

Derek Maheux Program Manager  
c/o Cellco Partnership d/b/a Verizon Wireless  
Centerline Communications, LLC  
750 West Center Street, Suite 301  
West Bridgewater, MA 02379  
Mobile: (508)649-3407  
[Dmaheux@clinellc.com](mailto:Dmaheux@clinellc.com)

September 25, 2023

Melanie A. Bachman  
Acting Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**RE: Notice of Exempt Modification // Site: BARKHAMSTED W CT (ATC: 411177)  
14 Old North Road, Barkhamsted CT 06063  
N 41.914528 // W -73.022222**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains fifteen (15) antenna at the 145-ft level on the existing 144ft Tower, located at 14 Old North Road, Barkhamsted, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation of four (4) interference mitigation filters on Verizon Wireless existing antenna platform and mounting assembly.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §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 Bethany'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). Enclosed to accommodate this filing are construction drawings dated September 12, 2023, by A.T Engineering Services, LLC, a structural analysis dated September 6, 2023, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated August 2, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated September 11, 2023, by Tower Engineering Professionals.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications 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 operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis and a structural mount analysis, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings.

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

Sincerely,

*Derek Maheux*

---

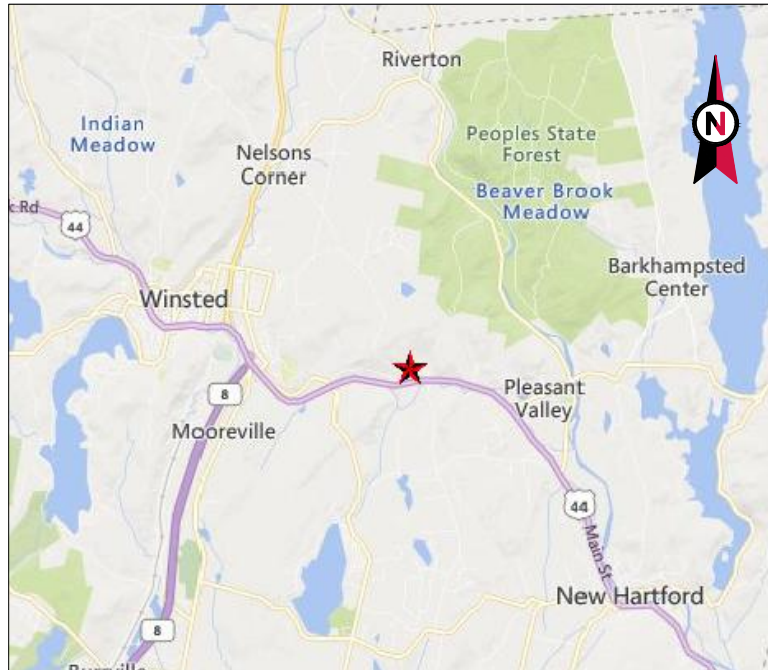
Derek Maheux, Program Manager  
c/o Cellco Partnership d/b/a Verizon Wireless  
Centerline Communications, LLC  
750 West Center Street, Suite 301  
West Bridgewater, MA 02379  
Mobile: (508) 649 2307  
[Dmaheux@clinellc.com](mailto:Dmaheux@clinellc.com)

Attachments: Exhibit 1 – Construction Drawings  
Exhibit 2 – Property Card and GIS  
Exhibit 3 – Structural Analysis  
Exhibit 4 – Mount Analysis  
Exhibit 5 – RF Emissions Analysis Report Evaluation  
Exhibit 6 – Available Original Tower Approval Records  
Exhibit 7 – Notice Deliver Confirmations

cc: Donald S. Stein – First Selectman – Chief Elected Official  
James Kopler – Building Official - as P&Z official  
American Tower Corporation - as tower owner  
John N. Lavieri – as ground owner

# EXHIBIT 1





VICINITY MAP



**AMERICAN TOWER®**

ATC SITE NAME: BARKHAMSTEDW CT  
 ATC SITE NUMBER: 411177  
 VERIZON SITE NAME: BARKHAMSTED W CT  
 VERIZON SITE NUMBER: 5000243734  
 SITE ADDRESS: 14 OLD NORTH ROAD  
 BARKHAMSTED, CT 06063



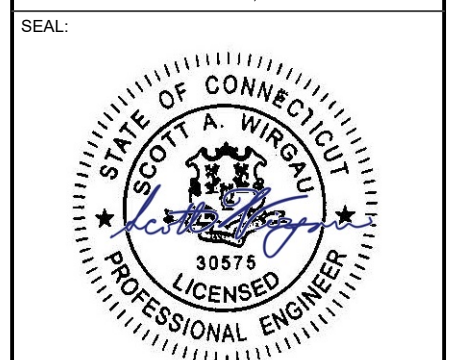
LOCATION MAP

**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICES LLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	9/11/2023
1	COMPLIANCE CODES	TJC	09/12/23

ATC SITE NUMBER:  
 411177  
 ATC SITE NAME:  
 BARKHAMSTEDW CT  
 VERIZON SITE NAME:  
 BARKHAMSTED W CT  
 SITE ADDRESS:  
 14 OLD NORTH ROAD  
 BARKHAMSTED, CT 06063



VERIZON AMENDMENT DRAWINGS

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.  1. 2020 NFPA 70, NATIONAL ELECTRIC CODE (NEC) 2. 2022 CONNECTICUT STATE BUILDING CODE 3. 2021 INTERNATIONAL BUILDING CODE (IBC)  <u>DESIGN CRITERIA FROM TOWER STRUCTURAL ANALYSIS:</u> BASIC WIND SPEED: 115 BASIC WIND SPEED W/ ICE: 50 CODE(S): ANSITIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE  EXPOSURE CATEGORY: B RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 1 TOPOGRAPHIC CATEGORY: 1 SPECTRAL RESPONSE: S <sub>s</sub> =0.17, S <sub>1</sub> =0.05 SITE CLASS: D-STIFF SOIL-DEFAULT  INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED 09/06/2023.	<u>SITE ADDRESS:</u> 14 OLD NORTH ROAD BARKHAMSTED, CT 06063 COUNTY: LITCHFIELD  <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.914528 LONGITUDE: -73.022222 GROUND ELEVATION: 814' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:  <u>TOWER WORK:</u> INSTALL MOUNT MODIFICATIONS AND (4) FILTER(S) EXISTING (15) ANTENNA(S), (6) RRH(S), (1) OVP(S), (6) 1-5/8" COAX AND (2) 2.02" HYBRID CABLE(S) TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u>  <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801  <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518  <u>PROPERTY OWNER:</u> JOHN N LAVIERI 14 OLD NORTH ROAD BARKHAMSTED, CT 06063	PROJECT NOTES 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).					
<u>UTILITY COMPANIES</u>  POWER COMPANY: NORTHEAST UTILITY SERVICE PHONE: (800) 286-2000  TELEPHONE COMPANY: UNKNOWN PHONE: N/A	<u>PROJECT LOCATION DIRECTIONS</u>  FROM EAST HARTFORD I-84 WEST TO RT. 44 RT. PAST RT. 318 ON THE RIGHT. LOOK FOR STERLING ENGINEERING. TURN RIGHT IMMEDIATELY AFTER ANTIQUE STORE ONTO OLD FARM RD. THEN TURN LEFT ONTO PRIVATE DRIVE. TURN RIGHT BEFORE HOUSE ONTO STONE DRIVE. TAKE ANOTHER LEFT SITE IS AT END OF ROAD. THIS SITE HAS DIESEL RESTRICTIONS NOTED IN EMIS	<u>CONTRACTOR PMI REQUIREMENTS</u>  PMI ACCESSED AT: HTTPS://PMI.VZWSMART.COM SMART TOOL VENDOR PROJECT NUMBER: 10208046 VZW LOCATION CODE (PSLC): 5000243734 ***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT  MOUNT MODIFICATION REQUIRED: YES VZW APPROVED SMART KIT VENDORS: REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS					



ATC JOB NO: 14527572\_GO  
 CUSTOMER ID: BARKHAMSTED W CT  
 CUSTOMER #: 5000243734

TITLE SHEET

SHEET NUMBER: G-001  
 REVISION: 1

Copyright © 2023 ATC IP LLC. All Rights Reserved.

**GENERAL CONSTRUCTION NOTES:**

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
  - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
  - B. AC/TELCO INTERFACE BOX (PPC)
  - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
  - D. TOWERS, MONOPOLES
  - E. TOWER LIGHTING
  - F. GENERATORS & LIQUID PROPANE TANK
  - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
  - H. ANTENNAS (INSTALLED BY OTHERS)
  - I. TRANSMISSION LINE
  - J. TRANSMISSION LINE JUMPERS
  - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
  - L. TRANSMISSION LINE GROUND KITS
  - M. HANGERS
  - N. HOISTING GRIPS
  - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. 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.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. 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.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
31. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
32. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
34. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

- B. ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

**SPECIAL CONSTRUCTION**

**ANTENNA INSTALLATION NOTES:**

1. WORK INCLUDED:
  - A. ANTENNA AND COAXIAL/HYBRID CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.
  - B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.
  - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
  - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
  - E. INSTALL COAXIAL/HYBRID CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
2. ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:
  - A. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



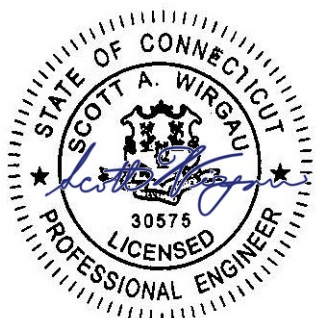
**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICES LLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	9/11/2023

ATC SITE NUMBER:  
 411177  
 ATC SITE NAME:  
**BARKHAMSTEDW CT**  
 VERIZON SITE NAME:  
**BARKHAMSTED W CT**  
 SITE ADDRESS:  
 14 OLD NORTH ROAD  
 BARKHAMSTED, CT 06063

SEAL:



Digitally Signed: 2023-09-12



ATC JOB NO:	14527572_G0
CUSTOMER ID:	BARKHAMSTED W CT
CUSTOMER #:	5000243734

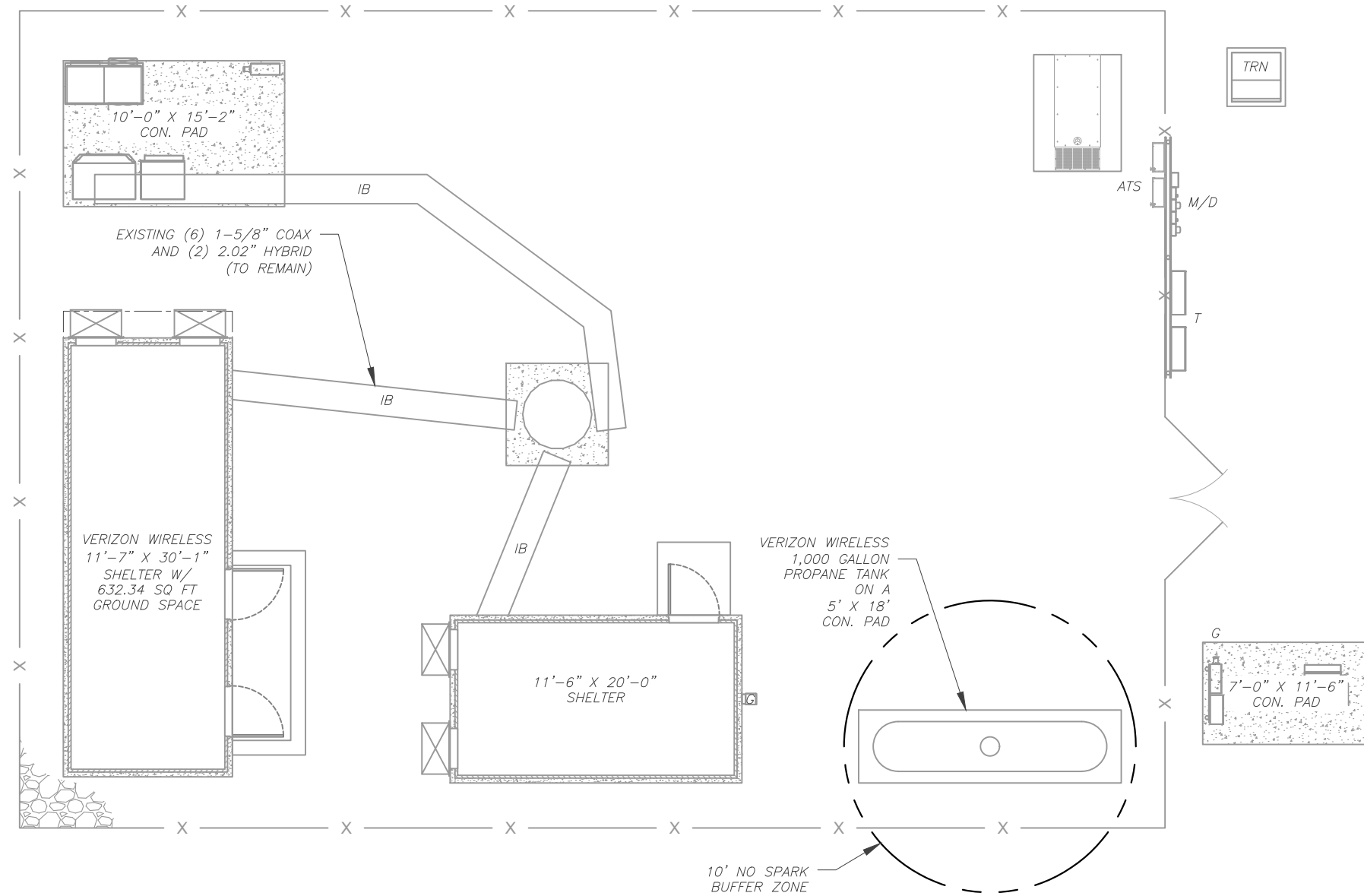
**GENERAL NOTES**

SHEET NUMBER: <b>G-002</b>	REVISION: <b>0</b>
-------------------------------	-----------------------

Copyright © 2023 ATC IP LLC. All Rights Reserved.

**SITE PLAN NOTES:**

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.



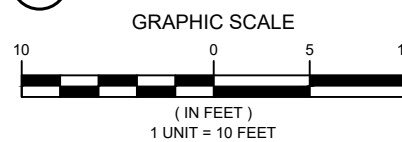
**LEGEND**

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
—	CHAINLINK FENCE

**PROPOSED CABLE NOTES:**

- ESTIMATED LENGTH OF PROPOSED CABLE IS **201'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

**1 DETAILED SITE PLAN**



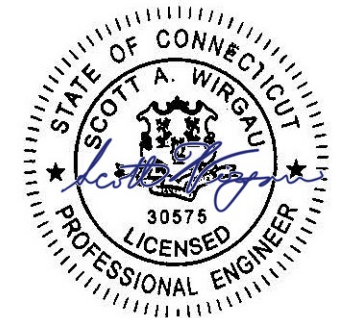
**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICES LLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	9/11/2023

ATC SITE NUMBER:  
**411177**  
 ATC SITE NAME:  
**BARKHAMSTEDW CT**  
 VERIZON SITE NAME:  
**BARKHAMSTED W CT**  
 SITE ADDRESS:  
 14 OLD NORTH ROAD  
 BARKHAMSTED, CT 06063

SEAL:



Digitally Signed: 2023-09-12

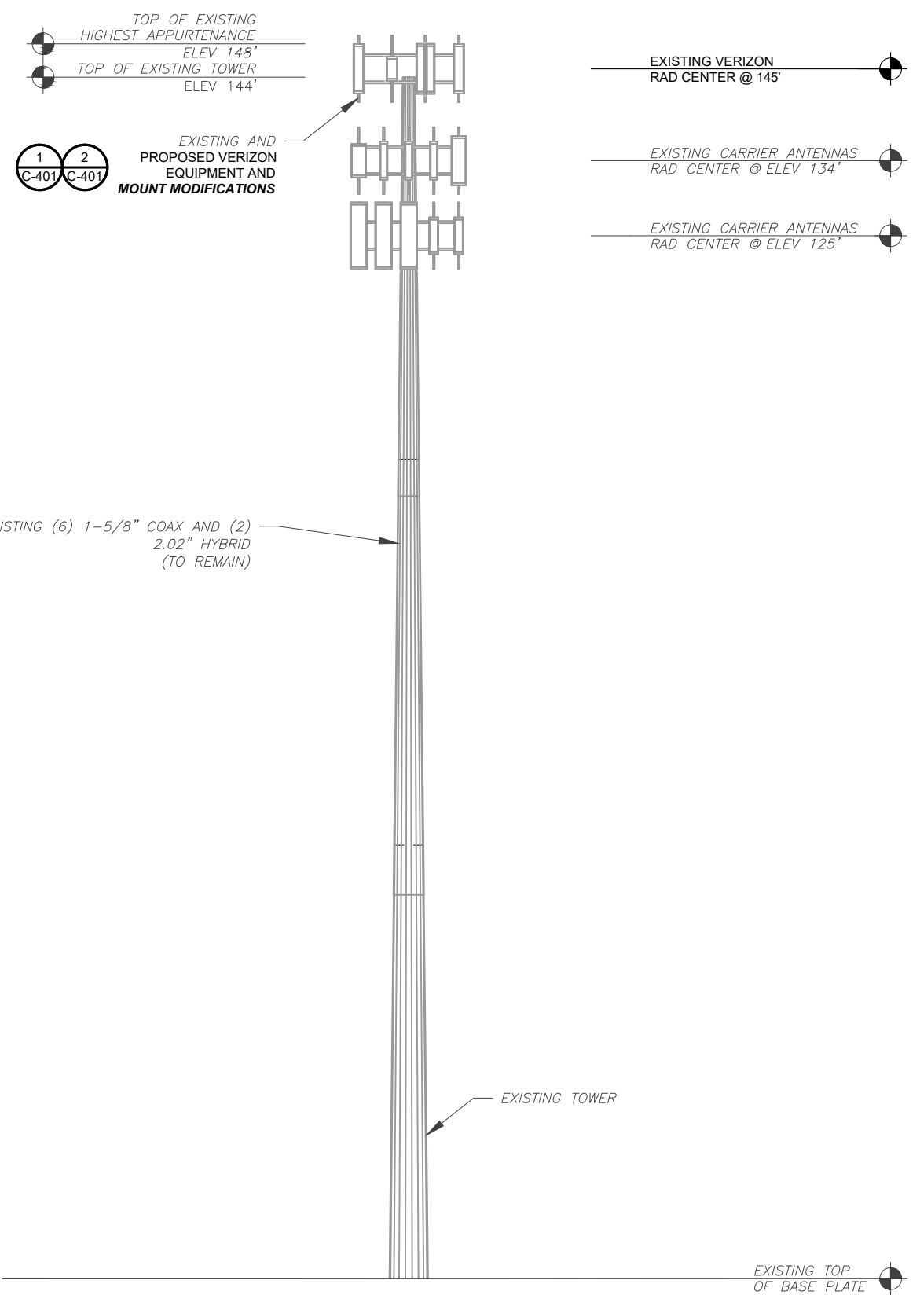


ATC JOB NO:	14527572_G0
CUSTOMER ID:	BARKHAMSTED W CT
CUSTOMER #:	5000243734

**DETAILED SITE PLAN**

SHEET NUMBER:	REVISION:
<b>C-101</b>	<b>0</b>

Copyright © 2023 ATC IP, LLC. All Rights Reserved.



PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING AND DESIGN, DATED 08/02/2023, THE EXISTING MOUNT **MUST BE MODIFIED** TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICES LLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	9/11/2023

ATC SITE NUMBER:  
 411177  
 ATC SITE NAME:  
**BARKHAMSTEDW CT**  
 VERIZON SITE NAME:  
**BARKHAMSTED W CT**  
 SITE ADDRESS:  
 14 OLD NORTH ROAD  
 BARKHAMSTED, CT 06063



Digitally Signed: 2023-09-12

- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
  - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
  - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



ATC JOB NO:	14527572_GO
CUSTOMER ID:	BARKHAMSTED W CT
CUSTOMER #:	5000243734

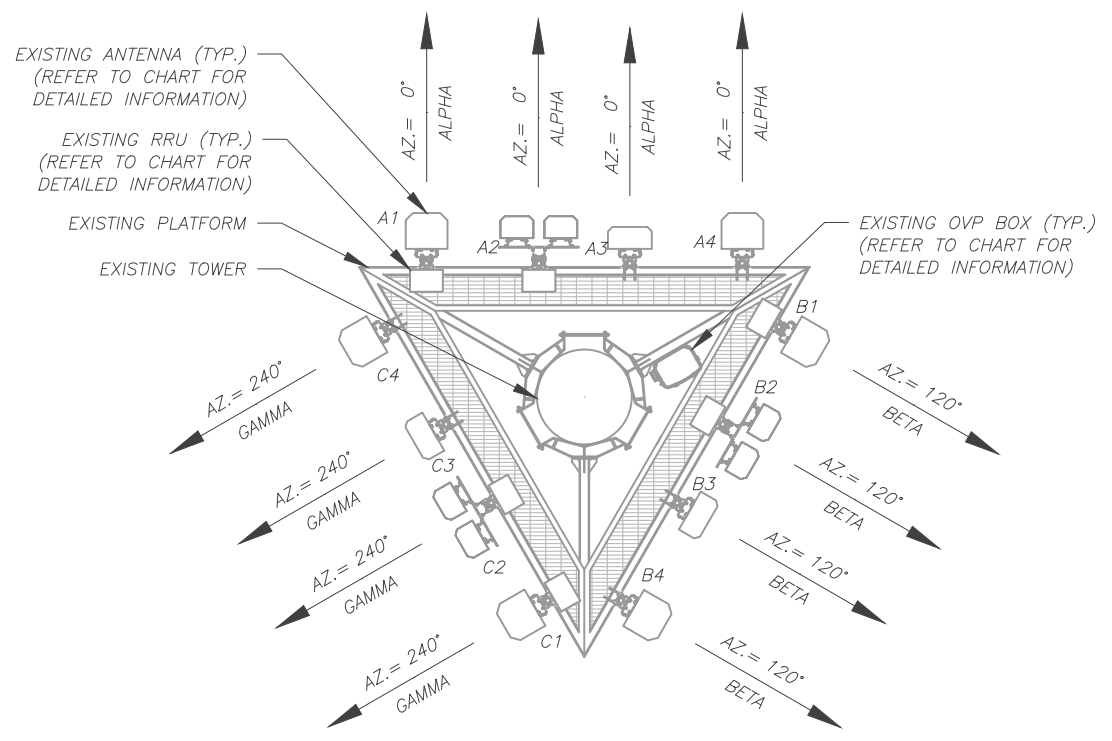
**TOWER ELEVATION**

SHEET NUMBER: <b>C-201</b>	REVISION: <b>0</b>
-------------------------------	-----------------------

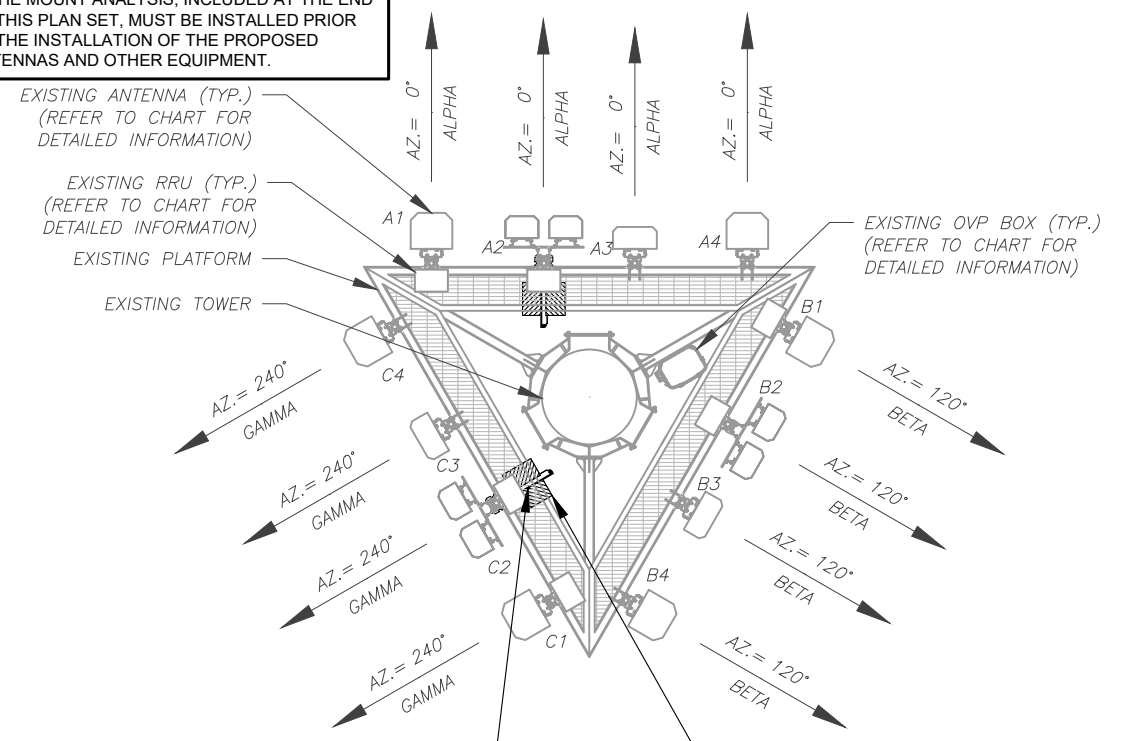
**1 TOWER ELEVATION**  
 SCALE: N.T.S.

Copyright © 2023 ATC IP LLC, All Rights Reserved.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING AND DESIGN, DATED 08/02/2023, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



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



2 FINAL ANTENNA PLAN SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	145'	0°	A1	LPA-70063-6CFEDIN-X	850 CDMA	RMN	B2/B66A RRH-BR049	RMN
			A2	(2) QS6656-5D	700/850 LTE 1900/2100 LTE	RMN	B5/B13 RRH-BR04C	RMN
			A3	MT6407-77A	L-SUB6	RMN	-	-
			A4	LPA-70063-6CFEDIN-X	850 CDMA	RMN	-	-
BETA	145'	120°	B1	LPA-70063-6CFEDIN-X	850 CDMA	RMN	B2/B66A RRH-BR049	RMN
			B2	(2) QS6656-5D	700/850 LTE 1900/2100 LTE	RMN	B5/B13 RRH-BR04C	RMN
			B3	MT6407-77A	L-SUB6	RMN	-	-
			B4	LPA-70063-6CFEDIN-X	850 CDMA	RMN	-	-
GAMMA	145'	240°	C1	LPA-70063-6CFEDIN-X	850 CDMA	RMN	B2/B66A RRH-BR049	RMN
			C2	(2) QS6656-5D	700/850 LTE 1900/2100 LTE	RMN	B5/B13 RRH-BR04C	RMN
			C3	MT6407-77A	L-SUB6	RMN	-	-
			C4	LPA-70063-6CFEDIN-X	850 CDMA	RMN	-	-

**NOTES**

- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

**STATUS ABBREVIATIONS**

RMV: TO BE REMOVED  
 RMN: TO REMAIN  
 REL: TO BE RELOCATED  
 ADD: TO BE ADDED

**CABLE LENGTHS FOR JUMPERS**

JUNCTION BOX TO RRU: 15'  
 RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	145'	0°	A1	LPA-70063-6CFEDIN-X	850 CDMA	RMN	B2/B66A RRH-BR049	RMN
			A2	(2) QS6656-5D	700/850 LTE 1900/2100 LTE	RMN	B5/B13 RRH-BR04C (2) KA-6030	RMN ADD
			A3	MT6407-77A	L-SUB6	RMN	-	-
			A4	LPA-70063-6CFEDIN-X	850 CDMA	RMN	-	-
BETA	145'	120°	B1	LPA-70063-6CFEDIN-X	850 CDMA	RMN	B2/B66A RRH-BR049	RMN
			B2	(2) QS6656-5D	700/850 LTE 1900/2100 LTE	RMN	B5/B13 RRH-BR04C	RMN
			B3	MT6407-77A	L-SUB6	RMN	-	-
			B4	LPA-70063-6CFEDIN-X	850 CDMA	RMN	-	-
GAMMA	145'	240°	C1	LPA-70063-6CFEDIN-X	850 CDMA	RMN	B2/B66A RRH-BR049	RMN
			C2	(2) QS6656-5D	700/850 LTE 1900/2100 LTE	RMN	B5/B13 RRH-BR04C (2) KA-6030	RMN ADD
			C3	MT6407-77A	L-SUB6	RMN	-	-
			C4	LPA-70063-6CFEDIN-X	850 CDMA	RMN	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
DB-C1-12C-24AB-0Z	RMN	(6) 1-5/8" COAX AND (2) 2.02" HYBRID	RMN
-	RMV	----	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
DB-C1-12C-24AB-0Z	RMN	(6) 1-5/8" COAX AND (2) 2.02" HYBRID	RMN
-	ADD	----	ADD

**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICES LLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	9/11/2023

ATC SITE NUMBER:  
411177

ATC SITE NAME:  
BARKHAMSTEDW CT

VERIZON SITE NAME:  
BARKHAMSTED W CT

SITE ADDRESS:  
14 OLD NORTH ROAD  
BARKHAMSTED, CT 06063

SEAL:

Digitally Signed: 2023-09-12

ATC JOB NO: 14527572\_GO  
 CUSTOMER ID: BARKHAMSTED W CT  
 CUSTOMER #: 5000243734

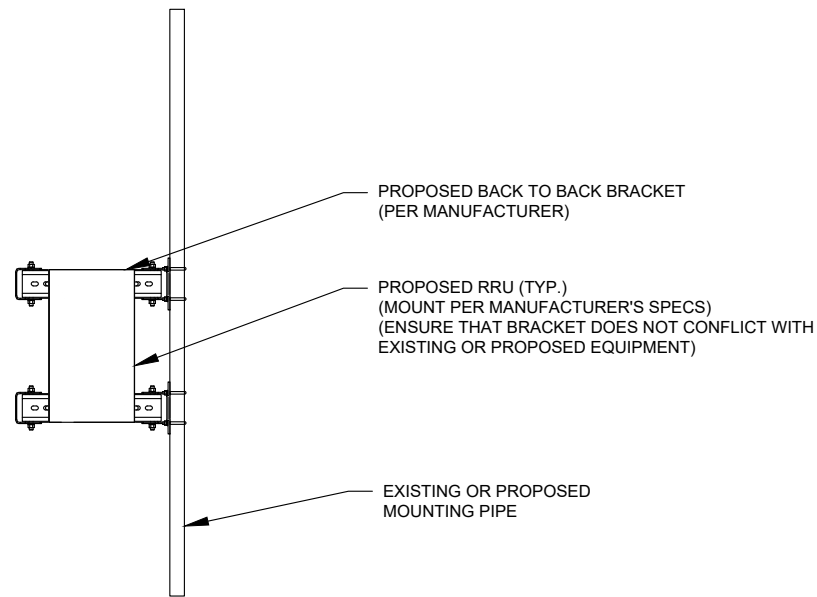
**ANTENNA INFORMATION & SCHEDULE**

SHEET NUMBER: **C-401**  
 REVISION: **0**

Copyright © 2023 ATC IP LLC. All Rights Reserved.



EXISTING/PROPOSED MOUNTS AND/OR MOUNT MODIFICATIONS NOT SHOWN FOR CLARITY. REFER TO ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



1 PROPOSED RRU MOUNTING DETAIL - TYPICAL  
SCALE: N.T.S.



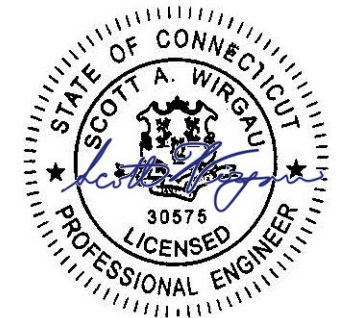
**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICES LLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	9/11/2023

ATC SITE NUMBER:  
 411177  
 ATC SITE NAME:  
 BARKHAMSTEDW CT  
 VERIZON SITE NAME:  
 BARKHAMSTED W CT  
 SITE ADDRESS:  
 14 OLD NORTH ROAD  
 BARKHAMSTED, CT 06063

SEAL:



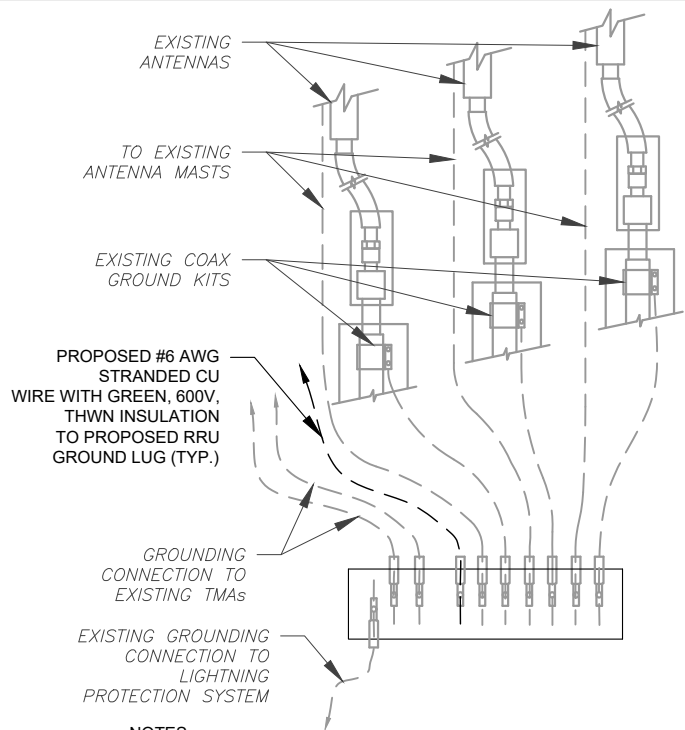
Digitally Signed: 2023-09-12



ATC JOB NO: 14527572\_G0  
 CUSTOMER ID: BARKHAMSTED W CT  
 CUSTOMER #: 5000243734

**CONSTRUCTION  
 DETAILS**

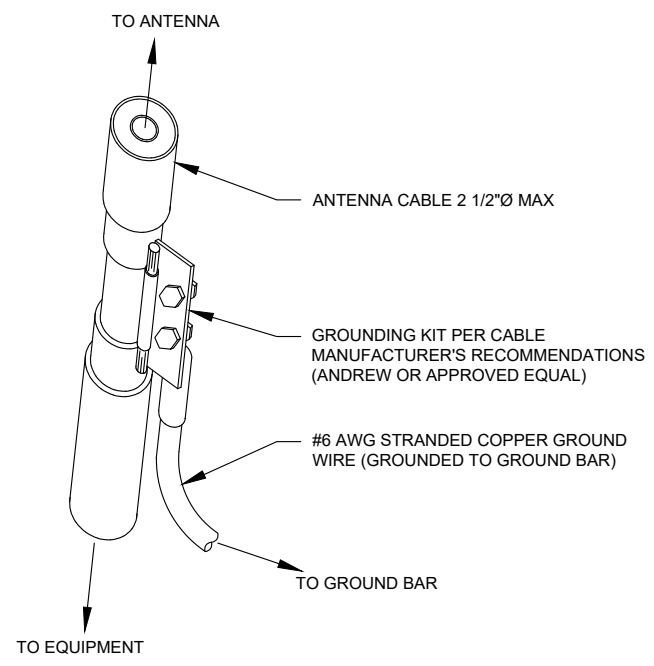
SHEET NUMBER: **C-501**  
 REVISION: **0**



**NOTES:**

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

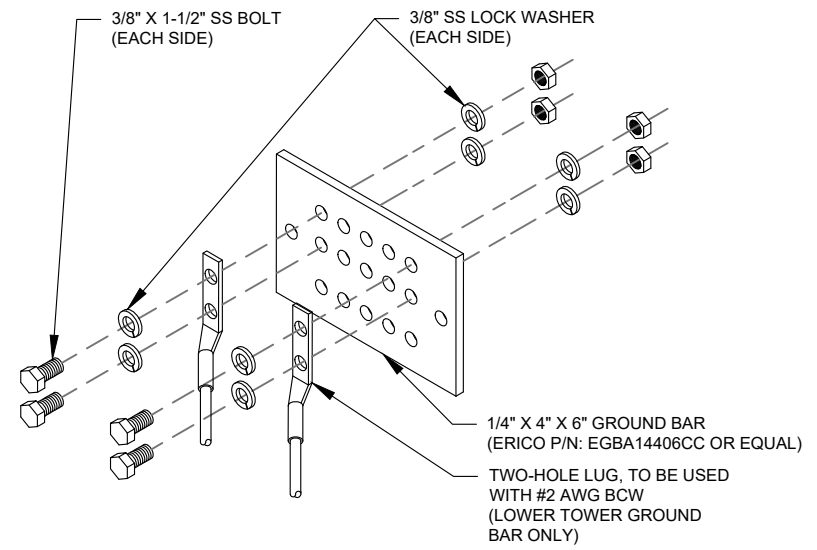
**1** TYPICAL ANTENNA GROUNDING DIAGRAM  
SCALE: N.T.S.



**GROUND KIT NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

**2** CABLE GROUND KIT CONNECTION DETAIL  
SCALE: N.T.S.



**GROUND BAR NOTES:**

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

**3** TOWER GROUND BAR DETAIL  
SCALE: N.T.S.



**AMERICAN TOWER®**  
**A.T. ENGINEERING SERVICES LLC**  
 3500 REGENCY PARKWAY  
 SUITE 100  
 CARY, NC 27518  
 PHONE: (919) 468-0112  
 PEC.0001553

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TJC	9/11/2023

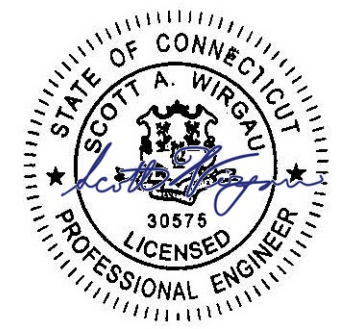
ATC SITE NUMBER:  
411177

ATC SITE NAME:  
BARKHAMSTEDW CT

VERIZON SITE NAME:  
BARKHAMSTED W CT

SITE ADDRESS:  
14 OLD NORTH ROAD  
BARKHAMSTED, CT 06063

SEAL:



Digitally Signed: 2023-09-12



ATC JOB NO:	14527572_G0
CUSTOMER ID:	BARKHAMSTED W CT
CUSTOMER #:	5000243734

**GROUNDING DETAILS**

SHEET NUMBER:	REVISION:
<b>E-501</b>	<b>0</b>

Copyright © 2023 ATC IP LLC, All Rights Reserved.



Colliers Engineering & Design CT, P.C.  
1055 Washington Boulevard  
Stamford, CT 06901  
203.324.0800

peter.albano@collierseng.com

Mount Structural Analysis Report  
(1) 14.17-Ft Platform

August 2, 2023  
Site ID: 5000243734-VZW / BARKHAMSTED W CT  
Page | 5

**Requirements:**

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 **upon the completion of the requirements listed below.**

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

Existing kicker kit and OVP pipe threaded rods at platform elevation shall be trimmed to extend no more than 1" beyond the lock nut. Treat all cut ends with (2) coats of cold galvanization (Zinga or Zinc Kote)

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. Contractor Required Post Installation Inspection (PMI) Report Deliverables
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

**Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements**

Mount ReAnalysis

SMART Tool Project #: 10208046  
Colliers Engineering & Design CT, P.C. #: 23777201

August 2, 2023

**Site Information**

Site ID: 5000243734-VZW / BARKHAMSTED W CT  
Site Name: BARKHAMSTED W CT  
Carrier Name: Verizon Wireless  
Address: 5 Old Farm Road  
Barkhamsted, Connecticut 06057  
Litchfield County  
Latitude: 41.914525°  
Longitude: -73.022331°

**Structure Information**

Tower Type: 147-Ft Monopole  
Mount Type: 14.17-Ft Platform

FUZE ID # 17123904

**Analysis Results**

Platform: 57.5% Pass w/ Hardware Upgrades\*

\* Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.

**\*\*\*Contractor PMI Requirements:**

Included at the end of this MA report  
Available & Submitted via portal at <https://pmi.vzwsmart.com>  
For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

Report Prepared By: Ismaias Recinos



NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SUPPLEMENTAL

SHEET NUMBER:  
**R-601**

REVISION:  
**0**

Copyright © 2023 ATC IP, LLC. All Rights Reserved.

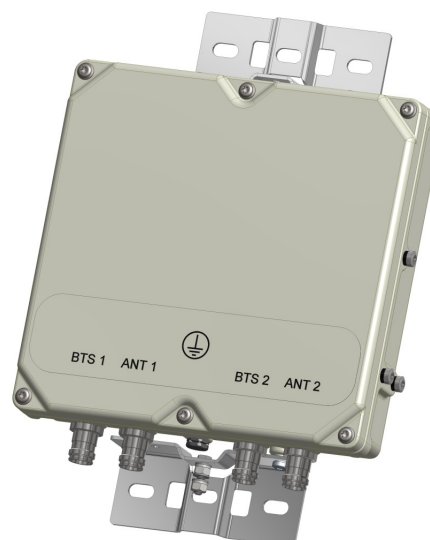
# KA-6030

## TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the KA-6030 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

### FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



### TECHNICAL SPECIFICATIONS

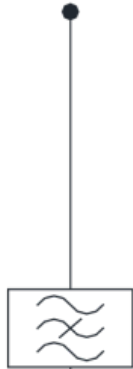
BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
<b>ELECTRICAL</b>		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
<b>DC / AISG</b>		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
<b>ENVIRONMENTAL</b>		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C   -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m   8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	
<b>MECHANICAL</b>		
Dimensions H x D x W	269 x 277 x 80mm   10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg   17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

## ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6030-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM

ANT1



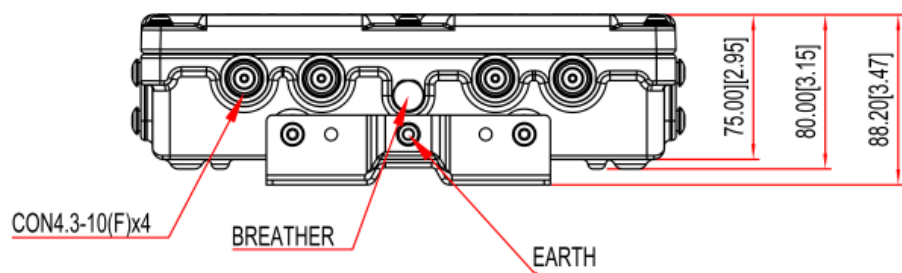
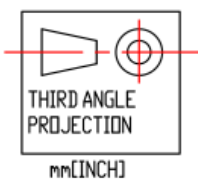
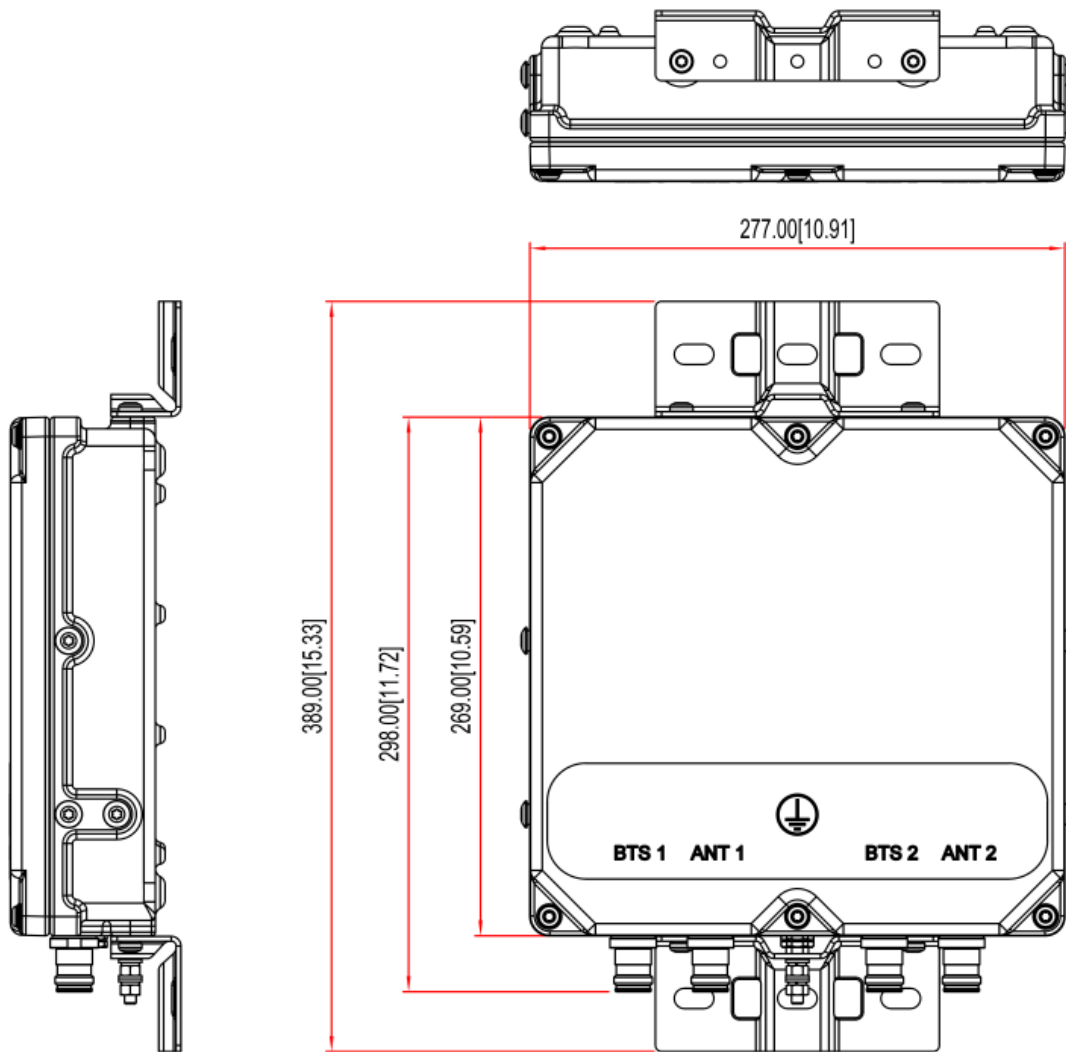
BTS1

ANT2



BTS2

MECHANICAL BLOCK DIAGRAM



# EXHIBIT 2





CURRENT OWNER		TOPO	UTILITIES	STRT / ROAD	LOCATION	CURRENT ASSESSMENT				6005 BARKHAMSTED, CT  <b>VISION</b>							
LAVIERI JOHN P  PO BOX 559  NEW HARTFORD CT 06057-0559		1 Level				Description	Code	Appraised	Assessed			FOREST 6-2 423,220 18,950					
		<b>SUPPLEMENTAL DATA</b>				Alt Prcl ID 20-12-16A B.P. Status Census Tr. Interior 100 Yr Flo DV Map # 890 GIS ID DV Lot # N/F LAVIERI Solar Ener BAA Callback PA490 Dat Assoc Pid#											
						Total		423,220	18,950								
RECORD OF OWNERSHIP		BK-VOL/PAGE	SALE DATE	Q/U	V/I	SALE PRICE	VC	PREVIOUS ASSESSMENTS (HISTORY)									
LAVIERI JOHN P		0079 0890	08-04-1988		V	0		Year	Code	Assessed	Year	Code	Assessed				
								2020	6-2	18,950	2019	6-2	18,950				
								Total		18950	Total		18950				
		Total		0.00													
EXEMPTIONS			OTHER ASSESSMENTS				This signature acknowledges a visit by a Data Collector or Assessor										
Year	Code	Description	Amount	Code	Description	Number	Amount	Comm Int									
								<b>APPRAISED VALUE SUMMARY</b>									
								Appraised Bldg. Value (Card)				0					
								Appraised Xf (B) Value (Bldg)				0					
								Appraised Ob (B) Value (Bldg)				0					
								Appraised Land Value (Card)				423,220					
								Total Appraised Parcel Value				423,220					
								Valuation Method				C					
								Total Appraised Parcel Value				423,220					
BUILDING PERMIT RECORD								VISIT / CHANGE HISTORY									
Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments	Date	Id	Type	Is	Cd	Purpost/Result			
									12-24-2018	MF			41	Hearing No Change			
									12-18-2013	FB			40	Hearing Change			
									01-10-2009	JQ			41	Hearing No Change			
									10-30-2008	JQ			50	Field Review			
									05-12-2008	DW	1		99	Vacant Land			
LAND LINE VALUATION SECTION																	
B	Use Code	Description	Zone	Land Type	Land Units	Unit Price	Size Adj	Site Index	Cond.	Nbhd.	Nbhd. Adj.	Notes	Special Use	Location Adjustment	Adj Unit Pri	Land Value	
1	610	Forest	RA-2		2.000 AC	60,192	0.57142	5	1.00	5	1.000	WETLANDS	490 240	1.00		68,790	
1	610	Forest	RA-2		110.760 AC	4,000	1.00000	0	0.80		1.000		490 240	1.00		354,430	
Total Card Land Units					112.760 AC	Parcel Total Land Area					112.7600 AC	Total Land Value					423,220

**CONSTRUCTION DETAIL** **CONSTRUCTION DETAIL (CONTINUED)**

Element	Cd	Description	Element	Cd	Description
Style:	99	Vacant Land			
Model:	00	Vacant			
Grade:					
Occupancy					
Exterior Wall 1					
Exterior Wall 2					
Roof Structure:					
Roof Cover					
Interior Wall 1					
Interior Wall 2					
Interior Flr 1					
Interior Flr 2					
Heat Fuel					
Heat Type:					
AC Type:					
Total Bedrooms					
Total Bthrms:					
Total Half Baths					
Total Rooms:					
Bath Style:					
Kitchen Style:					
Fireplace					
Whirlpool Tubs					
Fin Basement					
Fin Bsmt Qual					
Bsmt. Garages					
<b>MIXED USE</b>					
			Code	Description	Percentage
			610	Forest	100
					0
					0
<b>COST / MARKET VALUATION</b>					
			Adj. Base Rate		0
			RCN		
			Year Built		
			Depreciation Code		
			Remodel Rating		
			Year Remodeled		
			Depreciation %		
			Functional Obsol		
			External Obsol		
			Cost Trend Factor	1	
			Condition		
			Condition %		
			Percent Good		
			RCNLD		
			Dep % Ovr		
			Dep Ovr Comment		
			Misc Imp Ovr		
			Misc Imp Ovr Comment		
			Cost to Cure Ovr		
			Cost to Cure Ovr Comment		

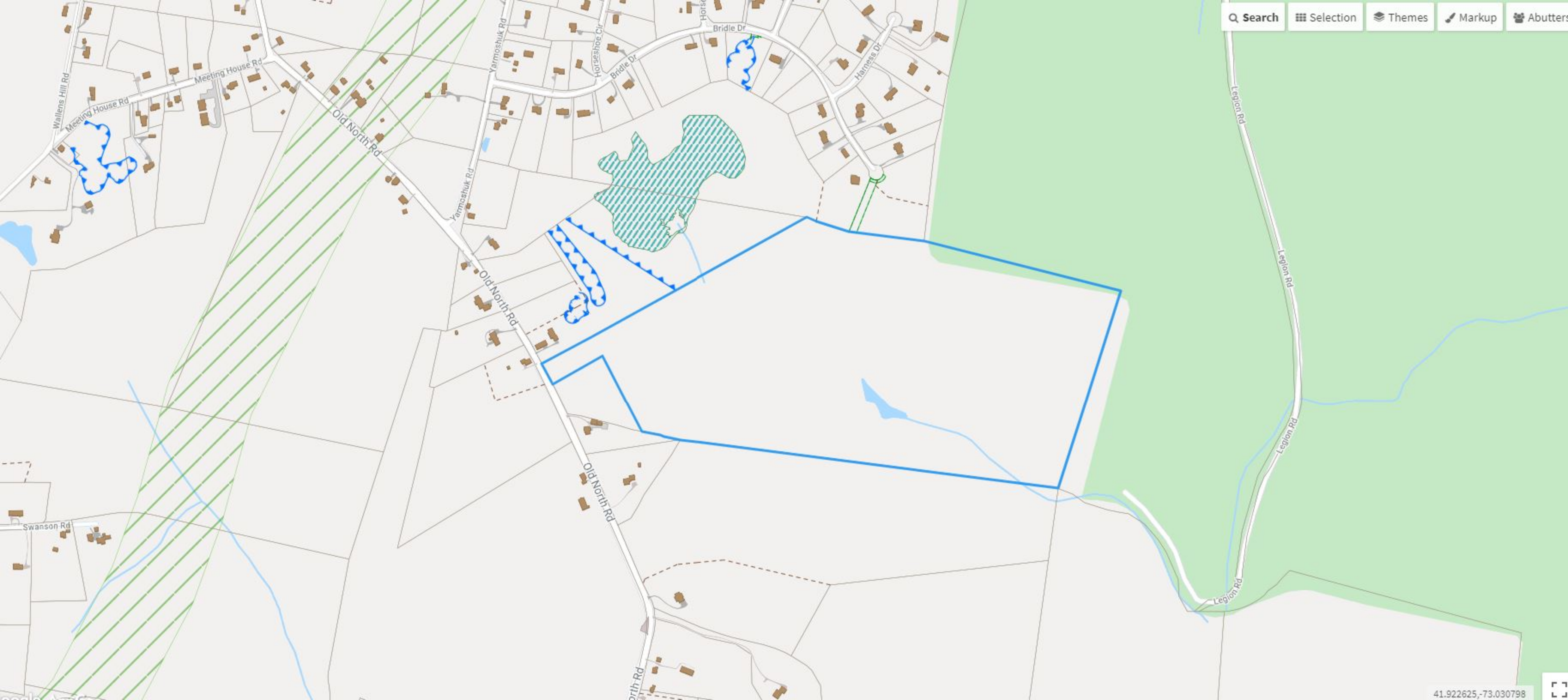
No Sketch

**OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)**

Cod	Description	Sub	Sub Desc	L/B	Units	Unit Price	Yr Blt	Cond.	% Gd	Grade	Grd A	Appr. Valu

**BUILDING SUB-AREA SUMMARY SECTION**

Code	Description	Living Area	Gross Area
Ttl Gross Liv / Lease Area		0	0



# EXHIBIT 3





**AMERICAN TOWER®**  
CORPORATION

## Structural Analysis Report

**Structure** : 144 ft Monopole  
**ATC Asset Name** : BARKHAMSTEDW CT  
**ATC Asset Number** : 411177  
**Engineering Number** : 14527572\_C3\_03  
**Proposed Carrier** : VERIZON WIRELESS  
**Carrier Site Name** : BARKHAMSTED W CT  
**Carrier Site Number** : 5000243734  
**Site Location** : 14 Old North Road  
Barkhamsted, CT 06063-3440  
41.9145° N, 73.0222° W  
**County** : Litchfield  
**Date** : September 6, 2023  
**Max Usage** : 77%  
**Analysis Result** : Pass

Created By:

Zach Stoll  
Structural Engineer



**COA: PEC.0001553**

## Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 144 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

## Supporting Documents

<b>Tower:</b>	EI Project #13841, dated December 8, 2005
<b>Foundation:</b>	EI Project #13841, dated December 8, 2005
<b>Geotechnical:</b>	JGI Project #05704G, dated November 30, 2005
<b>Modification:</b>	Centek Project #12063.CO32 Rev. 1, dated November 29, 2012

## Analysis

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

<b>Basic Wind Speed:</b>	115 mph (3-second gust)
<b>Basic Wind Speed w/ Ice:</b>	50 mph (3-second gust) w/ 1.00" radial ice concurrent
<b>Code(s):</b>	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
<b>Exposure Category:</b>	B
<b>Risk Category:</b>	II
<b>Topographic Factor Procedure:</b>	Method 1
<b>Topographic Category:</b>	1
<b>Spectral Response:</b>	$S_s = 0.17, S_i = 0.05$
<b>Site Class:</b>	D - Stiff Soil - Default

## Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

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

### Structure Usages

Structural Component	Usage	Control	Result
Pole Shaft	66.9%	1.2D + 1.0W	Pass
Reinforcement	77.4%	94.75 ft to 109.75 ft	Pass
Upper Termination	23.6%	94.75 ft to 109.75 ft	Pass
Intermediate Connector	8.3%	94.75 ft to 109.75 ft	Pass
Lower Termination	21.7%	94.75 ft to 109.75 ft	Pass
Base Plate @ 0.0 ft	45.7%	Rods	Pass
Mat & Pier	44.1%	Moment [Soil]	Pass

### Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	2,315.3	41.8	20.7

*\*Reactions shown reflect the results from the Load Case with maximum Moment*

Structure base reactions were analyzed using available geotechnical and foundation information.

**VERIZON WIRELESS Final Loading**

Elev (ft)	Qty	Equipment	Lines
146.0	1	VZW Unused Reserve (4347.44 sqin)	-
145.0	1	Platform with Handrails	(9) 1 5/8" Coax (2) 2.02 (51.2mm) Hybrid
	1	RFS DB-C1-12C-24AB-OZ	
	3	Samsung B2/B66A RRH-BR049	
	3	Samsung B5/B13 RRH-BR04C	
	3	Samsung MT6407-77A	
	4	Kaelus KA-6030	
	6	Antel LPA-70063-6CF-EDIN-X	
	6	Quintel QS6656-5D	

**Other Existing/Reserved Loading**

Elev (ft)	Qty	Equipment	Lines	Carrier
134.0	1	CCI DMP65R-BU4D	(2) 0.39" (10mm) Fiber Trunk (4) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (2) 2" conduit (6) 3/8" (0.38"- 9.5mm) RET Control Cable	AT&T MOBILITY
	1	CCI OPA65R-BU4DA-K		
	1	Platform with Handrails		
	2	CCI DMP65R-BU6DA		
	2	CCI OPA65R-BU6D		
	2	Raycap DC6-48-60-18-8F(32.8 lbs)		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14		
	3	Powerwave Allgon 7770.00		
	3	Powerwave Allgon LGP13519		
	6	Powerwave Allgon LGP21401		
125.0	3	Mount Reinforcement	-	-
	1	Platform with Handrails	(12) 1 5/8" Coax (1) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Ericsson 4480 BAND 71		
	3	Ericsson KRY 112 144/1		
	3	Ericsson KRY 112 71		
	3	RFS APX16DWV-16DWV-S-E-ACU		
	3	RFS APXVAALL24 43-U-NA20		

*(If table breaks across pages, please see previous page for data in merged cells)*



## **Standard Conditions**

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

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

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

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

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

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

**ANALYSIS PARAMETERS**

Nominal Wind: 115 mph	Ice Wind: 50 mph w/ 1" ice	Service Wind: 60 mph
Risk Category: II	Exposure: B	S <sub>s</sub> : 0.169 S <sub>i</sub> : 0.054
Topo Category: 1	Topo Factor: Method 1	Topo Feature:
Structure Height: 144 ft	Base Elevation: 0.00 ft	Structure Type: Taper
Base Diameter: 55 in	Base Rotation: 0°	Taper: 0.2670 (in/ft)

**POLE SECTION PROPERTIES**

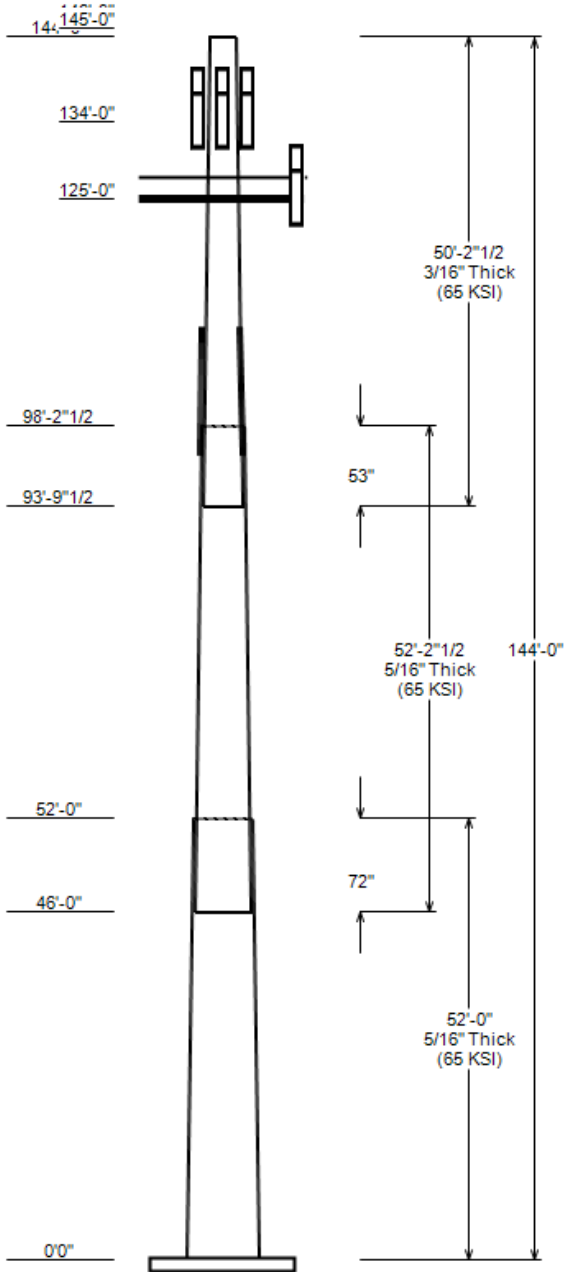
Section	Length (ft)	Flat Diameter (in)		Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
		Top	Bottom					
1	52.000	41.10	55.00	0.312		0.000	18 Sides	65
2	52.210	29.37	43.33	0.312	Slip Joint	72.000	18 Sides	65
3	50.207	17.50	30.92	0.188	Slip Joint	53.000	18 Sides	65

**DISCRETE APPURTENANCE**

Elev (ft)	Description
146.0	(1) VZW Unused Reserve (4347.44 sq
145.0	(4) Kaelus KA-6030
145.0	(3) Samsung B2/B66A RRH-BR049
145.0	(3) Samsung B5/B13 RRH-BR04C
145.0	(1) RFS DB-C1-12C-24AB-0Z
145.0	(3) Samsung MT6407-77A
145.0	(6) Quintel QS6656-5D
145.0	(6) Antel LPA-70063-6CF-EDIN-X
145.0	(1) Flat Platform with Round Handr
134.0	(3) Powerwave Allgon LGP13519
134.0	(6) Powerwave Allgon LGP21401
134.0	(2) Raycap DC6-48-60-18-8F(32.8 lb
134.0	(3) Ericsson RRUS 4478 B14
134.0	(3) Ericsson RRUS 4449 B5, B12
134.0	(3) Powerwave Allgon 7770.00
134.0	(1) CCI DMP65R-BU4D
134.0	(1) CCI OPA65R-BU4DA-K
134.0	(2) CCI DMP65R-BU6DA
134.0	(2) CCI OPA65R-BU6D
134.0	(1) Flat Platform with Round Handr
125.0	(3) Ericsson KRY 112 144/1
125.0	(3) Ericsson KRY 112 71
125.0	(3) Ericsson 4480 BAND 71
125.0	(3) Generic Mount Reinforcement
125.0	(3) RFS APX16DWV-16DWV-S-E-ACU
125.0	(3) RFS APXVAALL24 43-U-NA20
125.0	(1) Generic Round Platform with Ha

**LINEAR APPURTENANCE**

Elev To (ft)	Description
145.0	(2) 2.02 (51.2mm) Hybrid
145.0	(3) 1 5/8" Coax
145.0	(6) 1 5/8" Coax
134.0	(3) 3/8" (0.38"- 9.5mm) RET Control Cabl
134.0	(3) 3/8" (0.38"- 9.5mm) RET Control Cabl
134.0	(2) 2" conduit
134.0	(6) 1 5/8" Coax
134.0	(4) 0.78" (19.7mm) 8 AWG 6
134.0	(2) 0.39" (10mm) Fiber Trunk
125.0	(1) 1.99" (50.7mm) Hybrid
125.0	(6) 1 5/8" Coax
125.0	(6) 1 5/8" Coax
109.8	(1) Plate
109.8	(1) Plate
109.8	(1) Plate



**GLOBAL BASE REACTIONS**

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	2315.34	41.77	20.72
0.9D + 1.0W	2280.26	31.32	20.70
1.2D + 1.0Di + 1.0Wi	666.27	57.87	6.01
1.2D + 1.0Ev + 1.0Eh	134.15	41.67	1.05
0.9D - 1.0Ev + 1.0Eh	131.68	29.12	1.05
1.0D + 1.0W	558.85	34.83	5.04

ANALYSIS PARAMETERS

<b>Location:</b>	Litchfield County,CT	<b>Height:</b>	144 ft
<b>Type and Shape:</b>	Taper, 18 Sides	<b>Base Diameter:</b>	55.00 in
<b>Manufacturer:</b>	Undetermined	<b>Top Diameter:</b>	17.50 in
<b>K<sub>d</sub> (non-service):</b>	0.95	<b>Taper:</b>	0.2670 in/ft
<b>K<sub>e</sub>:</b>	0.97	<b>Rotation:</b>	0.000°

ICE & WIND PARAMETERS

<b>Risk Category:</b>	II	<b>Design Wind Speed:</b>	115 mph
<b>Exposure Category:</b>	B	<b>Design Wind Speed w/ Ice:</b>	50 mph
<b>Topo Factor Procedure:</b>	Method 1	<b>Design Ice Thickness:</b>	1.00 in
<b>Topographic Category:</b>	1	<b>Service Wind Speed:</b>	60 mph
<b>Crest Height:</b>	0 ft	<b>HMSL:</b>	814.00 ft

SEISMIC PARAMETERS

<b>Analysis Method:</b>	Equivalent Lateral Force Method		
<b>Site Class:</b>	D - Stiff Soil	<b>Period Based on Rayleigh Method (sec):</b>	2.68
<b>T<sub>L</sub> (sec):</b>	6	<b>P:</b>	1
<b>S<sub>s</sub>:</b>	0.169	<b>S<sub>1</sub>:</b>	0.054
<b>F<sub>a</sub>:</b>	1.600	<b>F<sub>v</sub>:</b>	2.400
<b>S<sub>ds</sub>:</b>	0.180	<b>S<sub>d1</sub>:</b>	0.086
		<b>C<sub>s</sub>:</b>	0.030
		<b>C<sub>s</sub> Max:</b>	0.030
		<b>C<sub>s</sub> Min:</b>	0.030

LOAD CASES

1.2D + 1.0W	115 mph Wind with No Ice
0.9D + 1.0W	115 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph Wind with 1" Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Section	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	52.00	0.3125	65		0.00	8,378	55.00	0.000	54.24	20,495.5	29.62	176.00	41.10	52.00	40.45	8,501.4	21.78	131.51	0.2674
2-18	52.21	0.3125	65	Slip	72.00	6,350	43.33	46.000	42.66	9,972.9	23.04	138.64	29.37	98.21	28.82	3,073.7	15.16	93.98	0.2674
3-18	50.21	0.1875	65	Slip	53.00	2,443	30.92	93.793	18.29	2,183.2	27.67	164.92	17.50	144.00	10.30	390.2	15.05	93.33	0.2674
<b>Total Shaft Weight</b>						<b>17,171</b>													

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Vert Ecc (ft)	No Ice			Ice				
				Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor		
146.00	VZW Unused Reserve (4347.44 sq	1	0.80	0.000	166.20	30.191	0.90	243.13	44.165	0.90	
145.00	Quintel QS6656-5D	6	0.75	0.000	88.00	8.133	0.74	220.37	9.985	0.74	
145.00	Antel LPA-70063-6CF-EDIN-X	6	0.75	0.000	27.00	9.732	0.75	200.37	11.552	0.75	
145.00	Flat Platform with Round Handr	1	1.00	0.000	2500.00	34.800	1.00	3657.12	50.907	1.00	
145.00	Samsung MT6407-77A	3	0.75	0.000	81.60	4.709	0.61	149.32	5.718	0.61	
145.00	Samsung B5/B13 RRH-BR04C	3	0.75	0.000	70.30	1.875	0.50	108.30	2.475	0.50	
145.00	RFS DB-C1-12C-24AB-0Z	1	0.75	0.000	32.00	4.056	0.50	116.44	4.963	0.50	
145.00	Kaelus KA-6030	4	0.75	0.000	17.60	0.963	0.50	33.26	1.397	0.50	
145.00	Samsung B2/B66A RRH-BR049	3	0.75	0.000	84.40	1.875	0.50	126.78	2.475	0.50	
134.00	Flat Platform with Round Handr	1	1.00	0.000	2500.00	34.800	1.00	3648.70	50.790	1.00	
134.00	CCI OPA65R-BU6D	2	0.75	0.000	63.20	12.871	0.72	235.58	14.716	0.72	
134.00	CCI DMP65R-BU6DA	2	0.75	0.000	79.40	12.709	0.72	249.30	14.548	0.72	
134.00	CCI OPA65R-BU4DA-K	1	0.75	0.000	52.50	8.435	1.00	173.40	9.780	1.00	
134.00	Powerwave Allgon 7770.00	3	0.75	3.000	35.00	5.508	0.65	109.97	6.910	0.65	
134.00	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	113.51	2.584	0.50	
134.00	Ericsson RRUS 4478 B14	3	0.75	0.000	59.90	1.842	0.50	96.37	2.434	0.50	
134.00	Raycap DC6-48-60-18-8F(32.8 lb	2	0.75	3.000	32.80	1.470	0.50	73.49	1.931	0.50	
134.00	Powerwave Allgon LGP21401	6	0.75	0.000	14.10	1.104	0.50	30.56	1.575	0.50	
134.00	Powerwave Allgon LGP13519	3	0.75	0.000	5.30	0.290	0.50	11.55	0.545	0.50	
134.00	CCI DMP65R-BU4D	1	0.75	0.000	67.90	8.280	1.00	187.02	9.615	1.00	
125.00	RFS APXVAALL24 43-U-NA20	3	0.75	0.000	122.80	20.243	0.63	377.79	22.671	0.63	
125.00	RFS APX16DWV-16DWV-S-E-ACU	3	0.75	2.000	39.60	6.077	0.60	93.29	7.424	0.60	
125.00	Generic Mount Reinforcement	3	1.00	0.000	200.00	4.980	1.00	326.69	8.235	1.00	
125.00	Ericsson 4480 BAND 71	3	0.75	0.000	81.00	2.878	0.67	130.83	3.613	0.67	
125.00	Ericsson KRY 112 71	3	0.75	2.000	13.20	0.583	0.50	25.19	0.946	0.50	
125.00	Ericsson KRY 112 144/1	3	0.75	2.000	11.00	0.351	0.50	18.04	0.617	0.50	
125.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	3560.34	43.202	1.00	
<b>Totals</b>		<b>Row Count: 27</b>	<b>74</b>			<b>11,639.70</b>			<b>20,606.62</b>		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg): 0.00

Elev From (ft)	Elev To (ft)	Qty	Description	Diameter (in)	Weight (lb/ft)	Flat	Max/Row	Distance Between Rows(in)	Distance Between Cols(in)	Azimuth (deg)	Distance From Face (in)	Exposed To Wind	Carrier
0.00	145.00	6	1 5/8" Coax	1.98	0.82	N	6	1	1	320	1	Y	VERIZON WIRELESS
0.00	145.00	3	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	145.00	2	2.02 (51.2mm) Hybrid	2.02	3.04	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	134.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	134.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	134.00	3	3/8" (0.38"- 9.5mm) R	0.38	0.23	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	134.00	3	3/8" (0.38"- 9.5mm) R	0.38	0.23	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	134.00	2	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	134.00	2	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	125.00	6	1 5/8" Coax	1.98	0.82	N	6	1	1	80	1	N	T-MOBILE
0.00	125.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	T-MOBILE
0.00	125.00	1	1.99" (50.7mm) Hybrid	1.99	1.9	N	0	0	0	0	0	N	T-MOBILE
94.80	109.80	1	Plate	0.75	0	Y	1	0	0	0	0	Y	
94.80	109.80	1	Plate	0.75	0	Y	1	0	0	240	0	Y	
94.80	109.80	1	Plate	0.75	0	Y	1	0	0	120	0	Y	

ADDITIONAL STEEL

Intermediate Connectors

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Bracket Type	Spacing (in)	Length (in)	Connectors	Continuation?
94.75	109.75	3	PL PL 4 x 0.75"	50	0.00	AJAX M20 Class 8.8	12.00		AJAX M20 Class 8.8	N

SEGMENT PROPERTIES

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	F'y (ksi)	S (in <sup>3</sup> )	Z (in <sup>3</sup> )	Weight (lb)	Additional Reinforcing		
												Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	Weight (lb)
0.00		0.3125	55.000	54.241	20,495.5	29.62	176.00	66.6	734.0	0.0	0.0			
5.00		0.3125	53.663	52.915	19,028.9	28.87	171.72	67.4	698.4	0.0	911.6			
10.00		0.3125	52.326	51.589	17,634.1	28.11	167.44	68.3	663.8	0.0	889.0			
15.00		0.3125	50.990	50.264	16,309.1	27.36	163.17	69.2	630.0	0.0	866.5			
20.00		0.3125	49.653	48.938	15,052.2	26.61	158.89	70.1	597.1	0.0	843.9			
25.00		0.3125	48.316	47.612	13,861.6	25.85	154.61	71	565.1	0.0	821.3			
30.00		0.3125	46.979	46.286	12,735.5	25.10	150.33	71.9	533.9	0.0	798.8			
35.00		0.3125	45.642	44.960	11,672.1	24.34	146.06	72.8	503.7	0.0	776.2			
40.00		0.3125	44.306	43.634	10,669.6	23.59	141.78	73.7	474.3	0.0	753.7			
45.00		0.3125	42.969	42.308	9,726.20	22.83	137.50	74.5	445.8	0.0	731.1			
46.00	Bot - Section 2	0.3125	42.701	42.043	9,544.50	22.68	136.64	74.7	440.2	0.0	143.5			
50.00		0.3125	41.632	40.982	8,840.10	22.08	133.22	75.4	418.2	0.0	1,138.5			
52.00	Top - Section 1	0.3125	41.722	41.072	8,898.20	22.13	133.51	75.4	420.1	0.0	558.4			
55.00		0.3125	40.920	40.276	8,391.10	21.68	130.94	75.9	403.9	0.0	415.2			
60.00		0.3125	39.583	38.950	7,589.40	20.92	126.67	76.8	377.6	0.0	674.0			
65.00		0.3125	38.247	37.625	6,840.40	20.17	122.39	77.7	352.3	0.0	651.4			
70.00		0.3125	36.910	36.299	6,142.40	19.42	118.11	78.6	327.8	0.0	628.9			
75.00		0.3125	35.573	34.973	5,493.60	18.66	113.83	79.5	304.2	0.0	606.3			
80.00		0.3125	34.236	33.647	4,892.20	17.91	109.56	80.3	281.4	0.0	583.7			
85.00		0.3125	32.899	32.321	4,336.30	17.15	105.28	81.2	259.6	0.0	561.2			
90.00		0.3125	31.563	30.995	3,824.30	16.40	101.00	82.1	238.6	0.0	538.6			
93.79	Bot - Section 3	0.3125	30.548	29.989	3,463.90	15.83	97.75	82.6	223.3	0.0	393.6			
94.75	Reinf Bottom	0.3125	30.293	29.735	3,376.70	15.68	96.94	82.6	219.6	0.0	156.5			
95.00		0.3125	30.226	29.669	3,354.20	15.64	96.72	82.6	218.6	0.0	40.7	9.000	1,111.90	7.7
98.21	Top - Section 2	0.1875	29.743	17.588	1,941.10	26.56	158.63	70.2	128.5	0.0	514.3	9.000	1,052.20	98.3
100.00		0.1875	29.264	17.304	1,848.30	26.11	156.07	70.7	124.4	0.0	106.3	9.000	1,019.70	54.8
105.00		0.1875	27.927	16.508	1,604.90	24.85	148.95	72.2	113.2	0.0	287.6	9.000	931.40	153.1
109.75	Reinf. Top	0.1875	26.657	15.752	1,394.40	23.66	142.17	73.6	103.0	0.0	260.7	9.000	851.30	145.5
110.00		0.1875	26.590	15.712	1,383.90	23.60	141.82	73.6	102.5	0.0	13.4			
115.00		0.1875	25.254	14.917	1,184.10	22.34	134.69	75.1	92.4	0.0	260.6			
120.00		0.1875	23.917	14.121	1,004.60	21.08	127.56	76.6	82.7	0.0	247.0			
125.00		0.1875	22.580	13.326	844.20	19.82	120.43	78.1	73.6	0.0	233.5			
130.00		0.1875	21.243	12.530	701.90	18.57	113.30	79.6	65.1	0.0	220.0			
134.00		0.1875	20.174	11.894	600.30	17.56	107.59	80.7	58.6	0.0	166.2			
135.00		0.1875	19.906	11.735	576.50	17.31	106.17	81	57.0	0.0	40.2			
140.00		0.1875	18.570	10.939	467.00	16.05	99.04	82.5	49.5	0.0	192.9			
144.00		0.1875	17.500	10.303	390.20	15.05	93.33	82.6	43.9	0.0	144.6			
<b>Totals:</b>											<b>17,169.9</b>	<b>459.4</b>		

CALCULATED FORCES

Load Case: 1.2D + 1.0W													115 mph Wind with No Ice		24 Iterations	
Gust Response Factor:		1.10														
Dead load Factor:		1.20														
Wind Load Factor:		1.00														
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio			
0.00	-41.77	-20.72	0.00	-2,315.3	0.00	2,315.34	3,249.22	951.93	4,701.78	3,663.92	0	0	0.645			
5.00	-40.37	-20.43	0.00	-2,211.8	0.00	2,211.75	3,212.04	928.66	4,474.75	3,532.96	0.08	-0.16	0.639			
10.00	-39.00	-20.15	0.00	-2,109.6	0.00	2,109.60	3,172.75	905.39	4,253.33	3,401.79	0.34	-0.32	0.633			
15.00	-37.66	-19.87	0.00	-2,008.9	0.00	2,008.87	3,131.34	882.13	4,037.53	3,270.59	0.76	-0.48	0.627			
20.00	-36.34	-19.60	0.00	-1,909.5	0.00	1,909.52	3,087.81	858.86	3,827.35	3,139.53	1.36	-0.66	0.621			
25.00	-35.05	-19.33	0.00	-1,811.5	0.00	1,811.52	3,042.17	835.59	3,622.79	3,008.79	2.14	-0.83	0.614			

CALCULATED FORCES

30.00	-33.79	-19.07	0.00	-1,714.9	0.00	1,714.86	2,994.41	812.32	3,423.84	2,878.54	3.11	-1.01	0.608
35.00	-32.56	-18.80	0.00	-1,619.5	0.00	1,619.51	2,944.53	789.05	3,230.51	2,748.97	4.27	-1.2	0.601
40.00	-31.35	-18.52	0.00	-1,525.5	0.00	1,525.51	2,892.53	765.78	3,042.80	2,620.24	5.63	-1.39	0.594
45.00	-30.19	-18.34	0.00	-1,432.9	0.00	1,432.90	2,838.42	742.51	2,860.71	2,492.54	7.19	-1.59	0.586
46.00	-29.94	-18.21	0.00	-1,414.6	0.00	1,414.56	2,827.34	737.85	2,824.97	2,467.14	7.52	-1.63	0.585
50.00	-28.35	-18.01	0.00	-1,341.7	0.00	1,341.73	2,782.19	719.24	2,684.24	2,366.04	8.96	-1.79	0.578
52.00	-27.55	-17.85	0.00	-1,305.7	0.00	1,305.72	2,786.05	720.81	2,695.98	2,374.54	9.73	-1.88	0.560
55.00	-26.86	-17.62	0.00	-1,252.2	0.00	1,252.17	2,751.38	706.85	2,592.56	2,299.23	10.95	-2.01	0.555
60.00	-25.76	-17.31	0.00	-1,164.1	0.00	1,164.08	2,691.91	683.58	2,424.70	2,174.91	13.16	-2.21	0.545
65.00	-24.68	-17.01	0.00	-1,077.5	0.00	1,077.50	2,630.31	660.31	2,262.45	2,052.24	15.59	-2.42	0.535
70.00	-23.63	-16.71	0.00	-992.4	0.00	992.45	2,566.60	637.04	2,105.82	1,931.38	18.24	-2.64	0.524
75.00	-22.61	-16.41	0.00	-908.9	0.00	908.92	2,500.77	613.77	1,954.81	1,812.53	21.12	-2.86	0.511
80.00	-21.62	-16.11	0.00	-826.9	0.00	826.89	2,432.83	590.50	1,809.42	1,695.84	24.23	-3.08	0.497
85.00	-20.65	-15.81	0.00	-746.4	0.00	746.37	2,362.77	567.23	1,669.64	1,581.51	27.58	-3.31	0.481
90.00	-19.72	-15.54	0.00	-667.3	0.00	667.32	2,290.59	543.96	1,535.49	1,469.71	31.17	-3.54	0.463
93.79	-19.04	-15.39	0.00	-608.4	0.00	608.36	2,228.05	526.31	1,437.45	1,382.72	34.06	-3.72	0.449
94.75	-18.80	-15.34	0.00	-593.6	0.00	593.64	2,209.20	521.86	1,413.24	1,359.31	34.81	-3.77	0.446
95.00	-18.72	-15.25	0.00	-589.8	0.00	589.81	2,204.27	520.69	1,406.95	1,353.22	35.01	-3.78	0.335
98.21	-17.82	-15.07	0.00	-540.8	0.00	540.85	1,110.63	308.68	823.97	676.41	37.59	-3.9	0.532
100.00	-17.51	-14.89	0.00	-513.9	0.00	513.88	1,100.89	303.68	797.50	659.55	39.06	-3.96	0.515
105.00	-16.70	-14.61	0.00	-439.4	0.00	439.44	1,072.24	289.72	725.86	612.66	43.34	-4.2	0.466
109.75	-15.96	-14.44	0.00	-370.0	0.00	370.05	1,043.07	276.45	660.93	568.53	47.63	-4.42	0.417
109.75	-15.96	-14.44	0.00	-370.0	0.00	370.05	1,043.07	276.45	660.93	568.53	47.63	-4.42	0.669
110.00	-15.90	-14.34	0.00	-366.4	0.00	366.44	1,041.48	275.75	657.60	566.22	47.86	-4.43	0.665
115.00	-15.28	-14.11	0.00	-294.7	0.00	294.73	1,008.60	261.79	592.70	520.38	52.68	-4.77	0.584
120.00	-14.69	-13.87	0.00	-224.2	0.00	224.19	973.60	247.83	531.17	475.34	57.84	-5.08	0.490
125.00	-9.76	-10.14	0.00	-154.2	0.00	154.15	936.49	233.87	473.02	431.26	63.3	-5.35	0.370
130.00	-9.31	-9.90	0.00	-103.4	0.00	103.44	897.25	219.91	418.23	388.32	69.02	-5.56	0.279
134.00	-5.05	-5.96	0.00	-62.8	0.00	62.84	864.34	208.74	376.83	354.91	73.73	-5.7	0.184
135.00	-4.99	-5.80	0.00	-56.9	0.00	56.88	855.90	205.95	366.82	346.70	74.93	-5.73	0.171
140.00	-4.70	-5.53	0.00	-27.9	0.00	27.87	812.44	191.98	318.78	306.57	80.98	-5.83	0.098
144.00	0.00	-5.02	0.00	-5.7	0.00	5.74	765.45	180.81	282.77	271.87	85.88	-5.87	0.022

CALCULATED FORCES

Load Case: 0.9D + 1.0W

115 mph Wind with No Ice (Reduced DL)

24 Iterations

Gust Response Factor: 1.10  
 Dead load Factor: 0.90  
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-31.32	-20.70	0.00	-2,280.3	0.00	2,280.26	3,249.22	951.93	4,701.78	3,663.92	0	0	0.632
5.00	-30.26	-20.39	0.00	-2,176.7	0.00	2,176.74	3,212.04	928.66	4,474.75	3,532.96	0.08	-0.15	0.626
10.00	-29.22	-20.08	0.00	-2,074.8	0.00	2,074.82	3,172.75	905.39	4,253.33	3,401.79	0.33	-0.31	0.620
15.00	-28.20	-19.77	0.00	-1,974.4	0.00	1,974.44	3,131.34	882.13	4,037.53	3,270.59	0.75	-0.48	0.613
20.00	-27.20	-19.47	0.00	-1,875.6	0.00	1,875.59	3,087.81	858.86	3,827.35	3,139.53	1.34	-0.64	0.607
25.00	-26.22	-19.18	0.00	-1,778.2	0.00	1,778.22	3,042.17	835.59	3,622.79	3,008.79	2.1	-0.82	0.600
30.00	-25.26	-18.90	0.00	-1,682.3	0.00	1,682.30	2,994.41	812.32	3,423.84	2,878.54	3.06	-1	0.593
35.00	-24.32	-18.60	0.00	-1,587.8	0.00	1,587.82	2,944.53	789.05	3,230.51	2,748.97	4.2	-1.18	0.586
40.00	-23.41	-18.31	0.00	-1,494.8	0.00	1,494.80	2,892.53	765.78	3,042.80	2,620.24	5.53	-1.37	0.579
45.00	-22.53	-18.11	0.00	-1,403.3	0.00	1,403.28	2,838.42	742.51	2,860.71	2,492.54	7.06	-1.56	0.572
46.00	-22.34	-17.97	0.00	-1,385.2	0.00	1,385.16	2,827.34	737.85	2,824.97	2,467.14	7.4	-1.6	0.570
50.00	-21.13	-17.76	0.00	-1,313.3	0.00	1,313.29	2,782.19	719.24	2,684.24	2,366.04	8.8	-1.76	0.563
52.00	-20.53	-17.60	0.00	-1,277.8	0.00	1,277.77	2,786.05	720.81	2,695.98	2,374.54	9.56	-1.84	0.546
55.00	-20.01	-17.35	0.00	-1,225.0	0.00	1,224.97	2,751.38	706.85	2,592.56	2,299.23	10.76	-1.97	0.541
60.00	-19.17	-17.03	0.00	-1,138.2	0.00	1,138.22	2,691.91	683.58	2,424.70	2,174.91	12.93	-2.17	0.531
65.00	-18.35	-16.71	0.00	-1,053.1	0.00	1,053.06	2,630.31	660.31	2,262.45	2,052.24	15.31	-2.38	0.521
70.00	-17.55	-16.40	0.00	-969.5	0.00	969.49	2,566.60	637.04	2,105.82	1,931.38	17.91	-2.59	0.509
75.00	-16.78	-16.08	0.00	-887.5	0.00	887.50	2,500.77	613.77	1,954.81	1,812.53	20.73	-2.8	0.497
80.00	-16.02	-15.77	0.00	-807.1	0.00	807.08	2,432.83	590.50	1,809.42	1,695.84	23.78	-3.02	0.483
85.00	-15.29	-15.47	0.00	-728.2	0.00	728.21	2,362.77	567.23	1,669.64	1,581.51	27.06	-3.24	0.468
90.00	-14.58	-15.20	0.00	-650.9	0.00	650.88	2,290.59	543.96	1,535.49	1,469.71	30.58	-3.47	0.450
93.79	-14.07	-15.04	0.00	-593.2	0.00	593.23	2,228.05	526.31	1,437.45	1,382.72	33.41	-3.64	0.436
94.75	-13.89	-15.00	0.00	-578.8	0.00	578.84	2,209.20	521.86	1,413.24	1,359.31	34.14	-3.69	0.433
95.00	-13.83	-14.90	0.00	-575.1	0.00	575.09	2,204.27	520.69	1,406.95	1,353.22	34.34	-3.7	0.325
98.21	-13.15	-14.72	0.00	-527.3	0.00	527.26	1,110.63	308.68	823.97	676.41	36.86	-3.82	0.516
100.00	-12.91	-14.54	0.00	-500.9	0.00	500.90	1,100.89	303.68	797.50	659.55	38.31	-3.88	0.499
105.00	-12.30	-14.26	0.00	-428.2	0.00	428.21	1,072.24	289.72	725.86	612.66	42.49	-4.11	0.452
109.75	-11.74	-14.09	0.00	-360.5	0.00	360.50	1,043.07	276.45	660.93	568.53	46.69	-4.32	0.403
109.75	-11.74	-14.09	0.00	-360.5	0.00	360.50	1,043.07	276.45	660.93	568.53	46.69	-4.32	0.648
110.00	-11.69	-13.98	0.00	-357.0	0.00	356.97	1,041.48	275.75	657.60	566.22	46.91	-4.33	0.644
115.00	-11.21	-13.73	0.00	-287.1	0.00	287.08	1,008.60	261.79	592.70	520.38	51.63	-4.66	0.566
120.00	-10.76	-13.49	0.00	-218.4	0.00	218.40	973.60	247.83	531.17	475.34	56.67	-4.97	0.473
125.00	-7.12	-9.87	0.00	-150.3	0.00	150.28	936.49	233.87	473.02	431.26	62.01	-5.23	0.358
130.00	-6.79	-9.63	0.00	-100.9	0.00	100.92	897.25	219.91	418.23	388.32	67.6	-5.44	0.269
134.00	-3.66	-5.82	0.00	-61.4	0.00	61.39	864.34	208.74	376.83	354.91	72.21	-5.57	0.178
135.00	-3.62	-5.65	0.00	-55.6	0.00	55.57	855.90	205.95	366.82	346.70	73.38	-5.6	0.165
140.00	-3.41	-5.39	0.00	-27.3	0.00	27.30	812.44	191.98	318.78	306.57	79.3	-5.7	0.094
144.00	0.00	-5.02	0.00	-5.7	0.00	5.74	765.45	180.81	282.77	271.87	84.09	-5.74	0.022

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi      50 mph Wind with 1" Radial Ice      23 Iterations  
 Gust Response Factor: 1.10      Ice Dead Load Factor: 1.00  
 Dead load Factor: 1.20      Ice Importance Factor: 1.00  
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-57.87	-6.01	0.00	-666.3	0.00	666.27	3,249.22	951.93	4,701.78	3,663.92	0	0	0.200
5.00	-56.19	-5.93	0.00	-636.2	0.00	636.23	3,212.04	928.66	4,474.75	3,532.96	0.02	-0.05	0.198
10.00	-54.52	-5.84	0.00	-606.6	0.00	606.60	3,172.75	905.39	4,253.33	3,401.79	0.1	-0.09	0.196
15.00	-52.87	-5.76	0.00	-577.4	0.00	577.39	3,131.34	882.13	4,037.53	3,270.59	0.22	-0.14	0.193
20.00	-51.23	-5.68	0.00	-548.6	0.00	548.57	3,087.81	858.86	3,827.35	3,139.53	0.39	-0.19	0.191
25.00	-49.63	-5.61	0.00	-520.2	0.00	520.16	3,042.17	835.59	3,622.79	3,008.79	0.62	-0.24	0.189
30.00	-48.05	-5.53	0.00	-492.1	0.00	492.13	2,994.41	812.32	3,423.84	2,878.54	0.89	-0.29	0.187
35.00	-46.50	-5.45	0.00	-464.5	0.00	464.48	2,944.53	789.05	3,230.51	2,748.97	1.23	-0.34	0.185
40.00	-44.98	-5.37	0.00	-437.2	0.00	437.24	2,892.53	765.78	3,042.80	2,620.24	1.62	-0.4	0.182
45.00	-43.50	-5.31	0.00	-410.4	0.00	410.40	2,838.42	742.51	2,860.71	2,492.54	2.07	-0.46	0.180
46.00	-43.20	-5.27	0.00	-405.1	0.00	405.09	2,827.34	737.85	2,824.97	2,467.14	2.16	-0.47	0.180
50.00	-41.35	-5.21	0.00	-384.0	0.00	384.00	2,782.19	719.24	2,684.24	2,366.04	2.57	-0.51	0.177
52.00	-40.43	-5.17	0.00	-373.6	0.00	373.58	2,786.05	720.81	2,695.98	2,374.54	2.8	-0.54	0.172
55.00	-39.57	-5.10	0.00	-358.1	0.00	358.08	2,751.38	706.85	2,592.56	2,299.23	3.15	-0.58	0.170
60.00	-38.17	-5.00	0.00	-332.6	0.00	332.60	2,691.91	683.58	2,424.70	2,174.91	3.78	-0.63	0.167
65.00	-36.79	-4.91	0.00	-307.6	0.00	307.58	2,630.31	660.31	2,262.45	2,052.24	4.48	-0.69	0.164
70.00	-35.46	-4.82	0.00	-283.0	0.00	283.03	2,566.60	637.04	2,105.82	1,931.38	5.24	-0.76	0.160
75.00	-34.15	-4.72	0.00	-259.0	0.00	258.95	2,500.77	613.77	1,954.81	1,812.53	6.06	-0.82	0.157
80.00	-32.88	-4.63	0.00	-235.3	0.00	235.33	2,432.83	590.50	1,809.42	1,695.84	6.96	-0.88	0.152
85.00	-31.65	-4.54	0.00	-212.2	0.00	212.17	2,362.77	567.23	1,669.64	1,581.51	7.91	-0.95	0.148
90.00	-30.44	-4.46	0.00	-189.5	0.00	189.48	2,290.59	543.96	1,535.49	1,469.71	8.94	-1.01	0.142
93.79	-29.56	-4.41	0.00	-172.6	0.00	172.58	2,228.05	526.31	1,437.45	1,382.72	9.77	-1.06	0.138
94.75	-29.26	-4.39	0.00	-168.4	0.00	168.37	2,209.20	521.86	1,413.24	1,359.31	9.98	-1.08	0.137
95.00	-29.18	-4.36	0.00	-167.3	0.00	167.27	2,204.27	520.69	1,406.95	1,353.22	10.04	-1.08	0.103
98.21	-28.08	-4.30	0.00	-153.3	0.00	153.27	1,110.63	308.68	823.97	676.41	10.78	-1.11	0.164
100.00	-27.69	-4.25	0.00	-145.6	0.00	145.56	1,100.89	303.68	797.50	659.55	11.2	-1.13	0.159
105.00	-26.62	-4.16	0.00	-124.3	0.00	124.33	1,072.24	289.72	725.86	612.66	12.42	-1.2	0.145
109.75	-25.62	-4.10	0.00	-104.6	0.00	104.58	1,043.07	276.45	660.93	568.53	13.65	-1.26	0.130
109.75	-25.62	-4.10	0.00	-104.6	0.00	104.58	1,043.07	276.45	660.93	568.53	13.65	-1.26	0.209
110.00	-25.57	-4.07	0.00	-103.6	0.00	103.56	1,041.48	275.75	657.60	566.22	13.72	-1.26	0.208
115.00	-24.74	-4.00	0.00	-83.2	0.00	83.19	1,008.60	261.79	592.70	520.38	15.09	-1.36	0.185
120.00	-23.94	-3.93	0.00	-63.2	0.00	63.18	973.60	247.83	531.17	475.34	16.56	-1.45	0.158
125.00	-16.49	-2.86	0.00	-43.4	0.00	43.39	936.49	233.87	473.02	431.26	18.12	-1.52	0.118
130.00	-15.81	-2.78	0.00	-29.1	0.00	29.07	897.25	219.91	418.23	388.32	19.75	-1.58	0.093
134.00	-8.88	-1.73	0.00	-17.7	0.00	17.70	864.34	208.74	376.83	354.91	21.1	-1.62	0.060
135.00	-8.77	-1.67	0.00	-16.0	0.00	15.97	855.90	205.95	366.82	346.70	21.44	-1.63	0.056
140.00	-8.24	-1.54	0.00	-7.6	0.00	7.62	812.44	191.98	318.78	306.57	23.16	-1.66	0.035
144.00	0.00	-1.30	0.00	-1.5	0.00	1.46	765.45	180.81	282.77	271.87	24.56	-1.67	0.005



CALCULATED FORCES

Load Case: 1.0D + 1.0W

60 mph Wind with No Ice

23 Iterations

Gust Response Factor: 1.10  
 Dead load Factor: 1.00  
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-34.83	-5.04	0.00	-558.8	0.00	558.85	3,249.22	951.93	4,701.78	3,663.92	0	0	0.163
5.00	-33.71	-4.97	0.00	-533.6	0.00	533.63	3,212.04	928.66	4,474.75	3,532.96	0.02	-0.04	0.162
10.00	-32.61	-4.90	0.00	-508.8	0.00	508.79	3,172.75	905.39	4,253.33	3,401.79	0.08	-0.08	0.160
15.00	-31.53	-4.82	0.00	-484.3	0.00	484.32	3,131.34	882.13	4,037.53	3,270.59	0.18	-0.12	0.158
20.00	-30.48	-4.75	0.00	-460.2	0.00	460.20	3,087.81	858.86	3,827.35	3,139.53	0.33	-0.16	0.156
25.00	-29.45	-4.68	0.00	-436.4	0.00	436.43	3,042.17	835.59	3,622.79	3,008.79	0.52	-0.2	0.155
30.00	-28.44	-4.62	0.00	-413.0	0.00	413.01	2,994.41	812.32	3,423.84	2,878.54	0.75	-0.24	0.153
35.00	-27.45	-4.55	0.00	-389.9	0.00	389.93	2,944.53	789.05	3,230.51	2,748.97	1.03	-0.29	0.151
40.00	-26.49	-4.48	0.00	-367.2	0.00	367.19	2,892.53	765.78	3,042.80	2,620.24	1.36	-0.34	0.149
45.00	-25.55	-4.43	0.00	-344.8	0.00	344.80	2,838.42	742.51	2,860.71	2,492.54	1.73	-0.38	0.147
46.00	-25.36	-4.40	0.00	-340.4	0.00	340.37	2,827.34	737.85	2,824.97	2,467.14	1.81	-0.39	0.147
50.00	-24.06	-4.35	0.00	-322.8	0.00	322.78	2,782.19	719.24	2,684.24	2,366.04	2.16	-0.43	0.145
52.00	-23.42	-4.31	0.00	-314.1	0.00	314.09	2,786.05	720.81	2,695.98	2,374.54	2.35	-0.45	0.141
55.00	-22.87	-4.25	0.00	-301.2	0.00	301.16	2,751.38	706.85	2,592.56	2,299.23	2.64	-0.48	0.139
60.00	-21.99	-4.17	0.00	-279.9	0.00	279.91	2,691.91	683.58	2,424.70	2,174.91	3.17	-0.53	0.137
65.00	-21.13	-4.10	0.00	-259.0	0.00	259.04	2,630.31	660.31	2,262.45	2,052.24	3.76	-0.58	0.134
70.00	-20.29	-4.02	0.00	-238.6	0.00	238.55	2,566.60	637.04	2,105.82	1,931.38	4.4	-0.63	0.131
75.00	-19.48	-3.95	0.00	-218.4	0.00	218.44	2,500.77	613.77	1,954.81	1,812.53	5.09	-0.69	0.128
80.00	-18.68	-3.87	0.00	-198.7	0.00	198.70	2,432.83	590.50	1,809.42	1,695.84	5.84	-0.74	0.125
85.00	-17.91	-3.80	0.00	-179.3	0.00	179.33	2,362.77	567.23	1,669.64	1,581.51	6.65	-0.8	0.121
90.00	-17.17	-3.74	0.00	-160.3	0.00	160.33	2,290.59	543.96	1,535.49	1,469.71	7.51	-0.85	0.117
93.79	-16.62	-3.70	0.00	-146.2	0.00	146.15	2,228.05	526.31	1,437.45	1,382.72	8.21	-0.9	0.113
94.75	-16.42	-3.69	0.00	-142.6	0.00	142.62	2,209.20	521.86	1,413.24	1,359.31	8.39	-0.91	0.112
95.00	-16.36	-3.67	0.00	-141.7	0.00	141.69	2,204.27	520.69	1,406.95	1,353.22	8.43	-0.91	0.084
98.21	-15.61	-3.62	0.00	-129.9	0.00	129.93	1,110.63	308.68	823.97	676.41	9.06	-0.94	0.134
100.00	-15.38	-3.58	0.00	-123.4	0.00	123.45	1,100.89	303.68	797.50	659.55	9.41	-0.95	0.130
105.00	-14.73	-3.51	0.00	-105.6	0.00	105.56	1,072.24	289.72	725.86	612.66	10.44	-1.01	0.118
109.75	-14.13	-3.47	0.00	-88.9	0.00	88.89	1,043.07	276.45	660.93	568.53	11.47	-1.06	0.106
109.75	-14.13	-3.47	0.00	-88.9	0.00	88.89	1,043.07	276.45	660.93	568.53	11.47	-1.06	0.170
110.00	-14.10	-3.44	0.00	-88.0	0.00	88.03	1,041.48	275.75	657.60	566.22	11.53	-1.06	0.169
115.00	-13.63	-3.39	0.00	-70.8	0.00	70.81	1,008.60	261.79	592.70	520.38	12.69	-1.15	0.150
120.00	-13.17	-3.33	0.00	-53.9	0.00	53.87	973.60	247.83	531.17	475.34	13.93	-1.22	0.127
125.00	-8.85	-2.44	0.00	-37.1	0.00	37.07	936.49	233.87	473.02	431.26	15.25	-1.29	0.096
130.00	-8.48	-2.38	0.00	-24.9	0.00	24.89	897.25	219.91	418.23	388.32	16.62	-1.34	0.074
134.00	-4.65	-1.43	0.00	-15.1	0.00	15.13	864.34	208.74	376.83	354.91	17.76	-1.37	0.048
135.00	-4.59	-1.40	0.00	-13.7	0.00	13.70	855.90	205.95	366.82	346.70	18.05	-1.38	0.045
140.00	-4.33	-1.33	0.00	-6.7	0.00	6.72	812.44	191.98	318.78	306.57	19.51	-1.4	0.027
144.00	0.00	-1.22	0.00	-1.4	0.00	1.40	765.45	180.81	282.77	271.87	20.69	-1.41	0.005

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period ( $S_S$ ):	0.169
Spectral Response Acceleration at 1.0 Second Period ( $S_1$ ):	0.054
Long-Period Transition Period ( $T_L$ – Seconds):	6
Importance Factor ( $I_e$ ):	1.000
Site Coefficient $F_a$ :	1.600
Site Coefficient $F_v$ :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period ( $S_{ds}$ ):	0.180
Design Spectral Response Acceleration at 1.0 Second Period ( $S_{d1}$ ):	0.086
Seismic Response Coefficient ( $C_s$ ):	0.030
Upper Limit $C_s$ :	0.030
Lower Limit $C_s$ :	0.030
Period based on Rayleigh Method (sec):	2.680
Redundancy Factor ( $\rho$ ):	1.000
Seismic Force Distribution Exponent ( $k$ ):	2.000
Total Unfactored Dead Load:	34.830 k
Seismic Base Shear (E):	1.040 k

SEISMIC FORCES

Segment	Seismic	Height Above Base (ft)	Weight (lb)	$W_z$ (lb-ft)	$C_{vx}$	Horizontal Force (lb)	Vertical Force (lb)
36		142	198	4,001	0.012	13	245
35		137.5	260	4,919	0.015	16	322
34		134.5	54	971	0.003	3	66
33		132	284	4,955	0.015	16	352
32		127.5	368	5,977	0.018	19	454
31		122.5	440	6,601	0.020	21	544
30		117.5	453	6,260	0.019	20	560
29		112.5	467	5,910	0.018	19	577
28		109.875	24	286	0.001	1	29
27		107.375	602	6,944	0.021	22	744
26		102.5	647	6,799	0.021	22	800
25		99.105	235	2,308	0.007	7	290
24		96.605	745	6,954	0.022	22	921
23		94.875	59	528	0.002	2	73
22		94.2717	196	1,742	0.005	6	242
21		91.8967	550	4,646	0.014	15	680
20		87.5	745	5,704	0.018	18	921
19		82.5	768	5,224	0.016	17	949
18		77.5	790	4,746	0.015	15	977
17		72.5	813	4,272	0.013	14	1,005
16		67.5	835	3,806	0.012	12	1,032
15		62.5	858	3,351	0.010	11	1,060
14		57.5	880	2,911	0.009	9	1,088
13		53.5	539	1,543	0.005	5	666
12		51	641	1,667	0.005	5	792
11		48	1,304	3,004	0.009	10	1,611
10		45.5	185	383	0.001	1	228
9		42.5	938	1,693	0.005	5	1,159
8		37.5	960	1,350	0.004	4	1,187
7		32.5	983	1,038	0.003	3	1,215
6		27.5	1,005	760	0.002	2	1,242
5		22.5	1,028	520	0.002	2	1,270
4		17.5	1,050	322	0.001	1	1,298
3		12.5	1,073	168	0.000	1	1,326
2		7.5	1,095	62	0.000	0	1,354
1		2.5	1,118	7	0.000	0	1,382
VZW Unused Reserve (4347.44 sqin)		144	166	3,446	0.011	11	205
Kaelus KA-6030		144	70	1,460	0.004	5	87

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
Samsung B2/B66A RRH-BR049	144	253	5,250	0.016	17	313
Samsung B5/B13 RRH-BR04C	144	211	4,373	0.014	14	261
RFS DB-C1-12C-24AB-0Z	144	32	664	0.002	2	40
Samsung MT6407-77A	144	245	5,076	0.016	16	303
Quintel QS6656-5D	144	528	10,949	0.034	35	653
Antel LPA-70063-6CF-EDIN-X	144	162	3,359	0.010	11	200
Flat Platform with Round Handrails	144	2,500	51,840	0.160	167	3,090
Flat Platform with Round Handrails	134	2,500	44,890	0.139	145	3,090
Powerwave Allgon LGP13519	134	16	286	0.001	1	20
Powerwave Allgon LGP21401	134	85	1,519	0.005	5	105
Raycap DC6-48-60-18-8F(32.8 lbs)	134	66	1,178	0.004	4	81
Ericsson RRUS 4478 B14	134	180	3,227	0.010	10	222
Ericsson RRUS 4449 B5, B12	134	213	3,825	0.012	12	263
Powerwave Allgon 7770.00	134	105	1,885	0.006	6	130
CCI DMP65R-BU4D	134	68	1,219	0.004	4	84
CCI OPA65R-BU4DA-K	134	52	943	0.003	3	65
CCI DMP65R-BU6DA	134	159	2,851	0.009	9	196
CCI OPA65R-BU6D	134	126	2,270	0.007	7	156
Ericsson KRY 112 144/1	125	33	516	0.002	2	41
Ericsson KRY 112 71	125	40	619	0.002	2	49
Ericsson 4480 BAND 71	125	243	3,797	0.012	12	300
Generic Mount Reinforcement	125	600	9,375	0.029	30	742
RFS APX16DWV-16DWV-S-E-ACU	125	119	1,856	0.006	6	147
RFS APXVAALL24 43-U-NA20	125	368	5,756	0.018	19	455
Generic Round Platform with Handrails	125	2,500	39,062	0.121	126	3,090
<b>Totals:</b>		<b>34,829</b>	<b>323,821</b>	<b>1.000</b>	<b>1,045</b>	<b>43,051</b>

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
36	142	198	4,001	0.012	13	171
35	137.5	260	4,919	0.015	16	225
34	134.5	54	971	0.003	3	46
33	132	284	4,955	0.015	16	246
32	127.5	368	5,977	0.018	19	318
31	122.5	440	6,601	0.020	21	380
30	117.5	453	6,260	0.019	20	392
29	112.5	467	5,910	0.018	19	403
28	109.875	24	286	0.001	1	20
27	107.375	602	6,944	0.021	22	520
26	102.5	647	6,799	0.021	22	559
25	99.105	235	2,308	0.007	7	203
24	96.605	745	6,954	0.022	22	644
23	94.875	59	528	0.002	2	51
22	94.2717	196	1,742	0.005	6	169
21	91.8967	550	4,646	0.014	15	475
20	87.5	745	5,704	0.018	18	644
19	82.5	768	5,224	0.016	17	663
18	77.5	790	4,746	0.015	15	683
17	72.5	813	4,272	0.013	14	702
16	67.5	835	3,806	0.012	12	722
15	62.5	858	3,351	0.010	11	741
14	57.5	880	2,911	0.009	9	761
13	53.5	539	1,543	0.005	5	466
12	51	641	1,667	0.005	5	554
11	48	1,304	3,004	0.009	10	1,126
10	45.5	185	383	0.001	1	160
9	42.5	938	1,693	0.005	5	810
8	37.5	960	1,350	0.004	4	829
7	32.5	983	1,038	0.003	3	849

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W <sub>z</sub> (lb-ft)	C <sub>vx</sub>	Horizontal Force (lb)	Vertical Force (lb)
6	27.5	1,005	760	0.002	2	868
5	22.5	1,028	520	0.002	2	888
4	17.5	1,050	322	0.001	1	907
3	12.5	1,073	168	0.000	1	927
2	7.5	1,095	62	0.000	0	946
1	2.5	1,118	7	0.000	0	966
VZW Unused Reserve (4347.44 sqin)	144	166	3,446	0.011	11	144
Kaelus KA-6030	144	70	1,460	0.004	5	61
Samsung B2/B66A RRH-BR049	144	253	5,250	0.016	17	219
Samsung B5/B13 RRH-BR04C	144	211	4,373	0.014	14	182
RFS DB-C1-12C-24AB-0Z	144	32	664	0.002	2	28
Samsung MT6407-77A	144	245	5,076	0.016	16	211
Quintel QS6656-5D	144	528	10,949	0.034	35	456
Antel LPA-70063-6CF-EDIN-X	144	162	3,359	0.010	11	140
Flat Platform with Round Handrails	144	2,500	51,840	0.160	167	2,160
Flat Platform with Round Handrails	134	2,500	44,890	0.139	145	2,160
Powerwave Allgon LGP13519	134	16	286	0.001	1	14
Powerwave Allgon LGP21401	134	85	1,519	0.005	5	73
Raycap DC6-48-60-18-8F(32.8 lbs)	134	66	1,178	0.004	4	57
Ericsson RRUS 4478 B14	134	180	3,227	0.010	10	155
Ericsson RRUS 4449 B5, B12	134	213	3,825	0.012	12	184
Powerwave Allgon 7770.00	134	105	1,885	0.006	6	91
CCI DMP65R-BU4D	134	68	1,219	0.004	4	59
CCI OPA65R-BU4DA-K	134	52	943	0.003	3	45
CCI DMP65R-BU6DA	134	159	2,851	0.009	9	137
CCI OPA65R-BU6D	134	126	2,270	0.007	7	109
Ericsson KRY 112 144/1	125	33	516	0.002	2	29
Ericsson KRY 112 71	125	40	619	0.002	2	34
Ericsson 4480 BAND 71	125	243	3,797	0.012	12	210
Generic Mount Reinforcement	125	600	9,375	0.029	30	518
RFS APX16DWV-16DWV-S-E-ACU	125	119	1,856	0.006	6	103
RFS APXVAALL24 43-U-NA20	125	368	5,756	0.018	19	318
Generic Round Platform with Handrails	125	2,500	39,062	0.121	126	2,160
<b>Totals:</b>		<b>34,829</b>	<b>323,821</b>	<b>1.000</b>	<b>1,045</b>	<b>30,091</b>

1.2D + 1.0Ev + 1.0Eh

Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-41.67	-1.05	0.00	-134.15	0.00	134.15	3,249.22	951.93	4,702	3,663.92	0.00	0.00	0.05
5.00	-40.31	-1.05	0.00	-128.92	0.00	128.92	3,212.04	928.66	4,475	3,532.96	0.00	-0.01	0.05
10.00	-38.99	-1.06	0.00	-123.65	0.00	123.65	3,172.75	905.39	4,253	3,401.79	0.02	-0.02	0.05
15.00	-37.69	-1.06	0.00	-118.36	0.00	118.36	3,131.34	882.13	4,038	3,270.59	0.04	-0.03	0.05
20.00	-36.42	-1.07	0.00	-113.04	0.00	113.04	3,087.81	858.86	3,827	3,139.53	0.08	-0.04	0.05
25.00	-35.18	-1.07	0.00	-107.70	0.00	107.70	3,042.17	835.59	3,623	3,008.79	0.13	-0.05	0.05
30.00	-33.96	-1.07	0.00	-102.34	0.00	102.34	2,994.41	812.32	3,424	2,878.54	0.18	-0.06	0.05
35.00	-32.78	-1.07	0.00	-96.98	0.00	96.98	2,944.53	789.05	3,231	2,748.97	0.25	-0.07	0.05
40.00	-31.62	-1.07	0.00	-91.61	0.00	91.61	2,892.53	765.78	3,043	2,620.24	0.33	-0.08	0.05
45.00	-31.39	-1.08	0.00	-86.24	0.00	86.24	2,838.42	742.51	2,861	2,492.54	0.42	-0.09	0.05
46.00	-29.78	-1.07	0.00	-85.17	0.00	85.17	2,827.34	737.85	2,825	2,467.14	0.44	-0.10	0.05
50.00	-28.98	-1.06	0.00	-80.90	0.00	80.90	2,782.19	719.24	2,684	2,366.04	0.53	-0.11	0.05
52.00	-28.32	-1.06	0.00	-78.77	0.00	78.77	2,786.05	720.81	2,696	2,374.54	0.57	-0.11	0.04
55.00	-27.23	-1.05	0.00	-75.59	0.00	75.59	2,751.38	706.85	2,593	2,299.23	0.65	-0.12	0.04
60.00	-26.17	-1.05	0.00	-70.32	0.00	70.32	2,691.91	683.58	2,425	2,174.91	0.78	-0.13	0.04
65.00	-25.14	-1.04	0.00	-65.09	0.00	65.09	2,630.31	660.31	2,262	2,052.24	0.92	-0.14	0.04
70.00	-24.13	-1.03	0.00	-59.90	0.00	59.90	2,566.60	637.04	2,106	1,931.38	1.08	-0.16	0.04
75.00	-23.15	-1.01	0.00	-54.77	0.00	54.77	2,500.77	613.77	1,955	1,812.53	1.25	-0.17	0.04
80.00	-22.21	-1.00	0.00	-49.70	0.00	49.70	2,432.83	590.50	1,809	1,695.84	1.44	-0.18	0.04
85.00	-21.28	-0.98	0.00	-44.71	0.00	44.71	2,362.77	567.23	1,670	1,581.51	1.64	-0.20	0.04

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
90.00	-20.60	-0.97	0.00	-39.79	0.00	39.79	2,290.59	543.96	1,535	1,469.71	1.86	-0.21	0.04
93.79	-20.36	-0.97	0.00	-36.12	0.00	36.12	2,228.05	526.31	1,437	1,382.72	2.03	-0.22	0.04
94.75	-20.29	-0.96	0.00	-35.19	0.00	35.19	2,209.20	521.86	1,413	1,359.31	2.07	-0.23	0.04
95.00	-19.37	-0.94	0.00	-34.95	0.00	34.95	2,204.27	520.69	1,407	1,353.22	2.08	-0.23	0.03
98.21	-19.08	-0.93	0.00	-31.93	0.00	31.93	1,110.63	308.68	824	676.41	2.24	-0.23	0.04
100.00	-18.28	-0.91	0.00	-30.26	0.00	30.26	1,100.89	303.68	798	659.55	2.33	-0.24	0.04
105.00	-17.53	-0.89	0.00	-25.71	0.00	25.71	1,072.24	289.72	726	612.66	2.58	-0.25	0.04
109.75	-17.50	-0.89	0.00	-21.49	0.00	21.49	1,043.07	276.45	661	568.53	2.84	-0.26	0.03
109.75	-17.50	-0.89	0.00	-21.49	0.00	21.49	1,043.07	276.45	661	568.53	2.84	-0.26	0.06
110.00	-16.93	-0.87	0.00	-21.27	0.00	21.27	1,041.48	275.75	658	566.22	2.85	-0.26	0.05
115.00	-16.37	-0.85	0.00	-16.91	0.00	16.91	1,008.60	261.79	593	520.38	3.14	-0.28	0.05
120.00	-15.82	-0.83	0.00	-12.64	0.00	12.64	973.60	247.83	531	475.34	3.45	-0.30	0.04
125.00	-10.54	-0.59	0.00	-8.46	0.00	8.46	936.49	233.87	473	431.26	3.77	-0.32	0.03
130.00	-10.19	-0.58	0.00	-5.50	0.00	5.50	897.25	219.91	418	388.32	4.11	-0.33	0.03
134.00	-5.72	-0.34	0.00	-3.20	0.00	3.20	864.34	208.74	377	354.91	4.39	-0.34	0.02
135.00	-5.39	-0.32	0.00	-2.86	0.00	2.86	855.90	205.95	367	346.70	4.46	-0.34	0.02
140.00	-5.15	-0.31	0.00	-1.24	0.00	1.24	812.44	191.98	319	306.57	4.81	-0.34	0.01
144.00	0.00	-0.28	0.00	0.00	0.00	0.00	765.45	180.81	283	271.87	5.10	-0.34	0.00

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-29.12	-1.05	0.00	-131.68	0.00	131.68	3,249.22	951.93	4,702	3,663.92	0.00	0.00	0.05
5.00	-28.18	-1.05	0.00	-126.45	0.00	126.45	3,212.04	928.66	4,475	3,532.96	0.00	-0.01	0.05
10.00	-27.25	-1.05	0.00	-121.20	0.00	121.20	3,172.75	905.39	4,253	3,401.79	0.02	-0.02	0.04
15.00	-26.34	-1.06	0.00	-115.93	0.00	115.93	3,131.34	882.13	4,038	3,270.59	0.04	-0.03	0.04
20.00	-25.46	-1.06	0.00	-110.64	0.00	110.64	3,087.81	858.86	3,827	3,139.53	0.08	-0.04	0.04
25.00	-24.59	-1.06	0.00	-105.34	0.00	105.34	3,042.17	835.59	3,623	3,008.79	0.12	-0.05	0.04
30.00	-23.74	-1.06	0.00	-100.04	0.00	100.04	2,994.41	812.32	3,424	2,878.54	0.18	-0.06	0.04
35.00	-22.91	-1.06	0.00	-94.74	0.00	94.74	2,944.53	789.05	3,231	2,748.97	0.25	-0.07	0.04
40.00	-22.10	-1.06	0.00	-89.43	0.00	89.43	2,892.53	765.78	3,043	2,620.24	0.32	-0.08	0.04
45.00	-21.94	-1.06	0.00	-84.14	0.00	84.14	2,838.42	742.51	2,861	2,492.54	0.41	-0.09	0.04
46.00	-20.81	-1.05	0.00	-83.09	0.00	83.09	2,827.34	737.85	2,825	2,467.14	0.43	-0.09	0.04
50.00	-20.26	-1.05	0.00	-78.89	0.00	78.89	2,782.19	719.24	2,684	2,366.04	0.52	-0.10	0.04
52.00	-19.79	-1.04	0.00	-76.79	0.00	76.79	2,786.05	720.81	2,696	2,374.54	0.56	-0.11	0.04
55.00	-19.03	-1.03	0.00	-73.67	0.00	73.67	2,751.38	706.85	2,593	2,299.23	0.63	-0.12	0.04
60.00	-18.29	-1.03	0.00	-68.49	0.00	68.49	2,691.91	683.58	2,425	2,174.91	0.76	-0.13	0.04
65.00	-17.57	-1.02	0.00	-63.36	0.00	63.36	2,630.31	660.31	2,262	2,052.24	0.90	-0.14	0.04
70.00	-16.87	-1.00	0.00	-58.28	0.00	58.28	2,566.60	637.04	2,106	1,931.38	1.06	-0.15	0.04
75.00	-16.18	-0.99	0.00	-53.25	0.00	53.25	2,500.77	613.77	1,955	1,812.53	1.23	-0.17	0.04
80.00	-15.52	-0.98	0.00	-48.30	0.00	48.30	2,432.83	590.50	1,809	1,695.84	1.41	-0.18	0.04
85.00	-14.88	-0.96	0.00	-43.42	0.00	43.42	2,362.77	567.23	1,670	1,581.51	1.60	-0.19	0.03
90.00	-14.40	-0.95	0.00	-38.63	0.00	38.63	2,290.59	543.96	1,535	1,469.71	1.81	-0.21	0.03
93.79	-14.23	-0.94	0.00	-35.04	0.00	35.04	2,228.05	526.31	1,437	1,382.72	1.98	-0.22	0.03
94.75	-14.18	-0.94	0.00	-34.14	0.00	34.14	2,209.20	521.86	1,413	1,359.31	2.03	-0.22	0.03
95.00	-13.54	-0.92	0.00	-33.91	0.00	33.91	2,204.27	520.69	1,407	1,353.22	2.04	-0.22	0.02
98.21	-13.33	-0.91	0.00	-30.97	0.00	30.97	1,110.63	308.68	824	676.41	2.19	-0.23	0.04
100.00	-12.77	-0.89	0.00	-29.35	0.00	29.35	1,100.89	303.68	798	659.55	2.27	-0.23	0.04
105.00	-12.25	-0.86	0.00	-24.92	0.00	24.92	1,072.24	289.72	726	612.66	2.52	-0.24	0.03
109.75	-12.23	-0.86	0.00	-20.81	0.00	20.81	1,043.07	276.45	661	568.53	2.77	-0.26	0.03
109.75	-12.23	-0.86	0.00	-20.81	0.00	20.81	1,043.07	276.45	661	568.53	2.77	-0.26	0.05
110.00	-11.83	-0.85	0.00	-20.60	0.00	20.60	1,041.48	275.75	658	566.22	2.79	-0.26	0.05
115.00	-11.44	-0.83	0.00	-16.37	0.00	16.37	1,008.60	261.79	593	520.38	3.07	-0.28	0.04
120.00	-11.06	-0.81	0.00	-12.23	0.00	12.23	973.60	247.83	531	475.34	3.36	-0.29	0.04
125.00	-7.37	-0.57	0.00	-8.19	0.00	8.19	936.49	233.87	473	431.26	3.68	-0.31	0.03
130.00	-7.12	-0.56	0.00	-5.33	0.00	5.33	897.25	219.91	418	388.32	4.01	-0.32	0.02
134.00	-3.99	-0.33	0.00	-3.10	0.00	3.10	864.34	208.74	377	354.91	4.28	-0.33	0.01
135.00	-3.77	-0.31	0.00	-2.77	0.00	2.77	855.90	205.95	367	346.70	4.35	-0.33	0.01

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
140.00	-3.60	-0.30	0.00	-1.20	0.00	1.20	812.44	191.98	319	306.57	4.69	-0.33	0.01
144.00	0.00	-0.28	0.00	0.00	0.00	0.00	765.45	180.81	283	271.87	4.97	-0.33	0.00

ANALYSIS SUMMARY

Load Case	Base Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	20.72	0.00	41.77	0.00	0.00	2315.34	109.75	0.67
0.9D + 1.0W	20.70	0.00	31.32	0.00	0.00	2280.26	109.75	0.65
1.2D + 1.0Di + 1.0Wi	6.01	0.00	57.87	0.00	0.00	666.27	109.75	0.21
1.2D + 1.0Ev + 1.0Eh	1.08	0.00	41.67	0.00	0.00	134.15	109.75	0.05
0.9D - 1.0Ev + 1.0Eh	1.06	0.00	29.12	0.00	0.00	131.68	109.75	0.05
1.0D + 1.0W	5.04	0.00	34.83	0.00	0.00	558.85	109.75	0.17

ADDITIONAL STEEL SUMMARY

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors				Max Member			
			VQ/I (k/in)	Shear Applied (kips)	phiVn (kips)	Ratio	Pu (kip)	phiPn (kip)	Ratio	
94.75	109.75	PL PL 4 x 0.75"	264.4	3.2	38.3	0.0829	98.8	127.6		

Elev From (ft)	Elev To (ft)	Member	Upper Termination Connectors				Lower Termination Connectors					
			MQ/I (kips)	phiVn (kips)	Number Required	Number Actual	Ratio	MQ/I (kips)	phiVn (kip)	Number Required	Number Actual	Ratio
94.75	109.75	PL PL 4 x 0.75"	81.2919	38.27	3	9	0.2360	74.7132	38.27	2	9	0.2169

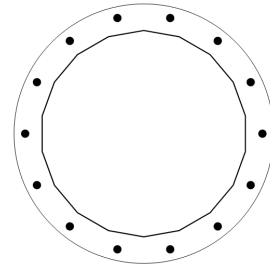
**BASE PLATE ANALYSIS @ 0 FT**

**APPLIED REACTIONS**

Moment (k-ft)	Axial (k)	Shear (k)
2315.34	41.77	20.72

**PLATE PARAMETERS (ID# 26562)**

Width:	70	in
Shape:	Round	
Thickness:	1.75	in
Grade:	A572-60	
Yield Strength:	60	ksi
Tensile Strength:	75	ksi
Rod Detail Type:	d	
Clear Distance	3.5	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	90	°



**ANCHOR ROD PARAMETERS**

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F <sub>y</sub> (ksi)	F <sub>u</sub> (ksi)	Spacing (in)	Offset (°)
Original [ID#27259]	Radial	14	2.25	64	A615-75	75	100	-	-

**COMPONENT PROPERTIES**

Component	ID	Gross Area (in <sup>2</sup> )	Net Area (in <sup>2</sup> )	Individual Inertia (in <sup>4</sup> )	Moment of Inertia (in <sup>4</sup> )	Threads/in
Pole	55"Ø x 0.3125" (18 Sides)	53.4172	-	-	19971.23	-
Bolt Group	Original (14) 2.25"Ø	3.9761	3.2477	0.8393	21420.71	4.5

**REACTION DISTRIBUTION**

Component	ID	Moment M <sub>u</sub> (k-ft)	Axial Load P <sub>u</sub> (k)	Shear V <sub>u</sub> (k)	Moment Factor
Pole	55"Ø x 0.3125" (18 Sides)	2315.3	41.77	20.72	1.000
Bolt Group	Original (14) 2.25"Ø	2315.3	-	20.72	1.000

**BASE PLATE BEND LINE ANALYSIS @ 0 FT**

**POLE PROPERTIES**

Flat-to-Flat Diameter:	55.12	in
Point-to-Point Diameter:	55.98	in
Orientation Offset:	10	°

Flat Width:	9.720	in
Flat Radians:	0.349	rad

**PLATE PROPERTIES**

Neutral Axis:	90	°
Bend Line Limits:	2.409 to 3.874	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in <sup>3</sup> )	Applied Moment M <sub>u</sub> (k-in)	Moment Capacity ΦM <sub>n</sub> (k-in)	Flexure Result M <sub>u</sub> /ΦM <sub>n</sub>
Flats	38.764	0.00	29.679	433.8	1602.6	27.1%
Corners	37.526	0.00	28.731	357.1	1551.4	23.0%
Circumferential	58.316	0.00	44.648	1002.1	2411.0	41.6%

**PLASTIC ANCHOR ROD ANALYSIS**

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P <sub>u</sub> (k)	Applied Shear Load V <sub>u</sub> (k)	Compressive Capacity ΦP <sub>n</sub> (k)	Interaction Result
Original	14	2.25	106.7	2.2	243.6	45.7%

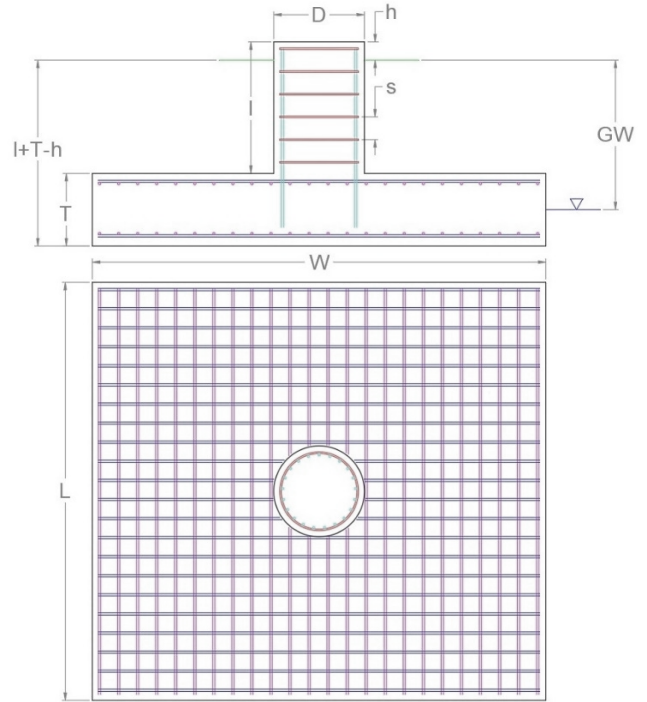


**APPLIED GLOBAL REACTIONS**

Moment (k-ft)	Axial (k)	Shear (k)
2,315.34	41.77	20.72

**FOUNDATION PARAMETERS**

Mat Length:	L	21.5	ft
Mat Width:	W	21.5	ft
Mat Thickness:	T	3.5	ft
Base Depth:	L+T-h	8	ft
Pier Shape:		Square	
Pier Width:	D	7	ft
Pier Height above Grade:	h	1	ft
Concrete Compressive Strength:		4,000	psi
Mat Top Rebar:		(22) #8 bars [60 ksi]	
Mat Bottom Rebar:		(22) #8 bars [60 ksi]	
Pier Vertical Rebar:		(46) #8 bars [60 ksi]	
Pier Rebar Ties:	s	#4 bars @ 12.0" c/c [60 ksi]	
Rebar Clear Cover:		3.0	in
Tower Eccentricity:	ecc	0	ft
Tower Leg Count		1	



**SOIL PARAMETERS**

Water Table Depth [BGL]:	GW		ft
Soil Unit Weight:		120	pcf
Ultimate Skin Friction:		0	psf
Ultimate Bearing Pressure:		16,000	psf
Bearing Pressure Type:		Net	
Coefficient of Shear Friction:		0.3	

**SOIL STRENGTH ANALYSIS**

Soil Strength Reduction Factor, $\Phi_s$	Uplift Strength Reduction Factor, $\Phi_s$	Asset Dead Load Factor	Dead Load Factor
0.75	0.75	0.9	1.2

**SOIL OVERTURNING ANALYSIS**

Design Moment, $M_{u,Design}$ (k-ft)	Nominal Overturning Capacity, $\Phi_m M_n$ (k-ft)	Soil Overturning Usage, $M_{u,Design} / \Phi_m M_n$
2,501.82	5,677.49	44.1% <span style="float: right;">✔</span>

**SOIL BEARING ANALYSIS**

Net Bearing Pressure, $P_{u,Net}$ (psf)	Nominal Bearing Capacity, $\Phi_b P_n$ (k-ft)	Bearing Pressure Controlling Load Direction	Soil Bearing Usage, $P_{u,net} / \Phi_b P_n$
1,986.00	12,720.00	Diagonal to Pad Edge	15.6% <span style="float: right;">✔</span>

**SOIL SLIDING SHEAR ANALYSIS**

Applied Shear Force, $V_u$ (k)	Friction Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Nominal Shear Capacity, $\Phi_s V_n$ (k)	Soil Sliding Shear Usage, $V_u / \Phi_s V_n$
20.72	0.00	750.0	56.44	164.07	13.0% <span style="float: right;">✔</span>

**MAT REINFORCING STEEL STRENGTH ANALYSIS**

Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, $\Phi_b$	Strength Shear Reduction Factor, $\Phi_v$	Strength Compression Reduction Factor, $\Phi_c$
29,000	0.9	0.75	0.65

**MAT REINFORCING ONE WAY SHEAR ANALYSIS**

One Way Design Shear, $V_u$ (k)	Nominal One Way Shear Capacity, $\Phi_c V_n$ (k)	One Way Shear Controlling Load Direction	Mat One Way Shear Usage, $V_u / \Phi_c V_n$
74.75	738.55	Diagonal to Pad Edge	10.1%

**MAT REINFORCING PUNCHING SHEAR ANALYSIS**

Punching Shear Design Stress, $v_u$ (psi)	Nominal Punching Shear Capacity, $\Phi_c v_n$ (psi)	Mat Punching Shear Usage, $v_u / \Phi_c v_n$
19.7	189.7	10.4%

**MAT REINFORCING MOMENT TRANSFER ANALYSIS**

Moment Transfer Effective Flexural Width, $w_f$ (in)	Neutral Axis Depth (in)	Pier Moment at Joint, $M_{ut}$ (k-in)	Nominal Moment Transfer Capacity, $\Phi M_{sc,f}$ (k-in)	Mat Moment Transfer Usage, $0.6 M_{ut} / \Phi M_{sc,f}$
17.50	1.23	0.00	29,632.9	0.0%

**MAT REINFORCING FLEXURE ANALYSIS – UPPER STEEL**

Factored Moment, $M_u$ (k-ft)	Nominal Flexural Capacity, $\Phi M_n$ (k-ft)	Flexural Steel Controlling Load Direction	Mat Upper Rebar Flexure Usage, $M_u / \Phi M_n$
601.77	2,932.47	Parallel to Pad Edge	20.5%

**MAT REINFORCING FLEXURE ANALYSIS – LOWER STEEL**

Factored Moment, $M_u$ (k-ft)	Nominal Flexural Capacity, $\Phi M_n$ (k-ft)	Flexural Steel Controlling Load Direction	Mat Lower Rebar Flexure Usage, $M_u / \Phi M_n$
785.40	2,932.47	Parallel to Pad Edge	26.8%

**PIER REINFORCING STEEL STRENGTH ANALYSIS**

Rebar Cage Diameter (in)	Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, $\Phi_b$	Strength Shear Reduction Factor, $\Phi_v$	Strength Compression Reduction Factor, $\Phi_c$
76.00	29,000	0.9	0.75	0.65

**PIER REINFORCING MOMENT ANALYSIS**

Design Moment, $M_u$ (k-ft)	Nominal Moment Capacity, $\Phi_u M_n$ (k-ft)	Bending Reinforcement Ratio	Pier Rebar Flexure Usage, $M_u / \Phi_u M_n$
2,429.30	6,078.96	0.005	40.0%

**PIER REINFORCING COMPRESSION ANALYSIS**

Design Compression, $P_u$ (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$
41.77	12,435.41	0.3%

**PIER REINFORCING SHEAR ANALYSIS**

Design Shear, $V_u$ (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$
20.72	772.17	2.7%

# EXHIBIT 4



Colliers Engineering & Design CT, P.C.  
1055 Washington Boulevard  
Stamford, CT 06901  
203.324.0800

peter.albano@collierseng.com

## Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10208046  
Colliers Engineering & Design CT, P.C. #: 23777201

August 2, 2023

### Site Information

Site ID: 5000243734-VZW / BARKHAMSTED W CT  
Site Name: BARKHAMSTED W CT  
Carrier Name: Verizon Wireless  
Address: 5 Old Farm Road  
Barkhamsted, Connecticut 06057  
Litchfield County  
Latitude: 41.914525°  
Longitude: -73.022331°

### Structure Information

Tower Type: 147-Ft Monopole  
Mount Type: 14.17-Ft Platform

FUZE ID # 17123904

### Analysis Results

Platform: 57.5% **Pass w/ Hardware Upgrades\***

**\* Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

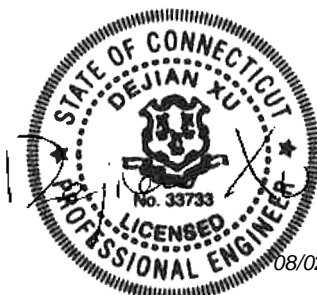
### \*\*\*Contractor PMI Requirements:

**Included at the end of this MA report**

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

**For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)**

Report Prepared By: Ismaias Recinos



08/02/2023

**Executive Summary:**

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

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

**Sources of Information:**

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 323420, dated November 16, 2020 Filter Add Scope Provided by Verizon Wireless
Mount Mapping Report	Roaming Networks Inc., Site #: 468464, dated March 30, 2021
Previous Mount Analysis	Maser Consulting Project #: 21777223A, dated July 2, 2021
Post Modification Inspection	Colliers Engineering & Design Project #: 21777223, dated December 14, 2022

**Analysis Criteria:**

Codes and Standards: ANSI/TIA-222-H  
 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022

Wind Parameters: Basic Wind Speed (Ultimate 3-sec. Gust),  $V_{ULT}$ : 115 mph  
 Ice Wind Speed (3-sec. Gust): 50 mph  
 Design Ice Thickness: 1.00 in  
 Risk Category: II  
 Exposure Category: B  
 Topographic Category: 1  
 Topographic Feature Considered: N/A  
 Topographic Method: N/A  
 Ground Elevation Factor,  $K_e$ : 0.971

Seismic Parameters:  $S_s$ : 0.169 g  
 $S_1$ : 0.054 g

Maintenance Parameters: Wind Speed (3-sec. Gust): 30 mph  
 Maintenance Live Load,  $L_v$ : 250 lbs.  
 Maintenance Live Load,  $L_m$ : 500 lbs.

Analysis Software: RISA-3D (V17)

**Final Loading Configuration:**

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
142.8	145.0	6	Quintel	QS6656-5D	Retained
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48	
		6	Antel	LPA-80063/4CF	
		4	KAelus	KA-6030	Added

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

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

**Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design 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 Colliers Engineering & Design to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design 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 Colliers Engineering & Design.**

**Analysis Results:**

Component	Utilization %	Pass/Fail
Standoff Horizontal	34.0 %	Pass
Face Horizontal	19.9 %	Pass
Mount Pipe	37.3 %	Pass
Dual Mount Pipe	25.7 %	Pass
Kicker	1.0 %	Pass
Support Rail	12.0 %	Pass
Support Rail Corner	19.9 %	Pass
Connection	57.5 %	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>57.5 %</b>
---	---------------

\* Results valid after hardware upgrades noted in the PMI Requirements are installed.

**Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:**

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	27.4	27.4	46.5	46.5
0.5	35.1	35.1	61.8	61.8
1	42.2	42.2	76.6	76.6

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

## **Requirements:**

The existing mount will be **SUFFICIENT** for the final loading configuration shown in attachment 2 **upon the completion of the requirements listed below.**

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

Existing kicker kit and OVP pipe threaded rods at platform elevation shall be trimmed to extend no more than 1" beyond the lock nut. Treat all cut ends with (2) coats of cold galvanization (Zinga or Zinc Kote)

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. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations



# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

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](mailto:pmisupport@colliersengineering.com)

---

PSLC #: 5000243734

SMART Project #: 10208046

Fuze Project ID: 17123904

**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. 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.

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

**Issue:**

Contractor shall install the proposed filter units on new Site Pro 1 Dual Swivel Mount Kit (Part #: RRUDSM or EOR approved equivalent) in the location shown in the placement diagrams.

Existing kicker kit and OVP pipe threaded rods at platform elevation shall be trimmed to extend no more than 1” beyond the lock nut. Treat all cut ends with (2) coats of cold galvanization (Zinga or Zinc Kote)

**Response:**

**Special Instruction Confirmation:**

- The contractor has read and acknowledges the above special instructions.
- All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

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

**Comments:**

--

**Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:**

Yes       No

**Contractor certifies no new damage created during the current installation:**

Yes       No

**Contractor to certify the condition of the safety climb and verify no damage when leaving the site:**

Safety Climb in Good Condition       Safety Climb Damaged

**Certifying Individual:**

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

Se tor: A  
 Str t re Type: Mo opole  
 Mo t Elev: 142.80

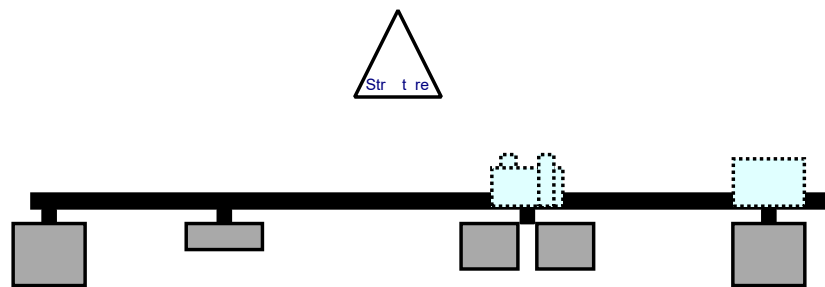
10208046

8/2/2023

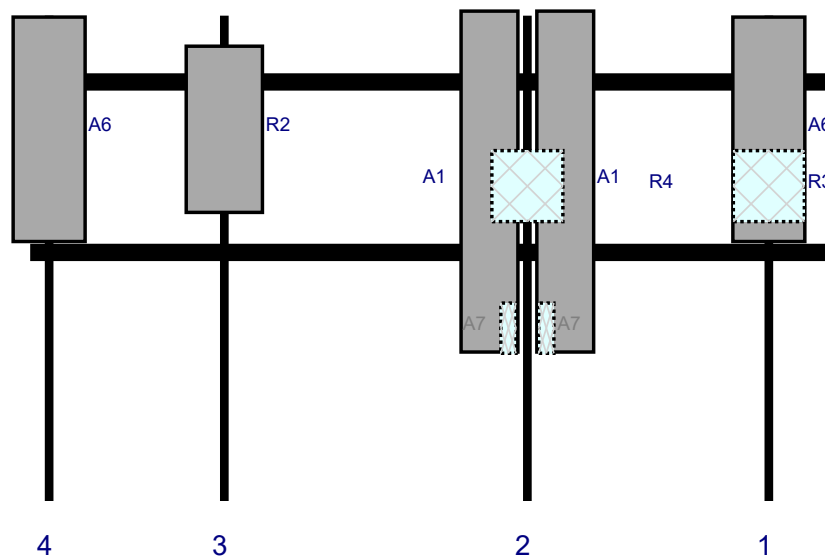


Page: 1

Plan View

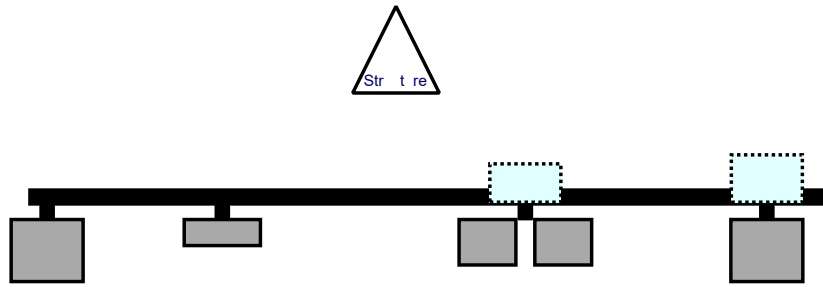


Front View - Looking at Structure

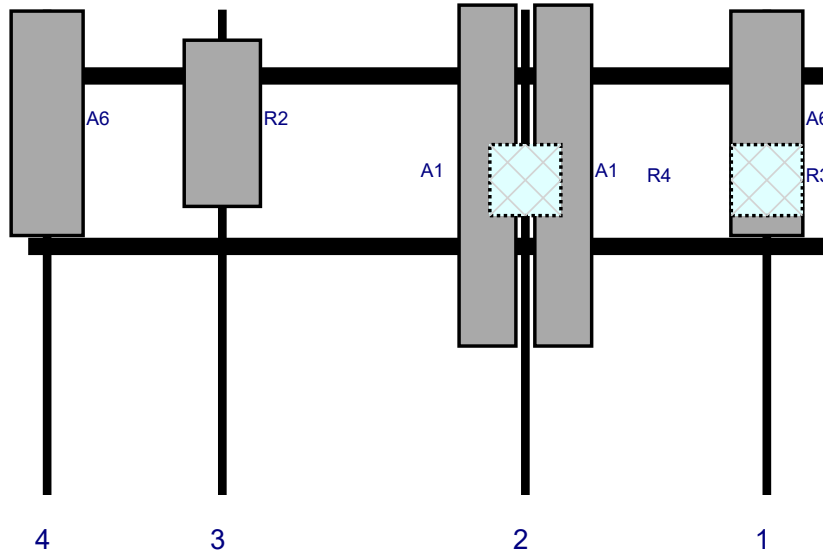


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A6	LPA-80063/4CF	47.4	15.2	156	1		Fro t	24	0	Ret i ed	07/01/2022
R3	B2/B66A RRR-BR049 (RFV01U-D1A)	15	15	156	1		Behi d	36	0	Ret i ed	07/01/2022
A1	QS6656-5D	72	12	105	2		Fro t	35.04	8	Ret i ed	07/01/2022
A1	QS6656-5D	72	12	105	2		Fro t	35.04	-8	Ret i ed	07/01/2022
R4	B5/B13 RRR-BR04C (RFV01U-D2A)	15	15	105	2		Behi d	36	0	Ret i ed	07/01/2022
A7	KA-6030	10.6	3.2	105	2		Behi d	66	4	Added	
A7	KA-6030	10.6	3.2	105	2		Behi d	66	-4	Added	
R2	MT6407-77A	35.1	16.1	41	3		Fro t	24	0	Ret i ed	07/01/2022
A6	LPA-80063/4CF	47.4	15.2	4	4		Fro t	24	0	Ret i ed	07/01/2022
OVP	RVZDC-6627-PF-48	28.9	15.7			Me er				Ret i ed	07/01/2022

Plan View



Front View - Looking at Structure



Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A6	LPA-80063/4CF	47.4	15.2	156	1		Fro t	24	0	Ret i ed	07/01/2022
R3	B2/B66A RRR-BR049 (RFV01U-D1A)	15	15	156	1		Behi d	36	0	Ret i ed	07/01/2022
A1	QS6656-5D	72	12	105	2		Fro t	35.04	8	Ret i ed	07/01/2022
A1	QS6656-5D	72	12	105	2		Fro t	35.04	-8	Ret i ed	07/01/2022
R4	B5/B13 RRR-BR04C (RFV01U-D2A)	15	15	105	2		Behi d	36	0	Ret i ed	07/01/2022
R2	MT6407-77A	35.1	16.1	41	3		Fro t	24	0	Ret i ed	07/01/2022
A6	LPA-80063/4CF	47.4	15.2	4	4		Fro t	24	0	Ret i ed	07/01/2022

Se tor: C  
 Str t re Type: Mo opole  
 Mo t Elev: 142.80

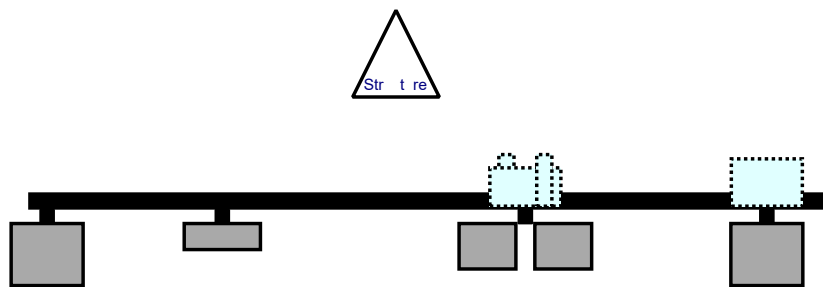
10208046

8/2/2023

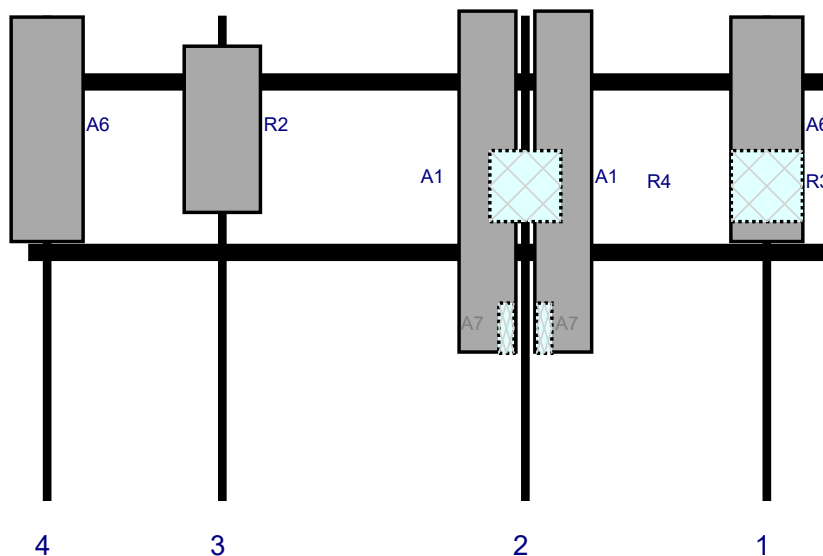


P ge: 3

Plan View




Front View - Looking at Structure

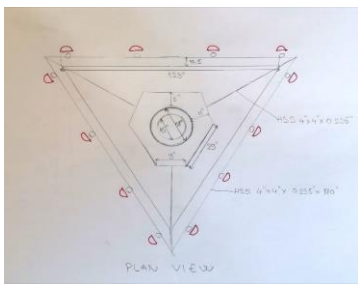


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A6	LPA-80063/4CF	47.4	15.2	156	1		Fro t	24	0	Ret i ed	07/01/2022
R3	B2/B66A RRRH-BR049 (RFV01U-D1A)	15	15	156	1		Behi d	36	0	Ret i ed	07/01/2022
A1	QS6656-5D	72	12	105	2		Fro t	35.04	8	Ret i ed	07/01/2022
A1	QS6656-5D	72	12	105	2		Fro t	35.04	-8	Ret i ed	07/01/2022
R4	B5/B13 RRRH-BR04C (RFV01U-D2A)	15	15	105	2		Behi d	36	0	Ret i ed	07/01/2022
A7	KA-6030	10.6	3.2	105	2		Behi d	66	4	Added	
A7	KA-6030	10.6	3.2	105	2		Behi d	66	-4	Added	
R2	MT6407-77A	35.1	16.1	41	3		Fro t	24	0	Ret i ed	07/01/2022
A6	LPA-80063/4CF	47.4	15.2	4	4		Fro t	24	0	Ret i ed	07/01/2022



	<b>Antenna Mount Mapping Form (PATENT PENDING)</b>			FCC # 411177
	Tower Owner:	OTHER	Mapping Date:	03.30.2021.
Site Name:	BARKHAMSTED W CT	Tower Type:	Monopole	
Site Number or ID:	468464	Tower Height (Ft.):	147	
Mapping Contractor:	Roaming Networks inc.	Mount Elevation (Ft.):	144	

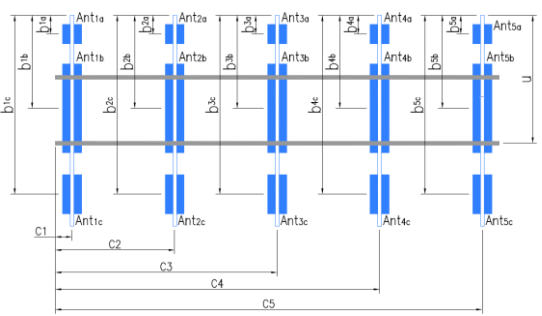
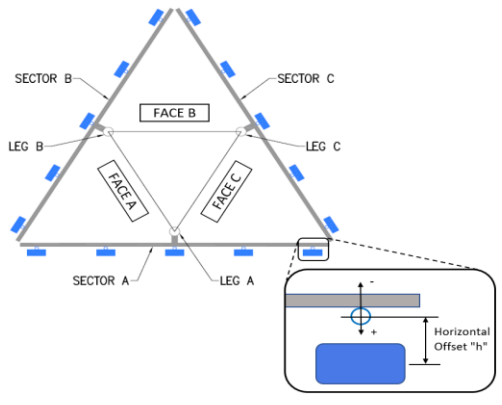
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is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



Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE1 2.37"Ø x 0.16" x 102.5"	50.00	14.00	C1	PIPE1 2.37"Ø x 0.16" x 102.5"	50.00	14.00
A2	PIPE2 2.37"Ø x 0.16" x 102.5"	50.00	65.00	C2	PIPE2 2.37"Ø x 0.16" x 102.5"	50.00	65.00
A3	PIPE3 2.37"Ø x 0.16" x 102.5"	50.00	129.00	C3	PIPE3 2.37"Ø x 0.16" x 102.5"	50.00	129.00
A4	PIPE4 2.37"Ø x 0.16" x 102.5"	50.00	136.00	C4	PIPE4 2.37"Ø x 0.16" x 102.5"	50.00	136.00
A5				C5			
A6				C6			
B1	PIPE1 2.37"Ø x 0.16" x 102.5"	50.00	14.00	D1			
B2	PIPE2 2.37"Ø x 0.16" x 102.5"	50.00	65.00	D2			
B3	PIPE3 2.37"Ø x 0.16" x 102.5"	50.00	129.00	D3			
B4	PIPE4 2.37"Ø x 0.16" x 102.5"	50.00	136.00	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :  
 Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :  
 Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) : 112  
 Please enter additional information or comments below.

Tower Face Width at Mount Elev. (ft.):	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	58
--	---	----

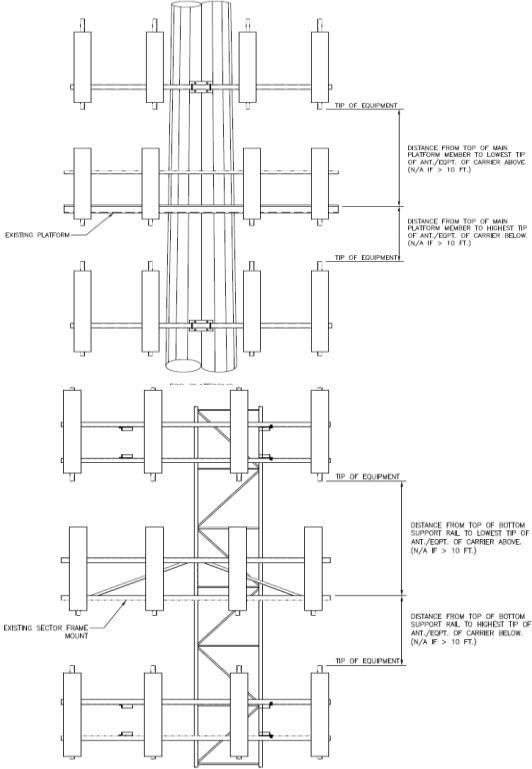


Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b <sub>1a</sub> , b <sub>2a</sub> , b <sub>3a</sub> , b <sub>1b</sub> ..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
<b>Sector A</b>										
Ant <sub>1a</sub>	UNKNOWN	15.00	9.00	49.00		146.417	21.00	14.00	2.00	173
Ant <sub>1b</sub>										
Ant <sub>1c</sub>										
Ant <sub>2a</sub>	UNKNOWN	11.00	6.00	73.00		145.333	34.00	9.00	2.00	173
Ant <sub>2b</sub>										
Ant <sub>2c</sub>										
Ant <sub>3a</sub>	UNKNOWN	6.00	8.00	72.00		145.25	35.00	18.00	2.00	174
Ant <sub>3b</sub>										
Ant <sub>3c</sub>										
Ant <sub>4a</sub>	UNKNOWN	14.00	9.00	48.00		146.167	24.00	13.00	2.00	174
Ant <sub>4b</sub>										
Ant <sub>4c</sub>										
Ant <sub>5a</sub>										
Ant <sub>5b</sub>										
Ant <sub>5c</sub>										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

**Antenna Layout (Looking Out From Tower)**



Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B										
Sector A:	2.00	Deg	Leg A:		Deg	Ant <sub>1a</sub>	UNKNOWN	15.00	9.00	49.00		146.417	21.00	14.00	103.00	183
Sector B:	122.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>										
Sector C:	142.00	Deg	Leg C:		Deg	Ant <sub>1c</sub>										
Sector D:		Deg	Leg D:		Deg	Ant <sub>2a</sub>	UNKNOWN	11.00	6.00	73.00		145.333	34.00	9.00	103.00	183
Climbing Facility Information						Ant <sub>2b</sub>										
Location:	2.00	Deg	Sector A			Ant <sub>2c</sub>										
Climbing Facility	Corrosion Type:		N/A			Ant <sub>3a</sub>	UNKNOWN	6.00	8.00	72.00		145.25	35.00	18.00	103.00	184
	Access:		Climbing path was unobstructed.			Ant <sub>3b</sub>										
	Condition:		Good condition.			Ant <sub>3c</sub>										
						Ant <sub>4a</sub>	UNKNOWN	14.00	9.00	48.00		146.167	24.00	13.00	103.00	184
						Ant <sub>4b</sub>										
						Ant <sub>4c</sub>										
						Ant <sub>5a</sub>										
						Ant <sub>5b</sub>										
						Ant <sub>5c</sub>										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
						Sector C										
						Ant <sub>1a</sub>	UNKNOWN	15.00	9.00	49.00		146.417	21.00	14.00	217.00	195
						Ant <sub>1b</sub>										
						Ant <sub>1c</sub>										
						Ant <sub>2a</sub>	UNKNOWN	11.00	6.00	73.00		145.333	34.00	9.00	217.00	195
						Ant <sub>2b</sub>										
						Ant <sub>2c</sub>										
						Ant <sub>3a</sub>	UNKNOWN	6.00	8.00	72.00		145.25	35.00	18.00	217.00	196
						Ant <sub>3b</sub>										
						Ant <sub>3c</sub>										
						Ant <sub>4a</sub>	UNKNOWN	14.00	9.00	48.00		146.167	24.00	13.00	217.00	196
						Ant <sub>4b</sub>										
						Ant <sub>4c</sub>										
						Ant <sub>5a</sub>										
						Ant <sub>5b</sub>										
						Ant <sub>5c</sub>										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										
						Sector D										
						Ant <sub>1a</sub>										
						Ant <sub>1b</sub>										
						Ant <sub>1c</sub>										
						Ant <sub>2a</sub>										
						Ant <sub>2b</sub>										
						Ant <sub>2c</sub>										
						Ant <sub>3a</sub>										
						Ant <sub>3b</sub>										
						Ant <sub>3c</sub>										
						Ant <sub>4a</sub>										
						Ant <sub>4b</sub>										
						Ant <sub>4c</sub>										
						Ant <sub>5a</sub>										
						Ant <sub>5b</sub>										
						Ant <sub>5c</sub>										
						Ant on Standoff										
						Ant on Standoff										
						Ant on Tower										
						Ant on Tower										



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

1		
2		
3		
4		
5		
6		
7		
8		

**Mapping Notes**

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

**Standard Conditions**

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

### Antenna Mount Mapping Form (PATENT PENDING)

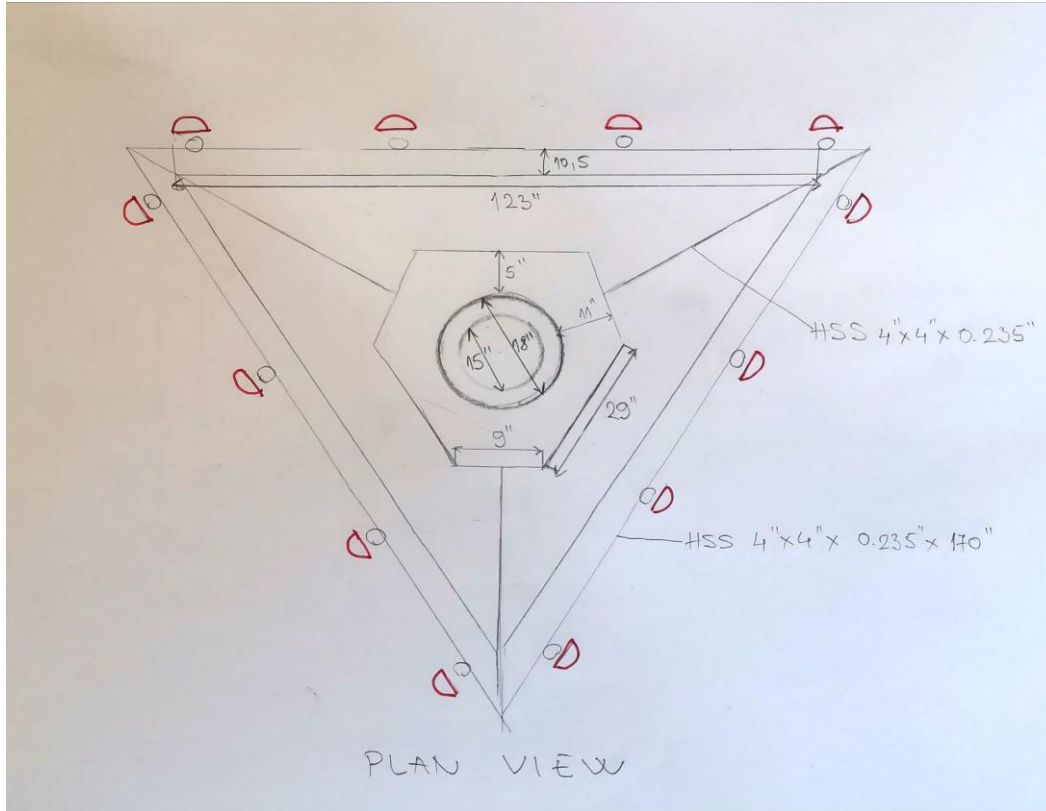


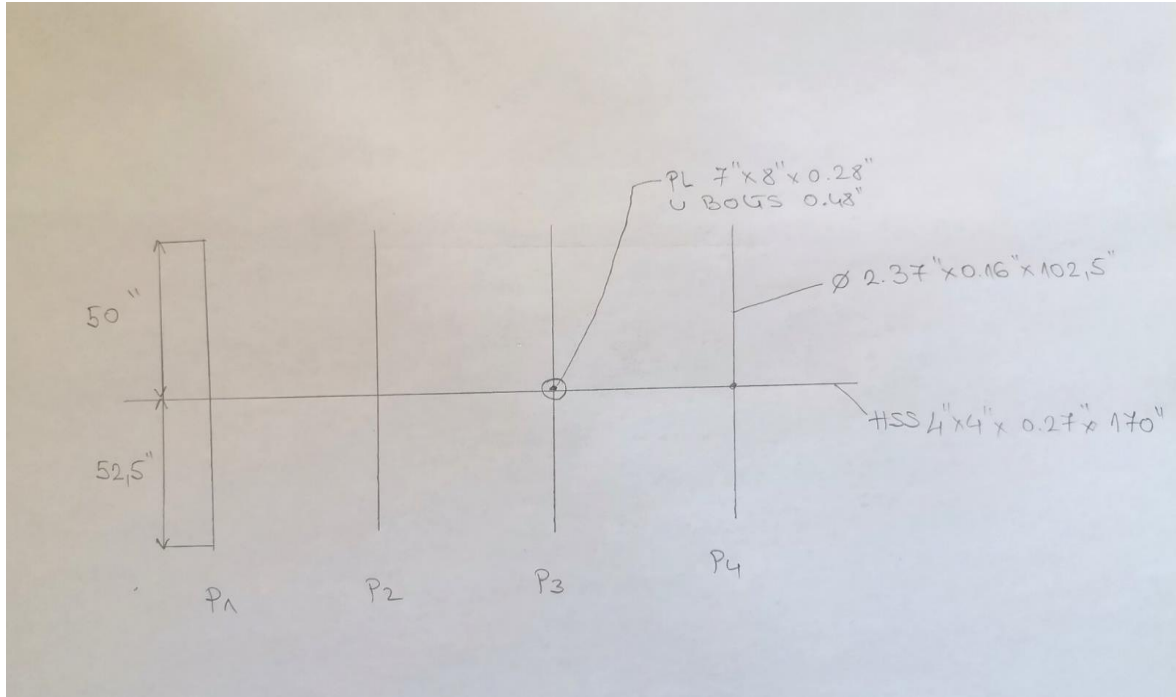
<b>Tower Owner:</b>	OTHER	<b>Mapping Date:</b>	03.30.2021.
<b>Site Name:</b>	BARKHAMSTED W CT	<b>Tower Type:</b>	Monopole
<b>Site Number or ID:</b>	468464	<b>Tower Height (Ft.):</b>	147
<b>Mapping Contractor:</b>	Roaming Networks inc.	<b>Mount Elevation (Ft.):</b>	144

**FCC #**  
411177

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

**Please Insert Sketches of the Antenna Mount**



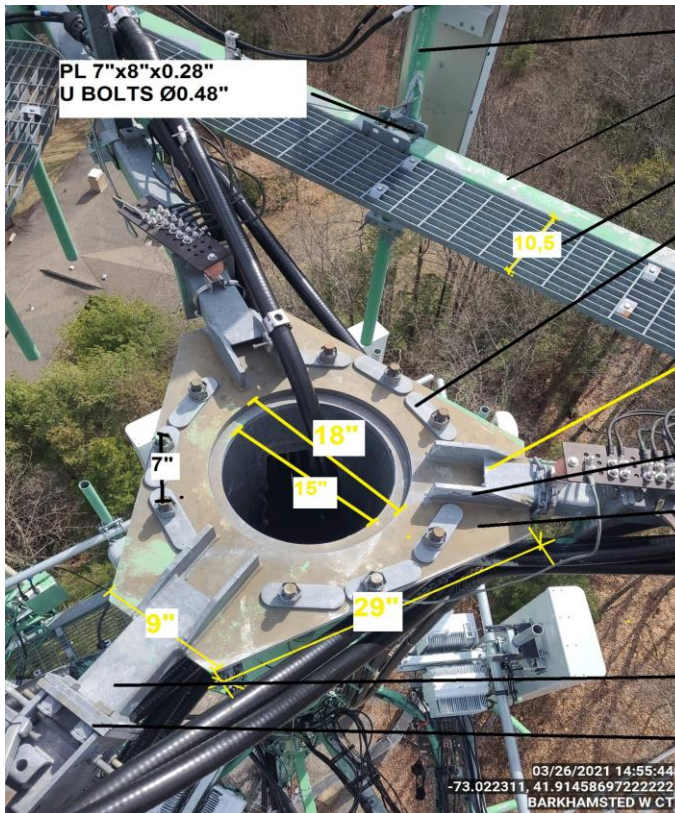




HSS 4"x4"x0.27"

BENT PL 13"x2"x0.23"  
BOLTS Ø 0.44"

PL 7"x 8"x 0.28"  
U BOLTS Ø 0.48"



PL 7"x8"x0.28"  
U BOLTS Ø0.48"

Ø2.37"x0.16"x102.5"

HSS 4"x 4"x 0.235"x 170"

10.5"x2"x 123"

PL 6"x2"  
BOLTS 0.85"

HSS 4"x4"x0.235"

PL 9"x3"x0.48" x0.37"

THICKNESS PL 1.02"

HSS 4"x4"x0.235"x10"

PL 10"x6"x 0.50"



03/26/2021 14:55:44  
-73.022311, 41.91458697222222  
BARKHAMSTED W CT

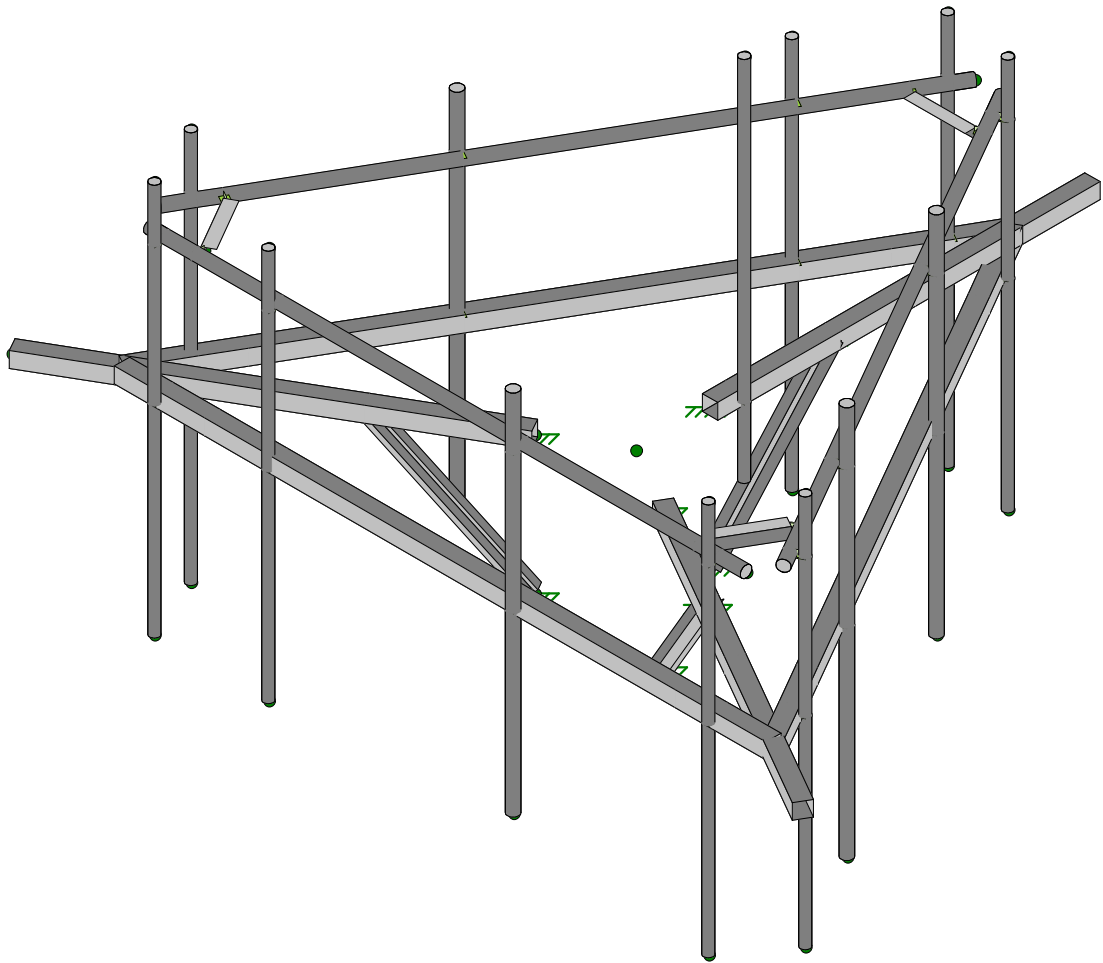
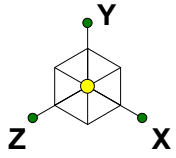


Ø2.33"x0.12"x96.5"

PL 9"x8"x0.39" BOLTS Ø0.46x10"

BOLTS Ø0.68"

PL 10"x6"x0.50"  
BOLTS Ø0.68"



Envelope Only Solution

Colliers Engineering & De...

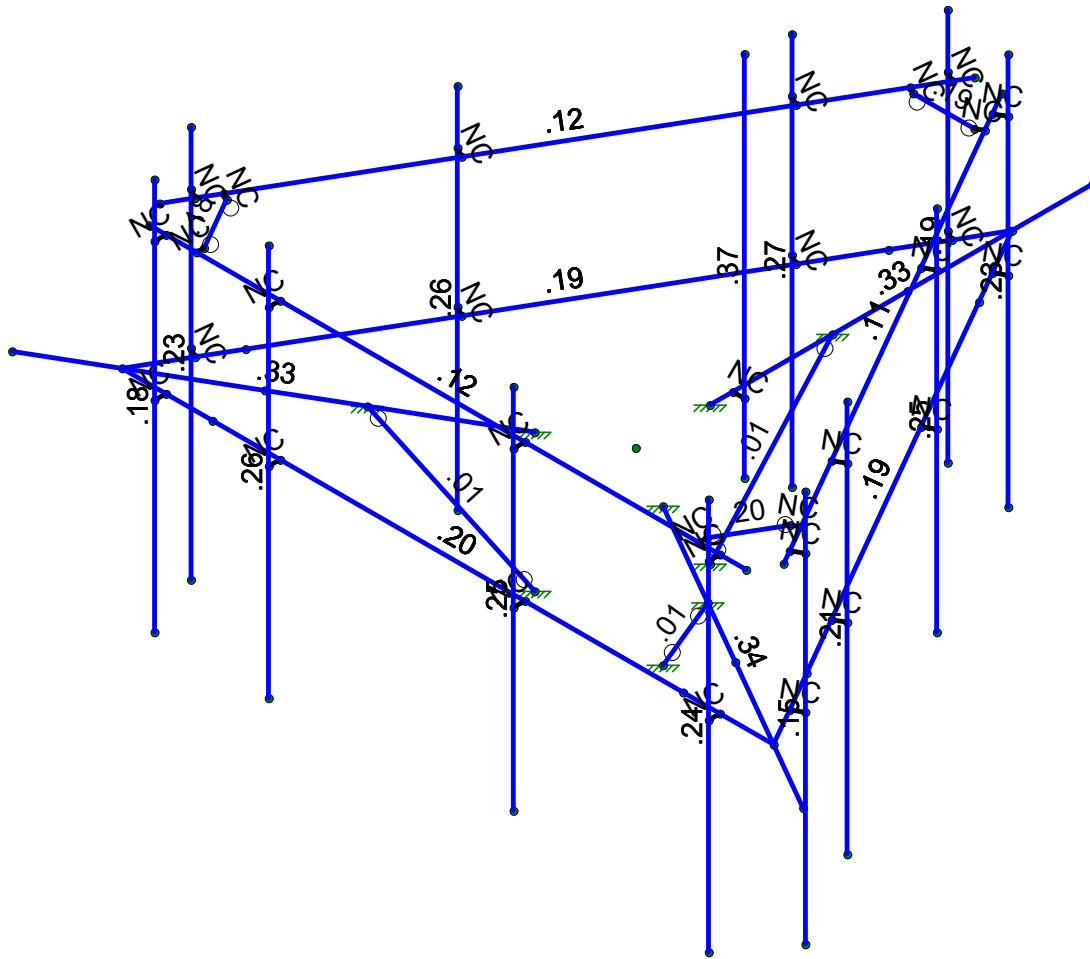
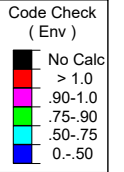
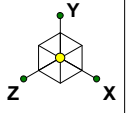
ILR

Project No. 10208046

5000243734-VZW\_MT\_LO\_H

Aug 1, 2023 at 4:43 PM

5000243734-VZW\_MT\_LO\_H.r3d



Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Colliers Engineering & De...	5000243734-VZW_MT_LO_H	Aug 1, 2023 at 4:44 PM
ILR		5000243734-VZW_MT_LO_H.r3d
Project No. 10208046		







**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					135		
2	Antenna Di	None					135		
3	Antenna Wo (0 Deg)	None					135		
4	Antenna Wo (30 Deg)	None					135		
5	Antenna Wo (60 Deg)	None					135		
6	Antenna Wo (90 Deg)	None					135		
7	Antenna Wo (120 Deg)	None					135		
8	Antenna Wo (150 Deg)	None					135		
9	Antenna Wo (180 Deg)	None					135		
10	Antenna Wo (210 Deg)	None					135		
11	Antenna Wo (240 Deg)	None					135		
12	Antenna Wo (270 Deg)	None					135		
13	Antenna Wo (300 Deg)	None					135		
14	Antenna Wo (330 Deg)	None					135		
15	Antenna Wi (0 Deg)	None					135		
16	Antenna Wi (30 Deg)	None					135		
17	Antenna Wi (60 Deg)	None					135		
18	Antenna Wi (90 Deg)	None					135		
19	Antenna Wi (120 Deg)	None					135		
20	Antenna Wi (150 Deg)	None					135		
21	Antenna Wi (180 Deg)	None					135		
22	Antenna Wi (210 Deg)	None					135		
23	Antenna Wi (240 Deg)	None					135		
24	Antenna Wi (270 Deg)	None					135		
25	Antenna Wi (300 Deg)	None					135		
26	Antenna Wi (330 Deg)	None					135		
27	Antenna Wm (0 Deg)	None					135		
28	Antenna Wm (30 Deg)	None					135		
29	Antenna Wm (60 Deg)	None					135		
30	Antenna Wm (90 Deg)	None					135		
31	Antenna Wm (120 Deg)	None					135		
32	Antenna Wm (150 Deg)	None					135		
33	Antenna Wm (180 Deg)	None					135		
34	Antenna Wm (210 Deg)	None					135		
35	Antenna Wm (240 Deg)	None					135		
36	Antenna Wm (270 Deg)	None					135		
37	Antenna Wm (300 Deg)	None					135		
38	Antenna Wm (330 Deg)	None					135		
39	Structure D	None		-1				28	3
40	Structure Di	None						56	3
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	







### Load Combinations (Continued)

Description	Sol.	PD	SR	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.	BLC Fact.						
75	0.9D - 1.0...	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-5	ELZ	.866	ELX	-5

### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	0	0	-1.614583	0	
2	N27	0	0	-9.945417	0	
3	CP	0	0	0	0	
4	N68B	7.097013	0	4.097463	0	
5	N69A	0	0	-8.194925	0	
6	N72A	-7.097013	0	4.097463	0	
7	N64	-1.39827	0	0.807292	0	
8	N65	-8.612983	0	4.972708	0	
9	N67	1.39827	0	0.807292	0	
10	N68A	8.612983	0	4.972708	0	
11	N11	5.930347	0	4.097463	0	
12	N12	1.680347	0	4.097463	0	
13	N13	-3.652987	0	4.097463	0	
14	N14	-6.13932	0	4.097463	0	
15	N19A	5.930347	0	4.347463	0	
16	N20	1.680347	0	4.347463	0	
17	N21	-3.652987	0	4.347463	0	
18	N22	-6.13932	0	4.347463	0	
19	N23	5.930347	4.166667	4.347463	0	
20	N24	1.680347	4.166667	4.347463	0	
21	N25	-3.652987	4.166667	4.347463	0	
22	N26	-6.13932	4.166667	4.347463	0	
23	N27A	5.930347	-4.375	4.347463	0	
24	N28	1.680347	-3.833333	4.347463	0	
25	N29	-3.652987	-4.375	4.347463	0	
26	N30	-6.13932	-4.375	4.347463	0	
27	N32	0.583333	0	-7.184562	0	
28	N33	2.708333	0	-3.503954	0	
29	N34	5.375	0	1.114848	0	
30	N36	0.79984	0	-7.309562	0	
31	N37	2.92484	0	-3.628954	0	
32	N38	5.591506	0	0.989848	0	
33	N40	0.79984	4.166667	-7.309562	0	
34	N41	2.92484	4.166667	-3.628954	0	
35	N42	5.591506	4.166667	0.989848	0	
36	N44	0.79984	-4.375	-7.309562	0	
37	N45	2.92484	-3.833333	-3.628954	0	
38	N46	5.591506	-4.375	0.989848	0	
39	N49	-6.51368	0	3.0871	0	
40	N50	-4.38868	0	-0.593508	0	
41	N51	-1.722013	0	-5.212311	0	
42	N53	-6.730186	0	2.9621	0	
43	N54	-4.605186	0	-0.718508	0	
44	N55	-1.93852	0	-5.337311	0	
45	N57	-6.730186	4.166667	2.9621	0	
46	N58	-4.605186	4.166667	-0.718508	0	
47	N59	-1.93852	4.166667	-5.337311	0	
48	N61	-6.730186	-4.375	2.9621	0	
49	N62	-4.605186	-3.833333	-0.718508	0	
50	N63	-1.93852	-4.375	-5.337311	0	
51	N74	0	0	-2.114583	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N75	.25	0	-2.114583	0	
53	N76	.25	-1.5	-2.114583	0	
54	N77	.25	6.5	-2.114583	0	
55	N77A	5.125	0	2.95892	0	
56	N78	0.	0	-5.91784	0	
57	N80	-5.125	0	2.95892	0	
58	N75A	0	-3	-1.614583	0	
59	N77B	-1.39827	-3	0.807292	0	
60	N79	1.39827	-3	0.807292	0	
61	N78A	6.500013	3	4.097463	0	
62	N79A	-6.500013	3	4.097463	0	
63	N80A	5.930347	3	4.097463	0	
64	N81	1.680347	3	4.097463	0	
65	N82	-3.652987	3	4.097463	0	
66	N83	-6.13932	3	4.097463	0	
67	N84	5.930347	3	4.347463	0	
68	N85	1.680347	3	4.347463	0	
69	N86	-3.652987	3	4.347463	0	
70	N87	-6.13932	3	4.347463	0	
71	N71	6.618167	0	3.268076	0	
72	N72	6.834673	0	3.143076	0	
73	N73	6.834673	4.166667	3.143076	0	
74	N74A	6.834673	-4.375	3.143076	0	
75	N75B	0.2985	3	-7.677908	0	
76	N76A	6.798513	3	3.580445	0	
77	N77C	6.618167	3	3.268076	0	
78	N78B	6.834673	3	3.143076	0	
79	N79B	-0.478847	0	-7.365538	0	
80	N80B	-0.695353	0	-7.490538	0	
81	N81A	-0.695353	4.166667	-7.490538	0	
82	N82A	-0.695353	-4.375	-7.490538	0	
83	N83A	-6.798513	3	3.580445	0	
84	N84A	-0.2985	3	-7.677908	0	
85	N85A	-0.478847	3	-7.365538	0	
86	N86A	-0.695353	3	-7.490538	0	
87	N87A	-5.472653	3	4.097463	0	
88	N88	-5.472653	3	3.930796	0	
89	N89	5.472653	3	4.097463	0	
90	N90	5.472653	3	3.930796	0	
91	N91	0.583333	3	-7.184562	0	
92	N92	2.708333	3	-3.503954	0	
93	N93	5.375	3	1.114848	0	
94	N94	0.79984	3	-7.309562	0	
95	N95	2.92484	3	-3.628954	0	
96	N96	5.591506	3	0.989848	0	
97	N97	6.284833	3	2.690726	0	
98	N98	6.140496	3	2.774059	0	
99	N99	0.81218	3	-6.788188	0	
100	N100	0.667842	3	-6.704855	0	
101	N101	-6.51368	3	3.0871	0	
102	N102	-4.38868	3	-0.593508	0	
103	N103	-1.722013	3	-5.212311	0	
104	N104	-6.730186	3	2.9621	0	
105	N105	-4.605186	3	-0.718508	0	
106	N106	-1.93852	3	-5.337311	0	
107	N107	-0.81218	3	-6.788188	0	
108	N108	-0.667842	3	-6.704855	0	



### Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N109	-6.284833	3	2.690726	0	
110	N110	-6.140496	3	2.774059	0	
111	N111	5.125	0	4.097462	0	
112	N112	-5.125	0	4.097462	0	
113	N113	0.986006	0	-6.487111	0	
114	N114	6.111006	0	2.389649	0	
115	N115	-6.111006	0	2.389649	0	
116	N116	-0.986006	0	-6.487111	0	
117	N117	0	0	-4.28125	0	
118	N118	-3.707671	0	2.140625	0	
119	N119	3.707671	0	2.140625	0	

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizo...	HSS4X4X4	Beam	SquareTube	A500 Gr.B R...	Typical	3.37	7.8	7.8	12.8
2	Standoff Hor...	HSS4X4X4	Beam	SquareTube	A500 Gr.B R...	Typical	3.37	7.8	7.8	12.8
3	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Dual Mount ...	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
5	Kicker	LL3x3x3x3	Column	Double Angl...	A36 Gr.36	Typical	2.18	4.09	1.9	.027
6	Support Rail	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
7	Support Rail ...	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031

### Hot Rolled Steel Properties

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

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
2	M68B	N72A	N68B			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
3	M25A	N68B	N69A			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
4	M26A	N69A	N72A			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
5	M25	N64	N65			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
6	M26	N67	N68A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
7	M7	N22	N14			RIGID	None	None	RIGID	Typical
8	M8	N21	N13			RIGID	None	None	RIGID	Typical
9	M9	N20	N12			RIGID	None	None	RIGID	Typical
10	M10	N19A	N11			RIGID	None	None	RIGID	Typical
11	MP4A	N26	N30			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	MP3A	N25	N29			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
13	MP2A	N24	N28			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
14	MP1A	N23	N27A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
15	M16	N38	N34			RIGID	None	None	RIGID	Typical
16	M17	N37	N33			RIGID	None	None	RIGID	Typical
17	M18	N36	N32			RIGID	None	None	RIGID	Typical



**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
18	MP3C	N42	N46			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
19	MP2C	N41	N45			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
20	MP1C	N40	N44			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
21	M24	N55	N51			RIGID	None	None	RIGID	Typical
22	M25B	N54	N50			RIGID	None	None	RIGID	Typical
23	M26B	N53	N49			RIGID	None	None	RIGID	Typical
24	MP3B	N59	N63			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
25	MP2B	N58	N62			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
26	MP1B	N57	N61			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
27	M31	N74	N75			RIGID	None	None	RIGID	Typical
28	OVP	N77	N76			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
29	M33	N117	N75A			Kicker	Column	Double Angle (...)	A36 Gr.36	Typical
30	M34	N118	N77B			Kicker	Column	Double Angle (...)	A36 Gr.36	Typical
31	M35	N119	N79			Kicker	Column	Double Angle (...)	A36 Gr.36	Typical
32	M36	N79A	N78A			Support Rail	Column	Pipe	A53 Gr.B	Typical
33	M37	N87	N83			RIGID	None	None	RIGID	Typical
34	M38	N86	N82			RIGID	None	None	RIGID	Typical
35	M39	N85	N81			RIGID	None	None	RIGID	Typical
36	M40	N84	N80A			RIGID	None	None	RIGID	Typical
37	M37A	N72	N71			RIGID	None	None	RIGID	Typical
38	MP4C	N73	N74A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
39	M39A	N76A	N75B			Support Rail	Column	Pipe	A53 Gr.B	Typical
40	M40A	N78B	N77C			RIGID	None	None	RIGID	Typical
41	M41	N80B	N79B			RIGID	None	None	RIGID	Typical
42	MP4B	N81A	N82A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
43	M43	N84A	N83A			Support Rail	Column	Pipe	A53 Gr.B	Typical
44	M44	N86A	N85A			RIGID	None	None	RIGID	Typical
45	M45	N87A	N88			RIGID	None	None	RIGID	Typical
46	M46	N89	N90			RIGID	None	None	RIGID	Typical
47	M47	N96	N93			RIGID	None	None	RIGID	Typical
48	M48	N95	N92			RIGID	None	None	RIGID	Typical
49	M49	N94	N91			RIGID	None	None	RIGID	Typical
50	M50	N97	N98			RIGID	None	None	RIGID	Typical
51	M51	N99	N100			RIGID	None	None	RIGID	Typical
52	M52	N106	N103			RIGID	None	None	RIGID	Typical
53	M53	N105	N102			RIGID	None	None	RIGID	Typical
54	M54	N104	N101			RIGID	None	None	RIGID	Typical
55	M55	N107	N108			RIGID	None	None	RIGID	Typical
56	M56	N109	N110			RIGID	None	None	RIGID	Typical
57	M57	N88	N110		90	Support Rail C...	Column	Single Angle	A36 Gr.36	Typical
58	M58	N108	N100		90	Support Rail C...	Column	Single Angle	A36 Gr.36	Typical
59	M59	N98	N90		90	Support Rail C...	Column	Single Angle	A36 Gr.36	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M4						Yes				None
2	M68B						Yes				None
3	M25A						Yes				None
4	M26A						Yes				None
5	M25						Yes				None
6	M26						Yes				None
7	M7						Yes	** NA **			None
8	M8						Yes	** NA **			None
9	M9						Yes	** NA **			None
10	M10						Yes	** NA **			None





**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
11	MP4A						Yes	** NA **			None
12	MP3A						Yes	** NA **			None
13	MP2A						Yes	** NA **			None
14	MP1A						Yes	** NA **			None
15	M16						Yes	** NA **			None
16	M17						Yes	** NA **			None
17	M18						Yes	** NA **			None
18	MP3C						Yes	** NA **			None
19	MP2C						Yes	** NA **			None
20	MP1C						Yes	** NA **			None
21	M24						Yes	** NA **			None
22	M25B						Yes	** NA **			None
23	M26B						Yes	** NA **			None
24	MP3B						Yes	** NA **			None
25	MP2B						Yes	** NA **			None
26	MP1B						Yes	** NA **			None
27	M31						Yes	** NA **			None
28	OVP						Yes	** NA **			None
29	M33	BenPIN	BenPIN				Yes	** NA **			None
30	M34	BenPIN	BenPIN				Yes	** NA **			None
31	M35	BenPIN	BenPIN				Yes	** NA **			None
32	M36						Yes	** NA **			None
33	M37						Yes	** NA **			None
34	M38						Yes	** NA **			None
35	M39						Yes	** NA **			None
36	M40						Yes	** NA **			None
37	M37A						Yes	** NA **			None
38	MP4C						Yes	** NA **			None
39	M39A						Yes	** NA **			None
40	M40A						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	MP4B						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	M45	OOOOOX					Yes	** NA **			None
46	M46	OOOOOX					Yes	** NA **			None
47	M47						Yes	** NA **			None
48	M48						Yes	** NA **			None
49	M49						Yes	** NA **			None
50	M50	OOOOOX					Yes	** NA **			None
51	M51	OOOOOX					Yes	** NA **			None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55	OOOOOX					Yes	** NA **			None
56	M56	OOOOOX					Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59						Yes	** NA **			None

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-32.5	.92
2	MP2A	My	-.024	.92
3	MP2A	Mz	.022	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
61	MP1C	Y	-84.4	3
62	MP1C	My	-.014	3
63	MP1C	Mz	-.04	3
64	MP2A	Y	-70.3	3
65	MP2A	My	.035	3
66	MP2A	Mz	0	3
67	MP2B	Y	-70.3	3
68	MP2B	My	-.018	3
69	MP2B	Mz	.03	3
70	MP2C	Y	-70.3	3
71	MP2C	My	-.012	3
72	MP2C	Mz	-.033	3
73	OVP	Y	-32	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	-10	1
77	MP1A	My	-.007	1
78	MP1A	Mz	0	1
79	MP1A	Y	-10	3
80	MP1A	My	-.007	3
81	MP1A	Mz	0	3
82	MP1B	Y	-10	1
83	MP1B	My	.004	1
84	MP1B	Mz	-.006	1
85	MP1B	Y	-10	3
86	MP1B	My	.004	3
87	MP1B	Mz	-.006	3
88	MP1C	Y	-10	1
89	MP1C	My	.003	1
90	MP1C	Mz	.007	1
91	MP1C	Y	-10	3
92	MP1C	My	.003	3
93	MP1C	Mz	.007	3
94	MP4A	Y	-10	1
95	MP4A	My	-.007	1
96	MP4A	Mz	0	1
97	MP4A	Y	-10	3
98	MP4A	My	-.007	3
99	MP4A	Mz	0	3
100	MP4B	Y	-10	1
101	MP4B	My	.004	1
102	MP4B	Mz	-.006	1
103	MP4B	Y	-10	3
104	MP4B	My	.004	3
105	MP4B	Mz	-.006	3
106	MP4C	Y	-10	1
107	MP4C	My	.003	1
108	MP4C	Mz	.007	1
109	MP4C	Y	-10	3
110	MP4C	My	.003	3
111	MP4C	Mz	.007	3
112	MP2A	Y	-8.8	5
113	MP2A	My	.009	5
114	MP2A	Mz	.003	5
115	MP2A	Y	-8.8	6
116	MP2A	My	.009	6
117	MP2A	Mz	.003	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
118	MP2B	Y	-8.8	5
119	MP2B	My	-.007	5
120	MP2B	Mz	.006	5
121	MP2B	Y	-8.8	6
122	MP2B	My	-.007	6
123	MP2B	Mz	.006	6
124	MP2A	Y	-8.8	5
125	MP2A	My	.009	5
126	MP2A	Mz	-.003	5
127	MP2A	Y	-8.8	6
128	MP2A	My	.009	6
129	MP2A	Mz	-.003	6
130	MP2B	Y	-8.8	5
131	MP2B	My	-.002	5
132	MP2B	Mz	.009	5
133	MP2B	Y	-8.8	6
134	MP2B	My	-.002	6
135	MP2B	Mz	.009	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Y	-69.166	.92
2	MP2A	My	-.052	.92
3	MP2A	Mz	.046	.92
4	MP2A	Y	-69.166	4.92
5	MP2A	My	-.052	4.92
6	MP2A	Mz	.046	4.92
7	MP2B	Y	-69.166	.92
8	MP2B	My	.061	.92
9	MP2B	Mz	.033	.92
10	MP2B	Y	-69.166	4.92
11	MP2B	My	.061	4.92
12	MP2B	Mz	.033	4.92
13	MP2C	Y	-69.166	.92
14	MP2C	My	.061	.92
15	MP2C	Mz	.033	.92
16	MP2C	Y	-69.166	4.92
17	MP2C	My	.061	4.92
18	MP2C	Mz	.033	4.92
19	MP2A	Y	-69.166	.92
20	MP2A	My	-.052	.92
21	MP2A	Mz	-.046	.92
22	MP2A	Y	-69.166	4.92
23	MP2A	My	-.052	4.92
24	MP2A	Mz	-.046	4.92
25	MP2B	Y	-69.166	.92
26	MP2B	My	.066	.92
27	MP2B	Mz	-.022	.92
28	MP2B	Y	-69.166	4.92
29	MP2B	My	.066	4.92
30	MP2B	Mz	-.022	4.92
31	MP2C	Y	-69.166	.92
32	MP2C	My	-.026	.92
33	MP2C	Mz	.065	.92
34	MP2C	Y	-69.166	4.92
35	MP2C	My	-.026	4.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
36	MP2C	Mz	.065	4.92
37	MP3A	Y	-35.743	1
38	MP3A	My	-.027	1
39	MP3A	Mz	0	1
40	MP3A	Y	-35.743	3
41	MP3A	My	-.027	3
42	MP3A	Mz	0	3
43	MP3B	Y	-35.743	1
44	MP3B	My	.013	1
45	MP3B	Mz	-.023	1
46	MP3B	Y	-35.743	3
47	MP3B	My	.013	3
48	MP3B	Mz	-.023	3
49	MP3C	Y	-35.743	1
50	MP3C	My	.009	1
51	MP3C	Mz	.025	1
52	MP3C	Y	-35.743	3
53	MP3C	My	.009	3
54	MP3C	Mz	.025	3
55	MP1A	Y	-45.066	3
56	MP1A	My	.023	3
57	MP1A	Mz	0	3
58	MP1B	Y	-45.066	3
59	MP1B	My	-.011	3
60	MP1B	Mz	.02	3
61	MP1C	Y	-45.066	3
62	MP1C	My	-.008	3
63	MP1C	Mz	-.021	3
64	MP2A	Y	-40.529	3
65	MP2A	My	.02	3
66	MP2A	Mz	0	3
67	MP2B	Y	-40.529	3
68	MP2B	My	-.01	3
69	MP2B	Mz	.018	3
70	MP2C	Y	-40.529	3
71	MP2C	My	-.007	3
72	MP2C	Mz	-.019	3
73	OVP	Y	-76.223	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	-63.072	1
77	MP1A	My	-.047	1
78	MP1A	Mz	0	1
79	MP1A	Y	-63.072	3
80	MP1A	My	-.047	3
81	MP1A	Mz	0	3
82	MP1B	Y	-63.072	1
83	MP1B	My	.024	1
84	MP1B	Mz	-.041	1
85	MP1B	Y	-63.072	3
86	MP1B	My	.024	3
87	MP1B	Mz	-.041	3
88	MP1C	Y	-63.072	1
89	MP1C	My	.016	1
90	MP1C	Mz	.044	1
91	MP1C	Y	-63.072	3
92	MP1C	My	.016	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
93	MP1C	Mz	.044	3
94	MP4A	Y	-63.072	1
95	MP4A	My	-.047	1
96	MP4A	Mz	0	1
97	MP4A	Y	-63.072	3
98	MP4A	My	-.047	3
99	MP4A	Mz	0	3
100	MP4B	Y	-63.072	1
101	MP4B	My	.024	1
102	MP4B	Mz	-.041	1
103	MP4B	Y	-63.072	3
104	MP4B	My	.024	3
105	MP4B	Mz	-.041	3
106	MP4C	Y	-63.072	1
107	MP4C	My	.016	1
108	MP4C	Mz	.044	1
109	MP4C	Y	-63.072	3
110	MP4C	My	.016	3
111	MP4C	Mz	.044	3
112	MP2A	Y	-8.707	5
113	MP2A	My	.009	5
114	MP2A	Mz	.003	5
115	MP2A	Y	-8.707	6
116	MP2A	My	.009	6
117	MP2A	Mz	.003	6
118	MP2B	Y	-8.707	5
119	MP2B	My	-.007	5
120	MP2B	Mz	.006	5
121	MP2B	Y	-8.707	6
122	MP2B	My	-.007	6
123	MP2B	Mz	.006	6
124	MP2A	Y	-8.707	5
125	MP2A	My	.009	5
126	MP2A	Mz	-.003	5
127	MP2A	Y	-8.707	6
128	MP2A	My	.009	6
129	MP2A	Mz	-.003	6
130	MP2B	Y	-8.707	5
131	MP2B	My	-.002	5
132	MP2B	Mz	.009	5
133	MP2B	Y	-8.707	6
134	MP2B	My	-.002	6
135	MP2B	Mz	.009	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.92
2	MP2A	Z	-125.011	.92
3	MP2A	Mx	-.083	.92
4	MP2A	X	0	4.92
5	MP2A	Z	-125.011	4.92
6	MP2A	Mx	-.083	4.92
7	MP2B	X	0	.92
8	MP2B	Z	-106.952	.92
9	MP2B	Mx	-.051	.92
10	MP2B	X	0	4.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP2B	Z	-106.952	4.92
12	MP2B	Mx	-.051	4.92
13	MP2C	X	0	.92
14	MP2C	Z	-106.952	.92
15	MP2C	Mx	-.051	.92
16	MP2C	X	0	4.92
17	MP2C	Z	-106.952	4.92
18	MP2C	Mx	-.051	4.92
19	MP2A	X	0	.92
20	MP2A	Z	-125.011	.92
21	MP2A	Mx	.083	.92
22	MP2A	X	0	4.92
23	MP2A	Z	-125.011	4.92
24	MP2A	Mx	.083	4.92
25	MP2B	X	0	.92
26	MP2B	Z	-109.673	.92
27	MP2B	Mx	.035	.92
28	MP2B	X	0	4.92
29	MP2B	Z	-109.673	4.92
30	MP2B	Mx	.035	4.92
31	MP2C	X	0	.92
32	MP2C	Z	-106.952	.92
33	MP2C	Mx	-.1	.92
34	MP2C	X	0	4.92
35	MP2C	Z	-106.952	4.92
36	MP2C	Mx	-.1	4.92
37	MP3A	X	0	1
38	MP3A	Z	-60.276	1
39	MP3A	Mx	0	1
40	MP3A	X	0	3
41	MP3A	Z	-60.276	3
42	MP3A	Mx	0	3
43	MP3B	X	0	1
44	MP3B	Z	-30.638	1
45	MP3B	Mx	.02	1
46	MP3B	X	0	3
47	MP3B	Z	-30.638	3
48	MP3B	Mx	.02	3
49	MP3C	X	0	1
50	MP3C	Z	-25.381	1
51	MP3C	Mx	-.018	1
52	MP3C	X	0	3
53	MP3C	Z	-25.381	3
54	MP3C	Mx	-.018	3
55	MP1A	X	0	3
56	MP1A	Z	-47.667	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	-35.904	3
60	MP1B	Mx	-.016	3
61	MP1C	X	0	3
62	MP1C	Z	-33.818	3
63	MP1C	Mx	.016	3
64	MP2A	X	0	3
65	MP2A	Z	-47.667	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
68	MP2B	Z	-31.522	3
69	MP2B	Mx	-.014	3
70	MP2C	X	0	3
71	MP2C	Z	-28.658	3
72	MP2C	Mx	.013	3
73	OVP	X	0	1
74	OVP	Z	-97.487	1
75	OVP	Mx	0	1
76	MP1A	X	0	1
77	MP1A	Z	-94.565	1
78	MP1A	Mx	0	1
79	MP1A	X	0	3
80	MP1A	Z	-94.565	3
81	MP1A	Mx	0	3
82	MP1B	X	0	1
83	MP1B	Z	-85.787	1
84	MP1B	Mx	.056	1
85	MP1B	X	0	3
86	MP1B	Z	-85.787	3
87	MP1B	Mx	.056	3
88	MP1C	X	0	1
89	MP1C	Z	-84.23	1
90	MP1C	Mx	-.059	1
91	MP1C	X	0	3
92	MP1C	Z	-84.23	3
93	MP1C	Mx	-.059	3
94	MP4A	X	0	1
95	MP4A	Z	-94.565	1
96	MP4A	Mx	0	1
97	MP4A	X	0	3
98	MP4A	Z	-94.565	3
99	MP4A	Mx	0	3
100	MP4B	X	0	1
101	MP4B	Z	-85.787	1
102	MP4B	Mx	.056	1
103	MP4B	X	0	3
104	MP4B	Z	-85.787	3
105	MP4B	Mx	.056	3
106	MP4C	X	0	1
107	MP4C	Z	-84.23	1
108	MP4C	Mx	-.059	1
109	MP4C	X	0	3
110	MP4C	Z	-84.23	3
111	MP4C	Mx	-.059	3
112	MP2A	X	0	5
113	MP2A	Z	-14.761	5
114	MP2A	Mx	-.005	5
115	MP2A	X	0	6
116	MP2A	Z	-14.761	6
117	MP2A	Mx	-.005	6
118	MP2B	X	0	5
119	MP2B	Z	-14.794	5
120	MP2B	Mx	-.01	5
121	MP2B	X	0	6
122	MP2B	Z	-14.794	6
123	MP2B	Mx	-.01	6
124	MP2A	X	0	5







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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
43	MP3B	X	10.379	1
44	MP3B	Z	-17.977	1
45	MP3B	Mx	.016	1
46	MP3B	X	10.379	3
47	MP3B	Z	-17.977	3
48	MP3B	Mx	.016	3
49	MP3C	X	21.974	1
50	MP3C	Z	-38.06	1
51	MP3C	Mx	-.021	1
52	MP3C	X	21.974	3
53	MP3C	Z	-38.06	3
54	MP3C	Mx	-.021	3
55	MP1A	X	21.873	3
56	MP1A	Z	-37.885	3
57	MP1A	Mx	.011	3
58	MP1B	X	15.992	3
59	MP1B	Z	-27.698	3
60	MP1B	Mx	-.016	3
61	MP1C	X	20.593	3
62	MP1C	Z	-35.669	3
63	MP1C	Mx	.013	3
64	MP2A	X	21.143	3
65	MP2A	Z	-36.62	3
66	MP2A	Mx	.011	3
67	MP2B	X	13.07	3
68	MP2B	Z	-22.638	3
69	MP2B	Mx	-.013	3
70	MP2C	X	19.386	3
71	MP2C	Z	-33.578	3
72	MP2C	Mx	.012	3
73	OVP	X	45.822	1
74	OVP	Z	-79.366	1
75	OVP	Mx	0	1
76	MP1A	X	45.82	1
77	MP1A	Z	-79.362	1
78	MP1A	Mx	-.034	1
79	MP1A	X	45.82	3
80	MP1A	Z	-79.362	3
81	MP1A	Mx	-.034	3
82	MP1B	X	41.431	1
83	MP1B	Z	-71.76	1
84	MP1B	Mx	.062	1
85	MP1B	X	41.431	3
86	MP1B	Z	-71.76	3
87	MP1B	Mx	.062	3
88	MP1C	X	44.865	1
89	MP1C	Z	-77.708	1
90	MP1C	Mx	-.043	1
91	MP1C	X	44.865	3
92	MP1C	Z	-77.708	3
93	MP1C	Mx	-.043	3
94	MP4A	X	45.82	1
95	MP4A	Z	-79.362	1
96	MP4A	Mx	-.034	1
97	MP4A	X	45.82	3
98	MP4A	Z	-79.362	3
99	MP4A	Mx	-.034	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
100	MP4B	X	41.431	1
101	MP4B	Z	-71.76	1
102	MP4B	Mx	.062	1
103	MP4B	X	41.431	3
104	MP4B	Z	-71.76	3
105	MP4B	Mx	.062	3
106	MP4C	X	44.865	1
107	MP4C	Z	-77.708	1
108	MP4C	Mx	-.043	1
109	MP4C	X	44.865	3
110	MP4C	Z	-77.708	3
111	MP4C	Mx	-.043	3
112	MP2A	X	7.386	5
113	MP2A	Z	-12.793	5
114	MP2A	Mx	.003	5
115	MP2A	X	7.386	6
116	MP2A	Z	-12.793	6
117	MP2A	Mx	.003	6
118	MP2B	X	7.402	5
119	MP2B	Z	-12.821	5
120	MP2B	Mx	-.015	5
121	MP2B	X	7.402	6
122	MP2B	Z	-12.821	6
123	MP2B	Mx	-.015	6
124	MP2A	X	7.386	5
125	MP2A	Z	-12.793	5
126	MP2A	Mx	.012	5
127	MP2A	X	7.386	6
128	MP2A	Z	-12.793	6
129	MP2A	Mx	.012	6
130	MP2B	X	7.402	5
131	MP2B	Z	-12.821	5
132	MP2B	Mx	-.015	5
133	MP2B	X	7.402	6
134	MP2B	Z	-12.821	6
135	MP2B	Mx	-.015	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	94.979	.92
2	MP2A	Z	-54.836	.92
3	MP2A	Mx	-.108	.92
4	MP2A	X	94.979	4.92
5	MP2A	Z	-54.836	4.92
6	MP2A	Mx	-.108	4.92
7	MP2B	X	107.728	.92
8	MP2B	Z	-62.197	.92
9	MP2B	Mx	.065	.92
10	MP2B	X	107.728	4.92
11	MP2B	Z	-62.197	4.92
12	MP2B	Mx	.065	4.92
13	MP2C	X	107.728	.92
14	MP2C	Z	-62.197	.92
15	MP2C	Mx	.065	.92
16	MP2C	X	107.728	4.92
17	MP2C	Z	-62.197	4.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	MP2C	Mx	.065	4.92
19	MP2A	X	94.979	.92
20	MP2A	Z	-54.836	.92
21	MP2A	Mx	-.035	.92
22	MP2A	X	94.979	4.92
23	MP2A	Z	-54.836	4.92
24	MP2A	Mx	-.035	4.92
25	MP2B	X	94.979	.92
26	MP2B	Z	-54.836	.92
27	MP2B	Mx	.108	.92
28	MP2B	X	94.979	4.92
29	MP2B	Z	-54.836	4.92
30	MP2B	Mx	.108	4.92
31	MP2C	X	107.728	.92
32	MP2C	Z	-62.197	.92
33	MP2C	Mx	-.098	.92
34	MP2C	X	107.728	4.92
35	MP2C	Z	-62.197	4.92
36	MP2C	Mx	-.098	4.92
37	MP3A	X	26.533	1
38	MP3A	Z	-15.319	1
39	MP3A	Mx	-.02	1
40	MP3A	X	26.533	3
41	MP3A	Z	-15.319	3
42	MP3A	Mx	-.02	3
43	MP3B	X	26.533	1
44	MP3B	Z	-15.319	1
45	MP3B	Mx	.02	1
46	MP3B	X	26.533	3
47	MP3B	Z	-15.319	3
48	MP3B	Mx	.02	3
49	MP3C	X	51.168	1
50	MP3C	Z	-29.542	1
51	MP3C	Mx	-.008	1
52	MP3C	X	51.168	3
53	MP3C	Z	-29.542	3
54	MP3C	Mx	-.008	3
55	MP1A	X	31.094	3
56	MP1A	Z	-17.952	3
57	MP1A	Mx	.016	3
58	MP1B	X	31.094	3
59	MP1B	Z	-17.952	3
60	MP1B	Mx	-.016	3
61	MP1C	X	40.871	3
62	MP1C	Z	-23.597	3
63	MP1C	Mx	.004	3
64	MP2A	X	27.299	3
65	MP2A	Z	-15.761	3
66	MP2A	Mx	.014	3
67	MP2B	X	27.299	3
68	MP2B	Z	-15.761	3
69	MP2B	Mx	-.014	3
70	MP2C	X	40.719	3
71	MP2C	Z	-23.509	3
72	MP2C	Mx	.004	3
73	OVP	X	69.245	1
74	OVP	Z	-39.979	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	OVP	Mx	0	1
76	MP1A	X	74.294	1
77	MP1A	Z	-42.894	1
78	MP1A	Mx	-.056	1
79	MP1A	X	74.294	3
80	MP1A	Z	-42.894	3
81	MP1A	Mx	-.056	3
82	MP1B	X	74.294	1
83	MP1B	Z	-42.894	1
84	MP1B	Mx	.056	1
85	MP1B	X	74.294	3
86	MP1B	Z	-42.894	3
87	MP1B	Mx	.056	3
88	MP1C	X	81.59	1
89	MP1C	Z	-47.106	1
90	MP1C	Mx	-.012	1
91	MP1C	X	81.59	3
92	MP1C	Z	-47.106	3
93	MP1C	Mx	-.012	3
94	MP4A	X	74.294	1
95	MP4A	Z	-42.894	1
96	MP4A	Mx	-.056	1
97	MP4A	X	74.294	3
98	MP4A	Z	-42.894	3
99	MP4A	Mx	-.056	3
100	MP4B	X	74.294	1
101	MP4B	Z	-42.894	1
102	MP4B	Mx	.056	1
103	MP4B	X	74.294	3
104	MP4B	Z	-42.894	3
105	MP4B	Mx	.056	3
106	MP4C	X	81.59	1
107	MP4C	Z	-47.106	1
108	MP4C	Mx	-.012	1
109	MP4C	X	81.59	3
110	MP4C	Z	-47.106	3
111	MP4C	Mx	-.012	3
112	MP2A	X	12.812	5
113	MP2A	Z	-7.397	5
114	MP2A	Mx	.01	5
115	MP2A	X	12.812	6
116	MP2A	Z	-7.397	6
117	MP2A	Mx	.01	6
118	MP2B	X	12.812	5
119	MP2B	Z	-7.397	5
120	MP2B	Mx	-.015	5
121	MP2B	X	12.812	6
122	MP2B	Z	-7.397	6
123	MP2B	Mx	-.015	6
124	MP2A	X	12.812	5
125	MP2A	Z	-7.397	5
126	MP2A	Mx	.015	5
127	MP2A	X	12.812	6
128	MP2A	Z	-7.397	6
129	MP2A	Mx	.015	6
130	MP2B	X	12.812	5
131	MP2B	Z	-7.397	5







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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
107	MP4C	Z	0	1
108	MP4C	Mx	.024	1
109	MP4C	X	93.196	3
110	MP4C	Z	0	3
111	MP4C	Mx	.024	3
112	MP2A	X	14.805	5
113	MP2A	Z	0	5
114	MP2A	Mx	.015	5
115	MP2A	X	14.805	6
116	MP2A	Z	0	6
117	MP2A	Mx	.015	6
118	MP2B	X	14.772	5
119	MP2B	Z	0	5
120	MP2B	Mx	-.012	5
121	MP2B	X	14.772	6
122	MP2B	Z	0	6
123	MP2B	Mx	-.012	6
124	MP2A	X	14.805	5
125	MP2A	Z	0	5
126	MP2A	Mx	.015	5
127	MP2A	X	14.805	6
128	MP2A	Z	0	6
129	MP2A	Mx	.015	6
130	MP2B	X	14.772	5
131	MP2B	Z	0	5
132	MP2B	Mx	-.003	5
133	MP2B	X	14.772	6
134	MP2B	Z	0	6
135	MP2B	Mx	-.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	94.979	.92
2	MP2A	Z	54.836	.92
3	MP2A	Mx	-.035	.92
4	MP2A	X	94.979	4.92
5	MP2A	Z	54.836	4.92
6	MP2A	Mx	-.035	4.92
7	MP2B	X	97.869	.92
8	MP2B	Z	56.505	.92
9	MP2B	Mx	.113	.92
10	MP2B	X	97.869	4.92
11	MP2B	Z	56.505	4.92
12	MP2B	Mx	.113	4.92
13	MP2C	X	97.869	.92
14	MP2C	Z	56.505	.92
15	MP2C	Mx	.113	.92
16	MP2C	X	97.869	4.92
17	MP2C	Z	56.505	4.92
18	MP2C	Mx	.113	4.92
19	MP2A	X	94.979	.92
20	MP2A	Z	54.836	.92
21	MP2A	Mx	-.108	.92
22	MP2A	X	94.979	4.92
23	MP2A	Z	54.836	4.92
24	MP2A	Mx	-.108	4.92





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP2B	X	108.262	.92
26	MP2B	Z	62.505	.92
27	MP2B	Mx	.083	.92
28	MP2B	X	108.262	4.92
29	MP2B	Z	62.505	4.92
30	MP2B	Mx	.083	4.92
31	MP2C	X	97.869	.92
32	MP2C	Z	56.505	.92
33	MP2C	Mx	.017	.92
34	MP2C	X	97.869	4.92
35	MP2C	Z	56.505	4.92
36	MP2C	Mx	.017	4.92
37	MP3A	X	26.533	1
38	MP3A	Z	15.319	1
39	MP3A	Mx	-.02	1
40	MP3A	X	26.533	3
41	MP3A	Z	15.319	3
42	MP3A	Mx	-.02	3
43	MP3B	X	52.2	1
44	MP3B	Z	30.138	1
45	MP3B	Mx	0	1
46	MP3B	X	52.2	3
47	MP3B	Z	30.138	3
48	MP3B	Mx	0	3
49	MP3C	X	32.117	1
50	MP3C	Z	18.543	1
51	MP3C	Mx	.021	1
52	MP3C	X	32.117	3
53	MP3C	Z	18.543	3
54	MP3C	Mx	.021	3
55	MP1A	X	31.094	3
56	MP1A	Z	17.952	3
57	MP1A	Mx	.016	3
58	MP1B	X	41.281	3
59	MP1B	Z	23.834	3
60	MP1B	Mx	0	3
61	MP1C	X	33.31	3
62	MP1C	Z	19.232	3
63	MP1C	Mx	-.015	3
64	MP2A	X	27.299	3
65	MP2A	Z	15.761	3
66	MP2A	Mx	.014	3
67	MP2B	X	41.281	3
68	MP2B	Z	23.834	3
69	MP2B	Mx	0	3
70	MP2C	X	30.341	3
71	MP2C	Z	17.517	3
72	MP2C	Mx	-.013	3
73	OVP	X	69.245	1
74	OVP	Z	39.979	1
75	OVP	Mx	0	1
76	MP1A	X	74.294	1
77	MP1A	Z	42.894	1
78	MP1A	Mx	-.056	1
79	MP1A	X	74.294	3
80	MP1A	Z	42.894	3
81	MP1A	Mx	-.056	3



Company : Colliers Engineering & Design  
 Designer : ILR  
 Job Number : Project No. 10208046  
 Model Name : 5000243734-VZW\_MT\_LO\_H

Aug 1, 2023  
 4:42 PM  
 Checked By: DX

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
82	MP1B	X	81.896	1
83	MP1B	Z	47.283	1
84	MP1B	Mx	0	1
85	MP1B	X	81.896	3
86	MP1B	Z	47.283	3
87	MP1B	Mx	0	3
88	MP1C	X	75.948	1
89	MP1C	Z	43.849	1
90	MP1C	Mx	.05	1
91	MP1C	X	75.948	3
92	MP1C	Z	43.849	3
93	MP1C	Mx	.05	3
94	MP4A	X	74.294	1
95	MP4A	Z	42.894	1
96	MP4A	Mx	-.056	1
97	MP4A	X	74.294	3
98	MP4A	Z	42.894	3
99	MP4A	Mx	-.056	3
100	MP4B	X	81.896	1
101	MP4B	Z	47.283	1
102	MP4B	Mx	0	1
103	MP4B	X	81.896	3
104	MP4B	Z	47.283	3
105	MP4B	Mx	0	3
106	MP4C	X	75.948	1
107	MP4C	Z	43.849	1
108	MP4C	Mx	.05	1
109	MP4C	X	75.948	3
110	MP4C	Z	43.849	3
111	MP4C	Mx	.05	3
112	MP2A	X	12.812	5
113	MP2A	Z	7.397	5
114	MP2A	Mx	.015	5
115	MP2A	X	12.812	6
116	MP2A	Z	7.397	6
117	MP2A	Mx	.015	6
118	MP2B	X	12.784	5
119	MP2B	Z	7.381	5
120	MP2B	Mx	-.005	5
121	MP2B	X	12.784	6
122	MP2B	Z	7.381	6
123	MP2B	Mx	-.005	6
124	MP2A	X	12.812	5
125	MP2A	Z	7.397	5
126	MP2A	Mx	.01	5
127	MP2A	X	12.812	6
128	MP2A	Z	7.397	6
129	MP2A	Mx	.01	6
130	MP2B	X	12.784	5
131	MP2B	Z	7.381	5
132	MP2B	Mx	.005	5
133	MP2B	X	12.784	6
134	MP2B	Z	7.381	6
135	MP2B	Mx	.005	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
--	--------------	-----------	--------------------	----------------



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	59.949	.92
2	MP2A	Z	103.835	.92
3	MP2A	Mx	.024	.92
4	MP2A	X	59.949	4.92
5	MP2A	Z	103.835	4.92
6	MP2A	Mx	.024	4.92
7	MP2B	X	52.588	.92
8	MP2B	Z	91.086	.92
9	MP2B	Mx	.09	.92
10	MP2B	X	52.588	4.92
11	MP2B	Z	91.086	4.92
12	MP2B	Mx	.09	4.92
13	MP2C	X	52.588	.92
14	MP2C	Z	91.086	.92
15	MP2C	Mx	.09	.92
16	MP2C	X	52.588	4.92
17	MP2C	Z	91.086	4.92
18	MP2C	Mx	.09	4.92
19	MP2A	X	59.949	.92
20	MP2A	Z	103.835	.92
21	MP2A	Mx	-.114	.92
22	MP2A	X	59.949	4.92
23	MP2A	Z	103.835	4.92
24	MP2A	Mx	-.114	4.92
25	MP2B	X	59.949	.92
26	MP2B	Z	103.835	.92
27	MP2B	Mx	.024	.92
28	MP2B	X	59.949	4.92
29	MP2B	Z	103.835	4.92
30	MP2B	Mx	.024	4.92
31	MP2C	X	52.588	.92
32	MP2C	Z	91.086	.92
33	MP2C	Mx	.066	.92
34	MP2C	X	52.588	4.92
35	MP2C	Z	91.086	4.92
36	MP2C	Mx	.066	4.92
37	MP3A	X	25.198	1
38	MP3A	Z	43.645	1
39	MP3A	Mx	-.019	1
40	MP3A	X	25.198	3
41	MP3A	Z	43.645	3
42	MP3A	Mx	-.019	3
43	MP3B	X	25.198	1
44	MP3B	Z	43.645	1
45	MP3B	Mx	-.019	1
46	MP3B	X	25.198	3
47	MP3B	Z	43.645	3
48	MP3B	Mx	-.019	3
49	MP3C	X	10.975	1
50	MP3C	Z	19.009	1
51	MP3C	Mx	.016	1
52	MP3C	X	10.975	3
53	MP3C	Z	19.009	3
54	MP3C	Mx	.016	3
55	MP1A	X	21.873	3
56	MP1A	Z	37.885	3
57	MP1A	Mx	.011	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1B	X	21.873	3
59	MP1B	Z	37.885	3
60	MP1B	Mx	.011	3
61	MP1C	X	16.228	3
62	MP1C	Z	28.108	3
63	MP1C	Mx	-.016	3
64	MP2A	X	21.143	3
65	MP2A	Z	36.62	3
66	MP2A	Mx	.011	3
67	MP2B	X	21.143	3
68	MP2B	Z	36.62	3
69	MP2B	Mx	.011	3
70	MP2C	X	13.395	3
71	MP2C	Z	23.2	3
72	MP2C	Mx	-.013	3
73	OVP	X	45.822	1
74	OVP	Z	79.366	1
75	OVP	Mx	0	1
76	MP1A	X	45.82	1
77	MP1A	Z	79.362	1
78	MP1A	Mx	-.034	1
79	MP1A	X	45.82	3
80	MP1A	Z	79.362	3
81	MP1A	Mx	-.034	3
82	MP1B	X	45.82	1
83	MP1B	Z	79.362	1
84	MP1B	Mx	-.034	1
85	MP1B	X	45.82	3
86	MP1B	Z	79.362	3
87	MP1B	Mx	-.034	3
88	MP1C	X	41.607	1
89	MP1C	Z	72.065	1
90	MP1C	Mx	.061	1
91	MP1C	X	41.607	3
92	MP1C	Z	72.065	3
93	MP1C	Mx	.061	3
94	MP4A	X	45.82	1
95	MP4A	Z	79.362	1
96	MP4A	Mx	-.034	1
97	MP4A	X	45.82	3
98	MP4A	Z	79.362	3
99	MP4A	Mx	-.034	3
100	MP4B	X	45.82	1
101	MP4B	Z	79.362	1
102	MP4B	Mx	-.034	1
103	MP4B	X	45.82	3
104	MP4B	Z	79.362	3
105	MP4B	Mx	-.034	3
106	MP4C	X	41.607	1
107	MP4C	Z	72.065	1
108	MP4C	Mx	.061	1
109	MP4C	X	41.607	3
110	MP4C	Z	72.065	3
111	MP4C	Mx	.061	3
112	MP2A	X	7.386	5
113	MP2A	Z	12.793	5
114	MP2A	Mx	.012	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
115	MP2A	X	7.386	6
116	MP2A	Z	12.793	6
117	MP2A	Mx	.012	6
118	MP2B	X	7.386	5
119	MP2B	Z	12.793	5
120	MP2B	Mx	.003	5
121	MP2B	X	7.386	6
122	MP2B	Z	12.793	6
123	MP2B	Mx	.003	6
124	MP2A	X	7.386	5
125	MP2A	Z	12.793	5
126	MP2A	Mx	.003	5
127	MP2A	X	7.386	6
128	MP2A	Z	12.793	6
129	MP2A	Mx	.003	6
130	MP2B	X	7.386	5
131	MP2B	Z	12.793	5
132	MP2B	Mx	.012	5
133	MP2B	X	7.386	6
134	MP2B	Z	12.793	6
135	MP2B	Mx	.012	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.92
2	MP2A	Z	125.011	.92
3	MP2A	Mx	.083	.92
4	MP2A	X	0	4.92
5	MP2A	Z	125.011	4.92
6	MP2A	Mx	.083	4.92
7	MP2B	X	0	.92
8	MP2B	Z	106.952	.92
9	MP2B	Mx	.051	.92
10	MP2B	X	0	4.92
11	MP2B	Z	106.952	4.92
12	MP2B	Mx	.051	4.92
13	MP2C	X	0	.92
14	MP2C	Z	106.952	.92
15	MP2C	Mx	.051	.92
16	MP2C	X	0	4.92
17	MP2C	Z	106.952	4.92
18	MP2C	Mx	.051	4.92
19	MP2A	X	0	.92
20	MP2A	Z	125.011	.92
21	MP2A	Mx	-.083	.92
22	MP2A	X	0	4.92
23	MP2A	Z	125.011	4.92
24	MP2A	Mx	-.083	4.92
25	MP2B	X	0	.92
26	MP2B	Z	109.673	.92
27	MP2B	Mx	-.035	.92
28	MP2B	X	0	4.92
29	MP2B	Z	109.673	4.92
30	MP2B	Mx	-.035	4.92
31	MP2C	X	0	.92
32	MP2C	Z	106.952	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP2C	Mx	.1	.92
34	MP2C	X	0	4.92
35	MP2C	Z	106.952	4.92
36	MP2C	Mx	.1	4.92
37	MP3A	X	0	1
38	MP3A	Z	60.276	1
39	MP3A	Mx	0	1
40	MP3A	X	0	3
41	MP3A	Z	60.276	3
42	MP3A	Mx	0	3
43	MP3B	X	0	1
44	MP3B	Z	30.638	1
45	MP3B	Mx	-.02	1
46	MP3B	X	0	3
47	MP3B	Z	30.638	3
48	MP3B	Mx	-.02	3
49	MP3C	X	0	1
50	MP3C	Z	25.381	1
51	MP3C	Mx	.018	1
52	MP3C	X	0	3
53	MP3C	Z	25.381	3
54	MP3C	Mx	.018	3
55	MP1A	X	0	3
56	MP1A	Z	47.667	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	35.904	3
60	MP1B	Mx	.016	3
61	MP1C	X	0	3
62	MP1C	Z	33.818	3
63	MP1C	Mx	-.016	3
64	MP2A	X	0	3
65	MP2A	Z	47.667	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	31.522	3
69	MP2B	Mx	.014	3
70	MP2C	X	0	3
71	MP2C	Z	28.658	3
72	MP2C	Mx	-.013	3
73	OVP	X	0	1
74	OVP	Z	97.487	1
75	OVP	Mx	0	1
76	MP1A	X	0	1
77	MP1A	Z	94.565	1
78	MP1A	Mx	0	1
79	MP1A	X	0	3
80	MP1A	Z	94.565	3
81	MP1A	Mx	0	3
82	MP1B	X	0	1
83	MP1B	Z	85.787	1
84	MP1B	Mx	-.056	1
85	MP1B	X	0	3
86	MP1B	Z	85.787	3
87	MP1B	Mx	-.056	3
88	MP1C	X	0	1
89	MP1C	Z	84.23	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
90	MP1C	Mx	.059	1
91	MP1C	X	0	3
92	MP1C	Z	84.23	3
93	MP1C	Mx	.059	3
94	MP4A	X	0	1
95	MP4A	Z	94.565	1
96	MP4A	Mx	0	1
97	MP4A	X	0	3
98	MP4A	Z	94.565	3
99	MP4A	Mx	0	3
100	MP4B	X	0	1
101	MP4B	Z	85.787	1
102	MP4B	Mx	-.056	1
103	MP4B	X	0	3
104	MP4B	Z	85.787	3
105	MP4B	Mx	-.056	3
106	MP4C	X	0	1
107	MP4C	Z	84.23	1
108	MP4C	Mx	.059	1
109	MP4C	X	0	3
110	MP4C	Z	84.23	3
111	MP4C	Mx	.059	3
112	MP2A	X	0	5
113	MP2A	Z	14.761	5
114	MP2A	Mx	.005	5
115	MP2A	X	0	6
116	MP2A	Z	14.761	6
117	MP2A	Mx	.005	6
118	MP2B	X	0	5
119	MP2B	Z	14.794	5
120	MP2B	Mx	.01	5
121	MP2B	X	0	6
122	MP2B	Z	14.794	6
123	MP2B	Mx	.01	6
124	MP2A	X	0	5
125	MP2A	Z	14.761	5
126	MP2A	Mx	-.005	5
127	MP2A	X	0	6
128	MP2A	Z	14.761	6
129	MP2A	Mx	-.005	6
130	MP2B	X	0	5
131	MP2B	Z	14.794	5
132	MP2B	Mx	.015	5
133	MP2B	X	0	6
134	MP2B	Z	14.794	6
135	MP2B	Mx	.015	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-59.949	.92
2	MP2A	Z	103.835	.92
3	MP2A	Mx	.114	.92
4	MP2A	X	-59.949	4.92
5	MP2A	Z	103.835	4.92
6	MP2A	Mx	.114	4.92
7	MP2B	X	-58.281	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP2B	Z	100.945	.92
9	MP2B	Mx	-.003	.92
10	MP2B	X	-58.281	4.92
11	MP2B	Z	100.945	4.92
12	MP2B	Mx	-.003	4.92
13	MP2C	X	-58.281	.92
14	MP2C	Z	100.945	.92
15	MP2C	Mx	-.003	.92
16	MP2C	X	-58.281	4.92
17	MP2C	Z	100.945	4.92
18	MP2C	Mx	-.003	4.92
19	MP2A	X	-59.949	.92
20	MP2A	Z	103.835	.92
21	MP2A	Mx	-.024	.92
22	MP2A	X	-59.949	4.92
23	MP2A	Z	103.835	4.92
24	MP2A	Mx	-.024	4.92
25	MP2B	X	-52.28	.92
26	MP2B	Z	90.552	.92
27	MP2B	Mx	-.078	.92
28	MP2B	X	-52.28	4.92
29	MP2B	Z	90.552	4.92
30	MP2B	Mx	-.078	4.92
31	MP2C	X	-58.281	.92
32	MP2C	Z	100.945	.92
33	MP2C	Mx	.116	.92
34	MP2C	X	-58.281	4.92
35	MP2C	Z	100.945	4.92
36	MP2C	Mx	.116	4.92
37	MP3A	X	-25.198	1
38	MP3A	Z	43.645	1
39	MP3A	Mx	.019	1
40	MP3A	X	-25.198	3
41	MP3A	Z	43.645	3
42	MP3A	Mx	.019	3
43	MP3B	X	-10.379	1
44	MP3B	Z	17.977	1
45	MP3B	Mx	-.016	1
46	MP3B	X	-10.379	3
47	MP3B	Z	17.977	3
48	MP3B	Mx	-.016	3
49	MP3C	X	-21.974	1
50	MP3C	Z	38.06	1
51	MP3C	Mx	.021	1
52	MP3C	X	-21.974	3
53	MP3C	Z	38.06	3
54	MP3C	Mx	.021	3
55	MP1A	X	-21.873	3
56	MP1A	Z	37.885	3
57	MP1A	Mx	-.011	3
58	MP1B	X	-15.992	3
59	MP1B	Z	27.698	3
60	MP1B	Mx	.016	3
61	MP1C	X	-20.593	3
62	MP1C	Z	35.669	3
63	MP1C	Mx	-.013	3
64	MP2A	X	-21.143	3







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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
122	MP2B	Z	12.821	6
123	MP2B	Mx	.015	6
124	MP2A	X	-7.386	5
125	MP2A	Z	12.793	5
126	MP2A	Mx	-.012	5
127	MP2A	X	-7.386	6
128	MP2A	Z	12.793	6
129	MP2A	Mx	-.012	6
130	MP2B	X	-7.402	5
131	MP2B	Z	12.821	5
132	MP2B	Mx	.015	5
133	MP2B	X	-7.402	6
134	MP2B	Z	12.821	6
135	MP2B	Mx	.015	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-94.979	.92
2	MP2A	Z	54.836	.92
3	MP2A	Mx	.108	.92
4	MP2A	X	-94.979	4.92
5	MP2A	Z	54.836	4.92
6	MP2A	Mx	.108	4.92
7	MP2B	X	-107.728	.92
8	MP2B	Z	62.197	.92
9	MP2B	Mx	-.065	.92
10	MP2B	X	-107.728	4.92
11	MP2B	Z	62.197	4.92
12	MP2B	Mx	-.065	4.92
13	MP2C	X	-107.728	.92
14	MP2C	Z	62.197	.92
15	MP2C	Mx	-.065	.92
16	MP2C	X	-107.728	4.92
17	MP2C	Z	62.197	4.92
18	MP2C	Mx	-.065	4.92
19	MP2A	X	-94.979	.92
20	MP2A	Z	54.836	.92
21	MP2A	Mx	.035	.92
22	MP2A	X	-94.979	4.92
23	MP2A	Z	54.836	4.92
24	MP2A	Mx	.035	4.92
25	MP2B	X	-94.979	.92
26	MP2B	Z	54.836	.92
27	MP2B	Mx	-.108	.92
28	MP2B	X	-94.979	4.92
29	MP2B	Z	54.836	4.92
30	MP2B	Mx	-.108	4.92
31	MP2C	X	-107.728	.92
32	MP2C	Z	62.197	.92
33	MP2C	Mx	.098	.92
34	MP2C	X	-107.728	4.92
35	MP2C	Z	62.197	4.92
36	MP2C	Mx	.098	4.92
37	MP3A	X	-26.533	1
38	MP3A	Z	15.319	1
39	MP3A	Mx	.02	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP3A	X	-26.533	3
41	MP3A	Z	15.319	3
42	MP3A	Mx	.02	3
43	MP3B	X	-26.533	1
44	MP3B	Z	15.319	1
45	MP3B	Mx	-.02	1
46	MP3B	X	-26.533	3
47	MP3B	Z	15.319	3
48	MP3B	Mx	-.02	3
49	MP3C	X	-51.168	1
50	MP3C	Z	29.542	1
51	MP3C	Mx	.008	1
52	MP3C	X	-51.168	3
53	MP3C	Z	29.542	3
54	MP3C	Mx	.008	3
55	MP1A	X	-31.094	3
56	MP1A	Z	17.952	3
57	MP1A	Mx	-.016	3
58	MP1B	X	-31.094	3
59	MP1B	Z	17.952	3
60	MP1B	Mx	.016	3
61	MP1C	X	-40.871	3
62	MP1C	Z	23.597	3
63	MP1C	Mx	-.004	3
64	MP2A	X	-27.299	3
65	MP2A	Z	15.761	3
66	MP2A	Mx	-.014	3
67	MP2B	X	-27.299	3
68	MP2B	Z	15.761	3
69	MP2B	Mx	.014	3
70	MP2C	X	-40.719	3
71	MP2C	Z	23.509	3
72	MP2C	Mx	-.004	3
73	OVP	X	-69.245	1
74	OVP	Z	39.979	1
75	OVP	Mx	0	1
76	MP1A	X	-74.294	1
77	MP1A	Z	42.894	1
78	MP1A	Mx	.056	1
79	MP1A	X	-74.294	3
80	MP1A	Z	42.894	3
81	MP1A	Mx	.056	3
82	MP1B	X	-74.294	1
83	MP1B	Z	42.894	1
84	MP1B	Mx	-.056	1
85	MP1B	X	-74.294	3
86	MP1B	Z	42.894	3
87	MP1B	Mx	-.056	3
88	MP1C	X	-81.59	1
89	MP1C	Z	47.106	1
90	MP1C	Mx	.012	1
91	MP1C	X	-81.59	3
92	MP1C	Z	47.106	3
93	MP1C	Mx	.012	3
94	MP4A	X	-74.294	1
95	MP4A	Z	42.894	1
96	MP4A	Mx	.056	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
97	MP4A	X	-74.294	3
98	MP4A	Z	42.894	3
99	MP4A	Mx	.056	3
100	MP4B	X	-74.294	1
101	MP4B	Z	42.894	1
102	MP4B	Mx	-.056	1
103	MP4B	X	-74.294	3
104	MP4B	Z	42.894	3
105	MP4B	Mx	-.056	3
106	MP4C	X	-81.59	1
107	MP4C	Z	47.106	1
108	MP4C	Mx	.012	1
109	MP4C	X	-81.59	3
110	MP4C	Z	47.106	3
111	MP4C	Mx	.012	3
112	MP2A	X	-12.812	5
113	MP2A	Z	7.397	5
114	MP2A	Mx	-.01	5
115	MP2A	X	-12.812	6
116	MP2A	Z	7.397	6
117	MP2A	Mx	-.01	6
118	MP2B	X	-12.812	5
119	MP2B	Z	7.397	5
120	MP2B	Mx	.015	5
121	MP2B	X	-12.812	6
122	MP2B	Z	7.397	6
123	MP2B	Mx	.015	6
124	MP2A	X	-12.812	5
125	MP2A	Z	7.397	5
126	MP2A	Mx	-.015	5
127	MP2A	X	-12.812	6
128	MP2A	Z	7.397	6
129	MP2A	Mx	-.015	6
130	MP2B	X	-12.812	5
131	MP2B	Z	7.397	5
132	MP2B	Mx	.01	5
133	MP2B	X	-12.812	6
134	MP2B	Z	7.397	6
135	MP2B	Mx	.01	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-104.56	.92
2	MP2A	Z	0	.92
3	MP2A	Mx	.078	.92
4	MP2A	X	-104.56	4.92
5	MP2A	Z	0	4.92
6	MP2A	Mx	.078	4.92
7	MP2B	X	-122.618	.92
8	MP2B	Z	0	.92
9	MP2B	Mx	-.108	.92
10	MP2B	X	-122.618	4.92
11	MP2B	Z	0	4.92
12	MP2B	Mx	-.108	4.92
13	MP2C	X	-122.618	.92
14	MP2C	Z	0	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2C	Mx	-.108	.92
16	MP2C	X	-122.618	4.92
17	MP2C	Z	0	4.92
18	MP2C	Mx	-.108	4.92
19	MP2A	X	-104.56	.92
20	MP2A	Z	0	.92
21	MP2A	Mx	.078	.92
22	MP2A	X	-104.56	4.92
23	MP2A	Z	0	4.92
24	MP2A	Mx	.078	4.92
25	MP2B	X	-119.898	.92
26	MP2B	Z	0	.92
27	MP2B	Mx	-.114	.92
28	MP2B	X	-119.898	4.92
29	MP2B	Z	0	4.92
30	MP2B	Mx	-.114	4.92
31	MP2C	X	-122.618	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	.045	.92
34	MP2C	X	-122.618	4.92
35	MP2C	Z	0	4.92
36	MP2C	Mx	.045	4.92
37	MP3A	X	-20.758	1
38	MP3A	Z	0	1
39	MP3A	Mx	.016	1
40	MP3A	X	-20.758	3
41	MP3A	Z	0	3
42	MP3A	Mx	.016	3
43	MP3B	X	-50.396	1
44	MP3B	Z	0	1
45	MP3B	Mx	-.019	1
46	MP3B	X	-50.396	3
47	MP3B	Z	0	3
48	MP3B	Mx	-.019	3
49	MP3C	X	-55.653	1
50	MP3C	Z	0	1
51	MP3C	Mx	-.014	1
52	MP3C	X	-55.653	3
53	MP3C	Z	0	3
54	MP3C	Mx	-.014	3
55	MP1A	X	-31.983	3
56	MP1A	Z	0	3
57	MP1A	Mx	-.016	3
58	MP1B	X	-43.746	3
59	MP1B	Z	0	3
60	MP1B	Mx	.011	3
61	MP1C	X	-45.832	3
62	MP1C	Z	0	3
63	MP1C	Mx	.008	3
64	MP2A	X	-26.14	3
65	MP2A	Z	0	3
66	MP2A	Mx	-.013	3
67	MP2B	X	-42.285	3
68	MP2B	Z	0	3
69	MP2B	Mx	.011	3
70	MP2C	X	-45.149	3
71	MP2C	Z	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2C	Mx	.008	3
73	OVP	X	-74.115	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-82.861	1
77	MP1A	Z	0	1
78	MP1A	Mx	.062	1
79	MP1A	X	-82.861	3
80	MP1A	Z	0	3
81	MP1A	Mx	.062	3
82	MP1B	X	-91.639	1
83	MP1B	Z	0	1
84	MP1B	Mx	-.034	1
85	MP1B	X	-91.639	3
86	MP1B	Z	0	3
87	MP1B	Mx	-.034	3
88	MP1C	X	-93.196	1
89	MP1C	Z	0	1
90	MP1C	Mx	-.024	1
91	MP1C	X	-93.196	3
92	MP1C	Z	0	3
93	MP1C	Mx	-.024	3
94	MP4A	X	-82.861	1
95	MP4A	Z	0	1
96	MP4A	Mx	.062	1
97	MP4A	X	-82.861	3
98	MP4A	Z	0	3
99	MP4A	Mx	.062	3
100	MP4B	X	-91.639	1
101	MP4B	Z	0	1
102	MP4B	Mx	-.034	1
103	MP4B	X	-91.639	3
104	MP4B	Z	0	3
105	MP4B	Mx	-.034	3
106	MP4C	X	-93.196	1
107	MP4C	Z	0	1
108	MP4C	Mx	-.024	1
109	MP4C	X	-93.196	3
110	MP4C	Z	0	3
111	MP4C	Mx	-.024	3
112	MP2A	X	-14.805	5
113	MP2A	Z	0	5
114	MP2A	Mx	-.015	5
115	MP2A	X	-14.805	6
116	MP2A	Z	0	6
117	MP2A	Mx	-.015	6
118	MP2B	X	-14.772	5
119	MP2B	Z	0	5
120	MP2B	Mx	.012	5
121	MP2B	X	-14.772	6
122	MP2B	Z	0	6
123	MP2B	Mx	.012	6
124	MP2A	X	-14.805	5
125	MP2A	Z	0	5
126	MP2A	Mx	-.015	5
127	MP2A	X	-14.805	6
128	MP2A	Z	0	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
129	MP2A	Mx	-.015	6
130	MP2B	X	-14.772	5
131	MP2B	Z	0	5
132	MP2B	Mx	.003	5
133	MP2B	X	-14.772	6
134	MP2B	Z	0	6
135	MP2B	Mx	.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-94.979	.92
2	MP2A	Z	-54.836	.92
3	MP2A	Mx	.035	.92
4	MP2A	X	-94.979	4.92
5	MP2A	Z	-54.836	4.92
6	MP2A	Mx	.035	4.92
7	MP2B	X	-97.869	.92
8	MP2B	Z	-56.505	.92
9	MP2B	Mx	-.113	.92
10	MP2B	X	-97.869	4.92
11	MP2B	Z	-56.505	4.92
12	MP2B	Mx	-.113	4.92
13	MP2C	X	-97.869	.92
14	MP2C	Z	-56.505	.92
15	MP2C	Mx	-.113	.92
16	MP2C	X	-97.869	4.92
17	MP2C	Z	-56.505	4.92
18	MP2C	Mx	-.113	4.92
19	MP2A	X	-94.979	.92
20	MP2A	Z	-54.836	.92
21	MP2A	Mx	.108	.92
22	MP2A	X	-94.979	4.92
23	MP2A	Z	-54.836	4.92
24	MP2A	Mx	.108	4.92
25	MP2B	X	-108.262	.92
26	MP2B	Z	-62.505	.92
27	MP2B	Mx	-.083	.92
28	MP2B	X	-108.262	4.92
29	MP2B	Z	-62.505	4.92
30	MP2B	Mx	-.083	4.92
31	MP2C	X	-97.869	.92
32	MP2C	Z	-56.505	.92
33	MP2C	Mx	-.017	.92
34	MP2C	X	-97.869	4.92
35	MP2C	Z	-56.505	4.92
36	MP2C	Mx	-.017	4.92
37	MP3A	X	-26.533	1
38	MP3A	Z	-15.319	1
39	MP3A	Mx	.02	1
40	MP3A	X	-26.533	3
41	MP3A	Z	-15.319	3
42	MP3A	Mx	.02	3
43	MP3B	X	-52.2	1
44	MP3B	Z	-30.138	1
45	MP3B	Mx	0	1
46	MP3B	X	-52.2	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP3B	Z	-30.138	3
48	MP3B	Mx	0	3
49	MP3C	X	-32.117	1
50	MP3C	Z	-18.543	1
51	MP3C	Mx	-.021	1
52	MP3C	X	-32.117	3
53	MP3C	Z	-18.543	3
54	MP3C	Mx	-.021	3
55	MP1A	X	-31.094	3
56	MP1A	Z	-17.952	3
57	MP1A	Mx	-.016	3
58	MP1B	X	-41.281	3
59	MP1B	Z	-23.834	3
60	MP1B	Mx	0	3
61	MP1C	X	-33.31	3
62	MP1C	Z	-19.232	3
63	MP1C	Mx	.015	3
64	MP2A	X	-27.299	3
65	MP2A	Z	-15.761	3
66	MP2A	Mx	-.014	3
67	MP2B	X	-41.281	3
68	MP2B	Z	-23.834	3
69	MP2B	Mx	0	3
70	MP2C	X	-30.341	3
71	MP2C	Z	-17.517	3
72	MP2C	Mx	.013	3
73	OVP	X	-69.245	1
74	OVP	Z	-39.979	1
75	OVP	Mx	0	1
76	MP1A	X	-74.294	1
77	MP1A	Z	-42.894	1
78	MP1A	Mx	.056	1
79	MP1A	X	-74.294	3
80	MP1A	Z	-42.894	3
81	MP1A	Mx	.056	3
82	MP1B	X	-81.896	1
83	MP1B	Z	-47.283	1
84	MP1B	Mx	0	1
85	MP1B	X	-81.896	3
86	MP1B	Z	-47.283	3
87	MP1B	Mx	0	3
88	MP1C	X	-75.948	1
89	MP1C	Z	-43.849	1
90	MP1C	Mx	-.05	1
91	MP1C	X	-75.948	3
92	MP1C	Z	-43.849	3
93	MP1C	Mx	-.05	3
94	MP4A	X	-74.294	1
95	MP4A	Z	-42.894	1
96	MP4A	Mx	.056	1
97	MP4A	X	-74.294	3
98	MP4A	Z	-42.894	3
99	MP4A	Mx	.056	3
100	MP4B	X	-81.896	1
101	MP4B	Z	-47.283	1
102	MP4B	Mx	0	1
103	MP4B	X	-81.896	3





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
104	MP4B	Z	-47.283	3
105	MP4B	Mx	0	3
106	MP4C	X	-75.948	1
107	MP4C	Z	-43.849	1
108	MP4C	Mx	-.05	1
109	MP4C	X	-75.948	3
110	MP4C	Z	-43.849	3
111	MP4C	Mx	-.05	3
112	MP2A	X	-12.812	5
113	MP2A	Z	-7.397	5
114	MP2A	Mx	-.015	5
115	MP2A	X	-12.812	6
116	MP2A	Z	-7.397	6
117	MP2A	Mx	-.015	6
118	MP2B	X	-12.784	5
119	MP2B	Z	-7.381	5
120	MP2B	Mx	.005	5
121	MP2B	X	-12.784	6
122	MP2B	Z	-7.381	6
123	MP2B	Mx	.005	6
124	MP2A	X	-12.812	5
125	MP2A	Z	-7.397	5
126	MP2A	Mx	-.01	5
127	MP2A	X	-12.812	6
128	MP2A	Z	-7.397	6
129	MP2A	Mx	-.01	6
130	MP2B	X	-12.784	5
131	MP2B	Z	-7.381	5
132	MP2B	Mx	-.005	5
133	MP2B	X	-12.784	6
134	MP2B	Z	-7.381	6
135	MP2B	Mx	-.005	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-59.949	.92
2	MP2A	Z	-103.835	.92
3	MP2A	Mx	-.024	.92
4	MP2A	X	-59.949	4.92
5	MP2A	Z	-103.835	4.92
6	MP2A	Mx	-.024	4.92
7	MP2B	X	-52.588	.92
8	MP2B	Z	-91.086	.92
9	MP2B	Mx	-.09	.92
10	MP2B	X	-52.588	4.92
11	MP2B	Z	-91.086	4.92
12	MP2B	Mx	-.09	4.92
13	MP2C	X	-52.588	.92
14	MP2C	Z	-91.086	.92
15	MP2C	Mx	-.09	.92
16	MP2C	X	-52.588	4.92
17	MP2C	Z	-91.086	4.92
18	MP2C	Mx	-.09	4.92
19	MP2A	X	-59.949	.92
20	MP2A	Z	-103.835	.92
21	MP2A	Mx	.114	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
22	MP2A	X	-59.949	4.92
23	MP2A	Z	-103.835	4.92
24	MP2A	Mx	.114	4.92
25	MP2B	X	-59.949	.92
26	MP2B	Z	-103.835	.92
27	MP2B	Mx	-.024	.92
28	MP2B	X	-59.949	4.92
29	MP2B	Z	-103.835	4.92
30	MP2B	Mx	-.024	4.92
31	MP2C	X	-52.588	.92
32	MP2C	Z	-91.086	.92
33	MP2C	Mx	-.066	.92
34	MP2C	X	-52.588	4.92
35	MP2C	Z	-91.086	4.92
36	MP2C	Mx	-.066	4.92
37	MP3A	X	-25.198	1
38	MP3A	Z	-43.645	1
39	MP3A	Mx	.019	1
40	MP3A	X	-25.198	3
41	MP3A	Z	-43.645	3
42	MP3A	Mx	.019	3
43	MP3B	X	-25.198	1
44	MP3B	Z	-43.645	1
45	MP3B	Mx	.019	1
46	MP3B	X	-25.198	3
47	MP3B	Z	-43.645	3
48	MP3B	Mx	.019	3
49	MP3C	X	-10.975	1
50	MP3C	Z	-19.009	1
51	MP3C	Mx	-.016	1
52	MP3C	X	-10.975	3
53	MP3C	Z	-19.009	3
54	MP3C	Mx	-.016	3
55	MP1A	X	-21.873	3
56	MP1A	Z	-37.885	3
57	MP1A	Mx	-.011	3
58	MP1B	X	-21.873	3
59	MP1B	Z	-37.885	3
60	MP1B	Mx	-.011	3
61	MP1C	X	-16.228	3
62	MP1C	Z	-28.108	3
63	MP1C	Mx	.016	3
64	MP2A	X	-21.143	3
65	MP2A	Z	-36.62	3
66	MP2A	Mx	-.011	3
67	MP2B	X	-21.143	3
68	MP2B	Z	-36.62	3
69	MP2B	Mx	-.011	3
70	MP2C	X	-13.395	3
71	MP2C	Z	-23.2	3
72	MP2C	Mx	.013	3
73	OVP	X	-45.822	1
74	OVP	Z	-79.366	1
75	OVP	Mx	0	1
76	MP1A	X	-45.82	1
77	MP1A	Z	-79.362	1
78	MP1A	Mx	.034	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
79	MP1A	X	-45.82	3
80	MP1A	Z	-79.362	3
81	MP1A	Mx	.034	3
82	MP1B	X	-45.82	1
83	MP1B	Z	-79.362	1
84	MP1B	Mx	.034	1
85	MP1B	X	-45.82	3
86	MP1B	Z	-79.362	3
87	MP1B	Mx	.034	3
88	MP1C	X	-41.607	1
89	MP1C	Z	-72.065	1
90	MP1C	Mx	-.061	1
91	MP1C	X	-41.607	3
92	MP1C	Z	-72.065	3
93	MP1C	Mx	-.061	3
94	MP4A	X	-45.82	1
95	MP4A	Z	-79.362	1
96	MP4A	Mx	.034	1
97	MP4A	X	-45.82	3
98	MP4A	Z	-79.362	3
99	MP4A	Mx	.034	3
100	MP4B	X	-45.82	1
101	MP4B	Z	-79.362	1
102	MP4B	Mx	.034	1
103	MP4B	X	-45.82	3
104	MP4B	Z	-79.362	3
105	MP4B	Mx	.034	3
106	MP4C	X	-41.607	1
107	MP4C	Z	-72.065	1
108	MP4C	Mx	-.061	1
109	MP4C	X	-41.607	3
110	MP4C	Z	-72.065	3
111	MP4C	Mx	-.061	3
112	MP2A	X	-7.386	5
113	MP2A	Z	-12.793	5
114	MP2A	Mx	-.012	5
115	MP2A	X	-7.386	6
116	MP2A	Z	-12.793	6
117	MP2A	Mx	-.012	6
118	MP2B	X	-7.386	5
119	MP2B	Z	-12.793	5
120	MP2B	Mx	-.003	5
121	MP2B	X	-7.386	6
122	MP2B	Z	-12.793	6
123	MP2B	Mx	-.003	6
124	MP2A	X	-7.386	5
125	MP2A	Z	-12.793	5
126	MP2A	Mx	-.003	5
127	MP2A	X	-7.386	6
128	MP2A	Z	-12.793	6
129	MP2A	Mx	-.003	6
130	MP2B	X	-7.386	5
131	MP2B	Z	-12.793	5
132	MP2B	Mx	-.012	5
133	MP2B	X	-7.386	6
134	MP2B	Z	-12.793	6
135	MP2B	Mx	-.012	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.92
2	MP2A	Z	-26.08	.92
3	MP2A	Mx	-.017	.92
4	MP2A	X	0	4.92
5	MP2A	Z	-26.08	4.92
6	MP2A	Mx	-.017	4.92
7	MP2B	X	0	.92
8	MP2B	Z	-22.593	.92
9	MP2B	Mx	-.011	.92
10	MP2B	X	0	4.92
11	MP2B	Z	-22.593	4.92
12	MP2B	Mx	-.011	4.92
13	MP2C	X	0	.92
14	MP2C	Z	-22.593	.92
15	MP2C	Mx	-.011	.92
16	MP2C	X	0	4.92
17	MP2C	Z	-22.593	4.92
18	MP2C	Mx	-.011	4.92
19	MP2A	X	0	.92
20	MP2A	Z	-26.08	.92
21	MP2A	Mx	.017	.92
22	MP2A	X	0	4.92
23	MP2A	Z	-26.08	4.92
24	MP2A	Mx	.017	4.92
25	MP2B	X	0	.92
26	MP2B	Z	-23.118	.92
27	MP2B	Mx	.007	.92
28	MP2B	X	0	4.92
29	MP2B	Z	-23.118	4.92
30	MP2B	Mx	.007	4.92
31	MP2C	X	0	.92
32	MP2C	Z	-22.593	.92
33	MP2C	Mx	-.021	.92
34	MP2C	X	0	4.92
35	MP2C	Z	-22.593	4.92
36	MP2C	Mx	-.021	4.92
37	MP3A	X	0	1
38	MP3A	Z	-15.439	1
39	MP3A	Mx	0	1
40	MP3A	X	0	3
41	MP3A	Z	-15.439	3
42	MP3A	Mx	0	3
43	MP3B	X	0	1
44	MP3B	Z	-8.794	1
45	MP3B	Mx	.006	1
46	MP3B	X	0	3
47	MP3B	Z	-8.794	3
48	MP3B	Mx	.006	3
49	MP3C	X	0	1
50	MP3C	Z	-7.615	1
51	MP3C	Mx	-.005	1
52	MP3C	X	0	3
53	MP3C	Z	-7.615	3
54	MP3C	Mx	-.005	3
55	MP1A	X	0	3
56	MP1A	Z	-13.015	3
57	MP1A	Mx	0	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1B	X	0	3
59	MP1B	Z	-10.044	3
60	MP1B	Mx	-.004	3
61	MP1C	X	0	3
62	MP1C	Z	-9.517	3
63	MP1C	Mx	.004	3
64	MP2A	X	0	3
65	MP2A	Z	-13.015	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	-8.916	3
69	MP2B	Mx	-.004	3
70	MP2C	X	0	3
71	MP2C	Z	-8.189	3
72	MP2C	Mx	.004	3
73	OVP	X	0	1
74	OVP	Z	-25.051	1
75	OVP	Mx	0	1
76	MP1A	X	0	1
77	MP1A	Z	-19.817	1
78	MP1A	Mx	0	1
79	MP1A	X	0	3
80	MP1A	Z	-19.817	3
81	MP1A	Mx	0	3
82	MP1B	X	0	1
83	MP1B	Z	-18.115	1
84	MP1B	Mx	.012	1
85	MP1B	X	0	3
86	MP1B	Z	-18.115	3
87	MP1B	Mx	.012	3
88	MP1C	X	0	1
89	MP1C	Z	-17.813	1
90	MP1C	Mx	-.013	1
91	MP1C	X	0	3
92	MP1C	Z	-17.813	3
93	MP1C	Mx	-.013	3
94	MP4A	X	0	1
95	MP4A	Z	-19.817	1
96	MP4A	Mx	0	1
97	MP4A	X	0	3
98	MP4A	Z	-19.817	3
99	MP4A	Mx	0	3
100	MP4B	X	0	1
101	MP4B	Z	-18.115	1
102	MP4B	Mx	.012	1
103	MP4B	X	0	3
104	MP4B	Z	-18.115	3
105	MP4B	Mx	.012	3
106	MP4C	X	0	1
107	MP4C	Z	-17.813	1
108	MP4C	Mx	-.013	1
109	MP4C	X	0	3
110	MP4C	Z	-17.813	3
111	MP4C	Mx	-.013	3
112	MP2A	X	0	5
113	MP2A	Z	-1.349	5
114	MP2A	Mx	-.00045	5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
115	MP2A	X	0	6
116	MP2A	Z	-1.349	6
117	MP2A	Mx	-.00045	6
118	MP2B	X	0	5
119	MP2B	Z	-3.021	5
120	MP2B	Mx	-.002	5
121	MP2B	X	0	6
122	MP2B	Z	-3.021	6
123	MP2B	Mx	-.002	6
124	MP2A	X	0	5
125	MP2A	Z	-1.349	5
126	MP2A	Mx	.00045	5
127	MP2A	X	0	6
128	MP2A	Z	-1.349	6
129	MP2A	Mx	.00045	6
130	MP2B	X	0	5
131	MP2B	Z	-3.021	5
132	MP2B	Mx	-.003	5
133	MP2B	X	0	6
134	MP2B	Z	-3.021	6
135	MP2B	Mx	-.003	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	12.546	.92
2	MP2A	Z	-21.731	.92
3	MP2A	Mx	-.024	.92
4	MP2A	X	12.546	4.92
5	MP2A	Z	-21.731	4.92
6	MP2A	Mx	-.024	4.92
7	MP2B	X	12.224	.92
8	MP2B	Z	-21.173	.92
9	MP2B	Mx	.000699	.92
10	MP2B	X	12.224	4.92
11	MP2B	Z	-21.173	4.92
12	MP2B	Mx	.000699	4.92
13	MP2C	X	12.224	.92
14	MP2C	Z	-21.173	.92
15	MP2C	Mx	.000699	.92
16	MP2C	X	12.224	4.92
17	MP2C	Z	-21.173	4.92
18	MP2C	Mx	.000699	4.92
19	MP2A	X	12.546	.92
20	MP2A	Z	-21.731	.92
21	MP2A	Mx	.005	.92
22	MP2A	X	12.546	4.92
23	MP2A	Z	-21.731	4.92
24	MP2A	Mx	.005	4.92
25	MP2B	X	11.066	.92
26	MP2B	Z	-19.166	.92
27	MP2B	Mx	.017	.92
28	MP2B	X	11.066	4.92
29	MP2B	Z	-19.166	4.92
30	MP2B	Mx	.017	4.92
31	MP2C	X	12.224	.92
32	MP2C	Z	-21.173	.92



Company : Colliers Engineering & Design  
 Designer : ILR  
 Job Number : Project No. 10208046  
 Model Name : 5000243734-VZW\_MT\_LO\_H

Aug 1, 2023  
 4:42 PM  
 Checked By: DX

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP2C	Mx	-.024	.92
34	MP2C	X	12.224	4.92
35	MP2C	Z	-21.173	4.92
36	MP2C	Mx	-.024	4.92
37	MP3A	X	6.612	1
38	MP3A	Z	-11.452	1
39	MP3A	Mx	-.005	1
40	MP3A	X	6.612	3
41	MP3A	Z	-11.452	3
42	MP3A	Mx	-.005	3
43	MP3B	X	3.289	1
44	MP3B	Z	-5.697	1
45	MP3B	Mx	.005	1
46	MP3B	X	3.289	3
47	MP3B	Z	-5.697	3
48	MP3B	Mx	.005	3
49	MP3C	X	5.889	1
50	MP3C	Z	-10.2	1
51	MP3C	Mx	-.006	1
52	MP3C	X	5.889	3
53	MP3C	Z	-10.2	3
54	MP3C	Mx	-.006	3
55	MP1A	X	6.012	3
56	MP1A	Z	-10.414	3
57	MP1A	Mx	.003	3
58	MP1B	X	4.527	3
59	MP1B	Z	-7.841	3
60	MP1B	Mx	-.005	3
61	MP1C	X	5.689	3
62	MP1C	Z	-9.854	3
63	MP1C	Mx	.004	3
64	MP2A	X	5.824	3
65	MP2A	Z	-10.088	3
66	MP2A	Mx	.003	3
67	MP2B	X	3.775	3
68	MP2B	Z	-6.538	3
69	MP2B	Mx	-.004	3
70	MP2C	X	5.378	3
71	MP2C	Z	-9.315	3
72	MP2C	Mx	.003	3
73	OVP	X	11.536	1
74	OVP	Z	-19.981	1
75	OVP	Mx	0	1
76	MP1A	X	9.625	1
77	MP1A	Z	-16.671	1
78	MP1A	Mx	-.007	1
79	MP1A	X	9.625	3
80	MP1A	Z	-16.671	3
81	MP1A	Mx	-.007	3
82	MP1B	X	8.774	1
83	MP1B	Z	-15.196	1
84	MP1B	Mx	.013	1
85	MP1B	X	8.774	3
86	MP1B	Z	-15.196	3
87	MP1B	Mx	.013	3
88	MP1C	X	9.44	1
89	MP1C	Z	-16.35	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
90	MP1C	Mx	-0.09	1
91	MP1C	X	9.44	3
92	MP1C	Z	-16.35	3
93	MP1C	Mx	-0.09	3
94	MP4A	X	9.625	1
95	MP4A	Z	-16.671	1
96	MP4A	Mx	-0.07	1
97	MP4A	X	9.625	3
98	MP4A	Z	-16.671	3
99	MP4A	Mx	-0.07	3
100	MP4B	X	8.774	1
101	MP4B	Z	-15.196	1
102	MP4B	Mx	.013	1
103	MP4B	X	8.774	3
104	MP4B	Z	-15.196	3
105	MP4B	Mx	.013	3
106	MP4C	X	9.44	1
107	MP4C	Z	-16.35	1
108	MP4C	Mx	-0.09	1
109	MP4C	X	9.44	3
110	MP4C	Z	-16.35	3
111	MP4C	Mx	-0.09	3
112	MP2A	X	.953	5
113	MP2A	Z	-1.651	5
114	MP2A	Mx	.000403	5
115	MP2A	X	.953	6
116	MP2A	Z	-1.651	6
117	MP2A	Mx	.000403	6
118	MP2B	X	1.789	5
119	MP2B	Z	-3.099	5
120	MP2B	Mx	-0.04	5
121	MP2B	X	1.789	6
122	MP2B	Z	-3.099	6
123	MP2B	Mx	-0.04	6
124	MP2A	X	.953	5
125	MP2A	Z	-1.651	5
126	MP2A	Mx	.002	5
127	MP2A	X	.953	6
128	MP2A	Z	-1.651	6
129	MP2A	Mx	.002	6
130	MP2B	X	1.789	5
131	MP2B	Z	-3.099	5
132	MP2B	Mx	-0.04	5
133	MP2B	X	1.789	6
134	MP2B	Z	-3.099	6
135	MP2B	Mx	-0.04	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	20.021	.92
2	MP2A	Z	-11.559	.92
3	MP2A	Mx	-0.23	.92
4	MP2A	X	20.021	4.92
5	MP2A	Z	-11.559	4.92
6	MP2A	Mx	-0.23	4.92
7	MP2B	X	22.483	.92





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP2B	Z	-12.98	.92
9	MP2B	Mx	.014	.92
10	MP2B	X	22.483	4.92
11	MP2B	Z	-12.98	4.92
12	MP2B	Mx	.014	4.92
13	MP2C	X	22.483	.92
14	MP2C	Z	-12.98	.92
15	MP2C	Mx	.014	.92
16	MP2C	X	22.483	4.92
17	MP2C	Z	-12.98	4.92
18	MP2C	Mx	.014	4.92
19	MP2A	X	20.021	.92
20	MP2A	Z	-11.559	.92
21	MP2A	Mx	-.007	.92
22	MP2A	X	20.021	4.92
23	MP2A	Z	-11.559	4.92
24	MP2A	Mx	-.007	4.92
25	MP2B	X	20.021	.92
26	MP2B	Z	-11.559	.92
27	MP2B	Mx	.023	.92
28	MP2B	X	20.021	4.92
29	MP2B	Z	-11.559	4.92
30	MP2B	Mx	.023	4.92
31	MP2C	X	22.483	.92
32	MP2C	Z	-12.98	.92
33	MP2C	Mx	-.02	.92
34	MP2C	X	22.483	4.92
35	MP2C	Z	-12.98	4.92
36	MP2C	Mx	-.02	4.92
37	MP3A	X	7.615	1
38	MP3A	Z	-4.397	1
39	MP3A	Mx	-.006	1
40	MP3A	X	7.615	3
41	MP3A	Z	-4.397	3
42	MP3A	Mx	-.006	3
43	MP3B	X	7.615	1
44	MP3B	Z	-4.397	1
45	MP3B	Mx	.006	1
46	MP3B	X	7.615	3
47	MP3B	Z	-4.397	3
48	MP3B	Mx	.006	3
49	MP3C	X	13.139	1
50	MP3C	Z	-7.586	1
51	MP3C	Mx	-.002	1
52	MP3C	X	13.139	3
53	MP3C	Z	-7.586	3
54	MP3C	Mx	-.002	3
55	MP1A	X	8.699	3
56	MP1A	Z	-5.022	3
57	MP1A	Mx	.004	3
58	MP1B	X	8.699	3
59	MP1B	Z	-5.022	3
60	MP1B	Mx	-.004	3
61	MP1C	X	11.168	3
62	MP1C	Z	-6.448	3
63	MP1C	Mx	.001	3
64	MP2A	X	7.721	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
65	MP2A	Z	-4.458	3
66	MP2A	Mx	.004	3
67	MP2B	X	7.721	3
68	MP2B	Z	-4.458	3
69	MP2B	Mx	-.004	3
70	MP2C	X	11.128	3
71	MP2C	Z	-6.425	3
72	MP2C	Mx	.001	3
73	OVP	X	16.555	1
74	OVP	Z	-9.558	1
75	OVP	Mx	0	1
76	MP1A	X	15.688	1
77	MP1A	Z	-9.057	1
78	MP1A	Mx	-.012	1
79	MP1A	X	15.688	3
80	MP1A	Z	-9.057	3
81	MP1A	Mx	-.012	3
82	MP1B	X	15.688	1
83	MP1B	Z	-9.057	1
84	MP1B	Mx	.012	1
85	MP1B	X	15.688	3
86	MP1B	Z	-9.057	3
87	MP1B	Mx	.012	3
88	MP1C	X	17.103	1
89	MP1C	Z	-9.874	1
90	MP1C	Mx	-.003	1
91	MP1C	X	17.103	3
92	MP1C	Z	-9.874	3
93	MP1C	Mx	-.003	3
94	MP4A	X	15.688	1
95	MP4A	Z	-9.057	1
96	MP4A	Mx	-.012	1
97	MP4A	X	15.688	3
98	MP4A	Z	-9.057	3
99	MP4A	Mx	-.012	3
100	MP4B	X	15.688	1
101	MP4B	Z	-9.057	1
102	MP4B	Mx	.012	1
103	MP4B	X	15.688	3
104	MP4B	Z	-9.057	3
105	MP4B	Mx	.012	3
106	MP4C	X	17.103	1
107	MP4C	Z	-9.874	1
108	MP4C	Mx	-.003	1
109	MP4C	X	17.103	3
110	MP4C	Z	-9.874	3
111	MP4C	Mx	-.003	3
112	MP2A	X	2.616	5
113	MP2A	Z	-1.51	5
114	MP2A	Mx	.002	5
115	MP2A	X	2.616	6
116	MP2A	Z	-1.51	6
117	MP2A	Mx	.002	6
118	MP2B	X	2.616	5
119	MP2B	Z	-1.51	5
120	MP2B	Mx	-.003	5
121	MP2B	X	2.616	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
122	MP2B	Z	-1.51	6
123	MP2B	Mx	-0.03	6
124	MP2A	X	2.616	5
125	MP2A	Z	-1.51	5
126	MP2A	Mx	.003	5
127	MP2A	X	2.616	6
128	MP2A	Z	-1.51	6
129	MP2A	Mx	.003	6
130	MP2B	X	2.616	5
131	MP2B	Z	-1.51	5
132	MP2B	Mx	-0.02	5
133	MP2B	X	2.616	6
134	MP2B	Z	-1.51	6
135	MP2B	Mx	-0.02	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	22.131	.92
2	MP2A	Z	0	.92
3	MP2A	Mx	-0.17	.92
4	MP2A	X	22.131	4.92
5	MP2A	Z	0	4.92
6	MP2A	Mx	-0.17	4.92
7	MP2B	X	25.618	.92
8	MP2B	Z	0	.92
9	MP2B	Mx	.023	.92
10	MP2B	X	25.618	4.92
11	MP2B	Z	0	4.92
12	MP2B	Mx	.023	4.92
13	MP2C	X	25.618	.92
14	MP2C	Z	0	.92
15	MP2C	Mx	.023	.92
16	MP2C	X	25.618	4.92
17	MP2C	Z	0	4.92
18	MP2C	Mx	.023	4.92
19	MP2A	X	22.131	.92
20	MP2A	Z	0	.92
21	MP2A	Mx	-0.17	.92
22	MP2A	X	22.131	4.92
23	MP2A	Z	0	4.92
24	MP2A	Mx	-0.17	4.92
25	MP2B	X	25.093	.92
26	MP2B	Z	0	.92
27	MP2B	Mx	.024	.92
28	MP2B	X	25.093	4.92
29	MP2B	Z	0	4.92
30	MP2B	Mx	.024	4.92
31	MP2C	X	25.618	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	-0.09	.92
34	MP2C	X	25.618	4.92
35	MP2C	Z	0	4.92
36	MP2C	Mx	-0.09	4.92
37	MP3A	X	6.578	1
38	MP3A	Z	0	1
39	MP3A	Mx	-0.05	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP3A	X	6.578	3
41	MP3A	Z	0	3
42	MP3A	Mx	-.005	3
43	MP3B	X	13.224	1
44	MP3B	Z	0	1
45	MP3B	Mx	.005	1
46	MP3B	X	13.224	3
47	MP3B	Z	0	3
48	MP3B	Mx	.005	3
49	MP3C	X	14.403	1
50	MP3C	Z	0	1
51	MP3C	Mx	.004	1
52	MP3C	X	14.403	3
53	MP3C	Z	0	3
54	MP3C	Mx	.004	3
55	MP1A	X	9.054	3
56	MP1A	Z	0	3
57	MP1A	Mx	.005	3
58	MP1B	X	12.025	3
59	MP1B	Z	0	3
60	MP1B	Mx	-.003	3
61	MP1C	X	12.551	3
62	MP1C	Z	0	3
63	MP1C	Mx	-.002	3
64	MP2A	X	7.549	3
65	MP2A	Z	0	3
66	MP2A	Mx	.004	3
67	MP2B	X	11.648	3
68	MP2B	Z	0	3
69	MP2B	Mx	-.003	3
70	MP2C	X	12.375	3
71	MP2C	Z	0	3
72	MP2C	Mx	-.002	3
73	OVP	X	17.137	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	17.547	1
77	MP1A	Z	0	1
78	MP1A	Mx	-.013	1
79	MP1A	X	17.547	3
80	MP1A	Z	0	3
81	MP1A	Mx	-.013	3
82	MP1B	X	19.25	1
83	MP1B	Z	0	1
84	MP1B	Mx	.007	1
85	MP1B	X	19.25	3
86	MP1B	Z	0	3
87	MP1B	Mx	.007	3
88	MP1C	X	19.552	1
89	MP1C	Z	0	1
90	MP1C	Mx	.005	1
91	MP1C	X	19.552	3
92	MP1C	Z	0	3
93	MP1C	Mx	.005	3
94	MP4A	X	17.547	1
95	MP4A	Z	0	1
96	MP4A	Mx	-.013	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
97	MP4A	X	17.547	3
98	MP4A	Z	0	3
99	MP4A	Mx	-.013	3
100	MP4B	X	19.25	1
101	MP4B	Z	0	1
102	MP4B	Mx	.007	1
103	MP4B	X	19.25	3
104	MP4B	Z	0	3
105	MP4B	Mx	.007	3
106	MP4C	X	19.552	1
107	MP4C	Z	0	1
108	MP4C	Mx	.005	1
109	MP4C	X	19.552	3
110	MP4C	Z	0	3
111	MP4C	Mx	.005	3
112	MP2A	X	3.578	5
113	MP2A	Z	0	5
114	MP2A	Mx	.004	5
115	MP2A	X	3.578	6
116	MP2A	Z	0	6
117	MP2A	Mx	.004	6
118	MP2B	X	1.906	5
119	MP2B	Z	0	5
120	MP2B	Mx	-.002	5
121	MP2B	X	1.906	6
122	MP2B	Z	0	6
123	MP2B	Mx	-.002	6
124	MP2A	X	3.578	5
125	MP2A	Z	0	5
126	MP2A	Mx	.004	5
127	MP2A	X	3.578	6
128	MP2A	Z	0	6
129	MP2A	Mx	.004	6
130	MP2B	X	1.906	5
131	MP2B	Z	0	5
132	MP2B	Mx	-.000403	5
133	MP2B	X	1.906	6
134	MP2B	Z	0	6
135	MP2B	Mx	-.000403	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	20.021	.92
2	MP2A	Z	11.559	.92
3	MP2A	Mx	-.007	.92
4	MP2A	X	20.021	4.92
5	MP2A	Z	11.559	4.92
6	MP2A	Mx	-.007	4.92
7	MP2B	X	20.579	.92
8	MP2B	Z	11.881	.92
9	MP2B	Mx	.024	.92
10	MP2B	X	20.579	4.92
11	MP2B	Z	11.881	4.92
12	MP2B	Mx	.024	4.92
13	MP2C	X	20.579	.92
14	MP2C	Z	11.881	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2C	Mx	.024	.92
16	MP2C	X	20.579	4.92
17	MP2C	Z	11.881	4.92
18	MP2C	Mx	.024	4.92
19	MP2A	X	20.021	.92
20	MP2A	Z	11.559	.92
21	MP2A	Mx	-.023	.92
22	MP2A	X	20.021	4.92
23	MP2A	Z	11.559	4.92
24	MP2A	Mx	-.023	4.92
25	MP2B	X	22.586	.92
26	MP2B	Z	13.04	.92
27	MP2B	Mx	.017	.92
28	MP2B	X	22.586	4.92
29	MP2B	Z	13.04	4.92
30	MP2B	Mx	.017	4.92
31	MP2C	X	20.579	.92
32	MP2C	Z	11.881	.92
33	MP2C	Mx	.003	.92
34	MP2C	X	20.579	4.92
35	MP2C	Z	11.881	4.92
36	MP2C	Mx	.003	4.92
37	MP3A	X	7.615	1
38	MP3A	Z	4.397	1
39	MP3A	Mx	-.006	1
40	MP3A	X	7.615	3
41	MP3A	Z	4.397	3
42	MP3A	Mx	-.006	3
43	MP3B	X	13.371	1
44	MP3B	Z	7.72	1
45	MP3B	Mx	0	1
46	MP3B	X	13.371	3
47	MP3B	Z	7.72	3
48	MP3B	Mx	0	3
49	MP3C	X	8.868	1
50	MP3C	Z	5.12	1
51	MP3C	Mx	.006	1
52	MP3C	X	8.868	3
53	MP3C	Z	5.12	3
54	MP3C	Mx	.006	3
55	MP1A	X	8.699	3
56	MP1A	Z	5.022	3
57	MP1A	Mx	.004	3
58	MP1B	X	11.271	3
59	MP1B	Z	6.507	3
60	MP1B	Mx	0	3
61	MP1C	X	9.258	3
62	MP1C	Z	5.345	3
63	MP1C	Mx	-.004	3
64	MP2A	X	7.721	3
65	MP2A	Z	4.458	3
66	MP2A	Mx	.004	3
67	MP2B	X	11.271	3
68	MP2B	Z	6.507	3
69	MP2B	Mx	0	3
70	MP2C	X	8.493	3
71	MP2C	Z	4.904	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2C	Mx	-.004	3
73	OVP	X	16.555	1
74	OVP	Z	9.558	1
75	OVP	Mx	0	1
76	MP1A	X	15.688	1
77	MP1A	Z	9.057	1
78	MP1A	Mx	-.012	1
79	MP1A	X	15.688	3
80	MP1A	Z	9.057	3
81	MP1A	Mx	-.012	3
82	MP1B	X	17.162	1
83	MP1B	Z	9.909	1
84	MP1B	Mx	0	1
85	MP1B	X	17.162	3
86	MP1B	Z	9.909	3
87	MP1B	Mx	0	3
88	MP1C	X	16.009	1
89	MP1C	Z	9.243	1
90	MP1C	Mx	.011	1
91	MP1C	X	16.009	3
92	MP1C	Z	9.243	3
93	MP1C	Mx	.011	3
94	MP4A	X	15.688	1
95	MP4A	Z	9.057	1
96	MP4A	Mx	-.012	1
97	MP4A	X	15.688	3
98	MP4A	Z	9.057	3
99	MP4A	Mx	-.012	3
100	MP4B	X	17.162	1
101	MP4B	Z	9.909	1
102	MP4B	Mx	0	1
103	MP4B	X	17.162	3
104	MP4B	Z	9.909	3
105	MP4B	Mx	0	3
106	MP4C	X	16.009	1
107	MP4C	Z	9.243	1
108	MP4C	Mx	.011	1
109	MP4C	X	16.009	3
110	MP4C	Z	9.243	3
111	MP4C	Mx	.011	3
112	MP2A	X	2.616	5
113	MP2A	Z	1.51	5
114	MP2A	Mx	.003	5
115	MP2A	X	2.616	6
116	MP2A	Z	1.51	6
117	MP2A	Mx	.003	6
118	MP2B	X	1.168	5
119	MP2B	Z	.674	5
120	MP2B	Mx	-.00045	5
121	MP2B	X	1.168	6
122	MP2B	Z	.674	6
123	MP2B	Mx	-.00045	6
124	MP2A	X	2.616	5
125	MP2A	Z	1.51	5
126	MP2A	Mx	.002	5
127	MP2A	X	2.616	6
128	MP2A	Z	1.51	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
129	MP2A	Mx	.002	6
130	MP2B	X	1.168	5
131	MP2B	Z	.674	5
132	MP2B	Mx	.000449	5
133	MP2B	X	1.168	6
134	MP2B	Z	.674	6
135	MP2B	Mx	.000449	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	12.546	.92
2	MP2A	Z	21.731	.92
3	MP2A	Mx	.005	.92
4	MP2A	X	12.546	4.92
5	MP2A	Z	21.731	4.92
6	MP2A	Mx	.005	4.92
7	MP2B	X	11.125	.92
8	MP2B	Z	19.269	.92
9	MP2B	Mx	.019	.92
10	MP2B	X	11.125	4.92
11	MP2B	Z	19.269	4.92
12	MP2B	Mx	.019	4.92
13	MP2C	X	11.125	.92
14	MP2C	Z	19.269	.92
15	MP2C	Mx	.019	.92
16	MP2C	X	11.125	4.92
17	MP2C	Z	19.269	4.92
18	MP2C	Mx	.019	4.92
19	MP2A	X	12.546	.92
20	MP2A	Z	21.731	.92
21	MP2A	Mx	-.024	.92
22	MP2A	X	12.546	4.92
23	MP2A	Z	21.731	4.92
24	MP2A	Mx	-.024	4.92
25	MP2B	X	12.546	.92
26	MP2B	Z	21.731	.92
27	MP2B	Mx	.005	.92
28	MP2B	X	12.546	4.92
29	MP2B	Z	21.731	4.92
30	MP2B	Mx	.005	4.92
31	MP2C	X	11.125	.92
32	MP2C	Z	19.269	.92
33	MP2C	Mx	.014	.92
34	MP2C	X	11.125	4.92
35	MP2C	Z	19.269	4.92
36	MP2C	Mx	.014	4.92
37	MP3A	X	6.612	1
38	MP3A	Z	11.452	1
39	MP3A	Mx	-.005	1
40	MP3A	X	6.612	3
41	MP3A	Z	11.452	3
42	MP3A	Mx	-.005	3
43	MP3B	X	6.612	1
44	MP3B	Z	11.452	1
45	MP3B	Mx	-.005	1
46	MP3B	X	6.612	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP3B	Z	11.452	3
48	MP3B	Mx	-.005	3
49	MP3C	X	3.423	1
50	MP3C	Z	5.928	1
51	MP3C	Mx	.005	1
52	MP3C	X	3.423	3
53	MP3C	Z	5.928	3
54	MP3C	Mx	.005	3
55	MP1A	X	6.012	3
56	MP1A	Z	10.414	3
57	MP1A	Mx	.003	3
58	MP1B	X	6.012	3
59	MP1B	Z	10.414	3
60	MP1B	Mx	.003	3
61	MP1C	X	4.587	3
62	MP1C	Z	7.945	3
63	MP1C	Mx	-.005	3
64	MP2A	X	5.824	3
65	MP2A	Z	10.088	3
66	MP2A	Mx	.003	3
67	MP2B	X	5.824	3
68	MP2B	Z	10.088	3
69	MP2B	Mx	.003	3
70	MP2C	X	3.857	3
71	MP2C	Z	6.681	3
72	MP2C	Mx	-.004	3
73	OVP	X	11.536	1
74	OVP	Z	19.981	1
75	OVP	Mx	0	1
76	MP1A	X	9.625	1
77	MP1A	Z	16.671	1
78	MP1A	Mx	-.007	1
79	MP1A	X	9.625	3
80	MP1A	Z	16.671	3
81	MP1A	Mx	-.007	3
82	MP1B	X	9.625	1
83	MP1B	Z	16.671	1
84	MP1B	Mx	-.007	1
85	MP1B	X	9.625	3
86	MP1B	Z	16.671	3
87	MP1B	Mx	-.007	3
88	MP1C	X	8.808	1
89	MP1C	Z	15.256	1
90	MP1C	Mx	.013	1
91	MP1C	X	8.808	3
92	MP1C	Z	15.256	3
93	MP1C	Mx	.013	3
94	MP4A	X	9.625	1
95	MP4A	Z	16.671	1
96	MP4A	Mx	-.007	1
97	MP4A	X	9.625	3
98	MP4A	Z	16.671	3
99	MP4A	Mx	-.007	3
100	MP4B	X	9.625	1
101	MP4B	Z	16.671	1
102	MP4B	Mx	-.007	1
103	MP4B	X	9.625	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
104	MP4B	Z	16.671	3
105	MP4B	Mx	-.007	3
106	MP4C	X	8.808	1
107	MP4C	Z	15.256	1
108	MP4C	Mx	.013	1
109	MP4C	X	8.808	3
110	MP4C	Z	15.256	3
111	MP4C	Mx	.013	3
112	MP2A	X	.953	5
113	MP2A	Z	1.651	5
114	MP2A	Mx	.002	5
115	MP2A	X	.953	6
116	MP2A	Z	1.651	6
117	MP2A	Mx	.002	6
118	MP2B	X	.953	5
119	MP2B	Z	1.651	5
120	MP2B	Mx	.000403	5
121	MP2B	X	.953	6
122	MP2B	Z	1.651	6
123	MP2B	Mx	.000403	6
124	MP2A	X	.953	5
125	MP2A	Z	1.651	5
126	MP2A	Mx	.000403	5
127	MP2A	X	.953	6
128	MP2A	Z	1.651	6
129	MP2A	Mx	.000403	6
130	MP2B	X	.953	5
131	MP2B	Z	1.651	5
132	MP2B	Mx	.002	5
133	MP2B	X	.953	6
134	MP2B	Z	1.651	6
135	MP2B	Mx	.002	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	0	.92
2	MP2A	Z	26.08	.92
3	MP2A	Mx	.017	.92
4	MP2A	X	0	4.92
5	MP2A	Z	26.08	4.92
6	MP2A	Mx	.017	4.92
7	MP2B	X	0	.92
8	MP2B	Z	22.593	.92
9	MP2B	Mx	.011	.92
10	MP2B	X	0	4.92
11	MP2B	Z	22.593	4.92
12	MP2B	Mx	.011	4.92
13	MP2C	X	0	.92
14	MP2C	Z	22.593	.92
15	MP2C	Mx	.011	.92
16	MP2C	X	0	4.92
17	MP2C	Z	22.593	4.92
18	MP2C	Mx	.011	4.92
19	MP2A	X	0	.92
20	MP2A	Z	26.08	.92
21	MP2A	Mx	-.017	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
22	MP2A	X	0	4.92
23	MP2A	Z	26.08	4.92
24	MP2A	Mx	-.017	4.92
25	MP2B	X	0	.92
26	MP2B	Z	23.118	.92
27	MP2B	Mx	-.007	.92
28	MP2B	X	0	4.92
29	MP2B	Z	23.118	4.92
30	MP2B	Mx	-.007	4.92
31	MP2C	X	0	.92
32	MP2C	Z	22.593	.92
33	MP2C	Mx	.021	.92
34	MP2C	X	0	4.92
35	MP2C	Z	22.593	4.92
36	MP2C	Mx	.021	4.92
37	MP3A	X	0	1
38	MP3A	Z	15.439	1
39	MP3A	Mx	0	1
40	MP3A	X	0	3
41	MP3A	Z	15.439	3
42	MP3A	Mx	0	3
43	MP3B	X	0	1
44	MP3B	Z	8.794	1
45	MP3B	Mx	-.006	1
46	MP3B	X	0	3
47	MP3B	Z	8.794	3
48	MP3B	Mx	-.006	3
49	MP3C	X	0	1
50	MP3C	Z	7.615	1
51	MP3C	Mx	.005	1
52	MP3C	X	0	3
53	MP3C	Z	7.615	3
54	MP3C	Mx	.005	3
55	MP1A	X	0	3
56	MP1A	Z	13.015	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	10.044	3
60	MP1B	Mx	.004	3
61	MP1C	X	0	3
62	MP1C	Z	9.517	3
63	MP1C	Mx	-.004	3
64	MP2A	X	0	3
65	MP2A	Z	13.015	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	8.916	3
69	MP2B	Mx	.004	3
70	MP2C	X	0	3
71	MP2C	Z	8.189	3
72	MP2C	Mx	-.004	3
73	OVP	X	0	1
74	OVP	Z	25.051	1
75	OVP	Mx	0	1
76	MP1A	X	0	1
77	MP1A	Z	19.817	1
78	MP1A	Mx	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
79	MP1A	X	0	3
80	MP1A	Z	19.817	3
81	MP1A	Mx	0	3
82	MP1B	X	0	1
83	MP1B	Z	18.115	1
84	MP1B	Mx	-.012	1
85	MP1B	X	0	3
86	MP1B	Z	18.115	3
87	MP1B	Mx	-.012	3
88	MP1C	X	0	1
89	MP1C	Z	17.813	1
90	MP1C	Mx	.013	1
91	MP1C	X	0	3
92	MP1C	Z	17.813	3
93	MP1C	Mx	.013	3
94	MP4A	X	0	1
95	MP4A	Z	19.817	1
96	MP4A	Mx	0	1
97	MP4A	X	0	3
98	MP4A	Z	19.817	3
99	MP4A	Mx	0	3
100	MP4B	X	0	1
101	MP4B	Z	18.115	1
102	MP4B	Mx	-.012	1
103	MP4B	X	0	3
104	MP4B	Z	18.115	3
105	MP4B	Mx	-.012	3
106	MP4C	X	0	1
107	MP4C	Z	17.813	1
108	MP4C	Mx	.013	1
109	MP4C	X	0	3
110	MP4C	Z	17.813	3
111	MP4C	Mx	.013	3
112	MP2A	X	0	5
113	MP2A	Z	1.349	5
114	MP2A	Mx	.00045	5
115	MP2A	X	0	6
116	MP2A	Z	1.349	6
117	MP2A	Mx	.00045	6
118	MP2B	X	0	5
119	MP2B	Z	3.021	5
120	MP2B	Mx	.002	5
121	MP2B	X	0	6
122	MP2B	Z	3.021	6
123	MP2B	Mx	.002	6
124	MP2A	X	0	5
125	MP2A	Z	1.349	5
126	MP2A	Mx	-.00045	5
127	MP2A	X	0	6
128	MP2A	Z	1.349	6
129	MP2A	Mx	-.00045	6
130	MP2B	X	0	5
131	MP2B	Z	3.021	5
132	MP2B	Mx	.003	5
133	MP2B	X	0	6
134	MP2B	Z	3.021	6
135	MP2B	Mx	.003	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-12.546	.92
2	MP2A	Z	21.731	.92
3	MP2A	Mx	.024	.92
4	MP2A	X	-12.546	4.92
5	MP2A	Z	21.731	4.92
6	MP2A	Mx	.024	4.92
7	MP2B	X	-12.224	.92
8	MP2B	Z	21.173	.92
9	MP2B	Mx	-.000699	.92
10	MP2B	X	-12.224	4.92
11	MP2B	Z	21.173	4.92
12	MP2B	Mx	-.000699	4.92
13	MP2C	X	-12.224	.92
14	MP2C	Z	21.173	.92
15	MP2C	Mx	-.000699	.92
16	MP2C	X	-12.224	4.92
17	MP2C	Z	21.173	4.92
18	MP2C	Mx	-.000699	4.92
19	MP2A	X	-12.546	.92
20	MP2A	Z	21.731	.92
21	MP2A	Mx	-.005	.92
22	MP2A	X	-12.546	4.92
23	MP2A	Z	21.731	4.92
24	MP2A	Mx	-.005	4.92
25	MP2B	X	-11.066	.92
26	MP2B	Z	19.166	.92
27	MP2B	Mx	-.017	.92
28	MP2B	X	-11.066	4.92
29	MP2B	Z	19.166	4.92
30	MP2B	Mx	-.017	4.92
31	MP2C	X	-12.224	.92
32	MP2C	Z	21.173	.92
33	MP2C	Mx	.024	.92
34	MP2C	X	-12.224	4.92
35	MP2C	Z	21.173	4.92
36	MP2C	Mx	.024	4.92
37	MP3A	X	-6.612	1
38	MP3A	Z	11.452	1
39	MP3A	Mx	.005	1
40	MP3A	X	-6.612	3
41	MP3A	Z	11.452	3
42	MP3A	Mx	.005	3
43	MP3B	X	-3.289	1
44	MP3B	Z	5.697	1
45	MP3B	Mx	-.005	1
46	MP3B	X	-3.289	3
47	MP3B	Z	5.697	3
48	MP3B	Mx	-.005	3
49	MP3C	X	-5.889	1
50	MP3C	Z	10.2	1
51	MP3C	Mx	.006	1
52	MP3C	X	-5.889	3
53	MP3C	Z	10.2	3
54	MP3C	Mx	.006	3
55	MP1A	X	-6.012	3
56	MP1A	Z	10.414	3
57	MP1A	Mx	-.003	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1B	X	-4.527	3
59	MP1B	Z	7.841	3
60	MP1B	Mx	.005	3
61	MP1C	X	-5.689	3
62	MP1C	Z	9.854	3
63	MP1C	Mx	-.004	3
64	MP2A	X	-5.824	3
65	MP2A	Z	10.088	3
66	MP2A	Mx	-.003	3
67	MP2B	X	-3.775	3
68	MP2B	Z	6.538	3
69	MP2B	Mx	.004	3
70	MP2C	X	-5.378	3
71	MP2C	Z	9.315	3
72	MP2C	Mx	-.003	3
73	OVP	X	-11.536	1
74	OVP	Z	19.981	1
75	OVP	Mx	0	1
76	MP1A	X	-9.625	1
77	MP1A	Z	16.671	1
78	MP1A	Mx	.007	1
79	MP1A	X	-9.625	3
80	MP1A	Z	16.671	3
81	MP1A	Mx	.007	3
82	MP1B	X	-8.774	1
83	MP1B	Z	15.196	1
84	MP1B	Mx	-.013	1
85	MP1B	X	-8.774	3
86	MP1B	Z	15.196	3
87	MP1B	Mx	-.013	3
88	MP1C	X	-9.44	1
89	MP1C	Z	16.35	1
90	MP1C	Mx	.009	1
91	MP1C	X	-9.44	3
92	MP1C	Z	16.35	3
93	MP1C	Mx	.009	3
94	MP4A	X	-9.625	1
95	MP4A	Z	16.671	1
96	MP4A	Mx	.007	1
97	MP4A	X	-9.625	3
98	MP4A	Z	16.671	3
99	MP4A	Mx	.007	3
100	MP4B	X	-8.774	1
101	MP4B	Z	15.196	1
102	MP4B	Mx	-.013	1
103	MP4B	X	-8.774	3
104	MP4B	Z	15.196	3
105	MP4B	Mx	-.013	3
106	MP4C	X	-9.44	1
107	MP4C	Z	16.35	1
108	MP4C	Mx	.009	1
109	MP4C	X	-9.44	3
110	MP4C	Z	16.35	3
111	MP4C	Mx	.009	3
112	MP2A	X	-9.953	5
113	MP2A	Z	1.651	5
114	MP2A	Mx	-.000403	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
115	MP2A	X	-0.953	6
116	MP2A	Z	1.651	6
117	MP2A	Mx	-0.000403	6
118	MP2B	X	-1.789	5
119	MP2B	Z	3.099	5
120	MP2B	Mx	.004	5
121	MP2B	X	-1.789	6
122	MP2B	Z	3.099	6
123	MP2B	Mx	.004	6
124	MP2A	X	-0.953	5
125	MP2A	Z	1.651	5
126	MP2A	Mx	-0.002	5
127	MP2A	X	-0.953	6
128	MP2A	Z	1.651	6
129	MP2A	Mx	-0.002	6
130	MP2B	X	-1.789	5
131	MP2B	Z	3.099	5
132	MP2B	Mx	.004	5
133	MP2B	X	-1.789	6
134	MP2B	Z	3.099	6
135	MP2B	Mx	.004	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-20.021	.92
2	MP2A	Z	11.559	.92
3	MP2A	Mx	.023	.92
4	MP2A	X	-20.021	4.92
5	MP2A	Z	11.559	4.92
6	MP2A	Mx	.023	4.92
7	MP2B	X	-22.483	.92
8	MP2B	Z	12.98	.92
9	MP2B	Mx	-0.014	.92
10	MP2B	X	-22.483	4.92
11	MP2B	Z	12.98	4.92
12	MP2B	Mx	-0.014	4.92
13	MP2C	X	-22.483	.92
14	MP2C	Z	12.98	.92
15	MP2C	Mx	-0.014	.92
16	MP2C	X	-22.483	4.92
17	MP2C	Z	12.98	4.92
18	MP2C	Mx	-0.014	4.92
19	MP2A	X	-20.021	.92
20	MP2A	Z	11.559	.92
21	MP2A	Mx	.007	.92
22	MP2A	X	-20.021	4.92
23	MP2A	Z	11.559	4.92
24	MP2A	Mx	.007	4.92
25	MP2B	X	-20.021	.92
26	MP2B	Z	11.559	.92
27	MP2B	Mx	-0.023	.92
28	MP2B	X	-20.021	4.92
29	MP2B	Z	11.559	4.92
30	MP2B	Mx	-0.023	4.92
31	MP2C	X	-22.483	.92
32	MP2C	Z	12.98	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP2C	Mx	.02	.92
34	MP2C	X	-22.483	4.92
35	MP2C	Z	12.98	4.92
36	MP2C	Mx	.02	4.92
37	MP3A	X	-7.615	1
38	MP3A	Z	4.397	1
39	MP3A	Mx	.006	1
40	MP3A	X	-7.615	3
41	MP3A	Z	4.397	3
42	MP3A	Mx	.006	3
43	MP3B	X	-7.615	1
44	MP3B	Z	4.397	1
45	MP3B	Mx	-.006	1
46	MP3B	X	-7.615	3
47	MP3B	Z	4.397	3
48	MP3B	Mx	-.006	3
49	MP3C	X	-13.139	1
50	MP3C	Z	7.586	1
51	MP3C	Mx	.002	1
52	MP3C	X	-13.139	3
53	MP3C	Z	7.586	3
54	MP3C	Mx	.002	3
55	MP1A	X	-8.699	3
56	MP1A	Z	5.022	3
57	MP1A	Mx	-.004	3
58	MP1B	X	-8.699	3
59	MP1B	Z	5.022	3
60	MP1B	Mx	.004	3
61	MP1C	X	-11.168	3
62	MP1C	Z	6.448	3
63	MP1C	Mx	-.001	3
64	MP2A	X	-7.721	3
65	MP2A	Z	4.458	3
66	MP2A	Mx	-.004	3
67	MP2B	X	-7.721	3
68	MP2B	Z	4.458	3
69	MP2B	Mx	.004	3
70	MP2C	X	-11.128	3
71	MP2C	Z	6.425	3
72	MP2C	Mx	-.001	3
73	OVP	X	-16.555	1
74	OVP	Z	9.558	1
75	OVP	Mx	0	1
76	MP1A	X	-15.688	1
77	MP1A	Z	9.057	1
78	MP1A	Mx	.012	1
79	MP1A	X	-15.688	3
80	MP1A	Z	9.057	3
81	MP1A	Mx	.012	3
82	MP1B	X	-15.688	1
83	MP1B	Z	9.057	1
84	MP1B	Mx	-.012	1
85	MP1B	X	-15.688	3
86	MP1B	Z	9.057	3
87	MP1B	Mx	-.012	3
88	MP1C	X	-17.103	1
89	MP1C	Z	9.874	1





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
90	MP1C	Mx	.003	1
91	MP1C	X	-17.103	3
92	MP1C	Z	9.874	3
93	MP1C	Mx	.003	3
94	MP4A	X	-15.688	1
95	MP4A	Z	9.057	1
96	MP4A	Mx	.012	1
97	MP4A	X	-15.688	3
98	MP4A	Z	9.057	3
99	MP4A	Mx	.012	3
100	MP4B	X	-15.688	1
101	MP4B	Z	9.057	1
102	MP4B	Mx	-.012	1
103	MP4B	X	-15.688	3
104	MP4B	Z	9.057	3
105	MP4B	Mx	-.012	3
106	MP4C	X	-17.103	1
107	MP4C	Z	9.874	1
108	MP4C	Mx	.003	1
109	MP4C	X	-17.103	3
110	MP4C	Z	9.874	3
111	MP4C	Mx	.003	3
112	MP2A	X	-2.616	5
113	MP2A	Z	1.51	5
114	MP2A	Mx	-.002	5
115	MP2A	X	-2.616	6
116	MP2A	Z	1.51	6
117	MP2A	Mx	-.002	6
118	MP2B	X	-2.616	5
119	MP2B	Z	1.51	5
120	MP2B	Mx	.003	5
121	MP2B	X	-2.616	6
122	MP2B	Z	1.51	6
123	MP2B	Mx	.003	6
124	MP2A	X	-2.616	5
125	MP2A	Z	1.51	5
126	MP2A	Mx	-.003	5
127	MP2A	X	-2.616	6
128	MP2A	Z	1.51	6
129	MP2A	Mx	-.003	6
130	MP2B	X	-2.616	5
131	MP2B	Z	1.51	5
132	MP2B	Mx	.002	5
133	MP2B	X	-2.616	6
134	MP2B	Z	1.51	6
135	MP2B	Mx	.002	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-22.131	.92
2	MP2A	Z	0	.92
3	MP2A	Mx	.017	.92
4	MP2A	X	-22.131	4.92
5	MP2A	Z	0	4.92
6	MP2A	Mx	.017	4.92
7	MP2B	X	-25.618	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
8	MP2B	Z	0	.92
9	MP2B	Mx	-.023	.92
10	MP2B	X	-25.618	4.92
11	MP2B	Z	0	4.92
12	MP2B	Mx	-.023	4.92
13	MP2C	X	-25.618	.92
14	MP2C	Z	0	.92
15	MP2C	Mx	-.023	.92
16	MP2C	X	-25.618	4.92
17	MP2C	Z	0	4.92
18	MP2C	Mx	-.023	4.92
19	MP2A	X	-22.131	.92
20	MP2A	Z	0	.92
21	MP2A	Mx	.017	.92
22	MP2A	X	-22.131	4.92
23	MP2A	Z	0	4.92
24	MP2A	Mx	.017	4.92
25	MP2B	X	-25.093	.92
26	MP2B	Z	0	.92
27	MP2B	Mx	-.024	.92
28	MP2B	X	-25.093	4.92
29	MP2B	Z	0	4.92
30	MP2B	Mx	-.024	4.92
31	MP2C	X	-25.618	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	.009	.92
34	MP2C	X	-25.618	4.92
35	MP2C	Z	0	4.92
36	MP2C	Mx	.009	4.92
37	MP3A	X	-6.578	1
38	MP3A	Z	0	1
39	MP3A	Mx	.005	1
40	MP3A	X	-6.578	3
41	MP3A	Z	0	3
42	MP3A	Mx	.005	3
43	MP3B	X	-13.224	1
44	MP3B	Z	0	1
45	MP3B	Mx	-.005	1
46	MP3B	X	-13.224	3
47	MP3B	Z	0	3
48	MP3B	Mx	-.005	3
49	MP3C	X	-14.403	1
50	MP3C	Z	0	1
51	MP3C	Mx	-.004	1
52	MP3C	X	-14.403	3
53	MP3C	Z	0	3
54	MP3C	Mx	-.004	3
55	MP1A	X	-9.054	3
56	MP1A	Z	0	3
57	MP1A	Mx	-.005	3
58	MP1B	X	-12.025	3
59	MP1B	Z	0	3
60	MP1B	Mx	.003	3
61	MP1C	X	-12.551	3
62	MP1C	Z	0	3
63	MP1C	Mx	.002	3
64	MP2A	X	-7.549	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
65	MP2A	Z	0	3
66	MP2A	Mx	-.004	3
67	MP2B	X	-11.648	3
68	MP2B	Z	0	3
69	MP2B	Mx	.003	3
70	MP2C	X	-12.375	3
71	MP2C	Z	0	3
72	MP2C	Mx	.002	3
73	OVP	X	-17.137	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-17.547	1
77	MP1A	Z	0	1
78	MP1A	Mx	.013	1
79	MP1A	X	-17.547	3
80	MP1A	Z	0	3
81	MP1A	Mx	.013	3
82	MP1B	X	-19.25	1
83	MP1B	Z	0	1
84	MP1B	Mx	-.007	1
85	MP1B	X	-19.25	3
86	MP1B	Z	0	3
87	MP1B	Mx	-.007	3
88	MP1C	X	-19.552	1
89	MP1C	Z	0	1
90	MP1C	Mx	-.005	1
91	MP1C	X	-19.552	3
92	MP1C	Z	0	3
93	MP1C	Mx	-.005	3
94	MP4A	X	-17.547	1
95	MP4A	Z	0	1
96	MP4A	Mx	.013	1
97	MP4A	X	-17.547	3
98	MP4A	Z	0	3
99	MP4A	Mx	.013	3
100	MP4B	X	-19.25	1
101	MP4B	Z	0	1
102	MP4B	Mx	-.007	1
103	MP4B	X	-19.25	3
104	MP4B	Z	0	3
105	MP4B	Mx	-.007	3
106	MP4C	X	-19.552	1
107	MP4C	Z	0	1
108	MP4C	Mx	-.005	1
109	MP4C	X	-19.552	3
110	MP4C	Z	0	3
111	MP4C	Mx	-.005	3
112	MP2A	X	-3.578	5
113	MP2A	Z	0	5
114	MP2A	Mx	-.004	5
115	MP2A	X	-3.578	6
116	MP2A	Z	0	6
117	MP2A	Mx	-.004	6
118	MP2B	X	-1.906	5
119	MP2B	Z	0	5
120	MP2B	Mx	.002	5
121	MP2B	X	-1.906	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
122	MP2B	Z	0	6
123	MP2B	Mx	.002	6
124	MP2A	X	-3.578	5
125	MP2A	Z	0	5
126	MP2A	Mx	-.004	5
127	MP2A	X	-3.578	6
128	MP2A	Z	0	6
129	MP2A	Mx	-.004	6
130	MP2B	X	-1.906	5
131	MP2B	Z	0	5
132	MP2B	Mx	.000403	5
133	MP2B	X	-1.906	6
134	MP2B	Z	0	6
135	MP2B	Mx	.000403	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-20.021	.92
2	MP2A	Z	-11.559	.92
3	MP2A	Mx	.007	.92
4	MP2A	X	-20.021	4.92
5	MP2A	Z	-11.559	4.92
6	MP2A	Mx	.007	4.92
7	MP2B	X	-20.579	.92
8	MP2B	Z	-11.881	.92
9	MP2B	Mx	-.024	.92
10	MP2B	X	-20.579	4.92
11	MP2B	Z	-11.881	4.92
12	MP2B	Mx	-.024	4.92
13	MP2C	X	-20.579	.92
14	MP2C	Z	-11.881	.92
15	MP2C	Mx	-.024	.92
16	MP2C	X	-20.579	4.92
17	MP2C	Z	-11.881	4.92
18	MP2C	Mx	-.024	4.92
19	MP2A	X	-20.021	.92
20	MP2A	Z	-11.559	.92
21	MP2A	Mx	.023	.92
22	MP2A	X	-20.021	4.92
23	MP2A	Z	-11.559	4.92
24	MP2A	Mx	.023	4.92
25	MP2B	X	-22.586	.92
26	MP2B	Z	-13.04	.92
27	MP2B	Mx	-.017	.92
28	MP2B	X	-22.586	4.92
29	MP2B	Z	-13.04	4.92
30	MP2B	Mx	-.017	4.92
31	MP2C	X	-20.579	.92
32	MP2C	Z	-11.881	.92
33	MP2C	Mx	-.003	.92
34	MP2C	X	-20.579	4.92
35	MP2C	Z	-11.881	4.92
36	MP2C	Mx	-.003	4.92
37	MP3A	X	-7.615	1
38	MP3A	Z	-4.397	1
39	MP3A	Mx	.006	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP3A	X	-7.615	3
41	MP3A	Z	-4.397	3
42	MP3A	Mx	.006	3
43	MP3B	X	-13.371	1
44	MP3B	Z	-7.72	1
45	MP3B	Mx	0	1
46	MP3B	X	-13.371	3
47	MP3B	Z	-7.72	3
48	MP3B	Mx	0	3
49	MP3C	X	-8.868	1
50	MP3C	Z	-5.12	1
51	MP3C	Mx	-.006	1
52	MP3C	X	-8.868	3
53	MP3C	Z	-5.12	3
54	MP3C	Mx	-.006	3
55	MP1A	X	-8.699	3
56	MP1A	Z	-5.022	3
57	MP1A	Mx	-.004	3
58	MP1B	X	-11.271	3
59	MP1B	Z	-6.507	3
60	MP1B	Mx	0	3
61	MP1C	X	-9.258	3
62	MP1C	Z	-5.345	3
63	MP1C	Mx	.004	3
64	MP2A	X	-7.721	3
65	MP2A	Z	-4.458	3
66	MP2A	Mx	-.004	3
67	MP2B	X	-11.271	3
68	MP2B	Z	-6.507	3
69	MP2B	Mx	0	3
70	MP2C	X	-8.493	3
71	MP2C	Z	-4.904	3
72	MP2C	Mx	.004	3
73	OVP	X	-16.555	1
74	OVP	Z	-9.558	1
75	OVP	Mx	0	1
76	MP1A	X	-15.688	1
77	MP1A	Z	-9.057	1
78	MP1A	Mx	.012	1
79	MP1A	X	-15.688	3
80	MP1A	Z	-9.057	3
81	MP1A	Mx	.012	3
82	MP1B	X	-17.162	1
83	MP1B	Z	-9.909	1
84	MP1B	Mx	0	1
85	MP1B	X	-17.162	3
86	MP1B	Z	-9.909	3
87	MP1B	Mx	0	3
88	MP1C	X	-16.009	1
89	MP1C	Z	-9.243	1
90	MP1C	Mx	-.011	1
91	MP1C	X	-16.009	3
92	MP1C	Z	-9.243	3
93	MP1C	Mx	-.011	3
94	MP4A	X	-15.688	1
95	MP4A	Z	-9.057	1
96	MP4A	Mx	.012	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
97	MP4A	X	-15.688	3
98	MP4A	Z	-9.057	3
99	MP4A	Mx	.012	3
100	MP4B	X	-17.162	1
101	MP4B	Z	-9.909	1
102	MP4B	Mx	0	1
103	MP4B	X	-17.162	3
104	MP4B	Z	-9.909	3
105	MP4B	Mx	0	3
106	MP4C	X	-16.009	1
107	MP4C	Z	-9.243	1
108	MP4C	Mx	-.011	1
109	MP4C	X	-16.009	3
110	MP4C	Z	-9.243	3
111	MP4C	Mx	-.011	3
112	MP2A	X	-2.616	5
113	MP2A	Z	-1.51	5
114	MP2A	Mx	-.003	5
115	MP2A	X	-2.616	6
116	MP2A	Z	-1.51	6
117	MP2A	Mx	-.003	6
118	MP2B	X	-1.168	5
119	MP2B	Z	-.674	5
120	MP2B	Mx	.00045	5
121	MP2B	X	-1.168	6
122	MP2B	Z	-.674	6
123	MP2B	Mx	.00045	6
124	MP2A	X	-2.616	5
125	MP2A	Z	-1.51	5
126	MP2A	Mx	-.002	5
127	MP2A	X	-2.616	6
128	MP2A	Z	-1.51	6
129	MP2A	Mx	-.002	6
130	MP2B	X	-1.168	5
131	MP2B	Z	-.674	5
132	MP2B	Mx	-.000449	5
133	MP2B	X	-1.168	6
134	MP2B	Z	-.674	6
135	MP2B	Mx	-.000449	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-12.546	.92
2	MP2A	Z	-21.731	.92
3	MP2A	Mx	-.005	.92
4	MP2A	X	-12.546	4.92
5	MP2A	Z	-21.731	4.92
6	MP2A	Mx	-.005	4.92
7	MP2B	X	-11.125	.92
8	MP2B	Z	-19.269	.92
9	MP2B	Mx	-.019	.92
10	MP2B	X	-11.125	4.92
11	MP2B	Z	-19.269	4.92
12	MP2B	Mx	-.019	4.92
13	MP2C	X	-11.125	.92
14	MP2C	Z	-19.269	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2C	Mx	-0.019	.92
16	MP2C	X	-11.125	4.92
17	MP2C	Z	-19.269	4.92
18	MP2C	Mx	-0.019	4.92
19	MP2A	X	-12.546	.92
20	MP2A	Z	-21.731	.92
21	MP2A	Mx	.024	.92
22	MP2A	X	-12.546	4.92
23	MP2A	Z	-21.731	4.92
24	MP2A	Mx	.024	4.92
25	MP2B	X	-12.546	.92
26	MP2B	Z	-21.731	.92
27	MP2B	Mx	-0.005	.92
28	MP2B	X	-12.546	4.92
29	MP2B	Z	-21.731	4.92
30	MP2B	Mx	-0.005	4.92
31	MP2C	X	-11.125	.92
32	MP2C	Z	-19.269	.92
33	MP2C	Mx	-0.014	.92
34	MP2C	X	-11.125	4.92
35	MP2C	Z	-19.269	4.92
36	MP2C	Mx	-0.014	4.92
37	MP3A	X	-6.612	1
38	MP3A	Z	-11.452	1
39	MP3A	Mx	.005	1
40	MP3A	X	-6.612	3
41	MP3A	Z	-11.452	3
42	MP3A	Mx	.005	3
43	MP3B	X	-6.612	1
44	MP3B	Z	-11.452	1
45	MP3B	Mx	.005	1
46	MP3B	X	-6.612	3
47	MP3B	Z	-11.452	3
48	MP3B	Mx	.005	3
49	MP3C	X	-3.423	1
50	MP3C	Z	-5.928	1
51	MP3C	Mx	-0.005	1
52	MP3C	X	-3.423	3
53	MP3C	Z	-5.928	3
54	MP3C	Mx	-0.005	3
55	MP1A	X	-6.012	3
56	MP1A	Z	-10.414	3
57	MP1A	Mx	-0.003	3
58	MP1B	X	-6.012	3
59	MP1B	Z	-10.414	3
60	MP1B	Mx	-0.003	3
61	MP1C	X	-4.587	3
62	MP1C	Z	-7.945	3
63	MP1C	Mx	.005	3
64	MP2A	X	-5.824	3
65	MP2A	Z	-10.088	3
66	MP2A	Mx	-0.003	3
67	MP2B	X	-5.824	3
68	MP2B	Z	-10.088	3
69	MP2B	Mx	-0.003	3
70	MP2C	X	-3.857	3
71	MP2C	Z	-6.681	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2C	Mx	.004	3
73	OVP	X	-11.536	1
74	OVP	Z	-19.981	1
75	OVP	Mx	0	1
76	MP1A	X	-9.625	1
77	MP1A	Z	-16.671	1
78	MP1A	Mx	.007	1
79	MP1A	X	-9.625	3
80	MP1A	Z	-16.671	3
81	MP1A	Mx	.007	3
82	MP1B	X	-9.625	1
83	MP1B	Z	-16.671	1
84	MP1B	Mx	.007	1
85	MP1B	X	-9.625	3
86	MP1B	Z	-16.671	3
87	MP1B	Mx	.007	3
88	MP1C	X	-8.808	1
89	MP1C	Z	-15.256	1
90	MP1C	Mx	-.013	1
91	MP1C	X	-8.808	3
92	MP1C	Z	-15.256	3
93	MP1C	Mx	-.013	3
94	MP4A	X	-9.625	1
95	MP4A	Z	-16.671	1
96	MP4A	Mx	.007	1
97	MP4A	X	-9.625	3
98	MP4A	Z	-16.671	3
99	MP4A	Mx	.007	3
100	MP4B	X	-9.625	1
101	MP4B	Z	-16.671	1
102	MP4B	Mx	.007	1
103	MP4B	X	-9.625	3
104	MP4B	Z	-16.671	3
105	MP4B	Mx	.007	3
106	MP4C	X	-8.808	1
107	MP4C	Z	-15.256	1
108	MP4C	Mx	-.013	1
109	MP4C	X	-8.808	3
110	MP4C	Z	-15.256	3
111	MP4C	Mx	-.013	3
112	MP2A	X	-.953	5
113	MP2A	Z	-1.651	5
114	MP2A	Mx	-.002	5
115	MP2A	X	-.953	6
116	MP2A	Z	-1.651	6
117	MP2A	Mx	-.002	6
118	MP2B	X	-.953	5
119	MP2B	Z	-1.651	5
120	MP2B	Mx	-.000403	5
121	MP2B	X	-.953	6
122	MP2B	Z	-1.651	6
123	MP2B	Mx	-.000403	6
124	MP2A	X	-.953	5
125	MP2A	Z	-1.651	5
126	MP2A	Mx	-.000403	5
127	MP2A	X	-.953	6
128	MP2A	Z	-1.651	6





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
129	MP2A	Mx	-0.000403	6
130	MP2B	X	-0.953	5
131	MP2B	Z	-1.651	5
132	MP2B	Mx	-0.002	5
133	MP2B	X	-0.953	6
134	MP2B	Z	-1.651	6
135	MP2B	Mx	-0.002	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.92
2	MP2A	Z	-8.507	.92
3	MP2A	Mx	-0.006	.92
4	MP2A	X	0	4.92
5	MP2A	Z	-8.507	4.92
6	MP2A	Mx	-0.006	4.92
7	MP2B	X	0	.92
8	MP2B	Z	-7.278	.92
9	MP2B	Mx	-0.003	.92
10	MP2B	X	0	4.92
11	MP2B	Z	-7.278	4.92
12	MP2B	Mx	-0.003	4.92
13	MP2C	X	0	.92
14	MP2C	Z	-7.278	.92
15	MP2C	Mx	-0.003	.92
16	MP2C	X	0	4.92
17	MP2C	Z	-7.278	4.92
18	MP2C	Mx	-0.003	4.92
19	MP2A	X	0	.92
20	MP2A	Z	-8.507	.92
21	MP2A	Mx	.006	.92
22	MP2A	X	0	4.92
23	MP2A	Z	-8.507	4.92
24	MP2A	Mx	.006	4.92
25	MP2B	X	0	.92
26	MP2B	Z	-7.464	.92
27	MP2B	Mx	.002	.92
28	MP2B	X	0	4.92
29	MP2B	Z	-7.464	4.92
30	MP2B	Mx	.002	4.92
31	MP2C	X	0	.92
32	MP2C	Z	-7.278	.92
33	MP2C	Mx	-0.007	.92
34	MP2C	X	0	4.92
35	MP2C	Z	-7.278	4.92
36	MP2C	Mx	-0.007	4.92
37	MP3A	X	0	1
38	MP3A	Z	-4.102	1
39	MP3A	Mx	0	1
40	MP3A	X	0	3
41	MP3A	Z	-4.102	3
42	MP3A	Mx	0	3
43	MP3B	X	0	1
44	MP3B	Z	-2.085	1
45	MP3B	Mx	.001	1
46	MP3B	X	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP3B	Z	-2.085	3
48	MP3B	Mx	.001	3
49	MP3C	X	0	1
50	MP3C	Z	-1.727	1
51	MP3C	Mx	-.001	1
52	MP3C	X	0	3
53	MP3C	Z	-1.727	3
54	MP3C	Mx	-.001	3
55	MP1A	X	0	3
56	MP1A	Z	-3.244	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	-2.443	3
60	MP1B	Mx	-.001	3
61	MP1C	X	0	3
62	MP1C	Z	-2.301	3
63	MP1C	Mx	.001	3
64	MP2A	X	0	3
65	MP2A	Z	-3.244	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	-2.145	3
69	MP2B	Mx	-.000929	3
70	MP2C	X	0	3
71	MP2C	Z	-1.95	3
72	MP2C	Mx	.000916	3
73	OVP	X	0	1
74	OVP	Z	-6.634	1
75	OVP	Mx	0	1
76	MP1A	X	0	1
77	MP1A	Z	-6.435	1
78	MP1A	Mx	0	1
79	MP1A	X	0	3
80	MP1A	Z	-6.435	3
81	MP1A	Mx	0	3
82	MP1B	X	0	1
83	MP1B	Z	-5.838	1
84	MP1B	Mx	.004	1
85	MP1B	X	0	3
86	MP1B	Z	-5.838	3
87	MP1B	Mx	.004	3
88	MP1C	X	0	1
89	MP1C	Z	-5.732	1
90	MP1C	Mx	-.004	1
91	MP1C	X	0	3
92	MP1C	Z	-5.732	3
93	MP1C	Mx	-.004	3
94	MP4A	X	0	1
95	MP4A	Z	-6.435	1
96	MP4A	Mx	0	1
97	MP4A	X	0	3
98	MP4A	Z	-6.435	3
99	MP4A	Mx	0	3
100	MP4B	X	0	1
101	MP4B	Z	-5.838	1
102	MP4B	Mx	.004	1
103	MP4B	X	0	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
104	MP4B	Z	-5.838	3
105	MP4B	Mx	.004	3
106	MP4C	X	0	1
107	MP4C	Z	-5.732	1
108	MP4C	Mx	-.004	1
109	MP4C	X	0	3
110	MP4C	Z	-5.732	3
111	MP4C	Mx	-.004	3
112	MP2A	X	0	5
113	MP2A	Z	-1.005	5
114	MP2A	Mx	-.000335	5
115	MP2A	X	0	6
116	MP2A	Z	-1.005	6
117	MP2A	Mx	-.000335	6
118	MP2B	X	0	5
119	MP2B	Z	-1.007	5
120	MP2B	Mx	-.000704	5
121	MP2B	X	0	6
122	MP2B	Z	-1.007	6
123	MP2B	Mx	-.000704	6
124	MP2A	X	0	5
125	MP2A	Z	-1.005	5
126	MP2A	Mx	.000335	5
127	MP2A	X	0	6
128	MP2A	Z	-1.005	6
129	MP2A	Mx	.000335	6
130	MP2B	X	0	5
131	MP2B	Z	-1.007	5
132	MP2B	Mx	-.001	5
133	MP2B	X	0	6
134	MP2B	Z	-1.007	6
135	MP2B	Mx	-.001	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	4.08	.92
2	MP2A	Z	-7.066	.92
3	MP2A	Mx	-.008	.92
4	MP2A	X	4.08	4.92
5	MP2A	Z	-7.066	4.92
6	MP2A	Mx	-.008	4.92
7	MP2B	X	3.966	.92
8	MP2B	Z	-6.87	.92
9	MP2B	Mx	.000227	.92
10	MP2B	X	3.966	4.92
11	MP2B	Z	-6.87	4.92
12	MP2B	Mx	.000227	4.92
13	MP2C	X	3.966	.92
14	MP2C	Z	-6.87	.92
15	MP2C	Mx	.000227	.92
16	MP2C	X	3.966	4.92
17	MP2C	Z	-6.87	4.92
18	MP2C	Mx	.000227	4.92
19	MP2A	X	4.08	.92
20	MP2A	Z	-7.066	.92
21	MP2A	Mx	.002	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
22	MP2A	X	4.08	4.92
23	MP2A	Z	-7.066	4.92
24	MP2A	Mx	.002	4.92
25	MP2B	X	3.558	.92
26	MP2B	Z	-6.162	.92
27	MP2B	Mx	.005	.92
28	MP2B	X	3.558	4.92
29	MP2B	Z	-6.162	4.92
30	MP2B	Mx	.005	4.92
31	MP2C	X	3.966	.92
32	MP2C	Z	-6.87	.92
33	MP2C	Mx	-.008	.92
34	MP2C	X	3.966	4.92
35	MP2C	Z	-6.87	4.92
36	MP2C	Mx	-.008	4.92
37	MP3A	X	1.715	1
38	MP3A	Z	-2.97	1
39	MP3A	Mx	-.001	1
40	MP3A	X	1.715	3
41	MP3A	Z	-2.97	3
42	MP3A	Mx	-.001	3
43	MP3B	X	.706	1
44	MP3B	Z	-1.223	1
45	MP3B	Mx	.001	1
46	MP3B	X	.706	3
47	MP3B	Z	-1.223	3
48	MP3B	Mx	.001	3
49	MP3C	X	1.495	1
50	MP3C	Z	-2.59	1
51	MP3C	Mx	-.001	1
52	MP3C	X	1.495	3
53	MP3C	Z	-2.59	3
54	MP3C	Mx	-.001	3
55	MP1A	X	1.489	3
56	MP1A	Z	-2.578	3
57	MP1A	Mx	.000744	3
58	MP1B	X	1.088	3
59	MP1B	Z	-1.885	3
60	MP1B	Mx	-.001	3
61	MP1C	X	1.401	3
62	MP1C	Z	-2.427	3
63	MP1C	Mx	.000901	3
64	MP2A	X	1.439	3
65	MP2A	Z	-2.492	3
66	MP2A	Mx	.00072	3
67	MP2B	X	.889	3
68	MP2B	Z	-1.541	3
69	MP2B	Mx	-.00089	3
70	MP2C	X	1.319	3
71	MP2C	Z	-2.285	3
72	MP2C	Mx	.000848	3
73	OVP	X	3.118	1
74	OVP	Z	-5.401	1
75	OVP	Mx	0	1
76	MP1A	X	3.118	1
77	MP1A	Z	-5.401	1
78	MP1A	Mx	-.002	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
79	MP1A	X	3.118	3
80	MP1A	Z	-5.401	3
81	MP1A	Mx	-.002	3
82	MP1B	X	2.819	1
83	MP1B	Z	-4.883	1
84	MP1B	Mx	.004	1
85	MP1B	X	2.819	3
86	MP1B	Z	-4.883	3
87	MP1B	Mx	.004	3
88	MP1C	X	3.053	1
89	MP1C	Z	-5.288	1
90	MP1C	Mx	-.003	1
91	MP1C	X	3.053	3
92	MP1C	Z	-5.288	3
93	MP1C	Mx	-.003	3
94	MP4A	X	3.118	1
95	MP4A	Z	-5.401	1
96	MP4A	Mx	-.002	1
97	MP4A	X	3.118	3
98	MP4A	Z	-5.401	3
99	MP4A	Mx	-.002	3
100	MP4B	X	2.819	1
101	MP4B	Z	-4.883	1
102	MP4B	Mx	.004	1
103	MP4B	X	2.819	3
104	MP4B	Z	-4.883	3
105	MP4B	Mx	.004	3
106	MP4C	X	3.053	1
107	MP4C	Z	-5.288	1
108	MP4C	Mx	-.003	1
109	MP4C	X	3.053	3
110	MP4C	Z	-5.288	3
111	MP4C	Mx	-.003	3
112	MP2A	X	.503	5
113	MP2A	Z	-.871	5
114	MP2A	Mx	.000213	5
115	MP2A	X	.503	6
116	MP2A	Z	-.871	6
117	MP2A	Mx	.000213	6
118	MP2B	X	.504	5
119	MP2B	Z	-.873	5
120	MP2B	Mx	-.001	5
121	MP2B	X	.504	6
122	MP2B	Z	-.873	6
123	MP2B	Mx	-.001	6
124	MP2A	X	.503	5
125	MP2A	Z	-.871	5
126	MP2A	Mx	.000793	5
127	MP2A	X	.503	6
128	MP2A	Z	-.871	6
129	MP2A	Mx	.000793	6
130	MP2B	X	.504	5
131	MP2B	Z	-.873	5
132	MP2B	Mx	-.001	5
133	MP2B	X	.504	6
134	MP2B	Z	-.873	6
135	MP2B	Mx	-.001	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	6.464	.92
2	MP2A	Z	-3.732	.92
3	MP2A	Mx	-.007	.92
4	MP2A	X	6.464	4.92
5	MP2A	Z	-3.732	4.92
6	MP2A	Mx	-.007	4.92
7	MP2B	X	7.331	.92
8	MP2B	Z	-4.233	.92
9	MP2B	Mx	.004	.92
10	MP2B	X	7.331	4.92
11	MP2B	Z	-4.233	4.92
12	MP2B	Mx	.004	4.92
13	MP2C	X	7.331	.92
14	MP2C	Z	-4.233	.92
15	MP2C	Mx	.004	.92
16	MP2C	X	7.331	4.92
17	MP2C	Z	-4.233	4.92
18	MP2C	Mx	.004	4.92
19	MP2A	X	6.464	.92
20	MP2A	Z	-3.732	.92
21	MP2A	Mx	-.002	.92
22	MP2A	X	6.464	4.92
23	MP2A	Z	-3.732	4.92
24	MP2A	Mx	-.002	4.92
25	MP2B	X	6.464	.92
26	MP2B	Z	-3.732	.92
27	MP2B	Mx	.007	.92
28	MP2B	X	6.464	4.92
29	MP2B	Z	-3.732	4.92
30	MP2B	Mx	.007	4.92
31	MP2C	X	7.331	.92
32	MP2C	Z	-4.233	.92
33	MP2C	Mx	-.007	.92
34	MP2C	X	7.331	4.92
35	MP2C	Z	-4.233	4.92
36	MP2C	Mx	-.007	4.92
37	MP3A	X	1.806	1
38	MP3A	Z	-1.042	1
39	MP3A	Mx	-.001	1
40	MP3A	X	1.806	3
41	MP3A	Z	-1.042	3
42	MP3A	Mx	-.001	3
43	MP3B	X	1.806	1
44	MP3B	Z	-1.042	1
45	MP3B	Mx	.001	1
46	MP3B	X	1.806	3
47	MP3B	Z	-1.042	3
48	MP3B	Mx	.001	3
49	MP3C	X	3.482	1
50	MP3C	Z	-2.01	1
51	MP3C	Mx	-.000523	1
52	MP3C	X	3.482	3
53	MP3C	Z	-2.01	3
54	MP3C	Mx	-.000523	3
55	MP1A	X	2.116	3
56	MP1A	Z	-1.222	3
57	MP1A	Mx	.001	3



Company : Colliers Engineering & Design  
 Designer : ILR  
 Job Number : Project No. 10208046  
 Model Name : 5000243734-VZW\_MT\_LO\_H

Aug 1, 2023  
 4:42 PM  
 Checked By: DX

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1B	X	2.116	3
59	MP1B	Z	-1.222	3
60	MP1B	Mx	-.001	3
61	MP1C	X	2.781	3
62	MP1C	Z	-1.606	3
63	MP1C	Mx	.000279	3
64	MP2A	X	1.858	3
65	MP2A	Z	-1.073	3
66	MP2A	Mx	.000929	3
67	MP2B	X	1.858	3
68	MP2B	Z	-1.073	3
69	MP2B	Mx	-.000929	3
70	MP2C	X	2.771	3
71	MP2C	Z	-1.6	3
72	MP2C	Mx	.000278	3
73	OVP	X	4.712	1
74	OVP	Z	-2.721	1
75	OVP	Mx	0	1
76	MP1A	X	5.056	1
77	MP1A	Z	-2.919	1
78	MP1A	Mx	-.004	1
79	MP1A	X	5.056	3
80	MP1A	Z	-2.919	3
81	MP1A	Mx	-.004	3
82	MP1B	X	5.056	1
83	MP1B	Z	-2.919	1
84	MP1B	Mx	.004	1
85	MP1B	X	5.056	3
86	MP1B	Z	-2.919	3
87	MP1B	Mx	.004	3
88	MP1C	X	5.552	1
89	MP1C	Z	-3.206	1
90	MP1C	Mx	-.000835	1
91	MP1C	X	5.552	3
92	MP1C	Z	-3.206	3
93	MP1C	Mx	-.000835	3
94	MP4A	X	5.056	1
95	MP4A	Z	-2.919	1
96	MP4A	Mx	-.004	1
97	MP4A	X	5.056	3
98	MP4A	Z	-2.919	3
99	MP4A	Mx	-.004	3
100	MP4B	X	5.056	1
101	MP4B	Z	-2.919	1
102	MP4B	Mx	.004	1
103	MP4B	X	5.056	3
104	MP4B	Z	-2.919	3
105	MP4B	Mx	.004	3
106	MP4C	X	5.552	1
107	MP4C	Z	-3.206	1
108	MP4C	Mx	-.000835	1
109	MP4C	X	5.552	3
110	MP4C	Z	-3.206	3
111	MP4C	Mx	-.000835	3
112	MP2A	X	.872	5
113	MP2A	Z	-.503	5
114	MP2A	Mx	.000704	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
115	MP2A	X	.872	6
116	MP2A	Z	-.503	6
117	MP2A	Mx	.000704	6
118	MP2B	X	.872	5
119	MP2B	Z	-.503	5
120	MP2B	Mx	-.001	5
121	MP2B	X	.872	6
122	MP2B	Z	-.503	6
123	MP2B	Mx	-.001	6
124	MP2A	X	.872	5
125	MP2A	Z	-.503	5
126	MP2A	Mx	.001	5
127	MP2A	X	.872	6
128	MP2A	Z	-.503	6
129	MP2A	Mx	.001	6
130	MP2B	X	.872	5
131	MP2B	Z	-.503	5
132	MP2B	Mx	-.000704	5
133	MP2B	X	.872	6
134	MP2B	Z	-.503	6
135	MP2B	Mx	-.000704	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	7.116	.92
2	MP2A	Z	0	.92
3	MP2A	Mx	-.005	.92
4	MP2A	X	7.116	4.92
5	MP2A	Z	0	4.92
6	MP2A	Mx	-.005	4.92
7	MP2B	X	8.345	.92
8	MP2B	Z	0	.92
9	MP2B	Mx	.007	.92
10	MP2B	X	8.345	4.92
11	MP2B	Z	0	4.92
12	MP2B	Mx	.007	4.92
13	MP2C	X	8.345	.92
14	MP2C	Z	0	.92
15	MP2C	Mx	.007	.92
16	MP2C	X	8.345	4.92
17	MP2C	Z	0	4.92
18	MP2C	Mx	.007	4.92
19	MP2A	X	7.116	.92
20	MP2A	Z	0	.92
21	MP2A	Mx	-.005	.92
22	MP2A	X	7.116	4.92
23	MP2A	Z	0	4.92
24	MP2A	Mx	-.005	4.92
25	MP2B	X	8.159	.92
26	MP2B	Z	0	.92
27	MP2B	Mx	.008	.92
28	MP2B	X	8.159	4.92
29	MP2B	Z	0	4.92
30	MP2B	Mx	.008	4.92
31	MP2C	X	8.345	.92
32	MP2C	Z	0	.92





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP2C	Mx	-0.003	.92
34	MP2C	X	8.345	4.92
35	MP2C	Z	0	4.92
36	MP2C	Mx	-0.003	4.92
37	MP3A	X	1.413	1
38	MP3A	Z	0	1
39	MP3A	Mx	-0.001	1
40	MP3A	X	1.413	3
41	MP3A	Z	0	3
42	MP3A	Mx	-0.001	3
43	MP3B	X	3.43	1
44	MP3B	Z	0	1
45	MP3B	Mx	.001	1
46	MP3B	X	3.43	3
47	MP3B	Z	0	3
48	MP3B	Mx	.001	3
49	MP3C	X	3.787	1
50	MP3C	Z	0	1
51	MP3C	Mx	.000971	1
52	MP3C	X	3.787	3
53	MP3C	Z	0	3
54	MP3C	Mx	.000971	3
55	MP1A	X	2.177	3
56	MP1A	Z	0	3
57	MP1A	Mx	.001	3
58	MP1B	X	2.977	3
59	MP1B	Z	0	3
60	MP1B	Mx	-.000744	3
61	MP1C	X	3.119	3
62	MP1C	Z	0	3
63	MP1C	Mx	-.000533	3
64	MP2A	X	1.779	3
65	MP2A	Z	0	3
66	MP2A	Mx	.00089	3
67	MP2B	X	2.878	3
68	MP2B	Z	0	3
69	MP2B	Mx	-.00072	3
70	MP2C	X	3.073	3
71	MP2C	Z	0	3
72	MP2C	Mx	-.000526	3
73	OVP	X	5.044	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	5.639	1
77	MP1A	Z	0	1
78	MP1A	Mx	-.004	1
79	MP1A	X	5.639	3
80	MP1A	Z	0	3
81	MP1A	Mx	-.004	3
82	MP1B	X	6.236	1
83	MP1B	Z	0	1
84	MP1B	Mx	.002	1
85	MP1B	X	6.236	3
86	MP1B	Z	0	3
87	MP1B	Mx	.002	3
88	MP1C	X	6.342	1
89	MP1C	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
90	MP1C	Mx	.002	1
91	MP1C	X	6.342	3
92	MP1C	Z	0	3
93	MP1C	Mx	.002	3
94	MP4A	X	5.639	1
95	MP4A	Z	0	1
96	MP4A	Mx	-.004	1
97	MP4A	X	5.639	3
98	MP4A	Z	0	3
99	MP4A	Mx	-.004	3
100	MP4B	X	6.236	1
101	MP4B	Z	0	1
102	MP4B	Mx	.002	1
103	MP4B	X	6.236	3
104	MP4B	Z	0	3
105	MP4B	Mx	.002	3
106	MP4C	X	6.342	1
107	MP4C	Z	0	1
108	MP4C	Mx	.002	1
109	MP4C	X	6.342	3
110	MP4C	Z	0	3
111	MP4C	Mx	.002	3
112	MP2A	X	1.008	5
113	MP2A	Z	0	5
114	MP2A	Mx	.001	5
115	MP2A	X	1.008	6
116	MP2A	Z	0	6
117	MP2A	Mx	.001	6
118	MP2B	X	1.005	5
119	MP2B	Z	0	5
120	MP2B	Mx	-.000793	5
121	MP2B	X	1.005	6
122	MP2B	Z	0	6
123	MP2B	Mx	-.000793	6
124	MP2A	X	1.008	5
125	MP2A	Z	0	5
126	MP2A	Mx	.001	5
127	MP2A	X	1.008	6
128	MP2A	Z	0	6
129	MP2A	Mx	.001	6
130	MP2B	X	1.005	5
131	MP2B	Z	0	5
132	MP2B	Mx	-.000212	5
133	MP2B	X	1.005	6
134	MP2B	Z	0	6
135	MP2B	Mx	-.000212	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	6.464	.92
2	MP2A	Z	3.732	.92
3	MP2A	Mx	-.002	.92
4	MP2A	X	6.464	4.92
5	MP2A	Z	3.732	4.92
6	MP2A	Mx	-.002	4.92
7	MP2B	X	6.66	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
8	MP2B	Z	3.845	.92
9	MP2B	Mx	.008	.92
10	MP2B	X	6.66	4.92
11	MP2B	Z	3.845	4.92
12	MP2B	Mx	.008	4.92
13	MP2C	X	6.66	.92
14	MP2C	Z	3.845	.92
15	MP2C	Mx	.008	.92
16	MP2C	X	6.66	4.92
17	MP2C	Z	3.845	4.92
18	MP2C	Mx	.008	4.92
19	MP2A	X	6.464	.92
20	MP2A	Z	3.732	.92
21	MP2A	Mx	-.007	.92
22	MP2A	X	6.464	4.92
23	MP2A	Z	3.732	4.92
24	MP2A	Mx	-.007	4.92
25	MP2B	X	7.368	.92
26	MP2B	Z	4.254	.92
27	MP2B	Mx	.006	.92
28	MP2B	X	7.368	4.92
29	MP2B	Z	4.254	4.92
30	MP2B	Mx	.006	4.92
31	MP2C	X	6.66	.92
32	MP2C	Z	3.845	.92
33	MP2C	Mx	.001	.92
34	MP2C	X	6.66	4.92
35	MP2C	Z	3.845	4.92
36	MP2C	Mx	.001	4.92
37	MP3A	X	1.806	1
38	MP3A	Z	1.042	1
39	MP3A	Mx	-.001	1
40	MP3A	X	1.806	3
41	MP3A	Z	1.042	3
42	MP3A	Mx	-.001	3
43	MP3B	X	3.552	1
44	MP3B	Z	2.051	1
45	MP3B	Mx	0	1
46	MP3B	X	3.552	3
47	MP3B	Z	2.051	3
48	MP3B	Mx	0	3
49	MP3C	X	2.186	1
50	MP3C	Z	1.262	1
51	MP3C	Mx	.001	1
52	MP3C	X	2.186	3
53	MP3C	Z	1.262	3
54	MP3C	Mx	.001	3
55	MP1A	X	2.116	3
56	MP1A	Z	1.222	3
57	MP1A	Mx	.001	3
58	MP1B	X	2.809	3
59	MP1B	Z	1.622	3
60	MP1B	Mx	0	3
61	MP1C	X	2.267	3
62	MP1C	Z	1.309	3
63	MP1C	Mx	-.001	3
64	MP2A	X	1.858	3



Company : Colliers Engineering & Design  
 Designer : ILR  
 Job Number : Project No. 10208046  
 Model Name : 5000243734-VZW\_MT\_LO\_H

Aug 1, 2023  
 4:42 PM  
 Checked By: DX

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
65	MP2A	Z	1.073	3
66	MP2A	Mx	.000929	3
67	MP2B	X	2.809	3
68	MP2B	Z	1.622	3
69	MP2B	Mx	0	3
70	MP2C	X	2.065	3
71	MP2C	Z	1.192	3
72	MP2C	Mx	-.000913	3
73	OVP	X	4.712	1
74	OVP	Z	2.721	1
75	OVP	Mx	0	1
76	MP1A	X	5.056	1
77	MP1A	Z	2.919	1
78	MP1A	Mx	-.004	1
79	MP1A	X	5.056	3
80	MP1A	Z	2.919	3
81	MP1A	Mx	-.004	3
82	MP1B	X	5.573	1
83	MP1B	Z	3.218	1
84	MP1B	Mx	0	1
85	MP1B	X	5.573	3
86	MP1B	Z	3.218	3
87	MP1B	Mx	0	3
88	MP1C	X	5.168	1
89	MP1C	Z	2.984	1
90	MP1C	Mx	.003	1
91	MP1C	X	5.168	3
92	MP1C	Z	2.984	3
93	MP1C	Mx	.003	3
94	MP4A	X	5.056	1
95	MP4A	Z	2.919	1
96	MP4A	Mx	-.004	1
97	MP4A	X	5.056	3
98	MP4A	Z	2.919	3
99	MP4A	Mx	-.004	3
100	MP4B	X	5.573	1
101	MP4B	Z	3.218	1
102	MP4B	Mx	0	1
103	MP4B	X	5.573	3
104	MP4B	Z	3.218	3
105	MP4B	Mx	0	3
106	MP4C	X	5.168	1
107	MP4C	Z	2.984	1
108	MP4C	Mx	.003	1
109	MP4C	X	5.168	3
110	MP4C	Z	2.984	3
111	MP4C	Mx	.003	3
112	MP2A	X	.872	5
113	MP2A	Z	.503	5
114	MP2A	Mx	.001	5
115	MP2A	X	.872	6
116	MP2A	Z	.503	6
117	MP2A	Mx	.001	6
118	MP2B	X	.87	5
119	MP2B	Z	.502	5
120	MP2B	Mx	-.000335	5
121	MP2B	X	.87	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
122	MP2B	Z	.502	6
123	MP2B	Mx	-.000335	6
124	MP2A	X	.872	5
125	MP2A	Z	.503	5
126	MP2A	Mx	.000704	5
127	MP2A	X	.872	6
128	MP2A	Z	.503	6
129	MP2A	Mx	.000704	6
130	MP2B	X	.87	5
131	MP2B	Z	.502	5
132	MP2B	Mx	.000335	5
133	MP2B	X	.87	6
134	MP2B	Z	.502	6
135	MP2B	Mx	.000335	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.08	.92
2	MP2A	Z	7.066	.92
3	MP2A	Mx	.002	.92
4	MP2A	X	4.08	4.92
5	MP2A	Z	7.066	4.92
6	MP2A	Mx	.002	4.92
7	MP2B	X	3.579	.92
8	MP2B	Z	6.199	.92
9	MP2B	Mx	.006	.92
10	MP2B	X	3.579	4.92
11	MP2B	Z	6.199	4.92
12	MP2B	Mx	.006	4.92
13	MP2C	X	3.579	.92
14	MP2C	Z	6.199	.92
15	MP2C	Mx	.006	.92
16	MP2C	X	3.579	4.92
17	MP2C	Z	6.199	4.92
18	MP2C	Mx	.006	4.92
19	MP2A	X	4.08	.92
20	MP2A	Z	7.066	.92
21	MP2A	Mx	-.008	.92
22	MP2A	X	4.08	4.92
23	MP2A	Z	7.066	4.92
24	MP2A	Mx	-.008	4.92
25	MP2B	X	4.08	.92
26	MP2B	Z	7.066	.92
27	MP2B	Mx	.002	.92
28	MP2B	X	4.08	4.92
29	MP2B	Z	7.066	4.92
30	MP2B	Mx	.002	4.92
31	MP2C	X	3.579	.92
32	MP2C	Z	6.199	.92
33	MP2C	Mx	.004	.92
34	MP2C	X	3.579	4.92
35	MP2C	Z	6.199	4.92
36	MP2C	Mx	.004	4.92
37	MP3A	X	1.715	1
38	MP3A	Z	2.97	1
39	MP3A	Mx	-.001	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
40	MP3A	X	1.715	3
41	MP3A	Z	2.97	3
42	MP3A	Mx	-.001	3
43	MP3B	X	1.715	1
44	MP3B	Z	2.97	1
45	MP3B	Mx	-.001	1
46	MP3B	X	1.715	3
47	MP3B	Z	2.97	3
48	MP3B	Mx	-.001	3
49	MP3C	X	.747	1
50	MP3C	Z	1.294	1
51	MP3C	Mx	.001	1
52	MP3C	X	.747	3
53	MP3C	Z	1.294	3
54	MP3C	Mx	.001	3
55	MP1A	X	1.489	3
56	MP1A	Z	2.578	3
57	MP1A	Mx	.000744	3
58	MP1B	X	1.489	3
59	MP1B	Z	2.578	3
60	MP1B	Mx	.000744	3
61	MP1C	X	1.104	3
62	MP1C	Z	1.913	3
63	MP1C	Mx	-.001	3
64	MP2A	X	1.439	3
65	MP2A	Z	2.492	3
66	MP2A	Mx	.00072	3
67	MP2B	X	1.439	3
68	MP2B	Z	2.492	3
69	MP2B	Mx	.000719	3
70	MP2C	X	.912	3
71	MP2C	Z	1.579	3
72	MP2C	Mx	-.000898	3
73	OVP	X	3.118	1
74	OVP	Z	5.401	1
75	OVP	Mx	0	1
76	MP1A	X	3.118	1
77	MP1A	Z	5.401	1
78	MP1A	Mx	-.002	1
79	MP1A	X	3.118	3
80	MP1A	Z	5.401	3
81	MP1A	Mx	-.002	3
82	MP1B	X	3.118	1
83	MP1B	Z	5.401	1
84	MP1B	Mx	-.002	1
85	MP1B	X	3.118	3
86	MP1B	Z	5.401	3
87	MP1B	Mx	-.002	3
88	MP1C	X	2.831	1
89	MP1C	Z	4.904	1
90	MP1C	Mx	.004	1
91	MP1C	X	2.831	3
92	MP1C	Z	4.904	3
93	MP1C	Mx	.004	3
94	MP4A	X	3.118	1
95	MP4A	Z	5.401	1
96	MP4A	Mx	-.002	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
97	MP4A	X	3.118	3
98	MP4A	Z	5.401	3
99	MP4A	Mx	-.002	3
100	MP4B	X	3.118	1
101	MP4B	Z	5.401	1
102	MP4B	Mx	-.002	1
103	MP4B	X	3.118	3
104	MP4B	Z	5.401	3
105	MP4B	Mx	-.002	3
106	MP4C	X	2.831	1
107	MP4C	Z	4.904	1
108	MP4C	Mx	.004	1
109	MP4C	X	2.831	3
110	MP4C	Z	4.904	3
111	MP4C	Mx	.004	3
112	MP2A	X	.503	5
113	MP2A	Z	.871	5
114	MP2A	Mx	.000793	5
115	MP2A	X	.503	6
116	MP2A	Z	.871	6
117	MP2A	Mx	.000793	6
118	MP2B	X	.503	5
119	MP2B	Z	.871	5
120	MP2B	Mx	.000212	5
121	MP2B	X	.503	6
122	MP2B	Z	.871	6
123	MP2B	Mx	.000212	6
124	MP2A	X	.503	5
125	MP2A	Z	.871	5
126	MP2A	Mx	.000213	5
127	MP2A	X	.503	6
128	MP2A	Z	.871	6
129	MP2A	Mx	.000213	6
130	MP2B	X	.503	5
131	MP2B	Z	.871	5
132	MP2B	Mx	.000793	5
133	MP2B	X	.503	6
134	MP2B	Z	.871	6
135	MP2B	Mx	.000793	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.92
2	MP2A	Z	8.507	.92
3	MP2A	Mx	.006	.92
4	MP2A	X	0	4.92
5	MP2A	Z	8.507	4.92
6	MP2A	Mx	.006	4.92
7	MP2B	X	0	.92
8	MP2B	Z	7.278	.92
9	MP2B	Mx	.003	.92
10	MP2B	X	0	4.92
11	MP2B	Z	7.278	4.92
12	MP2B	Mx	.003	4.92
13	MP2C	X	0	.92
14	MP2C	Z	7.278	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2C	Mx	.003	.92
16	MP2C	X	0	4.92
17	MP2C	Z	7.278	4.92
18	MP2C	Mx	.003	4.92
19	MP2A	X	0	.92
20	MP2A	Z	8.507	.92
21	MP2A	Mx	-.006	.92
22	MP2A	X	0	4.92
23	MP2A	Z	8.507	4.92
24	MP2A	Mx	-.006	4.92
25	MP2B	X	0	.92
26	MP2B	Z	7.464	.92
27	MP2B	Mx	-.002	.92
28	MP2B	X	0	4.92
29	MP2B	Z	7.464	4.92
30	MP2B	Mx	-.002	4.92
31	MP2C	X	0	.92
32	MP2C	Z	7.278	.92
33	MP2C	Mx	.007	.92
34	MP2C	X	0	4.92
35	MP2C	Z	7.278	4.92
36	MP2C	Mx	.007	4.92
37	MP3A	X	0	1
38	MP3A	Z	4.102	1
39	MP3A	Mx	0	1
40	MP3A	X	0	3
41	MP3A	Z	4.102	3
42	MP3A	Mx	0	3
43	MP3B	X	0	1
44	MP3B	Z	2.085	1
45	MP3B	Mx	-.001	1
46	MP3B	X	0	3
47	MP3B	Z	2.085	3
48	MP3B	Mx	-.001	3
49	MP3C	X	0	1
50	MP3C	Z	1.727	1
51	MP3C	Mx	.001	1
52	MP3C	X	0	3
53	MP3C	Z	1.727	3
54	MP3C	Mx	.001	3
55	MP1A	X	0	3
56	MP1A	Z	3.244	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	2.443	3
60	MP1B	Mx	.001	3
61	MP1C	X	0	3
62	MP1C	Z	2.301	3
63	MP1C	Mx	-.001	3
64	MP2A	X	0	3
65	MP2A	Z	3.244	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	2.145	3
69	MP2B	Mx	.000929	3
70	MP2C	X	0	3
71	MP2C	Z	1.95	3





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2C	Mx	-0.00916	3
73	OVP	X	0	1
74	OVP	Z	6.634	1
75	OVP	Mx	0	1
76	MP1A	X	0	1
77	MP1A	Z	6.435	1
78	MP1A	Mx	0	1
79	MP1A	X	0	3
80	MP1A	Z	6.435	3
81	MP1A	Mx	0	3
82	MP1B	X	0	1
83	MP1B	Z	5.838	1
84	MP1B	Mx	-0.004	1
85	MP1B	X	0	3
86	MP1B	Z	5.838	3
87	MP1B	Mx	-0.004	3
88	MP1C	X	0	1
89	MP1C	Z	5.732	1
90	MP1C	Mx	.004	1
91	MP1C	X	0	3
92	MP1C	Z	5.732	3
93	MP1C	Mx	.004	3
94	MP4A	X	0	1
95	MP4A	Z	6.435	1
96	MP4A	Mx	0	1
97	MP4A	X	0	3
98	MP4A	Z	6.435	3
99	MP4A	Mx	0	3
100	MP4B	X	0	1
101	MP4B	Z	5.838	1
102	MP4B	Mx	-0.004	1
103	MP4B	X	0	3
104	MP4B	Z	5.838	3
105	MP4B	Mx	-0.004	3
106	MP4C	X	0	1
107	MP4C	Z	5.732	1
108	MP4C	Mx	.004	1
109	MP4C	X	0	3
110	MP4C	Z	5.732	3
111	MP4C	Mx	.004	3
112	MP2A	X	0	5
113	MP2A	Z	1.005	5
114	MP2A	Mx	.000335	5
115	MP2A	X	0	6
116	MP2A	Z	1.005	6
117	MP2A	Mx	.000335	6
118	MP2B	X	0	5
119	MP2B	Z	1.007	5
120	MP2B	Mx	.000704	5
121	MP2B	X	0	6
122	MP2B	Z	1.007	6
123	MP2B	Mx	.000704	6
124	MP2A	X	0	5
125	MP2A	Z	1.005	5
126	MP2A	Mx	-0.00335	5
127	MP2A	X	0	6
128	MP2A	Z	1.005	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
129	MP2A	Mx	-0.00335	6
130	MP2B	X	0	5
131	MP2B	Z	1.007	5
132	MP2B	Mx	.001	5
133	MP2B	X	0	6
134	MP2B	Z	1.007	6
135	MP2B	Mx	.001	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-4.08	.92
2	MP2A	Z	7.066	.92
3	MP2A	Mx	.008	.92
4	MP2A	X	-4.08	4.92
5	MP2A	Z	7.066	4.92
6	MP2A	Mx	.008	4.92
7	MP2B	X	-3.966	.92
8	MP2B	Z	6.87	.92
9	MP2B	Mx	-.000227	.92
10	MP2B	X	-3.966	4.92
11	MP2B	Z	6.87	4.92
12	MP2B	Mx	-.000227	4.92
13	MP2C	X	-3.966	.92
14	MP2C	Z	6.87	.92
15	MP2C	Mx	-.000227	.92
16	MP2C	X	-3.966	4.92
17	MP2C	Z	6.87	4.92
18	MP2C	Mx	-.000227	4.92
19	MP2A	X	-4.08	.92
20	MP2A	Z	7.066	.92
21	MP2A	Mx	-.002	.92
22	MP2A	X	-4.08	4.92
23	MP2A	Z	7.066	4.92
24	MP2A	Mx	-.002	4.92
25	MP2B	X	-3.558	.92
26	MP2B	Z	6.162	.92
27	MP2B	Mx	-.005	.92
28	MP2B	X	-3.558	4.92
29	MP2B	Z	6.162	4.92
30	MP2B	Mx	-.005	4.92
31	MP2C	X	-3.966	.92
32	MP2C	Z	6.87	.92
33	MP2C	Mx	.008	.92
34	MP2C	X	-3.966	4.92
35	MP2C	Z	6.87	4.92
36	MP2C	Mx	.008	4.92
37	MP3A	X	-1.715	1
38	MP3A	Z	2.97	1
39	MP3A	Mx	.001	1
40	MP3A	X	-1.715	3
41	MP3A	Z	2.97	3
42	MP3A	Mx	.001	3
43	MP3B	X	-.706	1
44	MP3B	Z	1.223	1
45	MP3B	Mx	-.001	1
46	MP3B	X	-.706	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
47	MP3B	Z	1.223	3
48	MP3B	Mx	-0.001	3
49	MP3C	X	-1.495	1
50	MP3C	Z	2.59	1
51	MP3C	Mx	.001	1
52	MP3C	X	-1.495	3
53	MP3C	Z	2.59	3
54	MP3C	Mx	.001	3
55	MP1A	X	-1.489	3
56	MP1A	Z	2.578	3
57	MP1A	Mx	-0.00744	3
58	MP1B	X	-1.088	3
59	MP1B	Z	1.885	3
60	MP1B	Mx	.001	3
61	MP1C	X	-1.401	3
62	MP1C	Z	2.427	3
63	MP1C	Mx	-0.00901	3
64	MP2A	X	-1.439	3
65	MP2A	Z	2.492	3
66	MP2A	Mx	-0.0072	3
67	MP2B	X	-0.889	3
68	MP2B	Z	1.541	3
69	MP2B	Mx	.00089	3
70	MP2C	X	-1.319	3
71	MP2C	Z	2.285	3
72	MP2C	Mx	-0.00848	3
73	OVP	X	-3.118	1
74	OVP	Z	5.401	1
75	OVP	Mx	0	1
76	MP1A	X	-3.118	1
77	MP1A	Z	5.401	1
78	MP1A	Mx	.002	1
79	MP1A	X	-3.118	3
80	MP1A	Z	5.401	3
81	MP1A	Mx	.002	3
82	MP1B	X	-2.819	1
83	MP1B	Z	4.883	1
84	MP1B	Mx	-0.004	1
85	MP1B	X	-2.819	3
86	MP1B	Z	4.883	3
87	MP1B	Mx	-0.004	3
88	MP1C	X	-3.053	1
89	MP1C	Z	5.288	1
90	MP1C	Mx	.003	1
91	MP1C	X	-3.053	3
92	MP1C	Z	5.288	3
93	MP1C	Mx	.003	3
94	MP4A	X	-3.118	1
95	MP4A	Z	5.401	1
96	MP4A	Mx	.002	1
97	MP4A	X	-3.118	3
98	MP4A	Z	5.401	3
99	MP4A	Mx	.002	3
100	MP4B	X	-2.819	1
101	MP4B	Z	4.883	1
102	MP4B	Mx	-0.004	1
103	MP4B	X	-2.819	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
104	MP4B	Z	4.883	3
105	MP4B	Mx	-0.004	3
106	MP4C	X	-3.053	1
107	MP4C	Z	5.288	1
108	MP4C	Mx	.003	1
109	MP4C	X	-3.053	3
110	MP4C	Z	5.288	3
111	MP4C	Mx	.003	3
112	MP2A	X	-.503	5
113	MP2A	Z	.871	5
114	MP2A	Mx	-.000213	5
115	MP2A	X	-.503	6
116	MP2A	Z	.871	6
117	MP2A	Mx	-.000213	6
118	MP2B	X	-.504	5
119	MP2B	Z	.873	5
120	MP2B	Mx	.001	5
121	MP2B	X	-.504	6
122	MP2B	Z	.873	6
123	MP2B	Mx	.001	6
124	MP2A	X	-.503	5
125	MP2A	Z	.871	5
126	MP2A	Mx	-.000793	5
127	MP2A	X	-.503	6
128	MP2A	Z	.871	6
129	MP2A	Mx	-.000793	6
130	MP2B	X	-.504	5
131	MP2B	Z	.873	5
132	MP2B	Mx	.001	5
133	MP2B	X	-.504	6
134	MP2B	Z	.873	6
135	MP2B	Mx	.001	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-6.464	.92
2	MP2A	Z	3.732	.92
3	MP2A	Mx	.007	.92
4	MP2A	X	-6.464	4.92
5	MP2A	Z	3.732	4.92
6	MP2A	Mx	.007	4.92
7	MP2B	X	-7.331	.92
8	MP2B	Z	4.233	.92
9	MP2B	Mx	-.004	.92
10	MP2B	X	-7.331	4.92
11	MP2B	Z	4.233	4.92
12	MP2B	Mx	-.004	4.92
13	MP2C	X	-7.331	.92
14	MP2C	Z	4.233	.92
15	MP2C	Mx	-.004	.92
16	MP2C	X	-7.331	4.92
17	MP2C	Z	4.233	4.92
18	MP2C	Mx	-.004	4.92
19	MP2A	X	-6.464	.92
20	MP2A	Z	3.732	.92
21	MP2A	Mx	.002	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
22	MP2A	X	-6.464	4.92
23	MP2A	Z	3.732	4.92
24	MP2A	Mx	.002	4.92
25	MP2B	X	-6.464	.92
26	MP2B	Z	3.732	.92
27	MP2B	Mx	-.007	.92
28	MP2B	X	-6.464	4.92
29	MP2B	Z	3.732	4.92
30	MP2B	Mx	-.007	4.92
31	MP2C	X	-7.331	.92
32	MP2C	Z	4.233	.92
33	MP2C	Mx	.007	.92
34	MP2C	X	-7.331	4.92
35	MP2C	Z	4.233	4.92
36	MP2C	Mx	.007	4.92
37	MP3A	X	-1.806	1
38	MP3A	Z	1.042	1
39	MP3A	Mx	.001	1
40	MP3A	X	-1.806	3
41	MP3A	Z	1.042	3
42	MP3A	Mx	.001	3
43	MP3B	X	-1.806	1
44	MP3B	Z	1.042	1
45	MP3B	Mx	-.001	1
46	MP3B	X	-1.806	3
47	MP3B	Z	1.042	3
48	MP3B	Mx	-.001	3
49	MP3C	X	-3.482	1
50	MP3C	Z	2.01	1
51	MP3C	Mx	.000523	1
52	MP3C	X	-3.482	3
53	MP3C	Z	2.01	3
54	MP3C	Mx	.000523	3
55	MP1A	X	-2.116	3
56	MP1A	Z	1.222	3
57	MP1A	Mx	-.001	3
58	MP1B	X	-2.116	3
59	MP1B	Z	1.222	3
60	MP1B	Mx	.001	3
61	MP1C	X	-2.781	3
62	MP1C	Z	1.606	3
63	MP1C	Mx	-.000279	3
64	MP2A	X	-1.858	3
65	MP2A	Z	1.073	3
66	MP2A	Mx	-.000929	3
67	MP2B	X	-1.858	3
68	MP2B	Z	1.073	3
69	MP2B	Mx	.000929	3
70	MP2C	X	-2.771	3
71	MP2C	Z	1.6	3
72	MP2C	Mx	-.000278	3
73	OVP	X	-4.712	1
74	OVP	Z	2.721	1
75	OVP	Mx	0	1
76	MP1A	X	-5.056	1
77	MP1A	Z	2.919	1
78	MP1A	Mx	.004	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
79	MP1A	X	-5.056	3
80	MP1A	Z	2.919	3
81	MP1A	Mx	.004	3
82	MP1B	X	-5.056	1
83	MP1B	Z	2.919	1
84	MP1B	Mx	-.004	1
85	MP1B	X	-5.056	3
86	MP1B	Z	2.919	3
87	MP1B	Mx	-.004	3
88	MP1C	X	-5.552	1
89	MP1C	Z	3.206	1
90	MP1C	Mx	.000835	1
91	MP1C	X	-5.552	3
92	MP1C	Z	3.206	3
93	MP1C	Mx	.000835	3
94	MP4A	X	-5.056	1
95	MP4A	Z	2.919	1
96	MP4A	Mx	.004	1
97	MP4A	X	-5.056	3
98	MP4A	Z	2.919	3
99	MP4A	Mx	.004	3
100	MP4B	X	-5.056	1
101	MP4B	Z	2.919	1
102	MP4B	Mx	-.004	1
103	MP4B	X	-5.056	3
104	MP4B	Z	2.919	3
105	MP4B	Mx	-.004	3
106	MP4C	X	-5.552	1
107	MP4C	Z	3.206	1
108	MP4C	Mx	.000835	1
109	MP4C	X	-5.552	3
110	MP4C	Z	3.206	3
111	MP4C	Mx	.000835	3
112	MP2A	X	-.872	5
113	MP2A	Z	.503	5
114	MP2A	Mx	-.000704	5
115	MP2A	X	-.872	6
116	MP2A	Z	.503	6
117	MP2A	Mx	-.000704	6
118	MP2B	X	-.872	5
119	MP2B	Z	.503	5
120	MP2B	Mx	.001	5
121	MP2B	X	-.872	6
122	MP2B	Z	.503	6
123	MP2B	Mx	.001	6
124	MP2A	X	-.872	5
125	MP2A	Z	.503	5
126	MP2A	Mx	-.001	5
127	MP2A	X	-.872	6
128	MP2A	Z	.503	6
129	MP2A	Mx	-.001	6
130	MP2B	X	-.872	5
131	MP2B	Z	.503	5
132	MP2B	Mx	.000704	5
133	MP2B	X	-.872	6
134	MP2B	Z	.503	6
135	MP2B	Mx	.000704	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-7.116	.92
2	MP2A	Z	0	.92
3	MP2A	Mx	.005	.92
4	MP2A	X	-7.116	4.92
5	MP2A	Z	0	4.92
6	MP2A	Mx	.005	4.92
7	MP2B	X	-8.345	.92
8	MP2B	Z	0	.92
9	MP2B	Mx	-.007	.92
10	MP2B	X	-8.345	4.92
11	MP2B	Z	0	4.92
12	MP2B	Mx	-.007	4.92
13	MP2C	X	-8.345	.92
14	MP2C	Z	0	.92
15	MP2C	Mx	-.007	.92
16	MP2C	X	-8.345	4.92
17	MP2C	Z	0	4.92
18	MP2C	Mx	-.007	4.92
19	MP2A	X	-7.116	.92
20	MP2A	Z	0	.92
21	MP2A	Mx	.005	.92
22	MP2A	X	-7.116	4.92
23	MP2A	Z	0	4.92
24	MP2A	Mx	.005	4.92
25	MP2B	X	-8.159	.92
26	MP2B	Z	0	.92
27	MP2B	Mx	-.008	.92
28	MP2B	X	-8.159	4.92
29	MP2B	Z	0	4.92
30	MP2B	Mx	-.008	4.92
31	MP2C	X	-8.345	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	.003	.92
34	MP2C	X	-8.345	4.92
35	MP2C	Z	0	4.92
36	MP2C	Mx	.003	4.92
37	MP3A	X	-1.413	1
38	MP3A	Z	0	1
39	MP3A	Mx	.001	1
40	MP3A	X	-1.413	3
41	MP3A	Z	0	3
42	MP3A	Mx	.001	3
43	MP3B	X	-3.43	1
44	MP3B	Z	0	1
45	MP3B	Mx	-.001	1
46	MP3B	X	-3.43	3
47	MP3B	Z	0	3
48	MP3B	Mx	-.001	3
49	MP3C	X	-3.787	1
50	MP3C	Z	0	1
51	MP3C	Mx	-.000971	1
52	MP3C	X	-3.787	3
53	MP3C	Z	0	3
54	MP3C	Mx	-.000971	3
55	MP1A	X	-2.177	3
56	MP1A	Z	0	3
57	MP1A	Mx	-.001	3

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1B	X	-2.977	3
59	MP1B	Z	0	3
60	MP1B	Mx	.000744	3
61	MP1C	X	-3.119	3
62	MP1C	Z	0	3
63	MP1C	Mx	.000533	3
64	MP2A	X	-1.779	3
65	MP2A	Z	0	3
66	MP2A	Mx	-.00089	3
67	MP2B	X	-2.878	3
68	MP2B	Z	0	3
69	MP2B	Mx	.00072	3
70	MP2C	X	-3.073	3
71	MP2C	Z	0	3
72	MP2C	Mx	.000526	3
73	OVP	X	-5.044	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-5.639	1
77	MP1A	Z	0	1
78	MP1A	Mx	.004	1
79	MP1A	X	-5.639	3
80	MP1A	Z	0	3
81	MP1A	Mx	.004	3
82	MP1B	X	-6.236	1
83	MP1B	Z	0	1
84	MP1B	Mx	-.002	1
85	MP1B	X	-6.236	3
86	MP1B	Z	0	3
87	MP1B	Mx	-.002	3
88	MP1C	X	-6.342	1
89	MP1C	Z	0	1
90	MP1C	Mx	-.002	1
91	MP1C	X	-6.342	3
92	MP1C	Z	0	3
93	MP1C	Mx	-.002	3
94	MP4A	X	-5.639	1
95	MP4A	Z	0	1
96	MP4A	Mx	.004	1
97	MP4A	X	-5.639	3
98	MP4A	Z	0	3
99	MP4A	Mx	.004	3
100	MP4B	X	-6.236	1
101	MP4B	Z	0	1
102	MP4B	Mx	-.002	1
103	MP4B	X	-6.236	3
104	MP4B	Z	0	3
105	MP4B	Mx	-.002	3
106	MP4C	X	-6.342	1
107	MP4C	Z	0	1
108	MP4C	Mx	-.002	1
109	MP4C	X	-6.342	3
110	MP4C	Z	0	3
111	MP4C	Mx	-.002	3
112	MP2A	X	-1.008	5
113	MP2A	Z	0	5
114	MP2A	Mx	-.001	5





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

	Member Label	Direction	Magnitude[ <u>lb.k-ft</u> ]	Location[ <u>ft.%</u> ]
115	MP2A	X	-1.008	6
116	MP2A	Z	0	6
117	MP2A	Mx	-.001	6
118	MP2B	X	-1.005	5
119	MP2B	Z	0	5
120	MP2B	Mx	.000793	5
121	MP2B	X	-1.005	6
122	MP2B	Z	0	6
123	MP2B	Mx	.000793	6
124	MP2A	X	-1.008	5
125	MP2A	Z	0	5
126	MP2A	Mx	-.001	5
127	MP2A	X	-1.008	6
128	MP2A	Z	0	6
129	MP2A	Mx	-.001	6
130	MP2B	X	-1.005	5
131	MP2B	Z	0	5
132	MP2B	Mx	.000212	5
133	MP2B	X	-1.005	6
134	MP2B	Z	0	6
135	MP2B	Mx	.000212	6

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

	Member Label	Direction	Magnitude[ <u>lb.k-ft</u> ]	Location[ <u>ft.%</u> ]
1	MP2A	X	-6.464	.92
2	MP2A	Z	-3.732	.92
3	MP2A	Mx	.002	.92
4	MP2A	X	-6.464	4.92
5	MP2A	Z	-3.732	4.92
6	MP2A	Mx	.002	4.92
7	MP2B	X	-6.66	.92
8	MP2B	Z	-3.845	.92
9	MP2B	Mx	-.008	.92
10	MP2B	X	-6.66	4.92
11	MP2B	Z	-3.845	4.92
12	MP2B	Mx	-.008	4.92
13	MP2C	X	-6.66	.92
14	MP2C	Z	-3.845	.92
15	MP2C	Mx	-.008	.92
16	MP2C	X	-6.66	4.92
17	MP2C	Z	-3.845	4.92
18	MP2C	Mx	-.008	4.92
19	MP2A	X	-6.464	.92
20	MP2A	Z	-3.732	.92
21	MP2A	Mx	.007	.92
22	MP2A	X	-6.464	4.92
23	MP2A	Z	-3.732	4.92
24	MP2A	Mx	.007	4.92
25	MP2B	X	-7.368	.92
26	MP2B	Z	-4.254	.92
27	MP2B	Mx	-.006	.92
28	MP2B	X	-7.368	4.92
29	MP2B	Z	-4.254	4.92
30	MP2B	Mx	-.006	4.92
31	MP2C	X	-6.66	.92
32	MP2C	Z	-3.845	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP2C	Mx	-0.001	.92
34	MP2C	X	-6.66	4.92
35	MP2C	Z	-3.845	4.92
36	MP2C	Mx	-0.001	4.92
37	MP3A	X	-1.806	1
38	MP3A	Z	-1.042	1
39	MP3A	Mx	.001	1
40	MP3A	X	-1.806	3
41	MP3A	Z	-1.042	3
42	MP3A	Mx	.001	3
43	MP3B	X	-3.552	1
44	MP3B	Z	-2.051	1
45	MP3B	Mx	0	1
46	MP3B	X	-3.552	3
47	MP3B	Z	-2.051	3
48	MP3B	Mx	0	3
49	MP3C	X	-2.186	1
50	MP3C	Z	-1.262	1
51	MP3C	Mx	-0.001	1
52	MP3C	X	-2.186	3
53	MP3C	Z	-1.262	3
54	MP3C	Mx	-0.001	3
55	MP1A	X	-2.116	3
56	MP1A	Z	-1.222	3
57	MP1A	Mx	-0.001	3
58	MP1B	X	-2.809	3
59	MP1B	Z	-1.622	3
60	MP1B	Mx	0	3
61	MP1C	X	-2.267	3
62	MP1C	Z	-1.309	3
63	MP1C	Mx	.001	3
64	MP2A	X	-1.858	3
65	MP2A	Z	-1.073	3
66	MP2A	Mx	-.000929	3
67	MP2B	X	-2.809	3
68	MP2B	Z	-1.622	3
69	MP2B	Mx	0	3
70	MP2C	X	-2.065	3
71	MP2C	Z	-1.192	3
72	MP2C	Mx	.000913	3
73	OVP	X	-4.712	1
74	OVP	Z	-2.721	1
75	OVP	Mx	0	1
76	MP1A	X	-5.056	1
77	MP1A	Z	-2.919	1
78	MP1A	Mx	.004	1
79	MP1A	X	-5.056	3
80	MP1A	Z	-2.919	3
81	MP1A	Mx	.004	3
82	MP1B	X	-5.573	1
83	MP1B	Z	-3.218	1
84	MP1B	Mx	0	1
85	MP1B	X	-5.573	3
86	MP1B	Z	-3.218	3
87	MP1B	Mx	0	3
88	MP1C	X	-5.168	1
89	MP1C	Z	-2.984	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
90	MP1C	Mx	-0.003	1
91	MP1C	X	-5.168	3
92	MP1C	Z	-2.984	3
93	MP1C	Mx	-0.003	3
94	MP4A	X	-5.056	1
95	MP4A	Z	-2.919	1
96	MP4A	Mx	.004	1
97	MP4A	X	-5.056	3
98	MP4A	Z	-2.919	3
99	MP4A	Mx	.004	3
100	MP4B	X	-5.573	1
101	MP4B	Z	-3.218	1
102	MP4B	Mx	0	1
103	MP4B	X	-5.573	3
104	MP4B	Z	-3.218	3
105	MP4B	Mx	0	3
106	MP4C	X	-5.168	1
107	MP4C	Z	-2.984	1
108	MP4C	Mx	-0.003	1
109	MP4C	X	-5.168	3
110	MP4C	Z	-2.984	3
111	MP4C	Mx	-0.003	3
112	MP2A	X	-0.872	5
113	MP2A	Z	-0.503	5
114	MP2A	Mx	-0.001	5
115	MP2A	X	-0.872	6
116	MP2A	Z	-0.503	6
117	MP2A	Mx	-0.001	6
118	MP2B	X	-0.87	5
119	MP2B	Z	-0.502	5
120	MP2B	Mx	.000335	5
121	MP2B	X	-0.87	6
122	MP2B	Z	-0.502	6
123	MP2B	Mx	.000335	6
124	MP2A	X	-0.872	5
125	MP2A	Z	-0.503	5
126	MP2A	Mx	-0.000704	5
127	MP2A	X	-0.872	6
128	MP2A	Z	-0.503	6
129	MP2A	Mx	-0.000704	6
130	MP2B	X	-0.87	5
131	MP2B	Z	-0.502	5
132	MP2B	Mx	-0.000335	5
133	MP2B	X	-0.87	6
134	MP2B	Z	-0.502	6
135	MP2B	Mx	-0.000335	6

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-4.08	.92
2	MP2A	Z	-7.066	.92
3	MP2A	Mx	-0.002	.92
4	MP2A	X	-4.08	4.92
5	MP2A	Z	-7.066	4.92
6	MP2A	Mx	-0.002	4.92
7	MP2B	X	-3.579	.92



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
8	MP2B	Z	-6.199	.92
9	MP2B	Mx	-.006	.92
10	MP2B	X	-3.579	4.92
11	MP2B	Z	-6.199	4.92
12	MP2B	Mx	-.006	4.92
13	MP2C	X	-3.579	.92
14	MP2C	Z	-6.199	.92
15	MP2C	Mx	-.006	.92
16	MP2C	X	-3.579	4.92
17	MP2C	Z	-6.199	4.92
18	MP2C	Mx	-.006	4.92
19	MP2A	X	-4.08	.92
20	MP2A	Z	-7.066	.92
21	MP2A	Mx	.008	.92
22	MP2A	X	-4.08	4.92
23	MP2A	Z	-7.066	4.92
24	MP2A	Mx	.008	4.92
25	MP2B	X	-4.08	.92
26	MP2B	Z	-7.066	.92
27	MP2B	Mx	-.002	.92
28	MP2B	X	-4.08	4.92
29	MP2B	Z	-7.066	4.92
30	MP2B	Mx	-.002	4.92
31	MP2C	X	-3.579	.92
32	MP2C	Z	-6.199	.92
33	MP2C	Mx	-.004	.92
34	MP2C	X	-3.579	4.92
35	MP2C	Z	-6.199	4.92
36	MP2C	Mx	-.004	4.92
37	MP3A	X	-1.715	1
38	MP3A	Z	-2.97	1
39	MP3A	Mx	.001	1
40	MP3A	X	-1.715	3
41	MP3A	Z	-2.97	3
42	MP3A	Mx	.001	3
43	MP3B	X	-1.715	1
44	MP3B	Z	-2.97	1
45	MP3B	Mx	.001	1
46	MP3B	X	-1.715	3
47	MP3B	Z	-2.97	3
48	MP3B	Mx	.001	3
49	MP3C	X	-.747	1
50	MP3C	Z	-1.294	1
51	MP3C	Mx	-.001	1
52	MP3C	X	-.747	3
53	MP3C	Z	-1.294	3
54	MP3C	Mx	-.001	3
55	MP1A	X	-1.489	3
56	MP1A	Z	-2.578	3
57	MP1A	Mx	-.000744	3
58	MP1B	X	-1.489	3
59	MP1B	Z	-2.578	3
60	MP1B	Mx	-.000744	3
61	MP1C	X	-1.104	3
62	MP1C	Z	-1.913	3
63	MP1C	Mx	.001	3
64	MP2A	X	-1.439	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
65	MP2A	Z	-2.492	3
66	MP2A	Mx	-0.0072	3
67	MP2B	X	-1.439	3
68	MP2B	Z	-2.492	3
69	MP2B	Mx	-0.00719	3
70	MP2C	X	-.912	3
71	MP2C	Z	-1.579	3
72	MP2C	Mx	.000898	3
73	OVP	X	-3.118	1
74	OVP	Z	-5.401	1
75	OVP	Mx	0	1
76	MP1A	X	-3.118	1
77	MP1A	Z	-5.401	1
78	MP1A	Mx	.002	1
79	MP1A	X	-3.118	3
80	MP1A	Z	-5.401	3
81	MP1A	Mx	.002	3
82	MP1B	X	-3.118	1
83	MP1B	Z	-5.401	1
84	MP1B	Mx	.002	1
85	MP1B	X	-3.118	3
86	MP1B	Z	-5.401	3
87	MP1B	Mx	.002	3
88	MP1C	X	-2.831	1
89	MP1C	Z	-4.904	1
90	MP1C	Mx	-.004	1
91	MP1C	X	-2.831	3
92	MP1C	Z	-4.904	3
93	MP1C	Mx	-.004	3
94	MP4A	X	-3.118	1
95	MP4A	Z	-5.401	1
96	MP4A	Mx	.002	1
97	MP4A	X	-3.118	3
98	MP4A	Z	-5.401	3
99	MP4A	Mx	.002	3
100	MP4B	X	-3.118	1
101	MP4B	Z	-5.401	1
102	MP4B	Mx	.002	1
103	MP4B	X	-3.118	3
104	MP4B	Z	-5.401	3
105	MP4B	Mx	.002	3
106	MP4C	X	-2.831	1
107	MP4C	Z	-4.904	1
108	MP4C	Mx	-.004	1
109	MP4C	X	-2.831	3
110	MP4C	Z	-4.904	3
111	MP4C	Mx	-.004	3
112	MP2A	X	-.503	5
113	MP2A	Z	-.871	5
114	MP2A	Mx	-0.00793	5
115	MP2A	X	-.503	6
116	MP2A	Z	-.871	6
117	MP2A	Mx	-0.00793	6
118	MP2B	X	-.503	5
119	MP2B	Z	-.871	5
120	MP2B	Mx	-0.00212	5
121	MP2B	X	-.503	6



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
122	MP2B	Z	-871	6
123	MP2B	Mx	-0.00212	6
124	MP2A	X	-503	5
125	MP2A	Z	-871	5
126	MP2A	Mx	-0.00213	5
127	MP2A	X	-503	6
128	MP2A	Z	-871	6
129	MP2A	Mx	-0.00213	6
130	MP2B	X	-503	5
131	MP2B	Z	-871	5
132	MP2B	Mx	-0.00793	5
133	MP2B	X	-503	6
134	MP2B	Z	-871	6
135	MP2B	Mx	-0.00793	6

**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M68B	Y	-500	%24

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M68B	Y	-500	%3

**Member Point Loads (BLC 79 : Lv1)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M68B	Y	-250	0

**Member Point Loads (BLC 80 : Lv2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M68B	Y	-250	%50

**Member Point Loads (BLC 81 : Antenna Ev)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	Y	0	.92
2	MP2A	My	0	.92
3	MP2A	Mz	0	.92
4	MP2A	Y	0	4.92
5	MP2A	My	0	4.92
6	MP2A	Mz	0	4.92
7	MP2B	Y	0	.92
8	MP2B	My	0	.92
9	MP2B	Mz	0	.92
10	MP2B	Y	0	4.92
11	MP2B	My	0	4.92
12	MP2B	Mz	0	4.92
13	MP2C	Y	0	.92
14	MP2C	My	0	.92
15	MP2C	Mz	0	.92
16	MP2C	Y	0	4.92
17	MP2C	My	0	4.92
18	MP2C	Mz	0	4.92
19	MP2A	Y	0	.92
20	MP2A	My	0	.92
21	MP2A	Mz	0	.92



**Member Point Loads (BLC 81 : Antenna Ev) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
22	MP2A	Y	0	4.92
23	MP2A	My	0	4.92
24	MP2A	Mz	0	4.92
25	MP2B	Y	0	.92
26	MP2B	My	0	.92
27	MP2B	Mz	0	.92
28	MP2B	Y	0	4.92
29	MP2B	My	0	4.92
30	MP2B	Mz	0	4.92
31	MP2C	Y	0	.92
32	MP2C	My	0	.92
33	MP2C	Mz	0	.92
34	MP2C	Y	0	4.92
35	MP2C	My	0	4.92
36	MP2C	Mz	0	4.92
37	MP3A	Y	0	1
38	MP3A	My	0	1
39	MP3A	Mz	0	1
40	MP3A	Y	0	3
41	MP3A	My	0	3
42	MP3A	Mz	0	3
43	MP3B	Y	0	1
44	MP3B	My	0	1
45	MP3B	Mz	0	1
46	MP3B	Y	0	3
47	MP3B	My	0	3
48	MP3B	Mz	0	3
49	MP3C	Y	0	1
50	MP3C	My	0	1
51	MP3C	Mz	0	1
52	MP3C	Y	0	3
53	MP3C	My	0	3
54	MP3C	Mz	0	3
55	MP1A	Y	0	3
56	MP1A	My	0	3
57	MP1A	Mz	0	3
58	MP1B	Y	0	3
59	MP1B	My	0	3
60	MP1B	Mz	0	3
61	MP1C	Y	0	3
62	MP1C	My	0	3
63	MP1C	Mz	0	3
64	MP2A	Y	0	3
65	MP2A	My	0	3
66	MP2A	Mz	0	3
67	MP2B	Y	0	3
68	MP2B	My	0	3
69	MP2B	Mz	0	3
70	MP2C	Y	0	3
71	MP2C	My	0	3
72	MP2C	Mz	0	3
73	OVP	Y	0	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	0	1
77	MP1A	My	0	1
78	MP1A	Mz	0	1



**Member Point Loads (BLC 81 : Antenna Ev) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
79	MP1A	Y	0	3
80	MP1A	My	0	3
81	MP1A	Mz	0	3
82	MP1B	Y	0	1
83	MP1B	My	0	1
84	MP1B	Mz	0	1
85	MP1B	Y	0	3
86	MP1B	My	0	3
87	MP1B	Mz	0	3
88	MP1C	Y	0	1
89	MP1C	My	0	1
90	MP1C	Mz	0	1
91	MP1C	Y	0	3
92	MP1C	My	0	3
93	MP1C	Mz	0	3
94	MP4A	Y	0	1
95	MP4A	My	0	1
96	MP4A	Mz	0	1
97	MP4A	Y	0	3
98	MP4A	My	0	3
99	MP4A	Mz	0	3
100	MP4B	Y	0	1
101	MP4B	My	0	1
102	MP4B	Mz	0	1
103	MP4B	Y	0	3
104	MP4B	My	0	3
105	MP4B	Mz	0	3
106	MP4C	Y	0	1
107	MP4C	My	0	1
108	MP4C	Mz	0	1
109	MP4C	Y	0	3
110	MP4C	My	0	3
111	MP4C	Mz	0	3
112	MP2A	Y	0	5
113	MP2A	My	0	5
114	MP2A	Mz	0	5
115	MP2A	Y	0	6
116	MP2A	My	0	6
117	MP2A	Mz	0	6
118	MP2B	Y	0	5
119	MP2B	My	0	5
120	MP2B	Mz	0	5
121	MP2B	Y	0	6
122	MP2B	My	0	6
123	MP2B	Mz	0	6
124	MP2A	Y	0	5
125	MP2A	My	0	5
126	MP2A	Mz	0	5
127	MP2A	Y	0	6
128	MP2A	My	0	6
129	MP2A	Mz	0	6
130	MP2B	Y	0	5
131	MP2B	My	0	5
132	MP2B	Mz	0	5
133	MP2B	Y	0	6
134	MP2B	My	0	6
135	MP2B	Mz	0	6





**Member Point Loads (BLC 82 : Antenna Eh (0 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Z	-.975	.92
2	MP2A	Mx	-.00065	.92
3	MP2A	Z	-.975	4.92
4	MP2A	Mx	-.00065	4.92
5	MP2B	Z	-.975	.92
6	MP2B	Mx	-.000465	.92
7	MP2B	Z	-.975	4.92
8	MP2B	Mx	-.000465	4.92
9	MP2C	Z	-.975	.92
10	MP2C	Mx	-.000465	.92
11	MP2C	Z	-.975	4.92
12	MP2C	Mx	-.000465	4.92
13	MP2A	Z	-.975	.92
14	MP2A	Mx	.00065	.92
15	MP2A	Z	-.975	4.92
16	MP2A	Mx	.00065	4.92
17	MP2B	Z	-.975	.92
18	MP2B	Mx	.000308	.92
19	MP2B	Z	-.975	4.92
20	MP2B	Mx	.000308	4.92
21	MP2C	Z	-.975	.92
22	MP2C	Mx	-.000909	.92
23	MP2C	Z	-.975	4.92
24	MP2C	Mx	-.000909	4.92
25	MP3A	Z	-1.306	1
26	MP3A	Mx	0	1
27	MP3A	Z	-1.306	3
28	MP3A	Mx	0	3
29	MP3B	Z	-1.306	1
30	MP3B	Mx	.000849	1
31	MP3B	Z	-1.306	3
32	MP3B	Mx	.000849	3
33	MP3C	Z	-1.306	1
34	MP3C	Mx	-.000921	1
35	MP3C	Z	-1.306	3
36	MP3C	Mx	-.000921	3
37	MP1A	Z	-2.532	3
38	MP1A	Mx	0	3
39	MP1B	Z	-2.532	3
40	MP1B	Mx	-.001	3
41	MP1C	Z	-2.532	3
42	MP1C	Mx	.001	3
43	MP2A	Z	-2.109	3
44	MP2A	Mx	0	3
45	MP2B	Z	-2.109	3
46	MP2B	Mx	-.000913	3
47	MP2C	Z	-2.109	3
48	MP2C	Mx	.000991	3
49	OVP	Z	-.96	1
50	OVP	Mx	0	1
51	MP1A	Z	-.3	1
52	MP1A	Mx	0	1
53	MP1A	Z	-.3	3
54	MP1A	Mx	0	3
55	MP1B	Z	-.3	1
56	MP1B	Mx	.000195	1
57	MP1B	Z	-.3	3



**Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1B	Mx	.000195	3
59	MP1C	Z	-.3	1
60	MP1C	Mx	-.000211	1
61	MP1C	Z	-.3	3
62	MP1C	Mx	-.000211	3
63	MP4A	Z	-.3	1
64	MP4A	Mx	0	1
65	MP4A	Z	-.3	3
66	MP4A	Mx	0	3
67	MP4B	Z	-.3	1
68	MP4B	Mx	.000195	1
69	MP4B	Z	-.3	3
70	MP4B	Mx	.000195	3
71	MP4C	Z	-.3	1
72	MP4C	Mx	-.000211	1
73	MP4C	Z	-.3	3
74	MP4C	Mx	-.000211	3
75	MP2A	Z	-.264	5
76	MP2A	Mx	-8.8e-5	5
77	MP2A	Z	-.264	6
78	MP2A	Mx	-8.8e-5	6
79	MP2B	Z	-.264	5
80	MP2B	Mx	-.000185	5
81	MP2B	Z	-.264	6
82	MP2B	Mx	-.000185	6
83	MP2A	Z	-.264	5
84	MP2A	Mx	8.8e-5	5
85	MP2A	Z	-.264	6
86	MP2A	Mx	8.8e-5	6
87	MP2B	Z	-.264	5
88	MP2B	Mx	-.000273	5
89	MP2B	Z	-.264	6
90	MP2B	Mx	-.000273	6

**Member Point Loads (BLC 83 : Antenna Eh (90 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	.975	.92
2	MP2A	Mx	-.000731	.92
3	MP2A	X	.975	4.92
4	MP2A	Mx	-.000731	4.92
5	MP2B	X	.975	.92
6	MP2B	Mx	.000861	.92
7	MP2B	X	.975	4.92
8	MP2B	Mx	.000861	4.92
9	MP2C	X	.975	.92
10	MP2C	Mx	.000861	.92
11	MP2C	X	.975	4.92
12	MP2C	Mx	.000861	4.92
13	MP2A	X	.975	.92
14	MP2A	Mx	-.000731	.92
15	MP2A	X	.975	4.92
16	MP2A	Mx	-.000731	4.92
17	MP2B	X	.975	.92
18	MP2B	Mx	.000929	.92
19	MP2B	X	.975	4.92
20	MP2B	Mx	.000929	4.92



**Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP2C	X	.975	.92
22	MP2C	Mx	-.000361	.92
23	MP2C	X	.975	4.92
24	MP2C	Mx	-.000361	4.92
25	MP3A	X	1.306	1
26	MP3A	Mx	-.00098	1
27	MP3A	X	1.306	3
28	MP3A	Mx	-.00098	3
29	MP3B	X	1.306	1
30	MP3B	Mx	.00049	1
31	MP3B	X	1.306	3
32	MP3B	Mx	.00049	3
33	MP3C	X	1.306	1
34	MP3C	Mx	.000335	1
35	MP3C	X	1.306	3
36	MP3C	Mx	.000335	3
37	MP1A	X	2.532	3
38	MP1A	Mx	.001	3
39	MP1B	X	2.532	3
40	MP1B	Mx	-.000633	3
41	MP1C	X	2.532	3
42	MP1C	Mx	-.000433	3
43	MP2A	X	2.109	3
44	MP2A	Mx	.001	3
45	MP2B	X	2.109	3
46	MP2B	Mx	-.000527	3
47	MP2C	X	2.109	3
48	MP2C	Mx	-.000361	3
49	OVP	X	.96	1
50	OVP	Mx	0	1
51	MP1A	X	.3	1
52	MP1A	Mx	-.000225	1
53	MP1A	X	.3	3
54	MP1A	Mx	-.000225	3
55	MP1B	X	.3	1
56	MP1B	Mx	.000113	1
57	MP1B	X	.3	3
58	MP1B	Mx	.000113	3
59	MP1C	X	.3	1
60	MP1C	Mx	7.7e-5	1
61	MP1C	X	.3	3
62	MP1C	Mx	7.7e-5	3
63	MP4A	X	.3	1
64	MP4A	Mx	-.000225	1
65	MP4A	X	.3	3
66	MP4A	Mx	-.000225	3
67	MP4B	X	.3	1
68	MP4B	Mx	.000113	1
69	MP4B	X	.3	3
70	MP4B	Mx	.000113	3
71	MP4C	X	.3	1
72	MP4C	Mx	7.7e-5	1
73	MP4C	X	.3	3
74	MP4C	Mx	7.7e-5	3
75	MP2A	X	.264	5
76	MP2A	Mx	.000264	5
77	MP2A	X	.264	6

**Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
78	MP2A	Mx	.000264	6
79	MP2B	X	.264	5
80	MP2B	Mx	-.000208	5
81	MP2B	X	.264	6
82	MP2B	Mx	-.000208	6
83	MP2A	X	.264	5
84	MP2A	Mx	.000264	5
85	MP2A	X	.264	6
86	MP2A	Mx	.000264	6
87	MP2B	X	.264	5
88	MP2B	Mx	-5.6e-5	5
89	MP2B	X	.264	6
90	MP2B	Mx	-5.6e-5	6

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M4	Y	-9.639	-9.639	0	%100
2	M68B	Y	-9.639	-9.639	0	%100
3	M25A	Y	-9.639	-9.639	0	%100
4	M26A	Y	-9.639	-9.639	0	%100
5	M25	Y	-9.639	-9.639	0	%100
6	M26	Y	-9.639	-9.639	0	%100
7	MP4A	Y	-4.997	-4.997	0	%100
8	MP3A	Y	-4.997	-4.997	0	%100
9	MP2A	Y	-5.704	-5.704	0	%100
10	MP1A	Y	-4.997	-4.997	0	%100
11	MP3C	Y	-5.704	-5.704	0	%100
12	MP2C	Y	-5.704	-5.704	0	%100
13	MP1C	Y	-4.997	-4.997	0	%100
14	MP3B	Y	-4.997	-4.997	0	%100
15	MP2B	Y	-5.704	-5.704	0	%100
16	MP1B	Y	-4.997	-4.997	0	%100
17	OVP	Y	-4.997	-4.997	0	%100
18	M33	Y	-10.655	-10.655	0	%100
19	M34	Y	-10.655	-10.655	0	%100
20	M35	Y	-10.655	-10.655	0	%100
21	M36	Y	-5.704	-5.704	0	%100
22	MP4C	Y	-4.997	-4.997	0	%100
23	M39A	Y	-5.704	-5.704	0	%100
24	MP4B	Y	-4.997	-4.997	0	%100
25	M43	Y	-5.704	-5.704	0	%100
26	M57	Y	-7.639	-7.639	0	%100
27	M58	Y	-7.639	-7.639	0	%100
28	M59	Y	-7.639	-7.639	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...]	Start Location[ft.%]	End Location[ft.%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M68B	X	0	0	0	%100
4	M68B	Z	-12.814	-12.814	0	%100
5	M25A	X	0	0	0	%100
6	M25A	Z	-3.203	-3.203	0	%100
7	M26A	X	0	0	0	%100
8	M26A	Z	-3.203	-3.203	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
9	M25	X	0	0	0	%100
10	M25	Z	-9.609	-9.609	0	%100
11	M26	X	0	0	0	%100
12	M26	Z	-9.609	-9.609	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	-7.304	-7.304	0	%100
15	MP3A	X	0	0	0	%100
16	MP3A	Z	-7.304	-7.304	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	-8.841	-8.841	0	%100
19	MP1A	X	0	0	0	%100
20	MP1A	Z	-7.304	-7.304	0	%100
21	MP3C	X	0	0	0	%100
22	MP3C	Z	-8.841	-8.841	0	%100
23	MP2C	X	0	0	0	%100
24	MP2C	Z	-8.841	-8.841	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	-7.304	-7.304	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	-7.304	-7.304	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	-8.841	-8.841	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	-7.304	-7.304	0	%100
33	OVP	X	0	0	0	%100
34	OVP	Z	-7.304	-7.304	0	%100
35	M33	X	0	0	0	%100
36	M33	Z	-12.946	-12.946	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	-13.05	-13.05	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	-13.05	-13.05	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	-8.841	-8.841	0	%100
43	MP4C	X	0	0	0	%100
44	MP4C	Z	-7.304	-7.304	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	-2.21	-2.21	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-7.304	-7.304	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	-2.21	-2.21	0	%100
51	M57	X	0	0	0	%100
52	M57	Z	-2.549	-2.549	0	%100
53	M58	X	0	0	0	%100
54	M58	Z	-10.197	-10.197	0	%100
55	M59	X	0	0	0	%100
56	M59	Z	-2.549	-2.549	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	1.602	1.602	0	%100
2	M4	Z	-2.774	-2.774	0	%100
3	M68B	X	4.805	4.805	0	%100
4	M68B	Z	-8.323	-8.323	0	%100
5	M25A	X	4.805	4.805	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%)	End Location[ft.%)
6	M25A	Z	-8.323	-8.323	0	%100
7	M26A	X	0	0	0	%100
8	M26A	Z	0	0	0	%100
9	M25	X	1.602	1.602	0	%100
10	M25	Z	-2.774	-2.774	0	%100
11	M26	X	6.406	6.406	0	%100
12	M26	Z	-11.096	-11.096	0	%100
13	MP4A	X	3.652	3.652	0	%100
14	MP4A	Z	-6.325	-6.325	0	%100
15	MP3A	X	3.652	3.652	0	%100
16	MP3A	Z	-6.325	-6.325	0	%100
17	MP2A	X	4.421	4.421	0	%100
18	MP2A	Z	-7.657	-7.657	0	%100
19	MP1A	X	3.652	3.652	0	%100
20	MP1A	Z	-6.325	-6.325	0	%100
21	MP3C	X	4.421	4.421	0	%100
22	MP3C	Z	-7.657	-7.657	0	%100
23	MP2C	X	4.421	4.421	0	%100
24	MP2C	Z	-7.657	-7.657	0	%100
25	MP1C	X	3.652	3.652	0	%100
26	MP1C	Z	-6.325	-6.325	0	%100
27	MP3B	X	3.652	3.652	0	%100
28	MP3B	Z	-6.325	-6.325	0	%100
29	MP2B	X	4.421	4.421	0	%100
30	MP2B	Z	-7.657	-7.657	0	%100
31	MP1B	X	3.652	3.652	0	%100
32	MP1B	Z	-6.325	-6.325	0	%100
33	OVP	X	3.652	3.652	0	%100
34	OVP	Z	-6.325	-6.325	0	%100
35	M33	X	6.49	6.49	0	%100
36	M33	Z	-11.242	-11.242	0	%100
37	M34	X	6.49	6.49	0	%100
38	M34	Z	-11.242	-11.242	0	%100
39	M35	X	6.542	6.542	0	%100
40	M35	Z	-11.331	-11.331	0	%100
41	M36	X	3.316	3.316	0	%100
42	M36	Z	-5.743	-5.743	0	%100
43	MP4C	X	3.652	3.652	0	%100
44	MP4C	Z	-6.325	-6.325	0	%100
45	M39A	X	3.316	3.316	0	%100
46	M39A	Z	-5.743	-5.743	0	%100
47	MP4B	X	3.652	3.652	0	%100
48	MP4B	Z	-6.325	-6.325	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	0	0	0	%100
51	M57	X	3.824	3.824	0	%100
52	M57	Z	-6.623	-6.623	0	%100
53	M58	X	3.824	3.824	0	%100
54	M58	Z	-6.623	-6.623	0	%100
55	M59	X	0	0	0	%100
56	M59	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%)	End Location[ft.%)
1	M4	X	8.322	8.322	0	%100
2	M4	Z	-4.805	-4.805	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
3	M68B	X	2.774	2.774	0 %100
4	M68B	Z	-1.602	-1.602	0 %100
5	M25A	X	11.097	11.097	0 %100
6	M25A	Z	-6.407	-6.407	0 %100
7	M26A	X	2.774	2.774	0 %100
8	M26A	Z	-1.602	-1.602	0 %100
9	M25	X	0	0	0 %100
10	M25	Z	0	0	0 %100
11	M26	X	8.322	8.322	0 %100
12	M26	Z	-4.805	-4.805	0 %100
13	MP4A	X	6.325	6.325	0 %100
14	MP4A	Z	-3.652	-3.652	0 %100
15	MP3A	X	6.325	6.325	0 %100
16	MP3A	Z	-3.652	-3.652	0 %100
17	MP2A	X	7.657	7.657	0 %100
18	MP2A	Z	-4.421	-4.421	0 %100
19	MP1A	X	6.325	6.325	0 %100
20	MP1A	Z	-3.652	-3.652	0 %100
21	MP3C	X	7.657	7.657	0 %100
22	MP3C	Z	-4.421	-4.421	0 %100
23	MP2C	X	7.657	7.657	0 %100
24	MP2C	Z	-4.421	-4.421	0 %100
25	MP1C	X	6.325	6.325	0 %100
26	MP1C	Z	-3.652	-3.652	0 %100
27	MP3B	X	6.325	6.325	0 %100
28	MP3B	Z	-3.652	-3.652	0 %100
29	MP2B	X	7.657	7.657	0 %100
30	MP2B	Z	-4.421	-4.421	0 %100
31	MP1B	X	6.325	6.325	0 %100
32	MP1B	Z	-3.652	-3.652	0 %100
33	OVP	X	6.325	6.325	0 %100
34	OVP	Z	-3.652	-3.652	0 %100
35	M33	X	11.301	11.301	0 %100
36	M33	Z	-6.525	-6.525	0 %100
37	M34	X	11.212	11.212	0 %100
38	M34	Z	-6.473	-6.473	0 %100
39	M35	X	11.301	11.301	0 %100
40	M35	Z	-6.525	-6.525	0 %100
41	M36	X	1.914	1.914	0 %100
42	M36	Z	-1.105	-1.105	0 %100
43	MP4C	X	6.325	6.325	0 %100
44	MP4C	Z	-3.652	-3.652	0 %100
45	M39A	X	7.657	7.657	0 %100
46	M39A	Z	-4.421	-4.421	0 %100
47	MP4B	X	6.325	6.325	0 %100
48	MP4B	Z	-3.652	-3.652	0 %100
49	M43	X	1.914	1.914	0 %100
50	M43	Z	-1.105	-1.105	0 %100
51	M57	X	8.831	8.831	0 %100
52	M57	Z	-5.099	-5.099	0 %100
53	M58	X	2.208	2.208	0 %100
54	M58	Z	-1.275	-1.275	0 %100
55	M59	X	2.208	2.208	0 %100
56	M59	Z	-1.275	-1.275	0 %100

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



Company : Colliers Engineering & Design  
 Designer : ILR  
 Job Number : Project No. 10208046  
 Model Name : 5000243734-VZW\_MT\_LO\_H

Aug 1, 2023  
 4:42 PM  
 Checked By: DX

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.-%]	End Location[ft.-%]	
1	M4	X	12.812	12.812	0	%100
2	M4	Z	0	0	0	%100
3	M68B	X	0	0	0	%100
4	M68B	Z	0	0	0	%100
5	M25A	X	9.61	9.61	0	%100
6	M25A	Z	0	0	0	%100
7	M26A	X	9.61	9.61	0	%100
8	M26A	Z	0	0	0	%100
9	M25	X	3.203	3.203	0	%100
10	M25	Z	0	0	0	%100
11	M26	X	3.203	3.203	0	%100
12	M26	Z	0	0	0	%100
13	MP4A	X	7.304	7.304	0	%100
14	MP4A	Z	0	0	0	%100
15	MP3A	X	7.304	7.304	0	%100
16	MP3A	Z	0	0	0	%100
17	MP2A	X	8.841	8.841	0	%100
18	MP2A	Z	0	0	0	%100
19	MP1A	X	7.304	7.304	0	%100
20	MP1A	Z	0	0	0	%100
21	MP3C	X	8.841	8.841	0	%100
22	MP3C	Z	0	0	0	%100
23	MP2C	X	8.841	8.841	0	%100
24	MP2C	Z	0	0	0	%100
25	MP1C	X	7.304	7.304	0	%100
26	MP1C	Z	0	0	0	%100
27	MP3B	X	7.304	7.304	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	8.841	8.841	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	7.304	7.304	0	%100
32	MP1B	Z	0	0	0	%100
33	OVP	X	7.304	7.304	0	%100
34	OVP	Z	0	0	0	%100
35	M33	X	13.084	13.084	0	%100
36	M33	Z	0	0	0	%100
37	M34	X	12.981	12.981	0	%100
38	M34	Z	0	0	0	%100
39	M35	X	12.981	12.981	0	%100
40	M35	Z	0	0	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP4C	X	7.304	7.304	0	%100
44	MP4C	Z	0	0	0	%100
45	M39A	X	6.631	6.631	0	%100
46	M39A	Z	0	0	0	%100
47	MP4B	X	7.304	7.304	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	6.631	6.631	0	%100
50	M43	Z	0	0	0	%100
51	M57	X	7.648	7.648	0	%100
52	M57	Z	0	0	0	%100
53	M58	X	0	0	0	%100
54	M58	Z	0	0	0	%100
55	M59	X	7.648	7.648	0	%100
56	M59	Z	0	0	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]	
1	M4	X	8.322	8.322	0	%100
2	M4	Z	4.805	4.805	0	%100
3	M68B	X	2.774	2.774	0	%100
4	M68B	Z	1.602	1.602	0	%100
5	M25A	X	2.774	2.774	0	%100
6	M25A	Z	1.602	1.602	0	%100
7	M26A	X	11.097	11.097	0	%100
8	M26A	Z	6.407	6.407	0	%100
9	M25	X	8.322	8.322	0	%100
10	M25	Z	4.805	4.805	0	%100
11	M26	X	0	0	0	%100
12	M26	Z	0	0	0	%100
13	MP4A	X	6.325	6.325	0	%100
14	MP4A	Z	3.652	3.652	0	%100
15	MP3A	X	6.325	6.325	0	%100
16	MP3A	Z	3.652	3.652	0	%100
17	MP2A	X	7.657	7.657	0	%100
18	MP2A	Z	4.421	4.421	0	%100
19	MP1A	X	6.325	6.325	0	%100
20	MP1A	Z	3.652	3.652	0	%100
21	MP3C	X	7.657	7.657	0	%100
22	MP3C	Z	4.421	4.421	0	%100
23	MP2C	X	7.657	7.657	0	%100
24	MP2C	Z	4.421	4.421	0	%100
25	MP1C	X	6.325	6.325	0	%100
26	MP1C	Z	3.652	3.652	0	%100
27	MP3B	X	6.325	6.325	0	%100
28	MP3B	Z	3.652	3.652	0	%100
29	MP2B	X	7.657	7.657	0	%100
30	MP2B	Z	4.421	4.421	0	%100
31	MP1B	X	6.325	6.325	0	%100
32	MP1B	Z	3.652	3.652	0	%100
33	OVP	X	6.325	6.325	0	%100
34	OVP	Z	3.652	3.652	0	%100
35	M33	X	11.301	11.301	0	%100
36	M33	Z	6.525	6.525	0	%100
37	M34	X	11.301	11.301	0	%100
38	M34	Z	6.525	6.525	0	%100
39	M35	X	11.212	11.212	0	%100
40	M35	Z	6.473	6.473	0	%100
41	M36	X	1.914	1.914	0	%100
42	M36	Z	1.105	1.105	0	%100
43	MP4C	X	6.325	6.325	0	%100
44	MP4C	Z	3.652	3.652	0	%100
45	M39A	X	1.914	1.914	0	%100
46	M39A	Z	1.105	1.105	0	%100
47	MP4B	X	6.325	6.325	0	%100
48	MP4B	Z	3.652	3.652	0	%100
49	M43	X	7.657	7.657	0	%100
50	M43	Z	4.421	4.421	0	%100
51	M57	X	2.208	2.208	0	%100
52	M57	Z	1.275	1.275	0	%100
53	M58	X	2.208	2.208	0	%100
54	M58	Z	1.275	1.275	0	%100
55	M59	X	8.831	8.831	0	%100
56	M59	Z	5.099	5.099	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	M4	X	1.602	1.602	0	%100
2	M4	Z	2.774	2.774	0	%100
3	M68B	X	4.805	4.805	0	%100
4	M68B	Z	8.323	8.323	0	%100
5	M25A	X	0	0	0	%100
6	M25A	Z	0	0	0	%100
7	M26A	X	4.805	4.805	0	%100
8	M26A	Z	8.323	8.323	0	%100
9	M25	X	6.406	6.406	0	%100
10	M25	Z	11.096	11.096	0	%100
11	M26	X	1.602	1.602	0	%100
12	M26	Z	2.774	2.774	0	%100
13	MP4A	X	3.652	3.652	0	%100
14	MP4A	Z	6.325	6.325	0	%100
15	MP3A	X	3.652	3.652	0	%100
16	MP3A	Z	6.325	6.325	0	%100
17	MP2A	X	4.421	4.421	0	%100
18	MP2A	Z	7.657	7.657	0	%100
19	MP1A	X	3.652	3.652	0	%100
20	MP1A	Z	6.325	6.325	0	%100
21	MP3C	X	4.421	4.421	0	%100
22	MP3C	Z	7.657	7.657	0	%100
23	MP2C	X	4.421	4.421	0	%100
24	MP2C	Z	7.657	7.657	0	%100
25	MP1C	X	3.652	3.652	0	%100
26	MP1C	Z	6.325	6.325	0	%100
27	MP3B	X	3.652	3.652	0	%100
28	MP3B	Z	6.325	6.325	0	%100
29	MP2B	X	4.421	4.421	0	%100
30	MP2B	Z	7.657	7.657	0	%100
31	MP1B	X	3.652	3.652	0	%100
32	MP1B	Z	6.325	6.325	0	%100
33	OVP	X	3.652	3.652	0	%100
34	OVP	Z	6.325	6.325	0	%100
35	M33	X	6.49	6.49	0	%100
36	M33	Z	11.242	11.242	0	%100
37	M34	X	6.542	6.542	0	%100
38	M34	Z	11.331	11.331	0	%100
39	M35	X	6.49	6.49	0	%100
40	M35	Z	11.242	11.242	0	%100
41	M36	X	3.316	3.316	0	%100
42	M36	Z	5.743	5.743	0	%100
43	MP4C	X	3.652	3.652	0	%100
44	MP4C	Z	6.325	6.325	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	0	0	0	%100
47	MP4B	X	3.652	3.652	0	%100
48	MP4B	Z	6.325	6.325	0	%100
49	M43	X	3.316	3.316	0	%100
50	M43	Z	5.743	5.743	0	%100
51	M57	X	0	0	0	%100
52	M57	Z	0	0	0	%100
53	M58	X	3.824	3.824	0	%100
54	M58	Z	6.623	6.623	0	%100
55	M59	X	3.824	3.824	0	%100
56	M59	Z	6.623	6.623	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M68B	X	0	0	0	%100
4	M68B	Z	12.814	12.814	0	%100
5	M25A	X	0	0	0	%100
6	M25A	Z	3.203	3.203	0	%100
7	M26A	X	0	0	0	%100
8	M26A	Z	3.203	3.203	0	%100
9	M25	X	0	0	0	%100
10	M25	Z	9.609	9.609	0	%100
11	M26	X	0	0	0	%100
12	M26	Z	9.609	9.609	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	7.304	7.304	0	%100
15	MP3A	X	0	0	0	%100
16	MP3A	Z	7.304	7.304	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	8.841	8.841	0	%100
19	MP1A	X	0	0	0	%100
20	MP1A	Z	7.304	7.304	0	%100
21	MP3C	X	0	0	0	%100
22	MP3C	Z	8.841	8.841	0	%100
23	MP2C	X	0	0	0	%100
24	MP2C	Z	8.841	8.841	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	7.304	7.304	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	7.304	7.304	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	8.841	8.841	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	7.304	7.304	0	%100
33	OVP	X	0	0	0	%100
34	OVP	Z	7.304	7.304	0	%100
35	M33	X	0	0	0	%100
36	M33	Z	12.946	12.946	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	13.05	13.05	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	13.05	13.05	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	8.841	8.841	0	%100
43	MP4C	X	0	0	0	%100
44	MP4C	Z	7.304	7.304	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	2.21	2.21	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	7.304	7.304	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	2.21	2.21	0	%100
51	M57	X	0	0	0	%100
52	M57	Z	2.549	2.549	0	%100
53	M58	X	0	0	0	%100
54	M58	Z	10.197	10.197	0	%100
55	M59	X	0	0	0	%100
56	M59	Z	2.549	2.549	0	%100

---

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

---

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-1.602	-1.602	0	%100
2	M4	Z	2.774	2.774	0	%100
3	M68B	X	-4.805	-4.805	0	%100
4	M68B	Z	8.323	8.323	0	%100
5	M25A	X	-4.805	-4.805	0	%100
6	M25A	Z	8.323	8.323	0	%100
7	M26A	X	0	0	0	%100
8	M26A	Z	0	0	0	%100
9	M25	X	-1.602	-1.602	0	%100
10	M25	Z	2.774	2.774	0	%100
11	M26	X	-6.406	-6.406	0	%100
12	M26	Z	11.096	11.096	0	%100
13	MP4A	X	-3.652	-3.652	0	%100
14	MP4A	Z	6.325	6.325	0	%100
15	MP3A	X	-3.652	-3.652	0	%100
16	MP3A	Z	6.325	6.325	0	%100
17	MP2A	X	-4.421	-4.421	0	%100
18	MP2A	Z	7.657	7.657	0	%100
19	MP1A	X	-3.652	-3.652	0	%100
20	MP1A	Z	6.325	6.325	0	%100
21	MP3C	X	-4.421	-4.421	0	%100
22	MP3C	Z	7.657	7.657	0	%100
23	MP2C	X	-4.421	-4.421	0	%100
24	MP2C	Z	7.657	7.657	0	%100
25	MP1C	X	-3.652	-3.652	0	%100
26	MP1C	Z	6.325	6.325	0	%100
27	MP3B	X	-3.652	-3.652	0	%100
28	MP3B	Z	6.325	6.325	0	%100
29	MP2B	X	-4.421	-4.421	0	%100
30	MP2B	Z	7.657	7.657	0	%100
31	MP1B	X	-3.652	-3.652	0	%100
32	MP1B	Z	6.325	6.325	0	%100
33	OVP	X	-3.652	-3.652	0	%100
34	OVP	Z	6.325	6.325	0	%100
35	M33	X	-6.49	-6.49	0	%100
36	M33	Z	11.242	11.242	0	%100
37	M34	X	-6.49	-6.49	0	%100
38	M34	Z	11.242	11.242	0	%100
39	M35	X	-6.542	-6.542	0	%100
40	M35	Z	11.331	11.331	0	%100
41	M36	X	-3.316	-3.316	0	%100
42	M36	Z	5.743	5.743	0	%100
43	MP4C	X	-3.652	-3.652	0	%100
44	MP4C	Z	6.325	6.325	0	%100
45	M39A	X	-3.316	-3.316	0	%100
46	M39A	Z	5.743	5.743	0	%100
47	MP4B	X	-3.652	-3.652	0	%100
48	MP4B	Z	6.325	6.325	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	0	0	0	%100
51	M57	X	-3.824	-3.824	0	%100
52	M57	Z	6.623	6.623	0	%100
53	M58	X	-3.824	-3.824	0	%100
54	M58	Z	6.623	6.623	0	%100
55	M59	X	0	0	0	%100
56	M59	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%,]	End Location[ft.%,]
1	M4	X	-8.322	-8.322	0 %100
2	M4	Z	4.805	4.805	0 %100
3	M68B	X	-2.774	-2.774	0 %100
4	M68B	Z	1.602	1.602	0 %100
5	M25A	X	-11.097	-11.097	0 %100
6	M25A	Z	6.407	6.407	0 %100
7	M26A	X	-2.774	-2.774	0 %100
8	M26A	Z	1.602	1.602	0 %100
9	M25	X	0	0	0 %100
10	M25	Z	0	0	0 %100
11	M26	X	-8.322	-8.322	0 %100
12	M26	Z	4.805	4.805	0 %100
13	MP4A	X	-6.325	-6.325	0 %100
14	MP4A	Z	3.652	3.652	0 %100
15	MP3A	X	-6.325	-6.325	0 %100
16	MP3A	Z	3.652	3.652	0 %100
17	MP2A	X	-7.657	-7.657	0 %100
18	MP2A	Z	4.421	4.421	0 %100
19	MP1A	X	-6.325	-6.325	0 %100
20	MP1A	Z	3.652	3.652	0 %100
21	MP3C	X	-7.657	-7.657	0 %100
22	MP3C	Z	4.421	4.421	0 %100
23	MP2C	X	-7.657	-7.657	0 %100
24	MP2C	Z	4.421	4.421	0 %100
25	MP1C	X	-6.325	-6.325	0 %100
26	MP1C	Z	3.652	3.652	0 %100
27	MP3B	X	-6.325	-6.325	0 %100
28	MP3B	Z	3.652	3.652	0 %100
29	MP2B	X	-7.657	-7.657	0 %100
30	MP2B	Z	4.421	4.421	0 %100
31	MP1B	X	-6.325	-6.325	0 %100
32	MP1B	Z	3.652	3.652	0 %100
33	OVP	X	-6.325	-6.325	0 %100
34	OVP	Z	3.652	3.652	0 %100
35	M33	X	-11.301	-11.301	0 %100
36	M33	Z	6.525	6.525	0 %100
37	M34	X	-11.212	-11.212	0 %100
38	M34	Z	6.473	6.473	0 %100
39	M35	X	-11.301	-11.301	0 %100
40	M35	Z	6.525	6.525	0 %100
41	M36	X	-1.914	-1.914	0 %100
42	M36	Z	1.105	1.105	0 %100
43	MP4C	X	-6.325	-6.325	0 %100
44	MP4C	Z	3.652	3.652	0 %100
45	M39A	X	-7.657	-7.657	0 %100
46	M39A	Z	4.421	4.421	0 %100
47	MP4B	X	-6.325	-6.325	0 %100
48	MP4B	Z	3.652	3.652	0 %100
49	M43	X	-1.914	-1.914	0 %100
50	M43	Z	1.105	1.105	0 %100
51	M57	X	-8.831	-8.831	0 %100
52	M57	Z	5.099	5.099	0 %100
53	M58	X	-2.208	-2.208	0 %100
54	M58	Z	1.275	1.275	0 %100
55	M59	X	-2.208	-2.208	0 %100
56	M59	Z	1.275	1.275	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-12.812	-12.812	0	%100
2	M4	Z	0	0	0	%100
3	M68B	X	0	0	0	%100
4	M68B	Z	0	0	0	%100
5	M25A	X	-9.61	-9.61	0	%100
6	M25A	Z	0	0	0	%100
7	M26A	X	-9.61	-9.61	0	%100
8	M26A	Z	0	0	0	%100
9	M25	X	-3.203	-3.203	0	%100
10	M25	Z	0	0	0	%100
11	M26	X	-3.203	-3.203	0	%100
12	M26	Z	0	0	0	%100
13	MP4A	X	-7.304	-7.304	0	%100
14	MP4A	Z	0	0	0	%100
15	MP3A	X	-7.304	-7.304	0	%100
16	MP3A	Z	0	0	0	%100
17	MP2A	X	-8.841	-8.841	0	%100
18	MP2A	Z	0	0	0	%100
19	MP1A	X	-7.304	-7.304	0	%100
20	MP1A	Z	0	0	0	%100
21	MP3C	X	-8.841	-8.841	0	%100
22	MP3C	Z	0	0	0	%100
23	MP2C	X	-8.841	-8.841	0	%100
24	MP2C	Z	0	0	0	%100
25	MP1C	X	-7.304	-7.304	0	%100
26	MP1C	Z	0	0	0	%100
27	MP3B	X	-7.304	-7.304	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	-8.841	-8.841	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	-7.304	-7.304	0	%100
32	MP1B	Z	0	0	0	%100
33	OVP	X	-7.304	-7.304	0	%100
34	OVP	Z	0	0	0	%100
35	M33	X	-13.084	-13.084	0	%100
36	M33	Z	0	0	0	%100
37	M34	X	-12.981	-12.981	0	%100
38	M34	Z	0	0	0	%100
39	M35	X	-12.981	-12.981	0	%100
40	M35	Z	0	0	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP4C	X	-7.304	-7.304	0	%100
44	MP4C	Z	0	0	0	%100
45	M39A	X	-6.631	-6.631	0	%100
46	M39A	Z	0	0	0	%100
47	MP4B	X	-7.304	-7.304	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	-6.631	-6.631	0	%100
50	M43	Z	0	0	0	%100
51	M57	X	-7.648	-7.648	0	%100
52	M57	Z	0	0	0	%100
53	M58	X	0	0	0	%100
54	M58	Z	0	0	0	%100
55	M59	X	-7.648	-7.648	0	%100
56	M59	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft, F...	End Magnitude[lb/ft, F...	Start Location[ft. %]	End Location[ft. %]
1	M4	-8.322	-8.322	0	%100
2	M4	-4.805	-4.805	0	%100
3	M68B	-2.774	-2.774	0	%100
4	M68B	-1.602	-1.602	0	%100
5	M25A	-2.774	-2.774	0	%100
6	M25A	-1.602	-1.602	0	%100
7	M26A	-11.097	-11.097	0	%100
8	M26A	-6.407	-6.407	0	%100
9	M25	-8.322	-8.322	0	%100
10	M25	-4.805	-4.805	0	%100
11	M26	0	0	0	%100
12	M26	0	0	0	%100
13	MP4A	-6.325	-6.325	0	%100
14	MP4A	-3.652	-3.652	0	%100
15	MP3A	-6.325	-6.325	0	%100
16	MP3A	-3.652	-3.652	0	%100
17	MP2A	-7.657	-7.657	0	%100
18	MP2A	-4.421	-4.421	0	%100
19	MP1A	-6.325	-6.325	0	%100
20	MP1A	-3.652	-3.652	0	%100
21	MP3C	-7.657	-7.657	0	%100
22	MP3C	-4.421	-4.421	0	%100
23	MP2C	-7.657	-7.657	0	%100
24	MP2C	-4.421	-4.421	0	%100
25	MP1C	-6.325	-6.325	0	%100
26	MP1C	-3.652	-3.652	0	%100
27	MP3B	-6.325	-6.325	0	%100
28	MP3B	-3.652	-3.652	0	%100
29	MP2B	-7.657	-7.657	0	%100
30	MP2B	-4.421	-4.421	0	%100
31	MP1B	-6.325	-6.325	0	%100
32	MP1B	-3.652	-3.652	0	%100
33	OVP	-6.325	-6.325	0	%100
34	OVP	-3.652	-3.652	0	%100
35	M33	-11.301	-11.301	0	%100
36	M33	-6.525	-6.525	0	%100
37	M34	-11.301	-11.301	0	%100
38	M34	-6.525	-6.525	0	%100
39	M35	-11.212	-11.212	0	%100
40	M35	-6.473	-6.473	0	%100
41	M36	-1.914	-1.914	0	%100
42	M36	-1.105	-1.105	0	%100
43	MP4C	-6.325	-6.325	0	%100
44	MP4C	-3.652	-3.652	0	%100
45	M39A	-1.914	-1.914	0	%100
46	M39A	-1.105	-1.105	0	%100
47	MP4B	-6.325	-6.325	0	%100
48	MP4B	-3.652	-3.652	0	%100
49	M43	-7.657	-7.657	0	%100
50	M43	-4.421	-4.421	0	%100
51	M57	-2.208	-2.208	0	%100
52	M57	-1.275	-1.275	0	%100
53	M58	-2.208	-2.208	0	%100
54	M58	-1.275	-1.275	0	%100
55	M59	-8.831	-8.831	0	%100
56	M59	-5.099	-5.099	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-1.602	-1.602	0 %100
2	M4	Z	-2.774	-2.774	0 %100
3	M68B	X	-4.805	-4.805	0 %100
4	M68B	Z	-8.323	-8.323	0 %100
5	M25A	X	0	0	0 %100
6	M25A	Z	0	0	0 %100
7	M26A	X	-4.805	-4.805	0 %100
8	M26A	Z	-8.323	-8.323	0 %100
9	M25	X	-6.406	-6.406	0 %100
10	M25	Z	-11.096	-11.096	0 %100
11	M26	X	-1.602	-1.602	0 %100
12	M26	Z	-2.774	-2.774	0 %100
13	MP4A	X	-3.652	-3.652	0 %100
14	MP4A	Z	-6.325	-6.325	0 %100
15	MP3A	X	-3.652	-3.652	0 %100
16	MP3A	Z	-6.325	-6.325	0 %100
17	MP2A	X	-4.421	-4.421	0 %100
18	MP2A	Z	-7.657	-7.657	0 %100
19	MP1A	X	-3.652	-3.652	0 %100
20	MP1A	Z	-6.325	-6.325	0 %100
21	MP3C	X	-4.421	-4.421	0 %100
22	MP3C	Z	-7.657	-7.657	0 %100
23	MP2C	X	-4.421	-4.421	0 %100
24	MP2C	Z	-7.657	-7.657	0 %100
25	MP1C	X	-3.652	-3.652	0 %100
26	MP1C	Z	-6.325	-6.325	0 %100
27	MP3B	X	-3.652	-3.652	0 %100
28	MP3B	Z	-6.325	-6.325	0 %100
29	MP2B	X	-4.421	-4.421	0 %100
30	MP2B	Z	-7.657	-7.657	0 %100
31	MP1B	X	-3.652	-3.652	0 %100
32	MP1B	Z	-6.325	-6.325	0 %100
33	OVP	X	-3.652	-3.652	0 %100
34	OVP	Z	-6.325	-6.325	0 %100
35	M33	X	-6.49	-6.49	0 %100
36	M33	Z	-11.242	-11.242	0 %100
37	M34	X	-6.542	-6.542	0 %100
38	M34	Z	-11.331	-11.331	0 %100
39	M35	X	-6.49	-6.49	0 %100
40	M35	Z	-11.242	-11.242	0 %100
41	M36	X	-3.316	-3.316	0 %100
42	M36	Z	-5.743	-5.743	0 %100
43	MP4C	X	-3.652	-3.652	0 %100
44	MP4C	Z	-6.325	-6.325	0 %100
45	M39A	X	0	0	0 %100
46	M39A	Z	0	0	0 %100
47	MP4B	X	-3.652	-3.652	0 %100
48	MP4B	Z	-6.325	-6.325	0 %100
49	M43	X	-3.316	-3.316	0 %100
50	M43	Z	-5.743	-5.743	0 %100
51	M57	X	0	0	0 %100
52	M57	Z	0	0	0 %100
53	M58	X	-3.824	-3.824	0 %100
54	M58	Z	-6.623	-6.623	0 %100
55	M59	X	-3.824	-3.824	0 %100
56	M59	Z	-6.623	-6.623	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M68B	X	0	0	0	%100
4	M68B	Z	-3.768	-3.768	0	%100
5	M25A	X	0	0	0	%100
6	M25A	Z	-.942	-.942	0	%100
7	M26A	X	0	0	0	%100
8	M26A	Z	-.942	-.942	0	%100
9	M25	X	0	0	0	%100
10	M25	Z	-2.826	-2.826	0	%100
11	M26	X	0	0	0	%100
12	M26	Z	-2.826	-2.826	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	-2.727	-2.727	0	%100
15	MP3A	X	0	0	0	%100
16	MP3A	Z	-2.727	-2.727	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	-3.017	-3.017	0	%100
19	MP1A	X	0	0	0	%100
20	MP1A	Z	-2.727	-2.727	0	%100
21	MP3C	X	0	0	0	%100
22	MP3C	Z	-3.017	-3.017	0	%100
23	MP2C	X	0	0	0	%100
24	MP2C	Z	-3.017	-3.017	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	-2.727	-2.727	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	-2.727	-2.727	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	-3.017	-3.017	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	-2.727	-2.727	0	%100
33	OVP	X	0	0	0	%100
34	OVP	Z	-2.727	-2.727	0	%100
35	M33	X	0	0	0	%100
36	M33	Z	-3.141	-3.141	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	-3.571	-3.571	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	-3.571	-3.571	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	-3.017	-3.017	0	%100
43	MP4C	X	0	0	0	%100
44	MP4C	Z	-2.727	-2.727	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	-.754	-.754	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-2.727	-2.727	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	-.754	-.754	0	%100
51	M57	X	0	0	0	%100
52	M57	Z	-.706	-.706	0	%100
53	M58	X	0	0	0	%100
54	M58	Z	-2.823	-2.823	0	%100
55	M59	X	0	0	0	%100
56	M59	Z	-.706	-.706	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	M4	X	.471	.471	0	%100
2	M4	Z	-.816	-.816	0	%100
3	M68B	X	1.413	1.413	0	%100
4	M68B	Z	-2.448	-2.448	0	%100
5	M25A	X	1.413	1.413	0	%100
6	M25A	Z	-2.448	-2.448	0	%100
7	M26A	X	0	0	0	%100
8	M26A	Z	0	0	0	%100
9	M25	X	.471	.471	0	%100
10	M25	Z	-.816	-.816	0	%100
11	M26	X	1.884	1.884	0	%100
12	M26	Z	-3.263	-3.263	0	%100
13	MP4A	X	1.363	1.363	0	%100
14	MP4A	Z	-2.361	-2.361	0	%100
15	MP3A	X	1.363	1.363	0	%100
16	MP3A	Z	-2.361	-2.361	0	%100
17	MP2A	X	1.509	1.509	0	%100
18	MP2A	Z	-2.613	-2.613	0	%100
19	MP1A	X	1.363	1.363	0	%100
20	MP1A	Z	-2.361	-2.361	0	%100
21	MP3C	X	1.509	1.509	0	%100
22	MP3C	Z	-2.613	-2.613	0	%100
23	MP2C	X	1.509	1.509	0	%100
24	MP2C	Z	-2.613	-2.613	0	%100
25	MP1C	X	1.363	1.363	0	%100
26	MP1C	Z	-2.361	-2.361	0	%100
27	MP3B	X	1.363	1.363	0	%100
28	MP3B	Z	-2.361	-2.361	0	%100
29	MP2B	X	1.509	1.509	0	%100
30	MP2B	Z	-2.613	-2.613	0	%100
31	MP1B	X	1.363	1.363	0	%100
32	MP1B	Z	-2.361	-2.361	0	%100
33	OVP	X	1.363	1.363	0	%100
34	OVP	Z	-2.361	-2.361	0	%100
35	M33	X	1.642	1.642	0	%100
36	M33	Z	-2.844	-2.844	0	%100
37	M34	X	1.642	1.642	0	%100
38	M34	Z	-2.844	-2.844	0	%100
39	M35	X	1.857	1.857	0	%100
40	M35	Z	-3.217	-3.217	0	%100
41	M36	X	1.132	1.132	0	%100
42	M36	Z	-1.96	-1.96	0	%100
43	MP4C	X	1.363	1.363	0	%100
44	MP4C	Z	-2.361	-2.361	0	%100
45	M39A	X	1.132	1.132	0	%100
46	M39A	Z	-1.96	-1.96	0	%100
47	MP4B	X	1.363	1.363	0	%100
48	MP4B	Z	-2.361	-2.361	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	0	0	0	%100
51	M57	X	1.059	1.059	0	%100
52	M57	Z	-1.834	-1.834	0	%100
53	M58	X	1.059	1.059	0	%100
54	M58	Z	-1.834	-1.834	0	%100
55	M59	X	0	0	0	%100
56	M59	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	2.447	2.447	0 %100
2	M4	Z	-1.413	-1.413	0 %100
3	M68B	X	.816	.816	0 %100
4	M68B	Z	-.471	-.471	0 %100
5	M25A	X	3.264	3.264	0 %100
6	M25A	Z	-1.884	-1.884	0 %100
7	M26A	X	.816	.816	0 %100
8	M26A	Z	-.471	-.471	0 %100
9	M25	X	0	0	0 %100
10	M25	Z	0	0	0 %100
11	M26	X	2.447	2.447	0 %100
12	M26	Z	-1.413	-1.413	0 %100
13	MP4A	X	2.361	2.361	0 %100
14	MP4A	Z	-1.363	-1.363	0 %100
15	MP3A	X	2.361	2.361	0 %100
16	MP3A	Z	-1.363	-1.363	0 %100
17	MP2A	X	2.613	2.613	0 %100
18	MP2A	Z	-1.509	-1.509	0 %100
19	MP1A	X	2.361	2.361	0 %100
20	MP1A	Z	-1.363	-1.363	0 %100
21	MP3C	X	2.613	2.613	0 %100
22	MP3C	Z	-1.509	-1.509	0 %100
23	MP2C	X	2.613	2.613	0 %100
24	MP2C	Z	-1.509	-1.509	0 %100
25	MP1C	X	2.361	2.361	0 %100
26	MP1C	Z	-1.363	-1.363	0 %100
27	MP3B	X	2.361	2.361	0 %100
28	MP3B	Z	-1.363	-1.363	0 %100
29	MP2B	X	2.613	2.613	0 %100
30	MP2B	Z	-1.509	-1.509	0 %100
31	MP1B	X	2.361	2.361	0 %100
32	MP1B	Z	-1.363	-1.363	0 %100
33	OVP	X	2.361	2.361	0 %100
34	OVP	Z	-1.363	-1.363	0 %100
35	M33	X	3.093	3.093	0 %100
36	M33	Z	-1.786	-1.786	0 %100
37	M34	X	2.72	2.72	0 %100
38	M34	Z	-1.57	-1.57	0 %100
39	M35	X	3.093	3.093	0 %100
40	M35	Z	-1.786	-1.786	0 %100
41	M36	X	.653	.653	0 %100
42	M36	Z	-.377	-.377	0 %100
43	MP4C	X	2.361	2.361	0 %100
44	MP4C	Z	-1.363	-1.363	0 %100
45	M39A	X	2.613	2.613	0 %100
46	M39A	Z	-1.509	-1.509	0 %100
47	MP4B	X	2.361	2.361	0 %100
48	MP4B	Z	-1.363	-1.363	0 %100
49	M43	X	.653	.653	0 %100
50	M43	Z	-.377	-.377	0 %100
51	M57	X	2.445	2.445	0 %100
52	M57	Z	-1.412	-1.412	0 %100
53	M58	X	.611	.611	0 %100
54	M58	Z	-.353	-.353	0 %100
55	M59	X	.611	.611	0 %100
56	M59	Z	-.353	-.353	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]	
1	M4	X	3.768	3.768	0	%100
2	M4	Z	0	0	0	%100
3	M68B	X	0	0	0	%100
4	M68B	Z	0	0	0	%100
5	M25A	X	2.826	2.826	0	%100
6	M25A	Z	0	0	0	%100
7	M26A	X	2.826	2.826	0	%100
8	M26A	Z	0	0	0	%100
9	M25	X	.942	.942	0	%100
10	M25	Z	0	0	0	%100
11	M26	X	.942	.942	0	%100
12	M26	Z	0	0	0	%100
13	MP4A	X	2.727	2.727	0	%100
14	MP4A	Z	0	0	0	%100
15	MP3A	X	2.727	2.727	0	%100
16	MP3A	Z	0	0	0	%100
17	MP2A	X	3.017	3.017	0	%100
18	MP2A	Z	0	0	0	%100
19	MP1A	X	2.727	2.727	0	%100
20	MP1A	Z	0	0	0	%100
21	MP3C	X	3.017	3.017	0	%100
22	MP3C	Z	0	0	0	%100
23	MP2C	X	3.017	3.017	0	%100
24	MP2C	Z	0	0	0	%100
25	MP1C	X	2.727	2.727	0	%100
26	MP1C	Z	0	0	0	%100
27	MP3B	X	2.727	2.727	0	%100
28	MP3B	Z	0	0	0	%100
29	MP2B	X	3.017	3.017	0	%100
30	MP2B	Z	0	0	0	%100
31	MP1B	X	2.727	2.727	0	%100
32	MP1B	Z	0	0	0	%100
33	OVP	X	2.727	2.727	0	%100
34	OVP	Z	0	0	0	%100
35	M33	X	3.715	3.715	0	%100
36	M33	Z	0	0	0	%100
37	M34	X	3.284	3.284	0	%100
38	M34	Z	0	0	0	%100
39	M35	X	3.284	3.284	0	%100
40	M35	Z	0	0	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	0	0	0	%100
43	MP4C	X	2.727	2.727	0	%100
44	MP4C	Z	0	0	0	%100
45	M39A	X	2.263	2.263	0	%100
46	M39A	Z	0	0	0	%100
47	MP4B	X	2.727	2.727	0	%100
48	MP4B	Z	0	0	0	%100
49	M43	X	2.263	2.263	0	%100
50	M43	Z	0	0	0	%100
51	M57	X	2.117	2.117	0	%100
52	M57	Z	0	0	0	%100
53	M58	X	0	0	0	%100
54	M58	Z	0	0	0	%100
55	M59	X	2.117	2.117	0	%100
56	M59	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	2.447	2.447	0 %100
2	M4	Z	1.413	1.413	0 %100
3	M68B	X	.816	.816	0 %100
4	M68B	Z	.471	.471	0 %100
5	M25A	X	.816	.816	0 %100
6	M25A	Z	.471	.471	0 %100
7	M26A	X	3.264	3.264	0 %100
8	M26A	Z	1.884	1.884	0 %100
9	M25	X	2.447	2.447	0 %100
10	M25	Z	1.413	1.413	0 %100
11	M26	X	0	0	0 %100
12	M26	Z	0	0	0 %100
13	MP4A	X	2.361	2.361	0 %100
14	MP4A	Z	1.363	1.363	0 %100
15	MP3A	X	2.361	2.361	0 %100
16	MP3A	Z	1.363	1.363	0 %100
17	MP2A	X	2.613	2.613	0 %100
18	MP2A	Z	1.509	1.509	0 %100
19	MP1A	X	2.361	2.361	0 %100
20	MP1A	Z	1.363	1.363	0 %100
21	MP3C	X	2.613	2.613	0 %100
22	MP3C	Z	1.509	1.509	0 %100
23	MP2C	X	2.613	2.613	0 %100
24	MP2C	Z	1.509	1.509	0 %100
25	MP1C	X	2.361	2.361	0 %100
26	MP1C	Z	1.363	1.363	0 %100
27	MP3B	X	2.361	2.361	0 %100
28	MP3B	Z	1.363	1.363	0 %100
29	MP2B	X	2.613	2.613	0 %100
30	MP2B	Z	1.509	1.509	0 %100
31	MP1B	X	2.361	2.361	0 %100
32	MP1B	Z	1.363	1.363	0 %100
33	OVP	X	2.361	2.361	0 %100
34	OVP	Z	1.363	1.363	0 %100
35	M33	X	3.093	3.093	0 %100
36	M33	Z	1.786	1.786	0 %100
37	M34	X	3.093	3.093	0 %100
38	M34	Z	1.786	1.786	0 %100
39	M35	X	2.72	2.72	0 %100
40	M35	Z	1.57	1.57	0 %100
41	M36	X	.653	.653	0 %100
42	M36	Z	.377	.377	0 %100
43	MP4C	X	2.361	2.361	0 %100
44	MP4C	Z	1.363	1.363	0 %100
45	M39A	X	.653	.653	0 %100
46	M39A	Z	.377	.377	0 %100
47	MP4B	X	2.361	2.361	0 %100
48	MP4B	Z	1.363	1.363	0 %100
49	M43	X	2.613	2.613	0 %100
50	M43	Z	1.509	1.509	0 %100
51	M57	X	.611	.611	0 %100
52	M57	Z	.353	.353	0 %100
53	M58	X	.611	.611	0 %100
54	M58	Z	.353	.353	0 %100
55	M59	X	2.445	2.445	0 %100
56	M59	Z	1.412	1.412	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	.471	.471	0 %100
2	M4	Z	.816	.816	0 %100
3	M68B	X	1.413	1.413	0 %100
4	M68B	Z	2.448	2.448	0 %100
5	M25A	X	0	0	0 %100
6	M25A	Z	0	0	0 %100
7	M26A	X	1.413	1.413	0 %100
8	M26A	Z	2.448	2.448	0 %100
9	M25	X	1.884	1.884	0 %100
10	M25	Z	3.263	3.263	0 %100
11	M26	X	.471	.471	0 %100
12	M26	Z	.816	.816	0 %100
13	MP4A	X	1.363	1.363	0 %100
14	MP4A	Z	2.361	2.361	0 %100
15	MP3A	X	1.363	1.363	0 %100
16	MP3A	Z	2.361	2.361	0 %100
17	MP2A	X	1.509	1.509	0 %100
18	MP2A	Z	2.613	2.613	0 %100
19	MP1A	X	1.363	1.363	0 %100
20	MP1A	Z	2.361	2.361	0 %100
21	MP3C	X	1.509	1.509	0 %100
22	MP3C	Z	2.613	2.613	0 %100
23	MP2C	X	1.509	1.509	0 %100
24	MP2C	Z	2.613	2.613	0 %100
25	MP1C	X	1.363	1.363	0 %100
26	MP1C	Z	2.361	2.361	0 %100
27	MP3B	X	1.363	1.363	0 %100
28	MP3B	Z	2.361	2.361	0 %100
29	MP2B	X	1.509	1.509	0 %100
30	MP2B	Z	2.613	2.613	0 %100
31	MP1B	X	1.363	1.363	0 %100
32	MP1B	Z	2.361	2.361	0 %100
33	OVP	X	1.363	1.363	0 %100
34	OVP	Z	2.361	2.361	0 %100
35	M33	X	1.642	1.642	0 %100
36	M33	Z	2.844	2.844	0 %100
37	M34	X	1.857	1.857	0 %100
38	M34	Z	3.217	3.217	0 %100
39	M35	X	1.642	1.642	0 %100
40	M35	Z	2.844	2.844	0 %100
41	M36	X	1.132	1.132	0 %100
42	M36	Z	1.96	1.96	0 %100
43	MP4C	X	1.363	1.363	0 %100
44	MP4C	Z	2.361	2.361	0 %100
45	M39A	X	0	0	0 %100
46	M39A	Z	0	0	0 %100
47	MP4B	X	1.363	1.363	0 %100
48	MP4B	Z	2.361	2.361	0 %100
49	M43	X	1.132	1.132	0 %100
50	M43	Z	1.96	1.96	0 %100
51	M57	X	0	0	0 %100
52	M57	Z	0	0	0 %100
53	M58	X	1.059	1.059	0 %100
54	M58	Z	1.834	1.834	0 %100
55	M59	X	1.059	1.059	0 %100
56	M59	Z	1.834	1.834	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M68B	X	0	0	0	%100
4	M68B	Z	3.768	3.768	0	%100
5	M25A	X	0	0	0	%100
6	M25A	Z	.942	.942	0	%100
7	M26A	X	0	0	0	%100
8	M26A	Z	.942	.942	0	%100
9	M25	X	0	0	0	%100
10	M25	Z	2.826	2.826	0	%100
11	M26	X	0	0	0	%100
12	M26	Z	2.826	2.826	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	2.727	2.727	0	%100
15	MP3A	X	0	0	0	%100
16	MP3A	Z	2.727	2.727	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	3.017	3.017	0	%100
19	MP1A	X	0	0	0	%100
20	MP1A	Z	2.727	2.727	0	%100
21	MP3C	X	0	0	0	%100
22	MP3C	Z	3.017	3.017	0	%100
23	MP2C	X	0	0	0	%100
24	MP2C	Z	3.017	3.017	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	2.727	2.727	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	2.727	2.727	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	3.017	3.017	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	2.727	2.727	0	%100
33	OVP	X	0	0	0	%100
34	OVP	Z	2.727	2.727	0	%100
35	M33	X	0	0	0	%100
36	M33	Z	3.141	3.141	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	3.571	3.571	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	3.571	3.571	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	3.017	3.017	0	%100
43	MP4C	X	0	0	0	%100
44	MP4C	Z	2.727	2.727	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	.754	.754	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	2.727	2.727	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	.754	.754	0	%100
51	M57	X	0	0	0	%100
52	M57	Z	.706	.706	0	%100
53	M58	X	0	0	0	%100
54	M58	Z	2.823	2.823	0	%100
55	M59	X	0	0	0	%100
56	M59	Z	.706	.706	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-471	-471	0 %100
2	M4	Z	816	816	0 %100
3	M68B	X	-1.413	-1.413	0 %100
4	M68B	Z	2.448	2.448	0 %100
5	M25A	X	-1.413	-1.413	0 %100
6	M25A	Z	2.448	2.448	0 %100
7	M26A	X	0	0	0 %100
8	M26A	Z	0	0	0 %100
9	M25	X	-471	-471	0 %100
10	M25	Z	816	816	0 %100
11	M26	X	-1.884	-1.884	0 %100
12	M26	Z	3.263	3.263	0 %100
13	MP4A	X	-1.363	-1.363	0 %100
14	MP4A	Z	2.361	2.361	0 %100
15	MP3A	X	-1.363	-1.363	0 %100
16	MP3A	Z	2.361	2.361	0 %100
17	MP2A	X	-1.509	-1.509	0 %100
18	MP2A	Z	2.613	2.613	0 %100
19	MP1A	X	-1.363	-1.363	0 %100
20	MP1A	Z	2.361	2.361	0 %100
21	MP3C	X	-1.509	-1.509	0 %100
22	MP3C	Z	2.613	2.613	0 %100
23	MP2C	X	-1.509	-1.509	0 %100
24	MP2C	Z	2.613	2.613	0 %100
25	MP1C	X	-1.363	-1.363	0 %100
26	MP1C	Z	2.361	2.361	0 %100
27	MP3B	X	-1.363	-1.363	0 %100
28	MP3B	Z	2.361	2.361	0 %100
29	MP2B	X	-1.509	-1.509	0 %100
30	MP2B	Z	2.613	2.613	0 %100
31	MP1B	X	-1.363	-1.363	0 %100
32	MP1B	Z	2.361	2.361	0 %100
33	OVP	X	-1.363	-1.363	0 %100
34	OVP	Z	2.361	2.361	0 %100
35	M33	X	-1.642	-1.642	0 %100
36	M33	Z	2.844	2.844	0 %100
37	M34	X	-1.642	-1.642	0 %100
38	M34	Z	2.844	2.844	0 %100
39	M35	X	-1.857	-1.857	0 %100
40	M35	Z	3.217	3.217	0 %100
41	M36	X	-1.132	-1.132	0 %100
42	M36	Z	1.96	1.96	0 %100
43	MP4C	X	-1.363	-1.363	0 %100
44	MP4C	Z	2.361	2.361	0 %100
45	M39A	X	-1.132	-1.132	0 %100
46	M39A	Z	1.96	1.96	0 %100
47	MP4B	X	-1.363	-1.363	0 %100
48	MP4B	Z	2.361	2.361	0 %100
49	M43	X	0	0	0 %100
50	M43	Z	0	0	0 %100
51	M57	X	-1.059	-1.059	0 %100
52	M57	Z	1.834	1.834	0 %100
53	M58	X	-1.059	-1.059	0 %100
54	M58	Z	1.834	1.834	0 %100
55	M59	X	0	0	0 %100
56	M59	Z	0	0	0 %100





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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-2.447	-2.447	0	%100
2	M4	Z	1.413	1.413	0	%100
3	M68B	X	-.816	-.816	0	%100
4	M68B	Z	.471	.471	0	%100
5	M25A	X	-3.264	-3.264	0	%100
6	M25A	Z	1.884	1.884	0	%100
7	M26A	X	-.816	-.816	0	%100
8	M26A	Z	.471	.471	0	%100
9	M25	X	0	0	0	%100
10	M25	Z	0	0	0	%100
11	M26	X	-2.447	-2.447	0	%100
12	M26	Z	1.413	1.413	0	%100
13	MP4A	X	-2.361	-2.361	0	%100
14	MP4A	Z	1.363	1.363	0	%100
15	MP3A	X	-2.361	-2.361	0	%100
16	MP3A	Z	1.363	1.363	0	%100
17	MP2A	X	-2.613	-2.613	0	%100
18	MP2A	Z	1.509	1.509	0	%100
19	MP1A	X	-2.361	-2.361	0	%100
20	MP1A	Z	1.363	1.363	0	%100
21	MP3C	X	-2.613	-2.613	0	%100
22	MP3C	Z	1.509	1.509	0	%100
23	MP2C	X	-2.613	-2.613	0	%100
24	MP2C	Z	1.509	1.509	0	%100
25	MP1C	X	-2.361	-2.361	0	%100
26	MP1C	Z	1.363	1.363	0	%100
27	MP3B	X	-2.361	-2.361	0	%100
28	MP3B	Z	1.363	1.363	0	%100
29	MP2B	X	-2.613	-2.613	0	%100
30	MP2B	Z	1.509	1.509	0	%100
31	MP1B	X	-2.361	-2.361	0	%100
32	MP1B	Z	1.363	1.363	0	%100
33	OVP	X	-2.361	-2.361	0	%100
34	OVP	Z	1.363	1.363	0	%100
35	M33	X	-3.093	-3.093	0	%100
36	M33	Z	1.786	1.786	0	%100
37	M34	X	-2.72	-2.72	0	%100
38	M34	Z	1.57	1.57	0	%100
39	M35	X	-3.093	-3.093	0	%100
40	M35	Z	1.786	1.786	0	%100
41	M36	X	-.653	-.653	0	%100
42	M36	Z	.377	.377	0	%100
43	MP4C	X	-2.361	-2.361	0	%100
44	MP4C	Z	1.363	1.363	0	%100
45	M39A	X	-2.613	-2.613	0	%100
46	M39A	Z	1.509	1.509	0	%100
47	MP4B	X	-2.361	-2.361	0	%100
48	MP4B	Z	1.363	1.363	0	%100
49	M43	X	-.653	-.653	0	%100
50	M43	Z	.377	.377	0	%100
51	M57	X	-2.445	-2.445	0	%100
52	M57	Z	1.412	1.412	0	%100
53	M58	X	-.611	-.611	0	%100
54	M58	Z	.353	.353	0	%100
55	M59	X	-.611	-.611	0	%100
56	M59	Z	.353	.353	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft, F...	End Magnitude[lb/ft, F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-3.768	-3.768	0 %100
2	M4	Z	0	0	0 %100
3	M68B	X	0	0	0 %100
4	M68B	Z	0	0	0 %100
5	M25A	X	-2.826	-2.826	0 %100
6	M25A	Z	0	0	0 %100
7	M26A	X	-2.826	-2.826	0 %100
8	M26A	Z	0	0	0 %100
9	M25	X	-0.942	-0.942	0 %100
10	M25	Z	0	0	0 %100
11	M26	X	-0.942	-0.942	0 %100
12	M26	Z	0	0	0 %100
13	MP4A	X	-2.727	-2.727	0 %100
14	MP4A	Z	0	0	0 %100
15	MP3A	X	-2.727	-2.727	0 %100
16	MP3A	Z	0	0	0 %100
17	MP2A	X	-3.017	-3.017	0 %100
18	MP2A	Z	0	0	0 %100
19	MP1A	X	-2.727	-2.727	0 %100
20	MP1A	Z	0	0	0 %100
21	MP3C	X	-3.017	-3.017	0 %100
22	MP3C	Z	0	0	0 %100
23	MP2C	X	-3.017	-3.017	0 %100
24	MP2C	Z	0	0	0 %100
25	MP1C	X	-2.727	-2.727	0 %100
26	MP1C	Z	0	0	0 %100
27	MP3B	X	-2.727	-2.727	0 %100
28	MP3B	Z	0	0	0 %100
29	MP2B	X	-3.017	-3.017	0 %100
30	MP2B	Z	0	0	0 %100
31	MP1B	X	-2.727	-2.727	0 %100
32	MP1B	Z	0	0	0 %100
33	OVP	X	-2.727	-2.727	0 %100
34	OVP	Z	0	0	0 %100
35	M33	X	-3.715	-3.715	0 %100
36	M33	Z	0	0	0 %100
37	M34	X	-3.284	-3.284	0 %100
38	M34	Z	0	0	0 %100
39	M35	X	-3.284	-3.284	0 %100
40	M35	Z	0	0	0 %100
41	M36	X	0	0	0 %100
42	M36	Z	0	0	0 %100
43	MP4C	X	-2.727	-2.727	0 %100
44	MP4C	Z	0	0	0 %100
45	M39A	X	-2.263	-2.263	0 %100
46	M39A	Z	0	0	0 %100
47	MP4B	X	-2.727	-2.727	0 %100
48	MP4B	Z	0	0	0 %100
49	M43	X	-2.263	-2.263	0 %100
50	M43	Z	0	0	0 %100
51	M57	X	-2.117	-2.117	0 %100
52	M57	Z	0	0	0 %100
53	M58	X	0	0	0 %100
54	M58	Z	0	0	0 %100
55	M59	X	-2.117	-2.117	0 %100
56	M59	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M4	X	-2.447	-2.447	0 %100
2	M4	Z	-1.413	-1.413	0 %100
3	M68B	X	-.816	-.816	0 %100
4	M68B	Z	-.471	-.471	0 %100
5	M25A	X	-.816	-.816	0 %100
6	M25A	Z	-.471	-.471	0 %100
7	M26A	X	-3.264	-3.264	0 %100
8	M26A	Z	-1.884	-1.884	0 %100
9	M25	X	-2.447	-2.447	0 %100
10	M25	Z	-1.413	-1.413	0 %100
11	M26	X	0	0	0 %100
12	M26	Z	0	0	0 %100
13	MP4A	X	-2.361	-2.361	0 %100
14	MP4A	Z	-1.363	-1.363	0 %100
15	MP3A	X	-2.361	-2.361	0 %100
16	MP3A	Z	-1.363	-1.363	0 %100
17	MP2A	X	-2.613	-2.613	0 %100
18	MP2A	Z	-1.509	-1.509	0 %100
19	MP1A	X	-2.361	-2.361	0 %100
20	MP1A	Z	-1.363	-1.363	0 %100
21	MP3C	X	-2.613	-2.613	0 %100
22	MP3C	Z	-1.509	-1.509	0 %100
23	MP2C	X	-2.613	-2.613	0 %100
24	MP2C	Z	-1.509	-1.509	0 %100
25	MP1C	X	-2.361	-2.361	0 %100
26	MP1C	Z	-1.363	-1.363	0 %100
27	MP3B	X	-2.361	-2.361	0 %100
28	MP3B	Z	-1.363	-1.363	0 %100
29	MP2B	X	-2.613	-2.613	0 %100
30	MP2B	Z	-1.509	-1.509	0 %100
31	MP1B	X	-2.361	-2.361	0 %100
32	MP1B	Z	-1.363	-1.363	0 %100
33	OVP	X	-2.361	-2.361	0 %100
34	OVP	Z	-1.363	-1.363	0 %100
35	M33	X	-3.093	-3.093	0 %100
36	M33	Z	-1.786	-1.786	0 %100
37	M34	X	-3.093	-3.093	0 %100
38	M34	Z	-1.786	-1.786	0 %100
39	M35	X	-2.72	-2.72	0 %100
40	M35	Z	-1.57	-1.57	0 %100
41	M36	X	-.653	-.653	0 %100
42	M36	Z	-.377	-.377	0 %100
43	MP4C	X	-2.361	-2.361	0 %100
44	MP4C	Z	-1.363	-1.363	0 %100
45	M39A	X	-.653	-.653	0 %100
46	M39A	Z	-.377	-.377	0 %100
47	MP4B	X	-2.361	-2.361	0 %100
48	MP4B	Z	-1.363	-1.363	0 %100
49	M43	X	-2.613	-2.613	0 %100
50	M43	Z	-1.509	-1.509	0 %100
51	M57	X	-.611	-.611	0 %100
52	M57	Z	-.353	-.353	0 %100
53	M58	X	-.611	-.611	0 %100
54	M58	Z	-.353	-.353	0 %100
55	M59	X	-2.445	-2.445	0 %100
56	M59	Z	-1.412	-1.412	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	-471	-471	0 %100
2	M4	Z	-816	-816	0 %100
3	M68B	X	-1.413	-1.413	0 %100
4	M68B	Z	-2.448	-2.448	0 %100
5	M25A	X	0	0	0 %100
6	M25A	Z	0	0	0 %100
7	M26A	X	-1.413	-1.413	0 %100
8	M26A	Z	-2.448	-2.448	0 %100
9	M25	X	-1.884	-1.884	0 %100
10	M25	Z	-3.263	-3.263	0 %100
11	M26	X	-471	-471	0 %100
12	M26	Z	-816	-816	0 %100
13	MP4A	X	-1.363	-1.363	0 %100
14	MP4A	Z	-2.361	-2.361	0 %100
15	MP3A	X	-1.363	-1.363	0 %100
16	MP3A	Z	-2.361	-2.361	0 %100
17	MP2A	X	-1.509	-1.509	0 %100
18	MP2A	Z	-2.613	-2.613	0 %100
19	MP1A	X	-1.363	-1.363	0 %100
20	MP1A	Z	-2.361	-2.361	0 %100
21	MP3C	X	-1.509	-1.509	0 %100
22	MP3C	Z	-2.613	-2.613	0 %100
23	MP2C	X	-1.509	-1.509	0 %100
24	MP2C	Z	-2.613	-2.613	0 %100
25	MP1C	X	-1.363	-1.363	0 %100
26	MP1C	Z	-2.361	-2.361	0 %100
27	MP3B	X	-1.363	-1.363	0 %100
28	MP3B	Z	-2.361	-2.361	0 %100
29	MP2B	X	-1.509	-1.509	0 %100
30	MP2B	Z	-2.613	-2.613	0 %100
31	MP1B	X	-1.363	-1.363	0 %100
32	MP1B	Z	-2.361	-2.361	0 %100
33	OVP	X	-1.363	-1.363	0 %100
34	OVP	Z	-2.361	-2.361	0 %100
35	M33	X	-1.642	-1.642	0 %100
36	M33	Z	-2.844	-2.844	0 %100
37	M34	X	-1.857	-1.857	0 %100
38	M34	Z	-3.217	-3.217	0 %100
39	M35	X	-1.642	-1.642	0 %100
40	M35	Z	-2.844	-2.844	0 %100
41	M36	X	-1.132	-1.132	0 %100
42	M36	Z	-1.96	-1.96	0 %100
43	MP4C	X	-1.363	-1.363	0 %100
44	MP4C	Z	-2.361	-2.361	0 %100
45	M39A	X	0	0	0 %100
46	M39A	Z	0	0	0 %100
47	MP4B	X	-1.363	-1.363	0 %100
48	MP4B	Z	-2.361	-2.361	0 %100
49	M43	X	-1.132	-1.132	0 %100
50	M43	Z	-1.96	-1.96	0 %100
51	M57	X	0	0	0 %100
52	M57	Z	0	0	0 %100
53	M58	X	-1.059	-1.059	0 %100
54	M58	Z	-1.834	-1.834	0 %100
55	M59	X	-1.059	-1.059	0 %100
56	M59	Z	-1.834	-1.834	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M68B	X	0	0	0	%100
4	M68B	Z	-0.872	-0.872	0	%100
5	M25A	X	0	0	0	%100
6	M25A	Z	-0.218	-0.218	0	%100
7	M26A	X	0	0	0	%100
8	M26A	Z	-0.218	-0.218	0	%100
9	M25	X	0	0	0	%100
10	M25	Z	-0.654	-0.654	0	%100
11	M26	X	0	0	0	%100
12	M26	Z	-0.654	-0.654	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	-0.497	-0.497	0	%100
15	MP3A	X	0	0	0	%100
16	MP3A	Z	-0.497	-0.497	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	-0.602	-0.602	0	%100
19	MP1A	X	0	0	0	%100
20	MP1A	Z	-0.497	-0.497	0	%100
21	MP3C	X	0	0	0	%100
22	MP3C	Z	-0.602	-0.602	0	%100
23	MP2C	X	0	0	0	%100
24	MP2C	Z	-0.602	-0.602	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	-0.497	-0.497	0	%100
27	MP3B	X	0	0	0	%100
28	MP3B	Z	-0.497	-0.497	0	%100
29	MP2B	X	0	0	0	%100
30	MP2B	Z	-0.602	-0.602	0	%100
31	MP1B	X	0	0	0	%100
32	MP1B	Z	-0.497	-0.497	0	%100
33	OVP	X	0	0	0	%100
34	OVP	Z	-0.497	-0.497	0	%100
35	M33	X	0	0	0	%100
36	M33	Z	-0.881	-0.881	0	%100
37	M34	X	0	0	0	%100
38	M34	Z	-0.888	-0.888	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	-0.888	-0.888	0	%100
41	M36	X	0	0	0	%100
42	M36	Z	-0.602	-0.602	0	%100
43	MP4C	X	0	0	0	%100
44	MP4C	Z	-0.497	-0.497	0	%100
45	M39A	X	0	0	0	%100
46	M39A	Z	-0.15	-0.15	0	%100
47	MP4B	X	0	0	0	%100
48	MP4B	Z	-0.497	-0.497	0	%100
49	M43	X	0	0	0	%100
50	M43	Z	-0.15	-0.15	0	%100
51	M57	X	0	0	0	%100
52	M57	Z	-0.173	-0.173	0	%100
53	M58	X	0	0	0	%100
54	M58	Z	-0.694	-0.694	0	%100
55	M59	X	0	0	0	%100
56	M59	Z	-0.173	-0.173	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft, F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	.109	.109	0 %100
2	M4	Z	-.189	-.189	0 %100
3	M68B	X	.327	.327	0 %100
4	M68B	Z	-.566	-.566	0 %100
5	M25A	X	.327	.327	0 %100
6	M25A	Z	-.566	-.566	0 %100
7	M26A	X	0	0	0 %100
8	M26A	Z	0	0	0 %100
9	M25	X	.109	.109	0 %100
10	M25	Z	-.189	-.189	0 %100
11	M26	X	.436	.436	0 %100
12	M26	Z	-.755	-.755	0 %100
13	MP4A	X	.249	.249	0 %100
14	MP4A	Z	-.43	-.43	0 %100
15	MP3A	X	.249	.249	0 %100
16	MP3A	Z	-.43	-.43	0 %100
17	MP2A	X	.301	.301	0 %100
18	MP2A	Z	-.521	-.521	0 %100
19	MP1A	X	.249	.249	0 %100
20	MP1A	Z	-.43	-.43	0 %100
21	MP3C	X	.301	.301	0 %100
22	MP3C	Z	-.521	-.521	0 %100
23	MP2C	X	.301	.301	0 %100
24	MP2C	Z	-.521	-.521	0 %100
25	MP1C	X	.249	.249	0 %100
26	MP1C	Z	-.43	-.43	0 %100
27	MP3B	X	.249	.249	0 %100
28	MP3B	Z	-.43	-.43	0 %100
29	MP2B	X	.301	.301	0 %100
30	MP2B	Z	-.521	-.521	0 %100
31	MP1B	X	.249	.249	0 %100
32	MP1B	Z	-.43	-.43	0 %100
33	OVP	X	.249	.249	0 %100
34	OVP	Z	-.43	-.43	0 %100
35	M33	X	.442	.442	0 %100
36	M33	Z	-.765	-.765	0 %100
37	M34	X	.442	.442	0 %100
38	M34	Z	-.765	-.765	0 %100
39	M35	X	.445	.445	0 %100
40	M35	Z	-.771	-.771	0 %100
41	M36	X	.226	.226	0 %100
42	M36	Z	-.391	-.391	0 %100
43	MP4C	X	.249	.249	0 %100
44	MP4C	Z	-.43	-.43	0 %100
45	M39A	X	.226	.226	0 %100
46	M39A	Z	-.391	-.391	0 %100
47	MP4B	X	.249	.249	0 %100
48	MP4B	Z	-.43	-.43	0 %100
49	M43	X	0	0	0 %100
50	M43	Z	0	0	0 %100
51	M57	X	.26	.26	0 %100
52	M57	Z	-.451	-.451	0 %100
53	M58	X	.26	.26	0 %100
54	M58	Z	-.451	-.451	0 %100
55	M59	X	0	0	0 %100
56	M59	Z	0	0	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	.566	.566	0 %100
2	M4	Z	-.327	-.327	0 %100
3	M68B	X	.189	.189	0 %100
4	M68B	Z	-.109	-.109	0 %100
5	M25A	X	.755	.755	0 %100
6	M25A	Z	-.436	-.436	0 %100
7	M26A	X	.189	.189	0 %100
8	M26A	Z	-.109	-.109	0 %100
9	M25	X	0	0	0 %100
10	M25	Z	0	0	0 %100
11	M26	X	.566	.566	0 %100
12	M26	Z	-.327	-.327	0 %100
13	MP4A	X	.43	.43	0 %100
14	MP4A	Z	-.249	-.249	0 %100
15	MP3A	X	.43	.43	0 %100
16	MP3A	Z	-.249	-.249	0 %100
17	MP2A	X	.521	.521	0 %100
18	MP2A	Z	-.301	-.301	0 %100
19	MP1A	X	.43	.43	0 %100
20	MP1A	Z	-.249	-.249	0 %100
21	MP3C	X	.521	.521	0 %100
22	MP3C	Z	-.301	-.301	0 %100
23	MP2C	X	.521	.521	0 %100
24	MP2C	Z	-.301	-.301	0 %100
25	MP1C	X	.43	.43	0 %100
26	MP1C	Z	-.249	-.249	0 %100
27	MP3B	X	.43	.43	0 %100
28	MP3B	Z	-.249	-.249	0 %100
29	MP2B	X	.521	.521	0 %100
30	MP2B	Z	-.301	-.301	0 %100
31	MP1B	X	.43	.43	0 %100
32	MP1B	Z	-.249	-.249	0 %100
33	OVP	X	.43	.43	0 %100
34	OVP	Z	-.249	-.249	0 %100
35	M33	X	.769	.769	0 %100
36	M33	Z	-.444	-.444	0 %100
37	M34	X	.763	.763	0 %100
38	M34	Z	-.441	-.441	0 %100
39	M35	X	.769	.769	0 %100
40	M35	Z	-.444	-.444	0 %100
41	M36	X	.13	.13	0 %100
42	M36	Z	-.075	-.075	0 %100
43	MP4C	X	.43	.43	0 %100
44	MP4C	Z	-.249	-.249	0 %100
45	M39A	X	.521	.521	0 %100
46	M39A	Z	-.301	-.301	0 %100
47	MP4B	X	.43	.43	0 %100
48	MP4B	Z	-.249	-.249	0 %100
49	M43	X	.13	.13	0 %100
50	M43	Z	-.075	-.075	0 %100
51	M57	X	.601	.601	0 %100
52	M57	Z	-.347	-.347	0 %100
53	M58	X	.15	.15	0 %100
54	M58	Z	-.087	-.087	0 %100
55	M59	X	.15	.15	0 %100
56	M59	Z	-.087	-.087	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	.872	.872	0 %100
2	M4	Z	0	0	0 %100
3	M68B	X	0	0	0 %100
4	M68B	Z	0	0	0 %100
5	M25A	X	.654	.654	0 %100
6	M25A	Z	0	0	0 %100
7	M26A	X	.654	.654	0 %100
8	M26A	Z	0	0	0 %100
9	M25	X	.218	.218	0 %100
10	M25	Z	0	0	0 %100
11	M26	X	.218	.218	0 %100
12	M26	Z	0	0	0 %100
13	MP4A	X	.497	.497	0 %100
14	MP4A	Z	0	0	0 %100
15	MP3A	X	.497	.497	0 %100
16	MP3A	Z	0	0	0 %100
17	MP2A	X	.602	.602	0 %100
18	MP2A	Z	0	0	0 %100
19	MP1A	X	.497	.497	0 %100
20	MP1A	Z	0	0	0 %100
21	MP3C	X	.602	.602	0 %100
22	MP3C	Z	0	0	0 %100
23	MP2C	X	.602	.602	0 %100
24	MP2C	Z	0	0	0 %100
25	MP1C	X	.497	.497	0 %100
26	MP1C	Z	0	0	0 %100
27	MP3B	X	.497	.497	0 %100
28	MP3B	Z	0	0	0 %100
29	MP2B	X	.602	.602	0 %100
30	MP2B	Z	0	0	0 %100
31	MP1B	X	.497	.497	0 %100
32	MP1B	Z	0	0	0 %100
33	OVP	X	.497	.497	0 %100
34	OVP	Z	0	0	0 %100
35	M33	X	.89	.89	0 %100
36	M33	Z	0	0	0 %100
37	M34	X	.883	.883	0 %100
38	M34	Z	0	0	0 %100
39	M35	X	.883	.883	0 %100
40	M35	Z	0	0	0 %100
41	M36	X	0	0	0 %100
42	M36	Z	0	0	0 %100
43	MP4C	X	.497	.497	0 %100
44	MP4C	Z	0	0	0 %100
45	M39A	X	.451	.451	0 %100
46	M39A	Z	0	0	0 %100
47	MP4B	X	.497	.497	0 %100
48	MP4B	Z	0	0	0 %100
49	M43	X	.451	.451	0 %100
50	M43	Z	0	0	0 %100
51	M57	X	.52	.52	0 %100
52	M57	Z	0	0	0 %100
53	M58	X	0	0	0 %100
54	M58	Z	0	0	0 %100
55	M59	X	.52	.52	0 %100
56	M59	Z	0	0	0 %100





Company : Colliers Engineering & Design  
 Designer : ILR  
 Job Number : Project No. 10208046  
 Model Name : 5000243734-VZW\_MT\_LO\_H

Aug 1, 2023  
 4:42 PM  
 Checked By: DX

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

Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft,F...]	Start Location[ft.%]	End Location[ft.%]
1	M4	X	.566	.566	0 %100
2	M4	Z	.327	.327	0 %100
3	M68B	X	.189	.189	0 %100
4	M68B	Z	.109	.109	0 %100
5	M25A	X	.189	.189	0 %100
6	M25A	Z	.109	.109	0 %100
7	M26A	X	.755	.755	0 %100
8	M26A	Z	.436	.436	0 %100
9	M25	X	.566	.566	0 %100
10	M25	Z	.327	.327	0 %100
11	M26	X	0	0	0 %100
12	M26	Z	0	0	0 %100
13	MP4A	X	.43	.43	0 %100
14	MP4A	Z	.249	.249	0 %100
15	MP3A	X	.43	.43	0 %100
16	MP3A	Z	.249	.249	0 %100
17	MP2A	X	.521	.521	0 %100
18	MP2A	Z	.301	.301	0 %100
19	MP1A	X	.43	.43	0 %100
20	MP1A	Z	.249	.249	0 %100
21	MP3C	X	.521	.521	0 %100
22	MP3C	Z	.301	.301	0 %100
23	MP2C	X	.521	.521	0 %100
24	MP2C	Z	.301	.301	0 %100
25	MP1C	X	.43	.43	0 %100
26	MP1C	Z	.249	.249	0 %100
27	MP3B	X	.43	.43	0 %100
28	MP3B	Z	.249	.249	0 %100
29	MP2B	X	.521	.521	0 %100
30	MP2B	Z	.301	.301	0 %100
31	MP1B	X	.43	.43	0 %100
32	MP1B	Z	.249	.249	0 %100
33	OVP	X	.43	.43	0 %100
34	OVP	Z	.249	.249	0 %100
35	M33	X	.769	.769	0 %100
36	M33	Z	.444	.444	0 %100
37	M34	X	.769	.769	0 %100
38	M34	Z	.444	.444	0 %100
39	M35	X	.763	.763	0 %100
40	M35	Z	.441	.441	0 %100
41	M36	X	.13	.13	0 %100
42	M36	Z	.075	.075	0 %100
43	MP4C	X	.43	.43	0 %100
44	MP4C	Z	.249	.249	0 %100
45	M39A	X	.13	.13	0 %100
46	M39A	Z	.075	.075	0 %100
47	MP4B	X	.43	.43	0 %100
48	MP4B	Z	.249	.249	0 %100
49	M43	X	.521	.521	0 %100
50	M43	Z	.301	.301	0 %100
51	M57	X	.15	.15	0 %100
52	M57	Z	.087	.087	0 %100
53	M58	X	.15	.15	0 %100
54	M58	Z	.087	.087	0 %100
55	M59	X	.601	.601	0 %100
56	M59	Z	.347	.347	0 %100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M4	X	0	0	%100
2	M4	Z	0	0	%100
3	M68B	X	0	0	%100
4	M68B	Z	.872	.872	%100
5	M25A	X	0	0	%100
6	M25A	Z	.218	.218	%100
7	M26A	X	0	0	%100
8	M26A	Z	.218	.218	%100
9	M25	X	0	0	%100
10	M25	Z	.654	.654	%100
11	M26	X	0	0	%100
12	M26	Z	.654	.654	%100
13	MP4A	X	0	0	%100
14	MP4A	Z	.497	.497	%100
15	MP3A	X	0	0	%100
16	MP3A	Z	.497	.497	%100
17	MP2A	X	0	0	%100
18	MP2A	Z	.602	.602	%100
19	MP1A	X	0	0	%100
20	MP1A	Z	.497	.497	%100
21	MP3C	X	0	0	%100
22	MP3C	Z	.602	.602	%100
23	MP2C	X	0	0	%100
24	MP2C	Z	.602	.602	%100
25	MP1C	X	0	0	%100
26	MP1C	Z	.497	.497	%100
27	MP3B	X	0	0	%100
28	MP3B	Z	.497	.497	%100
29	MP2B	X	0	0	%100
30	MP2B	Z	.602	.602	%100
31	MP1B	X	0	0	%100
32	MP1B	Z	.497	.497	%100
33	OVP	X	0	0	%100
34	OVP	Z	.497	.497	%100
35	M33	X	0	0	%100
36	M33	Z	.881	.881	%100
37	M34	X	0	0	%100
38	M34	Z	.888	.888	%100
39	M35	X	0	0	%100
40	M35	Z	.888	.888	%100
41	M36	X	0	0	%100
42	M36	Z	.602	.602	%100
43	MP4C	X	0	0	%100
44	MP4C	Z	.497	.497	%100
45	M39A	X	0	0	%100
46	M39A	Z	.15	.15	%100
47	MP4B	X	0	0	%100
48	MP4B	Z	.497	.497	%100
49	M43	X	0	0	%100
50	M43	Z	.15	.15	%100
51	M57	X	0	0	%100
52	M57	Z	.173	.173	%100
53	M58	X	0	0	%100
54	M58	Z	.694	.694	%100
55	M59	X	0	0	%100
56	M59	Z	.173	.173	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft.%,]	End Location[ft.%,]
1	M4	X	-566	-566	0 %100
2	M4	Z	327	327	0 %100
3	M68B	X	-189	-189	0 %100
4	M68B	Z	109	109	0 %100
5	M25A	X	-755	-755	0 %100
6	M25A	Z	436	436	0 %100
7	M26A	X	-189	-189	0 %100
8	M26A	Z	109	109	0 %100
9	M25	X	0	0	0 %100
10	M25	Z	0	0	0 %100
11	M26	X	-566	-566	0 %100
12	M26	Z	327	327	0 %100
13	MP4A	X	-43	-43	0 %100
14	MP4A	Z	249	249	0 %100
15	MP3A	X	-43	-43	0 %100
16	MP3A	Z	249	249	0 %100
17	MP2A	X	-521	-521	0 %100
18	MP2A	Z	301	301	0 %100
19	MP1A	X	-43	-43	0 %100
20	MP1A	Z	249	249	0 %100
21	MP3C	X	-521	-521	0 %100
22	MP3C	Z	301	301	0 %100
23	MP2C	X	-521	-521	0 %100
24	MP2C	Z	301	301	0 %100
25	MP1C	X	-43	-43	0 %100
26	MP1C	Z	249	249	0 %100
27	MP3B	X	-43	-43	0 %100
28	MP3B	Z	249	249	0 %100
29	MP2B	X	-521	-521	0 %100
30	MP2B	Z	301	301	0 %100
31	MP1B	X	-43	-43	0 %100
32	MP1B	Z	249	249	0 %100
33	OVP	X	-43	-43	0 %100
34	OVP	Z	249	249	0 %100
35	M33	X	-769	-769	0 %100
36	M33	Z	444	444	0 %100
37	M34	X	-763	-763	0 %100
38	M34	Z	441	441	0 %100
39	M35	X	-769	-769	0 %100
40	M35	Z	444	444	0 %100
41	M36	X	-13	-13	0 %100
42	M36	Z	075	075	0 %100
43	MP4C	X	-43	-43	0 %100
44	MP4C	Z	249	249	0 %100
45	M39A	X	-521	-521	0 %100
46	M39A	Z	301	301	0 %100
47	MP4B	X	-43	-43	0 %100
48	MP4B	Z	249	249	0 %100
49	M43	X	-13	-13	0 %100
50	M43	Z	075	075	0 %100
51	M57	X	-601	-601	0 %100
52	M57	Z	347	347	0 %100
53	M58	X	-15	-15	0 %100
54	M58	Z	087	087	0 %100
55	M59	X	-15	-15	0 %100
56	M59	Z	087	087	0 %100





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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M4	X	-.566	-.566	0	%100
2	M4	Z	-.327	-.327	0	%100
3	M68B	X	-.189	-.189	0	%100
4	M68B	Z	-.109	-.109	0	%100
5	M25A	X	-.189	-.189	0	%100
6	M25A	Z	-.109	-.109	0	%100
7	M26A	X	-.755	-.755	0	%100
8	M26A	Z	-.436	-.436	0	%100
9	M25	X	-.566	-.566	0	%100
10	M25	Z	-.327	-.327	0	%100
11	M26	X	0	0	0	%100
12	M26	Z	0	0	0	%100
13	MP4A	X	-.43	-.43	0	%100
14	MP4A	Z	-.249	-.249	0	%100
15	MP3A	X	-.43	-.43	0	%100
16	MP3A	Z	-.249	-.249	0	%100
17	MP2A	X	-.521	-.521	0	%100
18	MP2A	Z	-.301	-.301	0	%100
19	MP1A	X	-.43	-.43	0	%100
20	MP1A	Z	-.249	-.249	0	%100
21	MP3C	X	-.521	-.521	0	%100
22	MP3C	Z	-.301	-.301	0	%100
23	MP2C	X	-.521	-.521	0	%100
24	MP2C	Z	-.301	-.301	0	%100
25	MP1C	X	-.43	-.43	0	%100
26	MP1C	Z	-.249	-.249	0	%100
27	MP3B	X	-.43	-.43	0	%100
28	MP3B	Z	-.249	-.249	0	%100
29	MP2B	X	-.521	-.521	0	%100
30	MP2B	Z	-.301	-.301	0	%100
31	MP1B	X	-.43	-.43	0	%100
32	MP1B	Z	-.249	-.249	0	%100
33	OVP	X	-.43	-.43	0	%100
34	OVP	Z	-.249	-.249	0	%100
35	M33	X	-.769	-.769	0	%100
36	M33	Z	-.444	-.444	0	%100
37	M34	X	-.769	-.769	0	%100
38	M34	Z	-.444	-.444	0	%100
39	M35	X	-.763	-.763	0	%100
40	M35	Z	-.441	-.441	0	%100
41	M36	X	-.13	-.13	0	%100
42	M36	Z	-.075	-.075	0	%100
43	MP4C	X	-.43	-.43	0	%100
44	MP4C	Z	-.249	-.249	0	%100
45	M39A	X	-.13	-.13	0	%100
46	M39A	Z	-.075	-.075	0	%100
47	MP4B	X	-.43	-.43	0	%100
48	MP4B	Z	-.249	-.249	0	%100
49	M43	X	-.521	-.521	0	%100
50	M43	Z	-.301	-.301	0	%100
51	M57	X	-.15	-.15	0	%100
52	M57	Z	-.087	-.087	0	%100
53	M58	X	-.15	-.15	0	%100
54	M58	Z	-.087	-.087	0	%100
55	M59	X	-.601	-.601	0	%100
56	M59	Z	-.347	-.347	0	%100







**Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)**

Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]	
1	M68B	Y	-2.96	-2.96	1.972	2.541
2	M68B	Y	-2.96	-4.44	2.541	3.111
3	M68B	Y	-4.44	-5.92	3.111	3.68
4	M68B	Y	-5.92	-5.92	3.68	4.25
5	M68B	Y	-5.92	-5.92	4.25	4.819
6	M68B	Y	-5.92	-5.92	4.819	5.389
7	M68B	Y	-5.92	-5.92	5.389	5.958
8	M68B	Y	-5.92	-5.92	5.958	6.528
9	M68B	Y	-5.92	-5.92	6.528	7.097
10	M68B	Y	-5.92	-5.92	7.097	7.666
11	M68B	Y	-5.92	-5.92	7.666	8.236
12	M68B	Y	-5.92	-5.92	8.236	8.805
13	M68B	Y	-5.92	-5.92	8.805	9.375
14	M68B	Y	-5.92	-5.92	9.375	9.944
15	M68B	Y	-5.92	-5.92	9.944	10.514
16	M68B	Y	-5.92	-4.44	10.514	11.083
17	M68B	Y	-4.44	-2.96	11.083	11.653
18	M68B	Y	-2.96	-2.96	11.653	12.222
19	M25	Y	-6.836	-6.836	3.459	4.446
20	M26	Y	-6.836	-6.836	3.459	4.446
21	M4	Y	-6.836	-6.836	3.459	4.446
22	M26A	Y	-2.96	-2.96	1.972	2.541
23	M26A	Y	-2.96	-4.44	2.541	3.111
24	M26A	Y	-4.44	-5.92	3.111	3.68
25	M26A	Y	-5.92	-5.92	3.68	4.25
26	M26A	Y	-5.92	-5.92	4.25	4.819
27	M26A	Y	-5.92	-5.92	4.819	5.389
28	M26A	Y	-5.92	-5.92	5.389	5.958
29	M26A	Y	-5.92	-5.92	5.958	6.528
30	M26A	Y	-5.92	-5.92	6.528	7.097
31	M26A	Y	-5.92	-5.92	7.097	7.666
32	M26A	Y	-5.92	-5.92	7.666	8.236
33	M26A	Y	-5.92	-5.92	8.236	8.805
34	M26A	Y	-5.92	-5.92	8.805	9.375
35	M26A	Y	-5.92	-5.92	9.375	9.944
36	M26A	Y	-5.92	-5.92	9.944	10.514
37	M26A	Y	-5.92	-4.44	10.514	11.083
38	M26A	Y	-4.44	-2.96	11.083	11.653
39	M26A	Y	-2.96	-2.96	11.653	12.222
40	M25A	Y	-2.96	-2.96	1.972	2.541
41	M25A	Y	-2.96	-4.44	2.541	3.111
42	M25A	Y	-4.44	-5.92	3.111	3.68
43	M25A	Y	-5.92	-5.92	3.68	4.25
44	M25A	Y	-5.92	-5.92	4.25	4.819
45	M25A	Y	-5.92	-5.92	4.819	5.389
46	M25A	Y	-5.92	-5.92	5.389	5.958
47	M25A	Y	-5.92	-5.92	5.958	6.528
48	M25A	Y	-5.92	-5.92	6.528	7.097
49	M25A	Y	-5.92	-5.92	7.097	7.666
50	M25A	Y	-5.92	-5.92	7.666	8.236
51	M25A	Y	-5.92	-5.92	8.236	8.805
52	M25A	Y	-5.92	-5.92	8.805	9.375
53	M25A	Y	-5.92	-5.92	9.375	9.944
54	M25A	Y	-5.92	-5.92	9.944	10.514
55	M25A	Y	-5.92	-4.44	10.514	11.083
56	M25A	Y	-4.44	-2.96	11.083	11.653
57	M25A	Y	-2.96	-2.96	11.653	12.222



**Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft. ....]	End Magnitude[lb/ft. ....]	Start Location[ft. %]	End Location[ft. %]
1	M68B	Y	-5.733	-5.733	1.972	2.541
2	M68B	Y	-5.733	-8.599	2.541	3.111
3	M68B	Y	-8.599	-11.465	3.111	3.68
4	M68B	Y	-11.465	-11.465	3.68	4.25
5	M68B	Y	-11.465	-11.465	4.25	4.819
6	M68B	Y	-11.465	-11.465	4.819	5.389
7	M68B	Y	-11.465	-11.465	5.389	5.958
8	M68B	Y	-11.465	-11.465	5.958	6.528
9	M68B	Y	-11.465	-11.465	6.528	7.097
10	M68B	Y	-11.465	-11.465	7.097	7.666
11	M68B	Y	-11.465	-11.465	7.666	8.236
12	M68B	Y	-11.465	-11.465	8.236	8.805
13	M68B	Y	-11.465	-11.465	8.805	9.375
14	M68B	Y	-11.465	-11.465	9.375	9.944
15	M68B	Y	-11.465	-11.465	9.944	10.514
16	M68B	Y	-11.465	-8.599	10.514	11.083
17	M68B	Y	-8.599	-5.733	11.083	11.653
18	M68B	Y	-5.733	-5.733	11.653	12.222
19	M25	Y	-13.239	-13.239	3.459	4.446
20	M26	Y	-13.239	-13.239	3.459	4.446
21	M4	Y	-13.239	-13.239	3.459	4.446
22	M26A	Y	-5.733	-5.733	1.972	2.541
23	M26A	Y	-5.733	-8.599	2.541	3.111
24	M26A	Y	-8.599	-11.465	3.111	3.68
25	M26A	Y	-11.465	-11.465	3.68	4.25
26	M26A	Y	-11.465	-11.465	4.25	4.819
27	M26A	Y	-11.465	-11.465	4.819	5.389
28	M26A	Y	-11.465	-11.465	5.389	5.958
29	M26A	Y	-11.465	-11.465	5.958	6.528
30	M26A	Y	-11.465	-11.465	6.528	7.097
31	M26A	Y	-11.465	-11.465	7.097	7.666
32	M26A	Y	-11.465	-11.465	7.666	8.236
33	M26A	Y	-11.465	-11.465	8.236	8.805
34	M26A	Y	-11.465	-11.465	8.805	9.375
35	M26A	Y	-11.465	-11.465	9.375	9.944
36	M26A	Y	-11.465	-11.465	9.944	10.514
37	M26A	Y	-11.465	-8.599	10.514	11.083
38	M26A	Y	-8.599	-5.733	11.083	11.653
39	M26A	Y	-5.733	-5.733	11.653	12.222
40	M25A	Y	-5.733	-5.733	1.972	2.541
41	M25A	Y	-5.733	-8.599	2.541	3.111
42	M25A	Y	-8.599	-11.465	3.111	3.68
43	M25A	Y	-11.465	-11.465	3.68	4.25
44	M25A	Y	-11.465	-11.465	4.25	4.819
45	M25A	Y	-11.465	-11.465	4.819	5.389
46	M25A	Y	-11.465	-11.465	5.389	5.958
47	M25A	Y	-11.465	-11.465	5.958	6.528
48	M25A	Y	-11.465	-11.465	6.528	7.097
49	M25A	Y	-11.465	-11.465	7.097	7.666
50	M25A	Y	-11.465	-11.465	7.666	8.236
51	M25A	Y	-11.465	-11.465	8.236	8.805
52	M25A	Y	-11.465	-11.465	8.805	9.375
53	M25A	Y	-11.465	-11.465	9.375	9.944
54	M25A	Y	-11.465	-11.465	9.944	10.514
55	M25A	Y	-11.465	-8.599	10.514	11.083
56	M25A	Y	-8.599	-5.733	11.083	11.653
57	M25A	Y	-5.733	-5.733	11.653	12.222



**Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M68B	Z	-0.89	-0.89	1.972	2.541
2	M68B	Z	-0.89	-1.33	2.541	3.111
3	M68B	Z	-1.33	-1.78	3.111	3.68
4	M68B	Z	-1.78	-1.78	3.68	4.25
5	M68B	Z	-1.78	-1.78	4.25	4.819
6	M68B	Z	-1.78	-1.78	4.819	5.389
7	M68B	Z	-1.78	-1.78	5.389	5.958
8	M68B	Z	-1.78	-1.78	5.958	6.528
9	M68B	Z	-1.78	-1.78	6.528	7.097
10	M68B	Z	-1.78	-1.78	7.097	7.666
11	M68B	Z	-1.78	-1.78	7.666	8.236
12	M68B	Z	-1.78	-1.78	8.236	8.805
13	M68B	Z	-1.78	-1.78	8.805	9.375
14	M68B	Z	-1.78	-1.78	9.375	9.944
15	M68B	Z	-1.78	-1.78	9.944	10.514
16	M68B	Z	-1.78	-1.33	10.514	11.083
17	M68B	Z	-1.33	-0.89	11.083	11.653
18	M68B	Z	-0.89	-0.89	11.653	12.222
19	M25	Z	-2.05	-2.05	3.459	4.446
20	M26	Z	-2.05	-2.05	3.459	4.446
21	M4	Z	-2.05	-2.05	3.459	4.446
22	M26A	Z	-0.89	-0.89	1.972	2.541
23	M26A	Z	-0.89	-1.33	2.541	3.111
24	M26A	Z	-1.33	-1.78	3.111	3.68
25	M26A	Z	-1.78	-1.78	3.68	4.25
26	M26A	Z	-1.78	-1.78	4.25	4.819
27	M26A	Z	-1.78	-1.78	4.819	5.389
28	M26A	Z	-1.78	-1.78	5.389	5.958
29	M26A	Z	-1.78	-1.78	5.958	6.528
30	M26A	Z	-1.78	-1.78	6.528	7.097
31	M26A	Z	-1.78	-1.78	7.097	7.666
32	M26A	Z	-1.78	-1.78	7.666	8.236
33	M26A	Z	-1.78	-1.78	8.236	8.805
34	M26A	Z	-1.78	-1.78	8.805	9.375
35	M26A	Z	-1.78	-1.78	9.375	9.944
36	M26A	Z	-1.78	-1.78	9.944	10.514
37	M26A	Z	-1.78	-1.33	10.514	11.083
38	M26A	Z	-1.33	-0.89	11.083	11.653
39	M26A	Z	-0.89	-0.89	11.653	12.222
40	M25A	Z	-0.89	-0.89	1.972	2.541
41	M25A	Z	-0.89	-1.33	2.541	3.111
42	M25A	Z	-1.33	-1.78	3.111	3.68
43	M25A	Z	-1.78	-1.78	3.68	4.25
44	M25A	Z	-1.78	-1.78	4.25	4.819
45	M25A	Z	-1.78	-1.78	4.819	5.389
46	M25A	Z	-1.78	-1.78	5.389	5.958
47	M25A	Z	-1.78	-1.78	5.958	6.528
48	M25A	Z	-1.78	-1.78	6.528	7.097
49	M25A	Z	-1.78	-1.78	7.097	7.666
50	M25A	Z	-1.78	-1.78	7.666	8.236
51	M25A	Z	-1.78	-1.78	8.236	8.805
52	M25A	Z	-1.78	-1.78	8.805	9.375
53	M25A	Z	-1.78	-1.78	9.375	9.944
54	M25A	Z	-1.78	-1.78	9.944	10.514
55	M25A	Z	-1.78	-1.33	10.514	11.083
56	M25A	Z	-1.33	-0.89	11.083	11.653
57	M25A	Z	-0.89	-0.89	11.653	12.222



**Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft.F...	Start Location[ft.%]	End Location[ft.%]
1	M68B	X	.089	.089	1.972	2.541
2	M68B	X	.089	.133	2.541	3.111
3	M68B	X	.133	.178	3.111	3.68
4	M68B	X	.178	.178	3.68	4.25
5	M68B	X	.178	.178	4.25	4.819
6	M68B	X	.178	.178	4.819	5.389
7	M68B	X	.178	.178	5.389	5.958
8	M68B	X	.178	.178	5.958	6.528
9	M68B	X	.178	.178	6.528	7.097
10	M68B	X	.178	.178	7.097	7.666
11	M68B	X	.178	.178	7.666	8.236
12	M68B	X	.178	.178	8.236	8.805
13	M68B	X	.178	.178	8.805	9.375
14	M68B	X	.178	.178	9.375	9.944
15	M68B	X	.178	.178	9.944	10.514
16	M68B	X	.178	.133	10.514	11.083
17	M68B	X	.133	.089	11.083	11.653
18	M68B	X	.089	.089	11.653	12.222
19	M25	X	.205	.205	3.459	4.446
20	M26	X	.205	.205	3.459	4.446
21	M4	X	.205	.205	3.459	4.446
22	M26A	X	.089	.089	1.972	2.541
23	M26A	X	.089	.133	2.541	3.111
24	M26A	X	.133	.178	3.111	3.68
25	M26A	X	.178	.178	3.68	4.25
26	M26A	X	.178	.178	4.25	4.819
27	M26A	X	.178	.178	4.819	5.389
28	M26A	X	.178	.178	5.389	5.958
29	M26A	X	.178	.178	5.958	6.528
30	M26A	X	.178	.178	6.528	7.097
31	M26A	X	.178	.178	7.097	7.666
32	M26A	X	.178	.178	7.666	8.236
33	M26A	X	.178	.178	8.236	8.805
34	M26A	X	.178	.178	8.805	9.375
35	M26A	X	.178	.178	9.375	9.944
36	M26A	X	.178	.178	9.944	10.514
37	M26A	X	.178	.133	10.514	11.083
38	M26A	X	.133	.089	11.083	11.653
39	M26A	X	.089	.089	11.653	12.222
40	M25A	X	.089	.089	1.972	2.541
41	M25A	X	.089	.133	2.541	3.111
42	M25A	X	.133	.178	3.111	3.68
43	M25A	X	.178	.178	3.68	4.25
44	M25A	X	.178	.178	4.25	4.819
45	M25A	X	.178	.178	4.819	5.389
46	M25A	X	.178	.178	5.389	5.958
47	M25A	X	.178	.178	5.958	6.528
48	M25A	X	.178	.178	6.528	7.097
49	M25A	X	.178	.178	7.097	7.666
50	M25A	X	.178	.178	7.666	8.236
51	M25A	X	.178	.178	8.236	8.805
52	M25A	X	.178	.178	8.805	9.375
53	M25A	X	.178	.178	9.375	9.944
54	M25A	X	.178	.178	9.944	10.514
55	M25A	X	.178	.133	10.514	11.083
56	M25A	X	.133	.089	11.083	11.653
57	M25A	X	.089	.089	11.653	12.222



**Member Area Loads (BLC 39 : Structure D)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N80	N77A	N111	N112	Y	Two Way	-.005
2	N78	N80	N115	N116	Y	Two Way	-.005
3	N77A	N78	N113	N114	Y	Two Way	-.005

**Member Area Loads (BLC 40 : Structure Di)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N80	N77A	N111	N112	Y	Two Way	-.01
2	N78	N80	N115	N116	Y	Two Way	-.01
3	N77A	N78	N113	N114	Y	Two Way	-.01

**Member Area Loads (BLC 84 : Structure Ev)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N80	N77A	N111	N112	Y	Two Way	0
2	N78	N80	N115	N116	Y	Two Way	0
3	N77A	N78	N113	N114	Y	Two Way	0

**Member Area Loads (BLC 85 : Structure Eh (0 Deg))**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N80	N77A	N111	N112	Z	Two Way	-.000156
2	N78	N80	N115	N116	Z	Two Way	-.000156
3	N77A	N78	N113	N114	Z	Two Way	-.000156

**Member Area Loads (BLC 86 : Structure Eh (90 Deg))**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N80	N77A	N111	N112	X	Two Way	.000156
2	N78	N80	N115	N116	X	Two Way	.000156
3	N77A	N78	N113	N114	X	Two Way	.000156

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

Member	Shape	Code C...	Loc[ft]	LC Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn		
1	M4	HSS4X4X4	.334	2.69	23	.073	2.69	y	15	104348.4...	139518	16.181	16.181	2...	H1-1b
2	M68B	HSS4X4X4	.199	14.194	13	.041	0	y	48	60040.562	139518	16.181	16.181	3...	H1-1b
3	M25A	HSS4X4X4	.187	14.194	21	.046	0	z	3	60040.562	139518	16.181	16.181	3...	H1-1b
4	M26A	HSS4X4X4	.192	14.194	17	.040	0	z	11	60040.562	139518	16.181	16.181	3...	H1-1b
5	M25	HSS4X4X4	.329	2.69	23	.073	2.69	y	23	104348.4...	139518	16.181	16.181	2...	H1-1b
6	M26	HSS4X4X4	.340	2.69	15	.076	2.69	y	19	104348.4...	139518	16.181	16.181	2...	H1-1b
7	MP4A	PIPE 2.0	.184	4.093	10	.054	4.093		9	13396.736	32130	1.872	1.872	2...	H1-1b
8	MP3A	PIPE 2.0	.262	4.093	10	.050	4.093		9	13396.736	32130	1.872	1.872	3...	H1-1b
9	MP2A	PIPE 2.5	.255	4.167	4	.082	1.167		4	30038.461	50715	3.596	3.596	1...	H1-1b
10	MP1A	PIPE 2.0	.236	4.093	3	.058	4.093		5	13396.736	32130	1.872	1.872	1...	H1-1b
11	MP3C	PIPE 2.5	.206	4.093	6	.045	4.093		4	27914.715	50715	3.596	3.596	2...	H1-1b
12	MP2C	PIPE 2.5	.246	4.167	11	.083	4.167		12	30038.461	50715	3.596	3.596	1...	H1-1b
13	MP1C	PIPE 2.0	.231	4.093	11	.060	4.093		2	13396.736	32130	1.872	1.872	3...	H1-1b
14	MP3B	PIPE 2.0	.268	4.093	3	.053	4.093		12	13396.736	32130	1.872	1.872	3...	H1-1b
15	MP2B	PIPE 2.5	.257	4.167	8	.093	1.167		10	30038.461	50715	3.596	3.596	1...	H1-1b
16	MP1B	PIPE 2.0	.235	4.093	8	.057	4.093		9	13396.736	32130	1.872	1.872	2...	H1-1b
17	OVP	PIPE 2.0	.373	6.5	1	.015	6.5		1	14916.096	32130	1.872	1.872	1	H1-1b
18	M33	LL3x3x3x3	.010	2.007	12	.001	4.014	y	1	47966.447	70632	5.543	3.751	1...	H1-1b
19	M34	LL3x3x3x3	.010	2.007	10	.001	4.014	y	9	47966.447	70632	5.543	3.751	1...	H1-1b
20	M35	LL3x3x3x3	.010	2.007	6	.001	4.014	y	5	47966.447	70632	5.543	3.751	1...	H1-1b
21	M36	PIPE 2.5	.120	8.26	4	.048	12.323		6	13460.366	50715	3.596	3.596	2...	H1-1b
22	MP4C	PIPE 2.0	.148	4.093	6	.048	4.093		5	13396.736	32130	1.872	1.872	2...	H1-1b



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

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
23	M39A	PIPE 2.5	.114	8.26	11	.043	12.323		2	13460.366	50715	3.596	3.596	2...	H1-1b
24	MP4B	PIPE 2.0	.185	4.093	2	.055	4.093		1	13396.736	32130	1.872	1.872	3...	H1-1b
25	M43	PIPE 2.5	.117	8.26	8	.044	12.323		10	13460.366	50715	3.596	3.596	2...	H1-1b
26	M57	L3X3X4	.177	1.336	7	.023	.07	y	6	44848.137	46656	1.688	3.756	1...	H2-1
27	M58	L3X3X4	.190	1.336	11	.024	0	y	10	44848.137	46656	1.688	3.756	1...	H2-1
28	M59	L3X3X4	.199	0	7	.022	0	y	2	44848.137	46656	1.688	3.756	1...	H2-1

**Envelope Joint Reactions**

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N3	max	136.05	10	293.868	7	126.683	1	.308	1	.05	5	.466	4
2		min	-136.05	4	-125.655	1	-126.683	7	-.245	7	-.05	11	-.437	10
3	N64	max	11.096	11	32.585	24	14.794	12	-.003	75	.008	12	-.006	75
4		min	-11.096	5	14.8	64	-14.794	6	-.007	13	-.008	6	-.013	13
5	N67	max	11.096	9	32.585	24	14.794	2	-.003	75	.008	8	.013	24
6		min	-11.096	3	14.8	64	-14.794	8	-.007	13	-.008	2	.006	64
7	N75A	max	26.259	10	39.249	24	25.982	1	0	75	0	75	0	75
8		min	-26.259	4	13.399	64	-25.982	7	0	1	0	1	0	1
9	N77B	max	26.051	10	39.249	24	26.19	1	0	75	0	75	0	75
10		min	-26.051	4	13.399	64	-26.19	7	0	1	0	1	0	1
11	N79	max	26.051	10	39.249	24	26.19	1	0	75	0	75	0	75
12		min	-26.051	4	13.399	64	-26.19	7	0	1	0	1	0	1
13	N117	max	920.683	10	2668.886	13	2219.313	1	5.286	13	1.231	4	.44	4
14		min	-918.114	4	529.635	7	-2121.332	7	1.288	7	-1.243	10	-.392	10
15	N118	max	1982.965	9	2581.431	21	1149.331	2	-.512	2	1.193	12	-.957	3
16		min	-1894.902	3	734.131	3	-1193.825	8	-2.595	20	-1.195	6	-4.608	21
17	N119	max	1821.012	11	2640.833	17	1233.073	12	-.549	12	1.213	8	4.698	17
18		min	-1911.307	5	751.655	11	-1287.473	6	-2.806	18	-1.22	2	.976	11
19	Totals:	max	4773.386	10	7899.267	13	4720.75	1						
20		min	-4773.383	4	2807.196	70	-4720.747	7						

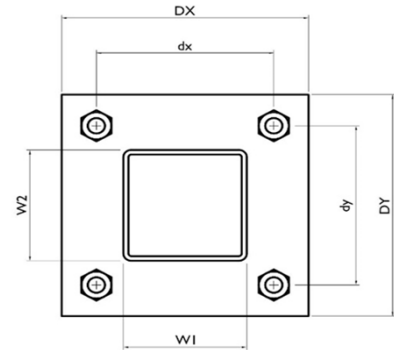
**I. Mount-to-Tower Connection Check**

Custom Orientation Required

Tower Connection Bolt Checks

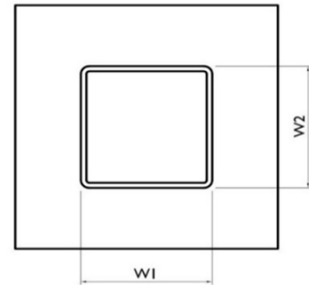
Bolt Orientation

Bolt Quantity per Reaction:	4
$d_x$ (in) (Delta X of typ. bolt config. sketch) :	4
$d_y$ (in) (Delta Y of typ. bolt config. sketch) :	7.5
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	3.2
Required Shear Strength / bolt (kips):	0.9
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	<b>15.5%</b>



Tower Connection Baseplate Checks

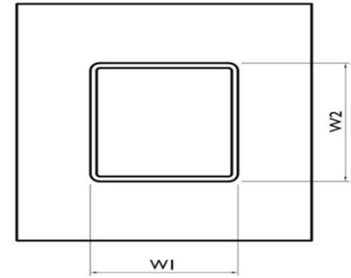
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, $D_x$ (in):	6
Plate Height, $D_y$ (in):	10
W1 (in):	4
W2 (in):	4
Member Thickness (in):	0.25
Stiffener location $a_1$ (in):	
Stiffener location $b_1$ (in):	
Stiffener location $a_2$ (in):	
Stiffener location $b_2$ (in):	
$F_y$ (ksi, plate):	36
Plate Thickness (in):	0.5
Length of Yield Line, $L_y$ (in):	4.81
Bolt Eccentricity, $e$ (in):	1.74
$M_u$ (kip-in):	5.60
$\Phi * M_n$ (kip-in):	9.74
Plate Bending Utilization:	<b>57.5%</b>



Tower Connection Weld Checks

Weld Shape:  
 Weld Stiffener Configuration:  
 Stiffener Notch Length, n (in):  
 Weld Size (1/16 in):  
 W1 (in):  
 W2 (in):  
 Weld Total Length (in):  
 $Z_x$  (in<sup>3</sup>/in):  
 $Z_y$  (in<sup>3</sup>/in):  
 $J_p$  (in<sup>4</sup>/in):  
 $c_x$  (in)  
 $c_y$  (in)  
 Required combined strength (kip/in):  
 Weld Capacity (kip/in):  
 Weld Utilization:

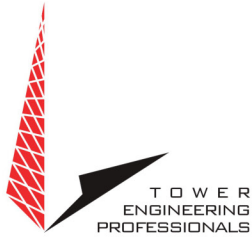
Yes
Rectangle
None
4
4
4
16.00
21.33
21.33
85.33
2.25
2.25
0.98
5.57
<b>17.5%</b>





# EXHIBIT 5





326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

## Non-Ionizing Electromagnetic Radiation (NIER) Study

*Site Number:*

411177

*Site Name:*

Barkhamstedw CT

*Location:*

Barkhamsted, Connecticut

*Tenants:*

AT&T Mobility, T-Mobile, & Verizon Wireless

*Prepared For:*

American Tower, Inc.  
Woburn, Massachusetts

September 11<sup>th</sup>, 2023

68975 P-405792

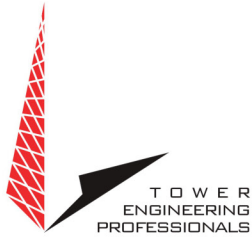
Prepared By:

Adam Carlson MS, CBRE, CPI  
Program Manager RF Design & Service  
Tower Engineering Professionals

Approved By:



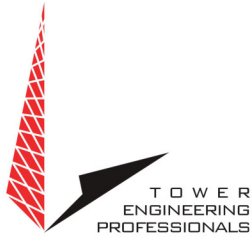
09/14/23



326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

## Contents

DISCLAIMER NOTICE .....	3
INTRODUCTION .....	4
SITE AND FACILITY CONSIDERATIONS.....	4
POWER DENSITY CALCULATIONS.....	4
SITE MITIGATION & CONTROL .....	5
COMPLIANCE DETERMINATION.....	5
APPENDIX 1 SITE PHOTOS.....	6
APPENDIX 2.1 ANTENNA INVENTORY.....	7
APPENDIX 2.2 ANTENNA INVENTORY.....	<b>ERROR! BOOKMARK NOT DEFINED.</b>
APPENDIX 3.1 MPE LIMIT STUDY.....	8
APPENDIX 3.2 MPE LIMIT STUDY.....	9
APPENDIX 4 INFORMATION PERTAINING TO MPE STUDIES.....	10
APPENDIX 5 MPE STANDARDS METHODOLOGY.....	12



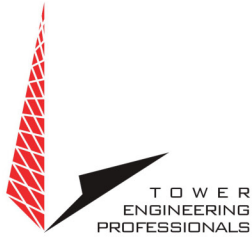
326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

## Disclaimer Notice

This work is based upon our best interpretation of available information. However, these data and their interpretation are constantly changing. Therefore, we do not warrant that any undertaking based on this report will be successful, or that others will not require further research or actions in support of this proposal or future undertaking. In the event of errors, our liability is strictly limited to the replacement of this document with a corrected one. Liability for consequential damages is specifically denied. Any use of this document constitutes an agreement to hold Tower Engineering Professionals and its employees harmless and indemnify it for all liability, claims, demands, and litigation expenses and attorney's fees arising out of such use.

Work product documents released prior to account settlement remain the sole property of Tower Engineering Professionals and must be returned on demand. Underlying work notes and data relating to this document remain the property of Tower Engineering Professionals. This document shall not be reproduced in whole or part without the permission of Tower Engineering Professionals. Any dispute hereunder shall be adjudicated in North Carolina. Any use or retention of this document constitutes acceptance of these terms, the entire work product, and all charges associated therewith.

COPYRIGHT © 2023 BY  
TOWER ENGINEERING PROFESSIONALS  
RALIEGH, NORTH CAROLINA



326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

## Non-Ionizing Electromagnetic Radiation (NIER) Study

411177 Barkhamstedw CT  
Barkhamsted, Connecticut

### INTRODUCTION

Tower Engineering Professionals RF Design & Services Division (TEP-RF) of Raleigh, North Carolina, has been retained by American Tower, Inc. (ATC), of Woburn, Massachusetts to evaluate the RF emissions compared to the Maximum Permissible Exposure (MPE) limit for facilities at this location. This evaluation uses compliance standards as outlined in Federal Communications Commission (FCC) document OET-65.

### SITE AND FACILITY CONSIDERATIONS

Site 411177 Barkhamstedw CT is located at 14 Old North Rd., in New Fairfield, Connecticut at coordinates 41.914528, -73.022222. The support structure is a 146' monopole. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are AT&T Mobility (AT&T), T-Mobile (T-Mobile), Dish Wireless (Dish), Woodbury Volunteer Fire Department (WVFD) & Verizon Wireless (VZW). A table listing all antennae and effective radiated power (ERP) levels that were used in this study may be found in Appendix 2, Antenna Inventory.

### POWER DENSITY CALCULATIONS

Power densities were calculated based on FCC MPE limits for both General Population/Uncontrolled and Occupational/Controlled environments.

For the purpose of this study, a radius of 100 from the base of the tower with a height of 6' above ground level was used, beyond 100' the MPE levels become *di minimus*. This study utilized FCC recognized and accepted software programs using the maximum ERP levels for the antenna models provided by ATC. Diagrams depicting the predicted spatial average power density level at any specific location may be found in Appendix 3, MPE Limit Study. A discussion regarding the FCC limits may be found in Appendix 4, Information Pertaining to MPE Studies. Study methodology describing Non-ionizing Radiation Prediction Models used in this study may be found in Appendix 5, MPE Standards Methodology.



326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

All data used in this study was collected from one or more of the following sources:

- ATC furnished data and does not include other unidentified communication facilities.
- Load List at 411177 BARKHAMSTEDW CT.RF NIER Study 8/24/23.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

### SITE MITIGATION & CONTROL

In order to comply with FCC, tenant, & ATC requirements, TEP recommends the placement of signage at the base of the tower and all compound access points to alert workers of potential exposure to RF fields while working on or near the antennae.

TEP recommends that all personnel working on this tower be trained in RF safety procedures and carry a personal RF monitor at all times.

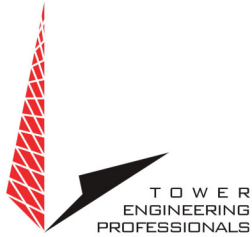
### COMPLIANCE DETERMINATION

This installation **IS** in compliance with current FCC MPE limits as described in FCC OET-65.

## APPENDIX 1 Site Photos



Aerial View of Site

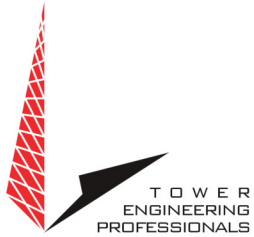


326 TRYON ROAD  
 RALEIGH, NC 27607  
 919.661.6351  
 WWW.TEPGROUP.NET

## Appendix 2.1 Antenna Inventory

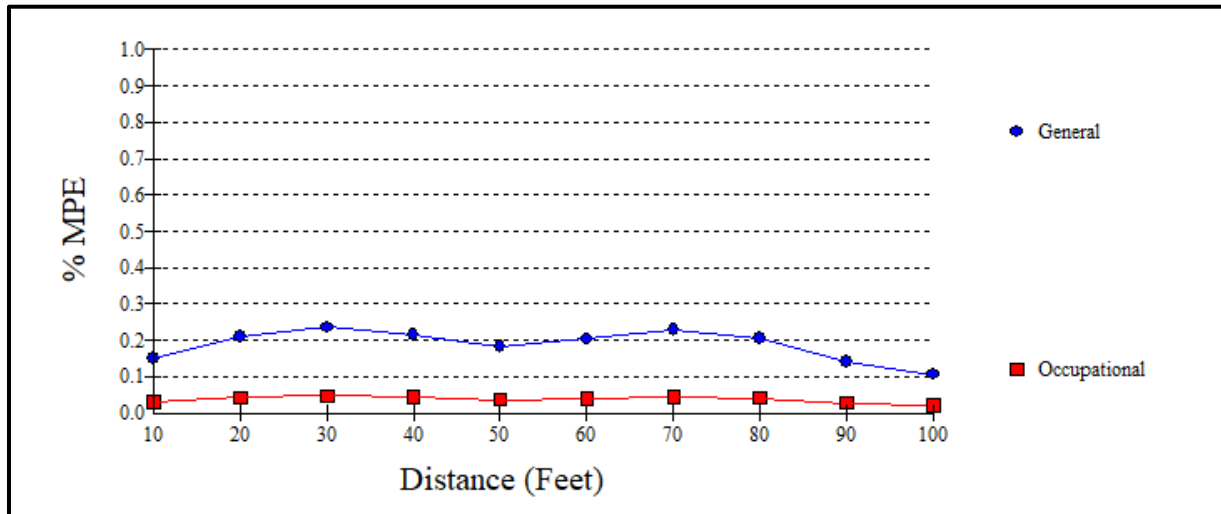
411177 Barkhamstedw CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	Verizon	Antel'	LPA-80063/4CF	700	000	7655	145
2	Verizon	Antel	LPA-80063/4CF	700	120	7655	145
3	Verizon	Antel	LPA-80063/4CF	700	240	7655	145
4	Verizon	Antel'	LPA-80063/4CF	700	000	7655	145
5	Verizon	Antel	LPA-80063/4CF	700	120	7655	145
6	Verizon	Antel	LPA-80063/4CF	700	240	7655	145
7	Verizon	Samsung	MT6407	3700/3800/3900	000	18286	145
8	Verizon	Samsung	MT6407	3700/3800/3900	120	18286	145
9	Verizon	Samsung	MT6407	3700/3800/3900	240	18286	145
10	Verizon	Quintel	QS6656-5D	700/800/1900/2100	000	59387	145
11	Verizon	Quintel	QS6656-5D	700/800/1900/2100	120	59387	145
12	Verizon	Quintel	QS6656-5D	700/800/1900/2100	240	59387	145
13	Verizon	Quintel	QS6656-5D	700/800/1900/2100	000	59387	145
14	Verizon	Quintel	QS6656-5D	700/800/1900/2100	120	59387	145
15	Verizon	Quintel	QS6656-5D	700/800/1900/2100	240	59387	145
16	AT&T	CCI	DMP65R-BU4D	700/800	030	12680	135
17	AT&T	CCI	OPA65R-BU6D	700	150	6340	135
18	AT&T	CCI	OPA65R-BU6D	700	270	6340	135
19	AT&T	Allgon	77770	700/1900	030	35334	135
20	AT&T	Allgon	77770	700/1900	150	35334	135
21	AT&T	Allgon	77770	700/1900	270	35334	135
22	AT&T	CCI	DMP65R-BU4D	700/800	150	12680	135
23	AT&T	CCI	DMP65R-BU4D	700/800	270	12680	135
24	AT&T	CCI	OPA65R-BU6D	700	030	6340	135
25	T-Mobile	RFS	APXVAALL24	600	000	1160	125
26	T-Mobile	RFS	APXVAALL24	600	120	1160	125
27	T-Mobile	RFS	APXVAALL24	600	240	1160	125
28	T-Mobile	RFS	APX16DWV	1900/2100	000	22400	125
29	T-Mobile	RFS	APX16DWV	1900/2100	120	22400	125
30	T-Mobile	RFS	APX16DWV	1900/2100	240	22400	125





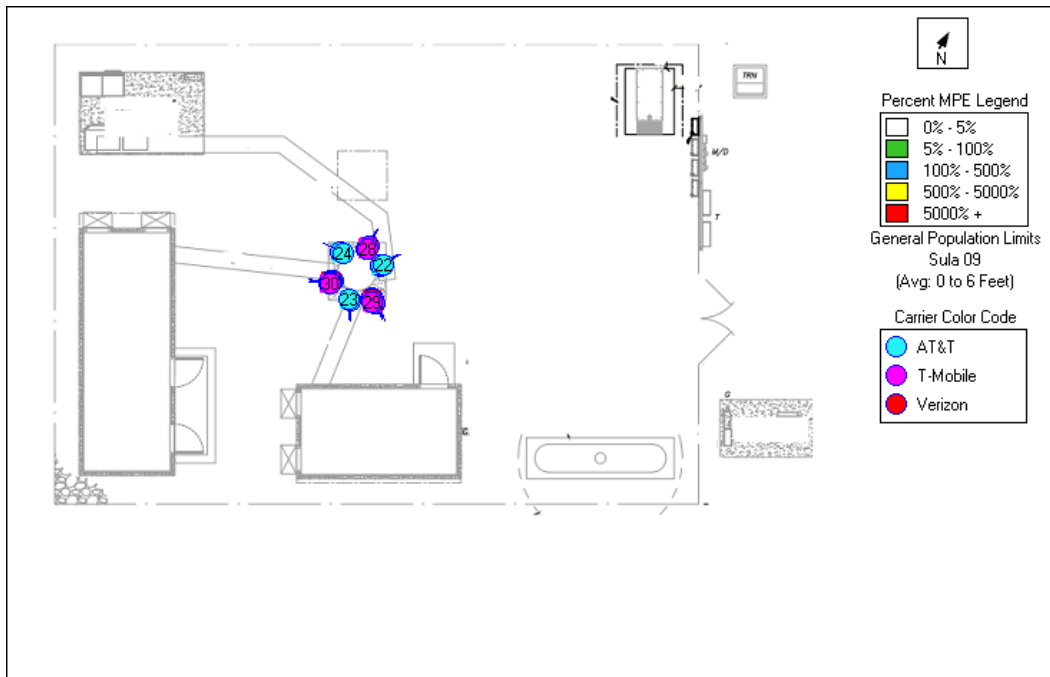
326 TRYON ROAD  
 RALEIGH, NC 27607  
 919.661.6351  
 WWW.TEPGROUP.NET

### Appendix 3.1 MPE Limit Study



Maximum Power Density (@30'):	0.0015 mW/cm <sup>2</sup>
General Population MPE (@30'):	0.2360%
Occupational MPE (@30'):	0.0472%

## Appendix 3.2 MPE Limit Study





326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

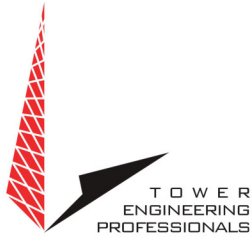
## Appendix 4 Information Pertaining to MPE Studies

In 1985, the FCC first adopted guidelines to be used for evaluating human exposure to RF emissions. The FCC revised and updated these guidelines on August 1, 1996, as a result of a rule-making proceeding initiated in 1993. The new guidelines incorporate limits for Maximum Permissible Exposure (MPE) in terms of electric and magnetic field strength and power density for transmitters operating at frequencies between 300 kHz and 100 GHz.

The FCC's MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP), and, over a wide range of frequencies, the exposure limits were developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC's limits, and the NCRP and ANSI/IEEE limits on which they are based, are derived from exposure criteria quantified in terms of specific absorption rate (SAR). The basis for these limits is a whole-body averaged SAR threshold level of 4 watts per kilogram (4 W/kg), as averaged over the entire mass of the body, above which expert organizations have determined that potentially hazardous exposures may occur. The MPE limits are derived by incorporating safety factors that lead, in some cases, to limits that are more conservative than the limits originally adopted by the FCC in 1985. Where more conservative limits exist, they do not arise from a fundamental change in the RF safety criteria for whole-body averaged SAR, but from a precautionary desire to protect subgroups of the general population who, potentially, may be more at risk.

The FCC exposure limits are also based on data showing that the human body absorbs RF energy at some frequencies more efficiently than at others. The most restrictive limits occur in the frequency range of 30-300 MHz where whole-body absorption of RF energy by human beings is most efficient. At other frequencies, whole-body absorption is less efficient, and consequently, the MPE limits are less restrictive.



326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

MPE limits are defined in terms of power density (units of milliwatts per centimeter squared:  $\text{mW}/\text{cm}^2$ ), electric field strength (units of volts per meter:  $\text{V}/\text{m}$ ) and magnetic field strength (units of amperes per meter:  $\text{A}/\text{m}$ ). The far-field of a transmitting antenna is where the electric field vector (E), the magnetic field vector (H), and the direction of propagation can be considered to be all mutually orthogonal ("plane-wave" conditions).

**Occupational/controlled exposure** limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**General population/uncontrolled exposure** limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area. Additional details can be found in FCC OET 65.

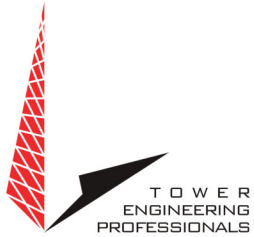


326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

## Appendix 5 MPE Standards Methodology

This study predicts RF field strength and power density levels that emanate from communications system antennae. It considers all transmitter power levels (less filter and line losses) delivered to each active transmitting antenna at the communications site. Calculations are performed to determine power density and MPE levels for each antenna as well as composite levels from all antennas. The calculated levels are based on where a human (Observer) would be standing at various locations at the site. The point of interest where the MPE level is predicted is based on the height of the Observer.

Compliance with the FCC limits on RF emissions are determined by spatially averaging a person's exposure over the projected area of an adult human body, that is approximately six-feet or two-meters, as defined in the ANSI/IEEE C95.1 standard. The MPE limits are specified as time-averaged exposure limits. This means that exposure is averaged over an identifiable time interval. It is 30 minutes for the general population/uncontrolled RF environment and 6 minutes for the occupational/controlled RF environment. However, in the case of the general public, time averaging should not be applied because the general public is typically not aware of RF exposure, and they do not have control of their exposure time. Therefore, it should be assumed that any RF exposure to the general public will be continuous.



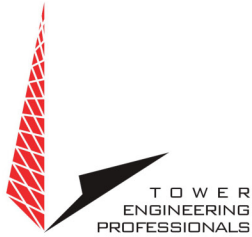
326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

The FCC's limits for exposure at different frequencies are shown in the following Tables.

Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3 - 3.0	614	1.63	100*	6
3.0 - 30	1842/f	4.89/f	900/F <sup>2</sup>	6
30 - 300	61.4	0.163	1.0	6
300 - 1500	--	--	f/300	6
1500 - 100,000	--	--	5	6

f = frequency

\* = Plane-wave equivalent power density



Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3 - 1.34	614	1.63	100*	30
1.34 - 30	824/f	2.19/f	180/F <sup>2</sup>	30
30 -300	27.5	0.073	0.2	30
300 -1500	--	--	f/1500	30
1500 -100,000	--	--	1.0	30

f = frequency

\* = Plane-wave equivalent power density

General population/uncontrolled exposures apply in situations in which the general public may be exposed or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

It is important to understand that these limits apply cumulatively to all sources of RF emissions affecting a given area. For example, if several different communications system antennas occupy a shared facility such as a tower or rooftop, then the total exposure from all systems at the facility must be within compliance of the FCC guidelines.



326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

The field strength emanating from an antenna can be estimated based on the characteristics of an antenna radiating in free space. There are basically two field areas associated with a radiating antenna. When close to the antenna, the region is known as the Near Field. Within this region, the characteristics of the RF fields are very complex, and the wave front is extremely curved. As you move further from the antenna, the wave front has less curvature and becomes planar. The wave front still has a curvature, but it appears to occupy a flat plane in space (plane-wave radiation). This region is known as the Far Field.

Two models are utilized to predict Near and Far field power densities. They are based on the formulae in FCC OET 65.

### **Cylindrical Model (Near Field Predictions)**

Spatially averaged plane-wave equivalent power densities parallel to the antenna may be estimated by dividing the antenna input power by the surface area of an imaginary cylinder surrounding the length of the radiating antenna. While the actual power density will vary along the height of the antenna, the average value along its length will closely follow the relation given by the following equation:

$$S = P \div 2\pi RL$$

Where:

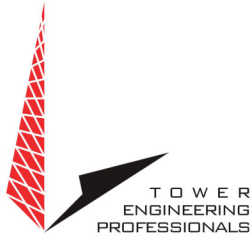
S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length





326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

For directional-type antennas, power densities can be estimated by dividing the input power by that portion of a cylindrical surface area corresponding to the angular beam width of the antenna. For example, for the case of a 120-degree azimuthal beam width, the surface area should correspond to 1/3 that of a full cylinder. This would increase the power density near the antenna by a factor of three over that for a purely omni-directional antenna. Mathematically, this can be represented by the following formula:

$$S = (180 / \theta_{BW}) P \div \pi RL$$

Where:

S = Power Density

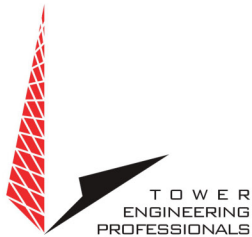
$\theta_{BW}$  = Beam width of antenna in degrees (3 dB half-power point)

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

If the antenna is a 360-degree omni-directional antenna, this formula would be equivalent to the previous formula.



326 TRYON ROAD  
RALEIGH, NC 27607  
919.661.6351  
WWW.TEPGROUP.NET

### **Spherical Model (Far Field Predictions)**

Spatially averaged plane-wave power densities in the Far Field of an antenna may be estimated by considering the additional factors of antenna gain and reflective waves that would contribute to exposure.

The radiation pattern of an antenna has developed in the Far Field region and the power gain needs to be considered in exposure predictions. Also, if the vertical radiation pattern of the antenna is considered, the exposure predictions would most likely be reduced significantly at ground level, resulting in a more realistic estimate of the actual exposure levels.

Additionally, to model a truly "worst case" prediction of exposure levels at or near a surface, such as at ground-level or on a rooftop, reflection off the surface of antenna radiation power can be assumed, resulting in a potential four-fold increase in power density.

These additional factors are considered, and the Far Field prediction model is determined by the following equation:

$$S = EIRP \times Rc \div 4\pi R^2$$

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

The EIRP includes the antenna gain. If the antenna pattern is considered, the antenna gain is relative based on the horizontal and vertical pattern gain values at that particular location in space, on a rooftop or on the ground. However, it is recommended that the antenna radiation pattern characteristics not be considered to provide a conservative "worst case" prediction. This is the equation is utilized for the Far Field exposure predictions herein.

# EXHIBIT 6



# Connecticut Siting Council <sup>(/CSC)</sup>

[CT.gov Home](#) [\(/\)](#) [Connecticut Siting Council](#) [\(/CSC\)](#) Docket 305 Barkhamsted Decision

<b>DOCKET NO. 305</b> - Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a wireless telecommunications facility located at 5 Old Farm Road or 8 Old New Hartford Road, Barkhamsted, Connecticut.	}	Connecticut
	}	Siting
	}	Council
		November 3, 2005

## Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Cellco Partnership d/b/a Verizon Wireless, hereinafter referred to as the Certificate Holder, for a telecommunications facility at 5 Old Farm Road, Barkhamsted, Connecticut. The Council denies certification of the proposed 8 Old New Hartford Road site in Barkhamsted, Connecticut.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Verizon Wireless and New Cingular Wireless PCS, LLC and other entities, both public and private, but such tower shall not exceed a height of 145 feet above ground level. Antennas mounted on the tower shall not exceed a height of 147 feet above ground level.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Barkhamsted for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
  - a. a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment building, access road, utility line, and landscaping; and
  - b. construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
3. Prior to submission of the D&M Plan to the Council, the Certificate Holder shall discuss the appropriateness of a stealth tree tower design at this site with the Town of Barkhamsted. The Town and Certificate Holder shall agree upon the final tower design.
4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
6. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
7. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Barkhamsted public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
8. If the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
9. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
10. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.
11. Any request for extension of the time periods referred to in Conditions 8 & 9 shall be filed with the Council not later than sixty days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Barkhamsted. Any proposed modifications to this Decision and Order shall likewise be so served.
12. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

Pursuant to General Statutes § 16-50p, the Council hereby directs that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in [The Hartford Courant](#).

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

The parties and intervenors to this proceeding are:

<b><u>Certificate Holder</u></b>	<b><u>Its Representative</u></b>
Cellco Partnership d/b/a Verizon Wireless	Sandy Carter, Regulatory Manager Verizon Wireless 99 East River Drive East Hartford, CT 06108  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597

**Intervenor**

New Cingular Wireless PCS, LLC

**Its Representative**

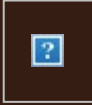
Christopher B. Fisher, Esq.  
Cuddy & Feder LLP  
90 Maple Avenue  
White Plains, NY 10601

# EXHIBIT 7



**From:** [UPS](#)  
**To:** [Barbara Kassabian](#)  
**Subject:** UPS Delivery Notification, Tracking Number 1Z9Y45030338602122  
**Date:** Tuesday, September 26, 2023 10:50:57 AM

---



**Hello, your package has been delivered.**

**Delivery Date:** Tuesday, 09/26/2023

**Delivery Time:** 10:49 AM

**Signed by:** HOLLY

## CENTERLINE SITE ACQUISITION

<b>Tracking Number:</b>	<a href="#">1Z9Y45030338602122</a>
<b>Ship To:</b>	DONALD STEIN 67 RIPLEY HILL ROAD TOWN HALL BARKHAMSTED, CT 060633329 US
<b>Number of Packages:</b>	1
<b>UPS Service:</b>	UPS Ground
<b>Package Weight:</b>	1.0 LBS
<b>Reference Number:</b>	14527572

### Discover more about UPS:

[Visit \[www.ups.com\]\(http://www.ups.com\)](#)

[Sign Up For Additional E-Mail From UPS](#)

[Read Compass Online](#)

---

© 2023 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

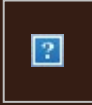
All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this email. UPS will not receive any reply message.



**From:** [UPS](#)  
**To:** [Barbara Kassabian](#)  
**Subject:** UPS Delivery Notification, Tracking Number 1Z9Y45030316824228  
**Date:** Tuesday, September 26, 2023 10:50:55 AM

---



**Hello, your package has been delivered.**

**Delivery Date:** Tuesday, 09/26/2023

**Delivery Time:** 10:49 AM

**Signed by:** HOLLY

## CENTERLINE SITE ACQUISITION

<b>Tracking Number:</b>	<a href="#">1Z9Y45030316824228</a>
<b>Ship To:</b>	JAMES KOPLER 67 RIPLEY HILL ROAD TOWN HALL BARKHAMSTED, CT 060633329 US
<b>Number of Packages:</b>	1
<b>UPS Service:</b>	UPS Ground
<b>Package Weight:</b>	1.0 LBS
<b>Reference Number:</b>	14527572

### Discover more about UPS:

[Visit \[www.ups.com\]\(http://www.ups.com\)](#)

[Sign Up For Additional E-Mail From UPS](#)

[Read Compass Online](#)

---

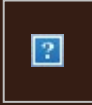
© 2023 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this email. UPS will not receive any reply message.

**From:** [UPS](#)  
**To:** [Barbara Kassabian](#)  
**Subject:** UPS Delivery Notification, Tracking Number 1Z9Y45030301671233  
**Date:** Tuesday, September 26, 2023 12:53:23 PM

---



**Hello, your package has been delivered.**

**Delivery Date:** Tuesday, 09/26/2023

**Delivery Time:** 12:51 PM

**Left At:** FRONT DESK

**Signed by:** ANCRI

## CENTERLINE SITE ACQUISITION

<b>Tracking Number:</b>	<a href="#">1Z9Y45030301671233</a>
<b>Ship To:</b>	AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 018011053 US
<b>Number of Packages:</b>	1
<b>UPS Service:</b>	UPS Ground
<b>Package Weight:</b>	1.0 LBS
<b>Reference Number:</b>	14527572

### Discover more about UPS:

[Visit \[www.ups.com\]\(http://www.ups.com\)](#)

[Sign Up For Additional E-Mail From UPS](#)

[Read Compass Online](#)

---

© 2023 United Parcel Service of America, Inc. UPS, the UPS brandmark, and the color brown are trademarks of United Parcel Service of America, Inc. All rights reserved.

All trademarks, trade names, or service marks that appear in connection with UPS's services are the property of their respective owners.

Please do not reply directly to this email. UPS will not receive any reply message.

Tracking Number:  
**9505513170423269456788**

Remove X

 Copy  Add to Informed Delivery

**Latest Update**

Your item has been delivered and is available at a PO Box at 9:35 am on September 28, 2023 in NEW HARTFORD, CT 06057.

Get More Out of USPS Tracking:

 USPS Tracking Plus®

 **Delivered**

**Delivered, PO Box**

NEW HARTFORD, CT 06057  
September 28, 2023, 9:35 am

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean?](#)

Text & Email Updates 

USPS Tracking Plus® 

Product Information 