

Colin Robinson, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (360) 561-3311
crobinson@clinellc.com

10/21/2025

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

RE: Notice of Exempt Modification
Site: WATERTOWN CT (ATC: 283424)
655 Bassett Road Watertown, CT 06795
Latitude: 41.65707777 **Longitude:** -73.13626111

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains Nine (9) antennas at the 114 foot level on the existing 128-foot tower, located 655 Bassett Road Watertown, CT. The tower is owned by American Tower. The property is owned by Gustafson Farm LLC. The Council approved the tower in 2012.

Proposed Modifications:

Remove: All Existing Equipment to Remain
Install: (2) Filters

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 Mark S. Sideris, Council President, Gideon Schreiber, Planning and Zoning Director; American Tower, tower owner, and Gustafson Farm LLC, property owner.

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 25, 2025, by A.T. Engineering Services, LLC, a structural analysis dated July 29, 2025, by A.T. Engineering Services, LLC, and a Non-Ionizing Electromagnetic Radiation (NIER) Study dated 6/20/2025, 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 by A.T. Engineering Services, LLC, dated July 29, 2025, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings, signed and stamped dated September 25, 2025.

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,

Colin Robinson

Colin Robinson, Site Acquisition Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (360) 561-3311
crobinson@clinellc.com

Attachments

cc: Mark S. Sideris – Chief Elected Official
Council President
City Hall
149 Main Street
Watertown, MA 02472

Gideon Schreiber – Planning Official
Planning & Zoning Director
Parker Building Room 2A
124 Watertown Street
Watertown, MA 02472

American Tower Corporation – Tower Owner
10 Presidential Way
Woburn, MA 01801

Gustafson Farm LLC – Ground Owner
192B North Turkey Hill Lane
Southbury, CT 06488

Exhibit A

Original Facility Approval

DOCKET NO. 422 – North Atlantic Towers, LLC and New }
Cingular Wireless PCS, LLC application for a Certificate of }
Environmental Compatibility and Public Need for the }
construction, maintenance and management of a }
telecommunications facility located at 655 Bassett Road, }
Watertown, Connecticut.

Connecticut

Siting

Council

May 10, 2012

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, maintenance, and management 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 North Atlantic Towers, LLC, hereinafter referred to as the Certificate Holder, for a telecommunications facility at the updated location at 655 Bassett Road, Watertown, Connecticut. The Council denies certification of the facility location proposed in the Certificate Holder's original application for the same property.

Unless otherwise approved by the Council, 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 monopine, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of New Cingular Wireless PCS, LLC and other entities, both public and private, but such tower shall not exceed a height of 130 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 Watertown 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 compound, radio equipment, access road, utility line, and landscaping; and
 - b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. Prior to the commencement of operation, the Certificate Holder shall provide the Council worst-case modeling of the 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 the electromagnetic radio frequency power density be 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.
4. 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.
5. 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.
6. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed with at least one fully operational wireless telecommunications carrier providing wireless service 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. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.
7. Any request for extension of the time period referred to in Condition 6 shall be filed with the Council not later than 60 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 Watertown. Any proposed modifications to this Decision and Order shall likewise be so served.
8. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
9. Any nonfunctioning antenna, and associated antenna mounting equipment, on this facility shall be removed within 60 days of the date the antenna ceased to function.
10. 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.
11. The Certificate Holder shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v.

12. This Certificate may be transferred in accordance with Conn. Gen. Stat. §16-50k(b), provided both the Certificate Holder/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. In addition, both the Certificate Holder/transferor and the transferee shall provide the Council a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.
13. The Certificate Holder shall maintain the facility and associated equipment, including but not limited to, the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line and landscaping in a reasonable physical and operational condition that is consistent with this Decision and Order and a Development and Management Plan to be approved by the Council.
14. If the Certificate Holder is a wholly-owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the Certificate Holder within 30 days of the sale and/or transfer.

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 Town Times.

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

The parties and intervenors to this proceeding are:

Applicant

North Atlantic Towers, LLC and
New Cingular Wireless PCS, LLC

Its Representatives

Lucia Chiocchio, Esq.
Christopher B. Fisher, Esq.
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, NY 10601

John S. Stevens
North Atlantic Towers, LLC
1001 3rd Ave. West., Suite 420
Bradenton, FL 34250

Michele Briggs
AT&T 500 Enterprise Drive
Rocky Hill, CT 06067-3900

Party

Town of Watertown

Its Representatives

Paul R. Jessell
Town Attorney
Slavin Stauffacher & Scott LLC
27 Siemon Company Drive
Suite 300W
Watertown, CT 06795

Charles Frigon, Town Manager
Watertown Town Hall
424 Main Street
Watertown, CT 06795

Intervenor

Robert and Cathleen Alex
435 Bassett Road
Watertown, CT 06795

Its Representative

Exhibit B

Property Card

Location:		655 BASSETT RD		Map Id:	15 25 3		Zone:	R90		Date Printed:	10/21/2025										
				Neighborhood:		R07				Last Update:		10/19/2025									
Owner Of Record					Volume/Page		Date		Sales Type			Valid		Sale Price							
GUSTAFSON FARM LLC					2289/0294		6/16/2023					No		0							
192B NORTH TURKEY HILL LANE, SOUTHBURY, CT 06488									Exempt												
Prior Owner History																					
GUSTAFSON FRANK E (EST) ET AL					2135/0139		6/3/2020		Other			No		1,040,284							
GUSTAFSON FRANK E (EST) ET AL					0971/0118		11/18/1999					No		0							
GUSTAFSON FRANK E EST/FRANK E JR & ALAN R CO EXEC'S/FRANK E, ALAN R, PETER					0971/0118		11/18/1999					No		0							
GUSTAFSON EDWARD & FRANK/EST F&A GUSTAFSON					0879/0001		1/12/1998					No		0							
Permit Number		Date		Permit Description																	
295-2023		3/28/2023		Dismantle barn (1628 sq. ft.) Materials will be taken to Danburv																	
622-2021		12/22/2021		Modifv existing equioment - Verizon																	
66518		10/22/2013		GENERATOR																	
Supplemental Data														Appraised Value							
Census/Tract 3602				VisionPID 3592				Total Land Value				327,300									
Dev Map ID				Bath Remodeled				Total Building Value				383,500									
GIS ID				School District				Total Outbldg Value				15,000									
Route B1-B4				Kitchen Remodel				Total Market Value				725,800									
District				490 App Date																	
Utilities Well																					
Acres						State Item Codes															
Land Type		Acres		490		Total Value		Code		Quantity		Value									
Excess		49.47		49.47				13-Residental Dwelling		1.00		268,450									
Pub Util Excess		1.03		0.00				41-Public Utility Land		2.03		60,340									
Pub Util Land		1.00		0.00				11-Residental Land		1.00		57,740									
House Lot		1.00		0.00				14-Residental Outbuilding		3.00		10,500									
								62-Forest		26.00		7,100									
								61-Farm		23.47		4,600									
Total						327,300															
Assessment History (Prior Years as of Oct 1)						490 Appraised Totals															
2025		2024		2023		2022		2021		Type		Acres		Value		Type		Acres		Value	
Land		129,780		129,780		129,780		251,020		251,020		Pasture		23.47		6572					
Building		268,450		268,450		268,450		116,100		116,100		Forest		26.00		10140					
Outbuilding		10,500		10,500		10,500		7,100		7,100											
Total		408,730		408,730		408,730		374,220		374,220								Totals		49.47 16712	
Application Date:														Expiration Date:							
Comments																					
9/26/2023 FAMILY FARM FOR GENERATIONS PART OF FARM 1																					

The diagram shows a building footprint composed of several rectangular sections. The labels within the sections are as follows:

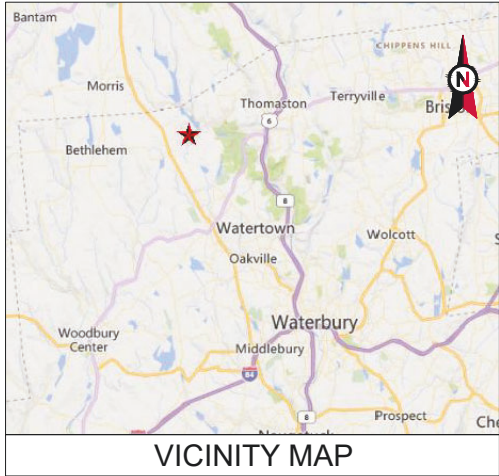
- Top section: 32 (width), 6 (height), 12 (width), 23 (width), 10 (height), 16 (width), WDK (label).
- Middle section: 20 (width), 20 (width), 20 (width), 1.40 (width), S (label), FGR (label).
- Bottom section: 30 (width), 6 (height), 1S FR+ (label), 6 (height), FCP (label).
- Left section: 30 (width), 30 (width), UAT (label), 2S FR+ (label).

Detached Component Computations

Area/Qty	Type	Year	Condition	Area/Qty
1628				
140				
770				

Exhibit C

Construction Drawings



ATC SITE NAME: WATERTOWN CT
ATC SITE NUMBER: 283424
VERIZON SITE NAME: WATERTOWN NE CT - AMERICAN TOWER
VERIZON SITE NUMBER: 5000055102
VERIZON FUZE PID: 17390722
SITE ADDRESS: 655 BASSETT ROAD
WATERTOWN, CT 06795

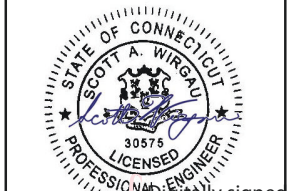


THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION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

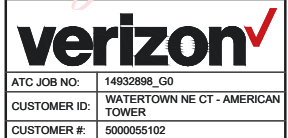
REV.	DESCRIPTION	BY	DATE
△	FOR CONSTRUCTION	JG	09/24/25
△			
△			
△			

ATC SITE NUMBER:
283424
ATC SITE NAME:
WATERTOWN CT
VERIZON SITE NAME:
WATERTOWN NE CT -
AMERICAN TOWER
SITE ADDRESS:
655 BASSETT ROAD
WATERTOWN, CT 06795

SEAL:



Digitally signed by Scott Wirgau
Date: 2025.09.25 15:41:38 -04'00'



TITLE SHEET
SHEET NUMBER: G-001
REVISION: 0

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 MPH BASIC WIND SPEED W/ ICE: 64 MPH CODE(S): ANS/ITIA-222-1 / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE EXPOSURE CATEGORY: B RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 2 TOPOGRAPHIC CATEGORY: N/A FEATURE: FLAT SPECTRAL RESPONSE: S_g=0.16, S_z=0.07 SITE CLASS: DEFAULT INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 07/29/2025.	<u>SITE ADDRESS:</u> 655 BASSETT ROAD WATERTOWN, CT 06795 COUNTY: LITCHFIELD <u>REGISTERED COORDINATES:</u> LATITUDE: 41.65707777 41° 39' 25.48" N LONGITUDE: -73.13626111 73° 8' 10.54" W GROUND ELEVATION: 833' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: INSTALL (2) FILTER(s) EXISTING (9) ANTENNA(s), (6) RRH(s), (3) DIPLEXER(s), (1) OVP(s), AND (2) 1-5/8" HYBRID CABLE(s) TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
			G-001	TITLE SHEET	0	09/24/25	JG	
			G-002	GENERAL NOTES	0	09/24/25	JG	
			C-101	DETAILED SITE PLAN	0	09/24/25	JG	
			C-201	TOWER ELEVATION	0	09/24/25	JG	
			C-401	ANTENNA INFORMATION & SCHEDULE	0	09/24/25	JG	
			C-501	CONSTRUCTION DETAILS	0	09/24/25	JG	
			E-501	GROUNDING DETAILS	0	09/24/25	JG	
			SUPPLEMENTAL SHEETS (1 PAGE)					
							</	

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 RODS), 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 PPM 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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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.

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/SPICE WEATHERPROOFING KIT #221213 OR EQUAL.

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

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.



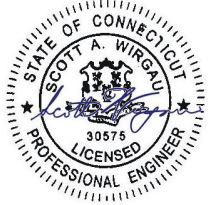
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REV.	DESCRIPTION	BY	DATE
△	FOR CONSTRUCTION	JG	09/24/25
△			
△			
△			

ATC SITE NUMBER:
283424
ATC SITE NAME:

WATERTOWN CT
VERIZON SITE NAME:
WATERTOWN NE CT -
AMERICAN TOWER
SITE ADDRESS:
655 BASSETT ROAD
WATERTOWN, CT 06795

SEAL:



Digitally Signed: 2025-09-25



ATC JOB NO:	14932898_G0
CUSTOMER ID:	WATERTOWN NE CT - AMERICAN TOWER
CUSTOMER #:	5000055102

GENERAL NOTES

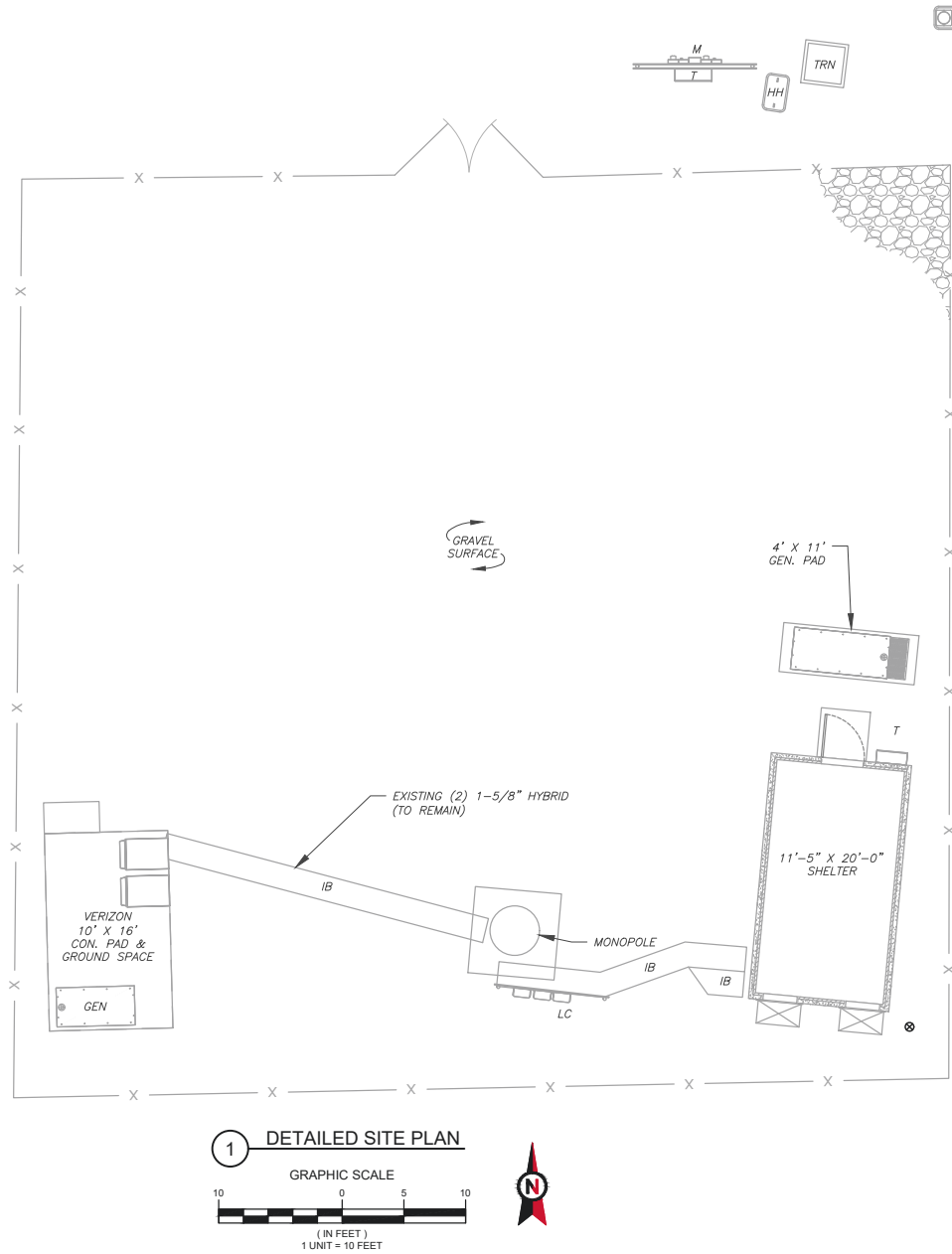
SHEET NUMBER:
G-002
REVISION:
0

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.
- ALL CONDUITS SHALL BE INSTALLED UNDERGROUND AND PER APPLICABLE NEC AND LOCAL REQUIREMENTS UNLESS SHOWN OTHERWISE ON THESE PLANS. ANY CONDUITS INSTALLED ABOVE GRADE SHALL BE SECURED PER NEC 344 (MAX INTERVAL 10') AND THE ENTIRE CONDUIT SHALL BE PAINTED SAFETY/REFLECTIVE YELLOW OR ORANGE TO INCREASE VISIBILITY AND REDUCE TRIP HAZARDS.
- 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



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Δ	FOR CONSTRUCTION	JG	09/24/25
Δ			
Δ			
Δ			

ATC SITE NUMBER:

283424

ATC SITE NAME:

WATERTOWN CT

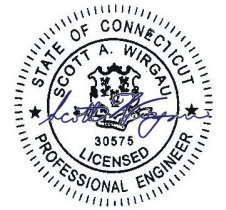
VERIZON SITE NAME:

WATERTOWN NE CT -
AMERICAN TOWER

SITE ADDRESS:

655 BASSETT ROAD
WATERTOWN, CT 06795

SEAL:



Digitally Signed: 2025-09-25

verizon

ATC JOB NO:	14932898_G0
CUSTOMER ID:	WATERTOWN NE CT - AMERICAN TOWER
CUSTOMER #:	5000055102

DETAILED SITE PLAN

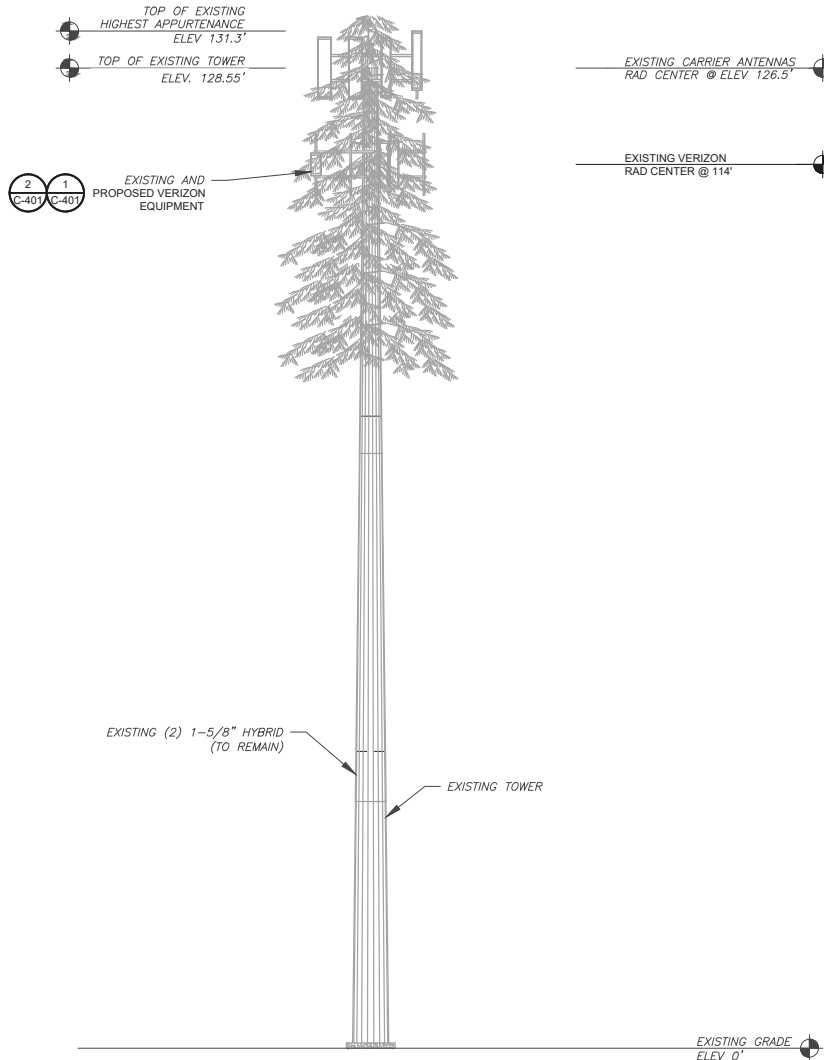
SHEET NUMBER:

C-101

REVISION:

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FAA REGISTERED HEIGHT: 135' AGL



1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 12/24/2024, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

ALL ELEVATIONS REFLECT ABOVE GROUND LEVEL (A.G.L.)

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 ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

AMERICAN TOWER
A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

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ATC SITE NUMBER:

283424

ATC SITE NAME:

WATERTOWN CT

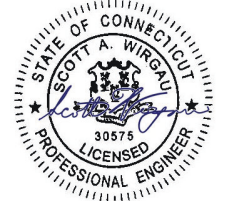
VERIZON SITE NAME:

WATERTOWN NE CT -
AMERICAN TOWER

SITE ADDRESS:

655 BASSETT ROAD
WATERTOWN, CT 06795

SEAL:



Digitally Signed: 2025-09-25

verizon

ATC JOB NO:	14932898_G0
CUSTOMER ID:	WATERTOWN NE CT - AMERICAN TOWER
CUSTOMER #:	5000055102

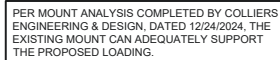
TOWER ELEVATION

SHEET NUMBER:

C-201

REVISION:

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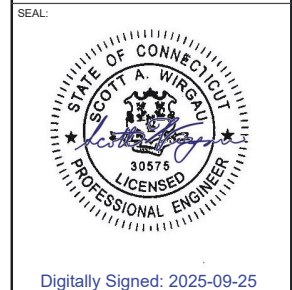


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ATC SITE NUMBER:
283424
ATC SITE NAME:
WATERTOWN CT
VERIZON SITE NAME:
TERTOWN NE CT
MERICAN TOWER
SITE ADDRESS:
655 BASSETT ROAD
WATERTOWN,CT 06795

NOTES	
1.	GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC RM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.
2.	GC TO CAP ALL UNUSED PORTS.
3.	GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
<u>STATUS ABBREVIATIONS</u>	
RMV: TO BE REMOVED	
RMN: TO REMAIN	
REL: TO BE RELOCATED	
ADD: TO BE ADDED	

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	114°	80°	A1	-	-	-	B2/B66A RRH-BR049	RMN
			A2	JAHH-65B-R3B JAHH-65B-R3B	700/850/1900/AWS LTE & 850 5G	RMN RMN	B5/B13 RRH-BR04C CBC78T-DS-43-2X (2)BSF0020F3V1-1	RMN RMN ADD
			A3	-	-	-	-	-
			A4	MT6407-77A	L-SUB6 5G	RMN	-	-
BETA	114°	190°	B1	-	-	-	B2/B66A RRH-BR049	RMN
			B2	JAHH-65B-R3B JAHH-65B-R3B	700/850/1900/AWS LTE & 850 5G	RMN RMN	B5/B13 RRH-BR04C CBC78T-DS-43-2X	RMN RMN
			B3	-	-	-	-	-
			B4	MT6407-77A	L-SUB6 5G	RMN	-	-
GAMMA	114°	330°	C1	-	-	-	B2/B66A RRH-BR049	RMN
			C2	JAHH-65B-R3B JAHH-65B-R3B	700/850/1900/AWS LTE & 850 5G	RMN RMN	B5/B13 RRH-BR04C CBC78T-DS-43-2X	RMN RMN
			C3	-	-	-	-	-
			C4	MT6407-77A	L-SUB6 5G	RMN	-	-



Digitally Signed: 2025-09-25



ATC JOB NO:	14932898_G0
CUSTOMER ID:	WATERTOWN NE CT - AMERICAN TOWER
CUSTOMER #:	5000055102

CUSTOMER#:	5000055102
ANTENNA INFORMATION & SCHEDULE	

SHEET NUMBER:	REVISION:
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C-401

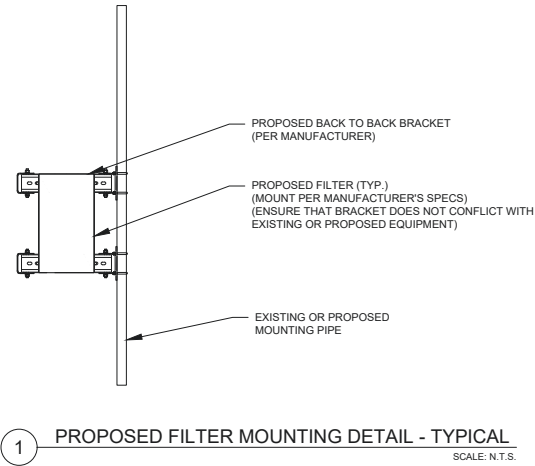
REVISION:

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3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(1) RCMDC-6627-PF-48 (12 OVP)	RMN	(2) 1-5/8" HYBRID	RMN
-	ADD	---	ADD

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.



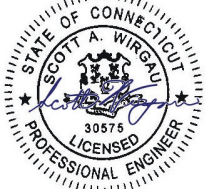

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1 FENTON MAIN
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PHONE: (919) 468-0112
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VERIZON SITE NAME:
WATERTOWN NE CT -
AMERICAN TOWER
SITE ADDRESS:
655 BASSETT ROAD
WATERTOWN, CT 06795

SEAL:



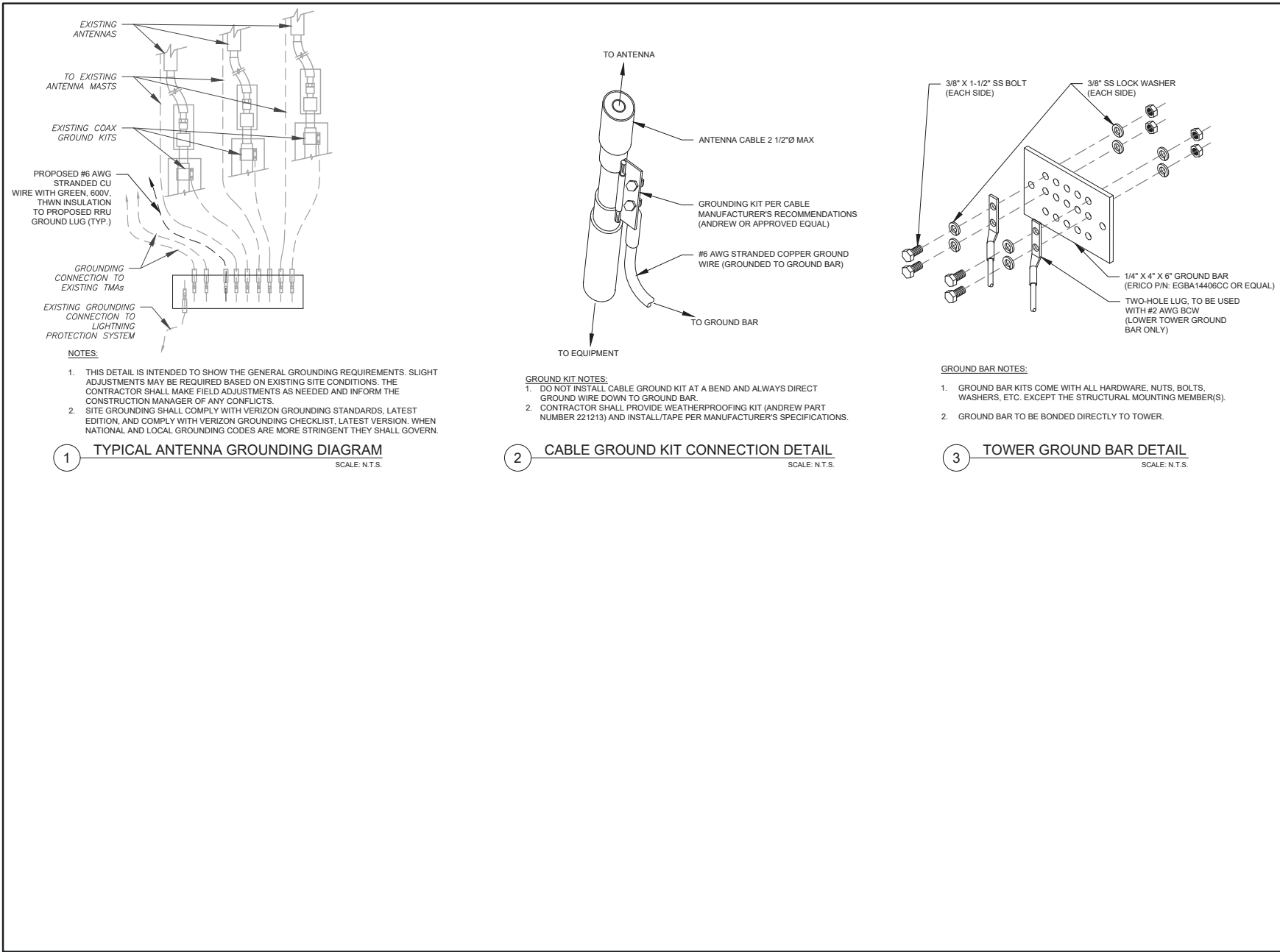
Digitally Signed: 2025-09-25



ATC JOB NO:	14932898_G0
CUSTOMER ID:	WATERTOWN NE CT - AMERICAN TOWER
CUSTOMER #:	5000055102

CONSTRUCTION
DETAILS

SHEET NUMBER:	REVISION:
C-501	0





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1 FENTON MAIN
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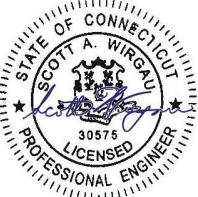
ATC SITE NUMBER:
283424

ATC SITE NAME:
WATERTOWN CT

VERIZON SITE NAME:
WATERTOWN NE CT - AMERICAN TOWER

SITE ADDRESS:
655 BASSETT ROAD
WATERTOWN, CT 06795

SEAL:



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ATC JOB NO:	14932898_G0
CUSTOMER ID:	WATERTOWN NE CT - AMERICAN TOWER
CUSTOMER #:	5000055102

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0



Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C.
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
sean.osullivan@collierseng.com



Mount Structural Analysis Report
(3) 12.50-Ft T-Arms

December 17, 2024
Site ID: 5000055102-VZW / WATERTOWN NE CT -
American Tower
Page | 5

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10269443
Colliers Engineering & Design Project #: 24777549

December 17, 2024

Site Information

Site ID: 5000055102-VZW / WATERTOWN NE CT -
American Tower
Site Name: WATERTOWN NE CT - American Tower
Carrier Name: Verizon Wireless
Address: 655 Bassett Rd
Watertown, Connecticut 06795
Litchfield County
Latitude: 41.65708333°
Longitude: -73.13625000°

Structure Information

Tower Type: Monopole
Mount Type: 12.50-Ft T-Arm

FUZE ID # 17390722

Analysis Results

T-Arm: 73.6% Pass*

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

Report Prepared By: Selene Chen



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	21.6	20.4	39.9	38.6
0.5	28.3	28.8	55.3	53.6
1	34.5	35.1	69.4	67.3

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 mounts are **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted 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.

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

Attachments:

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

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 CONTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: R-601
REVISION: 0

Exhibit D

Structural Analysis



Structural Analysis Report

Structure : 129 ft Monopine
ATC Asset Name : WATERTOWN CT
ATC Asset Number : 283424
Engineering Number : 14932898_C3_05
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : WATERTOWN NE CT - American Tower
Carrier Site Number : 5000055102
Site Location : 655 Bassett Road
Watertown, CT 06795-1139
41.6571° N, 73.1363° W
County : Litchfield
Date : July 28, 2025
Max Usage : 80%
Analysis Result : Pass

Created By:

Samuel Hernandez
Structural Engineer I



Esha
Modi

Digitally signed
by Esha Modi
Date: 2025.07.29
14:18:31 -04'00'

COA: PEC.0001553

Table of Contents

Introduction	3
Supporting Documents	3
Analysis	3
Conclusion	3
Structure Usages	4
Maximum Reactions	4
Tower Loading	5
Standard Conditions	Attached
Calculations	Attached

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 129 ft Monopine tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	Larson Camouflage Job #611200, dated September 19, 2002
Foundation:	Larson Camouflage Job #611200, dated September 19, 2002
Geotechnical:	Berkshire Geo-Technologies Project #106933, dated July 16, 2012
Site Specific Study:	ICE Study Site #283424, dated July 25, 2025

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.

Basic Wind Speed:	115 mph (3-second gust)
Basic Wind Speed w/ Ice:	64 mph (3-second gust) w/ 1.60" radial ice concurrent
Code(s):	ANSI/TIA-222-I / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 2
Feature:	Flat
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_{DS} = 0.16$, $S_{D1} = 0.07$
Site Class:	Default

**Wind pressures have been determined per the site-specific climatic study in accordance with ASCE 7-22 Section 26.5.3, IBC Section 1609.3, and TIA-222-I Section 2.6.6.2.2.*

**Ice thickness and wind pressures have been determined per the site-specific climatic study in accordance with ASCE 7-22 Section 10.1.1, IBC Section 1614, and TIA-222-I Section 2.6.4.1.*

**Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222, ANNEX-S*

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 reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact 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	80.2%	1.2D + 1.0W	Pass
Serviceability Usage	37.6%	1.0D + 1.0W	Pass
Base Plate @ 0.0 ft	52.4%	Rods	Pass
Mat & Pier	77.7%	Flexure [Steel (Mat)]	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	2,702.6	42.5	26.7

**Reactions shown reflect the results from the Load Case with maximum Moment excluding Overstrength Load Cases*

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

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
114.0	1	Raycap RCMD-6627-PF-48	(2) 1 5/8" (1.63"-41.3mm) Fiber
	2	Kaelus BSF0020F3V1-1	
	3	Sector Frame	
	3	Samsung B2/B66A RRH-BR049	
	3	Samsung B5/B13 RRH-BR04C	
	3	Samsung MT6407-77A	
	6	Commscope JAHH-65B-R3B	
110.0	3	Commscope CBC78T-DS-43-2X	-

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines
132.0	1	Top Hat	-
126.0	3	CCI DMP65R-BU8D	(3) 0.39" (10mm) Fiber Trunk (3) 0.45" (11.5mm) Fiber (6) 0.78" (19.7mm) 8 AWG 6 (1) 2" conduit (3) 3" conduit
	3	CCI HPA-65R-BUU-H8	
	3	CCI OPA65R-BU8D	
	3	Commscope SBNH-1D6565C	
	3	Ericsson RRUS 11 B5	
	3	Ericsson RRUS 4449 B5, B12	
	3	Ericsson RRUS 4478 B14 (16.5" Height)	
	3	Ericsson RRUS 8843 B2, B66A	
	3	Raycap DC2-48-60-8-18F-02	
	3	T-Arms with Mods	
104.0	1	MSFAA Collar Mount	(2) 2.00" (50.8mm) Hybrid
	3	Ericsson 840590966	
	3	Ericsson Radio 4460 B25+B66	
	3	Ericsson Radio 4480 B71+B85	
	3	Site Pro 1 VFA12-HD	

(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

Design Wind:	112 mph	Ice Wind:	62 mph w/ 1.4" ice	Service Wind:	60 mph
Risk Category:	II	Exposure:	B	S _{DI} :	0.067
Topo Factor:	Method 2	Topo Feature:	Flat	S _{DS} :	0.160
Structure Height:	129.0 ft	Base Elevation:	0.00 ft	Structure Type:	Taper
Base Diameter:	56.12 in	Base Rotation:	0.00°	Taper:	0.2800 (in/ft)

POLE SECTION PROPERTIES

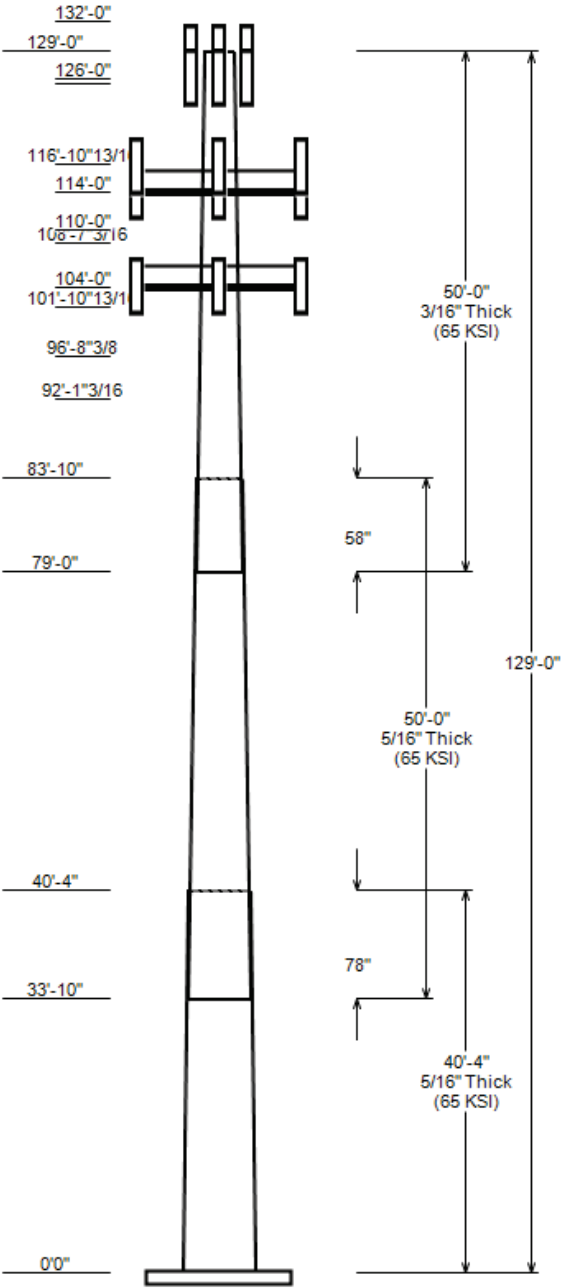
Section	Length (ft)	Flat Diameter (in)		Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
		Top	Bottom					
1	40.333	44.83	56.12	0.312		0.00	18 Sides	65
2	50.000	33.27	47.27	0.312	Slip Joint	78.00	18 Sides	65
3	50.000	21.00	35.00	0.188	Slip Joint	58.00	18 Sides	65

DISCRETE APPURTENANCE

Elev (ft)	Description
132.0	(1) Top Hat
126.0	(3) CCI DMP65R-BU8D
126.0	(3) Ericsson RRUS 4478 B14 (16.5" Heig
126.0	(3) Ericsson RRUS 4449 B5, B12
126.0	(3) Ericsson RRUS 11 B5
126.0	(3) CCI OPA65R-BU8D
126.0	(3) 4' Pine Tree Branches
126.0	(3) CCI HPA-65R-BUU-H8
126.0	(3) Commscope SBNH-1D6565C
126.0	(3) Ericsson RRUS 8843 B2, B66A
126.0	(3) Raycap DC2-48-60-8-18F-02
126.0	(3) T-Arms with Mods
125.5	(23) 4' Pine Tree Branches
116.9	(24) 6' Pine Tree Branches
114.0	(1) Raycap RCMDC-6627-PF-48
114.0	(3) Samsung B5/B13 RRH-BR04C
114.0	(2) Kaelus BSF0020F3V1-1
114.0	(6) Commscope JAHH-65B-R3B
114.0	(3) Samsung B2/B66A RRH-BR049
114.0	(3) Samsung MT6407-77A
114.0	(3) Generic Round Sector Frame
110.0	(3) Commscope CBC78T-DS-43-2X
108.6	(24) 6' Pine Tree Branches
104.0	(3) Ericsson Radio 4460 B25+B66
104.0	(3) Ericsson 840590966
104.0	(3) Ericsson Radio 4480 B71+B85
104.0	(1) MSFAA Collar Mount
104.0	(3) Site Pro 1 VFA12-HD
101.9	(15) 8' Pine Tree Branches
96.7	(15) 8' Pine Tree Branches
92.1	(12) 10' Pine Tree Branches

LINEAR APPURTENANCE

Elev To (ft)	Description
126.0	(3) 0.45" (11.5mm) Fiber
126.0	(6) 0.78" (19.7mm) 8 AWG 6
126.0	(3) 3" conduit
126.0	(3) 0.39" (10mm) Fiber Trunk
126.0	(1) 2" conduit
114.0	(2) 1 5/8" (1.63"-41.3mm) Fiber
104.0	(2) 2.00" (50.8mm) Hybrid



GLOBAL BASE REACTIONS

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	2702.59	42.45	26.67
0.9D + 1.0W	2674.50	31.83	26.65
1.2D + 1.0Di + 1.0Wi	1389.37	64.97	13.54
1.2D + 1.0Ev + 1.0Eh	114.34	42.24	1.06
0.9D - 1.0Ev + 1.0Eh	112.95	29.76	1.06
1.0D + 1.0W	688.60	35.41	6.83

ANALYSIS PARAMETERS			
Location:	Litchfield County,CT	Height:	129 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	56.12 in
Manufacturer:	Larson Camouflage	Top Diameter:	21.00 in
K _d (non-service):	0.95	Taper:	0.2800 in/ft
K _e :	0.97	Rotation:	0.000°

ICE & WIND PARAMETERS			
Risk Category:	II	Design Wind Speed:	112 mph
Exposure Category:	B	Design Wind Speed w/ Ice:	62 mph
Design Ice Thickness:	1.36 in		
Topo Factor Procedure:	Method 2		
Crest Height(H):	0 ft	Service Wind Speed:	60 mph
Crest Length(L):	0 ft	HMSL:	833.00 ft
Feature:	Flat	Distance from Apex (x):	0 ft
		Upwind/Downwind:	Upwind

SEISMIC PARAMETERS					
Analysis Method:	Equivalent Lateral Force Method				
Site Class:	Default	Period Based on Rayleigh Method (sec):		2.08	
T _L (sec):	6	P:	1	C _s :	0.030
S _{ds} :	0.160	S _{d1} :	0.067	C _s Max:	0.030
				C _s Min:	0.030

LOAD CASES	
1.2D + 1.0W	112.09 mph Wind with No Ice
0.9D + 1.0W	112.09 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	62.38 mph Wind with 1.36" 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
1.2D + 1.0Ev + 1.5Eh	Seismic Overstrength
0.9D - 1.0Ev + 1.5Eh	Seismic Overstrength (Reduced DL)

SHAFT SECTION PROPERTIES																			
Section	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in²)	Ix (in⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in²)	Ix (in⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	40.33	0.3125	65		0.00	6,828	56.12	-0.003	55.35	21,780.7	29.90	179.58	44.83	40.33	44.15	11,053.	23.53	143.45	0.2800
2-18	50.00	0.3125	65	Slip	78.00	6,743	47.27	33.830	46.58	12,976.4	24.91	151.27	33.27	83.83	32.69	4,486.7	17.01	106.47	0.2800
3-18	50.00	0.1875	65	Slip	58.00	2,816	35.00	79.000	20.72	3,172.1	31.15	186.67	21.00	129.00	12.39	677.8	17.99	112.00	0.2800
Total Shaft Weight						16,387													

DISCRETE APPURTENANCE PROPERTIES										
Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice			Ice		
					Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor
132.00	Top Hat	1	1.00	0.000	118.00	19.800	1.00	191.48	32.130	1.00
126.00	CCI OPA65R-BU8D	3	0.80	0.000	76.50	18.089	0.63	384.30	21.385	0.63
126.00	T-Arms with Mods	3	0.75	0.000	400.00	13.000	0.67	648.75	21.084	0.67
126.00	CCI DMP65R-BU8D	3	0.80	0.000	95.70	17.871	0.63	399.10	21.161	0.63
126.00	CCI HPA-65R-BUU-H8	3	0.80	3.000	68.00	12.976	0.67	297.36	16.171	0.67
126.00	Commscope SBNH-1D6565C	3	0.80	3.000	60.80	11.440	0.70	265.61	14.328	0.70
126.00	Ericsson RRUS 11 B5	3	0.80	0.000	50.70	2.791	0.50	115.33	3.770	0.50
126.00	Raycap DC2-48-60-8-18F-02	3	0.80	3.000	14.50	2.496	0.50	70.83	3.421	0.50
126.00	Ericsson RRUS 4449 B5, B12	3	0.80	0.000	71.00	1.969	0.50	128.53	2.802	0.50
126.00	Ericsson RRUS 4478 B14 (16.5"	3	0.80	0.000	59.90	1.842	0.50	109.26	2.643	0.50
126.00	4' Pine Tree Branches	3	1.00	0.000	26.00	1.710	1.00	42.17	2.773	1.00
126.00	Ericsson RRUS 8843 B2, B66A	3	0.80	0.000	72.00	1.639	0.50	126.71	2.393	0.50
125.50	4' Pine Tree Branches	23	1.00	0.000	26.00	1.710	1.00	42.16	2.773	1.00
116.90	6' Pine Tree Branches	24	1.00	0.000	40.00	2.430	1.00	64.67	3.929	1.00
114.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.400	70.30	1.875	0.50	120.77	2.671	0.50
114.00	Raycap RCMDC-6627-PF-48	1	0.80	0.800	32.00	4.056	1.00	144.14	5.260	1.00
114.00	Commscope JAHH-65B-R3B	6	0.80	2.000	60.60	9.113	0.69	239.11	11.561	0.69
114.00	Generic Round Sector Frame	3	0.75	0.000	700.00	14.400	0.67	1560.59	29.005	0.67
114.00	Samsung B2/B66A RRH-BR049	3	0.80	0.500	84.40	1.875	0.50	140.69	2.671	0.50
114.00	Kaelus BSF0020F3V1-1	2	0.80	0.000	15.40	1.097	0.50	37.93	1.712	0.50
114.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	171.54	6.049	0.61
110.00	Commscope CBC78T-DS-43-2X	3	0.80	0.000	20.70	0.552	0.50	40.15	0.999	0.50
108.60	6' Pine Tree Branches	24	1.00	0.000	40.00	2.430	1.00	64.47	3.917	1.00
104.00	Site Pro 1 VFA12-HD	3	0.75	0.000	690.00	13.340	1.00	1565.25	25.261	1.00
104.00	Ericsson Radio 4480 B71+B85	3	0.80	0.000	93.00	2.798	0.50	158.25	3.768	0.50
104.00	Ericsson 840590966	3	0.80	0.000	101.40	19.880	0.61	420.33	47.848	0.61
104.00	Ericsson Radio 4460 B25+B66	3	0.80	0.000	109.00	2.564	0.50	186.34	3.486	0.50
104.00	MSFAA Collar Mount	1	1.00	0.000	0.00	1.120	1.00	0.00	1.803	1.00
101.90	8' Pine Tree Branches	15	1.00	0.000	50.00	3.150	1.00	80.42	5.066	1.00
96.70	8' Pine Tree Branches	15	1.00	0.000	50.00	3.150	1.00	80.26	5.056	1.00
92.10	10' Pine Tree Branches	12	1.00	0.000	66.00	3.860	1.00	105.74	6.184	1.00
Totals		Row Count: 31		184		14,190.90		30,449.84		

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	126.00	6	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	126.00	3	3" conduit	3.5	7.58	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	126.00	3	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	126.00	3	0.45" (11.5mm) Fiber	0.45	0.08	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	126.00	1	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	114.00	2	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	104.00	2	2.00" (50.8mm) Hybrid	2	3.09	N	0	0	0	0	0	N	T-MOBILE

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

SEGMENT PROPERTIES												
Seg Top Elev (ft)	Description	(Max Length: 5 ft)	Thick (in)	Flat Dia (in)	Area (in²)	Ix (in⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in³)	Z (in³)	Weight (lb)
0.00			0.3125	56.120	55.352	21,780.70	29.90	179.58	66.2	764.4	0.0	0.0
5.00			0.3125	54.720	53.963	20,182.30	29.11	175.10	67.2	726.5	0.0	929.9
10.00			0.3125	53.320	52.575	18,664.10	28.32	170.62	68.1	689.4	0.0	906.3
15.00			0.3125	51.920	51.186	17,224.00	27.53	166.14	69	653.4	0.0	882.7
20.00			0.3125	50.520	49.798	15,859.90	26.74	161.66	69.9	618.3	0.0	859.1
25.00			0.3125	49.120	48.409	14,569.80	25.95	157.18	70.9	584.2	0.0	835.4
30.00			0.3125	47.720	47.021	13,351.70	25.16	152.70	71.8	551.1	0.0	811.8
33.83	Bot - Section 2		0.3125	46.647	45.956	12,465.20	24.56	149.27	72.5	526.3	0.0	606.4
35.00			0.3125	46.320	45.632	12,203.40	24.37	148.22	72.7	518.9	0.0	366.1
40.00			0.3125	44.920	44.243	11,122.90	23.58	143.74	73.7	487.7	0.0	1,539.7
40.33	Top - Section 1		0.3125	45.452	44.771	11,525.40	23.88	145.45	73.3	499.4	0.0	101.0
45.00			0.3125	44.145	43.475	10,553.20	23.15	141.26	74.2	470.9	0.0	700.7
50.00			0.3125	42.745	42.086	9,573.90	22.36	136.78	75.1	441.2	0.0	727.9
55.00			0.3125	41.345	40.698	8,657.20	21.57	132.30	76	412.4	0.0	704.2
60.00			0.3125	39.945	39.309	7,801.00	20.78	127.82	77	384.7	0.0	680.6
65.00			0.3125	38.545	37.920	7,003.10	19.99	123.34	77.9	357.9	0.0	657.0
70.00			0.3125	37.145	36.532	6,261.60	19.20	118.86	78.8	332.0	0.0	633.4
75.00			0.3125	35.745	35.143	5,574.40	18.41	114.38	79.8	307.2	0.0	609.7
79.00	Bot - Section 3		0.3125	34.625	34.032	5,062.30	17.77	110.80	80.5	288.0	0.0	470.8
80.00			0.3125	34.345	33.755	4,939.40	17.62	109.90	80.7	283.3	0.0	185.6
83.83	Top - Section 2		0.1875	33.647	19.912	2,816.40	29.88	179.45	66.3	164.9	0.0	697.2
85.00			0.1875	33.320	19.717	2,734.70	29.57	177.71	66.6	161.7	0.0	78.7
90.00			0.1875	31.920	18.884	2,402.50	28.25	170.24	68.2	148.2	0.0	328.4
92.10			0.1875	31.332	18.534	2,271.40	27.70	167.10	68.8	142.8	0.0	133.7
95.00			0.1875	30.520	18.051	2,098.30	26.94	162.77	69.7	135.4	0.0	180.5
96.70			0.1875	30.044	17.768	2,001.10	26.49	160.23	70.2	131.2	0.0	103.6
100.00			0.1875	29.120	17.218	1,821.00	25.62	155.31	71.3	123.2	0.0	196.4
101.90			0.1875	28.588	16.901	1,722.40	25.12	152.47	71.9	118.7	0.0	110.3
104.00			0.1875	28.000	16.551	1,617.60	24.57	149.33	72.5	113.8	0.0	119.5
105.00			0.1875	27.720	16.385	1,569.20	24.30	147.84	72.8	111.5	0.0	56.0
108.60			0.1875	26.712	15.785	1,403.10	23.36	142.46	73.9	103.5	0.0	197.0
110.00			0.1875	26.320	15.552	1,341.80	22.99	140.37	74.4	100.4	0.0	74.6
114.00			0.1875	25.200	14.885	1,176.60	21.94	134.40	75.6	92.0	0.0	207.1
115.00			0.1875	24.920	14.718	1,137.50	21.67	132.91	75.9	89.9	0.0	50.4
116.90			0.1875	24.388	14.402	1,065.70	21.17	130.07	76.5	86.1	0.0	94.1
120.00			0.1875	23.520	13.885	955.10	20.36	125.44	77.5	80.0	0.0	149.2
125.00			0.1875	22.120	13.052	793.20	19.04	117.97	79	70.6	0.0	229.2
125.50			0.1875	21.980	12.969	778.20	18.91	117.23	79.2	69.7	0.0	22.1
126.00			0.1875	21.840	12.885	763.30	18.78	116.48	79.3	68.8	0.0	22.0
129.00			0.1875	21.000	12.386	677.80	17.99	112.00	80.2	63.6	0.0	129.0
Total:												16,387.3

CALCULATED FORCES													
Load Case: 1.2D + 1.0W			112.09 mph Wind with No Ice										23 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	-42.45	-26.67	0.00	-2,702.6	0.00	2,702.59	3,299.40	971.43	4,896.32	3,797.13	0	0	0.725
5.00	-41.02	-26.40	0.00	-2,569.3	0.00	2,569.26	3,261.75	947.06	4,653.77	3,659.11	0.09	-0.17	0.716
10.00	-39.61	-26.15	0.00	-2,437.2	0.00	2,437.24	3,221.78	922.69	4,417.37	3,520.74	0.37	-0.35	0.705
15.00	-38.24	-25.89	0.00	-2,306.5	0.00	2,306.51	3,179.49	898.32	4,187.13	3,382.22	0.83	-0.53	0.695
20.00	-36.89	-25.64	0.00	-2,177.1	0.00	2,177.06	3,134.88	873.95	3,963.06	3,243.76	1.49	-0.71	0.684
25.00	-35.57	-25.40	0.00	-2,048.8	0.00	2,048.85	3,087.95	849.58	3,745.15	3,105.54	2.34	-0.9	0.672
30.00	-34.28	-25.18	0.00	-1,921.9	0.00	1,921.86	3,038.69	825.21	3,533.40	2,967.79	3.39	-1.1	0.660
33.83	-33.33	-25.05	0.00	-1,825.3	0.00	1,825.33	2,999.35	806.53	3,375.23	2,862.62	4.33	-1.25	0.650
35.00	-32.79	-24.91	0.00	-1,796.1	0.00	1,796.10	2,987.11	800.84	3,327.81	2,830.70	4.64	-1.3	0.646
40.00	-30.66	-24.73	0.00	-1,671.6	0.00	1,671.57	2,933.21	776.47	3,128.38	2,694.46	6.11	-1.5	0.632

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

CALCULATED FORCES

40.33	-30.48	-24.61	0.00	-1,663.3	0.00	1,663.33	2,953.95	785.73	3,203.39	2,746.09	6.22	-1.52	0.617
45.00	-29.35	-24.35	0.00	-1,548.5	0.00	1,548.48	2,902.37	762.98	3,020.63	2,619.49	7.8	-1.71	0.602
50.00	-28.16	-24.08	0.00	-1,426.7	0.00	1,426.71	2,844.86	738.61	2,830.78	2,485.00	9.7	-1.91	0.585
55.00	-27.00	-23.80	0.00	-1,306.3	0.00	1,306.33	2,785.03	714.24	2,647.08	2,351.89	11.8	-2.11	0.566
60.00	-25.88	-23.52	0.00	-1,187.3	0.00	1,187.34	2,722.88	689.87	2,469.55	2,220.35	14.13	-2.32	0.545
65.00	-24.78	-23.24	0.00	-1,069.8	0.00	1,069.75	2,658.40	665.50	2,298.18	2,090.60	16.66	-2.52	0.522
70.00	-23.72	-22.95	0.00	-953.6	0.00	953.58	2,591.60	641.14	2,132.97	1,962.83	19.42	-2.73	0.496
75.00	-22.69	-22.69	0.00	-838.8	0.00	838.82	2,522.48	616.77	1,973.93	1,837.26	22.38	-2.93	0.467
79.00	-21.91	-22.53	0.00	-748.1	0.00	748.06	2,465.51	597.27	1,851.13	1,738.50	24.91	-3.09	0.441
80.00	-21.61	-22.40	0.00	-725.5	0.00	725.53	2,451.04	592.40	1,821.04	1,714.07	25.56	-3.14	0.434
83.83	-20.56	-22.23	0.00	-639.6	0.00	639.65	1,187.39	349.45	1,056.01	819.28	28.14	-3.29	0.802
85.00	-20.35	-22.10	0.00	-613.7	0.00	613.72	1,182.21	346.04	1,035.49	807.70	28.95	-3.33	0.781
90.00	-19.66	-21.91	0.00	-503.2	0.00	503.25	1,158.57	331.42	949.84	757.92	32.6	-3.62	0.685
92.10	-18.50	-20.33	0.00	-457.2	0.00	457.23	1,147.95	325.28	914.97	736.97	34.22	-3.74	0.640
95.00	-18.11	-20.22	0.00	-398.3	0.00	398.26	1,132.61	316.79	867.88	708.05	36.54	-3.9	0.583
96.70	-17.08	-18.59	0.00	-363.9	0.00	363.90	1,123.26	311.82	840.86	691.12	37.95	-3.99	0.545
100.00	-16.66	-18.45	0.00	-302.6	0.00	302.56	1,104.33	302.17	789.62	658.31	40.76	-4.14	0.478
101.90	-15.63	-16.81	0.00	-267.5	0.00	267.51	1,092.98	296.62	760.85	639.49	42.42	-4.23	0.436
104.00	-11.97	-14.37	0.00	-232.2	0.00	232.21	1,080.04	290.48	729.68	618.75	44.3	-4.31	0.389
105.00	-11.85	-14.26	0.00	-217.8	0.00	217.83	1,073.73	287.55	715.06	608.90	45.21	-4.35	0.371
108.60	-10.45	-12.19	0.00	-166.5	0.00	166.49	1,050.26	277.02	663.67	573.64	48.54	-4.48	0.302
110.00	-10.23	-12.02	0.00	-149.4	0.00	149.43	1,040.80	272.93	644.20	560.01	49.86	-4.52	0.279
114.00	-6.12	-9.40	0.00	-99.2	0.00	99.24	1,012.79	261.23	590.17	521.42	53.69	-4.63	0.198
115.00	-6.03	-9.32	0.00	-89.8	0.00	89.84	1,005.56	258.31	577.03	511.86	54.66	-4.65	0.183
116.90	-4.86	-7.22	0.00	-72.1	0.00	72.13	991.55	252.75	552.48	493.79	56.52	-4.69	0.152
120.00	-4.58	-7.01	0.00	-49.7	0.00	49.74	967.99	243.69	513.56	464.63	59.58	-4.74	0.113
125.00	-4.13	-6.85	0.00	-14.7	0.00	14.68	928.10	229.06	453.79	418.54	64.57	-4.79	0.040
125.50	-3.48	-5.47	0.00	-11.2	0.00	11.25	923.98	227.60	448.01	414.00	65.07	-4.79	0.032
126.00	-0.23	-0.75	0.00	-4.2	0.00	4.23	919.84	226.14	442.28	409.48	65.57	-4.79	0.011
129.00	0.00	-0.73	0.00	-2.0	0.00	1.98	894.51	217.37	408.63	382.62	68.58	-4.8	0.005

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

CALCULATED FORCES

Load Case: 0.9D + 1.0W

112.09 mph Wind with No Ice (Reduced DL)

23 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	-31.83	-26.65	0.00	-2,674.5	0.00	2,674.50	3,299.40	971.43	4,896.32	3,797.13	0	0	0.715
5.00	-30.74	-26.36	0.00	-2,541.2	0.00	2,541.25	3,261.75	947.06	4,653.77	3,659.11	0.09	-0.17	0.705
10.00	-29.66	-26.07	0.00	-2,409.5	0.00	2,409.48	3,221.78	922.69	4,417.37	3,520.74	0.36	-0.34	0.694
15.00	-28.61	-25.78	0.00	-2,279.2	0.00	2,279.15	3,179.49	898.32	4,187.13	3,382.22	0.82	-0.52	0.684
20.00	-27.58	-25.51	0.00	-2,150.2	0.00	2,150.23	3,134.88	873.95	3,963.06	3,243.76	1.47	-0.71	0.673
25.00	-26.57	-25.23	0.00	-2,022.7	0.00	2,022.70	3,087.95	849.58	3,745.15	3,105.54	2.31	-0.89	0.661
30.00	-25.59	-25.00	0.00	-1,896.5	0.00	1,896.53	3,038.69	825.21	3,533.40	2,967.79	3.35	-1.08	0.648
33.83	-24.87	-24.86	0.00	-1,800.7	0.00	1,800.71	2,999.35	806.53	3,375.23	2,862.62	4.28	-1.24	0.638
35.00	-24.45	-24.69	0.00	-1,771.7	0.00	1,771.71	2,987.11	800.84	3,327.81	2,830.70	4.59	-1.28	0.635
40.00	-22.85	-24.52	0.00	-1,648.2	0.00	1,648.24	2,933.21	776.47	3,128.38	2,694.46	6.04	-1.48	0.620
40.33	-22.70	-24.38	0.00	-1,640.1	0.00	1,640.07	2,953.95	785.73	3,203.39	2,746.09	6.15	-1.5	0.606
45.00	-21.83	-24.11	0.00	-1,526.3	0.00	1,526.28	2,902.37	762.98	3,020.63	2,619.49	7.71	-1.69	0.591
50.00	-20.93	-23.81	0.00	-1,405.7	0.00	1,405.74	2,844.86	738.61	2,830.78	2,485.00	9.58	-1.88	0.574
55.00	-20.05	-23.52	0.00	-1,286.7	0.00	1,286.68	2,785.03	714.24	2,647.08	2,351.89	11.66	-2.08	0.555
60.00	-19.19	-23.22	0.00	-1,169.1	0.00	1,169.09	2,722.88	689.87	2,469.55	2,220.35	13.95	-2.29	0.535
65.00	-18.35	-22.93	0.00	-1,053.0	0.00	1,052.97	2,658.40	665.50	2,298.18	2,090.60	16.46	-2.49	0.512
70.00	-17.54	-22.63	0.00	-938.3	0.00	938.34	2,591.60	641.14	2,132.97	1,962.83	19.17	-2.69	0.486
75.00	-16.75	-22.36	0.00	-825.2	0.00	825.17	2,522.48	616.77	1,973.93	1,837.26	22.1	-2.89	0.457
79.00	-16.16	-22.21	0.00	-735.7	0.00	735.72	2,465.51	597.27	1,851.13	1,738.50	24.59	-3.05	0.431
80.00	-15.93	-22.07	0.00	-713.5	0.00	713.51	2,451.04	592.40	1,821.04	1,714.07	25.23	-3.09	0.424
83.83	-15.13	-21.90	0.00	-628.9	0.00	628.90	1,187.39	349.45	1,056.01	819.28	27.78	-3.24	0.784
85.00	-14.97	-21.75	0.00	-603.4	0.00	603.35	1,182.21	346.04	1,035.49	807.70	28.57	-3.29	0.764
90.00	-14.43	-21.56	0.00	-494.6	0.00	494.59	1,158.57	331.42	949.84	757.92	32.17	-3.57	0.669
92.10	-13.58	-19.99	0.00	-449.3	0.00	449.31	1,147.95	325.28	914.97	736.97	33.77	-3.69	0.625
95.00	-13.28	-19.87	0.00	-391.3	0.00	391.34	1,132.61	316.79	867.88	708.05	36.06	-3.84	0.568
96.70	-12.52	-18.25	0.00	-357.6	0.00	357.57	1,123.26	311.82	840.86	691.12	37.44	-3.93	0.532
100.00	-12.20	-18.11	0.00	-297.4	0.00	297.35	1,104.33	302.17	789.62	658.31	40.21	-4.08	0.466
101.90	-11.45	-16.49	0.00	-263.0	0.00	262.95	1,092.98	296.62	760.85	639.49	41.85	-4.16	0.425
104.00	-8.74	-14.12	0.00	-228.3	0.00	228.33	1,080.04	290.48	729.68	618.75	43.7	-4.25	0.379
105.00	-8.65	-14.00	0.00	-214.2	0.00	214.21	1,073.73	287.55	715.06	608.90	44.6	-4.29	0.362
108.60	-7.63	-11.95	0.00	-163.8	0.00	163.80	1,050.26	277.02	663.67	573.64	47.88	-4.41	0.295
110.00	-7.46	-11.79	0.00	-147.1	0.00	147.06	1,040.80	272.93	644.20	560.01	49.18	-4.46	0.272
114.00	-4.43	-9.26	0.00	-97.8	0.00	97.80	1,012.79	261.23	590.17	521.42	52.96	-4.56	0.193
115.00	-4.35	-9.18	0.00	-88.5	0.00	88.54	1,005.56	258.31	577.03	511.86	53.91	-4.58	0.179
116.90	-3.51	-7.11	0.00	-71.1	0.00	71.10	991.55	252.75	552.48	493.79	55.74	-4.62	0.148
120.00	-3.30	-6.90	0.00	-49.1	0.00	49.07	967.99	243.69	513.56	464.63	58.76	-4.67	0.110
125.00	-2.97	-6.75	0.00	-14.6	0.00	14.56	928.10	229.06	453.79	418.54	63.67	-4.72	0.039
125.50	-2.51	-5.39	0.00	-11.2	0.00	11.19	923.98	227.60	448.01	414.00	64.17	-4.72	0.030
126.00	-0.16	-0.74	0.00	-4.2	0.00	4.21	919.84	226.14	442.28	409.48	64.66	-4.72	0.010
129.00	0.00	-0.73	0.00	-2.0	0.00	1.98	894.51	217.37	408.63	382.62	67.63	-4.73	0.005

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi 62.38 mph Wind with 1.36" Radial Ice 23 Iterations
Gust Response Factor: 1.10 Ice Dead Load Factor 1.00
Dead load Factor: 1.20
Wind Load Factor: 1.00 Ice Importance Factor 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-64.97	-13.54	0.00	-1,389.4	0.00	1,389.37	3,299.40	971.43	4,896.32	3,797.13	0	0	0.386
5.00	-63.23	-13.43	0.00	-1,321.7	0.00	1,321.67	3,261.75	947.06	4,653.77	3,659.11	0.05	-0.09	0.381
10.00	-61.48	-13.33	0.00	-1,254.5	0.00	1,254.50	3,221.78	922.69	4,417.37	3,520.74	0.19	-0.18	0.376
15.00	-59.75	-13.22	0.00	-1,187.9	0.00	1,187.86	3,179.49	898.32	4,187.13	3,382.22	0.43	-0.27	0.370
20.00	-58.05	-13.12	0.00	-1,121.7	0.00	1,121.74	3,134.88	873.95	3,963.06	3,243.76	0.76	-0.37	0.365
25.00	-56.37	-13.02	0.00	-1,056.1	0.00	1,056.13	3,087.95	849.58	3,745.15	3,105.54	1.2	-0.47	0.359
30.00	-54.73	-12.93	0.00	-991.0	0.00	991.02	3,038.69	825.21	3,533.40	2,967.79	1.74	-0.57	0.352
33.83	-53.49	-12.88	0.00	-941.4	0.00	941.44	2,999.35	806.53	3,375.23	2,862.62	2.23	-0.64	0.347
35.00	-52.89	-12.82	0.00	-926.4	0.00	926.42	2,987.11	800.84	3,327.81	2,830.70	2.39	-0.67	0.345
40.00	-50.39	-12.74	0.00	-862.3	0.00	862.33	2,933.21	776.47	3,128.38	2,694.46	3.15	-0.77	0.337
40.33	-50.21	-12.69	0.00	-858.1	0.00	858.09	2,953.95	785.73	3,203.39	2,746.09	3.2	-0.78	0.330
45.00	-48.76	-12.58	0.00	-798.9	0.00	798.87	2,902.37	762.98	3,020.63	2,619.49	4.02	-0.88	0.322
50.00	-47.24	-12.45	0.00	-736.0	0.00	735.98	2,844.86	738.61	2,830.78	2,485.00	4.99	-0.98	0.313
55.00	-45.75	-12.33	0.00	-673.7	0.00	673.71	2,785.03	714.24	2,647.08	2,351.89	6.08	-1.09	0.303
60.00	-44.31	-12.20	0.00	-612.1	0.00	612.07	2,722.88	689.87	2,469.55	2,220.35	7.28	-1.19	0.292
65.00	-42.90	-12.07	0.00	-551.1	0.00	551.07	2,658.40	665.50	2,298.18	2,090.60	8.59	-1.3	0.280
70.00	-41.53	-11.94	0.00	-490.7	0.00	490.73	2,591.60	641.14	2,132.97	1,962.83	10	-1.41	0.266
75.00	-40.20	-11.81	0.00	-431.0	0.00	431.04	2,522.48	616.77	1,973.93	1,837.26	11.53	-1.51	0.251
79.00	-39.17	-11.73	0.00	-383.8	0.00	383.80	2,465.51	597.27	1,851.13	1,738.50	12.84	-1.59	0.237
80.00	-38.83	-11.67	0.00	-372.1	0.00	372.07	2,451.04	592.40	1,821.04	1,714.07	13.17	-1.62	0.233
83.83	-37.55	-11.58	0.00	-327.3	0.00	327.32	1,187.39	349.45	1,056.01	819.28	14.5	-1.69	0.432
85.00	-37.31	-11.53	0.00	-313.8	0.00	313.80	1,182.21	346.04	1,035.49	807.70	14.92	-1.72	0.421
90.00	-36.34	-11.45	0.00	-256.1	0.00	256.14	1,158.57	331.42	949.84	757.92	16.8	-1.86	0.371
92.10	-34.62	-10.66	0.00	-232.1	0.00	232.10	1,147.95	325.28	914.97	736.97	17.63	-1.92	0.346
95.00	-34.08	-10.60	0.00	-201.2	0.00	201.19	1,132.61	316.79	867.88	708.05	18.83	-2	0.315
96.70	-32.51	-9.78	0.00	-183.2	0.00	183.17	1,123.26	311.82	840.86	691.12	19.55	-2.05	0.295
100.00	-31.92	-9.71	0.00	-150.9	0.00	150.90	1,104.33	302.17	789.62	658.31	20.99	-2.13	0.259
101.90	-30.33	-8.88	0.00	-132.5	0.00	132.46	1,092.98	296.62	760.85	639.49	21.85	-2.17	0.236
104.00	-23.10	-7.23	0.00	-113.8	0.00	113.81	1,080.04	290.48	729.68	618.75	22.81	-2.21	0.206
105.00	-22.93	-7.17	0.00	-106.6	0.00	106.58	1,073.73	287.55	715.06	608.90	23.28	-2.23	0.197
108.60	-20.75	-6.10	0.00	-80.8	0.00	80.76	1,050.26	277.02	663.67	573.64	24.98	-2.29	0.161
110.00	-20.40	-6.01	0.00	-72.2	0.00	72.22	1,040.80	272.93	644.20	560.01	25.66	-2.31	0.149
114.00	-12.27	-4.59	0.00	-47.3	0.00	47.34	1,012.79	261.23	590.17	521.42	27.62	-2.36	0.103
115.00	-12.12	-4.55	0.00	-42.8	0.00	42.75	1,005.56	258.31	577.03	511.86	28.12	-2.38	0.096
116.90	-10.24	-3.46	0.00	-34.1	0.00	34.11	991.55	252.75	552.48	493.79	29.07	-2.39	0.080
120.00	-9.80	-3.33	0.00	-23.4	0.00	23.39	967.99	243.69	513.56	464.63	30.63	-2.42	0.061
125.00	-9.12	-3.23	0.00	-6.7	0.00	6.72	928.10	229.06	453.79	418.54	33.17	-2.44	0.026
125.50	-8.05	-2.52	0.00	-5.1	0.00	5.10	923.98	227.60	448.01	414.00	33.43	-2.44	0.021
126.00	-0.47	-0.39	0.00	-2.2	0.00	2.17	919.84	226.14	442.28	409.48	33.69	-2.44	0.006
129.00	0.00	-0.37	0.00	-1.0	0.00	1.00	894.51	217.37	408.63	382.62	35.22	-2.44	0.003

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

CALCULATED FORCES

Load Case: 1.0D + 1.0W

60 mph Wind with No Ice

22 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	-35.41	-6.83	0.00	-688.6	0.00	688.60	3,299.40	971.43	4,896.32	3,797.13	0	0	0.192
5.00	-34.28	-6.76	0.00	-654.4	0.00	654.44	3,261.75	947.06	4,653.77	3,659.11	0.02	-0.04	0.189
10.00	-33.17	-6.69	0.00	-620.6	0.00	620.64	3,221.78	922.69	4,417.37	3,520.74	0.09	-0.09	0.187
15.00	-32.08	-6.62	0.00	-587.2	0.00	587.19	3,179.49	898.32	4,187.13	3,382.22	0.21	-0.13	0.184
20.00	-31.02	-6.55	0.00	-554.1	0.00	554.10	3,134.88	873.95	3,963.06	3,243.76	0.38	-0.18	0.181
25.00	-29.98	-6.48	0.00	-521.4	0.00	521.35	3,087.95	849.58	3,745.15	3,105.54	0.59	-0.23	0.178
30.00	-28.96	-6.42	0.00	-488.9	0.00	488.93	3,038.69	825.21	3,533.40	2,967.79	0.86	-0.28	0.174
33.83	-28.20	-6.39	0.00	-464.3	0.00	464.30	2,999.35	806.53	3,375.23	2,862.62	1.1	-0.32	0.172
35.00	-27.78	-6.35	0.00	-456.8	0.00	456.84	2,987.11	800.84	3,327.81	2,830.70	1.18	-0.33	0.171
40.00	-26.04	-6.31	0.00	-425.1	0.00	425.10	2,933.21	776.47	3,128.38	2,694.46	1.56	-0.38	0.167
40.33	-25.93	-6.27	0.00	-423.0	0.00	422.99	2,953.95	785.73	3,203.39	2,746.09	1.58	-0.39	0.163
45.00	-25.04	-6.20	0.00	-393.7	0.00	393.72	2,902.37	762.98	3,020.63	2,619.49	1.99	-0.43	0.159
50.00	-24.10	-6.13	0.00	-362.7	0.00	362.71	2,844.86	738.61	2,830.78	2,485.00	2.47	-0.49	0.154
55.00	-23.20	-6.06	0.00	-332.0	0.00	332.05	2,785.03	714.24	2,647.08	2,351.89	3	-0.54	0.150
60.00	-22.31	-5.98	0.00	-301.8	0.00	301.77	2,722.88	689.87	2,469.55	2,220.35	3.6	-0.59	0.144
65.00	-21.45	-5.91	0.00	-271.8	0.00	271.85	2,658.40	665.50	2,298.48	2,090.60	4.24	-0.64	0.138
70.00	-20.62	-5.84	0.00	-242.3	0.00	242.31	2,591.60	641.14	2,132.97	1,962.83	4.94	-0.69	0.131
75.00	-19.80	-5.77	0.00	-213.1	0.00	213.13	2,522.48	616.77	1,973.93	1,837.26	5.7	-0.75	0.124
79.00	-19.17	-5.73	0.00	-190.1	0.00	190.06	2,465.51	597.27	1,851.13	1,738.50	6.34	-0.79	0.117
80.00	-18.94	-5.69	0.00	-184.3	0.00	184.33	2,451.04	592.40	1,821.04	1,714.07	6.51	-0.8	0.115
83.83	-18.09	-5.65	0.00	-162.5	0.00	162.50	1,187.39	349.45	1,056.01	819.28	7.16	-0.84	0.214
85.00	-17.96	-5.61	0.00	-155.9	0.00	155.91	1,182.21	346.04	1,035.49	807.70	7.37	-0.85	0.208
90.00	-17.43	-5.57	0.00	-127.8	0.00	127.84	1,158.57	331.42	949.84	757.92	8.3	-0.92	0.184
92.10	-16.43	-5.16	0.00	-116.2	0.00	116.15	1,147.95	325.28	914.97	736.97	8.71	-0.95	0.172
95.00	-16.13	-5.13	0.00	-101.2	0.00	101.17	1,132.61	316.79	867.88	708.05	9.3	-0.99	0.157
96.70	-15.21	-4.72	0.00	-92.4	0.00	92.44	1,123.26	311.82	840.86	691.12	9.66	-1.01	0.148
100.00	-14.88	-4.68	0.00	-76.9	0.00	76.88	1,104.33	302.17	789.62	658.31	10.37	-1.05	0.130
101.90	-13.95	-4.26	0.00	-68.0	0.00	67.98	1,092.98	296.62	760.85	639.49	10.8	-1.07	0.119
104.00	-10.78	-3.65	0.00	-59.0	0.00	59.03	1,080.04	290.48	729.68	618.75	11.27	-1.1	0.106
105.00	-10.69	-3.62	0.00	-55.4	0.00	55.38	1,073.73	287.55	715.06	608.90	11.51	-1.11	0.101
108.60	-9.42	-3.09	0.00	-42.3	0.00	42.34	1,050.26	277.02	663.67	573.64	12.35	-1.14	0.083
110.00	-9.24	-3.05	0.00	-38.0	0.00	38.01	1,040.80	272.93	644.20	560.01	12.69	-1.15	0.077
114.00	-5.67	-2.39	0.00	-25.3	0.00	25.27	1,012.79	261.23	590.17	521.42	13.66	-1.18	0.054
115.00	-5.59	-2.37	0.00	-22.9	0.00	22.87	1,005.56	258.31	577.03	511.86	13.91	-1.18	0.050
116.90	-4.49	-1.84	0.00	-18.4	0.00	18.37	991.55	252.75	552.48	493.79	14.38	-1.19	0.042
120.00	-4.25	-1.78	0.00	-12.7	0.00	12.67	967.99	243.69	513.56	464.63	15.16	-1.21	0.032
125.00	-3.87	-1.74	0.00	-3.8	0.00	3.75	928.10	229.06	453.79	418.54	16.43	-1.22	0.013
125.50	-3.24	-1.39	0.00	-2.9	0.00	2.88	923.98	227.60	448.01	414.00	16.56	-1.22	0.010
126.00	-0.24	-0.19	0.00	-1.1	0.00	1.08	919.84	226.14	442.28	409.48	16.69	-1.22	0.003
129.00	0.00	-0.19	0.00	-0.5	0.00	0.51	894.51	217.37	408.63	382.62	17.46	-1.22	0.001

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

Design Spectral Response Acceleration at Short Period (S_{ds}):	0.160
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.067
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_e):	1.000
Response Modification Coefficient (R):	1.500
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):	2.080
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	1.790
Total Unfactored Dead Load:	35.410 k
Seismic Base Shear (E):	1.060 k

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh	Seismic	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
Segment							
39		127.5	129	749	0.008	8	159
38		125.75	37	211	0.002	2	46
37		125.25	37	210	0.002	2	46
36		122.5	381	2,059	0.021	22	469
35		118.45	243	1,238	0.013	13	300
34		115.95	152	744	0.008	8	187
33		114.5	81	387	0.004	4	99
32		112	341	1,572	0.016	17	421
31		109.3	122	536	0.006	6	150
30		106.8	318	1,345	0.014	15	392
29		104.5	90	365	0.004	4	110
28		102.95	203	804	0.008	9	250
27		100.95	186	711	0.007	8	229
26		98.35	328	1,196	0.012	13	404
25		95.85	171	597	0.006	6	211
24		93.55	296	987	0.010	11	364
23		91.05	217	691	0.007	8	268
22		87.5	527	1,561	0.016	17	649
21		84.4167	125	347	0.004	4	154
20		81.9167	850	2,237	0.023	24	1,047
19		79.5	225	562	0.006	6	278
18		77	630	1,484	0.015	16	776
17		72.5	808	1,711	0.018	19	996
16		67.5	832	1,550	0.016	17	1,025
15		62.5	856	1,389	0.014	15	1,054
14		57.5	879	1,230	0.013	13	1,083
13		52.5	903	1,073	0.011	12	1,112
12		47.5	927	921	0.009	10	1,142
11		42.6667	886	727	0.007	8	1,092
10		40.1667	114	84	0.001	1	141
9		37.5	1,738	1,132	0.012	12	2,142
8		34.4167	412	230	0.002	3	508
7		31.9167	759	370	0.004	4	935
6		27.5	1,011	378	0.004	4	1,245
5		22.5	1,034	270	0.003	3	1,274
4		17.5	1,058	176	0.002	2	1,303
3		12.5	1,081	99	0.001	1	1,332
2		7.5	1,105	41	0.000	0	1,361
1		2.5	1,129	6	0.000	0	1,391
Top Hat		129	118	700	0.007	8	145
Ericsson RRUS 8843 B2, B66A		126	216	1,228	0.013	13	266
4' Pine Tree Branches		126	78	443	0.004	5	96

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
4' Pine Tree Branches	125.5	598	3,375	0.034	37	737
Ericsson RRUS 4478 B14 (16.5" Height)	126	180	1,021	0.010	11	221
Ericsson RRUS 4449 B5, B12	126	213	1,211	0.012	13	262
Raycap DC2-48-60-8-18F-02	126	44	247	0.002	3	54
Ericsson RRUS 11 B5	126	152	865	0.009	9	187
Commscope SBNH-1D6565C	126	182	1,037	0.011	11	225
CCI HPA-65R-BUJ-H8	126	204	1,160	0.012	13	251
T-Arms with Mods	126	1,200	6,821	0.070	74	1,478
CCI DMP65R-BU8D	126	287	1,632	0.017	18	354
CCI OPA65R-BU8D	126	230	1,305	0.013	14	283
6' Pine Tree Branches	116.9	960	4,773	0.049	52	1,183
6' Pine Tree Branches	108.6	960	4,184	0.043	45	1,183
Kaelus BSF0020F3V1-1	114	31	146	0.002	2	38
Samsung B2/B66A RRH-BR049	114	253	1,204	0.012	13	312
Samsung B5/B13 RRH-BR04C	114	211	1,002	0.010	11	260
Raycap RCMD-6627-PF-48	114	32	152	0.002	2	39
Samsung MT6407-77A	114	245	1,164	0.012	13	302
Commscope JAH-65B-R3B	114	364	1,728	0.018	19	448
Generic Round Sector Frame	114	2,100	9,982	0.102	108	2,587
Commscope CBC78T-DS-43-2X	110	62	277	0.003	3	77
MSFAA Collar Mount	104	0	0	0.000	0	0
Ericsson Radio 4460 B25+B66	104	327	1,319	0.014	14	403
Ericsson Radio 4480 B71+B85	104	279	1,125	0.012	12	344
Site Pro 1 VFA12-HD	104	2,070	8,350	0.085	91	2,550
Ericsson 840590966	104	304	1,227	0.012	13	375
8' Pine Tree Branches	101.9	750	2,917	0.030	32	924
8' Pine Tree Branches	96.7	750	2,656	0.027	29	924
10' Pine Tree Branches	92.1	792	2,571	0.026	28	976
Totals:		35,412	97,802	1.000	1,062	43,628

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
39	127.5	129	749	0.008	8	112
38	125.75	37	211	0.002	2	32
37	125.25	37	210	0.002	2	32
36	122.5	381	2,059	0.021	22	331
35	118.45	243	1,238	0.013	13	211
34	115.95	152	744	0.008	8	132
33	114.5	81	387	0.004	4	70
32	112	341	1,572	0.016	17	296
31	109.3	122	536	0.006	6	106
30	106.8	318	1,345	0.014	15	276
29	104.5	90	365	0.004	4	78
28	102.95	203	804	0.008	9	176
27	100.95	186	711	0.007	8	161
26	98.35	328	1,196	0.012	13	284
25	95.85	171	597	0.006	6	149
24	93.55	296	987	0.010	11	257
23	91.05	217	691	0.007	8	189
22	87.5	527	1,561	0.016	17	458
21	84.4167	125	347	0.004	4	109
20	81.9167	850	2,237	0.023	24	737
19	79.5	225	562	0.006	6	196
18	77	630	1,484	0.015	16	547
17	72.5	808	1,711	0.018	19	702
16	67.5	832	1,550	0.016	17	722
15	62.5	856	1,389	0.014	15	743
14	57.5	879	1,230	0.013	13	763
13	52.5	903	1,073	0.011	12	784

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
12	47.5	927	921	0.009	10	804
11	42.6667	886	727	0.007	8	769
10	40.1667	114	84	0.001	1	99
9	37.5	1,738	1,132	0.012	12	1,509
8	34.4167	412	230	0.002	3	358
7	31.9167	759	370	0.004	4	659
6	27.5	1,011	378	0.004	4	877
5	22.5	1,034	270	0.003	3	898
4	17.5	1,058	176	0.002	2	918
3	12.5	1,081	99	0.001	1	939
2	7.5	1,105	41	0.000	0	959
1	2.5	1,129	6	0.000	0	980
Top Hat	129	118	700	0.007	8	102
Ericsson RRUS 8843 B2, B66A	126	216	1,228	0.013	13	187
4' Pine Tree Branches	126	78	443	0.004	5	68
4' Pine Tree Branches	125.5	598	3,375	0.034	37	519
Ericsson RRUS 4478 B14 (16.5" Height)	126	180	1,021	0.010	11	156
Ericsson RRUS 4449 B5, B12	126	213	1,211	0.012	13	185
Raycap DC2-48-60-8-18F-02	126	44	247	0.002	3	38
Ericsson RRUS 11 B5	126	152	865	0.009	9	132
Commscope SBNH-1D6565C	126	182	1,037	0.011	11	158
CCI HPA-65R-BUU-H8	126	204	1,160	0.012	13	177
T-Arms with Mods	126	1,200	6,821	0.070	74	1,042
CCI DMP65R-BU8D	126	287	1,632	0.017	18	249
CCI OPA65R-BU8D	126	230	1,305	0.013	14	199
6' Pine Tree Branches	116.9	960	4,773	0.049	52	833
6' Pine Tree Branches	108.6	960	4,184	0.043	45	833
Kaelus BSF0020F3V1-1	114	31	146	0.002	2	27
Samsung B2/B66A RRH-BR049	114	253	1,204	0.012	13	220
Samsung B5/B13 RRH-BR04C	114	211	1,002	0.010	11	183
Raycap RCMDC-6627-PF-48	114	32	152	0.002	2	28
Samsung MT6407-77A	114	245	1,164	0.012	13	212
Commscope JAHH-65B-R3B	114	364	1,728	0.018	19	316
Generic Round Sector Frame	114	2,100	9,982	0.102	108	1,823
Commscope CBC78T-DS-43-2X	110	62	277	0.003	3	54
MSFAA Collar Mount	104	0	0	0.000	0	0
Ericsson Radio 4460 B25+B66	104	327	1,319	0.014	14	284
Ericsson Radio 4480 B71+B85	104	279	1,125	0.012	12	242
Site Pro 1 VFA12-HD	104	2,070	8,350	0.085	91	1,797
Ericsson 840590966	104	304	1,227	0.012	13	264
8' Pine Tree Branches	101.9	750	2,917	0.030	32	651
8' Pine Tree Branches	96.7	750	2,656	0.027	29	651
10' Pine Tree Branches	92.1	792	2,571	0.026	28	687
Totals:		35,412	97,802	1.000	1,062	30,738

SEISMIC FORCES

1.2D + 1.0Ev + 1.5Eh

Seismic Overstrength

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
39	127.5	129	749	0.008	12	159
38	125.75	37	211	0.002	3	46
37	125.25	37	210	0.002	3	46
36	122.5	381	2,059	0.021	34	469
35	118.45	243	1,238	0.013	20	300
34	115.95	152	744	0.008	12	187
33	114.5	81	387	0.004	6	99
32	112	341	1,572	0.016	26	421
31	109.3	122	536	0.006	9	150
30	106.8	318	1,345	0.014	22	392
29	104.5	90	365	0.004	6	110
28	102.95	203	804	0.008	13	250

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

SEISMIC FORCES

1.2D + 1.0Ev + 1.5Eh

Seismic Overstrength

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
27	100.95	186	711	0.007	12	229
26	98.35	328	1,196	0.012	19	404
25	95.85	171	597	0.006	10	211
24	93.55	296	987	0.010	16	364
23	91.05	217	691	0.007	11	268
22	87.5	527	1,561	0.016	25	649
21	84.4167	125	347	0.004	6	154
20	81.9167	850	2,237	0.023	36	1,047
19	79.5	225	562	0.006	9	278
18	77	630	1,484	0.015	24	776
17	72.5	808	1,711	0.018	28	996
16	67.5	832	1,550	0.016	25	1,025
15	62.5	856	1,389	0.014	23	1,054
14	57.5	879	1,230	0.013	20	1,083
13	52.5	903	1,073	0.011	17	1,112
12	47.5	927	921	0.009	15	1,142
11	42.6667	886	727	0.007	12	1,092
10	40.1667	114	84	0.001	1	141
9	37.5	1,738	1,132	0.012	18	2,142
8	34.4167	412	230	0.002	4	508
7	31.9167	759	370	0.004	6	935
6	27.5	1,011	378	0.004	6	1,245
5	22.5	1,034	270	0.003	4	1,274
4	17.5	1,058	176	0.002	3	1,303
3	12.5	1,081	99	0.001	2	1,332
2	7.5	1,105	41	0.000	1	1,361
1	2.5	1,129	6	0.000	0	1,391
Top Hat	129	118	700	0.007	11	145
Ericsson RRUS 8843 B2, B66A	126	216	1,228	0.013	20	266
4' Pine Tree Branches	126	78	443	0.004	7	96
4' Pine Tree Branches	125.5	598	3,375	0.034	55	737
Ericsson RRUS 4478 B14 (16.5" Height)	126	180	1,021	0.010	17	221
Ericsson RRUS 4449 B5, B12	126	213	1,211	0.012	20	262
Raycap DC2-48-60-8-18F-02	126	44	247	0.002	4	54
Ericsson RRUS 11 B5	126	152	865	0.009	14	187
Commscope SBNH-1D6565C	126	182	1,037	0.011	17	225
CCI HPA-65R-BUU-H8	126	204	1,160	0.012	19	251
T-Arms with Mods	126	1,200	6,821	0.070	111	1,478
CCI DMP65R-BU8D	126	287	1,632	0.017	27	354
CCI OPA65R-BU8D	126	230	1,305	0.013	21	283
6' Pine Tree Branches	116.9	960	4,773	0.049	78	1,183
6' Pine Tree Branches	108.6	960	4,184	0.043	68	1,183
Kaelus BSF0020F3V1-1	114	31	146	0.002	2	38
Samsung B2/B66A RRH-BR049	114	253	1,204	0.012	20	312
Samsung B5/B13 RRH-BR04C	114	211	1,002	0.010	16	260
Raycap RCMD-6627-PF-48	114	32	152	0.002	2	39
Samsung MT6407-77A	114	245	1,164	0.012	19	302
Commscope JAHH-65B-R3B	114	364	1,728	0.018	28	448
Generic Round Sector Frame	114	2,100	9,982	0.102	163	2,587
Commscope CBC78T-DS-43-2X	110	62	277	0.003	5	77
MSFAA Collar Mount	104	0	0	0.000	0	0
Ericsson Radio 4460 B25+B66	104	327	1,319	0.014	21	403
Ericsson Radio 4480 B71+B85	104	279	1,125	0.012	18	344
Site Pro 1 VFA12-HD	104	2,070	8,350	0.085	136	2,550
Ericsson 840590966	104	304	1,227	0.012	20	375
8' Pine Tree Branches	101.9	750	2,917	0.030	48	924
8' Pine Tree Branches	96.7	750	2,656	0.027	43	924
10' Pine Tree Branches	92.1	792	2,571	0.026	42	976
Totals:		35,412	97,802	1.000	1,594	43,628

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

SEISMIC FORCES

0.9D - 1.0Ev + 1.5Eh

Seismic Overstrength (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
39	127.5	129	749	0.008	12	112
38	125.75	37	211	0.002	3	32
37	125.25	37	210	0.002	3	32
36	122.5	381	2,059	0.021	34	331
35	118.45	243	1,238	0.013	20	211
34	115.95	152	744	0.008	12	132
33	114.5	81	387	0.004	6	70
32	112	341	1,572	0.016	26	296
31	109.3	122	536	0.006	9	106
30	106.8	318	1,345	0.014	22	276
29	104.5	90	365	0.004	6	78
28	102.95	203	804	0.008	13	176
27	100.95	186	711	0.007	12	161
26	98.35	328	1,196	0.012	19	284
25	95.85	171	597	0.006	10	149
24	93.55	296	987	0.010	16	257
23	91.05	217	691	0.007	11	189
22	87.5	527	1,561	0.016	25	458
21	84.4167	125	347	0.004	6	109
20	81.9167	850	2,237	0.023	36	737
19	79.5	225	562	0.006	9	196
18	77	630	1,484	0.015	24	547
17	72.5	808	1,711	0.018	28	702
16	67.5	832	1,550	0.016	25	722
15	62.5	856	1,389	0.014	23	743
14	57.5	879	1,230	0.013	20	763
13	52.5	903	1,073	0.011	17	784
12	47.5	927	921	0.009	15	804
11	42.6667	886	727	0.007	12	769
10	40.1667	114	84	0.001	1	99
9	37.5	1,738	1,132	0.012	18	1,509
8	34.4167	412	230	0.002	4	358
7	31.9167	759	370	0.004	6	659
6	27.5	1,011	378	0.004	6	877
5	22.5	1,034	270	0.003	4	898
4	17.5	1,058	176	0.002	3	918
3	12.5	1,081	99	0.001	2	939
2	7.5	1,105	41	0.000	1	959
1	2.5	1,129	6	0.000	0	980
Top Hat	129	118	700	0.007	11	102
Ericsson RRUS 8843 B2, B66A	126	216	1,228	0.013	20	187
4' Pine Tree Branches	126	78	443	0.004	7	68
4' Pine Tree Branches	125.5	598	3,375	0.034	55	519
Ericsson RRUS 4478 B14 (16.5" Height)	126	180	1,021	0.010	17	156
Ericsson RRUS 4449 B5, B12	126	213	1,211	0.012	20	185
Raycap DC2-48-60-8-18F-02	126	44	247	0.002	4	38
Ericsson RRUS 11 B5	126	152	865	0.009	14	132
Commscope SBNH-1D6565C	126	182	1,037	0.011	17	158
CCI HPA-65R-BUU-H8	126	204	1,160	0.012	19	177
T-Arms with Mods	126	1,200	6,821	0.070	111	1,042
CCI DMP65R-BU8D	126	287	1,632	0.017	27	249
CCI OPA65R-BU8D	126	230	1,305	0.013	21	199
6' Pine Tree Branches	116.9	960	4,773	0.049	78	833
6' Pine Tree Branches	108.6	960	4,184	0.043	68	833
Kaelus BSF0020F3V1-1	114	31	146	0.002	2	27
Samsung B2/B66A RRH-BR049	114	253	1,204	0.012	20	220
Samsung B5/B13 RRH-BR04C	114	211	1,002	0.010	16	183
Raycap RCMDC-6627-PF-48	114	32	152	0.002	2	28
Samsung MT6407-77A	114	245	1,164	0.012	19	212
Commscope JAHH-65B-R3B	114	364	1,728	0.018	28	316
Generic Round Sector Frame	114	2,100	9,982	0.102	163	1,823

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

SEISMIC FORCES

0.9D - 1.0Ev + 1.5Eh

Seismic Overstrength (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
Commscope CBC78T-DS-43-2X	110	62	277	0.003	5	54
MSFAA Collar Mount	104	0	0	0.000	0	0
Ericsson Radio 4460 B25+B66	104	327	1,319	0.014	21	284
Ericsson Radio 4480 B71+B85	104	279	1,125	0.012	18	242
Site Pro 1 VFA12-HD	104	2,070	8,350	0.085	136	1,797
Ericsson 840590966	104	304	1,227	0.012	20	264
8' Pine Tree Branches	101.9	750	2,917	0.030	48	651
8' Pine Tree Branches	96.7	750	2,656	0.027	43	651
10' Pine Tree Branches	92.1	792	2,571	0.026	42	687
Totals:		35,412	97,802	1.000	1,594	30,738

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	-42.24	-1.06	0.00	-114.34	0.00	114.34	3,299.40	971.43	4,896	3,797.13	0.00	0.00	0.04
5.00	-40.88	-1.07	0.00	-109.02	0.00	109.02	3,261.75	947.06	4,654	3,659.11	0.00	-0.01	0.04
10.00	-39.54	-1.07	0.00	-103.68	0.00	103.68	3,221.78	922.69	4,417	3,520.74	0.02	-0.01	0.04
15.00	-38.24	-1.08	0.00	-98.32	0.00	98.32	3,179.49	898.32	4,187	3,382.22	0.04	-0.02	0.04
20.00	-36.97	-1.08	0.00	-92.94	0.00	92.94	3,134.88	873.95	3,963	3,243.76	0.06	-0.03	0.04
25.00	-35.72	-1.08	0.00	-87.56	0.00	87.56	3,087.95	849.58	3,745	3,105.54	0.10	-0.04	0.04
30.00	-34.79	-1.08	0.00	-82.17	0.00	82.17	3,038.69	825.21	3,533	2,967.79	0.14	-0.05	0.04
33.83	-34.28	-1.08	0.00	-78.05	0.00	78.05	2,999.35	806.53	3,375	2,862.62	0.18	-0.05	0.04
35.00	-32.14	-1.07	0.00	-76.79	0.00	76.79	2,987.11	800.84	3,328	2,830.70	0.20	-0.06	0.04
40.00	-31.99	-1.07	0.00	-71.46	0.00	71.46	2,933.21	776.47	3,128	2,694.46	0.26	-0.06	0.04
40.33	-30.90	-1.06	0.00	-71.11	0.00	71.11	2,953.95	785.73	3,203	2,746.09	0.26	-0.06	0.04
45.00	-29.76	-1.05	0.00	-66.16	0.00	66.16	2,902.37	762.98	3,021	2,619.49	0.33	-0.07	0.04
50.00	-28.65	-1.04	0.00	-60.90	0.00	60.90	2,844.86	738.61	2,831	2,485.00	0.41	-0.08	0.04
55.00	-27.56	-1.03	0.00	-55.68	0.00	55.68	2,785.03	714.24	2,647	2,351.89	0.50	-0.09	0.03
60.00	-26.51	-1.02	0.00	-50.51	0.00	50.51	2,722.88	689.87	2,470	2,220.35	0.60	-0.10	0.03
65.00	-25.49	-1.01	0.00	-45.41	0.00	45.41	2,658.40	665.50	2,298	2,090.60	0.71	-0.11	0.03
70.00	-24.49	-0.99	0.00	-40.38	0.00	40.38	2,591.60	641.14	2,133	1,962.83	0.83	-0.12	0.03
75.00	-23.71	-0.97	0.00	-35.44	0.00	35.44	2,522.48	616.77	1,974	1,837.26	0.95	-0.12	0.03
79.00	-23.44	-0.97	0.00	-31.54	0.00	31.54	2,465.51	597.27	1,851	1,738.50	1.06	-0.13	0.03
80.00	-22.39	-0.94	0.00	-30.57	0.00	30.57	2,451.04	592.40	1,821	1,714.07	1.09	-0.13	0.03
83.83	-22.23	-0.94	0.00	-26.95	0.00	26.95	1,187.39	349.45	1,056	819.28	1.20	-0.14	0.05
85.00	-21.58	-0.93	0.00	-25.85	0.00	25.85	1,182.21	346.04	1,035	807.70	1.23	-0.14	0.05
90.00	-21.32	-0.92	0.00	-21.22	0.00	21.22	1,158.57	331.42	950	757.92	1.39	-0.15	0.05
92.10	-19.98	-0.88	0.00	-19.29	0.00	19.29	1,147.95	325.28	915	736.97	1.46	-0.16	0.04
95.00	-19.77	-0.88	0.00	-16.73	0.00	16.73	1,132.61	316.79	868	708.05	1.56	-0.17	0.04
96.70	-18.44	-0.83	0.00	-15.24	0.00	15.24	1,123.26	311.82	841	691.12	1.62	-0.17	0.04
100.00	-18.21	-0.82	0.00	-12.50	0.00	12.50	1,104.33	302.17	790	658.31	1.74	-0.18	0.04
101.90	-17.04	-0.78	0.00	-10.93	0.00	10.93	1,092.98	296.62	761	639.49	1.81	-0.18	0.03
104.00	-13.25	-0.64	0.00	-9.29	0.00	9.29	1,080.04	290.48	730	618.75	1.89	-0.18	0.03
105.00	-12.86	-0.62	0.00	-8.65	0.00	8.65	1,073.73	287.55	715	608.90	1.92	-0.18	0.03
108.60	-11.53	-0.57	0.00	-6.42	0.00	6.42	1,050.26	277.02	664	573.64	2.07	-0.19	0.02
110.00	-11.03	-0.54	0.00	-5.63	0.00	5.63	1,040.80	272.93	644	560.01	2.12	-0.19	0.02
114.00	-6.95	-0.36	0.00	-3.45	0.00	3.45	1,012.79	261.23	590	521.42	2.28	-0.19	0.01
115.00	-6.76	-0.35	0.00	-3.09	0.00	3.09	1,005.56	258.31	577	511.86	2.32	-0.20	0.01
116.90	-5.28	-0.28	0.00	-2.42	0.00	2.42	991.55	252.75	552	493.79	2.40	-0.20	0.01
120.00	-4.81	-0.26	0.00	-1.55	0.00	1.55	967.99	243.69	514	464.63	2.53	-0.20	0.01
125.00	-4.76	-0.26	0.00	-0.26	0.00	0.26	928.10	229.06	454	418.54	2.74	-0.20	0.01
125.50	-3.98	-0.21	0.00	-0.13	0.00	0.13	923.98	227.60	448	414.00	2.76	-0.20	0.01
126.00	-0.15	-0.01	0.00	-0.02	0.00	0.02	919.84	226.14	442	409.48	2.78	-0.20	0.00
129.00	0.00	-0.01	0.00	0.00	0.00	0.00	894.51	217.37	409	382.62	2.91	-0.20	0.00

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

CALCULATED FORCES

ASSET: 283424, WATERTOWN CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-I
PROJECT: 14932898_C3_05

CALCULATED FORCES

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 (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-29.76	-1.06	0.00	-112.95	0.00	112.95	3,299.40	971.43	4,896	3,797.13	0.00	0.00	0.04
5.00	-28.80	-1.07	0.00	-107.63	0.00	107.63	3,261.75	947.06	4,654	3,659.11	0.00	-0.01	0.04
10.00	-27.86	-1.07	0.00	-102.30	0.00	102.30	3,221.78	922.69	4,417	3,520.74	0.02	-0.01	0.04
15.00	-26.94	-1.07	0.00	-96.96	0.00	96.96	3,179.49	898.32	4,187	3,382.22	0.03	-0.02	0.04
20.00	-26.04	-1.07	0.00	-91.61	0.00	91.61	3,134.88	873.95	3,963	3,243.76	0.06	-0.03	0.04
25.00	-25.17	-1.07	0.00	-86.26	0.00	86.26	3,087.95	849.58	3,745	3,105.54	0.10	-0.04	0.04
30.00	-24.51	-1.07	0.00	-80.92	0.00	80.92	3,038.69	825.21	3,533	2,967.79	0.14	-0.05	0.04
33.83	-24.15	-1.07	0.00	-76.82	0.00	76.82	2,999.35	806.53	3,375	2,862.62	0.18	-0.05	0.04
35.00	-22.64	-1.05	0.00	-75.58	0.00	75.58	2,987.11	800.84	3,328	2,830.70	0.19	-0.05	0.03
40.00	-22.54	-1.06	0.00	-70.31	0.00	70.31	2,933.21	776.47	3,128	2,694.46	0.26	-0.06	0.03
40.33	-21.77	-1.05	0.00	-69.95	0.00	69.95	2,953.95	785.73	3,203	2,746.09	0.26	-0.06	0.03
45.00	-20.97	-1.04	0.00	-65.06	0.00	65.06	2,902.37	762.98	3,021	2,619.49	0.33	-0.07	0.03
50.00	-20.18	-1.03	0.00	-59.86	0.00	59.86	2,844.86	738.61	2,831	2,485.00	0.41	-0.08	0.03
55.00	-19.42	-1.02	0.00	-54.70	0.00	54.70	2,785.03	714.24	2,647	2,351.89	0.50	-0.09	0.03
60.00	-18.68	-1.01	0.00	-49.60	0.00	49.60	2,722.88	689.87	2,470	2,220.35	0.59	-0.10	0.03
65.00	-17.95	-0.99	0.00	-44.57	0.00	44.57	2,658.40	665.50	2,298	2,090.60	0.70	-0.11	0.03
70.00	-17.25	-0.97	0.00	-39.62	0.00	39.62	2,591.60	641.14	2,133	1,962.83	0.82	-0.11	0.03
75.00	-16.71	-0.96	0.00	-34.76	0.00	34.76	2,522.48	616.77	1,974	1,837.26	0.94	-0.12	0.03
79.00	-16.51	-0.95	0.00	-30.92	0.00	30.92	2,465.51	597.27	1,851	1,738.50	1.05	-0.13	0.02
80.00	-15.77	-0.93	0.00	-29.97	0.00	29.97	2,451.04	592.40	1,821	1,714.07	1.07	-0.13	0.02
83.83	-15.66	-0.93	0.00	-26.41	0.00	26.41	1,187.39	349.45	1,056	819.28	1.18	-0.14	0.05
85.00	-15.21	-0.91	0.00	-25.33	0.00	25.33	1,182.21	346.04	1,035	807.70	1.22	-0.14	0.04
90.00	-15.02	-0.90	0.00	-20.79	0.00	20.79	1,158.57	331.42	950	757.92	1.37	-0.15	0.04
92.10	-14.07	-0.86	0.00	-18.89	0.00	18.89	1,147.95	325.28	915	736.97	1.44	-0.16	0.04
95.00	-13.93	-0.86	0.00	-16.39	0.00	16.39	1,132.61	316.79	868	708.05	1.53	-0.16	0.04
96.70	-12.99	-0.81	0.00	-14.93	0.00	14.93	1,123.26	311.82	841	691.12	1.59	-0.17	0.03
100.00	-12.83	-0.81	0.00	-12.24	0.00	12.24	1,104.33	302.17	790	658.31	1.71	-0.17	0.03
101.90	-12.00	-0.77	0.00	-10.71	0.00	10.71	1,092.98	296.62	761	639.49	1.78	-0.18	0.03
104.00	-9.34	-0.62	0.00	-9.10	0.00	9.10	1,080.04	290.48	730	618.75	1.86	-0.18	0.02
105.00	-9.06	-0.61	0.00	-8.48	0.00	8.48	1,073.73	287.55	715	608.90	1.89	-0.18	0.02
108.60	-8.12	-0.55	0.00	-6.29	0.00	6.29	1,050.26	277.02	664	573.64	2.03	-0.19	0.02
110.00	-7.77	-0.53	0.00	-5.51	0.00	5.51	1,040.80	272.93	644	560.01	2.09	-0.19	0.02
114.00	-4.90	-0.35	0.00	-3.38	0.00	3.38	1,012.79	261.23	590	521.42	2.25	-0.19	0.01
115.00	-4.76	-0.34	0.00	-3.03	0.00	3.03	1,005.56	258.31	577	511.86	2.29	-0.19	0.01
116.90	-3.72	-0.28	0.00	-2.37	0.00	2.37	991.55	252.75	552	493.79	2.36	-0.19	0.01
120.00	-3.39	-0.25	0.00	-1.52	0.00	1.52	967.99	243.69	514	464.63	2.49	-0.20	0.01
125.00	-3.36	-0.25	0.00	-0.25	0.00	0.25	928.10	229.06	454	418.54	2.70	-0.20	0.00
125.50	-2.80	-0.21	0.00	-0.13	0.00	0.13	923.98	227.60	448	414.00	2.72	-0.20	0.00
126.00	-0.10	-0.01	0.00	-0.02	0.00	0.02	919.84	226.14	442	409.48	2.74	-0.20	0.00
129.00	0.00	-0.01	0.00	0.00	0.00	0.00	894.51	217.37	409	382.62	2.86	-0.20	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	26.67	0.00	42.45	0.00	0.00	2702.59	83.83	0.8
0.9D + 1.0W	26.65	0.00	31.83	0.00	0.00	2674.50	83.83	0.78
1.2D + 1.0Di + 1.0Wi	13.54	0.00	64.97	0.00	0.00	1389.37	83.83	0.43
1.2D + 1.0Ev + 1.0Eh	1.06	0.00	42.24	0.00	0.00	114.34	83.83	0.05
0.9D - 1.0Ev + 1.0Eh	1.06	0.00	29.76	0.00	0.00	112.95	83.83	0.05
1.0D + 1.0W	6.83	0.00	35.41	0.00	0.00	688.60	83.83	0.21

ANALYSIS SUMMARY - OVERSTRENGTH LOAD CASES

Load Case	Base Reactions					
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0Ev + 1.5Eh	1.60	0.00	42.24	0.00	0.00	171.67
0.9D - 1.0Ev + 1.5Eh	1.60	0.00	29.76	0.00	0.00	169.57

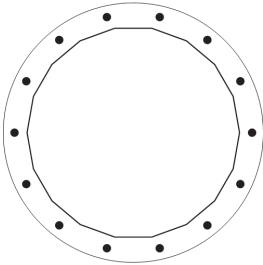
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
2702.59	42.45	26.67

PLATE PARAMETERS (ID# 32704)

Width:	69.5	in
Shape:	Round	
Thickness:	2.5	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Rod Detail Type:	d	
Clear Distance	2.625	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	0	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#33562]	Radial	14	2.25	63.5	A615-75	75	100	-	-

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	56.12"ø x 0.3125" (18 Sides)	54.5112	-	-	21223.49	-
Bolt Group	Original (14) 2.25"ø	3.9761	3.2477	0.8393	21073.31	4.5

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	56.12"ø x 0.3125" (18 Sides)	2702.6	42.45	26.67	1.000
Bolt Group	Original (14) 2.25"ø	2702.6	-	26.67	1.000

BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES					PLATE PROPERTIES		
Flat-to-Flat Diameter:	56.24	in	Flat Width:	9.918	in	Neutral Axis:	0°
Point-to-Point Diameter:	57.11	in	Flat Radians:	0.349	rad	Bend Line Limits:	1.030 to 2.112 rad
Orientation Offset:	-	°					
Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment M _u (k-in)	Moment Capacity ΦM _n (k-in)	Flexure Result M _u /ΦM _n	
Flats	36.205	0.00	56.570	469.7	2545.6	18.5%	✓
Corners	34.820	0.00	54.406	338.4	2448.3	13.8%	✓
Circumferential	45.969	0.00	71.826	569.4	3232.2	17.6%	✓

PLASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	14	2.25	116.0	3.0	243.6	47.6% ✓

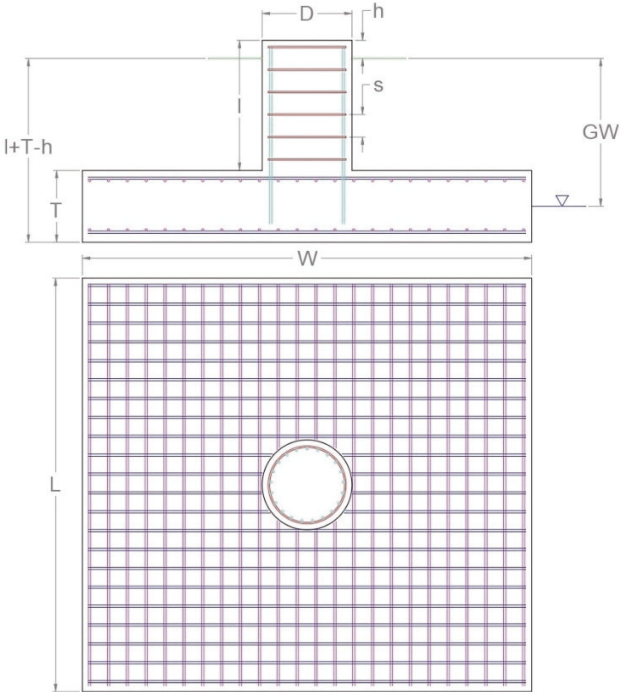
MONOLITHIC MAT & PIER FOUNDATION ANALYSIS

APPLIED GLOBAL REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
2,702.59	42.45	26.67

FOUNDATION PARAMETERS

Mat Length:	L	21	ft
Mat Width:	W	21	ft
Mat Thickness:	T	3	ft
Base Depth:	L+T-h	7	ft
Pier Shape:		Round	
Pier Diameter:	D	7	ft
Pier Height above Grade:	h	0.5	ft
Concrete Compressive Strength:		4,000	psi
Mat Top Rebar:		(21) #6 bars [60 ksi]	
Mat Bottom Rebar:		(21) #6 bars [60 ksi]	
Pier Vertical Rebar:		(24) #11 bars [60 ksi]	
Pier Rebar Ties:	s	#5 bars @ 6.0" 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:	24,000	psf
Bearing Pressure Type:	Net	
Coefficient of Shear Friction:	0.7	

SOIL STRENGTH ANALYSIS

Soil Strength Reduction Factor, Φ_s	Uplift Strength Reduction Factor, Φ_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, $M_{u,Design} / \Phi_m M_n$	
2,902.62	4,596.03	63.2%	✓

SOIL BEARING ANALYSIS

Net Bearing Pressure, $P_{u,Net}$ (psf)	Nominal Bearing Capacity, $\Phi_b P_n$ (psf)	Bearing Pressure Controlling Load Direction	Soil Bearing Usage, $P_{u,net} / \Phi_b P_n$	
2,687.00	18,630.00	Diagonal to Pad Edge	14.4%	✓

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, $V_u / \Phi_s V_n$	
26.67	317.11	660.0	41.58	269.01	10.0%	✓

MAT REINFORCING STEEL STRENGTH ANALYSIS

Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, Φ_b	Strength Shear Reduction Factor, Φ_v	Strength Compression Reduction Factor, Φ_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, $V_u / \Phi_c V_n$	
138.59	636.02	Diagonal to Pad Edge	21.8%	✓

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, $v_u / \Phi_c V_n$	
32.7	189.7	17.2%	✓

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, $0.6 M_{ut} / \Phi M_{sc,f}$	
16.00	0.67	0.00	12,632.7	0.0%	✓

MAT REINFORCING FLEXURE ANALYSIS - UPPER STEEL

Factored Moment, M_u (k-ft)	Nominal Flexural Capacity, ΦM_n (k-ft)	Flexural Steel Controlling Load Direction	Mat Upper Rebar Flexure Usage, $M_u / \Phi M_n$	
478.48	1,329.52	Parallel to Pad Edge	36.0%	✓

MAT REINFORCING FLEXURE ANALYSIS - LOWER STEEL

Factored Moment, M_u (k-ft)	Nominal Flexural Capacity, ΦM_n (k-ft)	Flexural Steel Controlling Load Direction	Mat Lower Rebar Flexure Usage, $M_u / \Phi M_n$	
1,033.00	1,329.52	Parallel to Pad Edge	77.7%	✓

PIER REINFORCING STEEL STRENGTH ANALYSIS

Rebar Cage Diameter (in)	Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, Φ_b	Strength Shear Reduction Factor, Φ_v	Strength Compression Reduction Factor, Φ_c
75.38	29,000	0.9	0.75	0.65

PIER REINFORCING MOMENT ANALYSIS

Design Moment, M_u (k-ft)	Nominal Moment Capacity, $\Phi_b M_n$ (k-ft)	Bending Reinforcement Ratio	Pier Rebar Flexure Usage, $M_u / \Phi_b M_n$	
2,822.60	6,218.29	0.007	45.4%	✓

PIER REINFORCING COMPRESSION ANALYSIS

Design Compression, P_u (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$	
42.45	9,780.33	0.4%	✓

PIER REINFORCING SHEAR ANALYSIS

Design Shear, V_u (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$	
26.67	840.23	3.2%	✓

Exhibit E

Mount Analysis



Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C.
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
sean.osullivan@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10269443
Colliers Engineering & Design Project #: 24777549

December 17, 2024

Site Information

Site ID: 5000055102-VZW / WATERTOWN NE CT -
American Tower
Site Name: WATERTOWN NE CT - American Tower
Carrier Name: Verizon Wireless
Address: 655 Bassett Rd
Watertown, Connecticut 06795
Litchfield County
Latitude: 41.65708333°
Longitude: -73.13625000°

Structure Information

Tower Type: Monopole
Mount Type: 12.50-Ft T-Arm

FUZE ID # 17390722

Analysis Results

T-Arm: 73.6% Pass*

***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

Report Prepared By: Selene Chen



Digitally signed by Grant Walters
Date: 2024.12.24 13:46:51-06'00'

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 3122063, dated November 7, 2024</i>
<i>Post-Modification Inspection Report</i>	<i>Maser Consulting Connecticut, Project #: 21777471A, dated June 30, 2022</i>

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} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.970
Seismic Parameters:	S_s : 0.189 g S_1 : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V22)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
111.50	114.00	6	Commscope	JAHH-65B-R3B	Retained
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Commscope	CBC78T-DS-43-2X	
		1	Raycap	RVZDC-6627-PF-48	
		2	KAelus	BSF0020F3V1-1	Added

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:
- Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325

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
<i>Standoff Arm</i>	<i>34.0%</i>	<i>Pass</i>
<i>Horizontal</i>	<i>67.9%</i>	<i>Pass</i>
<i>Antenna Pipe</i>	<i>73.6%</i>	<i>Pass</i>
<i>Support Rail</i>	<i>34.6%</i>	<i>Pass</i>
<i>Kicker</i>	<i>10.5%</i>	<i>Pass</i>
<i>Tieback</i>	<i>19.2%</i>	<i>Pass</i>
<i>Connection Check</i>	<i>26.2%</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	73.6%
---	--------------

Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector A Standoff	111.5	N1	3124	4375	2.359	3.063	1933	2662	1.328	0.775
Sector B Standoff	111.5	N97	2729	3677	2.504	3.224	1657	2271	1.080	0.818
Sector C Standoff	111.5	N49	2829	3844	2.039	2.652	1728	2339	1.387	0.683

Notes:

- Axial loads act along the axis of the tower
- Lateral reactions act perpendicular to the tower
- Moment loads introduce bending moment to the tower
- Torsion loads introduce twisting moment to the tower
- Batch solutions by individual load cases are included at the end of this document

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	21.6	20.4	39.9	38.6
0.5	28.3	28.8	55.3	53.6
1	34.5	35.1	69.4	67.3

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 mounts are **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted 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.

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

Attachments:

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

MDG #: 5000055102

SMART Project #: 10269443

Fuze Project ID: 17390722

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.

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

Contractor to provide measurement from top of the highest equipment/steel to the bottom of the lowest equipment/steel by documenting it using the most appropriate illustration below along with supporting photos:

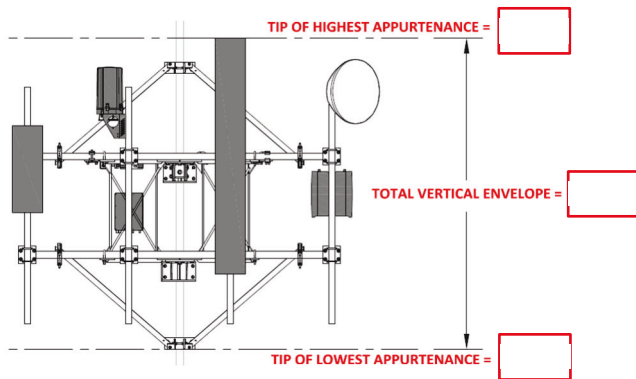


Illustration #1

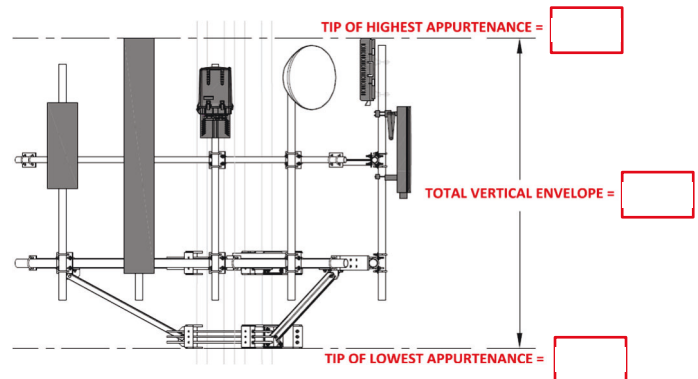


Illustration #2

Certifying Individual:

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

Sector: **A**

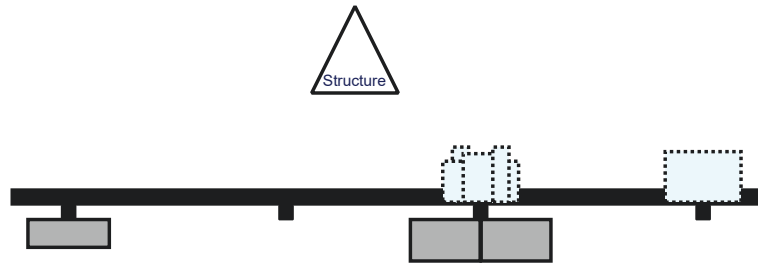
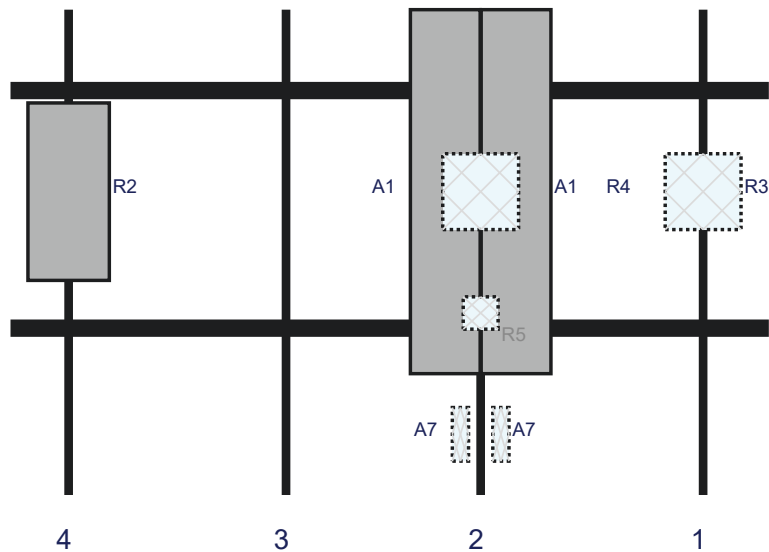
12/17/2024

Structure Type: Stealth

10269443

Mount Elev: 111.50

Page: 1

Plan View**Front View - Looking at Structure**

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	137	1	a	Behind	36	0	Retained	06/21/2022
A1	JAHH-65B-R3B	72	13.8	93	2	a	Front	36	7	Retained	06/21/2022
A1	JAHH-65B-R3B	72	13.8	93	2	b	Front	36	-7	Retained	06/21/2022
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	93	2	a	Behind	36	0	Retained	06/21/2022
R5	CBC78T-DS-43-2X	6.4	6.9	93	2	a	Behind	60	0	Retained	06/21/2022
A7	BSF0020F3V1-1	10.6	3.2	93	2	a	Behind	84	4	Added	
A7	BSF0020F3V1-1	10.6	3.2	93	2	b	Behind	84	-4	Added	
R2	MT6407-77A	35.1	16.1	11.5	4	a	Front	36	0	Retained	06/21/2022
OVP	RVZDC-6627-PF-48	29.5	16.5		Member					Retained	06/21/2022

Sector: **B**

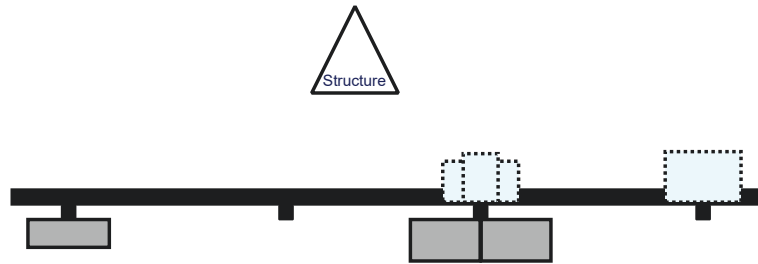
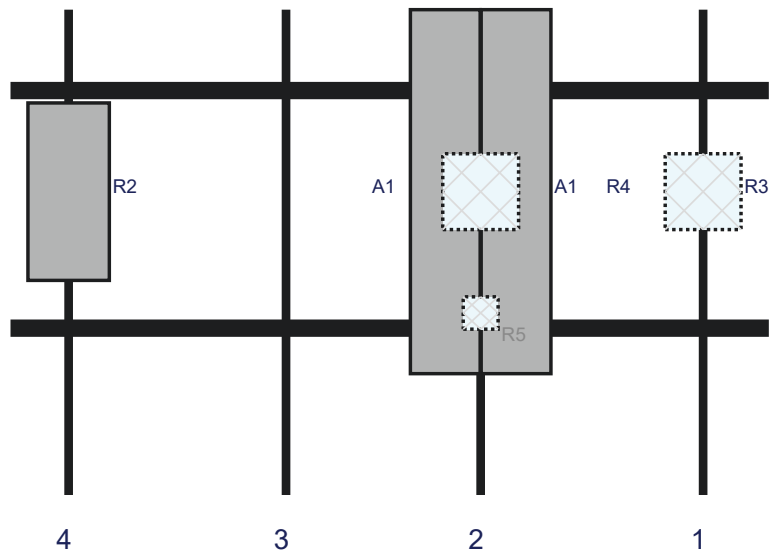
12/17/2024

Structure Type: Stealth

10269443

Mount Elev: 111.50

Page: 2

Plan View**Front View - Looking at Structure**

Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	137	1	a	Behind	36	0	Retained	06/21/2022
A1	JAHH-65B-R3B	72	13.8	93	2	a	Front	36	7	Retained	06/21/2022
A1	JAHH-65B-R3B	72	13.8	93	2	b	Front	36	-7	Retained	06/21/2022
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	93	2	a	Behind	36	0	Retained	06/21/2022
R5	CBC78T-DS-43-2X	6.4	6.9	93	2	a	Behind	60	0	Retained	06/21/2022
R2	MT6407-77A	35.1	16.1	11.5	4	a	Front	36	0	Retained	06/21/2022

Sector: C

12/17/2024

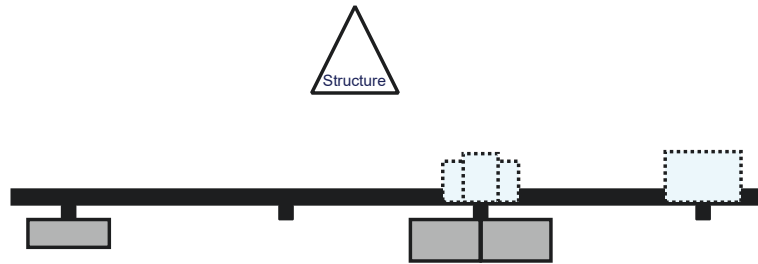
Structure Type: Stealth

10269443

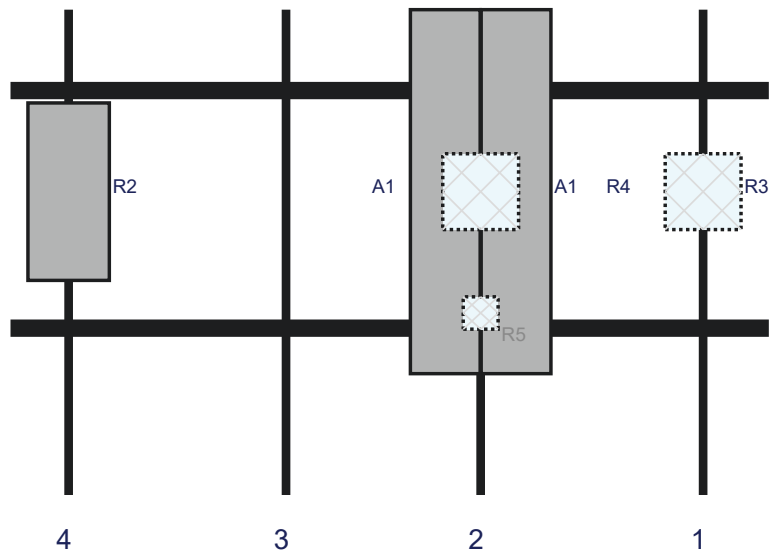
Mount Elev: 111.50

Page: 3

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R3	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	137	1	a	Behind	36	0	Retained	06/21/2022
A1	JAHH-65B-R3B	72	13.8	93	2	a	Front	36	7	Retained	06/21/2022
A1	JAHH-65B-R3B	72	13.8	93	2	b	Front	36	-7	Retained	06/21/2022
R4	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	93	2	a	Behind	36	0	Retained	06/21/2022
R5	CBC78T-DS-43-2X	6.4	6.9	93	2	a	Behind	60	0	Retained	06/21/2022
R2	MT6407-77A	35.1	16.1	11.5	4	a	Front	36	0	Retained	06/21/2022





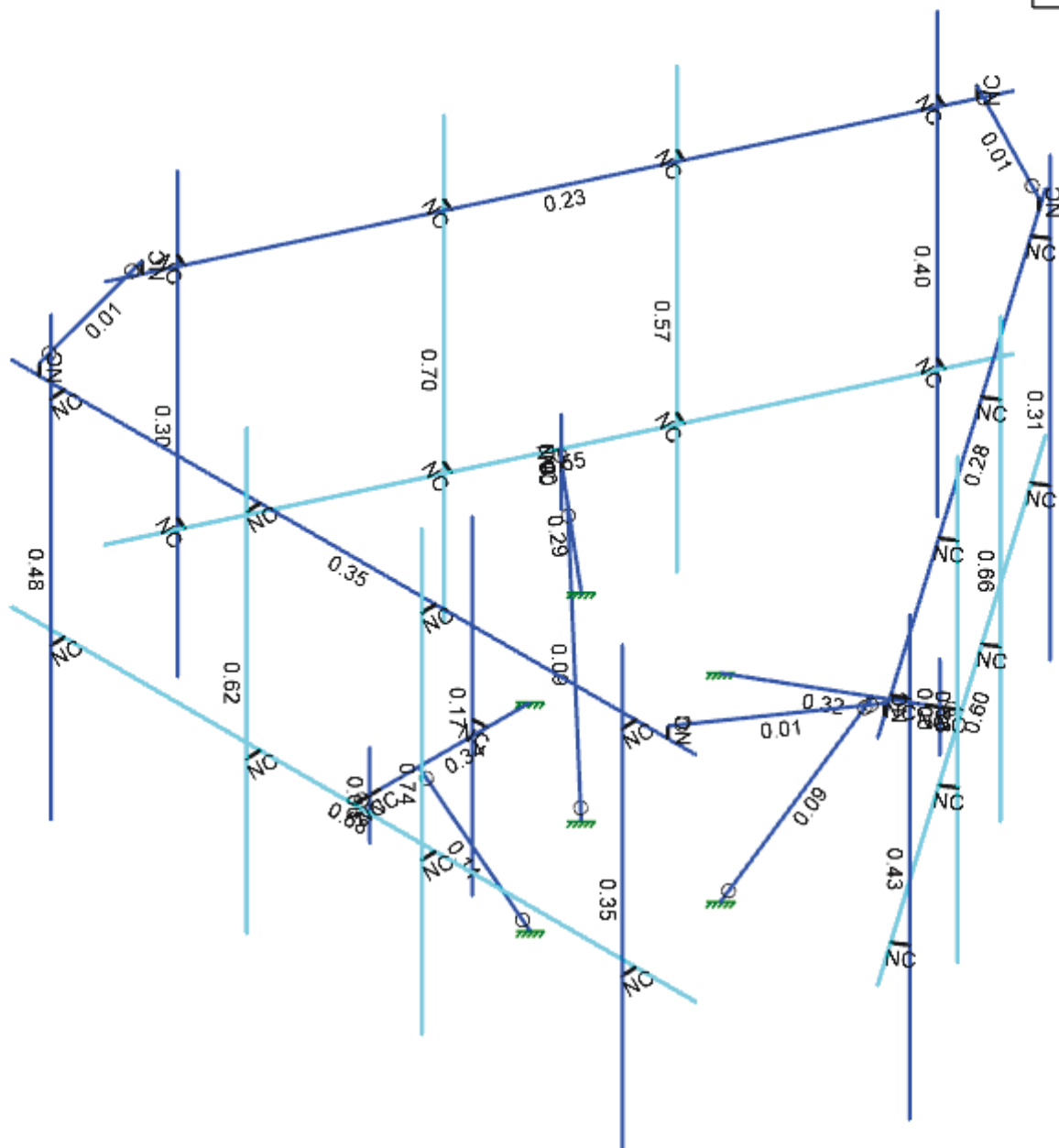
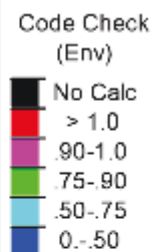
Envelope Only Solution



SK-1

Dec 17, 2024 at 03:36 PM

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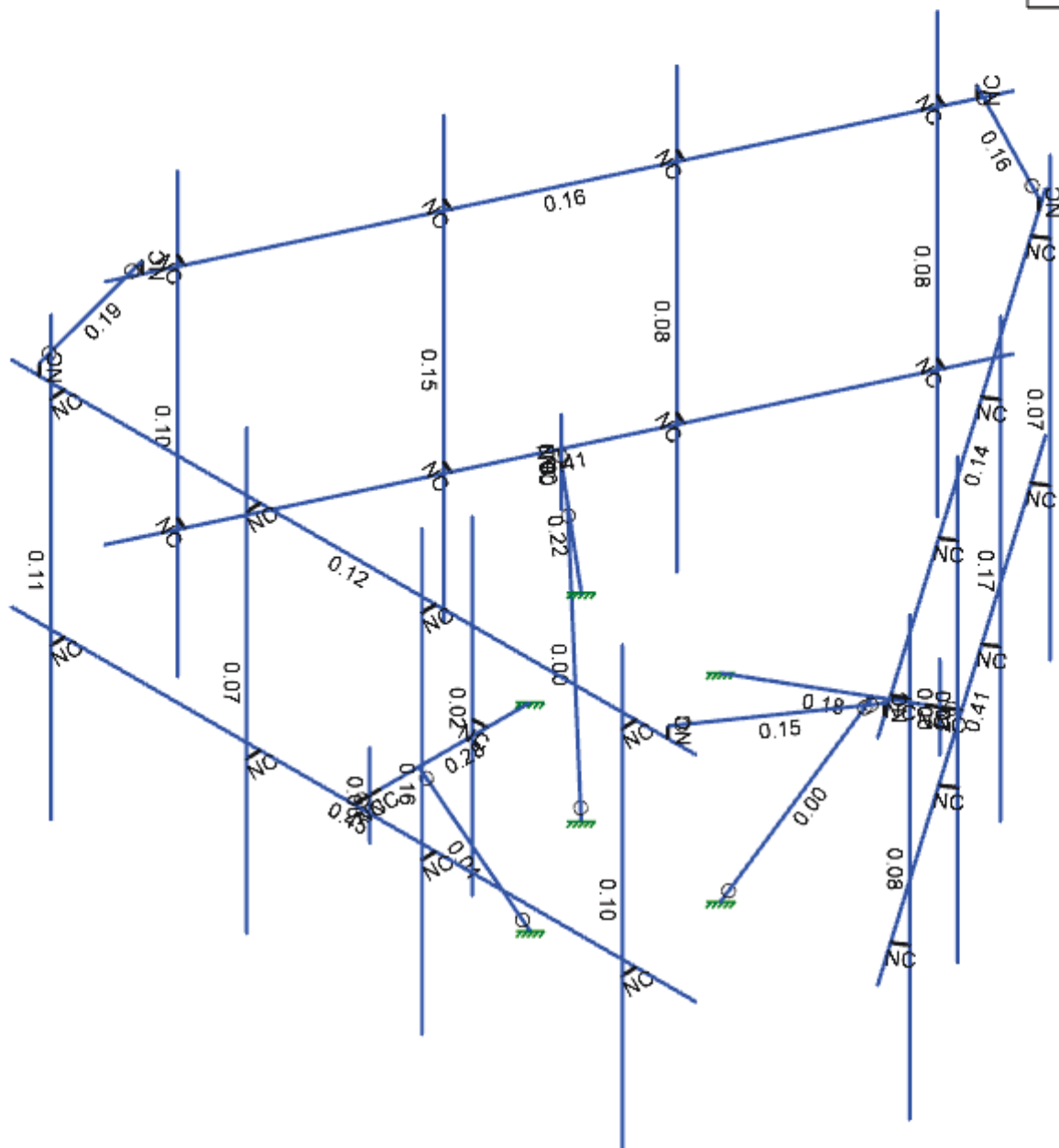
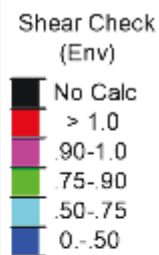
Member Code Checks Displayed (Enveloped)
Envelope Only Solution



SK-2

Dec 17, 2024 at 03:37 PM

5000055102-VZW_MT_LO_...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed
1	Antenna D	None				96	
2	Antenna Di	None				96	
3	Antenna Wo (0 Deg)	None				96	
4	Antenna Wo (30 Deg)	None				96	
5	Antenna Wo (60 Deg)	None				96	
6	Antenna Wo (90 Deg)	None				96	
7	Antenna Wo (120 Deg)	None				96	
8	Antenna Wo (150 Deg)	None				96	
9	Antenna Wo (180 Deg)	None				96	
10	Antenna Wo (210 Deg)	None				96	
11	Antenna Wo (240 Deg)	None				96	
12	Antenna Wo (270 Deg)	None				96	
13	Antenna Wo (300 Deg)	None				96	
14	Antenna Wo (330 Deg)	None				96	
15	Antenna Wi (0 Deg)	None				96	
16	Antenna Wi (30 Deg)	None				96	
17	Antenna Wi (60 Deg)	None				96	
18	Antenna Wi (90 Deg)	None				96	
19	Antenna Wi (120 Deg)	None				96	
20	Antenna Wi (150 Deg)	None				96	
21	Antenna Wi (180 Deg)	None				96	
22	Antenna Wi (210 Deg)	None				96	
23	Antenna Wi (240 Deg)	None				96	
24	Antenna Wi (270 Deg)	None				96	
25	Antenna Wi (300 Deg)	None				96	
26	Antenna Wi (330 Deg)	None				96	
27	Antenna Wm (0 Deg)	None				96	
28	Antenna Wm (30 Deg)	None				96	
29	Antenna Wm (60 Deg)	None				96	
30	Antenna Wm (90 Deg)	None				96	
31	Antenna Wm (120 Deg)	None				96	
32	Antenna Wm (150 Deg)	None				96	
33	Antenna Wm (180 Deg)	None				96	
34	Antenna Wm (210 Deg)	None				96	
35	Antenna Wm (240 Deg)	None				96	
36	Antenna Wm (270 Deg)	None				96	
37	Antenna Wm (300 Deg)	None				96	
38	Antenna Wm (330 Deg)	None				96	
39	Structure D	None		-1			
40	Structure Di	None					31
41	Structure Wo (0 Deg)	None					62
42	Structure Wo (30 Deg)	None					62
43	Structure Wo (60 Deg)	None					62
44	Structure Wo (90 Deg)	None					62
45	Structure Wo (120 Deg)	None					62
46	Structure Wo (150 Deg)	None					62
47	Structure Wo (180 Deg)	None					62
48	Structure Wo (210 Deg)	None					62
49	Structure Wo (240 Deg)	None					62
50	Structure Wo (270 Deg)	None					62
51	Structure Wo (300 Deg)	None					62
52	Structure Wo (330 Deg)	None					62
53	Structure Wi (0 Deg)	None					62
54	Structure Wi (30 Deg)	None					62
55	Structure Wi (60 Deg)	None					62

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed
56	Structure Wi (90 Deg)	None					62
57	Structure Wi (120 Deg)	None					62
58	Structure Wi (150 Deg)	None					62
59	Structure Wi (180 Deg)	None					62
60	Structure Wi (210 Deg)	None					62
61	Structure Wi (240 Deg)	None					62
62	Structure Wi (270 Deg)	None					62
63	Structure Wi (300 Deg)	None					62
64	Structure Wi (330 Deg)	None					62
65	Structure Wm (0 Deg)	None					62
66	Structure Wm (30 Deg)	None					62
67	Structure Wm (60 Deg)	None					62
68	Structure Wm (90 Deg)	None					62
69	Structure Wm (120 Deg)	None					62
70	Structure Wm (150 Deg)	None					62
71	Structure Wm (180 Deg)	None					62
72	Structure Wm (210 Deg)	None					62
73	Structure Wm (240 Deg)	None					62
74	Structure Wm (270 Deg)	None					62
75	Structure Wm (300 Deg)	None					62
76	Structure Wm (330 Deg)	None					62
77	Lm1	None				1	
78	Lm2	None				1	
79	Lv1	None				1	
80	Lv2	None				1	
81	Antenna Ev	None				96	
82	Antenna Eh (0 Deg)	None				64	
83	Antenna Eh (90 Deg)	None				64	
84	Structure Ev	ELY		-0.04			
85	Structure Eh (0 Deg)	ELZ			-0.101		
86	Structure Eh (90 Deg)	ELX	0.101				

Load Combinations

	Description	Solve P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
1	1.2D+1.0Wo (0 Deg)	Yes	Y	1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (30 Deg)	Yes	Y	1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (60 Deg)	Yes	Y	1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (90 Deg)	Yes	Y	1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (120 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (330 Deg)	Yes	Y	1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + 1.0Wi (60 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + 1.0Wi (90 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0Di + 1.0Wi (120 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1.0Wi (150 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1				
19	1.2D + 1.0Di + 1.0Wi (180 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1				
20	1.2D + 1.0Di + 1.0Wi (210 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1				
21	1.2D + 1.0Di + 1.0Wi (240 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1				

Load Combinations (Continued)

Description	Solve	P-Delta	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor
22 1.2D + 1.0Di + 1.0Wi (270 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1				
23 1.2D + 1.0Di + 1.0Wi (300 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1				
24 1.2D + 1.0Di + 1.0Wi (330 Deg)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1				
25 1.2D + 1.5Lm1 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1						
26 1.2D + 1.5Lm1 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1						
27 1.2D + 1.5Lm1 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1						
28 1.2D + 1.5Lm1 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1						
29 1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1						
30 1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1						
31 1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1						
32 1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1						
33 1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1						
34 1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1						
35 1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1						
36 1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1						
37 1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1						
38 1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1						
39 1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1						
40 1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1						
41 1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1						
42 1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1						
43 1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1						
44 1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1						
45 1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1						
46 1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1						
47 1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1						
48 1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1						
49 1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5										
50 1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5										
51 1.4D	Yes	Y	1	1.4	39	1.4												
52 1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	1	83		ELZ	1	ELX	
53 1.2D + 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
54 1.2D + 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
55 1.2D + 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56 1.2D + 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
57 1.2D + 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
58 1.2D + 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59 1.2D + 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
60 1.2D + 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
61 1.2D + 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62 1.2D + 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
63 1.2D + 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5
64 0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65 0.9D - 1.0Ev + 1.0Eh (30 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	0.5	ELZ	0.866	ELX	0.5
66 0.9D - 1.0Ev + 1.0Eh (60 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	0.866	ELZ	0.5	ELX	0.866
67 0.9D - 1.0Ev + 1.0Eh (90 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68 0.9D - 1.0Ev + 1.0Eh (120 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	0.866	ELZ	-0.5	ELX	0.866
69 0.9D - 1.0Ev + 1.0Eh (150 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	0.5	ELZ	-0.866	ELX	0.5
70 0.9D - 1.0Ev + 1.0Eh (180 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71 0.9D - 1.0Ev + 1.0Eh (210 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.866	83	-0.5	ELZ	-0.866	ELX	-0.5
72 0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
73 0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74 0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
75 0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	0.627	0.627	1.25
2	Support Rail	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	0.627	0.627	1.25
3	Tiebacks	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	0.627	0.627	1.25
4	Standoff Arm	HSS4X4X4	Beam	Tube	A500 Gr.46	Typical	3.37	7.8	7.8	12.8
5	Standoff Pipe	PIPE 4.0	Column	Pipe	A53 Gr. B	Typical	2.96	6.82	6.82	13.6
6	Horizontal	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
7	Kickers	LL2.5X2.5X3X3	Column	Double Angle (No Gap)	A36 Gr.36	Typical	1.8	2.46	1.07	0.023

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁶ °F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
3	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	0.3	0.65	0.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	0.3	0.65	0.49	46	1.4	58	1.3
6	A53 Gr. B	29000	11154	0.3	0.65	0.49	35	1.5	60	1.2
7	A500 Gr 50	29000	11154	0.3	0.65	0.49	50	1.5	58	1.2

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N1	N40A		Standoff Arm	Beam	Tube	A500 Gr.46	Typical
2	M2	N4	N3		Standoff Pipe	Column	Pipe	A53 Gr. B	Typical
3	M4	N7	N6		Horizontal	Column	Pipe	A53 Gr. B	Typical
4	MP1A	N13	N14		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
5	M8	N11	N12		RIGID	None	None	RIGID	Typical
6	M10A	N2	N5		RIGID	None	None	RIGID	Typical
7	MP2A	N15	N16		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
8	M8A	N13A	N14A		RIGID	None	None	RIGID	Typical
9	MP3A	N19	N20		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
10	M10	N17	N18		RIGID	None	None	RIGID	Typical
11	MP4A	N23	N24		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
12	M12	N21A	N22		RIGID	None	None	RIGID	Typical
13	M13	N27	N26		Support Rail	Column	Pipe	A53 Gr. B	Typical
14	M14	N28	N29		RIGID	None	None	RIGID	Typical
15	M15	N30	N31		RIGID	None	None	RIGID	Typical
16	M16	N32	N33		RIGID	None	None	RIGID	Typical
17	M17	N34	N35		RIGID	None	None	RIGID	Typical
18	M18	N36	N38		RIGID	None	None	RIGID	Typical
19	M19	N39	N40		RIGID	None	None	RIGID	Typical
20	M20	N2	N40A		RIGID	None	None	RIGID	Typical
21	M21	N43	N44		RIGID	None	None	RIGID	Typical
22	OVP	N45	N46		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
23	M23	N48	N47		Kickers	Column	Double Angle (No Gap)	A36 Gr.36	Typical
24	M24	N49	N88		Standoff Arm	Beam	Tube	A500 Gr.46	Typical
25	M25	N52	N51	240	Standoff Pipe	Column	Pipe	A53 Gr. B	Typical
26	M26	N55	N54		Horizontal	Column	Pipe	A53 Gr. B	Typical
27	MP1C	N58	N59	240	Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
28	M28	N56	N57		RIGID	None	None	RIGID	Typical
29	M29	N50	N53		RIGID	None	None	RIGID	Typical
30	MP2C	N63	N64	240	Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
31	M31	N61	N62		RIGID	None	None	RIGID	Typical
32	MP3C	N67	N68	240	Antenna Pipe	Column	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
33	M33	N65	N66		RIGID	None	None	RIGID	Typical
34	MP4C	N71	N72	240	Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
35	M35	N69	N70		RIGID	None	None	RIGID	Typical
36	M36	N75	N74		Support Rail	Column	Pipe	A53 Gr. B	Typical
37	M37	N76	N77		RIGID	None	None	RIGID	Typical
38	M38	N78	N79		RIGID	None	None	RIGID	Typical
39	M39	N80	N81		RIGID	None	None	RIGID	Typical
40	M40	N82	N83		RIGID	None	None	RIGID	Typical
41	M41	N84	N85	120	RIGID	None	None	RIGID	Typical
42	M42	N86	N87	120	RIGID	None	None	RIGID	Typical
43	M43	N50	N88		RIGID	None	None	RIGID	Typical
44	M46	N96	N95		Kickers	Column	Double Angle (No Gap)	A36 Gr.36	Typical
45	M47	N97	N136		Standoff Arm	Beam	Tube	A500 Gr.46	Typical
46	M48	N100	N99	120	Standoff Pipe	Column	Pipe	A53 Gr. B	Typical
47	M49	N103	N102		Horizontal	Column	Pipe	A53 Gr. B	Typical
48	MP1B	N106	N107	120	Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
49	M51	N104	N105		RIGID	None	None	RIGID	Typical
50	M52	N98	N101		RIGID	None	None	RIGID	Typical
51	MP2B	N111	N112	120	Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
52	M54	N109	N110		RIGID	None	None	RIGID	Typical
53	MP3B	N115	N116	120	Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
54	M56	N113	N114		RIGID	None	None	RIGID	Typical
55	MP4B	N119	N120	120	Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
56	M58	N117	N118		RIGID	None	None	RIGID	Typical
57	M59	N123	N122		Support Rail	Column	Pipe	A53 Gr. B	Typical
58	M60	N124	N125		RIGID	None	None	RIGID	Typical
59	M61	N126	N127		RIGID	None	None	RIGID	Typical
60	M62	N128	N129		RIGID	None	None	RIGID	Typical
61	M63	N130	N131		RIGID	None	None	RIGID	Typical
62	M64	N132	N133	240	RIGID	None	None	RIGID	Typical
63	M65	N134	N135	240	RIGID	None	None	RIGID	Typical
64	M66	N98	N136		RIGID	None	None	RIGID	Typical
65	M69	N144	N143		Kickers	Column	Double Angle (No Gap)	A36 Gr.36	Typical
66	M70	N38	N135		Tiebacks	Column	Pipe	A53 Gr. B	Typical
67	M71	N133	N87		Tiebacks	Column	Pipe	A53 Gr. B	Typical
68	M72	N40	N85		Tiebacks	Column	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1				Yes	Default	None
2	M2				Yes	** NA **	None
3	M4				Yes	** NA **	None
4	MP1A				Yes	** NA **	None
5	M8				Yes	** NA **	None
6	M10A	OOOOXO			Yes	** NA **	None
7	MP2A				Yes	** NA **	None
8	M8A				Yes	** NA **	None
9	MP3A				Yes	** NA **	None
10	M10				Yes	** NA **	None
11	MP4A				Yes	** NA **	None
12	M12				Yes	** NA **	None
13	M13				Yes	** NA **	None
14	M14				Yes	** NA **	None
15	M15				Yes	** NA **	None
16	M16				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
17	M17				Yes	** NA **	None
18	M18				Yes	** NA **	None
19	M19				Yes	** NA **	None
20	M20				Yes	** NA **	None
21	M21				Yes	** NA **	None
22	OVP				Yes	** NA **	None
23	M23	BenPIN	BenPIN		Yes	** NA **	None
24	M24				Yes	Default	None
25	M25				Yes	** NA **	None
26	M26				Yes	** NA **	None
27	MP1C				Yes	** NA **	None
28	M28				Yes	** NA **	None
29	M29	OOOOXO			Yes	** NA **	None
30	MP2C				Yes	** NA **	None
31	M31				Yes	** NA **	None
32	MP3C				Yes	** NA **	None
33	M33				Yes	** NA **	None
34	MP4C				Yes	** NA **	None
35	M35				Yes	** NA **	None
36	M36				Yes	** NA **	None
37	M37				Yes	** NA **	None
38	M38				Yes	** NA **	None
39	M39				Yes	** NA **	None
40	M40				Yes	** NA **	None
41	M41				Yes	** NA **	None
42	M42				Yes	** NA **	None
43	M43				Yes	** NA **	None
44	M46	BenPIN	BenPIN		Yes	** NA **	None
45	M47				Yes	Default	None
46	M48				Yes	** NA **	None
47	M49				Yes	** NA **	None
48	MP1B				Yes	** NA **	None
49	M51				Yes	** NA **	None
50	M52	OOOOXO			Yes	** NA **	None
51	MP2B				Yes	** NA **	None
52	M54				Yes	** NA **	None
53	MP3B				Yes	** NA **	None
54	M56				Yes	** NA **	None
55	MP4B				Yes	** NA **	None
56	M58				Yes	** NA **	None
57	M59				Yes	** NA **	None
58	M60				Yes	** NA **	None
59	M61				Yes	** NA **	None
60	M62				Yes	** NA **	None
61	M63				Yes	** NA **	None
62	M64				Yes	** NA **	None
63	M65				Yes	** NA **	None
64	M66				Yes	** NA **	None
65	M69	BenPIN	BenPIN		Yes	** NA **	None
66	M70	BenPIN	BenPIN		Yes	** NA **	None
67	M71	BenPIN	BenPIN		Yes	** NA **	None
68	M72	BenPIN	BenPIN		Yes	** NA **	None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	-31.65	1
2	MP2A	My	-0.024	1
3	MP2A	Mz	0.018	1
4	MP2A	Y	-31.65	5
5	MP2A	My	-0.024	5
6	MP2A	Mz	0.018	5
7	MP2B	Y	-31.65	1
8	MP2B	My	-0.009	1
9	MP2B	Mz	-0.029	1
10	MP2B	Y	-31.65	5
11	MP2B	My	-0.009	5
12	MP2B	Mz	-0.029	5
13	MP2C	Y	-31.65	1
14	MP2C	My	0.025	1
15	MP2C	Mz	0.016	1
16	MP2C	Y	-31.65	5
17	MP2C	My	0.025	5
18	MP2C	Mz	0.016	5
19	MP2A	Y	-31.65	1
20	MP2A	My	-0.024	1
21	MP2A	Mz	-0.018	1
22	MP2A	Y	-31.65	5
23	MP2A	My	-0.024	5
24	MP2A	Mz	-0.018	5
25	MP2B	Y	-31.65	1
26	MP2B	My	0.025	1
27	MP2B	Mz	-0.016	1
28	MP2B	Y	-31.65	5
29	MP2B	My	0.025	5
30	MP2B	Mz	-0.016	5
31	MP2C	Y	-31.65	1
32	MP2C	My	-0.009	1
33	MP2C	Mz	0.029	1
34	MP2C	Y	-31.65	5
35	MP2C	My	-0.009	5
36	MP2C	Mz	0.029	5
37	MP4A	Y	-43.55	2
38	MP4A	My	-0.033	2
39	MP4A	Mz	0	2
40	MP4A	Y	-43.55	4
41	MP4A	My	-0.033	4
42	MP4A	Mz	0	4
43	MP4B	Y	-43.55	2
44	MP4B	My	0.011	2
45	MP4B	Mz	-0.031	2
46	MP4B	Y	-43.55	4
47	MP4B	My	0.011	4
48	MP4B	Mz	-0.031	4
49	MP4C	Y	-43.55	2
50	MP4C	My	0.011	2
51	MP4C	Mz	0.031	2
52	MP4C	Y	-43.55	4
53	MP4C	My	0.011	4
54	MP4C	Mz	0.031	4
55	MP1A	Y	-84.4	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1A	My	0.042	3
57	MP1A	Mz	0	3
58	MP1B	Y	-84.4	3
59	MP1B	My	-0.014	3
60	MP1B	Mz	0.04	3
61	MP1C	Y	-84.4	3
62	MP1C	My	-0.014	3
63	MP1C	Mz	-0.04	3
64	MP2A	Y	-70.3	3
65	MP2A	My	0.035	3
66	MP2A	Mz	0	3
67	MP2B	Y	-70.3	3
68	MP2B	My	-0.012	3
69	MP2B	Mz	0.033	3
70	MP2C	Y	-70.3	3
71	MP2C	My	-0.012	3
72	MP2C	Mz	-0.033	3
73	MP2A	Y	-20.8	5
74	MP2A	My	0.01	5
75	MP2A	Mz	0	5
76	MP2B	Y	-20.8	5
77	MP2B	My	-0.004	5
78	MP2B	Mz	0.01	5
79	MP2C	Y	-20.8	5
80	MP2C	My	-0.004	5
81	MP2C	Mz	-0.01	5
82	OVP	Y	-32	1
83	OVP	My	0	1
84	OVP	Mz	0	1
85	MP2A	Y	-8.8	6.5
86	MP2A	My	0.009	6.5
87	MP2A	Mz	0.003	6.5
88	MP2A	Y	-8.8	7.5
89	MP2A	My	0.009	7.5
90	MP2A	Mz	0.003	7.5
91	MP2A	Y	-8.8	6.5
92	MP2A	My	0.009	6.5
93	MP2A	Mz	-0.003	6.5
94	MP2A	Y	-8.8	7.5
95	MP2A	My	0.009	7.5
96	MP2A	Mz	-0.003	7.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	-68.29	1
2	MP2A	My	-0.051	1
3	MP2A	Mz	0.04	1
4	MP2A	Y	-68.29	5
5	MP2A	My	-0.051	5
6	MP2A	Mz	0.04	5
7	MP2B	Y	-68.29	1
8	MP2B	My	-0.02	1
9	MP2B	Mz	-0.062	1
10	MP2B	Y	-68.29	5
11	MP2B	My	-0.02	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mz	-0.062	5
13	MP2C	Y	-68.29	1
14	MP2C	My	0.055	1
15	MP2C	Mz	0.035	1
16	MP2C	Y	-68.29	5
17	MP2C	My	0.055	5
18	MP2C	Mz	0.035	5
19	MP2A	Y	-68.29	1
20	MP2A	My	-0.051	1
21	MP2A	Mz	-0.04	1
22	MP2A	Y	-68.29	5
23	MP2A	My	-0.051	5
24	MP2A	Mz	-0.04	5
25	MP2B	Y	-68.29	1
26	MP2B	My	0.055	1
27	MP2B	Mz	-0.035	1
28	MP2B	Y	-68.29	5
29	MP2B	My	0.055	5
30	MP2B	Mz	-0.035	5
31	MP2C	Y	-68.29	1
32	MP2C	My	-0.02	1
33	MP2C	Mz	0.062	1
34	MP2C	Y	-68.29	5
35	MP2C	My	-0.02	5
36	MP2C	Mz	0.062	5
37	MP4A	Y	-34.755	2
38	MP4A	My	-0.026	2
39	MP4A	Mz	0	2
40	MP4A	Y	-34.755	4
41	MP4A	My	-0.026	4
42	MP4A	Mz	0	4
43	MP4B	Y	-34.755	2
44	MP4B	My	0.009	2
45	MP4B	Mz	-0.024	2
46	MP4B	Y	-34.755	4
47	MP4B	My	0.009	4
48	MP4B	Mz	-0.024	4
49	MP4C	Y	-34.755	2
50	MP4C	My	0.009	2
51	MP4C	Mz	0.024	2
52	MP4C	Y	-34.755	4
53	MP4C	My	0.009	4
54	MP4C	Mz	0.024	4
55	MP1A	Y	-43.802	3
56	MP1A	My	0.022	3
57	MP1A	Mz	0	3
58	MP1B	Y	-43.802	3
59	MP1B	My	-0.007	3
60	MP1B	Mz	0.021	3
61	MP1C	Y	-43.802	3
62	MP1C	My	-0.007	3
63	MP1C	Mz	-0.021	3
64	MP2A	Y	-39.385	3
65	MP2A	My	0.02	3
66	MP2A	Mz	0	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	Y	-39.385	3
68	MP2B	My	-0.007	3
69	MP2B	Mz	0.019	3
70	MP2C	Y	-39.385	3
71	MP2C	My	-0.007	3
72	MP2C	Mz	-0.019	3
73	MP2A	Y	-15.741	5
74	MP2A	My	0.008	5
75	MP2A	Mz	0	5
76	MP2B	Y	-15.741	5
77	MP2B	My	-0.003	5
78	MP2B	Mz	0.007	5
79	MP2C	Y	-15.741	5
80	MP2C	My	-0.003	5
81	MP2C	Mz	-0.007	5
82	OVP	Y	-85.828	1
83	OVP	My	0	1
84	OVP	Mz	0	1
85	MP2A	Y	-8.445	6.5
86	MP2A	My	0.008	6.5
87	MP2A	Mz	0.003	6.5
88	MP2A	Y	-8.445	7.5
89	MP2A	My	0.008	7.5
90	MP2A	Mz	0.003	7.5
91	MP2A	Y	-8.445	6.5
92	MP2A	My	0.008	6.5
93	MP2A	Mz	-0.003	6.5
94	MP2A	Y	-8.445	7.5
95	MP2A	My	0.008	7.5
96	MP2A	Mz	-0.003	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	1
2	MP2A	Z	-180.224	1
3	MP2A	Mx	-0.105	1
4	MP2A	X	0	5
5	MP2A	Z	-180.224	5
6	MP2A	Mx	-0.105	5
7	MP2B	X	0	1
8	MP2B	Z	-125.604	1
9	MP2B	Mx	0.114	1
10	MP2B	X	0	5
11	MP2B	Z	-125.604	5
12	MP2B	Mx	0.114	5
13	MP2C	X	0	1
14	MP2C	Z	-125.604	1
15	MP2C	Mx	-0.063	1
16	MP2C	X	0	5
17	MP2C	Z	-125.604	5
18	MP2C	Mx	-0.063	5
19	MP2A	X	0	1
20	MP2A	Z	-180.224	1
21	MP2A	Mx	0.105	1
22	MP2A	X	0	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2A	Z	-180.224	5
24	MP2A	Mx	0.105	5
25	MP2B	X	0	1
26	MP2B	Z	-125.604	1
27	MP2B	Mx	0.063	1
28	MP2B	X	0	5
29	MP2B	Z	-125.604	5
30	MP2B	Mx	0.063	5
31	MP2C	X	0	1
32	MP2C	Z	-125.604	1
33	MP2C	Mx	-0.114	1
34	MP2C	X	0	5
35	MP2C	Z	-125.604	5
36	MP2C	Mx	-0.114	5
37	MP4A	X	0	2
38	MP4A	Z	-77.55	2
39	MP4A	Mx	0	2
40	MP4A	X	0	4
41	MP4A	Z	-77.55	4
42	MP4A	Mx	0	4
43	MP4B	X	0	2
44	MP4B	Z	-32.655	2
45	MP4B	Mx	0.023	2
46	MP4B	X	0	4
47	MP4B	Z	-32.655	4
48	MP4B	Mx	0.023	4
49	MP4C	X	0	2
50	MP4C	Z	-32.655	2
51	MP4C	Mx	-0.023	2
52	MP4C	X	0	4
53	MP4C	Z	-32.655	4
54	MP4C	Mx	-0.023	4
55	MP1A	X	0	3
56	MP1A	Z	-61.327	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	-43.509	3
60	MP1B	Mx	-0.02	3
61	MP1C	X	0	3
62	MP1C	Z	-43.509	3
63	MP1C	Mx	0.02	3
64	MP2A	X	0	3
65	MP2A	Z	-61.327	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	-36.871	3
69	MP2B	Mx	-0.017	3
70	MP2C	X	0	3
71	MP2C	Z	-36.871	3
72	MP2C	Mx	0.017	3
73	MP2A	X	0	5
74	MP2A	Z	-14.639	5
75	MP2A	Mx	0	5
76	MP2B	X	0	5
77	MP2B	Z	-19.601	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2B	Mx	-0.009	5
79	MP2C	X	0	5
80	MP2C	Z	-19.601	5
81	MP2C	Mx	0.009	5
82	OVP	X	0	1
83	OVP	Z	-96.261	1
84	OVP	Mx	0	1
85	MP2A	X	0	6.5
86	MP2A	Z	-18.992	6.5
87	MP2A	Mx	-0.006	6.5
88	MP2A	X	0	7.5
89	MP2A	Z	-18.992	7.5
90	MP2A	Mx	-0.006	7.5
91	MP2A	X	0	6.5
92	MP2A	Z	-18.992	6.5
93	MP2A	Mx	0.006	6.5
94	MP2A	X	0	7.5
95	MP2A	Z	-18.992	7.5
96	MP2A	Mx	0.006	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	82.38	1
2	MP2A	Z	-142.686	1
3	MP2A	Mx	-0.145	1
4	MP2A	X	82.38	5
5	MP2A	Z	-142.686	5
6	MP2A	Mx	-0.145	5
7	MP2B	X	60.117	1
8	MP2B	Z	-104.125	1
9	MP2B	Mx	0.077	1
10	MP2B	X	60.117	5
11	MP2B	Z	-104.125	5
12	MP2B	Mx	0.077	5
13	MP2C	X	77.333	1
14	MP2C	Z	-133.945	1
15	MP2C	Mx	-0.005	1
16	MP2C	X	77.333	5
17	MP2C	Z	-133.945	5
18	MP2C	Mx	-0.005	5
19	MP2A	X	82.38	1
20	MP2A	Z	-142.686	1
21	MP2A	Mx	0.021	1
22	MP2A	X	82.38	5
23	MP2A	Z	-142.686	5
24	MP2A	Mx	0.021	5
25	MP2B	X	60.117	1
26	MP2B	Z	-104.125	1
27	MP2B	Mx	0.101	1
28	MP2B	X	60.117	5
29	MP2B	Z	-104.125	5
30	MP2B	Mx	0.101	5
31	MP2C	X	77.333	1
32	MP2C	Z	-133.945	1
33	MP2C	Mx	-0.144	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP2C	X	77.333	5
35	MP2C	Z	-133.945	5
36	MP2C	Mx	-0.144	5
37	MP4A	X	32.419	2
38	MP4A	Z	-56.152	2
39	MP4A	Mx	-0.024	2
40	MP4A	X	32.419	4
41	MP4A	Z	-56.152	4
42	MP4A	Mx	-0.024	4
43	MP4B	X	14.12	2
44	MP4B	Z	-24.457	2
45	MP4B	Mx	0.021	2
46	MP4B	X	14.12	4
47	MP4B	Z	-24.457	4
48	MP4B	Mx	0.021	4
49	MP4C	X	28.271	2
50	MP4C	Z	-48.967	2
51	MP4C	Mx	-0.027	2
52	MP4C	X	28.271	4
53	MP4C	Z	-48.967	4
54	MP4C	Mx	-0.027	4
55	MP1A	X	28.141	3
56	MP1A	Z	-48.742	3
57	MP1A	Mx	0.014	3
58	MP1B	X	20.879	3
59	MP1B	Z	-36.163	3
60	MP1B	Mx	-0.021	3
61	MP1C	X	26.495	3
62	MP1C	Z	-45.891	3
63	MP1C	Mx	0.017	3
64	MP2A	X	27.202	3
65	MP2A	Z	-47.115	3
66	MP2A	Mx	0.014	3
67	MP2B	X	17.233	3
68	MP2B	Z	-29.849	3
69	MP2B	Mx	-0.017	3
70	MP2C	X	24.942	3
71	MP2C	Z	-43.201	3
72	MP2C	Mx	0.016	3
73	MP2A	X	8.022	5
74	MP2A	Z	-13.895	5
75	MP2A	Mx	0.004	5
76	MP2B	X	10.044	5
77	MP2B	Z	-17.397	5
78	MP2B	Mx	-0.01	5
79	MP2C	X	8.48	5
80	MP2C	Z	-14.689	5
81	MP2C	Mx	0.005	5
82	OVP	X	49.436	1
83	OVP	Z	-85.626	1
84	OVP	Mx	0	1
85	MP2A	X	9.503	6.5
86	MP2A	Z	-16.459	6.5
87	MP2A	Mx	0.004	6.5
88	MP2A	X	9.503	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP2A	Z	-16.459	7.5
90	MP2A	Mx	0.004	7.5
91	MP2A	X	9.503	6.5
92	MP2A	Z	-16.459	6.5
93	MP2A	Mx	0.015	6.5
94	MP2A	X	9.503	7.5
95	MP2A	Z	-16.459	7.5
96	MP2A	Mx	0.015	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	115.902	1
2	MP2A	Z	-66.916	1
3	MP2A	Mx	-0.126	1
4	MP2A	X	115.902	5
5	MP2A	Z	-66.916	5
6	MP2A	Mx	-0.126	5
7	MP2B	X	124.643	1
8	MP2B	Z	-71.963	1
9	MP2B	Mx	0.029	1
10	MP2B	X	124.643	5
11	MP2B	Z	-71.963	5
12	MP2B	Mx	0.029	5
13	MP2C	X	154.463	1
14	MP2C	Z	-89.179	1
15	MP2C	Mx	0.079	1
16	MP2C	X	154.463	5
17	MP2C	Z	-89.179	5
18	MP2C	Mx	0.079	5
19	MP2A	X	115.902	1
20	MP2A	Z	-66.916	1
21	MP2A	Mx	-0.048	1
22	MP2A	X	115.902	5
23	MP2A	Z	-66.916	5
24	MP2A	Mx	-0.048	5
25	MP2B	X	124.643	1
26	MP2B	Z	-71.963	1
27	MP2B	Mx	0.137	1
28	MP2B	X	124.643	5
29	MP2B	Z	-71.963	5
30	MP2B	Mx	0.137	5
31	MP2C	X	154.463	1
32	MP2C	Z	-89.179	1
33	MP2C	Mx	-0.126	1
34	MP2C	X	154.463	5
35	MP2C	Z	-89.179	5
36	MP2C	Mx	-0.126	5
37	MP4A	X	34.137	2
38	MP4A	Z	-19.709	2
39	MP4A	Mx	-0.026	2
40	MP4A	X	34.137	4
41	MP4A	Z	-19.709	4
42	MP4A	Mx	-0.026	4
43	MP4B	X	41.322	2
44	MP4B	Z	-23.857	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	0.027	2
46	MP4B	X	41.322	4
47	MP4B	Z	-23.857	4
48	MP4B	Mx	0.027	4
49	MP4C	X	65.832	2
50	MP4C	Z	-38.008	2
51	MP4C	Mx	-0.01	2
52	MP4C	X	65.832	4
53	MP4C	Z	-38.008	4
54	MP4C	Mx	-0.01	4
55	MP1A	X	40.005	3
56	MP1A	Z	-23.097	3
57	MP1A	Mx	0.02	3
58	MP1B	X	42.856	3
59	MP1B	Z	-24.743	3
60	MP1B	Mx	-0.019	3
61	MP1C	X	52.584	3
62	MP1C	Z	-30.359	3
63	MP1C	Mx	0.005	3
64	MP2A	X	35.122	3
65	MP2A	Z	-20.278	3
66	MP2A	Mx	0.018	3
67	MP2B	X	39.036	3
68	MP2B	Z	-22.537	3
69	MP2B	Mx	-0.017	3
70	MP2C	X	52.388	3
71	MP2C	Z	-30.246	3
72	MP2C	Mx	0.005	3
73	MP2A	X	16.327	5
74	MP2A	Z	-9.427	5
75	MP2A	Mx	0.008	5
76	MP2B	X	15.533	5
77	MP2B	Z	-8.968	5
78	MP2B	Mx	-0.007	5
79	MP2C	X	12.825	5
80	MP2C	Z	-7.404	5
81	MP2C	Mx	0.001	5
82	OVP	X	97.861	1
83	OVP	Z	-56.5	1
84	OVP	Mx	0	1
85	MP2A	X	16.484	6.5
86	MP2A	Z	-9.517	6.5
87	MP2A	Mx	0.013	6.5
88	MP2A	X	16.484	7.5
89	MP2A	Z	-9.517	7.5
90	MP2A	Mx	0.013	7.5
91	MP2A	X	16.484	6.5
92	MP2A	Z	-9.517	6.5
93	MP2A	Mx	0.02	6.5
94	MP2A	X	16.484	7.5
95	MP2A	Z	-9.517	7.5
96	MP2A	Mx	0.02	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	118.369	1
2	MP2A	Z	0	1
3	MP2A	Mx	-0.089	1
4	MP2A	X	118.369	5
5	MP2A	Z	0	5
6	MP2A	Mx	-0.089	5
7	MP2B	X	172.988	1
8	MP2B	Z	0	1
9	MP2B	Mx	-0.05	1
10	MP2B	X	172.988	5
11	MP2B	Z	0	5
12	MP2B	Mx	-0.05	5
13	MP2C	X	172.988	1
14	MP2C	Z	0	1
15	MP2C	Mx	0.139	1
16	MP2C	X	172.988	5
17	MP2C	Z	0	5
18	MP2C	Mx	0.139	5
19	MP2A	X	118.369	1
20	MP2A	Z	0	1
21	MP2A	Mx	-0.089	1
22	MP2A	X	118.369	5
23	MP2A	Z	0	5
24	MP2A	Mx	-0.089	5
25	MP2B	X	172.988	1
26	MP2B	Z	0	1
27	MP2B	Mx	0.139	1
28	MP2B	X	172.988	5
29	MP2B	Z	0	5
30	MP2B	Mx	0.139	5
31	MP2C	X	172.988	1
32	MP2C	Z	0	1
33	MP2C	Mx	-0.05	1
34	MP2C	X	172.988	5
35	MP2C	Z	0	5
36	MP2C	Mx	-0.05	5
37	MP4A	X	26.707	2
38	MP4A	Z	0	2
39	MP4A	Mx	-0.02	2
40	MP4A	X	26.707	4
41	MP4A	Z	0	4
42	MP4A	Mx	-0.02	4
43	MP4B	X	71.602	2
44	MP4B	Z	0	2
45	MP4B	Mx	0.018	2
46	MP4B	X	71.602	4
47	MP4B	Z	0	4
48	MP4B	Mx	0.018	4
49	MP4C	X	71.602	2
50	MP4C	Z	0	2
51	MP4C	Mx	0.018	2
52	MP4C	X	71.602	4
53	MP4C	Z	0	4
54	MP4C	Mx	0.018	4
55	MP1A	X	41.149	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1A	Z	0	3
57	MP1A	Mx	0.021	3
58	MP1B	X	58.967	3
59	MP1B	Z	0	3
60	MP1B	Mx	-0.01	3
61	MP1C	X	58.967	3
62	MP1C	Z	0	3
63	MP1C	Mx	-0.01	3
64	MP2A	X	33.631	3
65	MP2A	Z	0	3
66	MP2A	Mx	0.017	3
67	MP2B	X	58.088	3
68	MP2B	Z	0	3
69	MP2B	Mx	-0.01	3
70	MP2C	X	58.088	3
71	MP2C	Z	0	3
72	MP2C	Mx	-0.01	3
73	MP2A	X	20.258	5
74	MP2A	Z	0	5
75	MP2A	Mx	0.01	5
76	MP2B	X	15.297	5
77	MP2B	Z	0	5
78	MP2B	Mx	-0.003	5
79	MP2C	X	15.297	5
80	MP2C	Z	0	5
81	MP2C	Mx	-0.003	5
82	OVP	X	124.518	1
83	OVP	Z	0	1
84	OVP	Mx	0	1
85	MP2A	X	19.048	6.5
86	MP2A	Z	0	6.5
87	MP2A	Mx	0.019	6.5
88	MP2A	X	19.048	7.5
89	MP2A	Z	0	7.5
90	MP2A	Mx	0.019	7.5
91	MP2A	X	19.048	6.5
92	MP2A	Z	0	6.5
93	MP2A	Mx	0.019	6.5
94	MP2A	X	19.048	7.5
95	MP2A	Z	0	7.5
96	MP2A	Mx	0.019	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	115.902	1
2	MP2A	Z	66.916	1
3	MP2A	Mx	-0.048	1
4	MP2A	X	115.902	5
5	MP2A	Z	66.916	5
6	MP2A	Mx	-0.048	5
7	MP2B	X	154.463	1
8	MP2B	Z	89.179	1
9	MP2B	Mx	-0.126	1
10	MP2B	X	154.463	5
11	MP2B	Z	89.179	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	-0.126	5
13	MP2C	X	124.643	1
14	MP2C	Z	71.963	1
15	MP2C	Mx	0.137	1
16	MP2C	X	124.643	5
17	MP2C	Z	71.963	5
18	MP2C	Mx	0.137	5
19	MP2A	X	115.902	1
20	MP2A	Z	66.916	1
21	MP2A	Mx	-0.126	1
22	MP2A	X	115.902	5
23	MP2A	Z	66.916	5
24	MP2A	Mx	-0.126	5
25	MP2B	X	154.463	1
26	MP2B	Z	89.179	1
27	MP2B	Mx	0.079	1
28	MP2B	X	154.463	5
29	MP2B	Z	89.179	5
30	MP2B	Mx	0.079	5
31	MP2C	X	124.643	1
32	MP2C	Z	71.963	1
33	MP2C	Mx	0.029	1
34	MP2C	X	124.643	5
35	MP2C	Z	71.963	5
36	MP2C	Mx	0.029	5
37	MP4A	X	34.137	2
38	MP4A	Z	19.709	2
39	MP4A	Mx	-0.026	2
40	MP4A	X	34.137	4
41	MP4A	Z	19.709	4
42	MP4A	Mx	-0.026	4
43	MP4B	X	65.832	2
44	MP4B	Z	38.008	2
45	MP4B	Mx	-0.01	2
46	MP4B	X	65.832	4
47	MP4B	Z	38.008	4
48	MP4B	Mx	-0.01	4
49	MP4C	X	41.322	2
50	MP4C	Z	23.857	2
51	MP4C	Mx	0.027	2
52	MP4C	X	41.322	4
53	MP4C	Z	23.857	4
54	MP4C	Mx	0.027	4
55	MP1A	X	40.005	3
56	MP1A	Z	23.097	3
57	MP1A	Mx	0.02	3
58	MP1B	X	52.584	3
59	MP1B	Z	30.359	3
60	MP1B	Mx	0.005	3
61	MP1C	X	42.856	3
62	MP1C	Z	24.743	3
63	MP1C	Mx	-0.019	3
64	MP2A	X	35.122	3
65	MP2A	Z	20.278	3
66	MP2A	Mx	0.018	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	X	52.388	3
68	MP2B	Z	30.246	3
69	MP2B	Mx	0.005	3
70	MP2C	X	39.036	3
71	MP2C	Z	22.537	3
72	MP2C	Mx	-0.017	3
73	MP2A	X	16.327	5
74	MP2A	Z	9.427	5
75	MP2A	Mx	0.008	5
76	MP2B	X	12.825	5
77	MP2B	Z	7.404	5
78	MP2B	Mx	0.001	5
79	MP2C	X	15.533	5
80	MP2C	Z	8.968	5
81	MP2C	Mx	-0.007	5
82	OVP	X	105.575	1
83	OVP	Z	60.953	1
84	OVP	Mx	0	1
85	MP2A	X	16.484	6.5
86	MP2A	Z	9.517	6.5
87	MP2A	Mx	0.02	6.5
88	MP2A	X	16.484	7.5
89	MP2A	Z	9.517	7.5
90	MP2A	Mx	0.02	7.5
91	MP2A	X	16.484	6.5
92	MP2A	Z	9.517	6.5
93	MP2A	Mx	0.013	6.5
94	MP2A	X	16.484	7.5
95	MP2A	Z	9.517	7.5
96	MP2A	Mx	0.013	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	82.38	1
2	MP2A	Z	142.686	1
3	MP2A	Mx	0.021	1
4	MP2A	X	82.38	5
5	MP2A	Z	142.686	5
6	MP2A	Mx	0.021	5
7	MP2B	X	77.333	1
8	MP2B	Z	133.945	1
9	MP2B	Mx	-0.144	1
10	MP2B	X	77.333	5
11	MP2B	Z	133.945	5
12	MP2B	Mx	-0.144	5
13	MP2C	X	60.117	1
14	MP2C	Z	104.125	1
15	MP2C	Mx	0.101	1
16	MP2C	X	60.117	5
17	MP2C	Z	104.125	5
18	MP2C	Mx	0.101	5
19	MP2A	X	82.38	1
20	MP2A	Z	142.686	1
21	MP2A	Mx	-0.145	1
22	MP2A	X	82.38	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2A	Z	142.686	5
24	MP2A	Mx	-0.145	5
25	MP2B	X	77.333	1
26	MP2B	Z	133.945	1
27	MP2B	Mx	-0.005	1
28	MP2B	X	77.333	5
29	MP2B	Z	133.945	5
30	MP2B	Mx	-0.005	5
31	MP2C	X	60.117	1
32	MP2C	Z	104.125	1
33	MP2C	Mx	0.077	1
34	MP2C	X	60.117	5
35	MP2C	Z	104.125	5
36	MP2C	Mx	0.077	5
37	MP4A	X	32.419	2
38	MP4A	Z	56.152	2
39	MP4A	Mx	-0.024	2
40	MP4A	X	32.419	4
41	MP4A	Z	56.152	4
42	MP4A	Mx	-0.024	4
43	MP4B	X	28.271	2
44	MP4B	Z	48.967	2
45	MP4B	Mx	-0.027	2
46	MP4B	X	28.271	4
47	MP4B	Z	48.967	4
48	MP4B	Mx	-0.027	4
49	MP4C	X	14.12	2
50	MP4C	Z	24.457	2
51	MP4C	Mx	0.021	2
52	MP4C	X	14.12	4
53	MP4C	Z	24.457	4
54	MP4C	Mx	0.021	4
55	MP1A	X	28.141	3
56	MP1A	Z	48.742	3
57	MP1A	Mx	0.014	3
58	MP1B	X	26.495	3
59	MP1B	Z	45.891	3
60	MP1B	Mx	0.017	3
61	MP1C	X	20.879	3
62	MP1C	Z	36.163	3
63	MP1C	Mx	-0.021	3
64	MP2A	X	27.202	3
65	MP2A	Z	47.115	3
66	MP2A	Mx	0.014	3
67	MP2B	X	24.942	3
68	MP2B	Z	43.201	3
69	MP2B	Mx	0.016	3
70	MP2C	X	17.233	3
71	MP2C	Z	29.849	3
72	MP2C	Mx	-0.017	3
73	MP2A	X	8.022	5
74	MP2A	Z	13.895	5
75	MP2A	Mx	0.004	5
76	MP2B	X	8.48	5
77	MP2B	Z	14.689	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2B	Mx	0.005	5
79	MP2C	X	10.044	5
80	MP2C	Z	17.397	5
81	MP2C	Mx	-0.01	5
82	OVP	X	53.889	1
83	OVP	Z	93.339	1
84	OVP	Mx	0	1
85	MP2A	X	9.503	6.5
86	MP2A	Z	16.459	6.5
87	MP2A	Mx	0.015	6.5
88	MP2A	X	9.503	7.5
89	MP2A	Z	16.459	7.5
90	MP2A	Mx	0.015	7.5
91	MP2A	X	9.503	6.5
92	MP2A	Z	16.459	6.5
93	MP2A	Mx	0.004	6.5
94	MP2A	X	9.503	7.5
95	MP2A	Z	16.459	7.5
96	MP2A	Mx	0.004	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	1
2	MP2A	Z	180.224	1
3	MP2A	Mx	0.105	1
4	MP2A	X	0	5
5	MP2A	Z	180.224	5
6	MP2A	Mx	0.105	5
7	MP2B	X	0	1
8	MP2B	Z	125.604	1
9	MP2B	Mx	-0.114	1
10	MP2B	X	0	5
11	MP2B	Z	125.604	5
12	MP2B	Mx	-0.114	5
13	MP2C	X	0	1
14	MP2C	Z	125.604	1
15	MP2C	Mx	0.063	1
16	MP2C	X	0	5
17	MP2C	Z	125.604	5
18	MP2C	Mx	0.063	5
19	MP2A	X	0	1
20	MP2A	Z	180.224	1
21	MP2A	Mx	-0.105	1
22	MP2A	X	0	5
23	MP2A	Z	180.224	5
24	MP2A	Mx	-0.105	5
25	MP2B	X	0	1
26	MP2B	Z	125.604	1
27	MP2B	Mx	-0.063	1
28	MP2B	X	0	5
29	MP2B	Z	125.604	5
30	MP2B	Mx	-0.063	5
31	MP2C	X	0	1
32	MP2C	Z	125.604	1
33	MP2C	Mx	0.114	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP2C	X	0	5
35	MP2C	Z	125.604	5
36	MP2C	Mx	0.114	5
37	MP4A	X	0	2
38	MP4A	Z	77.55	2
39	MP4A	Mx	0	2
40	MP4A	X	0	4
41	MP4A	Z	77.55	4
42	MP4A	Mx	0	4
43	MP4B	X	0	2
44	MP4B	Z	32.655	2
45	MP4B	Mx	-0.023	2
46	MP4B	X	0	4
47	MP4B	Z	32.655	4
48	MP4B	Mx	-0.023	4
49	MP4C	X	0	2
50	MP4C	Z	32.655	2
51	MP4C	Mx	0.023	2
52	MP4C	X	0	4
53	MP4C	Z	32.655	4
54	MP4C	Mx	0.023	4
55	MP1A	X	0	3
56	MP1A	Z	61.327	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	43.509	3
60	MP1B	Mx	0.02	3
61	MP1C	X	0	3
62	MP1C	Z	43.509	3
63	MP1C	Mx	-0.02	3
64	MP2A	X	0	3
65	MP2A	Z	61.327	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	36.871	3
69	MP2B	Mx	0.017	3
70	MP2C	X	0	3
71	MP2C	Z	36.871	3
72	MP2C	Mx	-0.017	3
73	MP2A	X	0	5
74	MP2A	Z	14.639	5
75	MP2A	Mx	0	5
76	MP2B	X	0	5
77	MP2B	Z	19.601	5
78	MP2B	Mx	0.009	5
79	MP2C	X	0	5
80	MP2C	Z	19.601	5
81	MP2C	Mx	-0.009	5
82	OVP	X	0	1
83	OVP	Z	96.261	1
84	OVP	Mx	0	1
85	MP2A	X	0	6.5
86	MP2A	Z	18.992	6.5
87	MP2A	Mx	0.006	6.5
88	MP2A	X	0	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP2A	Z	18.992	7.5
90	MP2A	Mx	0.006	7.5
91	MP2A	X	0	6.5
92	MP2A	Z	18.992	6.5
93	MP2A	Mx	-0.006	6.5
94	MP2A	X	0	7.5
95	MP2A	Z	18.992	7.5
96	MP2A	Mx	-0.006	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-82.38	1
2	MP2A	Z	142.686	1
3	MP2A	Mx	0.145	1
4	MP2A	X	-82.38	5
5	MP2A	Z	142.686	5
6	MP2A	Mx	0.145	5
7	MP2B	X	-60.117	1
8	MP2B	Z	104.125	1
9	MP2B	Mx	-0.077	1
10	MP2B	X	-60.117	5
11	MP2B	Z	104.125	5
12	MP2B	Mx	-0.077	5
13	MP2C	X	-77.333	1
14	MP2C	Z	133.945	1
15	MP2C	Mx	0.005	1
16	MP2C	X	-77.333	5
17	MP2C	Z	133.945	5
18	MP2C	Mx	0.005	5
19	MP2A	X	-82.38	1
20	MP2A	Z	142.686	1
21	MP2A	Mx	-0.021	1
22	MP2A	X	-82.38	5
23	MP2A	Z	142.686	5
24	MP2A	Mx	-0.021	5
25	MP2B	X	-60.117	1
26	MP2B	Z	104.125	1
27	MP2B	Mx	-0.101	1
28	MP2B	X	-60.117	5
29	MP2B	Z	104.125	5
30	MP2B	Mx	-0.101	5
31	MP2C	X	-77.333	1
32	MP2C	Z	133.945	1
33	MP2C	Mx	0.144	1
34	MP2C	X	-77.333	5
35	MP2C	Z	133.945	5
36	MP2C	Mx	0.144	5
37	MP4A	X	-32.419	2
38	MP4A	Z	56.152	2
39	MP4A	Mx	0.024	2
40	MP4A	X	-32.419	4
41	MP4A	Z	56.152	4
42	MP4A	Mx	0.024	4
43	MP4B	X	-14.12	2
44	MP4B	Z	24.457	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	-0.021	2
46	MP4B	X	-14.12	4
47	MP4B	Z	24.457	4
48	MP4B	Mx	-0.021	4
49	MP4C	X	-28.271	2
50	MP4C	Z	48.967	2
51	MP4C	Mx	0.027	2
52	MP4C	X	-28.271	4
53	MP4C	Z	48.967	4
54	MP4C	Mx	0.027	4
55	MP1A	X	-28.141	3
56	MP1A	Z	48.742	3
57	MP1A	Mx	-0.014	3
58	MP1B	X	-20.879	3
59	MP1B	Z	36.163	3
60	MP1B	Mx	0.021	3
61	MP1C	X	-26.495	3
62	MP1C	Z	45.891	3
63	MP1C	Mx	-0.017	3
64	MP2A	X	-27.202	3
65	MP2A	Z	47.115	3
66	MP2A	Mx	-0.014	3
67	MP2B	X	-17.233	3
68	MP2B	Z	29.849	3
69	MP2B	Mx	0.017	3
70	MP2C	X	-24.942	3
71	MP2C	Z	43.201	3
72	MP2C	Mx	-0.016	3
73	MP2A	X	-8.022	5
74	MP2A	Z	13.895	5
75	MP2A	Mx	-0.004	5
76	MP2B	X	-10.044	5
77	MP2B	Z	17.397	5
78	MP2B	Mx	0.01	5
79	MP2C	X	-8.48	5
80	MP2C	Z	14.689	5
81	MP2C	Mx	-0.005	5
82	OVP	X	-49.436	1
83	OVP	Z	85.626	1
84	OVP	Mx	0	1
85	MP2A	X	-9.503	6.5
86	MP2A	Z	16.459	6.5
87	MP2A	Mx	-0.004	6.5
88	MP2A	X	-9.503	7.5
89	MP2A	Z	16.459	7.5
90	MP2A	Mx	-0.004	7.5
91	MP2A	X	-9.503	6.5
92	MP2A	Z	16.459	6.5
93	MP2A	Mx	-0.015	6.5
94	MP2A	X	-9.503	7.5
95	MP2A	Z	16.459	7.5
96	MP2A	Mx	-0.015	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-115.902	1
2	MP2A	Z	66.916	1
3	MP2A	Mx	0.126	1
4	MP2A	X	-115.902	5
5	MP2A	Z	66.916	5
6	MP2A	Mx	0.126	5
7	MP2B	X	-124.643	1
8	MP2B	Z	71.963	1
9	MP2B	Mx	-0.029	1
10	MP2B	X	-124.643	5
11	MP2B	Z	71.963	5
12	MP2B	Mx	-0.029	5
13	MP2C	X	-154.463	1
14	MP2C	Z	89.179	1
15	MP2C	Mx	-0.079	1
16	MP2C	X	-154.463	5
17	MP2C	Z	89.179	5
18	MP2C	Mx	-0.079	5
19	MP2A	X	-115.902	1
20	MP2A	Z	66.916	1
21	MP2A	Mx	0.048	1
22	MP2A	X	-115.902	5
23	MP2A	Z	66.916	5
24	MP2A	Mx	0.048	5
25	MP2B	X	-124.643	1
26	MP2B	Z	71.963	1
27	MP2B	Mx	-0.137	1
28	MP2B	X	-124.643	5
29	MP2B	Z	71.963	5
30	MP2B	Mx	-0.137	5
31	MP2C	X	-154.463	1
32	MP2C	Z	89.179	1
33	MP2C	Mx	0.126	1
34	MP2C	X	-154.463	5
35	MP2C	Z	89.179	5
36	MP2C	Mx	0.126	5
37	MP4A	X	-34.137	2
38	MP4A	Z	19.709	2
39	MP4A	Mx	0.026	2
40	MP4A	X	-34.137	4
41	MP4A	Z	19.709	4
42	MP4A	Mx	0.026	4
43	MP4B	X	-41.322	2
44	MP4B	Z	23.857	2
45	MP4B	Mx	-0.027	2
46	MP4B	X	-41.322	4
47	MP4B	Z	23.857	4
48	MP4B	Mx	-0.027	4
49	MP4C	X	-65.832	2
50	MP4C	Z	38.008	2
51	MP4C	Mx	0.01	2
52	MP4C	X	-65.832	4
53	MP4C	Z	38.008	4
54	MP4C	Mx	0.01	4
55	MP1A	X	-40.005	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1A	Z	23.097	3
57	MP1A	Mx	-0.02	3
58	MP1B	X	-42.856	3
59	MP1B	Z	24.743	3
60	MP1B	Mx	0.019	3
61	MP1C	X	-52.584	3
62	MP1C	Z	30.359	3
63	MP1C	Mx	-0.005	3
64	MP2A	X	-35.122	3
65	MP2A	Z	20.278	3
66	MP2A	Mx	-0.018	3
67	MP2B	X	-39.036	3
68	MP2B	Z	22.537	3
69	MP2B	Mx	0.017	3
70	MP2C	X	-52.388	3
71	MP2C	Z	30.246	3
72	MP2C	Mx	-0.005	3
73	MP2A	X	-16.327	5
74	MP2A	Z	9.427	5
75	MP2A	Mx	-0.008	5
76	MP2B	X	-15.533	5
77	MP2B	Z	8.968	5
78	MP2B	Mx	0.007	5
79	MP2C	X	-12.825	5
80	MP2C	Z	7.404	5
81	MP2C	Mx	-0.001	5
82	OVP	X	-97.861	1
83	OVP	Z	56.5	1
84	OVP	Mx	0	1
85	MP2A	X	-16.484	6.5
86	MP2A	Z	9.517	6.5
87	MP2A	Mx	-0.013	6.5
88	MP2A	X	-16.484	7.5
89	MP2A	Z	9.517	7.5
90	MP2A	Mx	-0.013	7.5
91	MP2A	X	-16.484	6.5
92	MP2A	Z	9.517	6.5
93	MP2A	Mx	-0.02	6.5
94	MP2A	X	-16.484	7.5
95	MP2A	Z	9.517	7.5
96	MP2A	Mx	-0.02	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-118.369	1
2	MP2A	Z	0	1
3	MP2A	Mx	0.089	1
4	MP2A	X	-118.369	5
5	MP2A	Z	0	5
6	MP2A	Mx	0.089	5
7	MP2B	X	-172.988	1
8	MP2B	Z	0	1
9	MP2B	Mx	0.05	1
10	MP2B	X	-172.988	5
11	MP2B	Z	0	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	0.05	5
13	MP2C	X	-172.988	1
14	MP2C	Z	0	1
15	MP2C	Mx	-0.139	1
16	MP2C	X	-172.988	5
17	MP2C	Z	0	5
18	MP2C	Mx	-0.139	5
19	MP2A	X	-118.369	1
20	MP2A	Z	0	1
21	MP2A	Mx	0.089	1
22	MP2A	X	-118.369	5
23	MP2A	Z	0	5
24	MP2A	Mx	0.089	5
25	MP2B	X	-172.988	1
26	MP2B	Z	0	1
27	MP2B	Mx	-0.139	1
28	MP2B	X	-172.988	5
29	MP2B	Z	0	5
30	MP2B	Mx	-0.139	5
31	MP2C	X	-172.988	1
32	MP2C	Z	0	1
33	MP2C	Mx	0.05	1
34	MP2C	X	-172.988	5
35	MP2C	Z	0	5
36	MP2C	Mx	0.05	5
37	MP4A	X	-26.707	2
38	MP4A	Z	0	2
39	MP4A	Mx	0.02	2
40	MP4A	X	-26.707	4
41	MP4A	Z	0	4
42	MP4A	Mx	0.02	4
43	MP4B	X	-71.602	2
44	MP4B	Z	0	2
45	MP4B	Mx	-0.018	2
46	MP4B	X	-71.602	4
47	MP4B	Z	0	4
48	MP4B	Mx	-0.018	4
49	MP4C	X	-71.602	2
50	MP4C	Z	0	2
51	MP4C	Mx	-0.018	2
52	MP4C	X	-71.602	4
53	MP4C	Z	0	4
54	MP4C	Mx	-0.018	4
55	MP1A	X	-41.149	3
56	MP1A	Z	0	3
57	MP1A	Mx	-0.021	3
58	MP1B	X	-58.967	3
59	MP1B	Z	0	3
60	MP1B	Mx	0.01	3
61	MP1C	X	-58.967	3
62	MP1C	Z	0	3
63	MP1C	Mx	0.01	3
64	MP2A	X	-33.631	3
65	MP2A	Z	0	3
66	MP2A	Mx	-0.017	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	X	-58.088	3
68	MP2B	Z	0	3
69	MP2B	Mx	0.01	3
70	MP2C	X	-58.088	3
71	MP2C	Z	0	3
72	MP2C	Mx	0.01	3
73	MP2A	X	-20.258	5
74	MP2A	Z	0	5
75	MP2A	Mx	-0.01	5
76	MP2B	X	-15.297	5
77	MP2B	Z	0	5
78	MP2B	Mx	0.003	5
79	MP2C	X	-15.297	5
80	MP2C	Z	0	5
81	MP2C	Mx	0.003	5
82	OVP	X	-124.518	1
83	OVP	Z	0	1
84	OVP	Mx	0	1
85	MP2A	X	-19.048	6.5
86	MP2A	Z	0	6.5
87	MP2A	Mx	-0.019	6.5
88	MP2A	X	-19.048	7.5
89	MP2A	Z	0	7.5
90	MP2A	Mx	-0.019	7.5
91	MP2A	X	-19.048	6.5
92	MP2A	Z	0	6.5
93	MP2A	Mx	-0.019	6.5
94	MP2A	X	-19.048	7.5
95	MP2A	Z	0	7.5
96	MP2A	Mx	-0.019	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-115.902	1
2	MP2A	Z	-66.916	1
3	MP2A	Mx	0.048	1
4	MP2A	X	-115.902	5
5	MP2A	Z	-66.916	5
6	MP2A	Mx	0.048	5
7	MP2B	X	-154.463	1
8	MP2B	Z	-89.179	1
9	MP2B	Mx	0.126	1
10	MP2B	X	-154.463	5
11	MP2B	Z	-89.179	5
12	MP2B	Mx	0.126	5
13	MP2C	X	-124.643	1
14	MP2C	Z	-71.963	1
15	MP2C	Mx	-0.137	1
16	MP2C	X	-124.643	5
17	MP2C	Z	-71.963	5
18	MP2C	Mx	-0.137	5
19	MP2A	X	-115.902	1
20	MP2A	Z	-66.916	1
21	MP2A	Mx	0.126	1
22	MP2A	X	-115.902	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2A	Z	-66.916	5
24	MP2A	Mx	0.126	5
25	MP2B	X	-154.463	1
26	MP2B	Z	-89.179	1
27	MP2B	Mx	-0.079	1
28	MP2B	X	-154.463	5
29	MP2B	Z	-89.179	5
30	MP2B	Mx	-0.079	5
31	MP2C	X	-124.643	1
32	MP2C	Z	-71.963	1
33	MP2C	Mx	-0.029	1
34	MP2C	X	-124.643	5
35	MP2C	Z	-71.963	5
36	MP2C	Mx	-0.029	5
37	MP4A	X	-34.137	2
38	MP4A	Z	-19.709	2
39	MP4A	Mx	0.026	2
40	MP4A	X	-34.137	4
41	MP4A	Z	-19.709	4
42	MP4A	Mx	0.026	4
43	MP4B	X	-65.832	2
44	MP4B	Z	-38.008	2
45	MP4B	Mx	0.01	2
46	MP4B	X	-65.832	4
47	MP4B	Z	-38.008	4
48	MP4B	Mx	0.01	4
49	MP4C	X	-41.322	2
50	MP4C	Z	-23.857	2
51	MP4C	Mx	-0.027	2
52	MP4C	X	-41.322	4
53	MP4C	Z	-23.857	4
54	MP4C	Mx	-0.027	4
55	MP1A	X	-40.005	3
56	MP1A	Z	-23.097	3
57	MP1A	Mx	-0.02	3
58	MP1B	X	-52.584	3
59	MP1B	Z	-30.359	3
60	MP1B	Mx	-0.005	3
61	MP1C	X	-42.856	3
62	MP1C	Z	-24.743	3
63	MP1C	Mx	0.019	3
64	MP2A	X	-35.122	3
65	MP2A	Z	-20.278	3
66	MP2A	Mx	-0.018	3
67	MP2B	X	-52.388	3
68	MP2B	Z	-30.246	3
69	MP2B	Mx	-0.005	3
70	MP2C	X	-39.036	3
71	MP2C	Z	-22.537	3
72	MP2C	Mx	0.017	3
73	MP2A	X	-16.327	5
74	MP2A	Z	-9.427	5
75	MP2A	Mx	-0.008	5
76	MP2B	X	-12.825	5
77	MP2B	Z	-7.404	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2B	Mx	-0.001	5
79	MP2C	X	-15.533	5
80	MP2C	Z	-8.968	5
81	MP2C	Mx	0.007	5
82	OVP	X	-105.575	1
83	OVP	Z	-60.953	1
84	OVP	Mx	0	1
85	MP2A	X	-16.484	6.5
86	MP2A	Z	-9.517	6.5
87	MP2A	Mx	-0.02	6.5
88	MP2A	X	-16.484	7.5
89	MP2A	Z	-9.517	7.5
90	MP2A	Mx	-0.02	7.5
91	MP2A	X	-16.484	6.5
92	MP2A	Z	-9.517	6.5
93	MP2A	Mx	-0.013	6.5
94	MP2A	X	-16.484	7.5
95	MP2A	Z	-9.517	7.5
96	MP2A	Mx	-0.013	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-82.38	1
2	MP2A	Z	-142.686	1
3	MP2A	Mx	-0.021	1
4	MP2A	X	-82.38	5
5	MP2A	Z	-142.686	5
6	MP2A	Mx	-0.021	5
7	MP2B	X	-77.333	1
8	MP2B	Z	-133.945	1
9	MP2B	Mx	0.144	1
10	MP2B	X	-77.333	5
11	MP2B	Z	-133.945	5
12	MP2B	Mx	0.144	5
13	MP2C	X	-60.117	1
14	MP2C	Z	-104.125	1
15	MP2C	Mx	-0.101	1
16	MP2C	X	-60.117	5
17	MP2C	Z	-104.125	5
18	MP2C	Mx	-0.101	5
19	MP2A	X	-82.38	1
20	MP2A	Z	-142.686	1
21	MP2A	Mx	0.145	1
22	MP2A	X	-82.38	5
23	MP2A	Z	-142.686	5
24	MP2A	Mx	0.145	5
25	MP2B	X	-77.333	1
26	MP2B	Z	-133.945	1
27	MP2B	Mx	0.005	1
28	MP2B	X	-77.333	5
29	MP2B	Z	-133.945	5
30	MP2B	Mx	0.005	5
31	MP2C	X	-60.117	1
32	MP2C	Z	-104.125	1
33	MP2C	Mx	-0.077	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP2C	X	-60.117	5
35	MP2C	Z	-104.125	5
36	MP2C	Mx	-0.077	5
37	MP4A	X	-32.419	2
38	MP4A	Z	-56.152	2
39	MP4A	Mx	0.024	2
40	MP4A	X	-32.419	4
41	MP4A	Z	-56.152	4
42	MP4A	Mx	0.024	4
43	MP4B	X	-28.271	2
44	MP4B	Z	-48.967	2
45	MP4B	Mx	0.027	2
46	MP4B	X	-28.271	4
47	MP4B	Z	-48.967	4
48	MP4B	Mx	0.027	4
49	MP4C	X	-14.12	2
50	MP4C	Z	-24.457	2
51	MP4C	Mx	-0.021	2
52	MP4C	X	-14.12	4
53	MP4C	Z	-24.457	4
54	MP4C	Mx	-0.021	4
55	MP1A	X	-28.141	3
56	MP1A	Z	-48.742	3
57	MP1A	Mx	-0.014	3
58	MP1B	X	-26.495	3
59	MP1B	Z	-45.891	3
60	MP1B	Mx	-0.017	3
61	MP1C	X	-20.879	3
62	MP1C	Z	-36.163	3
63	MP1C	Mx	0.021	3
64	MP2A	X	-27.202	3
65	MP2A	Z	-47.115	3
66	MP2A	Mx	-0.014	3
67	MP2B	X	-24.942	3
68	MP2B	Z	-43.201	3
69	MP2B	Mx	-0.016	3
70	MP2C	X	-17.233	3
71	MP2C	Z	-29.849	3
72	MP2C	Mx	0.017	3
73	MP2A	X	-8.022	5
74	MP2A	Z	-13.895	5
75	MP2A	Mx	-0.004	5
76	MP2B	X	-8.48	5
77	MP2B	Z	-14.689	5
78	MP2B	Mx	-0.005	5
79	MP2C	X	-10.044	5
80	MP2C	Z	-17.397	5
81	MP2C	Mx	0.01	5
82	OVP	X	-53.889	1
83	OVP	Z	-93.339	1
84	OVP	Mx	0	1
85	MP2A	X	-9.503	6.5
86	MP2A	Z	-16.459	6.5
87	MP2A	Mx	-0.015	6.5
88	MP2A	X	-9.503	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP2A	Z	-16.459	7.5
90	MP2A	Mx	-0.015	7.5
91	MP2A	X	-9.503	6.5
92	MP2A	Z	-16.459	6.5
93	MP2A	Mx	-0.004	6.5
94	MP2A	X	-9.503	7.5
95	MP2A	Z	-16.459	7.5
96	MP2A	Mx	-0.004	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	1
2	MP2A	Z	-34.219	1
3	MP2A	Mx	-0.02	1
4	MP2A	X	0	5
5	MP2A	Z	-34.219	5
6	MP2A	Mx	-0.02	5
7	MP2B	X	0	1
8	MP2B	Z	-24.599	1
9	MP2B	Mx	0.022	1
10	MP2B	X	0	5
11	MP2B	Z	-24.599	5
12	MP2B	Mx	0.022	5
13	MP2C	X	0	1
14	MP2C	Z	-24.599	1
15	MP2C	Mx	-0.012	1
16	MP2C	X	0	5
17	MP2C	Z	-24.599	5
18	MP2C	Mx	-0.012	5
19	MP2A	X	0	1
20	MP2A	Z	-34.219	1
21	MP2A	Mx	0.02	1
22	MP2A	X	0	5
23	MP2A	Z	-34.219	5
24	MP2A	Mx	0.02	5
25	MP2B	X	0	1
26	MP2B	Z	-24.599	1
27	MP2B	Mx	0.012	1
28	MP2B	X	0	5
29	MP2B	Z	-24.599	5
30	MP2B	Mx	0.012	5
31	MP2C	X	0	1
32	MP2C	Z	-24.599	1
33	MP2C	Mx	-0.022	1
34	MP2C	X	0	5
35	MP2C	Z	-24.599	5
36	MP2C	Mx	-0.022	5
37	MP4A	X	0	2
38	MP4A	Z	-18.189	2
39	MP4A	Mx	0	2
40	MP4A	X	0	4
41	MP4A	Z	-18.189	4
42	MP4A	Mx	0	4
43	MP4B	X	0	2
44	MP4B	Z	-8.957	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	0.006	2
46	MP4B	X	0	4
47	MP4B	Z	-8.957	4
48	MP4B	Mx	0.006	4
49	MP4C	X	0	2
50	MP4C	Z	-8.957	2
51	MP4C	Mx	-0.006	2
52	MP4C	X	0	4
53	MP4C	Z	-8.957	4
54	MP4C	Mx	-0.006	4
55	MP1A	X	0	3
56	MP1A	Z	-15.312	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	-11.188	3
60	MP1B	Mx	-0.005	3
61	MP1C	X	0	3
62	MP1C	Z	-11.188	3
63	MP1C	Mx	0.005	3
64	MP2A	X	0	3
65	MP2A	Z	-15.312	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	-9.621	3
69	MP2B	Mx	-0.005	3
70	MP2C	X	0	3
71	MP2C	Z	-9.621	3
72	MP2C	Mx	0.005	3
73	MP2A	X	0	5
74	MP2A	Z	-3.701	5
75	MP2A	Mx	0	5
76	MP2B	X	0	5
77	MP2B	Z	-4.754	5
78	MP2B	Mx	-0.002	5
79	MP2C	X	0	5
80	MP2C	Z	-4.754	5
81	MP2C	Mx	0.002	5
82	OVP	X	0	1
83	OVP	Z	-24.829	1
84	OVP	Mx	0	1
85	MP2A	X	0	6.5
86	MP2A	Z	-1.576	6.5
87	MP2A	Mx	-0.000525	6.5
88	MP2A	X	0	7.5
89	MP2A	Z	-1.576	7.5
90	MP2A	Mx	-0.000525	7.5
91	MP2A	X	0	6.5
92	MP2A	Z	-1.576	6.5
93	MP2A	Mx	0.000525	6.5
94	MP2A	X	0	7.5
95	MP2A	Z	-1.576	7.5
96	MP2A	Mx	0.000525	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	15.748	1
2	MP2A	Z	-27.276	1
3	MP2A	Mx	-0.028	1
4	MP2A	X	15.748	5
5	MP2A	Z	-27.276	5
6	MP2A	Mx	-0.028	5
7	MP2B	X	11.826	1
8	MP2B	Z	-20.484	1
9	MP2B	Mx	0.015	1
10	MP2B	X	11.826	5
11	MP2B	Z	-20.484	5
12	MP2B	Mx	0.015	5
13	MP2C	X	14.859	1
14	MP2C	Z	-25.736	1
15	MP2C	Mx	-0.001	1
16	MP2C	X	14.859	5
17	MP2C	Z	-25.736	5
18	MP2C	Mx	-0.001	5
19	MP2A	X	15.748	1
20	MP2A	Z	-27.276	1
21	MP2A	Mx	0.004	1
22	MP2A	X	15.748	5
23	MP2A	Z	-27.276	5
24	MP2A	Mx	0.004	5
25	MP2B	X	11.826	1
26	MP2B	Z	-20.484	1
27	MP2B	Mx	0.02	1
28	MP2B	X	11.826	5
29	MP2B	Z	-20.484	5
30	MP2B	Mx	0.02	5
31	MP2C	X	14.859	1
32	MP2C	Z	-25.736	1
33	MP2C	Mx	-0.028	1
34	MP2C	X	14.859	5
35	MP2C	Z	-25.736	5
36	MP2C	Mx	-0.028	5
37	MP4A	X	7.788	2
38	MP4A	Z	-13.489	2
39	MP4A	Mx	-0.006	2
40	MP4A	X	7.788	4
41	MP4A	Z	-13.489	4
42	MP4A	Mx	-0.006	4
43	MP4B	X	4.024	2
44	MP4B	Z	-6.971	2
45	MP4B	Mx	0.006	2
46	MP4B	X	4.024	4
47	MP4B	Z	-6.971	4
48	MP4B	Mx	0.006	4
49	MP4C	X	6.935	2
50	MP4C	Z	-12.011	2
51	MP4C	Mx	-0.007	2
52	MP4C	X	6.935	4
53	MP4C	Z	-12.011	4
54	MP4C	Mx	-0.007	4
55	MP1A	X	7.072	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1A	Z	-12.249	3
57	MP1A	Mx	0.004	3
58	MP1B	X	5.391	3
59	MP1B	Z	-9.338	3
60	MP1B	Mx	-0.005	3
61	MP1C	X	6.691	3
62	MP1C	Z	-11.589	3
63	MP1C	Mx	0.004	3
64	MP2A	X	6.85	3
65	MP2A	Z	-11.865	3
66	MP2A	Mx	0.003	3
67	MP2B	X	4.531	3
68	MP2B	Z	-7.847	3
69	MP2B	Mx	-0.004	3
70	MP2C	X	6.324	3
71	MP2C	Z	-10.954	3
72	MP2C	Mx	0.004	3
73	MP2A	X	2	5
74	MP2A	Z	-3.463	5
75	MP2A	Mx	0.001	5
76	MP2B	X	2.429	5
77	MP2B	Z	-4.207	5
78	MP2B	Mx	-0.002	5
79	MP2C	X	2.097	5
80	MP2C	Z	-3.632	5
81	MP2C	Mx	0.001	5
82	OVP	X	12.713	1
83	OVP	Z	-22.02	1
84	OVP	Mx	0	1
85	MP2A	X	1.116	6.5
86	MP2A	Z	-1.934	6.5
87	MP2A	Mx	0.000471	6.5
88	MP2A	X	1.116	7.5
89	MP2A	Z	-1.934	7.5
90	MP2A	Mx	0.000471	7.5
91	MP2A	X	1.116	6.5
92	MP2A	Z	-1.934	6.5
93	MP2A	Mx	0.002	6.5
94	MP2A	X	1.116	7.5
95	MP2A	Z	-1.934	7.5
96	MP2A	Mx	0.002	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	22.558	1
2	MP2A	Z	-13.024	1
3	MP2A	Mx	-0.025	1
4	MP2A	X	22.558	5
5	MP2A	Z	-13.024	5
6	MP2A	Mx	-0.025	5
7	MP2B	X	24.098	1
8	MP2B	Z	-13.913	1
9	MP2B	Mx	0.006	1
10	MP2B	X	24.098	5
11	MP2B	Z	-13.913	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	0.006	5
13	MP2C	X	29.35	1
14	MP2C	Z	-16.945	1
15	MP2C	Mx	0.015	1
16	MP2C	X	29.35	5
17	MP2C	Z	-16.945	5
18	MP2C	Mx	0.015	5
19	MP2A	X	22.558	1
20	MP2A	Z	-13.024	1
21	MP2A	Mx	-0.009	1
22	MP2A	X	22.558	5
23	MP2A	Z	-13.024	5
24	MP2A	Mx	-0.009	5
25	MP2B	X	24.098	1
26	MP2B	Z	-13.913	1
27	MP2B	Mx	0.026	1
28	MP2B	X	24.098	5
29	MP2B	Z	-13.913	5
30	MP2B	Mx	0.026	5
31	MP2C	X	29.35	1
32	MP2C	Z	-16.945	1
33	MP2C	Mx	-0.024	1
34	MP2C	X	29.35	5
35	MP2C	Z	-16.945	5
36	MP2C	Mx	-0.024	5
37	MP4A	X	8.961	2
38	MP4A	Z	-5.174	2
39	MP4A	Mx	-0.007	2
40	MP4A	X	8.961	4
41	MP4A	Z	-5.174	4
42	MP4A	Mx	-0.007	4
43	MP4B	X	10.439	2
44	MP4B	Z	-6.027	2
45	MP4B	Mx	0.007	2
46	MP4B	X	10.439	4
47	MP4B	Z	-6.027	4
48	MP4B	Mx	0.007	4
49	MP4C	X	15.479	2
50	MP4C	Z	-8.937	2
51	MP4C	Mx	-0.002	2
52	MP4C	X	15.479	4
53	MP4C	Z	-8.937	4
54	MP4C	Mx	-0.002	4
55	MP1A	X	10.227	3
56	MP1A	Z	-5.905	3
57	MP1A	Mx	0.005	3
58	MP1B	X	10.887	3
59	MP1B	Z	-6.286	3
60	MP1B	Mx	-0.005	3
61	MP1C	X	13.138	3
62	MP1C	Z	-7.585	3
63	MP1C	Mx	0.001	3
64	MP2A	X	9.074	3
65	MP2A	Z	-5.239	3
66	MP2A	Mx	0.005	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	X	9.985	3
68	MP2B	Z	-5.765	3
69	MP2B	Mx	-0.004	3
70	MP2C	X	13.092	3
71	MP2C	Z	-7.559	3
72	MP2C	Mx	0.001	3
73	MP2A	X	3.98	5
74	MP2A	Z	-2.298	5
75	MP2A	Mx	0.002	5
76	MP2B	X	3.811	5
77	MP2B	Z	-2.2	5
78	MP2B	Mx	-0.002	5
79	MP2C	X	3.236	5
80	MP2C	Z	-1.868	5
81	MP2C	Mx	0.000324	5
82	OVP	X	24.819	1
83	OVP	Z	-14.329	1
84	OVP	Mx	0	1
85	MP2A	X	3.071	6.5
86	MP2A	Z	-1.773	6.5
87	MP2A	Mx	0.002	6.5
88	MP2A	X	3.071	7.5
89	MP2A	Z	-1.773	7.5
90	MP2A	Mx	0.002	7.5
91	MP2A	X	3.071	6.5
92	MP2A	Z	-1.773	6.5
93	MP2A	Mx	0.004	6.5
94	MP2A	X	3.071	7.5
95	MP2A	Z	-1.773	7.5
96	MP2A	Mx	0.004	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	23.324	1
2	MP2A	Z	0	1
3	MP2A	Mx	-0.017	1
4	MP2A	X	23.324	5
5	MP2A	Z	0	5
6	MP2A	Mx	-0.017	5
7	MP2B	X	32.945	1
8	MP2B	Z	0	1
9	MP2B	Mx	-0.01	1
10	MP2B	X	32.945	5
11	MP2B	Z	0	5
12	MP2B	Mx	-0.01	5
13	MP2C	X	32.945	1
14	MP2C	Z	0	1
15	MP2C	Mx	0.027	1
16	MP2C	X	32.945	5
17	MP2C	Z	0	5
18	MP2C	Mx	0.027	5
19	MP2A	X	23.324	1
20	MP2A	Z	0	1
21	MP2A	Mx	-0.017	1
22	MP2A	X	23.324	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2A	Z	0	5
24	MP2A	Mx	-0.017	5
25	MP2B	X	32.945	1
26	MP2B	Z	0	1
27	MP2B	Mx	0.027	1
28	MP2B	X	32.945	5
29	MP2B	Z	0	5
30	MP2B	Mx	0.027	5
31	MP2C	X	32.945	1
32	MP2C	Z	0	1
33	MP2C	Mx	-0.01	1
34	MP2C	X	32.945	5
35	MP2C	Z	0	5
36	MP2C	Mx	-0.01	5
37	MP4A	X	7.734	2
38	MP4A	Z	0	2
39	MP4A	Mx	-0.006	2
40	MP4A	X	7.734	4
41	MP4A	Z	0	4
42	MP4A	Mx	-0.006	4
43	MP4B	X	16.966	2
44	MP4B	Z	0	2
45	MP4B	Mx	0.004	2
46	MP4B	X	16.966	4
47	MP4B	Z	0	4
48	MP4B	Mx	0.004	4
49	MP4C	X	16.966	2
50	MP4C	Z	0	2
51	MP4C	Mx	0.004	2
52	MP4C	X	16.966	4
53	MP4C	Z	0	4
54	MP4C	Mx	0.004	4
55	MP1A	X	10.642	3
56	MP1A	Z	0	3
57	MP1A	Mx	0.005	3
58	MP1B	X	14.765	3
59	MP1B	Z	0	3
60	MP1B	Mx	-0.003	3
61	MP1C	X	14.765	3
62	MP1C	Z	0	3
63	MP1C	Mx	-0.003	3
64	MP2A	X	8.867	3
65	MP2A	Z	0	3
66	MP2A	Mx	0.004	3
67	MP2B	X	14.558	3
68	MP2B	Z	0	3
69	MP2B	Mx	-0.002	3
70	MP2C	X	14.558	3
71	MP2C	Z	0	3
72	MP2C	Mx	-0.002	3
73	MP2A	X	4.894	5
74	MP2A	Z	0	5
75	MP2A	Mx	0.002	5
76	MP2B	X	3.84	5
77	MP2B	Z	0	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2B	Mx	-0.000657	5
79	MP2C	X	3.84	5
80	MP2C	Z	0	5
81	MP2C	Mx	-0.000657	5
82	OVP	X	31.294	1
83	OVP	Z	0	1
84	OVP	Mx	0	1
85	MP2A	X	4.203	6.5
86	MP2A	Z	0	6.5
87	MP2A	Mx	0.004	6.5
88	MP2A	X	4.203	7.5
89	MP2A	Z	0	7.5
90	MP2A	Mx	0.004	7.5
91	MP2A	X	4.203	6.5
92	MP2A	Z	0	6.5
93	MP2A	Mx	0.004	6.5
94	MP2A	X	4.203	7.5
95	MP2A	Z	0	7.5
96	MP2A	Mx	0.004	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	22.558	1
2	MP2A	Z	13.024	1
3	MP2A	Mx	-0.009	1
4	MP2A	X	22.558	5
5	MP2A	Z	13.024	5
6	MP2A	Mx	-0.009	5
7	MP2B	X	29.35	1
8	MP2B	Z	16.945	1
9	MP2B	Mx	-0.024	1
10	MP2B	X	29.35	5
11	MP2B	Z	16.945	5
12	MP2B	Mx	-0.024	5
13	MP2C	X	24.098	1
14	MP2C	Z	13.913	1
15	MP2C	Mx	0.026	1
16	MP2C	X	24.098	5
17	MP2C	Z	13.913	5
18	MP2C	Mx	0.026	5
19	MP2A	X	22.558	1
20	MP2A	Z	13.024	1
21	MP2A	Mx	-0.025	1
22	MP2A	X	22.558	5
23	MP2A	Z	13.024	5
24	MP2A	Mx	-0.025	5
25	MP2B	X	29.35	1
26	MP2B	Z	16.945	1
27	MP2B	Mx	0.015	1
28	MP2B	X	29.35	5
29	MP2B	Z	16.945	5
30	MP2B	Mx	0.015	5
31	MP2C	X	24.098	1
32	MP2C	Z	13.913	1
33	MP2C	Mx	0.006	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP2C	X	24.098	5
35	MP2C	Z	13.913	5
36	MP2C	Mx	0.006	5
37	MP4A	X	8.961	2
38	MP4A	Z	5.174	2
39	MP4A	Mx	-0.007	2
40	MP4A	X	8.961	4
41	MP4A	Z	5.174	4
42	MP4A	Mx	-0.007	4
43	MP4B	X	15.479	2
44	MP4B	Z	8.937	2
45	MP4B	Mx	-0.002	2
46	MP4B	X	15.479	4
47	MP4B	Z	8.937	4
48	MP4B	Mx	-0.002	4
49	MP4C	X	10.439	2
50	MP4C	Z	6.027	2
51	MP4C	Mx	0.007	2
52	MP4C	X	10.439	4
53	MP4C	Z	6.027	4
54	MP4C	Mx	0.007	4
55	MP1A	X	10.227	3
56	MP1A	Z	5.905	3
57	MP1A	Mx	0.005	3
58	MP1B	X	13.138	3
59	MP1B	Z	7.585	3
60	MP1B	Mx	0.001	3
61	MP1C	X	10.887	3
62	MP1C	Z	6.286	3
63	MP1C	Mx	-0.005	3
64	MP2A	X	9.074	3
65	MP2A	Z	5.239	3
66	MP2A	Mx	0.005	3
67	MP2B	X	13.092	3
68	MP2B	Z	7.559	3
69	MP2B	Mx	0.001	3
70	MP2C	X	9.985	3
71	MP2C	Z	5.765	3
72	MP2C	Mx	-0.004	3
73	MP2A	X	3.98	5
74	MP2A	Z	2.298	5
75	MP2A	Mx	0.002	5
76	MP2B	X	3.236	5
77	MP2B	Z	1.868	5
78	MP2B	Mx	0.000324	5
79	MP2C	X	3.811	5
80	MP2C	Z	2.2	5
81	MP2C	Mx	-0.002	5
82	OVP	X	26.584	1
83	OVP	Z	15.348	1
84	OVP	Mx	0	1
85	MP2A	X	3.071	6.5
86	MP2A	Z	1.773	6.5
87	MP2A	Mx	0.004	6.5
88	MP2A	X	3.071	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP2A	Z	1.773	7.5
90	MP2A	Mx	0.004	7.5
91	MP2A	X	3.071	6.5
92	MP2A	Z	1.773	6.5
93	MP2A	Mx	0.002	6.5
94	MP2A	X	3.071	7.5
95	MP2A	Z	1.773	7.5
96	MP2A	Mx	0.002	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	15.748	1
2	MP2A	Z	27.276	1
3	MP2A	Mx	0.004	1
4	MP2A	X	15.748	5
5	MP2A	Z	27.276	5
6	MP2A	Mx	0.004	5
7	MP2B	X	14.859	1
8	MP2B	Z	25.736	1
9	MP2B	Mx	-0.028	1
10	MP2B	X	14.859	5
11	MP2B	Z	25.736	5
12	MP2B	Mx	-0.028	5
13	MP2C	X	11.826	1
14	MP2C	Z	20.484	1
15	MP2C	Mx	0.02	1
16	MP2C	X	11.826	5
17	MP2C	Z	20.484	5
18	MP2C	Mx	0.02	5
19	MP2A	X	15.748	1
20	MP2A	Z	27.276	1
21	MP2A	Mx	-0.028	1
22	MP2A	X	15.748	5
23	MP2A	Z	27.276	5
24	MP2A	Mx	-0.028	5
25	MP2B	X	14.859	1
26	MP2B	Z	25.736	1
27	MP2B	Mx	-0.001	1
28	MP2B	X	14.859	5
29	MP2B	Z	25.736	5
30	MP2B	Mx	-0.001	5
31	MP2C	X	11.826	1
32	MP2C	Z	20.484	1
33	MP2C	Mx	0.015	1
34	MP2C	X	11.826	5
35	MP2C	Z	20.484	5
36	MP2C	Mx	0.015	5
37	MP4A	X	7.788	2
38	MP4A	Z	13.489	2
39	MP4A	Mx	-0.006	2
40	MP4A	X	7.788	4
41	MP4A	Z	13.489	4
42	MP4A	Mx	-0.006	4
43	MP4B	X	6.935	2
44	MP4B	Z	12.011	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	-0.007	2
46	MP4B	X	6.935	4
47	MP4B	Z	12.011	4
48	MP4B	Mx	-0.007	4
49	MP4C	X	4.024	2
50	MP4C	Z	6.971	2
51	MP4C	Mx	0.006	2
52	MP4C	X	4.024	4
53	MP4C	Z	6.971	4
54	MP4C	Mx	0.006	4
55	MP1A	X	7.072	3
56	MP1A	Z	12.249	3
57	MP1A	Mx	0.004	3
58	MP1B	X	6.691	3
59	MP1B	Z	11.589	3
60	MP1B	Mx	0.004	3
61	MP1C	X	5.391	3
62	MP1C	Z	9.338	3
63	MP1C	Mx	-0.005	3
64	MP2A	X	6.85	3
65	MP2A	Z	11.865	3
66	MP2A	Mx	0.003	3
67	MP2B	X	6.324	3
68	MP2B	Z	10.954	3
69	MP2B	Mx	0.004	3
70	MP2C	X	4.531	3
71	MP2C	Z	7.847	3
72	MP2C	Mx	-0.004	3
73	MP2A	X	2	5
74	MP2A	Z	3.463	5
75	MP2A	Mx	0.001	5
76	MP2B	X	2.097	5
77	MP2B	Z	3.632	5
78	MP2B	Mx	0.001	5
79	MP2C	X	2.429	5
80	MP2C	Z	4.207	5
81	MP2C	Mx	-0.002	5
82	OVP	X	13.732	1
83	OVP	Z	23.785	1
84	OVP	Mx	0	1
85	MP2A	X	1.116	6.5
86	MP2A	Z	1.934	6.5
87	MP2A	Mx	0.002	6.5
88	MP2A	X	1.116	7.5
89	MP2A	Z	1.934	7.5
90	MP2A	Mx	0.002	7.5
91	MP2A	X	1.116	6.5
92	MP2A	Z	1.934	6.5
93	MP2A	Mx	0.000471	6.5
94	MP2A	X	1.116	7.5
95	MP2A	Z	1.934	7.5
96	MP2A	Mx	0.000471	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	1
2	MP2A	Z	34.219	1
3	MP2A	Mx	0.02	1
4	MP2A	X	0	5
5	MP2A	Z	34.219	5
6	MP2A	Mx	0.02	5
7	MP2B	X	0	1
8	MP2B	Z	24.599	1
9	MP2B	Mx	-0.022	1
10	MP2B	X	0	5
11	MP2B	Z	24.599	5
12	MP2B	Mx	-0.022	5
13	MP2C	X	0	1
14	MP2C	Z	24.599	1
15	MP2C	Mx	0.012	1
16	MP2C	X	0	5
17	MP2C	Z	24.599	5
18	MP2C	Mx	0.012	5
19	MP2A	X	0	1
20	MP2A	Z	34.219	1
21	MP2A	Mx	-0.02	1
22	MP2A	X	0	5
23	MP2A	Z	34.219	5
24	MP2A	Mx	-0.02	5
25	MP2B	X	0	1
26	MP2B	Z	24.599	1
27	MP2B	Mx	-0.012	1
28	MP2B	X	0	5
29	MP2B	Z	24.599	5
30	MP2B	Mx	-0.012	5
31	MP2C	X	0	1
32	MP2C	Z	24.599	1
33	MP2C	Mx	0.022	1
34	MP2C	X	0	5
35	MP2C	Z	24.599	5
36	MP2C	Mx	0.022	5
37	MP4A	X	0	2
38	MP4A	Z	18.189	2
39	MP4A	Mx	0	2
40	MP4A	X	0	4
41	MP4A	Z	18.189	4
42	MP4A	Mx	0	4
43	MP4B	X	0	2
44	MP4B	Z	8.957	2
45	MP4B	Mx	-0.006	2
46	MP4B	X	0	4
47	MP4B	Z	8.957	4
48	MP4B	Mx	-0.006	4
49	MP4C	X	0	2
50	MP4C	Z	8.957	2
51	MP4C	Mx	0.006	2
52	MP4C	X	0	4
53	MP4C	Z	8.957	4
54	MP4C	Mx	0.006	4
55	MP1A	X	0	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1A	Z	15.312	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	11.188	3
60	MP1B	Mx	0.005	3
61	MP1C	X	0	3
62	MP1C	Z	11.188	3
63	MP1C	Mx	-0.005	3
64	MP2A	X	0	3
65	MP2A	Z	15.312	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	9.621	3
69	MP2B	Mx	0.005	3
70	MP2C	X	0	3
71	MP2C	Z	9.621	3
72	MP2C	Mx	-0.005	3
73	MP2A	X	0	5
74	MP2A	Z	3.701	5
75	MP2A	Mx	0	5
76	MP2B	X	0	5
77	MP2B	Z	4.754	5
78	MP2B	Mx	0.002	5
79	MP2C	X	0	5
80	MP2C	Z	4.754	5
81	MP2C	Mx	-0.002	5
82	OVP	X	0	1
83	OVP	Z	24.829	1
84	OVP	Mx	0	1
85	MP2A	X	0	6.5
86	MP2A	Z	1.576	6.5
87	MP2A	Mx	0.000525	6.5
88	MP2A	X	0	7.5
89	MP2A	Z	1.576	7.5
90	MP2A	Mx	0.000525	7.5
91	MP2A	X	0	6.5
92	MP2A	Z	1.576	6.5
93	MP2A	Mx	-0.000525	6.5
94	MP2A	X	0	7.5
95	MP2A	Z	1.576	7.5
96	MP2A	Mx	-0.000525	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-15.748	1
2	MP2A	Z	27.276	1
3	MP2A	Mx	0.028	1
4	MP2A	X	-15.748	5
5	MP2A	Z	27.276	5
6	MP2A	Mx	0.028	5
7	MP2B	X	-11.826	1
8	MP2B	Z	20.484	1
9	MP2B	Mx	-0.015	1
10	MP2B	X	-11.826	5
11	MP2B	Z	20.484	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	-0.015	5
13	MP2C	X	-14.859	1
14	MP2C	Z	25.736	1
15	MP2C	Mx	0.001	1
16	MP2C	X	-14.859	5
17	MP2C	Z	25.736	5
18	MP2C	Mx	0.001	5
19	MP2A	X	-15.748	1
20	MP2A	Z	27.276	1
21	MP2A	Mx	-0.004	1
22	MP2A	X	-15.748	5
23	MP2A	Z	27.276	5
24	MP2A	Mx	-0.004	5
25	MP2B	X	-11.826	1
26	MP2B	Z	20.484	1
27	MP2B	Mx	-0.02	1
28	MP2B	X	-11.826	5
29	MP2B	Z	20.484	5
30	MP2B	Mx	-0.02	5
31	MP2C	X	-14.859	1
32	MP2C	Z	25.736	1
33	MP2C	Mx	0.028	1
34	MP2C	X	-14.859	5
35	MP2C	Z	25.736	5
36	MP2C	Mx	0.028	5
37	MP4A	X	-7.788	2
38	MP4A	Z	13.489	2
39	MP4A	Mx	0.006	2
40	MP4A	X	-7.788	4
41	MP4A	Z	13.489	4
42	MP4A	Mx	0.006	4
43	MP4B	X	-4.024	2
44	MP4B	Z	6.971	2
45	MP4B	Mx	-0.006	2
46	MP4B	X	-4.024	4
47	MP4B	Z	6.971	4
48	MP4B	Mx	-0.006	4
49	MP4C	X	-6.935	2
50	MP4C	Z	12.011	2
51	MP4C	Mx	0.007	2
52	MP4C	X	-6.935	4
53	MP4C	Z	12.011	4
54	MP4C	Mx	0.007	4
55	MP1A	X	-7.072	3
56	MP1A	Z	12.249	3
57	MP1A	Mx	-0.004	3
58	MP1B	X	-5.391	3
59	MP1B	Z	9.338	3
60	MP1B	Mx	0.005	3
61	MP1C	X	-6.691	3
62	MP1C	Z	11.589	3
63	MP1C	Mx	-0.004	3
64	MP2A	X	-6.85	3
65	MP2A	Z	11.865	3
66	MP2A	Mx	-0.003	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	X	-4.531	3
68	MP2B	Z	7.847	3
69	MP2B	Mx	0.004	3
70	MP2C	X	-6.324	3
71	MP2C	Z	10.954	3
72	MP2C	Mx	-0.004	3
73	MP2A	X	-2	5
74	MP2A	Z	3.463	5
75	MP2A	Mx	-0.001	5
76	MP2B	X	-2.429	5
77	MP2B	Z	4.207	5
78	MP2B	Mx	0.002	5
79	MP2C	X	-2.097	5
80	MP2C	Z	3.632	5
81	MP2C	Mx	-0.001	5
82	OVP	X	-12.713	1
83	OVP	Z	22.02	1
84	OVP	Mx	0	1
85	MP2A	X	-1.116	6.5
86	MP2A	Z	1.934	6.5
87	MP2A	Mx	-0.000471	6.5
88	MP2A	X	-1.116	7.5
89	MP2A	Z	1.934	7.5
90	MP2A	Mx	-0.000471	7.5
91	MP2A	X	-1.116	6.5
92	MP2A	Z	1.934	6.5
93	MP2A	Mx	-0.002	6.5
94	MP2A	X	-1.116	7.5
95	MP2A	Z	1.934	7.5
96	MP2A	Mx	-0.002	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-22.558	1
2	MP2A	Z	13.024	1
3	MP2A	Mx	0.025	1
4	MP2A	X	-22.558	5
5	MP2A	Z	13.024	5
6	MP2A	Mx	0.025	5
7	MP2B	X	-24.098	1
8	MP2B	Z	13.913	1
9	MP2B	Mx	-0.006	1
10	MP2B	X	-24.098	5
11	MP2B	Z	13.913	5
12	MP2B	Mx	-0.006	5
13	MP2C	X	-29.35	1
14	MP2C	Z	16.945	1
15	MP2C	Mx	-0.015	1
16	MP2C	X	-29.35	5
17	MP2C	Z	16.945	5
18	MP2C	Mx	-0.015	5
19	MP2A	X	-22.558	1
20	MP2A	Z	13.024	1
21	MP2A	Mx	0.009	1
22	MP2A	X	-22.558	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2A	Z	13.024	5
24	MP2A	Mx	0.009	5
25	MP2B	X	-24.098	1
26	MP2B	Z	13.913	1
27	MP2B	Mx	-0.026	1
28	MP2B	X	-24.098	5
29	MP2B	Z	13.913	5
30	MP2B	Mx	-0.026	5
31	MP2C	X	-29.35	1
32	MP2C	Z	16.945	1
33	MP2C	Mx	0.024	1
34	MP2C	X	-29.35	5
35	MP2C	Z	16.945	5
36	MP2C	Mx	0.024	5
37	MP4A	X	-8.961	2
38	MP4A	Z	5.174	2
39	MP4A	Mx	0.007	2
40	MP4A	X	-8.961	4
41	MP4A	Z	5.174	4
42	MP4A	Mx	0.007	4
43	MP4B	X	-10.439	2
44	MP4B	Z	6.027	2
45	MP4B	Mx	-0.007	2
46	MP4B	X	-10.439	4
47	MP4B	Z	6.027	4
48	MP4B	Mx	-0.007	4
49	MP4C	X	-15.479	2
50	MP4C	Z	8.937	2
51	MP4C	Mx	0.002	2
52	MP4C	X	-15.479	4
53	MP4C	Z	8.937	4
54	MP4C	Mx	0.002	4
55	MP1A	X	-10.227	3
56	MP1A	Z	5.905	3
57	MP1A	Mx	-0.005	3
58	MP1B	X	-10.887	3
59	MP1B	Z	6.286	3
60	MP1B	Mx	0.005	3
61	MP1C	X	-13.138	3
62	MP1C	Z	7.585	3
63	MP1C	Mx	-0.001	3
64	MP2A	X	-9.074	3
65	MP2A	Z	5.239	3
66	MP2A	Mx	-0.005	3
67	MP2B	X	-9.985	3
68	MP2B	Z	5.765	3
69	MP2B	Mx	0.004	3
70	MP2C	X	-13.092	3
71	MP2C	Z	7.559	3
72	MP2C	Mx	-0.001	3
73	MP2A	X	-3.98	5
74	MP2A	Z	2.298	5
75	MP2A	Mx	-0.002	5
76	MP2B	X	-3.811	5
77	MP2B	Z	2.2	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2B	Mx	0.002	5
79	MP2C	X	-3.236	5
80	MP2C	Z	1.868	5
81	MP2C	Mx	-0.000324	5
82	OVP	X	-24.819	1
83	OVP	Z	14.329	1
84	OVP	Mx	0	1
85	MP2A	X	-3.071	6.5
86	MP2A	Z	1.773	6.5
87	MP2A	Mx	-0.002	6.5
88	MP2A	X	-3.071	7.5
89	MP2A	Z	1.773	7.5
90	MP2A	Mx	-0.002	7.5
91	MP2A	X	-3.071	6.5
92	MP2A	Z	1.773	6.5
93	MP2A	Mx	-0.004	6.5
94	MP2A	X	-3.071	7.5
95	MP2A	Z	1.773	7.5
96	MP2A	Mx	-0.004	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-23.324	1
2	MP2A	Z	0	1
3	MP2A	Mx	0.017	1
4	MP2A	X	-23.324	5
5	MP2A	Z	0	5
6	MP2A	Mx	0.017	5
7	MP2B	X	-32.945	1
8	MP2B	Z	0	1
9	MP2B	Mx	0.01	1
10	MP2B	X	-32.945	5
11	MP2B	Z	0	5
12	MP2B	Mx	0.01	5
13	MP2C	X	-32.945	1
14	MP2C	Z	0	1
15	MP2C	Mx	-0.027	1
16	MP2C	X	-32.945	5
17	MP2C	Z	0	5
18	MP2C	Mx	-0.027	5
19	MP2A	X	-23.324	1
20	MP2A	Z	0	1
21	MP2A	Mx	0.017	1
22	MP2A	X	-23.324	5
23	MP2A	Z	0	5
24	MP2A	Mx	0.017	5
25	MP2B	X	-32.945	1
26	MP2B	Z	0	1
27	MP2B	Mx	-0.027	1
28	MP2B	X	-32.945	5
29	MP2B	Z	0	5
30	MP2B	Mx	-0.027	5
31	MP2C	X	-32.945	1
32	MP2C	Z	0	1
33	MP2C	Mx	0.01	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP2C	X	-32.945	5
35	MP2C	Z	0	5
36	MP2C	Mx	0.01	5
37	MP4A	X	-7.734	2
38	MP4A	Z	0	2
39	MP4A	Mx	0.006	2
40	MP4A	X	-7.734	4
41	MP4A	Z	0	4
42	MP4A	Mx	0.006	4
43	MP4B	X	-16.966	2
44	MP4B	Z	0	2
45	MP4B	Mx	-0.004	2
46	MP4B	X	-16.966	4
47	MP4B	Z	0	4
48	MP4B	Mx	-0.004	4
49	MP4C	X	-16.966	2
50	MP4C	Z	0	2
51	MP4C	Mx	-0.004	2
52	MP4C	X	-16.966	4
53	MP4C	Z	0	4
54	MP4C	Mx	-0.004	4
55	MP1A	X	-10.642	3
56	MP1A	Z	0	3
57	MP1A	Mx	-0.005	3
58	MP1B	X	-14.765	3
59	MP1B	Z	0	3
60	MP1B	Mx	0.003	3
61	MP1C	X	-14.765	3
62	MP1C	Z	0	3
63	MP1C	Mx	0.003	3
64	MP2A	X	-8.867	3
65	MP2A	Z	0	3
66	MP2A	Mx	-0.004	3
67	MP2B	X	-14.558	3
68	MP2B	Z	0	3
69	MP2B	Mx	0.002	3
70	MP2C	X	-14.558	3
71	MP2C	Z	0	3
72	MP2C	Mx	0.002	3
73	MP2A	X	-4.894	5
74	MP2A	Z	0	5
75	MP2A	Mx	-0.002	5
76	MP2B	X	-3.84	5
77	MP2B	Z	0	5
78	MP2B	Mx	0.000657	5
79	MP2C	X	-3.84	5
80	MP2C	Z	0	5
81	MP2C	Mx	0.000657	5
82	OVP	X	-31.294	1
83	OVP	Z	0	1
84	OVP	Mx	0	1
85	MP2A	X	-4.203	6.5
86	MP2A	Z	0	6.5
87	MP2A	Mx	-0.004	6.5
88	MP2A	X	-4.203	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP2A	Z	0	7.5
90	MP2A	Mx	-0.004	7.5
91	MP2A	X	-4.203	6.5
92	MP2A	Z	0	6.5
93	MP2A	Mx	-0.004	6.5
94	MP2A	X	-4.203	7.5
95	MP2A	Z	0	7.5
96	MP2A	Mx	-0.004	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-22.558	1
2	MP2A	Z	-13.024	1
3	MP2A	Mx	0.009	1
4	MP2A	X	-22.558	5
5	MP2A	Z	-13.024	5
6	MP2A	Mx	0.009	5
7	MP2B	X	-29.35	1
8	MP2B	Z	-16.945	1
9	MP2B	Mx	0.024	1
10	MP2B	X	-29.35	5
11	MP2B	Z	-16.945	5
12	MP2B	Mx	0.024	5
13	MP2C	X	-24.098	1
14	MP2C	Z	-13.913	1
15	MP2C	Mx	-0.026	1
16	MP2C	X	-24.098	5
17	MP2C	Z	-13.913	5
18	MP2C	Mx	-0.026	5
19	MP2A	X	-22.558	1
20	MP2A	Z	-13.024	1
21	MP2A	Mx	0.025	1
22	MP2A	X	-22.558	5
23	MP2A	Z	-13.024	5
24	MP2A	Mx	0.025	5
25	MP2B	X	-29.35	1
26	MP2B	Z	-16.945	1
27	MP2B	Mx	-0.015	1
28	MP2B	X	-29.35	5
29	MP2B	Z	-16.945	5
30	MP2B	Mx	-0.015	5
31	MP2C	X	-24.098	1
32	MP2C	Z	-13.913	1
33	MP2C	Mx	-0.006	1
34	MP2C	X	-24.098	5
35	MP2C	Z	-13.913	5
36	MP2C	Mx	-0.006	5
37	MP4A	X	-8.961	2
38	MP4A	Z	-5.174	2
39	MP4A	Mx	0.007	2
40	MP4A	X	-8.961	4
41	MP4A	Z	-5.174	4
42	MP4A	Mx	0.007	4
43	MP4B	X	-15.479	2
44	MP4B	Z	-8.937	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	0.002	2
46	MP4B	X	-15.479	4
47	MP4B	Z	-8.937	4
48	MP4B	Mx	0.002	4
49	MP4C	X	-10.439	2
50	MP4C	Z	-6.027	2
51	MP4C	Mx	-0.007	2
52	MP4C	X	-10.439	4
53	MP4C	Z	-6.027	4
54	MP4C	Mx	-0.007	4
55	MP1A	X	-10.227	3
56	MP1A	Z	-5.905	3
57	MP1A	Mx	-0.005	3
58	MP1B	X	-13.138	3
59	MP1B	Z	-7.585	3
60	MP1B	Mx	-0.001	3
61	MP1C	X	-10.887	3
62	MP1C	Z	-6.286	3
63	MP1C	Mx	0.005	3
64	MP2A	X	-9.074	3
65	MP2A	Z	-5.239	3
66	MP2A	Mx	-0.005	3
67	MP2B	X	-13.092	3
68	MP2B	Z	-7.559	3
69	MP2B	Mx	-0.001	3
70	MP2C	X	-9.985	3
71	MP2C	Z	-5.765	3
72	MP2C	Mx	0.004	3
73	MP2A	X	-3.98	5
74	MP2A	Z	-2.298	5
75	MP2A	Mx	-0.002	5
76	MP2B	X	-3.236	5
77	MP2B	Z	-1.868	5
78	MP2B	Mx	-0.000324	5
79	MP2C	X	-3.811	5
80	MP2C	Z	-2.2	5
81	MP2C	Mx	0.002	5
82	OVP	X	-26.584	1
83	OVP	Z	-15.348	1
84	OVP	Mx	0	1
85	MP2A	X	-3.071	6.5
86	MP2A	Z	-1.773	6.5
87	MP2A	Mx	-0.004	6.5
88	MP2A	X	-3.071	7.5
89	MP2A	Z	-1.773	7.5
90	MP2A	Mx	-0.004	7.5
91	MP2A	X	-3.071	6.5
92	MP2A	Z	-1.773	6.5
93	MP2A	Mx	-0.002	6.5
94	MP2A	X	-3.071	7.5
95	MP2A	Z	-1.773	7.5
96	MP2A	Mx	-0.002	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-15.748	1
2	MP2A	Z	-27.276	1
3	MP2A	Mx	-0.004	1
4	MP2A	X	-15.748	5
5	MP2A	Z	-27.276	5
6	MP2A	Mx	-0.004	5
7	MP2B	X	-14.859	1
8	MP2B	Z	-25.736	1
9	MP2B	Mx	0.028	1
10	MP2B	X	-14.859	5
11	MP2B	Z	-25.736	5
12	MP2B	Mx	0.028	5
13	MP2C	X	-11.826	1
14	MP2C	Z	-20.484	1
15	MP2C	Mx	-0.02	1
16	MP2C	X	-11.826	5
17	MP2C	Z	-20.484	5
18	MP2C	Mx	-0.02	5
19	MP2A	X	-15.748	1
20	MP2A	Z	-27.276	1
21	MP2A	Mx	0.028	1
22	MP2A	X	-15.748	5
23	MP2A	Z	-27.276	5
24	MP2A	Mx	0.028	5
25	MP2B	X	-14.859	1
26	MP2B	Z	-25.736	1
27	MP2B	Mx	0.001	1
28	MP2B	X	-14.859	5
29	MP2B	Z	-25.736	5
30	MP2B	Mx	0.001	5
31	MP2C	X	-11.826	1
32	MP2C	Z	-20.484	1
33	MP2C	Mx	-0.015	1
34	MP2C	X	-11.826	5
35	MP2C	Z	-20.484	5
36	MP2C	Mx	-0.015	5
37	MP4A	X	-7.788	2
38	MP4A	Z	-13.489	2
39	MP4A	Mx	0.006	2
40	MP4A	X	-7.788	4
41	MP4A	Z	-13.489	4
42	MP4A	Mx	0.006	4
43	MP4B	X	-6.935	2
44	MP4B	Z	-12.011	2
45	MP4B	Mx	0.007	2
46	MP4B	X	-6.935	4
47	MP4B	Z	-12.011	4
48	MP4B	Mx	0.007	4
49	MP4C	X	-4.024	2
50	MP4C	Z	-6.971	2
51	MP4C	Mx	-0.006	2
52	MP4C	X	-4.024	4
53	MP4C	Z	-6.971	4
54	MP4C	Mx	-0.006	4
55	MP1A	X	-7.072	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1A	Z	-12.249	3
57	MP1A	Mx	-0.004	3
58	MP1B	X	-6.691	3
59	MP1B	Z	-11.589	3
60	MP1B	Mx	-0.004	3
61	MP1C	X	-5.391	3
62	MP1C	Z	-9.338	3
63	MP1C	Mx	0.005	3
64	MP2A	X	-6.85	3
65	MP2A	Z	-11.865	3
66	MP2A	Mx	-0.003	3
67	MP2B	X	-6.324	3
68	MP2B	Z	-10.954	3
69	MP2B	Mx	-0.004	3
70	MP2C	X	-4.531	3
71	MP2C	Z	-7.847	3
72	MP2C	Mx	0.004	3
73	MP2A	X	-2	5
74	MP2A	Z	-3.463	5
75	MP2A	Mx	-0.001	5
76	MP2B	X	-2.097	5
77	MP2B	Z	-3.632	5
78	MP2B	Mx	-0.001	5
79	MP2C	X	-2.429	5
80	MP2C	Z	-4.207	5
81	MP2C	Mx	0.002	5
82	OVP	X	-13.732	1
83	OVP	Z	-23.785	1
84	OVP	Mx	0	1
85	MP2A	X	-1.116	6.5
86	MP2A	Z	-1.934	6.5
87	MP2A	Mx	-0.002	6.5
88	MP2A	X	-1.116	7.5
89	MP2A	Z	-1.934	7.5
90	MP2A	Mx	-0.002	7.5
91	MP2A	X	-1.116	6.5
92	MP2A	Z	-1.934	6.5
93	MP2A	Mx	-0.000471	6.5
94	MP2A	X	-1.116	7.5
95	MP2A	Z	-1.934	7.5
96	MP2A	Mx	-0.000471	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	1
2	MP2A	Z	-11.264	1
3	MP2A	Mx	-0.007	1
4	MP2A	X	0	5
5	MP2A	Z	-11.264	5
6	MP2A	Mx	-0.007	5
7	MP2B	X	0	1
8	MP2B	Z	-7.85	1
9	MP2B	Mx	0.007	1
10	MP2B	X	0	5
11	MP2B	Z	-7.85	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	0.007	5
13	MP2C	X	0	1
14	MP2C	Z	-7.85	1
15	MP2C	Mx	-0.004	1
16	MP2C	X	0	5
17	MP2C	Z	-7.85	5
18	MP2C	Mx	-0.004	5
19	MP2A	X	0	1
20	MP2A	Z	-11.264	1
21	MP2A	Mx	0.007	1
22	MP2A	X	0	5
23	MP2A	Z	-11.264	5
24	MP2A	Mx	0.007	5
25	MP2B	X	0	1
26	MP2B	Z	-7.85	1
27	MP2B	Mx	0.004	1
28	MP2B	X	0	5
29	MP2B	Z	-7.85	5
30	MP2B	Mx	0.004	5
31	MP2C	X	0	1
32	MP2C	Z	-7.85	1
33	MP2C	Mx	-0.007	1
34	MP2C	X	0	5
35	MP2C	Z	-7.85	5
36	MP2C	Mx	-0.007	5
37	MP4A	X	0	2
38	MP4A	Z	-4.847	2
39	MP4A	Mx	0	2
40	MP4A	X	0	4
41	MP4A	Z	-4.847	4
42	MP4A	Mx	0	4
43	MP4B	X	0	2
44	MP4B	Z	-2.041	2
45	MP4B	Mx	0.001	2
46	MP4B	X	0	4
47	MP4B	Z	-2.041	4
48	MP4B	Mx	0.001	4
49	MP4C	X	0	2
50	MP4C	Z	-2.041	2
51	MP4C	Mx	-0.001	2
52	MP4C	X	0	4
53	MP4C	Z	-2.041	4
54	MP4C	Mx	-0.001	4
55	MP1A	X	0	3
56	MP1A	Z	-3.833	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	-2.719	3
60	MP1B	Mx	-0.001	3
61	MP1C	X	0	3
62	MP1C	Z	-2.719	3
63	MP1C	Mx	0.001	3
64	MP2A	X	0	3
65	MP2A	Z	-3.833	3
66	MP2A	Mx	0	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	X	0	3
68	MP2B	Z	-2.304	3
69	MP2B	Mx	-0.001	3
70	MP2C	X	0	3
71	MP2C	Z	-2.304	3
72	MP2C	Mx	0.001	3
73	MP2A	X	0	5
74	MP2A	Z	-0.915	5
75	MP2A	Mx	0	5
76	MP2B	X	0	5
77	MP2B	Z	-1.225	5
78	MP2B	Mx	-0.000576	5
79	MP2C	X	0	5
80	MP2C	Z	-1.225	5
81	MP2C	Mx	0.000576	5
82	OVP	X	0	1
83	OVP	Z	-6.016	1
84	OVP	Mx	0	1
85	MP2A	X	0	6.5
86	MP2A	Z	-1.187	6.5
87	MP2A	Mx	-0.000396	6.5
88	MP2A	X	0	7.5
89	MP2A	Z	-1.187	7.5
90	MP2A	Mx	-0.000396	7.5
91	MP2A	X	0	6.5
92	MP2A	Z	-1.187	6.5
93	MP2A	Mx	0.000396	6.5
94	MP2A	X	0	7.5
95	MP2A	Z	-1.187	7.5
96	MP2A	Mx	0.000396	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	5.149	1
2	MP2A	Z	-8.918	1
3	MP2A	Mx	-0.009	1
4	MP2A	X	5.149	5
5	MP2A	Z	-8.918	5
6	MP2A	Mx	-0.009	5
7	MP2B	X	3.757	1
8	MP2B	Z	-6.508	1
9	MP2B	Mx	0.005	1
10	MP2B	X	3.757	5
11	MP2B	Z	-6.508	5
12	MP2B	Mx	0.005	5
13	MP2C	X	4.833	1
14	MP2C	Z	-8.372	1
15	MP2C	Mx	-0.000341	1
16	MP2C	X	4.833	5
17	MP2C	Z	-8.372	5
18	MP2C	Mx	-0.000341	5
19	MP2A	X	5.149	1
20	MP2A	Z	-8.918	1
21	MP2A	Mx	0.001	1
22	MP2A	X	5.149	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2A	Z	-8.918	5
24	MP2A	Mx	0.001	5
25	MP2B	X	3.757	1
26	MP2B	Z	-6.508	1
27	MP2B	Mx	0.006	1
28	MP2B	X	3.757	5
29	MP2B	Z	-6.508	5
30	MP2B	Mx	0.006	5
31	MP2C	X	4.833	1
32	MP2C	Z	-8.372	1
33	MP2C	Mx	-0.009	1
34	MP2C	X	4.833	5
35	MP2C	Z	-8.372	5
36	MP2C	Mx	-0.009	5
37	MP4A	X	2.026	2
38	MP4A	Z	-3.51	2
39	MP4A	Mx	-0.002	2
40	MP4A	X	2.026	4
41	MP4A	Z	-3.51	4
42	MP4A	Mx	-0.002	4
43	MP4B	X	0.883	2
44	MP4B	Z	-1.529	2
45	MP4B	Mx	0.001	2
46	MP4B	X	0.883	4
47	MP4B	Z	-1.529	4
48	MP4B	Mx	0.001	4
49	MP4C	X	1.767	2
50	MP4C	Z	-3.06	2
51	MP4C	Mx	-0.002	2
52	MP4C	X	1.767	4
53	MP4C	Z	-3.06	4
54	MP4C	Mx	-0.002	4
55	MP1A	X	1.759	3
56	MP1A	Z	-3.046	3
57	MP1A	Mx	0.000879	3
58	MP1B	X	1.305	3
59	MP1B	Z	-2.26	3
60	MP1B	Mx	-0.001	3
61	MP1C	X	1.656	3
62	MP1C	Z	-2.868	3
63	MP1C	Mx	0.001	3
64	MP2A	X	1.7	3
65	MP2A	Z	-2.945	3
66	MP2A	Mx	0.00085	3
67	MP2B	X	1.077	3
68	MP2B	Z	-1.866	3
69	MP2B	Mx	-0.001	3
70	MP2C	X	1.559	3
71	MP2C	Z	-2.7	3
72	MP2C	Mx	0.001	3
73	MP2A	X	0.501	5
74	MP2A	Z	-0.868	5
75	MP2A	Mx	0.000251	5
76	MP2B	X	0.628	5
77	MP2B	Z	-1.087	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2B	Mx	-0.000618	5
79	MP2C	X	0.53	5
80	MP2C	Z	-0.918	5
81	MP2C	Mx	0.000341	5
82	OVP	X	3.09	1
83	OVP	Z	-5.352	1
84	OVP	Mx	0	1
85	MP2A	X	0.594	6.5
86	MP2A	Z	-1.029	6.5
87	MP2A	Mx	0.000251	6.5
88	MP2A	X	0.594	7.5
89	MP2A	Z	-1.029	7.5
90	MP2A	Mx	0.000251	7.5
91	MP2A	X	0.594	6.5
92	MP2A	Z	-1.029	6.5
93	MP2A	Mx	0.000937	6.5
94	MP2A	X	0.594	7.5
95	MP2A	Z	-1.029	7.5
96	MP2A	Mx	0.000937	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	7.244	1
2	MP2A	Z	-4.182	1
3	MP2A	Mx	-0.008	1
4	MP2A	X	7.244	5
5	MP2A	Z	-4.182	5
6	MP2A	Mx	-0.008	5
7	MP2B	X	7.79	1
8	MP2B	Z	-4.498	1
9	MP2B	Mx	0.002	1
10	MP2B	X	7.79	5
11	MP2B	Z	-4.498	5
12	MP2B	Mx	0.002	5
13	MP2C	X	9.654	1
14	MP2C	Z	-5.574	1
15	MP2C	Mx	0.005	1
16	MP2C	X	9.654	5
17	MP2C	Z	-5.574	5
18	MP2C	Mx	0.005	5
19	MP2A	X	7.244	1
20	MP2A	Z	-4.182	1
21	MP2A	Mx	-0.003	1
22	MP2A	X	7.244	5
23	MP2A	Z	-4.182	5
24	MP2A	Mx	-0.003	5
25	MP2B	X	7.79	1
26	MP2B	Z	-4.498	1
27	MP2B	Mx	0.009	1
28	MP2B	X	7.79	5
29	MP2B	Z	-4.498	5
30	MP2B	Mx	0.009	5
31	MP2C	X	9.654	1
32	MP2C	Z	-5.574	1
33	MP2C	Mx	-0.008	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP2C	X	9.654	5
35	MP2C	Z	-5.574	5
36	MP2C	Mx	-0.008	5
37	MP4A	X	2.134	2
38	MP4A	Z	-1.232	2
39	MP4A	Mx	-0.002	2
40	MP4A	X	2.134	4
41	MP4A	Z	-1.232	4
42	MP4A	Mx	-0.002	4
43	MP4B	X	2.583	2
44	MP4B	Z	-1.491	2
45	MP4B	Mx	0.002	2
46	MP4B	X	2.583	4
47	MP4B	Z	-1.491	4
48	MP4B	Mx	0.002	4
49	MP4C	X	4.115	2
50	MP4C	Z	-2.376	2
51	MP4C	Mx	-0.000619	2
52	MP4C	X	4.115	4
53	MP4C	Z	-2.376	4
54	MP4C	Mx	-0.000619	4
55	MP1A	X	2.5	3
56	MP1A	Z	-1.444	3
57	MP1A	Mx	0.001	3
58	MP1B	X	2.679	3
59	MP1B	Z	-1.546	3
60	MP1B	Mx	-0.001	3
61	MP1C	X	3.287	3
62	MP1C	Z	-1.897	3
63	MP1C	Mx	0.000329	3
64	MP2A	X	2.195	3
65	MP2A	Z	-1.267	3
66	MP2A	Mx	0.001	3
67	MP2B	X	2.44	3
68	MP2B	Z	-1.409	3
69	MP2B	Mx	-0.001	3
70	MP2C	X	3.274	3
71	MP2C	Z	-1.89	3
72	MP2C	Mx	0.000328	3
73	MP2A	X	1.02	5
74	MP2A	Z	-0.589	5
75	MP2A	Mx	0.00051	5
76	MP2B	X	0.971	5
77	MP2B	Z	-0.561	5
78	MP2B	Mx	-0.00043	5
79	MP2C	X	0.802	5
80	MP2C	Z	-0.463	5
81	MP2C	Mx	8e-5	5
82	OVP	X	6.116	1
83	OVP	Z	-3.531	1
84	OVP	Mx	0	1
85	MP2A	X	1.03	6.5
86	MP2A	Z	-0.595	6.5
87	MP2A	Mx	0.000832	6.5
88	MP2A	X	1.03	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP2A	Z	-0.595	7.5
90	MP2A	Mx	0.000832	7.5
91	MP2A	X	1.03	6.5
92	MP2A	Z	-0.595	6.5
93	MP2A	Mx	0.001	6.5
94	MP2A	X	1.03	7.5
95	MP2A	Z	-0.595	7.5
96	MP2A	Mx	0.001	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	7.398	1
2	MP2A	Z	0	1
3	MP2A	Mx	-0.006	1
4	MP2A	X	7.398	5
5	MP2A	Z	0	5
6	MP2A	Mx	-0.006	5
7	MP2B	X	10.812	1
8	MP2B	Z	0	1
9	MP2B	Mx	-0.003	1
10	MP2B	X	10.812	5
11	MP2B	Z	0	5
12	MP2B	Mx	-0.003	5
13	MP2C	X	10.812	1
14	MP2C	Z	0	1
15	MP2C	Mx	0.009	1
16	MP2C	X	10.812	5
17	MP2C	Z	0	5
18	MP2C	Mx	0.009	5
19	MP2A	X	7.398	1
20	MP2A	Z	0	1
21	MP2A	Mx	-0.006	1
22	MP2A	X	7.398	5
23	MP2A	Z	0	5
24	MP2A	Mx	-0.006	5
25	MP2B	X	10.812	1
26	MP2B	Z	0	1
27	MP2B	Mx	0.009	1
28	MP2B	X	10.812	5
29	MP2B	Z	0	5
30	MP2B	Mx	0.009	5
31	MP2C	X	10.812	1
32	MP2C	Z	0	1
33	MP2C	Mx	-0.003	1
34	MP2C	X	10.812	5
35	MP2C	Z	0	5
36	MP2C	Mx	-0.003	5
37	MP4A	X	1.669	2
38	MP4A	Z	0	2
39	MP4A	Mx	-0.001	2
40	MP4A	X	1.669	4
41	MP4A	Z	0	4
42	MP4A	Mx	-0.001	4
43	MP4B	X	4.475	2
44	MP4B	Z	0	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	0.001	2
46	MP4B	X	4.475	4
47	MP4B	Z	0	4
48	MP4B	Mx	0.001	4
49	MP4C	X	4.475	2
50	MP4C	Z	0	2
51	MP4C	Mx	0.001	2
52	MP4C	X	4.475	4
53	MP4C	Z	0	4
54	MP4C	Mx	0.001	4
55	MP1A	X	2.572	3
56	MP1A	Z	0	3
57	MP1A	Mx	0.001	3
58	MP1B	X	3.685	3
59	MP1B	Z	0	3
60	MP1B	Mx	-0.00063	3
61	MP1C	X	3.685	3
62	MP1C	Z	0	3
63	MP1C	Mx	-0.00063	3
64	MP2A	X	2.102	3
65	MP2A	Z	0	3
66	MP2A	Mx	0.001	3
67	MP2B	X	3.63	3
68	MP2B	Z	0	3
69	MP2B	Mx	-0.000621	3
70	MP2C	X	3.63	3
71	MP2C	Z	0	3
72	MP2C	Mx	-0.000621	3
73	MP2A	X	1.266	5
74	MP2A	Z	0	5
75	MP2A	Mx	0.000633	5
76	MP2B	X	0.956	5
77	MP2B	Z	0	5
78	MP2B	Mx	-0.000163	5
79	MP2C	X	0.956	5
80	MP2C	Z	0	5
81	MP2C	Mx	-0.000163	5
82	OVP	X	7.782	1
83	OVP	Z	0	1
84	OVP	Mx	0	1
85	MP2A	X	1.19	6.5
86	MP2A	Z	0	6.5
87	MP2A	Mx	0.001	6.5
88	MP2A	X	1.19	7.5
89	MP2A	Z	0	7.5
90	MP2A	Mx	0.001	7.5
91	MP2A	X	1.19	6.5
92	MP2A	Z	0	6.5
93	MP2A	Mx	0.001	6.5
94	MP2A	X	1.19	7.5
95	MP2A	Z	0	7.5
96	MP2A	Mx	0.001	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	7.244	1
2	MP2A	Z	4.182	1
3	MP2A	Mx	-0.003	1
4	MP2A	X	7.244	5
5	MP2A	Z	4.182	5
6	MP2A	Mx	-0.003	5
7	MP2B	X	9.654	1
8	MP2B	Z	5.574	1
9	MP2B	Mx	-0.008	1
10	MP2B	X	9.654	5
11	MP2B	Z	5.574	5
12	MP2B	Mx	-0.008	5
13	MP2C	X	7.79	1
14	MP2C	Z	4.498	1
15	MP2C	Mx	0.009	1
16	MP2C	X	7.79	5
17	MP2C	Z	4.498	5
18	MP2C	Mx	0.009	5
19	MP2A	X	7.244	1
20	MP2A	Z	4.182	1
21	MP2A	Mx	-0.008	1
22	MP2A	X	7.244	5
23	MP2A	Z	4.182	5
24	MP2A	Mx	-0.008	5
25	MP2B	X	9.654	1
26	MP2B	Z	5.574	1
27	MP2B	Mx	0.005	1
28	MP2B	X	9.654	5
29	MP2B	Z	5.574	5
30	MP2B	Mx	0.005	5
31	MP2C	X	7.79	1
32	MP2C	Z	4.498	1
33	MP2C	Mx	0.002	1
34	MP2C	X	7.79	5
35	MP2C	Z	4.498	5
36	MP2C	Mx	0.002	5
37	MP4A	X	2.134	2
38	MP4A	Z	1.232	2
39	MP4A	Mx	-0.002	2
40	MP4A	X	2.134	4
41	MP4A	Z	1.232	4
42	MP4A	Mx	-0.002	4
43	MP4B	X	4.115	2
44	MP4B	Z	2.376	2
45	MP4B	Mx	-0.000619	2
46	MP4B	X	4.115	4
47	MP4B	Z	2.376	4
48	MP4B	Mx	-0.000619	4
49	MP4C	X	2.583	2
50	MP4C	Z	1.491	2
51	MP4C	Mx	0.002	2
52	MP4C	X	2.583	4
53	MP4C	Z	1.491	4
54	MP4C	Mx	0.002	4
55	MP1A	X	2.5	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1A	Z	1.444	3
57	MP1A	Mx	0.001	3
58	MP1B	X	3.287	3
59	MP1B	Z	1.897	3
60	MP1B	Mx	0.000329	3
61	MP1C	X	2.679	3
62	MP1C	Z	1.546	3
63	MP1C	Mx	-0.001	3
64	MP2A	X	2.195	3
65	MP2A	Z	1.267	3
66	MP2A	Mx	0.001	3
67	MP2B	X	3.274	3
68	MP2B	Z	1.89	3
69	MP2B	Mx	0.000328	3
70	MP2C	X	2.44	3
71	MP2C	Z	1.409	3
72	MP2C	Mx	-0.001	3
73	MP2A	X	1.02	5
74	MP2A	Z	0.589	5
75	MP2A	Mx	0.00051	5
76	MP2B	X	0.802	5
77	MP2B	Z	0.463	5
78	MP2B	Mx	8e-5	5
79	MP2C	X	0.971	5
80	MP2C	Z	0.561	5
81	MP2C	Mx	-0.00043	5
82	OVP	X	6.598	1
83	OVP	Z	3.81	1
84	OVP	Mx	0	1
85	MP2A	X	1.03	6.5
86	MP2A	Z	0.595	6.5
87	MP2A	Mx	0.001	6.5
88	MP2A	X	1.03	7.5
89	MP2A	Z	0.595	7.5
90	MP2A	Mx	0.001	7.5
91	MP2A	X	1.03	6.5
92	MP2A	Z	0.595	6.5
93	MP2A	Mx	0.000832	6.5
94	MP2A	X	1.03	7.5
95	MP2A	Z	0.595	7.5
96	MP2A	Mx	0.000832	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	5.149	1
2	MP2A	Z	8.918	1
3	MP2A	Mx	0.001	1
4	MP2A	X	5.149	5
5	MP2A	Z	8.918	5
6	MP2A	Mx	0.001	5
7	MP2B	X	4.833	1
8	MP2B	Z	8.372	1
9	MP2B	Mx	-0.009	1
10	MP2B	X	4.833	5
11	MP2B	Z	8.372	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	-0.009	5
13	MP2C	X	3.757	1
14	MP2C	Z	6.508	1
15	MP2C	Mx	0.006	1
16	MP2C	X	3.757	5
17	MP2C	Z	6.508	5
18	MP2C	Mx	0.006	5
19	MP2A	X	5.149	1
20	MP2A	Z	8.918	1
21	MP2A	Mx	-0.009	1
22	MP2A	X	5.149	5
23	MP2A	Z	8.918	5
24	MP2A	Mx	-0.009	5
25	MP2B	X	4.833	1
26	MP2B	Z	8.372	1
27	MP2B	Mx	-0.000341	1
28	MP2B	X	4.833	5
29	MP2B	Z	8.372	5
30	MP2B	Mx	-0.000341	5
31	MP2C	X	3.757	1
32	MP2C	Z	6.508	1
33	MP2C	Mx	0.005	1
34	MP2C	X	3.757	5
35	MP2C	Z	6.508	5
36	MP2C	Mx	0.005	5
37	MP4A	X	2.026	2
38	MP4A	Z	3.51	2
39	MP4A	Mx	-0.002	2
40	MP4A	X	2.026	4
41	MP4A	Z	3.51	4
42	MP4A	Mx	-0.002	4
43	MP4B	X	1.767	2
44	MP4B	Z	3.06	2
45	MP4B	Mx	-0.002	2
46	MP4B	X	1.767	4
47	MP4B	Z	3.06	4
48	MP4B	Mx	-0.002	4
49	MP4C	X	0.883	2
50	MP4C	Z	1.529	2
51	MP4C	Mx	0.001	2
52	MP4C	X	0.883	4
53	MP4C	Z	1.529	4
54	MP4C	Mx	0.001	4
55	MP1A	X	1.759	3
56	MP1A	Z	3.046	3
57	MP1A	Mx	0.000879	3
58	MP1B	X	1.656	3
59	MP1B	Z	2.868	3
60	MP1B	Mx	0.001	3
61	MP1C	X	1.305	3
62	MP1C	Z	2.26	3
63	MP1C	Mx	-0.001	3
64	MP2A	X	1.7	3
65	MP2A	Z	2.945	3
66	MP2A	Mx	0.00085	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	X	1.559	3
68	MP2B	Z	2.7	3
69	MP2B	Mx	0.001	3
70	MP2C	X	1.077	3
71	MP2C	Z	1.866	3
72	MP2C	Mx	-0.001	3
73	MP2A	X	0.501	5
74	MP2A	Z	0.868	5
75	MP2A	Mx	0.000251	5
76	MP2B	X	0.53	5
77	MP2B	Z	0.918	5
78	MP2B	Mx	0.000341	5
79	MP2C	X	0.628	5
80	MP2C	Z	1.087	5
81	MP2C	Mx	-0.000618	5
82	OVP	X	3.368	1
83	OVP	Z	5.834	1
84	OVP	Mx	0	1
85	MP2A	X	0.594	6.5
86	MP2A	Z	1.029	6.5
87	MP2A	Mx	0.000937	6.5
88	MP2A	X	0.594	7.5
89	MP2A	Z	1.029	7.5
90	MP2A	Mx	0.000937	7.5
91	MP2A	X	0.594	6.5
92	MP2A	Z	1.029	6.5
93	MP2A	Mx	0.000251	6.5
94	MP2A	X	0.594	7.5
95	MP2A	Z	1.029	7.5
96	MP2A	Mx	0.000251	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	1
2	MP2A	Z	11.264	1
3	MP2A	Mx	0.007	1
4	MP2A	X	0	5
5	MP2A	Z	11.264	5
6	MP2A	Mx	0.007	5
7	MP2B	X	0	1
8	MP2B	Z	7.85	1
9	MP2B	Mx	-0.007	1
10	MP2B	X	0	5
11	MP2B	Z	7.85	5
12	MP2B	Mx	-0.007	5
13	MP2C	X	0	1
14	MP2C	Z	7.85	1
15	MP2C	Mx	0.004	1
16	MP2C	X	0	5
17	MP2C	Z	7.85	5
18	MP2C	Mx	0.004	5
19	MP2A	X	0	1
20	MP2A	Z	11.264	1
21	MP2A	Mx	-0.007	1
22	MP2A	X	0	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2A	Z	11.264	5
24	MP2A	Mx	-0.007	5
25	MP2B	X	0	1
26	MP2B	Z	7.85	1
27	MP2B	Mx	-0.004	1
28	MP2B	X	0	5
29	MP2B	Z	7.85	5
30	MP2B	Mx	-0.004	5
31	MP2C	X	0	1
32	MP2C	Z	7.85	1
33	MP2C	Mx	0.007	1
34	MP2C	X	0	5
35	MP2C	Z	7.85	5
36	MP2C	Mx	0.007	5
37	MP4A	X	0	2
38	MP4A	Z	4.847	2
39	MP4A	Mx	0	2
40	MP4A	X	0	4
41	MP4A	Z	4.847	4
42	MP4A	Mx	0	4
43	MP4B	X	0	2
44	MP4B	Z	2.041	2
45	MP4B	Mx	-0.001	2
46	MP4B	X	0	4
47	MP4B	Z	2.041	4
48	MP4B	Mx	-0.001	4
49	MP4C	X	0	2
50	MP4C	Z	2.041	2
51	MP4C	Mx	0.001	2
52	MP4C	X	0	4
53	MP4C	Z	2.041	4
54	MP4C	Mx	0.001	4
55	MP1A	X	0	3
56	MP1A	Z	3.833	3
57	MP1A	Mx	0	3
58	MP1B	X	0	3
59	MP1B	Z	2.719	3
60	MP1B	Mx	0.001	3
61	MP1C	X	0	3
62	MP1C	Z	2.719	3
63	MP1C	Mx	-0.001	3
64	MP2A	X	0	3
65	MP2A	Z	3.833	3
66	MP2A	Mx	0	3
67	MP2B	X	0	3
68	MP2B	Z	2.304	3
69	MP2B	Mx	0.001	3
70	MP2C	X	0	3
71	MP2C	Z	2.304	3
72	MP2C	Mx	-0.001	3
73	MP2A	X	0	5
74	MP2A	Z	0.915	5
75	MP2A	Mx	0	5
76	MP2B	X	0	5
77	MP2B	Z	1.225	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2B	Mx	0.000576	5
79	MP2C	X	0	5
80	MP2C	Z	1.225	5
81	MP2C	Mx	-0.000576	5
82	OVP	X	0	1
83	OVP	Z	6.016	1
84	OVP	Mx	0	1
85	MP2A	X	0	6.5
86	MP2A	Z	1.187	6.5
87	MP2A	Mx	0.000396	6.5
88	MP2A	X	0	7.5
89	MP2A	Z	1.187	7.5
90	MP2A	Mx	0.000396	7.5
91	MP2A	X	0	6.5
92	MP2A	Z	1.187	6.5
93	MP2A	Mx	-0.000396	6.5
94	MP2A	X	0	7.5
95	MP2A	Z	1.187	7.5
96	MP2A	Mx	-0.000396	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-5.149	1
2	MP2A	Z	8.918	1
3	MP2A	Mx	0.009	1
4	MP2A	X	-5.149	5
5	MP2A	Z	8.918	5
6	MP2A	Mx	0.009	5
7	MP2B	X	-3.757	1
8	MP2B	Z	6.508	1
9	MP2B	Mx	-0.005	1
10	MP2B	X	-3.757	5
11	MP2B	Z	6.508	5
12	MP2B	Mx	-0.005	5
13	MP2C	X	-4.833	1
14	MP2C	Z	8.372	1
15	MP2C	Mx	0.000341	1
16	MP2C	X	-4.833	5
17	MP2C	Z	8.372	5
18	MP2C	Mx	0.000341	5
19	MP2A	X	-5.149	1
20	MP2A	Z	8.918	1
21	MP2A	Mx	-0.001	1
22	MP2A	X	-5.149	5
23	MP2A	Z	8.918	5
24	MP2A	Mx	-0.001	5
25	MP2B	X	-3.757	1
26	MP2B	Z	6.508	1
27	MP2B	Mx	-0.006	1
28	MP2B	X	-3.757	5
29	MP2B	Z	6.508	5
30	MP2B	Mx	-0.006	5
31	MP2C	X	-4.833	1
32	MP2C	Z	8.372	1
33	MP2C	Mx	0.009	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
34	MP2C	X	-4.833	5
35	MP2C	Z	8.372	5
36	MP2C	Mx	0.009	5
37	MP4A	X	-2.026	2
38	MP4A	Z	3.51	2
39	MP4A	Mx	0.002	2
40	MP4A	X	-2.026	4
41	MP4A	Z	3.51	4
42	MP4A	Mx	0.002	4
43	MP4B	X	-0.883	2
44	MP4B	Z	1.529	2
45	MP4B	Mx	-0.001	2
46	MP4B	X	-0.883	4
47	MP4B	Z	1.529	4
48	MP4B	Mx	-0.001	4
49	MP4C	X	-1.767	2
50	MP4C	Z	3.06	2
51	MP4C	Mx	0.002	2
52	MP4C	X	-1.767	4
53	MP4C	Z	3.06	4
54	MP4C	Mx	0.002	4
55	MP1A	X	-1.759	3
56	MP1A	Z	3.046	3
57	MP1A	Mx	-0.000879	3
58	MP1B	X	-1.305	3
59	MP1B	Z	2.26	3
60	MP1B	Mx	0.001	3
61	MP1C	X	-1.656	3
62	MP1C	Z	2.868	3
63	MP1C	Mx	-0.001	3
64	MP2A	X	-1.7	3
65	MP2A	Z	2.945	3
66	MP2A	Mx	-0.00085	3
67	MP2B	X	-1.077	3
68	MP2B	Z	1.866	3
69	MP2B	Mx	0.001	3
70	MP2C	X	-1.559	3
71	MP2C	Z	2.7	3
72	MP2C	Mx	-0.001	3
73	MP2A	X	-0.501	5
74	MP2A	Z	0.868	5
75	MP2A	Mx	-0.000251	5
76	MP2B	X	-0.628	5
77	MP2B	Z	1.087	5
78	MP2B	Mx	0.000618	5
79	MP2C	X	-0.53	5
80	MP2C	Z	0.918	5
81	MP2C	Mx	-0.000341	5
82	OVP	X	-3.09	1
83	OVP	Z	5.352	1
84	OVP	Mx	0	1
85	MP2A	X	-0.594	6.5
86	MP2A	Z	1.029	6.5
87	MP2A	Mx	-0.000251	6.5
88	MP2A	X	-0.594	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
89	MP2A	Z	1.029	7.5
90	MP2A	Mx	-0.000251	7.5
91	MP2A	X	-0.594	6.5
92	MP2A	Z	1.029	6.5
93	MP2A	Mx	-0.000937	6.5
94	MP2A	X	-0.594	7.5
95	MP2A	Z	1.029	7.5
96	MP2A	Mx	-0.000937	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-7.244	1
2	MP2A	Z	4.182	1
3	MP2A	Mx	0.008	1
4	MP2A	X	-7.244	5
5	MP2A	Z	4.182	5
6	MP2A	Mx	0.008	5
7	MP2B	X	-7.79	1
8	MP2B	Z	4.498	1
9	MP2B	Mx	-0.002	1
10	MP2B	X	-7.79	5
11	MP2B	Z	4.498	5
12	MP2B	Mx	-0.002	5
13	MP2C	X	-9.654	1
14	MP2C	Z	5.574	1
15	MP2C	Mx	-0.005	1
16	MP2C	X	-9.654	5
17	MP2C	Z	5.574	5
18	MP2C	Mx	-0.005	5
19	MP2A	X	-7.244	1
20	MP2A	Z	4.182	1
21	MP2A	Mx	0.003	1
22	MP2A	X	-7.244	5
23	MP2A	Z	4.182	5
24	MP2A	Mx	0.003	5
25	MP2B	X	-7.79	1
26	MP2B	Z	4.498	1
27	MP2B	Mx	-0.009	1
28	MP2B	X	-7.79	5
29	MP2B	Z	4.498	5
30	MP2B	Mx	-0.009	5
31	MP2C	X	-9.654	1
32	MP2C	Z	5.574	1
33	MP2C	Mx	0.008	1
34	MP2C	X	-9.654	5
35	MP2C	Z	5.574	5
36	MP2C	Mx	0.008	5
37	MP4A	X	-2.134	2
38	MP4A	Z	1.232	2
39	MP4A	Mx	0.002	2
40	MP4A	X	-2.134	4
41	MP4A	Z	1.232	4
42	MP4A	Mx	0.002	4
43	MP4B	X	-2.583	2
44	MP4B	Z	1.491	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
45	MP4B	Mx	-0.002	2
46	MP4B	X	-2.583	4
47	MP4B	Z	1.491	4
48	MP4B	Mx	-0.002	4
49	MP4C	X	-4.115	2
50	MP4C	Z	2.376	2
51	MP4C	Mx	0.000619	2
52	MP4C	X	-4.115	4
53	MP4C	Z	2.376	4
54	MP4C	Mx	0.000619	4
55	MP1A	X	-2.5	3
56	MP1A	Z	1.444	3
57	MP1A	Mx	-0.001	3
58	MP1B	X	-2.679	3
59	MP1B	Z	1.546	3
60	MP1B	Mx	0.001	3
61	MP1C	X	-3.287	3
62	MP1C	Z	1.897	3
63	MP1C	Mx	-0.000329	3
64	MP2A	X	-2.195	3
65	MP2A	Z	1.267	3
66	MP2A	Mx	-0.001	3
67	MP2B	X	-2.44	3
68	MP2B	Z	1.409	3
69	MP2B	Mx	0.001	3
70	MP2C	X	-3.274	3
71	MP2C	Z	1.89	3
72	MP2C	Mx	-0.000328	3
73	MP2A	X	-1.02	5
74	MP2A	Z	0.589	5
75	MP2A	Mx	-0.00051	5
76	MP2B	X	-0.971	5
77	MP2B	Z	0.561	5
78	MP2B	Mx	0.00043	5
79	MP2C	X	-0.802	5
80	MP2C	Z	0.463	5
81	MP2C	Mx	-8e-5	5
82	OVP	X	-6.116	1
83	OVP	Z	3.531	1
84	OVP	Mx	0	1
85	MP2A	X	-1.03	6.5
86	MP2A	Z	0.595	6.5
87	MP2A	Mx	-0.000832	6.5
88	MP2A	X	-1.03	7.5
89	MP2A	Z	0.595	7.5
90	MP2A	Mx	-0.000832	7.5
91	MP2A	X	-1.03	6.5
92	MP2A	Z	0.595	6.5
93	MP2A	Mx	-0.001	6.5
94	MP2A	X	-1.03	7.5
95	MP2A	Z	0.595	7.5
96	MP2A	Mx	-0.001	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-7.398	1
2	MP2A	Z	0	1
3	MP2A	Mx	0.006	1
4	MP2A	X	-7.398	5
5	MP2A	Z	0	5
6	MP2A	Mx	0.006	5
7	MP2B	X	-10.812	1
8	MP2B	Z	0	1
9	MP2B	Mx	0.003	1
10	MP2B	X	-10.812	5
11	MP2B	Z	0	5
12	MP2B	Mx	0.003	5
13	MP2C	X	-10.812	1
14	MP2C	Z	0	1
15	MP2C	Mx	-0.009	1
16	MP2C	X	-10.812	5
17	MP2C	Z	0	5
18	MP2C	Mx	-0.009	5
19	MP2A	X	-7.398	1
20	MP2A	Z	0	1
21	MP2A	Mx	0.006	1
22	MP2A	X	-7.398	5
23	MP2A	Z	0	5
24	MP2A	Mx	0.006	5
25	MP2B	X	-10.812	1
26	MP2B	Z	0	1
27	MP2B	Mx	-0.009	1
28	MP2B	X	-10.812	5
29	MP2B	Z	0	5
30	MP2B	Mx	-0.009	5
31	MP2C	X	-10.812	1
32	MP2C	Z	0	1
33	MP2C	Mx	0.003	1
34	MP2C	X	-10.812	5
35	MP2C	Z	0	5
36	MP2C	Mx	0.003	5
37	MP4A	X	-1.669	2
38	MP4A	Z	0	2
39	MP4A	Mx	0.001	2
40	MP4A	X	-1.669	4
41	MP4A	Z	0	4
42	MP4A	Mx	0.001	4
43	MP4B	X	-4.475	2
44	MP4B	Z	0	2
45	MP4B	Mx	-0.001	2
46	MP4B	X	-4.475	4
47	MP4B	Z	0	4
48	MP4B	Mx	-0.001	4
49	MP4C	X	-4.475	2
50	MP4C	Z	0	2
51	MP4C	Mx	-0.001	2
52	MP4C	X	-4.475	4
53	MP4C	Z	0	4
54	MP4C	Mx	-0.001	4
55	MP1A	X	-2.572	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1A	Z	0	3
57	MP1A	Mx	-0.001	3
58	MP1B	X	-3.685	3
59	MP1B	Z	0	3
60	MP1B	Mx	0.00063	3
61	MP1C	X	-3.685	3
62	MP1C	Z	0	3
63	MP1C	Mx	0.00063	3
64	MP2A	X	-2.102	3
65	MP2A	Z	0	3
66	MP2A	Mx	-0.001	3
67	MP2B	X	-3.63	3
68	MP2B	Z	0	3
69	MP2B	Mx	0.000621	3
70	MP2C	X	-3.63	3
71	MP2C	Z	0	3
72	MP2C	Mx	0.000621	3
73	MP2A	X	-1.266	5
74	MP2A	Z	0	5
75	MP2A	Mx	-0.000633	5
76	MP2B	X	-0.956	5
77	MP2B	Z	0	5
78	MP2B	Mx	0.000163	5
79	MP2C	X	-0.956	5
80	MP2C	Z	0	5
81	MP2C	Mx	0.000163	5
82	OVP	X	-7.782	1
83	OVP	Z	0	1
84	OVP	Mx	0	1
85	MP2A	X	-1.19	6.5
86	MP2A	Z	0	6.5
87	MP2A	Mx	-0.001	6.5
88	MP2A	X	-1.19	7.5
89	MP2A	Z	0	7.5
90	MP2A	Mx	-0.001	7.5
91	MP2A	X	-1.19	6.5
92	MP2A	Z	0	6.5
93	MP2A	Mx	-0.001	6.5
94	MP2A	X	-1.19	7.5
95	MP2A	Z	0	7.5
96	MP2A	Mx	-0.001	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-7.244	1
2	MP2A	Z	-4.182	1
3	MP2A	Mx	0.003	1
4	MP2A	X	-7.244	5
5	MP2A	Z	-4.182	5
6	MP2A	Mx	0.003	5
7	MP2B	X	-9.654	1
8	MP2B	Z	-5.574	1
9	MP2B	Mx	0.008	1
10	MP2B	X	-9.654	5
11	MP2B	Z	-5.574	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	0.008	5
13	MP2C	X	-7.79	1
14	MP2C	Z	-4.498	1
15	MP2C	Mx	-0.009	1
16	MP2C	X	-7.79	5
17	MP2C	Z	-4.498	5
18	MP2C	Mx	-0.009	5
19	MP2A	X	-7.244	1
20	MP2A	Z	-4.182	1
21	MP2A	Mx	0.008	1
22	MP2A	X	-7.244	5
23	MP2A	Z	-4.182	5
24	MP2A	Mx	0.008	5
25	MP2B	X	-9.654	1
26	MP2B	Z	-5.574	1
27	MP2B	Mx	-0.005	1
28	MP2B	X	-9.654	5
29	MP2B	Z	-5.574	5
30	MP2B	Mx	-0.005	5
31	MP2C	X	-7.79	1
32	MP2C	Z	-4.498	1
33	MP2C	Mx	-0.002	1
34	MP2C	X	-7.79	5
35	MP2C	Z	-4.498	5
36	MP2C	Mx	-0.002	5
37	MP4A	X	-2.134	2
38	MP4A	Z	-1.232	2
39	MP4A	Mx	0.002	2
40	MP4A	X	-2.134	4
41	MP4A	Z	-1.232	4
42	MP4A	Mx	0.002	4
43	MP4B	X	-4.115	2
44	MP4B	Z	-2.376	2
45	MP4B	Mx	0.000619	2
46	MP4B	X	-4.115	4
47	MP4B	Z	-2.376	4
48	MP4B	Mx	0.000619	4
49	MP4C	X	-2.583	2
50	MP4C	Z	-1.491	2
51	MP4C	Mx	-0.002	2
52	MP4C	X	-2.583	4
53	MP4C	Z	-1.491	4
54	MP4C	Mx	-0.002	4
55	MP1A	X	-2.5	3
56	MP1A	Z	-1.444	3
57	MP1A	Mx	-0.001	3
58	MP1B	X	-3.287	3
59	MP1B	Z	-1.897	3
60	MP1B	Mx	-0.000329	3
61	MP1C	X	-2.679	3
62	MP1C	Z	-1.546	3
63	MP1C	Mx	0.001	3
64	MP2A	X	-2.195	3
65	MP2A	Z	-1.267	3
66	MP2A	Mx	-0.001	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	X	-3.274	3
68	MP2B	Z	-1.89	3
69	MP2B	Mx	-0.000328	3
70	MP2C	X	-2.44	3
71	MP2C	Z	-1.409	3
72	MP2C	Mx	0.001	3
73	MP2A	X	-1.02	5
74	MP2A	Z	-0.589	5
75	MP2A	Mx	-0.00051	5
76	MP2B	X	-0.802	5
77	MP2B	Z	-0.463	5
78	MP2B	Mx	-8e-5	5
79	MP2C	X	-0.971	5
80	MP2C	Z	-0.561	5
81	MP2C	Mx	0.00043	5
82	OVP	X	-6.598	1
83	OVP	Z	-3.81	1
84	OVP	Mx	0	1
85	MP2A	X	-1.03	6.5
86	MP2A	Z	-0.595	6.5
87	MP2A	Mx	-0.001	6.5
88	MP2A	X	-1.03	7.5
89	MP2A	Z	-0.595	7.5
90	MP2A	Mx	-0.001	7.5
91	MP2A	X	-1.03	6.5
92	MP2A	Z	-0.595	6.5
93	MP2A	Mx	-0.000832	6.5
94	MP2A	X	-1.03	7.5
95	MP2A	Z	-0.595	7.5
96	MP2A	Mx	-0.000832	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-5.149	1
2	MP2A	Z	-8.918	1
3	MP2A	Mx	-0.001	1
4	MP2A	X	-5.149	5
5	MP2A	Z	-8.918	5
6	MP2A	Mx	-0.001	5
7	MP2B	X	-4.833	1
8	MP2B	Z	-8.372	1
9	MP2B	Mx	0.009	1
10	MP2B	X	-4.833	5
11	MP2B	Z	-8.372	5
12	MP2B	Mx	0.009	5
13	MP2C	X	-3.757	1
14	MP2C	Z	-6.508	1
15	MP2C	Mx	-0.006	1
16	MP2C	X	-3.757	5
17	MP2C	Z	-6.508	5
18	MP2C	Mx	-0.006	5
19	MP2A	X	-5.149	1
20	MP2A	Z	-8.918	1
21	MP2A	Mx	0.009	1
22	MP2A	X	-5.149	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2A	Z	-8.918	5
24	MP2A	Mx	0.009	5
25	MP2B	X	-4.833	1
26	MP2B	Z	-8.372	1
27	MP2B	Mx	0.000341	1
28	MP2B	X	-4.833	5
29	MP2B	Z	-8.372	5
30	MP2B	Mx	0.000341	5
31	MP2C	X	-3.757	1
32	MP2C	Z	-6.508	1
33	MP2C	Mx	-0.005	1
34	MP2C	X	-3.757	5
35	MP2C	Z	-6.508	5
36	MP2C	Mx	-0.005	5
37	MP4A	X	-2.026	2
38	MP4A	Z	-3.51	2
39	MP4A	Mx	0.002	2
40	MP4A	X	-2.026	4
41	MP4A	Z	-3.51	4
42	MP4A	Mx	0.002	4
43	MP4B	X	-1.767	2
44	MP4B	Z	-3.06	2
45	MP4B	Mx	0.002	2
46	MP4B	X	-1.767	4
47	MP4B	Z	-3.06	4
48	MP4B	Mx	0.002	4
49	MP4C	X	-0.883	2
50	MP4C	Z	-1.529	2
51	MP4C	Mx	-0.001	2
52	MP4C	X	-0.883	4
53	MP4C	Z	-1.529	4
54	MP4C	Mx	-0.001	4
55	MP1A	X	-1.759	3
56	MP1A	Z	-3.046	3
57	MP1A	Mx	-0.000879	3
58	MP1B	X	-1.656	3
59	MP1B	Z	-2.868	3
60	MP1B	Mx	-0.001	3
61	MP1C	X	-1.305	3
62	MP1C	Z	-2.26	3
63	MP1C	Mx	0.001	3
64	MP2A	X	-1.7	3
65	MP2A	Z	-2.945	3
66	MP2A	Mx	-0.00085	3
67	MP2B	X	-1.559	3
68	MP2B	Z	-2.7	3
69	MP2B	Mx	-0.001	3
70	MP2C	X	-1.077	3
71	MP2C	Z	-1.866	3
72	MP2C	Mx	0.001	3
73	MP2A	X	-0.501	5
74	MP2A	Z	-0.868	5
75	MP2A	Mx	-0.000251	5
76	MP2B	X	-0.53	5
77	MP2B	Z	-0.918	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
78	MP2B	Mx	-0.000341	5
79	MP2C	X	-0.628	5
80	MP2C	Z	-1.087	5
81	MP2C	Mx	0.000618	5
82	OVP	X	-3.368	1
83	OVP	Z	-5.834	1
84	OVP	Mx	0	1
85	MP2A	X	-0.594	6.5
86	MP2A	Z	-1.029	6.5
87	MP2A	Mx	-0.000937	6.5
88	MP2A	X	-0.594	7.5
89	MP2A	Z	-1.029	7.5
90	MP2A	Mx	-0.000937	7.5
91	MP2A	X	-0.594	6.5
92	MP2A	Z	-1.029	6.5
93	MP2A	Mx	-0.000251	6.5
94	MP2A	X	-0.594	7.5
95	MP2A	Z	-1.029	7.5
96	MP2A	Mx	-0.000251	7.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M8A	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M12	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M4	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M4	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	-1.276	1
2	MP2A	My	-0.000957	1
3	MP2A	Mz	0.000744	1
4	MP2A	Y	-1.276	5
5	MP2A	My	-0.000957	5
6	MP2A	Mz	0.000744	5
7	MP2B	Y	-1.276	1
8	MP2B	My	-0.000372	1
9	MP2B	Mz	-0.001	1
10	MP2B	Y	-1.276	5
11	MP2B	My	-0.000372	5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mz	-0.001	5
13	MP2C	Y	-1.276	1
14	MP2C	My	0.001	1
15	MP2C	Mz	0.000645	1
16	MP2C	Y	-1.276	5
17	MP2C	My	0.001	5
18	MP2C	Mz	0.000645	5
19	MP2A	Y	-1.276	1
20	MP2A	My	-0.000957	1
21	MP2A	Mz	-0.000744	1
22	MP2A	Y	-1.276	5
23	MP2A	My	-0.000957	5
24	MP2A	Mz	-0.000744	5
25	MP2B	Y	-1.276	1
26	MP2B	My	0.001	1
27	MP2B	Mz	-0.000645	1
28	MP2B	Y	-1.276	5
29	MP2B	My	0.001	5
30	MP2B	Mz	-0.000645	5
31	MP2C	Y	-1.276	1
32	MP2C	My	-0.000372	1
33	MP2C	Mz	0.001	1
34	MP2C	Y	-1.276	5
35	MP2C	My	-0.000372	5
36	MP2C	Mz	0.001	5
37	MP4A	Y	-1.756	2
38	MP4A	My	-0.001	2
39	MP4A	Mz	0	2
40	MP4A	Y	-1.756	4
41	MP4A	My	-0.001	4
42	MP4A	Mz	0	4
43	MP4B	Y	-1.756	2
44	MP4B	My	0.00045	2
45	MP4B	Mz	-0.001	2
46	MP4B	Y	-1.756	4
47	MP4B	My	0.00045	4
48	MP4B	Mz	-0.001	4
49	MP4C	Y	-1.756	2
50	MP4C	My	0.00045	2
51	MP4C	Mz	0.001	2
52	MP4C	Y	-1.756	4
53	MP4C	My	0.00045	4
54	MP4C	Mz	0.001	4
55	MP1A	Y	-3.403	3
56	MP1A	My	0.002	3
57	MP1A	Mz	0	3
58	MP1B	Y	-3.403	3
59	MP1B	My	-0.000582	3
60	MP1B	Mz	0.002	3
61	MP1C	Y	-3.403	3
62	MP1C	My	-0.000582	3
63	MP1C	Mz	-0.002	3
64	MP2A	Y	-2.834	3
65	MP2A	My	0.001	3
66	MP2A	Mz	0	3

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP2B	Y	-2.834	3
68	MP2B	My	-0.000485	3
69	MP2B	Mz	0.001	3
70	MP2C	Y	-2.834	3
71	MP2C	My	-0.000485	3
72	MP2C	Mz	-0.001	3
73	MP2A	Y	-0.839	5
74	MP2A	My	0.000419	5
75	MP2A	Mz	0	5
76	MP2B	Y	-0.839	5
77	MP2B	My	-0.000143	5
78	MP2B	Mz	0.000394	5
79	MP2C	Y	-0.839	5
80	MP2C	My	-0.000143	5
81	MP2C	Mz	-0.000394	5
82	OVP	Y	-1.29	1
83	OVP	My	0	1
84	OVP	Mz	0	1
85	MP2A	Y	-0.355	6.5
86	MP2A	My	0.000355	6.5
87	MP2A	Mz	0.000118	6.5
88	MP2A	Y	-0.355	7.5
89	MP2A	My	0.000355	7.5
90	MP2A	Mz	0.000118	7.5
91	MP2A	Y	-0.355	6.5
92	MP2A	My	0.000355	6.5
93	MP2A	Mz	-0.000118	6.5
94	MP2A	Y	-0.355	7.5
95	MP2A	My	0.000355	7.5
96	MP2A	Mz	-0.000118	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Z	-3.19	1
2	MP2A	Mx	-0.002	1
3	MP2A	Z	-3.19	5
4	MP2A	Mx	-0.002	5
5	MP2B	Z	-3.19	1
6	MP2B	Mx	0.003	1
7	MP2B	Z	-3.19	5
8	MP2B	Mx	0.003	5
9	MP2C	Z	-3.19	1
10	MP2C	Mx	-0.002	1
11	MP2C	Z	-3.19	5
12	MP2C	Mx	-0.002	5
13	MP2A	Z	-3.19	1
14	MP2A	Mx	0.002	1
15	MP2A	Z	-3.19	5
16	MP2A	Mx	0.002	5
17	MP2B	Z	-3.19	1
18	MP2B	Mx	0.002	1
19	MP2B	Z	-3.19	5
20	MP2B	Mx	0.002	5
21	MP2C	Z	-3.19	1
22	MP2C	Mx	-0.003	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
23	MP2C	Z	-3.19	5
24	MP2C	Mx	-0.003	5
25	MP4A	Z	-4.39	2
26	MP4A	Mx	0	2
27	MP4A	Z	-4.39	4
28	MP4A	Mx	0	4
29	MP4B	Z	-4.39	2
30	MP4B	Mx	0.003	2
31	MP4B	Z	-4.39	4
32	MP4B	Mx	0.003	4
33	MP4C	Z	-4.39	2
34	MP4C	Mx	-0.003	2
35	MP4C	Z	-4.39	4
36	MP4C	Mx	-0.003	4
37	MP1A	Z	-8.508	3
38	MP1A	Mx	0	3
39	MP1B	Z	-8.508	3
40	MP1B	Mx	-0.004	3
41	MP1C	Z	-8.508	3
42	MP1C	Mx	0.004	3
43	MP2A	Z	-7.086	3
44	MP2A	Mx	0	3
45	MP2B	Z	-7.086	3
46	MP2B	Mx	-0.003	3
47	MP2C	Z	-7.086	3
48	MP2C	Mx	0.003	3
49	MP2A	Z	-2.097	5
50	MP2A	Mx	0	5
51	MP2B	Z	-2.097	5
52	MP2B	Mx	-0.000985	5
53	MP2C	Z	-2.097	5
54	MP2C	Mx	0.000985	5
55	OVP	Z	-3.226	1
56	OVP	Mx	0	1
57	MP2A	Z	-0.887	6.5
58	MP2A	Mx	-0.000296	6.5
59	MP2A	Z	-0.887	7.5
60	MP2A	Mx	-0.000296	7.5
61	MP2A	Z	-0.887	6.5
62	MP2A	Mx	0.000296	6.5
63	MP2A	Z	-0.887	7.5
64	MP2A	Mx	0.000296	7.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	3.19	1
2	MP2A	Mx	-0.002	1
3	MP2A	X	3.19	5
4	MP2A	Mx	-0.002	5
5	MP2B	X	3.19	1
6	MP2B	Mx	-0.00093	1
7	MP2B	X	3.19	5
8	MP2B	Mx	-0.00093	5
9	MP2C	X	3.19	1
10	MP2C	Mx	0.003	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
11	MP2C	X	3.19	5
12	MP2C	Mx	0.003	5
13	MP2A	X	3.19	1
14	MP2A	Mx	-0.002	1
15	MP2A	X	3.19	5
16	MP2A	Mx	-0.002	5
17	MP2B	X	3.19	1
18	MP2B	Mx	0.003	1
19	MP2B	X	3.19	5
20	MP2B	Mx	0.003	5
21	MP2C	X	3.19	1
22	MP2C	Mx	-0.00093	1
23	MP2C	X	3.19	5
24	MP2C	Mx	-0.00093	5
25	MP4A	X	4.39	2
26	MP4A	Mx	-0.003	2
27	MP4A	X	4.39	4
28	MP4A	Mx	-0.003	4
29	MP4B	X	4.39	2
30	MP4B	Mx	0.001	2
31	MP4B	X	4.39	4
32	MP4B	Mx	0.001	4
33	MP4C	X	4.39	2
34	MP4C	Mx	0.001	2
35	MP4C	X	4.39	4
36	MP4C	Mx	0.001	4
37	MP1A	X	8.508	3
38	MP1A	Mx	0.004	3
39	MP1B	X	8.508	3
40	MP1B	Mx	-0.001	3
41	MP1C	X	8.508	3
42	MP1C	Mx	-0.001	3
43	MP2A	X	7.086	3
44	MP2A	Mx	0.004	3
45	MP2B	X	7.086	3
46	MP2B	Mx	-0.001	3
47	MP2C	X	7.086	3
48	MP2C	Mx	-0.001	3
49	MP2A	X	2.097	5
50	MP2A	Mx	0.001	5
51	MP2B	X	2.097	5
52	MP2B	Mx	-0.000359	5
53	MP2C	X	2.097	5
54	MP2C	Mx	-0.000359	5
55	OVP	X	3.226	1
56	OVP	Mx	0	1
57	MP2A	X	0.887	6.5
58	MP2A	Mx	0.000887	6.5
59	MP2A	X	0.887	7.5
60	MP2A	Mx	0.000887	7.5
61	MP2A	X	0.887	6.5
62	MP2A	Mx	0.000887	6.5
63	MP2A	X	0.887	7.5
64	MP2A	Mx	0.000887	7.5

Member Area Loads

No Data to Print...

Node Reactions

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	1	N1	11.923	1811.252	2567.217	-0.92	0.076	0.468
2	1	N47	0.022	-869.235	-456.826	0	0	0
3	1	N49	-1073.887	-1224.031	1674.128	1.409	-2.612	-1.474
4	1	N95	1011.024	2089.859	-552.077	0	0	0
5	1	N97	1002.237	-1359.668	1779.902	0.307	2.057	1.097
6	1	N143	-951.366	2222.521	-764.918	0	0	0
7	1	Totals:	-0.047	2670.698	4247.427			
8	1	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
9	2	N1	-822.721	1414.797	1965.141	-0.724	-2.199	1.816
10	2	N47	-19.807	-474.55	-242.234	0	0	0
11	2	N49	-2151.014	-2028.736	2083.339	0.974	-2.104	-1.707
12	2	N95	1379.427	2884.981	-776.505	0	0	0
13	2	N97	16.274	-416.583	1152.776	0.879	2.481	0.935
14	2	N143	-565.467	1290.774	-435.195	0	0	0
15	2	Totals:	-2163.308	2670.683	3747.323			
16	2	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
17	3	N1	-1140.933	30.016	199.58	-0.029	-2.955	2.204
18	3	N47	-28.405	922.379	527.852	0	0	0
19	3	N49	-3308.192	-2828.807	1957.006	-0.232	-0.119	-1.493
20	3	N95	1753.637	3683.362	-1012.645	0	0	0
21	3	N97	-785.754	112.986	804.406	1.542	3.224	1.134
22	3	N143	-344.971	750.715	-250.619	0	0	0
23	3	Totals:	-3854.618	2670.652	2225.58			
24	3	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
25	4	N1	-1164.833	-1392.319	-1592.959	0.662	-2.944	2.104
26	4	N47	-28.996	2361.98	1321.847	0	0	0
27	4	N49	-3489.588	-2824.622	1223.367	-1.308	1.974	-0.871
28	4	N95	1751.114	3681.638	-1030.414	0	0	0
29	4	N97	-1469.142	695.781	125.987	1.731	3.029	0.901
30	4	N143	-94.47	148.181	-48.222	0	0	0
31	4	Totals:	-4495.915	2670.639	-0.393			
32	4	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
33	5	N1	-1168.83	-1817.08	-2461.844	0.828	-3.051	2.209
34	5	N47	-26.377	2783.847	1542.575	0	0	0
35	5	N49	-2231.298	-1573.542	228.545	-1.316	2.624	-0.115
36	5	N95	1144.522	2419.323	-692.058	0	0	0
37	5	N97	-1858.101	1655.969	-1099.796	0.986	1.032	-0.381
38	5	N143	315.084	-797.842	274.081	0	0	0
39	5	Totals:	-3825.001	2670.675	-2208.496			
40	5	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
41	6	N1	-855.924	-2437.04	-3520.361	1.121	-2.336	1.716
42	6	N47	-16.616	3402.766	1874.594	0	0	0
43	6	N49	-1056.071	-537.151	-401.092	-1.019	2.487	0.336
44	6	N95	647.885	1374.449	-408.931	0	0	0
45	6	N97	-1100.227	1442.814	-1440.161	-0.175	-1.153	-1.211
46	6	N143	234.799	-575.124	178.769	0	0	0
47	6	Totals:	-2146.153	2670.712	-3717.182			
48	6	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
49	7	N1	-22.082	-3124.402	-4375.23	1.475	-0.105	0.259
50	7	N47	0.142	4099.685	2259.595	0	0	0
51	7	N49	-346.317	1.466	-863.314	-1.026	2.645	0.663
52	7	N95	405.353	845.503	-267.01	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
53	7	N97	248.942	171.234	-726.754	-1.014	-2.059	-1.048
54	7	N143	-285.919	677.237	-274.782	0	0	0
55	7	Totals:	0.12	2670.723	-4247.495			
56	7	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
57	8	N1	811.975	-3029.391	-4051.808	1.435	2.141	-1.196
58	8	N47	16.363	4018.201	2221.352	0	0	0
59	8	N49	518.924	559.648	-1163.846	-0.685	2.18	0.802
60	8	N95	159.66	302.573	-114.344	0	0	0
61	8	N97	1452.903	-1075.246	67.786	-1.655	-2.507	-0.733
62	8	N143	-796.282	1894.949	-706.721	0	0	0
63	8	Totals:	2163.544	2670.733	-3747.581			
64	8	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
65	9	N1	1142.009	-1351.021	-2011.912	0.588	2.945	-1.501
66	9	N47	26.948	2324.158	1283.602	0	0	0
67	9	N49	1903.372	1625.478	-1144.969	0.662	0.118	0.666
68	9	N95	-349.131	-773.87	201.532	0	0	0
69	9	N97	2006.498	-1258.916	217.139	-2.216	-3.218	-1.085
70	9	N143	-875.021	2104.942	-771.026	0	0	0
71	9	Totals:	3854.675	2670.77	-2225.635			
72	9	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
73	10	N1	1160.033	-131.953	-410.632	0.003	2.936	-1.452
74	10	N47	30.312	1089.836	605.232	0	0	0
75	10	N49	1983.819	1490.078	-345.439	1.712	-2.019	-0.02
76	10	N95	-278.747	-636.352	183.91	0	0	0
77	10	N97	2790.615	-1995.49	992.9	-2.393	-2.982	-0.736
78	10	N143	-1189.969	2854.66	-1025.747	0	0	0
79	10	Totals:	4496.064	2670.779	0.225			
80	10	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
81	11	N1	1166.579	537.505	687.615	-0.291	3.063	-1.5
82	11	N47	28.921	415.396	242.295	0	0.001	0
83	11	N49	860.562	404.655	568.036	1.772	-2.652	-0.706
84	11	N95	246.975	461.888	-109.19	0	0	0
85	11	N97	3025.63	-2728.802	2089.037	-1.637	-0.998	0.399
86	11	N143	-1503.637	3580.106	-1269.321	0	0	0
87	11	Totals:	3825.03	2670.748	2208.471			
88	11	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
89	12	N1	854.416	1165.487	1751.828	-0.587	2.356	-1.006
90	12	N47	19.613	-213.334	-95.121	0	0	0
91	12	N49	-321.074	-640.782	1201.837	1.461	-2.501	-1.154
92	12	N95	746.202	1514.212	-396.098	0	0	0
93	12	N97	2275.039	-2528.002	2436.865	-0.484	1.165	1.231
94	12	N143	-1428.01	3373.13	-1182.157	0	0	0
95	12	Totals:	2146.186	2670.711	3717.154			
96	12	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
97	13	N1	0.964	-741.143	-987.576	0.284	0.014	0.684
98	13	N47	-0.011	2671.526	1495.19	0	0	0
99	13	N49	-1472.647	-1343.797	1125.063	0.806	-0.681	-1.129
100	13	N95	1458.881	3025.26	-834.379	0	0	0
101	13	N97	1299.505	-1339.213	1342.008	-0.41	0.551	0.404
102	13	N143	-1286.645	3016.557	-1071.482	0	0	0
103	13	Totals:	0.047	5289.19	1068.823			
104	13	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
105	14	N1	-206.564	-833.86	-1126.089	0.33	-0.542	1.027
106	14	N47	-4.096	2763.097	1545.294	0	0	0
107	14	N49	-1743.628	-1540.431	1217.549	0.687	-0.529	-1.179

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
108	14	N95	1549.317	3219.954	-889.863	0	0	0
109	14	N97	1052.08	-1107.213	1187.301	-0.273	0.662	0.36
110	14	N143	-1192.077	2787.639	-990.151	0	0	0
111	14	Totals:	-544.969	5289.186	944.04			
112	14	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
113	15	N1	-295.149	-1158.199	-1539.406	0.492	-0.754	1.131
114	15	N47	-6.769	3089.634	1725.63	0	0	0
115	15	N49	-2022.914	-1728.102	1174.627	0.386	-0.017	-1.118
116	15	N95	1637.545	3407.545	-945.461	0	0	0
117	15	N97	851.236	-968.968	1087.519	-0.131	0.818	0.386
118	15	N143	-1134.622	2647.268	-942.489	0	0	0
119	15	Totals:	-970.674	5289.179	560.42			
120	15	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
121	16	N1	-306.699	-1454.692	-1934.54	0.633	-0.768	1.121
122	16	N47	-7.606	3389.186	1890.021	0	0	0
123	16	N49	-2040.728	-1693.612	975.465	0.134	0.507	-0.952
124	16	N95	1619.96	3372.962	-939.916	0	0	0
125	16	N97	660.477	-785.659	888.095	-0.099	0.741	0.289
126	16	N143	-1055.927	2460.992	-879.252	0	0	0
127	16	Totals:	-1130.523	5289.177	-0.126			
128	16	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
129	17	N1	-299.606	-1611.06	-2201.69	0.701	-0.775	1.128
130	17	N47	-6.625	3545.864	1973.921	0	0	0
131	17	N49	-1769.96	-1431.104	748.408	0.12	0.677	-0.786
132	17	N95	1492.416	3108.011	-869.536	0	0	0
133	17	N97	596.465	-593.653	608.992	-0.285	0.242	0.002
134	17	N143	-973.391	2271.128	-814.883	0	0	0
135	17	Totals:	-960.701	5289.185	-554.787			
136	17	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
137	18	N1	-210.511	-1780.126	-2472.21	0.781	-0.571	0.993
138	18	N47	-3.88	3714.723	2065.433	0	0	0
139	18	N49	-1492.109	-1190.954	594.386	0.187	0.655	-0.681
140	18	N95	1377.615	2865.984	-804.421	0	0	0
141	18	N97	781.692	-642.153	518.986	-0.568	-0.304	-0.203
142	18	N143	-992.006	2321.719	-836.25	0	0	0
143	18	Totals:	-539.198	5289.194	-934.075			
144	18	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
145	19	N1	-1.55	-1932.717	-2661.847	0.859	-0.016	0.628
146	19	N47	0.019	3869.135	2150.95	0	0	0
147	19	N49	-1294.177	-1040.257	473.747	0.204	0.677	-0.6
148	19	N95	1309.045	2716.738	-763.775	0	0	0
149	19	N97	1090.908	-915.825	666.733	-0.769	-0.546	-0.185
150	19	N143	-1104.174	2592.124	-934.77	0	0	0
151	19	Totals:	0.072	5289.198	-1068.961			
152	19	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
153	20	N1	206.22	-1847.147	-2529.834	0.817	0.539	0.283
154	20	N47	3.903	3785.117	2105.095	0	0	0
155	20	N49	-1028.281	-849.435	383.864	0.321	0.526	-0.553
156	20	N95	1221.455	2527.921	-709.998	0	0	0
157	20	N97	1343.414	-1154.829	825.084	-0.907	-0.657	-0.138
158	20	N143	-1201.619	2827.575	-1018.392	0	0	0
159	20	Totals:	545.091	5289.202	-944.182			
160	20	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
161	21	N1	295.183	-1517.429	-2111.45	0.652	0.753	0.18
162	21	N47	6.674	3453.258	1921.746	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
163	21	N49	-744.293	-656.289	424.805	0.626	0.012	-0.613
164	21	N95	1130.42	2334.43	-652.636	0	0	0
165	21	N97	1538.744	-1285.307	920.29	-1.046	-0.813	-0.166
166	21	N143	-1255.935	2960.546	-1063.313	0	0	0
167	21	Totals:	970.792	5289.209	-560.558			
168	21	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
169	22	N1	306.546	-1227.348	-1722.31	0.514	0.768	0.189
170	22	N47	7.669	3160.146	1760.981	0	0	0
171	22	N49	-729.639	-694.999	626.069	0.877	-0.514	-0.781
172	22	N95	1150.229	2373.386	-659.249	0	0	0
173	22	N97	1732.289	-1472.87	1122.454	-1.078	-0.733	-0.066
174	22	N143	-1336.45	3150.896	-1127.961	0	0	0
175	22	Totals:	1130.644	5289.21	-0.015			
176	22	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
177	23	N1	299.409	-1062.086	-1446.884	0.442	0.775	0.183
178	23	N47	6.775	2994.256	1671.895	0	0	0
179	23	N49	-995.489	-951.489	850.153	0.893	-0.683	-0.944
180	23	N95	1274.87	2632.479	-728.031	0	0	0
181	23	N97	1790.694	-1656.622	1396.992	-0.891	-0.235	0.216
182	23	N143	-1415.442	3332.665	-1189.475	0	0	0
183	23	Totals:	960.818	5289.203	554.651			
184	23	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
185	24	N1	210.217	-892.415	-1175.926	0.362	0.571	0.318
186	24	N47	4.059	2824.706	1580.003	0	0	0
187	24	N49	-1273.425	-1191.781	1004.179	0.825	-0.66	-1.049
188	24	N95	1389.662	2874.613	-793.277	0	0	0
189	24	N97	1605.908	-1608.949	1487.559	-0.609	0.31	0.421
190	24	N143	-1397.106	3283.018	-1168.6	0	0	0
191	24	Totals:	539.316	5289.193	933.938			
192	24	COG (ft):	X: 0.111	Y: 1.631	Z: -2.479			
193	25	N1	0.754	-1038.848	-1412.081	0.422	0.004	1.385
194	25	N47	-0.004	2749.059	1542.481	0	0.001	0
195	25	N49	-736.872	-663.991	492.436	0.237	-0.167	-0.463
196	25	N95	733.867	1519.839	-421.684	0	0	0
197	25	N97	623.3	-600.019	583.248	-0.258	0.132	0.109
198	25	N143	-621.016	1454.665	-518.965	0	0	0
199	25	Totals:	0.029	3420.705	265.435			
200	25	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
201	26	N1	-51.641	-1060.363	-1446.751	0.433	-0.138	1.47
202	26	N47	-1.078	2770.261	1553.946	0	0.001	0
203	26	N49	-801.723	-711.495	516.774	0.211	-0.135	-0.477
204	26	N95	755.535	1566.729	-434.895	0	0	0
205	26	N97	559.309	-537.86	542.418	-0.221	0.159	0.097
206	26	N143	-595.578	1393.432	-497.304	0	0	0
207	26	Totals:	-135.176	3420.704	234.188			
208	26	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
209	27	N1	-71.743	-1149.723	-1559.782	0.478	-0.186	1.494
210	27	N47	-1.647	2860.387	1603.678	0	0	0
211	27	N49	-876.743	-764.605	509.969	0.133	-0.01	-0.464
212	27	N95	780.474	1619.873	-450.613	0	0	0
213	27	N97	512.332	-509.042	523.117	-0.181	0.205	0.111
214	27	N143	-583.555	1363.812	-487.293	0	0	0
215	27	Totals:	-240.883	3420.702	139.075			
216	27	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
217	28	N1	-73.073	-1229.942	-1663.674	0.516	-0.185	1.491

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
218	28	N47	-1.773	2941.548	1648.344	0	0	0
219	28	N49	-883.635	-758.618	461.217	0.067	0.123	-0.423
220	28	N95	777.383	1613.851	-450.142	0	0	0
221	28	N97	465.267	-465.931	476.575	-0.17	0.191	0.092
222	28	N143	-565.13	1319.793	-472.366	0	0	0
223	28	Totals:	-280.963	3420.701	-0.046			
224	28	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
225	29	N1	-73.435	-1266.619	-1727.488	0.532	-0.193	1.495
226	29	N47	-1.633	2978.299	1667.99	0	0	0
227	29	N49	-810.635	-687.399	402.498	0.065	0.162	-0.378
228	29	N95	742.9	1541.933	-430.929	0	0	0
229	29	N97	447.175	-415.109	405.295	-0.217	0.067	0.017
230	29	N143	-543.403	1269.599	-455.428	0	0	0
231	29	Totals:	-239.031	3420.703	-138.062			
232	29	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
233	30	N1	-53.866	-1305.158	-1793.387	0.55	-0.148	1.464
234	30	N47	-1.056	3016.765	1688.618	0	0.001	0
235	30	N49	-736.878	-622.185	362.933	0.084	0.154	-0.35
236	30	N95	711.725	1476.289	-413.089	0	0	0
237	30	N97	494.125	-427.75	383.601	-0.29	-0.069	-0.035
238	30	N143	-548.151	1282.746	-461.033	0	0	0
239	30	Totals:	-134.101	3420.706	-232.356			
240	30	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
241	31	N1	-1.431	-1346.584	-1845.348	0.572	-0.007	1.373
242	31	N47	0.008	3058.756	1711.796	0	0.001	0
243	31	N49	-691.162	-587.073	333.664	0.085	0.162	-0.33
244	31	N95	695.846	1441.723	-403.769	0	0	0
245	31	N97	576.129	-504.028	426.438	-0.341	-0.125	-0.026
246	31	N143	-579.35	1357.913	-488.272	0	0	0
247	31	Totals:	0.04	3420.706	-265.491			
248	31	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
249	32	N1	50.976	-1325.721	-1811.277	0.561	0.135	1.287
250	32	N47	1.069	3038.24	1700.717	0	0.001	0
251	32	N49	-626.784	-540.11	309.564	0.111	0.131	-0.316
252	32	N95	674.444	1395.382	-390.716	0	0	0
253	32	N97	640.598	-566.845	467.619	-0.378	-0.152	-0.014
254	32	N143	-605.057	1419.762	-510.151	0	0	0
255	32	Totals:	135.245	3420.707	-234.245			
256	32	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
257	33	N1	71.109	-1235.748	-1697.672	0.516	0.183	1.263
258	33	N47	1.645	2947.498	1650.637	0	0.001	0
259	33	N49	-551.235	-486.388	316.138	0.188	0.005	-0.329
260	33	N95	649.195	1341.593	-374.81	0	0	0
261	33	N97	686.984	-594.848	486.45	-0.417	-0.198	-0.028
262	33	N143	-616.747	1448.602	-519.876	0	0	0
263	33	Totals:	240.952	3420.709	-139.132			
264	33	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
265	34	N1	72.418	-1156.153	-1594.366	0.478	0.182	1.266
266	34	N47	1.781	2866.965	1606.325	0	0.001	0
267	34	N49	-544.639	-492.765	365.087	0.254	-0.127	-0.371
268	34	N95	652.49	1348.021	-375.385	0	0	0
269	34	N97	734.344	-638.413	533.286	-0.428	-0.184	-0.008
270	34	N143	-635.363	1493.056	-534.957	0	0	0
271	34	Totals:	281.032	3420.71	-0.011			
272	34	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
273	35	N1	72.788	-1118.692	-1529.818	0.462	0.19	1.262
274	35	N47	1.647	2829.404	1586.222	0	0.001	0
275	35	N49	-617.209	-563.46	423.549	0.257	-0.167	-0.415
276	35	N95	686.718	1419.423	-394.456	0	0	0
277	35	N97	751.932	-688.495	604.147	-0.381	-0.06	0.066
278	35	N143	-656.776	1542.528	-551.638	0	0	0
279	35	Totals:	239.1	3420.708	138.006			
280	35	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
281	36	N1	53.222	-1080.118	-1463.894	0.444	0.145	1.293
282	36	N47	1.071	2790.896	1565.571	0	0.001	0
283	36	N49	-690.991	-628.708	463.13	0.238	-0.158	-0.443
284	36	N95	717.903	1485.096	-412.311	0	0	0
285	36	N97	705.009	-675.9	625.868	-0.309	0.076	0.118
286	36	N143	-652.045	1529.44	-546.064	0	0	0
287	36	Totals:	134.17	3420.706	232.3			
288	36	COG (ft):	X: 0.419	Y: 1.236	Z: -1.466			
289	37	N1	2.458	-1082.981	-1433.251	0.446	0.011	-3.223
290	37	N47	-0.011	2792.171	1566.768	0	-0.001	-0.001
291	37	N49	-707.822	-597.264	474.222	0.438	-0.163	-0.539
292	37	N95	701.466	1453.414	-402.971	0	0	0
293	37	N97	683.188	-734.172	628.41	-0.505	0.121	-0.006
294	37	N143	-679.237	1589.587	-567.817	0	0	0
295	37	Totals:	0.043	3420.755	265.361			
296	37	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
297	38	N1	-50.074	-1102.885	-1466.313	0.455	-0.131	-3.135
298	38	N47	-1.083	2811.492	1577.173	0	-0.001	-0.001
299	38	N49	-771.757	-643.598	497.913	0.411	-0.132	-0.551
300	38	N95	722.57	1499.148	-415.856	0	0	0
301	38	N97	618.696	-671.106	587.119	-0.469	0.148	-0.019
302	38	N143	-653.516	1527.703	-545.921	0	0	0
303	38	Totals:	-135.164	3420.754	234.116			
304	38	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
305	39	N1	-70.014	-1192.918	-1579.989	0.501	-0.179	-3.115
306	39	N47	-1.652	2902.403	1627.348	0	-0.001	-0.001
307	39	N49	-847.441	-697.452	491.514	0.333	-0.006	-0.538
308	39	N95	747.99	1553.283	-431.856	0	0	0
309	39	N97	571.782	-642.749	567.935	-0.428	0.193	-0.004
310	39	N143	-641.536	1498.186	-535.95	0	0	0
311	39	Totals:	-240.87	3420.752	139.002			
312	39	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
313	40	N1	-71.185	-1273.979	-1684.747	0.54	-0.178	-3.123
314	40	N47	-1.779	2984.68	1672.643	0	-0.001	-0.001
315	40	N49	-854.969	-692.19	443.114	0.266	0.127	-0.497
316	40	N95	745.346	1548.18	-431.646	0	0	0
317	40	N97	524.824	-600.282	521.603	-0.415	0.18	-0.021
318	40	N143	-623.186	1454.342	-521.085	0	0	0
319	40	Totals:	-280.949	3420.751	-0.12			
320	40	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
321	41	N1	-71.678	-1309.427	-1747.472	0.555	-0.186	-3.117
322	41	N47	-1.638	3020.353	1691.682	0	-0.001	-0.001
323	41	N49	-780.819	-619.589	383.603	0.264	0.167	-0.452
324	41	N95	710.108	1474.713	-411.998	0	0	0
325	41	N97	506.166	-548.738	449.937	-0.462	0.056	-0.096
326	41	N143	-601.157	1403.44	-503.886	0	0	0
327	41	Totals:	-239.018	3420.753	-138.135			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
328	41	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
329	42	N1	-52.224	-1347.179	-1812.71	0.573	-0.142	-3.147
330	42	N47	-1.061	3058.226	1711.977	0	-0.001	-0.001
331	42	N49	-706.039	-553.199	343.414	0.284	0.158	-0.423
332	42	N95	678.24	1407.648	-393.758	0	0	0
333	42	N97	552.654	-560.746	427.925	-0.534	-0.08	-0.148
334	42	N143	-605.658	1416.006	-509.275	0	0	0
335	42	Totals:	-134.089	3420.756	-232.428			
336	42	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
337	43	N1	0.377	-1390.287	-1866.375	0.595	0	-3.24
338	43	N47	-0.001	3102.284	1736.318	0	-0.001	-0.001
339	43	N49	-661.148	-519.156	314.768	0.286	0.166	-0.404
340	43	N95	662.875	1374.136	-384.735	0	0	0
341	43	N97	635.015	-637.872	471.147	-0.584	-0.136	-0.137
342	43	N143	-637.066	1491.651	-536.687	0	0	0
343	43	Totals:	0.052	3420.756	-265.564			
344	43	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
345	44	N1	52.922	-1371.139	-1834.01	0.585	0.142	-3.328
346	44	N47	1.058	3083.761	1726.362	0	-0.001	-0.001
347	44	N49	-597.759	-473.45	291.353	0.312	0.135	-0.392
348	44	N95	642.082	1329.044	-372.034	0	0	0
349	44	N97	700.047	-701.692	512.84	-0.62	-0.163	-0.124
350	44	N143	-663.091	1554.233	-558.83	0	0	0
351	44	Totals:	135.259	3420.757	-234.319			
352	44	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
353	45	N1	72.89	-1280.398	-1719.671	0.54	0.19	-3.348
354	45	N47	1.634	2992.132	1675.782	0	-0.001	-0.001
355	45	N49	-521.484	-418.909	297.485	0.391	0.009	-0.404
356	45	N95	616.312	1274.183	-355.824	0	0	0
357	45	N97	746.323	-729.158	531.516	-0.66	-0.209	-0.14
358	45	N143	-674.711	1582.909	-568.493	0	0	0
359	45	Totals:	240.965	3420.759	-139.205			
360	45	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
361	46	N1	74.043	-1200.003	-1615.54	0.501	0.189	-3.341
362	46	N47	1.771	2910.527	1630.866	0	-0.001	-0.001
363	46	N49	-514.286	-424.603	346.103	0.457	-0.124	-0.446
364	46	N95	619.183	1279.738	-356.149	0	0	0
365	46	N97	793.596	-772.113	578.159	-0.673	-0.195	-0.121
366	46	N143	-693.264	1627.214	-583.521	0	0	0
367	46	Totals:	281.044	3420.76	-0.083			
368	46	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
369	47	N1	74.541	-1163.71	-1552.023	0.486	0.197	-3.346
370	47	N47	1.636	2873.979	1611.334	0	-0.001	-0.001
371	47	N49	-587.965	-496.628	405.33	0.46	-0.164	-0.491
372	47	N95	654.139	1352.632	-375.64	0	0	0
373	47	N97	811.725	-822.874	649.381	-0.627	-0.071	-0.048
374	47	N143	-714.963	1677.359	-600.451	0	0	0
375	47	Totals:	239.113	3420.758	137.933			
376	47	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
377	48	N1	55.092	-1125.967	-1486.8	0.468	0.152	-3.316
378	48	N47	1.061	2836.109	1591.042	0	-0.001	-0.001
379	48	N49	-662.797	-563.086	445.553	0.44	-0.155	-0.519
380	48	N95	686.033	1419.76	-393.904	0	0	0
381	48	N97	765.285	-810.94	671.436	-0.555	0.065	0.005
382	48	N143	-710.491	1664.879	-595.102	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
383	48	Totals:	134.183	3420.755	232.225			
384	48	COG (ft):	X: -1.07	Y: 1.236	Z: -1.466			
385	49	N1	0.833	-952.322	-1279.699	0.402	0.003	-1.764
386	49	N47	-0.003	2288.194	1280.275	0	-0.001	0
387	49	N49	-693.006	-577.992	399.915	0.302	0	-0.449
388	49	N95	691.762	1433.436	-399.389	0	0	0
389	49	N97	638.764	-640.219	534.432	-0.46	-0.004	-0.032
390	49	N143	-638.311	1494.641	-535.604	0	0	0
391	49	Totals:	0.039	3045.738	-0.07			
392	49	COG (ft):	X: -0.668	Y: 1.389	Z: -1.918			
393	50	N1	-0.041	-931.531	-1269.67	0.391	0	0.342
394	50	N47	0	2267.665	1268.71	0	0	0
395	50	N49	-707.066	-610.346	408.833	0.205	-0.002	-0.413
396	50	N95	707.467	1465.63	-408.457	0	0	0
397	50	N97	608.932	-573.025	511.779	-0.338	0.002	0.024
398	50	N143	-609.259	1427.319	-511.23	0	0	0
399	50	Totals:	0.033	3045.712	-0.035			
400	50	COG (ft):	X: 0.102	Y: 1.389	Z: -1.918			
401	51	N1	-0.054	-770.118	-1056.523	0.326	0	0.401
402	51	N47	0	1891.446	1055.341	0	0	0
403	51	N49	-824.207	-710.626	476.586	0.243	-0.002	-0.483
404	51	N95	824.681	1708.455	-476.131	0	0	0
405	51	N97	710.238	-668.1	596.981	-0.392	0.002	0.029
406	51	N143	-710.624	1664.773	-596.286	0	0	0
407	51	Totals:	0.034	3115.829	-0.032			
408	51	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
409	52	N1	0.706	-584.953	-793.41	0.241	0.003	0.358
410	52	N47	-0.002	1577.64	881.001	0	0	0
411	52	N49	-750.882	-666.849	501.237	0.287	-0.167	-0.492
412	52	N95	748.936	1551.245	-431.221	0	0	0
413	52	N97	651.74	-640.079	611.335	-0.303	0.14	0.096
414	52	N143	-650.467	1523.441	-544.622	0	0	0
415	52	Totals:	0.031	2760.446	224.321			
416	52	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
417	53	N1	-37.143	-604.458	-818.734	0.251	-0.099	0.414
418	53	N47	-0.586	1597.234	891.866	0	0	0
419	53	N49	-804.369	-702.27	505.183	0.248	-0.101	-0.49
420	53	N95	765.516	1586.512	-441.295	0	0	0
421	53	N97	598.077	-599.535	587.391	-0.266	0.186	0.099
422	53	N143	-633.628	1482.963	-530.154	0	0	0
423	53	Totals:	-112.133	2760.445	194.256			
424	53	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
425	54	N1	-65.053	-644.747	-875.436	0.271	-0.175	0.454
426	54	N47	-1.011	1637.785	914.239	0	0	0
427	54	N49	-837.947	-718.161	486.889	0.2	-0.008	-0.472
428	54	N95	772.721	1602.19	-446.136	0	0	0
429	54	N97	552.726	-556.882	547.745	-0.251	0.183	0.083
430	54	N143	-615.673	1440.259	-515.158	0	0	0
431	54	Totals:	-194.237	2760.444	112.142			
432	54	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
433	55	N1	-75.551	-695.019	-948.322	0.295	-0.204	0.467
434	55	N47	-1.163	1688.419	942.12	0	0	0
435	55	N49	-842.629	-710.272	451.254	0.156	0.086	-0.442
436	55	N95	768.624	1594.09	-444.45	0	0	0
437	55	N97	527.835	-523.548	503.019	-0.261	0.131	0.052

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
438	55	N143	-601.414	1406.774	-503.655	0	0	0
439	55	Totals:	-224.298	2760.444	-0.033			
440	55	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
441	56	N1	-65.815	-741.794	-1017.85	0.318	-0.179	0.45
442	56	N47	-1.003	1735.56	968.033	0	0	0
443	56	N49	-817.156	-680.714	407.828	0.128	0.157	-0.408
444	56	N95	754.319	1564.375	-436.69	0	0	0
445	56	N97	530.097	-508.488	465.207	-0.295	0.045	0.013
446	56	N143	-594.682	1391.505	-498.735	0	0	0
447	56	Totals:	-194.239	2760.445	-112.207			
448	56	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
449	57	N1	-38.458	-772.539	-1065.39	0.333	-0.105	0.408
450	57	N47	-0.577	1766.581	985.038	0	0	0
451	57	N49	-768.367	-637.415	368.248	0.123	0.185	-0.38
452	57	N95	733.642	1521.013	-424.935	0	0	0
453	57	N97	558.904	-515.738	444.439	-0.342	-0.053	-0.022
454	57	N143	-597.28	1398.544	-501.717	0	0	0
455	57	Totals:	-112.136	2760.446	-194.318			
456	57	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
457	58	N1	-0.805	-779.031	-1078.221	0.336	-0.004	0.351
458	58	N47	0.002	1773.19	988.589	0	0	0
459	58	N49	-709.32	-591.962	343.111	0.144	0.163	-0.364
460	58	N95	712.126	1475.606	-412.331	0	0	0
461	58	N97	606.536	-543.35	446.269	-0.391	-0.136	-0.044
462	58	N143	-608.511	1425.996	-511.796	0	0	0
463	58	Totals:	0.028	2760.448	-224.378			
464	58	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
465	59	N1	37.051	-759.532	-1052.901	0.326	0.098	0.296
466	59	N47	0.581	1753.615	977.734	0	0	0
467	59	N49	-655.836	-556.537	339.161	0.183	0.097	-0.365
468	59	N95	695.539	1440.326	-402.254	0	0	0
469	59	N97	660.217	-583.913	470.211	-0.429	-0.182	-0.048
470	59	N143	-625.36	1466.49	-526.266	0	0	0
471	59	Totals:	112.192	2760.449	-194.313			
472	59	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
473	60	N1	64.961	-719.273	-996.225	0.306	0.174	0.256
474	60	N47	1.007	1713.105	955.384	0	0	0
475	60	N49	-622.246	-540.631	357.451	0.231	0.004	-0.384
476	60	N95	688.328	1424.629	-397.404	0	0	0
477	60	N97	705.553	-626.545	509.842	-0.444	-0.179	-0.032
478	60	N143	-643.305	1509.165	-541.247	0	0	0
479	60	Totals:	194.296	2760.45	-112.2			
480	60	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
481	61	N1	75.452	-669.024	-923.361	0.282	0.204	0.243
482	61	N47	1.165	1662.491	927.515	0	0	0
483	61	N49	-617.549	-548.51	393.084	0.275	-0.09	-0.414
484	61	N95	692.425	1432.726	-399.083	0	0	0
485	61	N97	730.41	-659.839	554.554	-0.433	-0.127	0
486	61	N143	-657.546	1542.605	-552.733	0	0	0
487	61	Totals:	224.357	2760.45	-0.024			
488	61	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
489	62	N1	65.709	-622.243	-853.829	0.259	0.178	0.259
490	62	N47	1.011	1615.332	901.591	0	0	0
491	62	N49	-643.018	-578.071	436.515	0.303	-0.161	-0.447
492	62	N95	706.737	1462.453	-406.847	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
493	62	N97	728.129	-674.88	592.369	-0.4	-0.041	0.038
494	62	N143	-664.27	1557.858	-557.65	0	0	0
495	62	Totals:	194.298	2760.449	112.15			
496	62	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
497	63	N1	38.352	-591.469	-806.263	0.244	0.105	0.302
498	63	N47	0.584	1584.271	884.564	0	0	0
499	63	N49	-691.819	-621.386	476.1	0.308	-0.189	-0.476
500	63	N95	727.421	1505.834	-418.61	0	0	0
501	63	N97	699.338	-667.651	613.153	-0.352	0.057	0.073
502	63	N143	-661.68	1550.848	-554.683	0	0	0
503	63	Totals:	112.195	2760.448	194.26			
504	63	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
505	64	N1	0.704	-375.55	-506.123	0.152	0.003	0.249
506	64	N47	-0.001	1063.357	594.045	0	0	0
507	64	N49	-526.663	-473.358	371.542	0.221	-0.166	-0.36
508	64	N95	524.582	1086.455	-301.658	0	0	0
509	64	N97	458.565	-458.187	448.915	-0.196	0.139	0.087
510	64	N143	-457.165	1070.58	-382.392	0	0	0
511	64	Totals:	0.022	1913.296	224.33			
512	64	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
513	65	N1	-37.118	-394.955	-531.368	0.162	-0.099	0.305
514	65	N47	-0.604	1082.844	604.849	0	0	0
515	65	N49	-580.094	-508.673	375.464	0.181	-0.1	-0.358
516	65	N95	541.107	1121.621	-311.713	0	0	0
517	65	N97	404.938	-417.734	424.984	-0.159	0.185	0.091
518	65	N143	-440.37	1030.192	-367.952	0	0	0
519	65	Totals:	-112.142	1913.295	194.265			
520	65	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
521	66	N1	-65.003	-435.08	-587.956	0.182	-0.175	0.344
522	66	N47	-1.043	1123.229	627.128	0	0	0
523	66	N49	-613.632	-524.503	357.167	0.133	-0.007	-0.34
524	66	N95	548.277	1137.245	-316.551	0	0	0
525	66	N97	359.597	-375.147	385.344	-0.144	0.182	0.075
526	66	N143	-422.443	987.55	-352.98	0	0	0
527	66	Totals:	-194.246	1913.294	112.151			
528	66	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
529	67	N1	-75.485	-485.173	-660.725	0.207	-0.204	0.357
530	67	N47	-1.2	1173.685	654.907	0	0	0
531	67	N49	-618.3	-516.617	321.551	0.089	0.087	-0.31
532	67	N95	544.175	1129.15	-314.881	0	0	0
533	67	N97	334.69	-341.835	340.613	-0.155	0.13	0.044
534	67	N143	-408.187	954.083	-341.489	0	0	0
535	67	Totals:	-224.307	1913.294	-0.024			
536	67	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
537	68	N1	-65.745	-531.797	-730.163	0.229	-0.178	0.341
538	68	N47	-1.035	1220.68	680.737	0	0	0
539	68	N49	-592.844	-487.124	278.159	0.062	0.158	-0.276
540	68	N95	529.897	1099.501	-307.149	0	0	0
541	68	N97	336.911	-326.747	302.788	-0.188	0.044	0.005
542	68	N143	-401.431	938.782	-336.569	0	0	0
543	68	Totals:	-194.248	1913.295	-112.198			
544	68	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
545	69	N1	-38.398	-562.464	-777.665	0.244	-0.105	0.298
546	69	N47	-0.596	1251.629	697.7	0	0	0
547	69	N49	-544.098	-443.935	238.622	0.057	0.186	-0.248

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
548	69	N95	509.27	1056.246	-295.43	0	0	0
549	69	N97	365.665	-333.928	282.001	-0.236	-0.054	-0.03
550	69	N143	-403.988	945.749	-339.536	0	0	0
551	69	Totals:	-112.145	1913.297	-194.309			
552	69	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
553	70	N1	-0.766	-568.97	-790.521	0.247	-0.004	0.242
554	70	N47	0.002	1258.259	701.262	0	0	0
555	70	N49	-485.108	-398.609	213.524	0.078	0.164	-0.232
556	70	N95	487.816	1010.96	-282.857	0	0	0
557	70	N97	413.245	-361.449	283.814	-0.285	-0.137	-0.052
558	70	N143	-415.17	973.107	-349.591	0	0	0
559	70	Totals:	0.019	1913.298	-224.369			
560	70	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
561	71	N1	37.063	-549.574	-765.281	0.237	0.099	0.187
562	71	N47	0.599	1238.793	690.469	0	0	0
563	71	N49	-431.681	-363.291	209.598	0.117	0.098	-0.234
564	71	N95	471.285	975.782	-272.799	0	0	0
565	71	N97	466.891	-401.922	307.743	-0.322	-0.183	-0.056
566	71	N143	-431.974	1013.512	-364.034	0	0	0
567	71	Totals:	112.183	1913.3	-194.304			
568	71	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
569	72	N1	64.949	-509.478	-708.719	0.218	0.175	0.147
570	72	N47	1.038	1198.448	668.213	0	0	0
571	72	N49	-398.132	-347.446	227.891	0.165	0.005	-0.252
572	72	N95	464.109	960.14	-267.952	0	0	0
573	72	N97	512.216	-444.49	347.368	-0.337	-0.18	-0.039
574	72	N143	-449.893	1056.126	-378.992	0	0	0
575	72	Totals:	194.287	1913.3	-112.191			
576	72	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
577	73	N1	75.423	-459.408	-635.972	0.193	0.204	0.134
578	73	N47	1.202	1148.013	640.446	0	0	0
579	73	N49	-393.448	-355.321	263.506	0.209	-0.089	-0.282
580	73	N95	468.212	968.23	-269.616	0	0	0
581	73	N97	537.09	-477.761	392.085	-0.326	-0.128	-0.008
582	73	N143	-464.131	1089.548	-390.465	0	0	0
583	73	Totals:	224.348	1913.3	-0.015			
584	73	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
585	74	N1	65.676	-412.775	-566.528	0.17	0.178	0.15
586	74	N47	1.043	1100.997	614.605	0	0	0
587	74	N49	-418.899	-384.817	306.902	0.237	-0.16	-0.316
588	74	N95	482.496	997.892	-277.35	0	0	0
589	74	N97	534.85	-492.828	429.913	-0.293	-0.041	0.03
590	74	N143	-470.876	1104.831	-395.382	0	0	0
591	74	Totals:	194.289	1913.299	112.159			
592	74	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			
593	75	N1	38.329	-382.079	-519	0.155	0.105	0.193
594	75	N47	0.603	1070.007	597.619	0	0	0
595	75	N49	-467.658	-428.021	346.444	0.241	-0.188	-0.344
596	75	N95	503.128	1041.165	-289.079	0	0	0
597	75	N97	506.111	-485.667	450.715	-0.245	0.056	0.065
598	75	N143	-468.328	1097.893	-392.429	0	0	0
599	75	Totals:	112.186	1913.298	194.269			
600	75	COG (ft):	X: 0.116	Y: 1.584	Z: -2.496			

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N1	max	1166.579	11	1811.252	1	2567.217	1	1.475	7	3.063	11	2.209	5
2		min	-1168.83	5	-3124.402	7	-4375.23	7	-0.92	1	-3.051	5	-3.348	45
3	N47	max	30.312	10	4099.685	7	2259.595	7	0	75	0.001	35	0	35
4		min	-28.996	4	-869.235	1	-456.826	1	0	1	-0.001	41	-0.001	41
5	N49	max	1983.819	10	1625.478	9	2083.339	2	1.772	11	2.645	7	0.802	8
6		min	-3489.588	4	-2828.807	3	-1163.846	8	-1.316	5	-2.652	11	-1.707	2
7	N95	max	1753.637	3	3683.362	3	201.532	9	0	5	0	5	0	11
8		min	-349.131	9	-773.87	9	-1030.414	4	0	11	0	11	0	5
9	N97	max	3025.63	11	1655.969	5	2436.865	12	1.731	4	3.224	3	1.231	12
10		min	-1858.101	5	-2728.802	11	-1440.161	6	-2.393	10	-3.218	9	-1.211	6
11	N143	max	315.084	5	3580.106	11	274.081	5	0	8	0	3	0	8
12		min	-1503.637	11	-797.842	5	-1269.321	11	0	3	0	8	0	3
13	Totals:	max	4496.064	10	5289.21	22	4247.427	1						
14		min	-4495.915	4	1913.294	66	-4247.495	7						

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

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*	Pnc [lb]	phi*	Pnt [lb]	phi*	Mn y-y [k-ft]	phi*	Mn z-z [k-ft]	Cb	Eqn
1	M1	HSS4X4X4	0.34	2.034	8	0.284	2.063	y	45	135171.43	139518	16.181	16.181	1.535	H1-1b					
2	M2	PIPE 4.0	0	0.75	20	0	0.75	5	92571.332	93240	10.631	10.631	1	H1-1b*						
3	M4	PIPE 3.0	0.679	6.25	8	0.451	6.25	8	28250.554	65205	5.749	5.749	1	H3-6						
4	MP1A	PIPE 2.0	0.349	5.167	1	0.103	5.167	10	14916.096	32130	1.872	1.872	1	H1-1b						
5	MP2A	PIPE 2.0	0.736	5.167	7	0.164	5.167	6	14916.096	32130	1.872	1.872	1	H1-1b						
6	MP3A	PIPE 2.0	0.621	5.167	7	0.068	5.167	8	14916.096	32130	1.872	1.872	1	H1-1b						
7	MP4A	PIPE 2.0	0.48	5.167	8	0.109	1.917	8	14916.096	32130	1.872	1.872	1	H1-1b						
8	M13	PIPE 2.0	0.346	4.427	43	0.124	7.813	7	6295.422	32130	1.872	1.872	1	H1-1b						
9	OVP	PIPE 2.0	0.173	3.188	4	0.016	3.188	4	20866.733	32130	1.872	1.872	1	H1-1b						
10	M23	LL2.5X2.5X3X3	0.105	0	7	0.006	4.16	y	42	44635.039	58320	3.954	2.55	1	H1-1b*					
11	M24	HSS4X4X4	0.32	2.034	4	0.178	2.034	y	2	135171.43	139518	16.181	16.181	1.534	H1-1b					
12	M25	PIPE 4.0	0	0.75	15	0	0.75	1	92571.332	93240	10.631	10.631	1	H1-1b*						
13	M26	PIPE 3.0	0.6	6.25	4	0.41	6.25	3	28250.554	65205	5.749	5.749	1	H3-6						
14	MP1C	PIPE 2.0	0.309	5.167	9	0.067	5.167	3	14916.096	32130	1.872	1.872	1	H1-1b						
15	MP2C	PIPE 2.0	0.661	5.167	9	0.172	5.167	2	14916.096	32130	1.872	1.872	1	H1-1b						
16	MP3C	PIPE 2.0	0.561	5.167	3	0.073	5.167	2	14916.096	32130	1.872	1.872	1	H1-1b						
17	MP4C	PIPE 2.0	0.434	5.167	10	0.084	1.917	4	14916.096	32130	1.872	1.872	1	H1-1b						
18	M36	PIPE 2.0	0.278	4.557	4	0.14	11.458	2	6295.422	32130	1.872	1.872	1	H1-1b						
19	M46	LL2.5X2.5X3X3	0.094	0	3	0.004	4.16	y	4	44635.039	58320	3.954	2.55	1	H1-1b*					
20	M47	HSS4X4X4	0.293	2.034	11	0.221	2.034	y	10	135171.43	139518	16.181	16.181	1.534	H1-1b					
21	M48	PIPE 4.0	0	0.75	16	0	0.75	9	92571.332	93240	10.631	10.631	1	H1-1b*						
22	M49	PIPE 3.0	0.553	6.25	5	0.408	6.25	11	28250.554	65205	5.749	5.749	1	H3-6						
23	MP1B	PIPE 2.0	0.297	5.417	5	0.104	5.417	11	14916.096	32130	1.872	1.872	1	H1-1b						
24	MP2B	PIPE 2.0	0.704	5.417	5	0.147	5.417	3	14916.096	32130	1.872	1.872	1	H1-1b						
25	MP3B	PIPE 2.0	0.574	5.417	5	0.084	5.417	10	14916.096	32130	1.872	1.872	1	H1-1b						
26	MP4B	PIPE 2.0	0.402	5.417	6	0.083	1.917	6	14916.096	32130	1.872	1.872	1	H1-1b						
27	M59	PIPE 2.0	0.232	4.557	12	0.163	11.979	11	6295.422	32130	1.872	1.872	1	H1-1b						
28	M69	LL2.5X2.5X3X3	0.092	0	11	0.004	4.16	z	3	44635.039	58320	3.954	2.55	1	H1-1b*					
29	M70	PIPE 2.0	0.009	0	8	0.192	2.353	11	30066.007	32130	1.872	1.872	1	H1-1b*						
30	M71	PIPE 2.0	0.005	0	6	0.163	2.315	2	30130.786	32130	1.872	1.872	1	H1-1b*						
31	M72	PIPE 2.0	0.008	2.846	4	0.146	2.846	6	29156.946	32130	1.872	1.872	1	H1-1b*						

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

Yes

Bolt Orientation

Parallel

Bolt Quantity per Reaction:

4

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

6

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

6

Bolt Type:

A325N

Bolt Diameter (in):

0.625

Required Tensile Strength / bolt (kips):

5.4

Required Shear Strength / bolt (kips):

1.9

Tensile Capacity / bolt (kips):

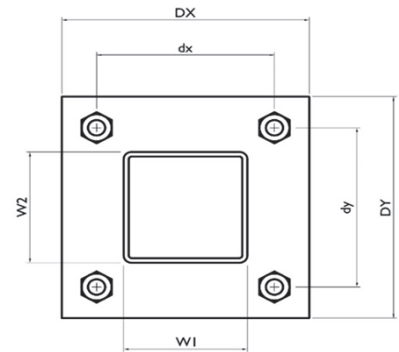
20.7

Shear Capacity / bolt (kips):

12.4

Bolt Overall Utilization:

26.2%



Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:

Rect Tube

Weld Stiffener Configuration:

Has Stiffeners

Plate Width, D_x (in):

8

Plate Height, D_y (in):

8

$W1$ (in):

4

$W2$ (in):

4

Member Thickness (in):

0

Stiffener location a_1 (in):

3

Stiffener location b_1 (in):

0.25

Stiffener location a_2 (in):

2

Stiffener location b_2 (in):

2

F_y (ksi, plate):

36

Plate Thickness (in):

0.75

Length of Yield Line, L_y (in):

4.60

Bolt Eccentricity, e (in):

0.88

M_u (kip-in):

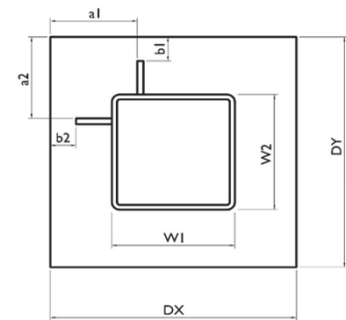
4.80

$\Phi * M_n$ (kip-in):

20.94

Plate Bending Utilization:

22.9%



Tower Connection Weld Checks

Weld Shape:
Weld Stiffener Configuration:
Stiffener Notch Present?
Stiffener Length, l (in):
Stiffener Spacing/Width, s (in):
Stiffener Notch Length, n (in):
Weld Size (1/16 in):
W1 (in):
W2 (in):
Weld Total Length (in):
 Z_x (in³/in):
 Z_y (in³/in):
 J_p (in⁴/in):
 c_x (in):
 c_y (in):
Required combined strength (kip/in):
Weld Capacity (kip/in):
Weld Utilization:

Yes
Rectangle
(2) Stiffeners on top/bottom
Yes
1.5
2
0.5
4
4
4
28.00
70.08
27.33
262.33
4
4
1.26
5.57
22.6%

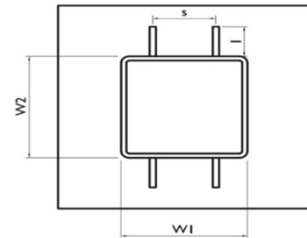


Exhibit F

Power Density Study



Non-Ionizing Radiation (NIER) Study

Site Number: 283424	Site Name: Watertown CT	Location: Watertown, Connecticut
Tenant: AT&T Mobility, T-Mobile, Verizon Wireless		



Prepared For: **American Tower, Inc. Woburn, Massachusetts**

June 20, 2025

72361 P-482427

Prepared By

Gautam J. Sopal

Tower Engineering Professionals

Approved By

TEP Engineering, PLLC

MCO.0904636



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RALEIGH, NORTH CAROLINA



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Non-Ionizing Electromagnetic Radiation (NIER) Study

283424 Watertown CT
Watertown, 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

<i>Site Number</i>	283424
<i>Site Name</i>	Watertown CT
<i>Address</i>	655 Bassett Rd., Watertown, Connecticut
<i>Co-ordinates</i>	41.657106, -73.136250
<i>Structure Type</i>	Stealth - Monopine
<i>Structure Height</i>	129 ft
<i>Tenants</i>	AT&T Mobility (AT&T), T-Mobile (TMO), Verizon Wireless (VZW)

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 monopine with a height of 6' above ground level was used, beyond 100' the MPE levels become *diminimus*. 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. Descriptions of RF signage can be found in Appendix 4, Barrier & Sign Types. A discussion regarding the FCC limits may be found in Appendix 5, Information Pertaining to MPE Studies. Prediction Models used in this study may be found in Appendix 6, MPE Standards Methodology.



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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 283424 Watertown CT RF NIER Study 06/17/2025.
- 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 following points:

Site Entrance

1. Site ID Sign (tower owner defined)
2. RF Information Sign (Green)

Tower Access Point

1. RF Exposure Sign (Red)

Alpha Sector

No additional mitigation is required.

Beta Sector

No additional mitigation is required.

Gamma Sector

No additional mitigation is required

COMPLIANCE DETERMINATION

With the above mitigation implemented, this installation **WILL BE** in compliance with current FCC MPE limits as described in FCC OET-65.



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Appendix 1 Site Photos



Aerial View of the Site



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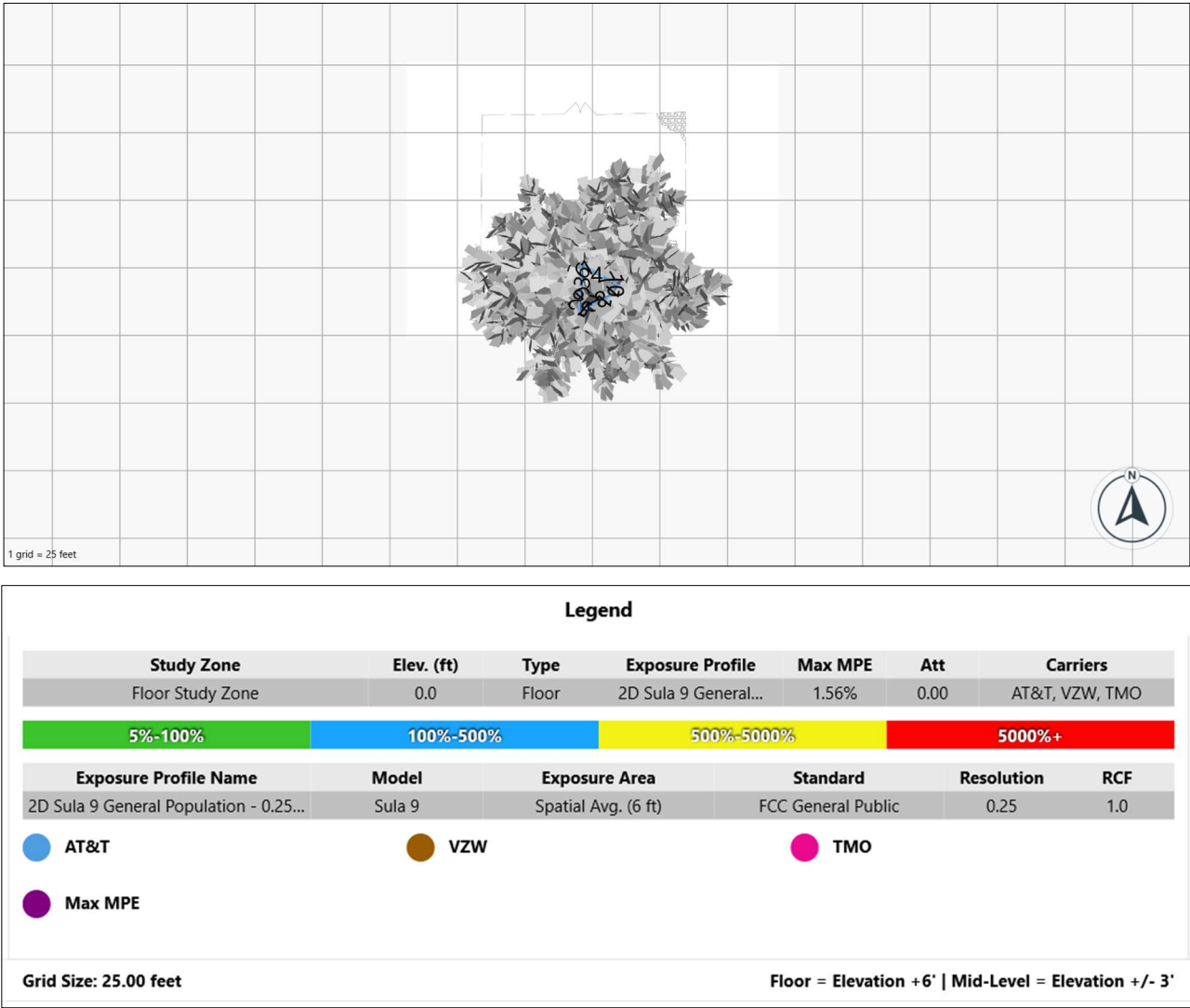
Appendix 2.1 Antenna Inventory

Ant #	Carrier	Manufacturer	Antenna Model	Az (deg)	TX (MHz)	RX (MHz)	EDT (deg)	MDT (deg)	Gain (dBi)	ERP (W)	Rad Ctr (ft)
1	AT&T	CCI	OPA65R-BU8D	030	728-746	704-716	2	0	15.3	11323	126
					2145-2155	1745-1755				12081	
					2170-2180	1770-1780				12081	
2	AT&T	CCI	OPA65R-BU8D	150	728-746	704-716	2	0	15.3	11323	126
					2145-2155	1745-1755				12081	
					2170-2180	1770-1780				12081	
3	AT&T	CCI	OPA65R-BU8D	270	728-746	704-716	2	0	15.3	11323	126
					2145-2155	1745-1755				12081	
					2170-2180	1770-1780				12081	
4	AT&T	CCI	DMP65R-BU8D	030	728-746	704-716	2	0	14.4	9862	126
					1930-1945	1745-1755				11018	
					1965-1990	1770-1780				11018	
					2145-2155	1850-1865				12081	
					2170-2180	1885-1910				12081	
5	AT&T	CCI	DMP65R-BU8D	150	728-746	704-716	2	0	14.4	9862	126
					1930-1945	1745-1755				11018	
					1965-1990	1770-1780				11018	
					2145-2155	1850-1865				12081	
					2170-2180	1885-1910				12081	
6	AT&T	CCI	DMP65R-BU8D	270	728-746	704-716	2	0	14.4	9862	126
					1930-1945	1745-1755				11018	
					1965-1990	1770-1780				11018	
					2145-2155	1850-1865				12081	
					2170-2180	1885-1910				12081	
7	AT&T	CCI	HPA-65R-BUU-H8	030	716-728	704-716	2	0	15.5	10326	126
					734-746	734-746				10326	
					880-893	835-848				12704	
					1930-1935	1850-1855				9378	
8	AT&T	CCI	HPA-65R-BUU-H8	150	716-728	704-716	2	0	15.5	10326	126
					734-746	734-746				10326	
					880-893	835-848				12704	
					1930-1935	1850-1855				9378	
9	AT&T	CCI	HPA-65R-BUU-H8	270	716-728	704-716	2	0	15.5	10326	126
					734-746	734-746				10326	
					880-893	835-848				12704	
					1930-1935	1850-1855				9378	
10	AT&T	Commscope	SBNH-1D6565C	030	869-890	824-845	0	0	15.8	9269	126
					890-894	845-849				11144	
11	AT&T	Commscope	SBNH-1D6565C	150	869-890	824-845	0	0	15.8	9269	126
					890-894	845-849				11144	

Appendix 2.2 Antenna Inventory

Ant #	Carrier	Manufacturer	Antenna Model	Az (deg)	TX (MHz)	RX (MHz)	EDT (deg)	MDT (deg)	Gain (dBi)	ERP (W)	Rad Ctr (ft)
12	AT&T	Commscope	SBNH-1D6565C	270	869-890	824-845	0	0	15.8	9269	126
					890-894	845-849				11144	
13	VZW	Commscope	JAHH-65B-R3B	080	746-757	776-787	2	0	14.26	3435	114
					869-880	824-835				4634	
					890-892	845-847				4634	
					1970-1975	1745-1755				12945	
					2145-2155	1890-1895				12945	
14	VZW	Commscope	JAHH-65B-R3B	190	746-757	776-787	2	0	14.26	3435	114
					869-880	824-835				4634	
					890-892	845-847				4634	
					1970-1975	1745-1755				12945	
					2145-2155	1890-1895				12945	
15	VZW	Commscope	JAHH-65B-R3B	330	746-757	776-787	2	0	14.26	3435	114
					869-880	824-835				4634	
					890-892	845-847				4634	
					1970-1975	1745-1755				12945	
					2145-2155	1890-1895				12945	
16	VZW	Commscope	JAHH-65B-R3B	080	746-757	776-787	2	0	14.26	3435	114
					869-880	824-835				4634	
					890-892	845-847				4634	
					1970-1975	1745-1755				12945	
					2145-2155	1890-1895				12945	
17	VZW	Commscope	JAHH-65B-R3B	190	746-757	776-787	2	0	14.26	3435	114
					869-880	824-835				4634	
					890-892	845-847				4634	
					1970-1975	1745-1755				12945	
					2145-2155	1890-1895				12945	
18	VZW	Commscope	JAHH-65B-R3B	330	746-757	776-787	2	0	14.26	3435	114
					869-880	824-835				4634	
					890-892	845-847				4634	
					1970-1975	1745-1755				12945	
					2145-2155	1890-1895				12945	
19	VZW	Samsung	MT6407-77A	080	3700-3980	3700-3980	0	0	18.3	10788	114
20	VZW	Samsung	MT6407-77A	190	3700-3980	3700-3980	0	0	18.3	10788	114
21	VZW	Samsung	MT6407-77A	330	3700-3980	3700-3980	0	0	18.3	10788	114
22	TMO	Ericsson	840590966	020	622-642	668-688	2	0	14.6	7889	104
					698-704	728-734				9269	
23	TMO	Ericsson	840590966	140	622-642	668-688	2	0	14.6	7889	104
					698-704	728-734				9269	
24	TMO	Ericsson	840590966	250	622-642	668-688	2	0	14.6	7889	104
					698-704	728-734				9269	

Appendix 3.1 MPE Limit Study General Population

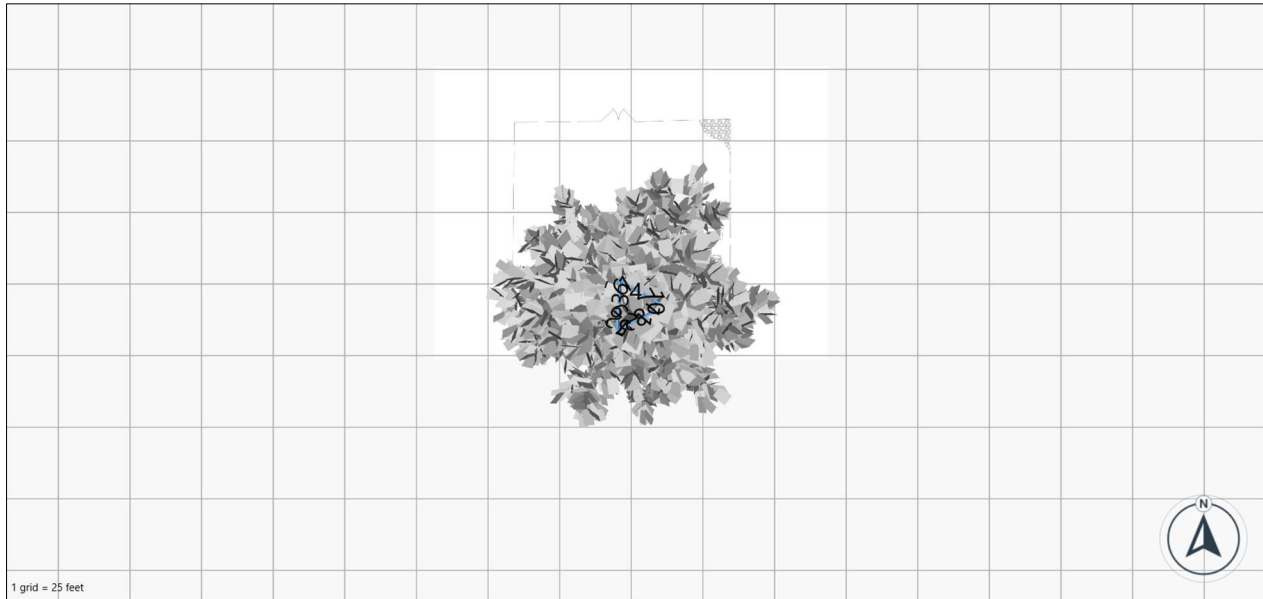




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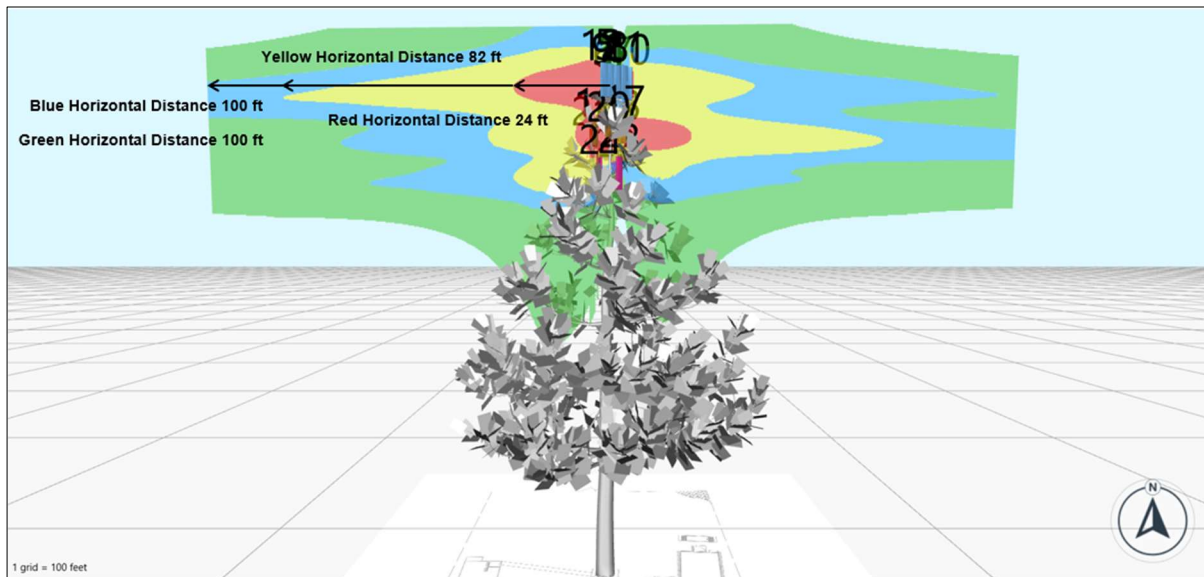
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Appendix 3.2 MPE Limit Study Occupational Limit



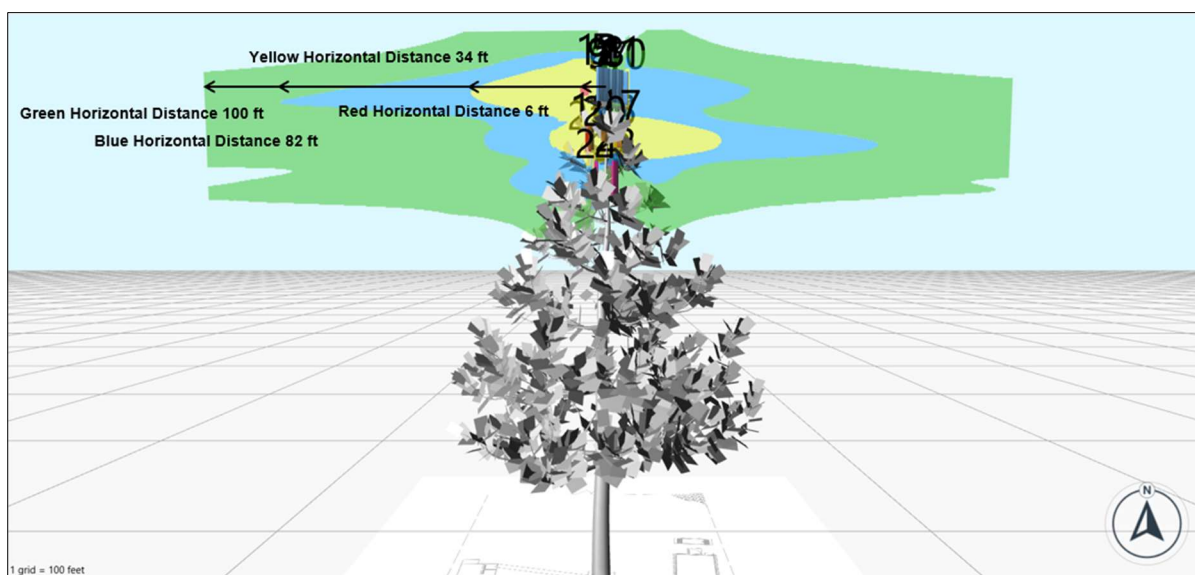
Legend						
Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att	Carriers
Floor Study Zone	0.0	Floor	2D Sula 9 Occupationa...	0.31%	0.00	AT&T, VZW, TMO
5%-100%	100%-500%		500%-5000%			5000%+
Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF	
2D Sula 9 Occupational - 0.25 Res	Sula 9	Spatial Avg. (6 ft)	FCC Occupational	0.25	1.0	
● AT&T	● VZW		● TMO			
● Max MPE						
Grid Size: 25.00 feet			Floor = Elevation + 6' Mid-Level = Elevation +/- 3'			

Appendix 3.3 MPE Limit Study General Population – Horizontal View



Legend						
Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att	Carriers
Vertical 2D Study Zone	70.0	Mid-Level	2D Sula 9 General...	48587.45%	0.00	AT&T, VZW, TMO
5%-100%	100%-500%	500%-5000%	5000%+			
Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF	
2D Sula 9 General Population - 0.25...	Sula 9	Spatial Avg. (6 ft)	FCC General Public	0.25	1.0	
AT&T	VZW	TMO				
Max MPE						
Grid Size: 100.00 feet				Floor = Elevation +6' Mid-Level = Elevation +/- 3'		

Appendix 3.4 MPE Limit Study Occupational Limit – Horizontal View



Legend						
Study Zone	Elev. (ft)	Type	Exposure Profile	Max MPE	Att	Carriers
Vertical 2D Study Zone	70.0	Mid-Level	2D Sula 9 Occupationa...	9295.19%	0.00	AT&T, VZW, TMO
5%-100%	100%-500%	500%-5000%	5000%+			
Exposure Profile Name	Model	Exposure Area	Standard	Resolution	RCF	
2D Sula 9 Occupational - 0.25 Res	Sula 9	Spatial Avg. (6 ft)	FCC Occupational	0.25	1.0	
AT&T	VZW	TMO				
Max MPE						
Grid Size: 100.00 feet			Floor = Elevation + 6' Mid-Level = Elevation +/- 3'			



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Appendix 4.1 Barrier & Sign Types



Stanchion Type



Cone Type



A-Frame Type

Appendix 4.2 Barrier & Sign Types

RF Safety Exposure Categorization								
Exposure Conditions	Control Measures	Signage						
- Operational of the source(s) or locations where RF fields are too weak to cause exposures greater than General Public limit. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>1</td><td><20%</td><td><100%</td></tr> </table> - Green zone is where the time and spatial-average is below 20% of Occupational Worker limit or <100% of General Public limit.	Cat.	Occupational Worker	General Public	1	<20%	<100%	- RF Safety Guideline/NIER report must be submitted to RFSO for approval. - No special EME safety practices required in these areas. - No signage required except Information sign.	 <i>*the antenna owner information and Antenna Structure Registration Number and must be displayed on the sign.</i> INFORMATION sign for access to rooftop/access door.
Cat.	Occupational Worker	General Public						
1	<20%	<100%						
- Operational of the source(s) or locations where RF exposure could cause exposure greater than General Public limit but not the Occupational Worker limit to be exceeded in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General</th></tr> <tr> <td>2</td><td>≥20% but <100%</td><td>>100%</td></tr> </table> - Blue zone is where the spatial average is between 20%-100% of Occupational Worker limit. This limit MUST be less than the Occupational limit.	Cat.	Occupational Worker	General	2	≥20% but <100%	>100%	- RF Safety Guideline/NIER report must be submitted to RFSO for approval. - Recommended RF safety awareness training for all workers in this area. - Controlled areas with barriers and/or signage required in these area. - Do not walk in front of the antenna face or no loitering in this controlled area. - Individual MUST have full control over any area where the exposure levels exceed the limit.	 NOTICE signage shall be posted on the barriers/stanchion to prevent anyone from entering into the area (must be cordon off around the antennas - 4 posts /3 signs). Or must be posted in location that can be easily viewed by individuals that enter the areas of concerns.
Cat.	Occupational Worker	General						
2	≥20% but <100%	>100%						
- Operational of the source(s) or locations where RF exposure exceeded the Occupational Worker limit in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>3</td><td>≥100%</td><td>≥500%</td></tr> </table> - Yellow zone is where the spatial average is above 100% of Occupational Worker limit.	Cat.	Occupational Worker	General Public	3	≥100%	≥500%	- RF Safety Guideline/NIER report must be submitted to RFSO for approval. - Individual shall not enter and work in these areas without RS approval - Required RF safety training and access area is restricted only for authorized worker. - Controlled areas with barriers and signage required in these area. - Do not walk in front of the antenna face. - Require reduction of RF power and approval from Radiation Safety prior any work on the antennas.	 CAUTION signage shall be posted on the barriers/stanchion to prevent anyone from entering into the area (must be cordon off around the antennas - 4 posts /3 signs).
Cat.	Occupational Worker	General Public						
3	≥100%	≥500%						
- Exposure will exceed exposure limit in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>4</td><td>>500%</td><td>>1000%</td></tr> </table> - Red zone is where the time and spatial-averaged levels fall above 500% of Occupational Worker limit or is not feasible to prevent exposures.	Cat.	Occupational Worker	General Public	4	>500%	>1000%	- RF Safety Guideline/NIER report must be submitted to RFSO for approval. - MUST re-engineer site to reduce the EME fields. No access allowed-Prohibited access! There must be controls to detect any unauthorized enter and terminate the RF energy in the area. - Lock out tag out of transmitters during the maintenance of the antenna system. - PPE is not sufficient. - Special RF training and PPE are required. (Applies only to individuals trained by RS).	 RF WARNING & Pacemaker DANGER signage or appropriate DANGER sign shall be posted very near radiation RF sources or if appropriate DANGER sign.
Cat.	Occupational Worker	General Public						
4	>500%	>1000%						

Appendix 5 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.



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MPE limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm^2), electric field strength (units of volts per meter: V/m) and magnetic field strength (units of amperes per meter: A/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.



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Appendix 6 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.

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 ²)	Averaging Time E ² , H ² or S (minutes)
0.3 - 3.0	614	1.63	100*	6
3.0 - 30	1842/f	4.89/f	900/F ²	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 ²)	Averaging Time E ² , H ² or S (minutes)
0.3 - 1.34	614	1.63	100*	30
1.34 - 30	824/f	2.19/f	180/F ²	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



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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.

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



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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

θ_{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.



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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.

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