.102	0		23	31128.25	32130	1.872	1.872	1....	H1-1b
11	M21	PL5/8X3.5	.181	.531	49	.067	.531	y	44	67591.76	68906.25	.897	5.024	1....	H1-1b
12	M22	PL5/8X3.5	.276	.531	24	.061	0	y	27	67591.76	68906.25	.897	5.024	2....	H1-1b
13	M23	PL5/8X3.5	.254	.531	14	.081	0	y	44	67591.76	68906.25	.897	5.024	1....	H1-1b
14	M24	PL5/8X3.5	.347	.531	24	.076	.531	y	27	67591.76	68906.25	.897	5.024	2....	H1-1b
15	M25	SR_0.75	.000	0	51	.009	0		49	8911.555	13916.2...	.174	.174	1	H1-1a
16	M26	SR_0.75	.051	0	39	.012	0		3	8911.555	13916.2...	.174	.174	1	H1-1b*
17	M27	SR_0.75	.000	0	51	.008	4.167		8	8911.555	13916.2...	.174	.174	1	H1-1a
18	M28	SR_0.75	.072	4.167	20	.016	0		9	8911.555	13916.2...	.174	.174	1	H1-1b*
19	MP4A	PIPE_2.0	.201	5.667	49	.034	2.333		49	14916.0...	32130	1.872	1.872	4....	H1-1b
20	MP3A	PIPE_2.0	.135	2.333	9	.067	2.333		3	14916.0...	32130	1.872	1.872	4....	H1-1b
21	MP2A	PIPE_2.0	.181	2.333	8	.083	5.667		8	14916.0...	32130	1.872	1.872	2....	H1-1b
22	MP1A	PIPE_2.0	.138	2.333	18	.025	2.333		5	14916.0...	32130	1.872	1.872	4....	H1-1b
23	M44	SR_0.625	.038	1.667	6	.009	0		8	2158.31	9664.079	.101	.101	1....	H1-1b
24	M45	SR_0.625	.042	1.667	8	.015	0		2	2158.31	9664.079	.101	.101	1....	H1-1b
25	M46	SR_0.625	.042	1.667	7	.017	0		2	2158.31	9664.079	.101	.101	1	H1-1b
26	M47	SR_0.625	.044	1.597	18	.009	0		11	2158.31	9664.079	.101	.101	1....	H1-1b
27	M43A	PIPE_2.0	.041	3.147	15	.004	0		21	19984.01	32130	1.872	1.872	1....	H1-1b
28	M44B	PIPE_2.0	.086	4.681	21	.006	0		21	11224.4...	32130	1.872	1.872	1....	H1-1b

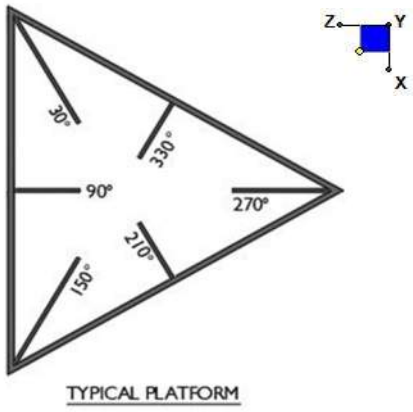
Client:	Verizon Wireless	Date:	9/13/2021
Site Name:	SUFFIELD S CT		
Project No.	21777790A		
Title:	Mount Replacement Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

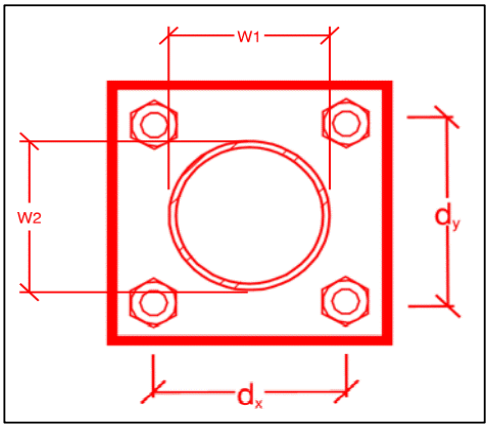
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N36	120
N35	120



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	9.5
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	3.5
Bolt Type:	A307
Bolt Diameter (in):	0.625
Required Tensile Strength (kips):	5.7
Required Shear Strength (kips):	1.5
Tensile Strength / bolt (kips):	10.0
Shear Strength / bolt (kips):	6.0
Tensile Capacity Overall:	**14.2%***
Shear Capacity Overall:	**6.3%**



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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – New Mount Passing MA

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

---

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

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

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built mount drawings" showing contractor's name, contact information, preparer's signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped.
- Photos should be high resolution.
- 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: ***https://pmi.vzwsmart.com***

Photo Requirements:

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

        - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
    - Photos that show the model number of each antenna and piece of equipment installed per sector.
    - Photos of each installed mount; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the installed mount elevation.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

1. Contractor to install (4) 96" long P2 STD mount pipes per sector with the distance from the bottom face horizontal to the top of the mount pipes at 68".
2. Contractor to install mount pipes evenly spaced along the face horizontals as shown in the rendered mount image in the report.
3. Contractor shall connect proposed tieback to the top face horizontal on the left and right sides of the mount at 6" outside the standoff horizontal. Refer to rendered image in this report. Contractor shall connect proposed tieback to the adjacent tower leg. The proposed tiebacks shall extend no more than 12" beyond the tower leg. Contractor shall trim as required and protect cut end with two coats of zinga or zinc cote.
4. Contractor to install proposed OVP to the standoff horizontal in Alpha sector.

Response:

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

☐ Yes ☐ No

Comments:

New Mount Certification:

☐ The contractor certifies that the New Mount installed is as specified in the Passing Mount Analysis.

☐ The contractor notes that the New Mount installed is not as specified and engineering approval was received for the New Mount installed.

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

Certifying Individual:

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

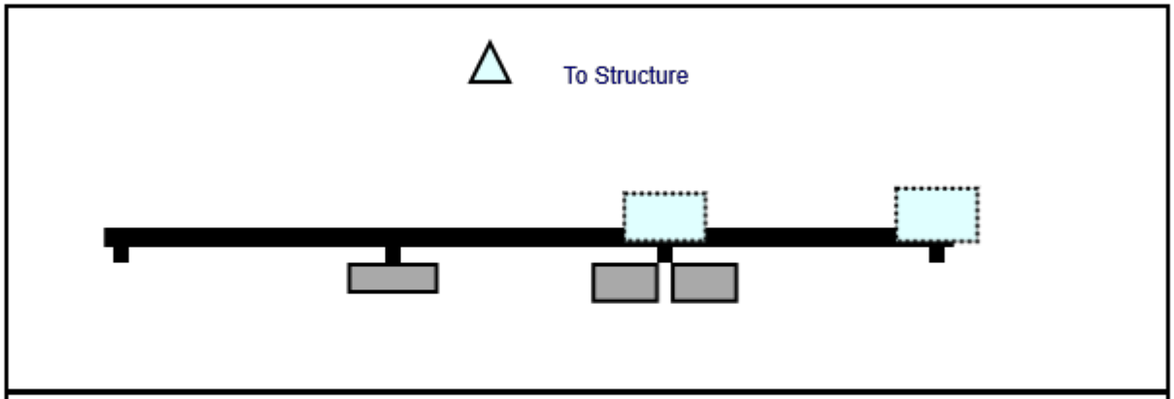
Structure: 468895-VZW - SUFFIELD S CT

Sector: **A** 9/13/2021

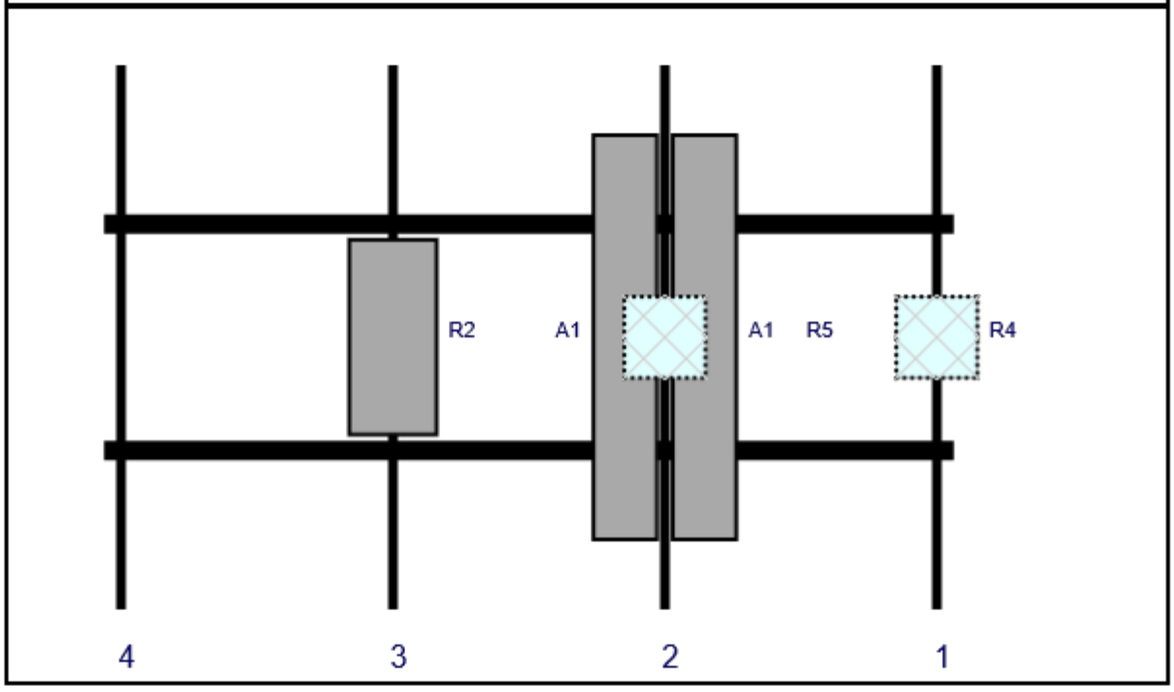
Structure Type: Self Support 10059012

Mount Elev: 90.80 Page: 1

Plan View



Front View
Looking at Structure



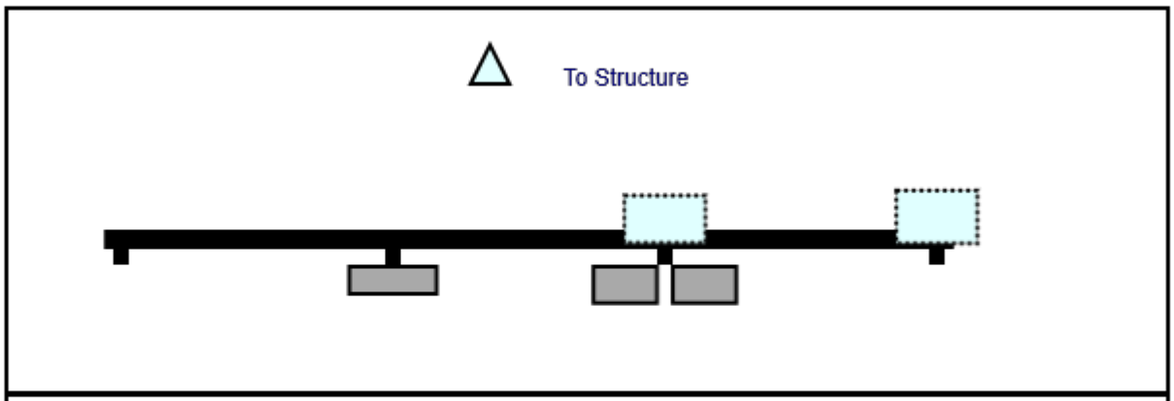
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	RF4439d-25A	15	15	147	1	a	Behind	48	0	Added	
A1	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Added	
A1	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Added	
R5	RF4440d-13A	15	15	99	2	a	Behind	48	0	Added	
R2	MT6407-77A	35.1	16.1	51	3	a	Front	48	0	Added	

Sector: **B** 9/13/2021

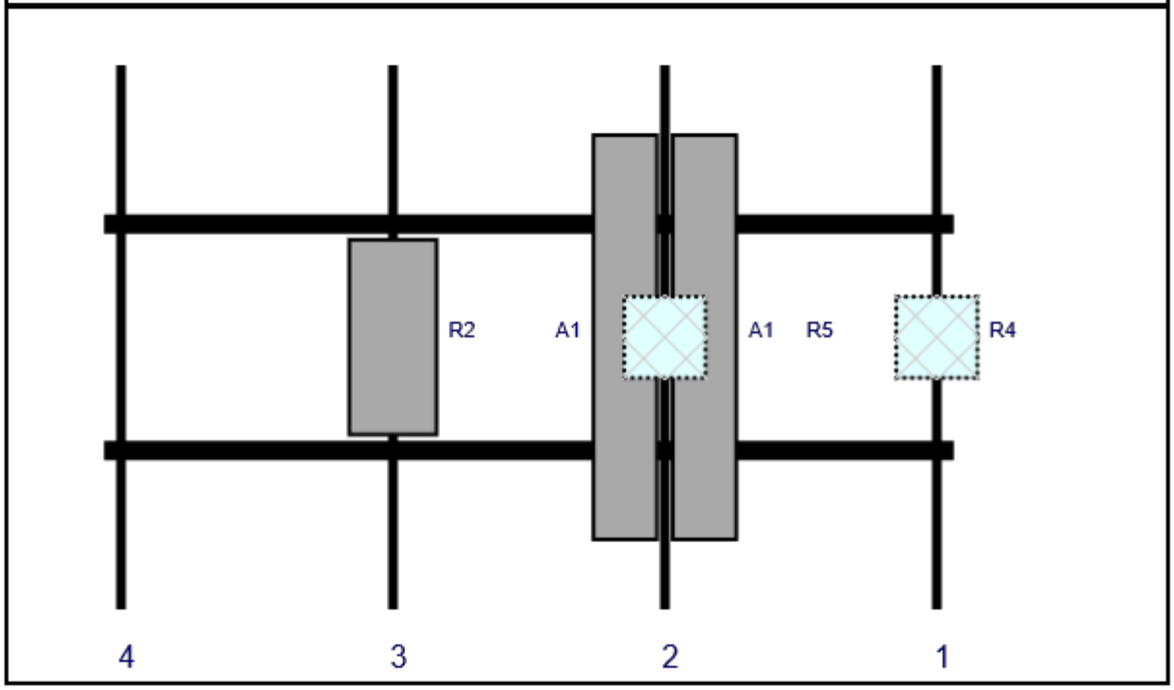
Structure Type: Self Support 10059012

Mount Elev: 90.80 Page: 2

Plan View



Front View
Looking at Structure



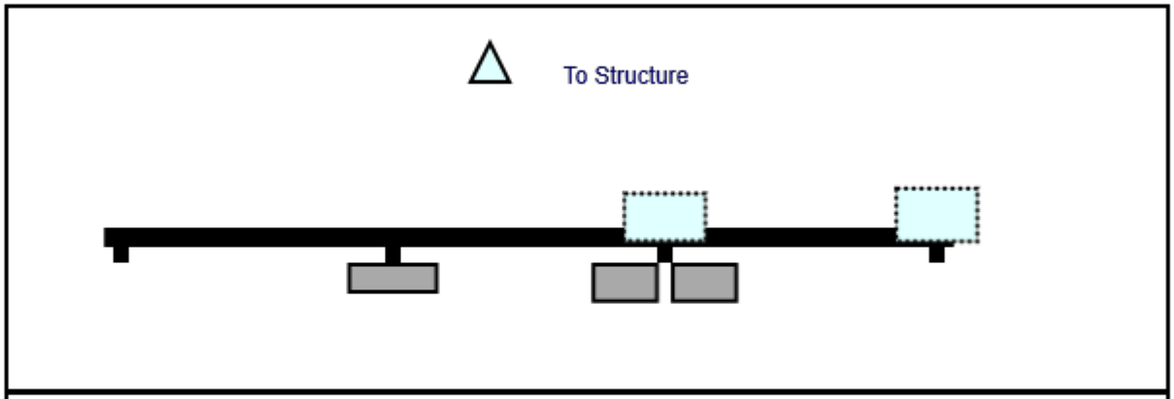
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	RF4439d-25A	15	15	147	1	a	Behind	48	0	Added	
A1	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Added	
A1	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Added	
R5	RF4440d-13A	15	15	99	2	a	Behind	48	0	Added	
R2	MT6407-77A	35.1	16.1	51	3	a	Front	48	0	Added	

Sector: **C** 9/13/2021

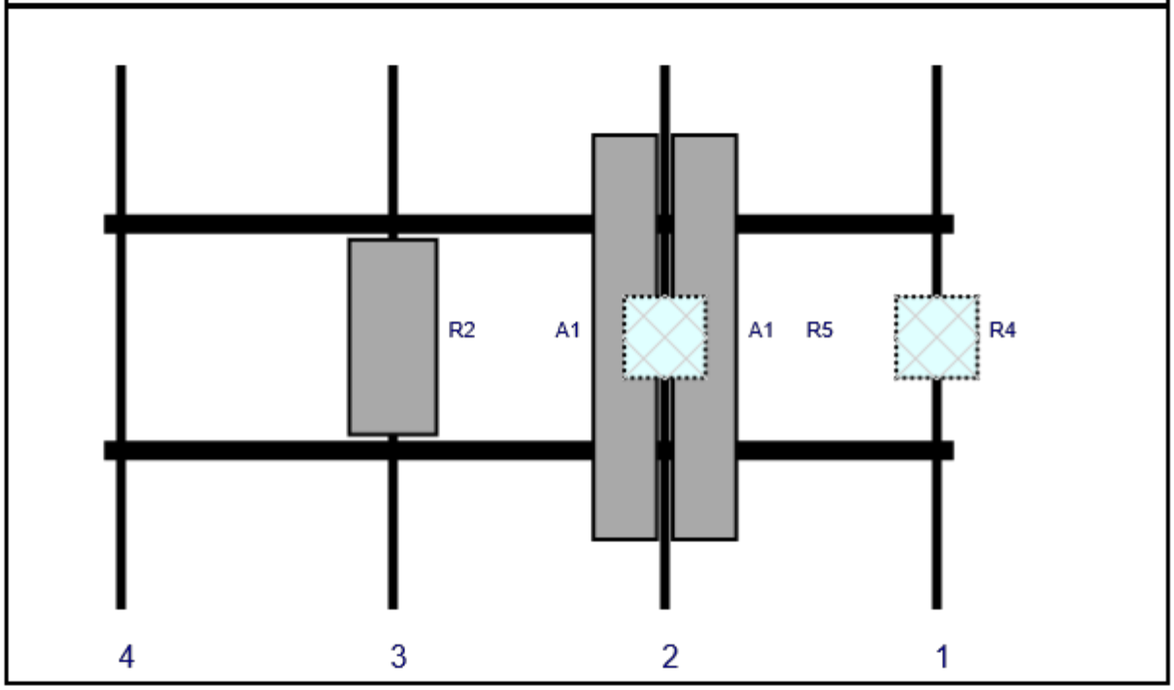
Structure Type: Self Support 10059012

Mount Elev: 90.80 Page: 3

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	RF4439d-25A	15	15	147	1	a	Behind	48	0	Added	
A1	NHH-65B-R2B	72	11.9	99	2	a	Front	48	7	Added	
A1	NHH-65B-R2B	72	11.9	99	2	b	Front	48	-7	Added	
R5	RF4440d-13A	15	15	99	2	a	Behind	48	0	Added	
R2	MT6407-77A	35.1	16.1	51	3	a	Front	48	0	Added	

Maser Consulting Connecticut

MASER CONSULTING — CONNECTICUT —

Subject:	*TIA-222-4 Usage*	
Site Information	*Site ID:*	*468895-VZW / SUFFIELD S CT*
	Site Name:	*SUFFIELD S CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*55 King Spring Road* *Windsor Locks, Connecticut 06096* *Hartford County*
	Latitude:	*41.946669°*
	Longitude:	*-72.665089°*
Structure Information	*Tower Type:*	*100-Ft Self Support*
	Mount Type:	*12.50-Ft Sector Frame*

To Whom It May Concern,

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

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

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

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

Sincerely,

Peter Albano, P.E.
Project Manager

ATTACHMENT 5

55 KING SPRING ROAD

Google Directions | Zoom

View Details

Google Maps Link

Downloadable Data

Property

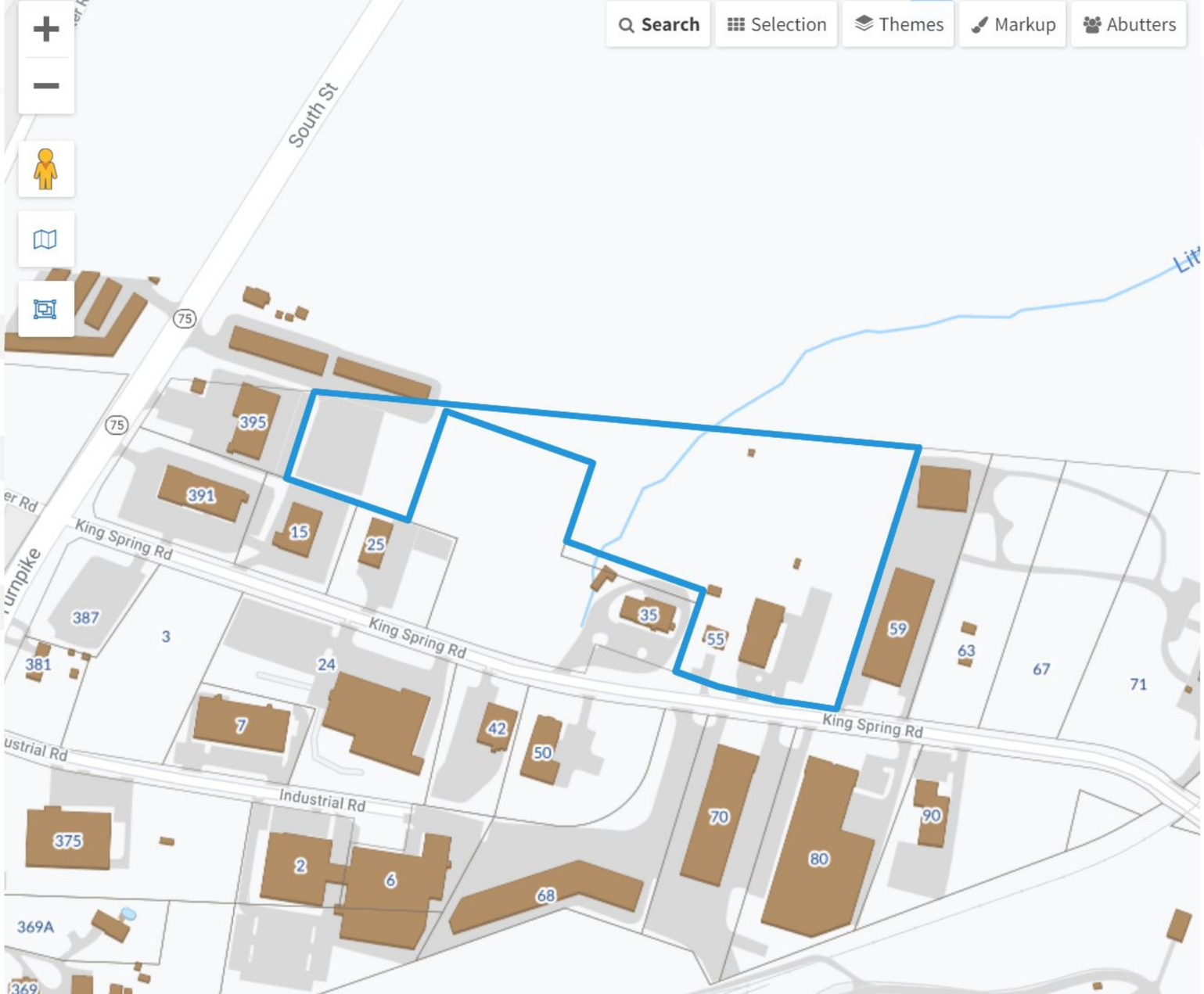
Address	55 KING SPRING ROAD
ID	003-002-282

Ownership

Name	S&D SALES LLC
Address	55 KING SPRING RD WINDSOR LOCKS, CT 6096

Land

Zone	IND1



Search

Advanced Search

Download Results | More

Showing 1-1 results. Scroll to see more.

55 KING SPRING ROAD
S&D SALES LLC
32282000

Windsor Locks, CT : Assessor Database

Property Search:

Parcel ID:	Alternate ID:	Owner 1 Name:	Street Number:	Street Name:
			55	KING SPRING ROAD

Search Reset

Property Detail:

Parcel ID:	Alternate ID/Map Block Lot:	Card:	Card:	Street Name:	Street Number:	Zoning:	LUC:	Acres:
32282000	003-002-282-	1	1	KING SPRING ROAD	55	IND1	Industrial	0.50

Owner Information:

Owner 1 Name:	S&D SALES LLC
Owner 2 Name:	SAMUEL SALES MBR MGR
Street 1:	363 HALLADAY AVE W
Street 2:	
City:	SUFFIELD
State:	CT
Zip:	06078
Volume:	453
Page:	671
Deed Date:	0000-00-00

Building Information:

Building Number:	1
Units:	0
Structure Type:	WAREHOUSE
Grade:	C
Identical Units:	1
Year Built:	1970

Valuation:

Property Images:

Picture:

Sketch:

ID	Code	Description	Area
A	VS1	1S	3608
B	VS1	1S	1820

ATTACHMENT 6

UNITED STATES POSTAL SERVICE®

SUFFIELD SOUTH

Certificate of Mailing — Firm

Name and Address of Sender	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here *Postmark with Date of Receipt.*
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103		3	neopost 12/08/2021 US POSTAGE $002.99 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.	Paul M. Harrington, First Selectman Town of Windsor Locks 866 Boston Post Road Windsor Locks, CT 06096				
2.	Jennifer Rodriguez, Town Planner/Director Planning and Development Town of Windsor Locks 866 Boston Post Road Windsor Locks, CT 06096				
3.	S&D Sales LLC Samuel Sales MBR Mgr 363 Halladay Avenue Suffield, CT 06078				
4.					
5.					
6.					

OLD STATE HOUSE STATION 06103 DEC 08 2021 USPS