

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

September 18, 2023

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

**RE: Notice of Exempt Modification // Site: CRANBURY CT (ATC: 411189)
2 Sunny Lane, Westport, CT 06880
N 41.16293506 // W -73.37309115**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains twelve (12) antenna at the 128-ft level on the existing 130ft Monopole tower, located at 2 Sunny Lane, Westport, CT. The tower is owned by American Tower. The Council approved Verizon Wireless use of the existing tower in 1998. Verizon Wireless proposed modification involves the installation of four (4) interference mitigation filters on Verizon Wireless existing antenna platform and mounting assembly.

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

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated September 7, 2023, by A.T. Engineering Services, LLC, a structural analysis dated August 22, 2023, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated August 2, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) study dated August 28, 2023.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis and a structural mount analysis, pursuant to certain conditions defined therein.

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

Sincerely,

Derek Maheux

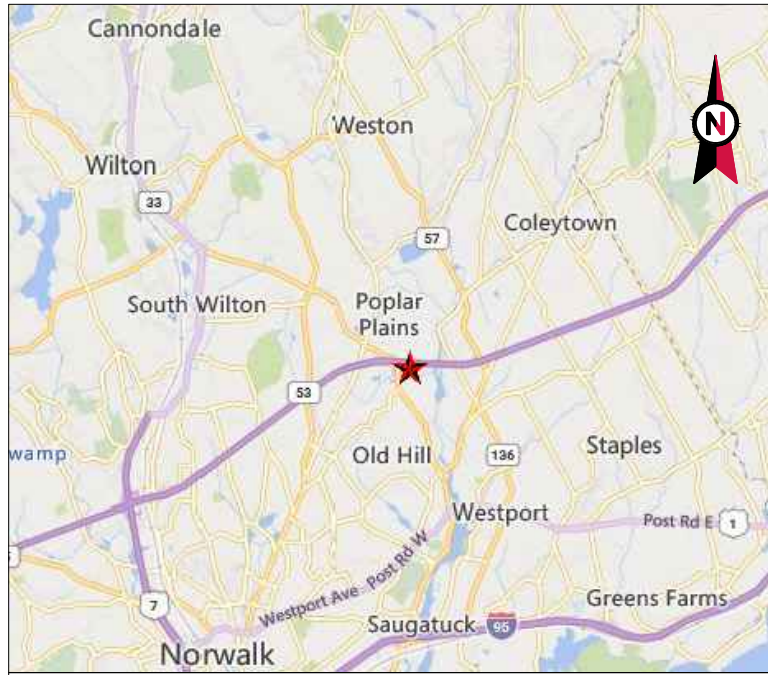
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Attachments: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Available Original Tower Approval Records
Exhibit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

cc: Jennifer Tooker – First Selectwoman – Chief Elected Official
Danielle Dobin, Chairwoman - as P&Z official
American Tower Corporation - as tower owner
Cellco Partnership – as ground owner

EXHIBIT 1





VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: CRANBURYSU CT
 ATC SITE NUMBER: 411189
 VERIZON SITE NAME: CRANBURY CT
 VERIZON SITE NUMBER: 5000384670
 SITE ADDRESS: 2 SUNNY LN
 WESTPORT, CT 06880



LOCATION MAP

BIRD WATCH SITE:
 PLEASE CONTACT BIRD.WATCH@AMERICANTOWER.COM OR
 AMERICAN TOWER NOC AT 877-518-6937 FOR ASSISTANCE

VERIZON AMENDMENT DRAWINGS

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX																																												
<p>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.</p> <p>1. 2020 NFPA 70, NATIONAL ELECTRIC CODE (NEC) 2. 2022 CONNECTICUT STATE BUILDING CODE 3. 2021 INTERNATIONAL BUILDING CODE (IBC)</p> <p><u>DESIGN CRITERIA FROM TOWER STRUCTURAL ANALYSIS:</u> BASIC WIND SPEED: 117 mph BASIC WIND SPEED W/ ICE: 50 mph CODE(S): ANSITIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE</p> <p>EXPOSURE CATEGORY: B RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 1 TOPOGRAPHIC CATEGORY: 1 FEATURE: FLAT SPECTRAL RESPONSE: S_s=0.23, S_w=0.06 SITE CLASS: D - STIFF SOIL - DEFAULT</p> <p>INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 08/08/23.</p>	<p><u>SITE ADDRESS:</u> 2 SUNNY LN WESTPORT, CT 06880 COUNTY: FAIRFIELD</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.16293506 LONGITUDE: -73.37309115 GROUND ELEVATION: 51' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:</p> <p><u>TOWER WORK:</u> INSTALL (4) FILTER(s) EXISTING (12) ANTENNA(s), (6) RRH(s), (2) OVP(s), (6) 1-5/8" COAX, AND (2) 1-5/8" HYBRID CABLE(s) TO REMAIN</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:																																								
	<p><u>PROJECT TEAM</u></p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518</p> <p><u>PROPERTY OWNER:</u> CELLCO PARTNERSHIP 2 SUNNY LN WESTPORT, CT 06880</p> <p><u>APPLICANT:</u> VERIZON WIRELESS</p>	<p>PROJECT NOTES</p> <ol style="list-style-type: none"> THE FACILITY IS UNMANNED. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. HANDICAP ACCESS IS NOT REQUIRED. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7). 	<table border="1"> <tr><td>G-001</td><td>TITLE SHEET</td><td>1</td><td>08/16/23</td><td>JMB</td></tr> <tr><td>G-002</td><td>GENERAL NOTES</td><td>0</td><td>08/15/23</td><td>VAR</td></tr> <tr><td>C-101</td><td>DETAILED SITE PLAN</td><td>0</td><td>08/15/23</td><td>VAR</td></tr> <tr><td>C-201</td><td>TOWER ELEVATION</td><td>0</td><td>08/15/23</td><td>VAR</td></tr> <tr><td>C-401</td><td>ANTENNA INFORMATION & SCHEDULE</td><td>0</td><td>08/15/23</td><td>VAR</td></tr> <tr><td>C-501</td><td>CONSTRUCTION DETAILS</td><td>0</td><td>08/15/23</td><td>VAR</td></tr> <tr><td>E-501</td><td>GROUNDING DETAILS</td><td>0</td><td>08/15/23</td><td>VAR</td></tr> <tr><td>R-601</td><td>SUPPLEMENTAL</td><td></td><td></td><td></td></tr> <tr><td>R-602</td><td>SUPPLEMENTAL</td><td></td><td></td><td></td></tr> </table>	G-001	TITLE SHEET	1	08/16/23	JMB	G-002	GENERAL NOTES	0	08/15/23	VAR	C-101	DETAILED SITE PLAN	0	08/15/23	VAR	C-201	TOWER ELEVATION	0	08/15/23	VAR	C-401	ANTENNA INFORMATION & SCHEDULE	0	08/15/23	VAR	C-501	CONSTRUCTION DETAILS	0	08/15/23	VAR	E-501	GROUNDING DETAILS	0	08/15/23	VAR	R-601	SUPPLEMENTAL				R-602	SUPPLEMENTAL		
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<p><u>UTILITY COMPANIES</u></p> <p>POWER COMPANY: EVERSOURCE PHONE: (888) 783-6617</p> <p>TELEPHONE COMPANY: AT&T PHONE: (866) 593-1383</p>		<p><u>PROJECT LOCATION DIRECTIONS</u></p> <p>HEAD SOUTHWEST ON I-95 S, TAKE EXIT 16 TOWARD EAST NORWALK 0.1 MI, TURN RIGHT ONTO EAST AVE (SIGNS FOR U.S. 1) 1.2 MI, CONTINUE ONTO NEWTOWN AVE 1.4 MI, TURN RIGHT ONTO PARTRICK AVE 1.7 MI, TURN LEFT ONTO WILTON RD 0.3 MI, TURN RIGHT ONTO SUNNY LN 0.1 MI</p>	<p>CONTRACTOR PMI REQUIREMENTS</p> <p>PMI ACCESSED AT: HTTPS://PMI.VZWSMART.COM</p> <p>SMART TOOL VENDOR PROJECT NUMBER: 10208058</p> <p>VZW LOCATION CODE (PSLC): 5000384670</p> <p>***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT</p> <p>MOUNT MODIFICATION REQUIRED: NO</p> <p>VZW APPROVED SMART KIT VENDORS: REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS</p>																																												

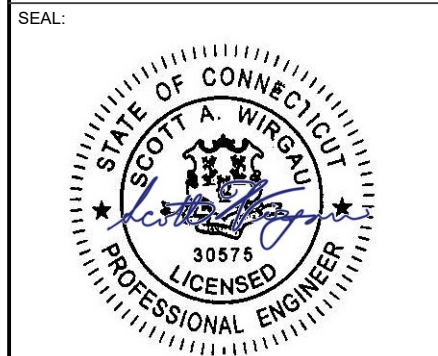


AMERICAN TOWER®
 A.T. ENGINEERING SERVICES LLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 PEC.0001553

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

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	08/15/23
1	DESIGN CRITERIA	JMB	08/16/23
2	COMPLIANCE CODE	VAR	09/07/23

ATC SITE NUMBER:
 411189
 ATC SITE NAME:
 CRANBURYSU CT
 VERIZON SITE NAME:
 CRANBURY CT
 SITE ADDRESS:
 2 SUNNY LN
 WESTPORT, CT 06880



ATC JOB NO: 14519485_GO
 CUSTOMER ID: CRANBURY CT
 CUSTOMER #: 5000384670

TITLE SHEET

SHEET NUMBER: **G-001**
 REVISION: **2**

GENERAL CONSTRUCTION NOTES:

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

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

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL 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. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL 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 CABLE THREE (3) FEET IN EXCESS OF

ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

G. ANTENNA AND COAXIAL CABLE GROUNDING:

2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPlice WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL 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.



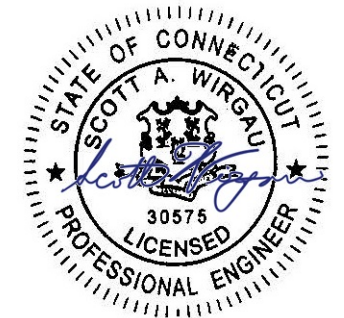
AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
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 SUITE 100
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	08/15/23

ATC SITE NUMBER:
 411189
 ATC SITE NAME:
 CRANBURYSU CT
 VERIZON SITE NAME:
 CRANBURY CT
 SITE ADDRESS:
 2 SUNNY LN
 WESTPORT, CT 06880

SEAL:



Digitally Signed: 2023-09-07



ATC JOB NO: 14519485_G0
 CUSTOMER ID: CRANBURY CT
 CUSTOMER #: 5000384670

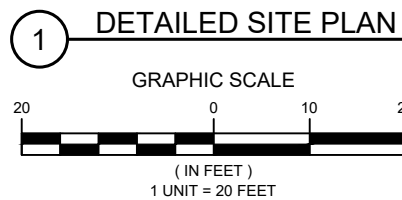
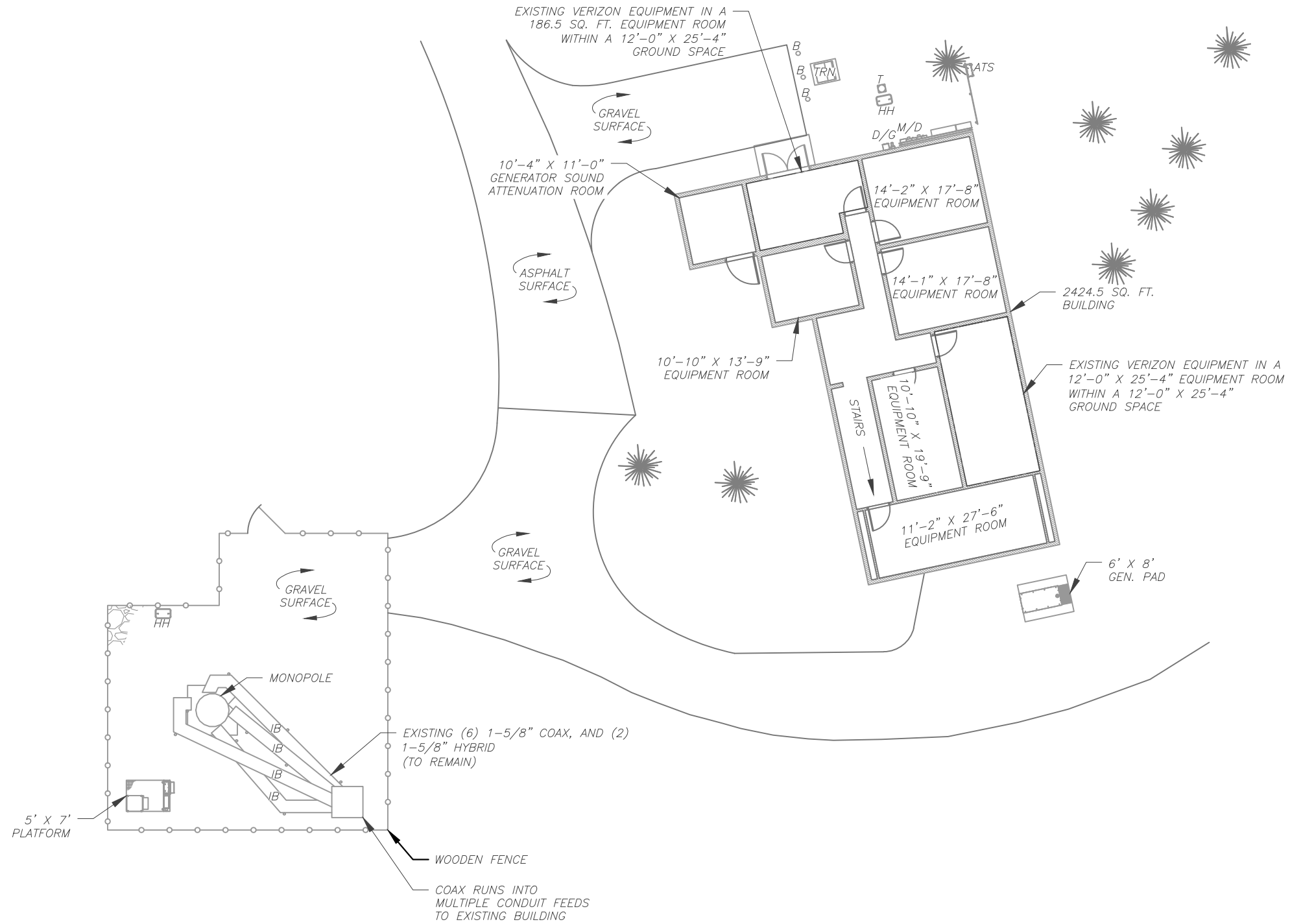
GENERAL NOTES

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.
- 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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A.T. ENGINEERING SERVICES LLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	08/15/23

ATC SITE NUMBER:
411189

ATC SITE NAME:
CRANBURYSU CT

VERIZON SITE NAME:
CRANBURY CT

SITE ADDRESS:
2 SUNNY LN
WESTPORT, CT 06880



Digitally Signed: 2023-09-07

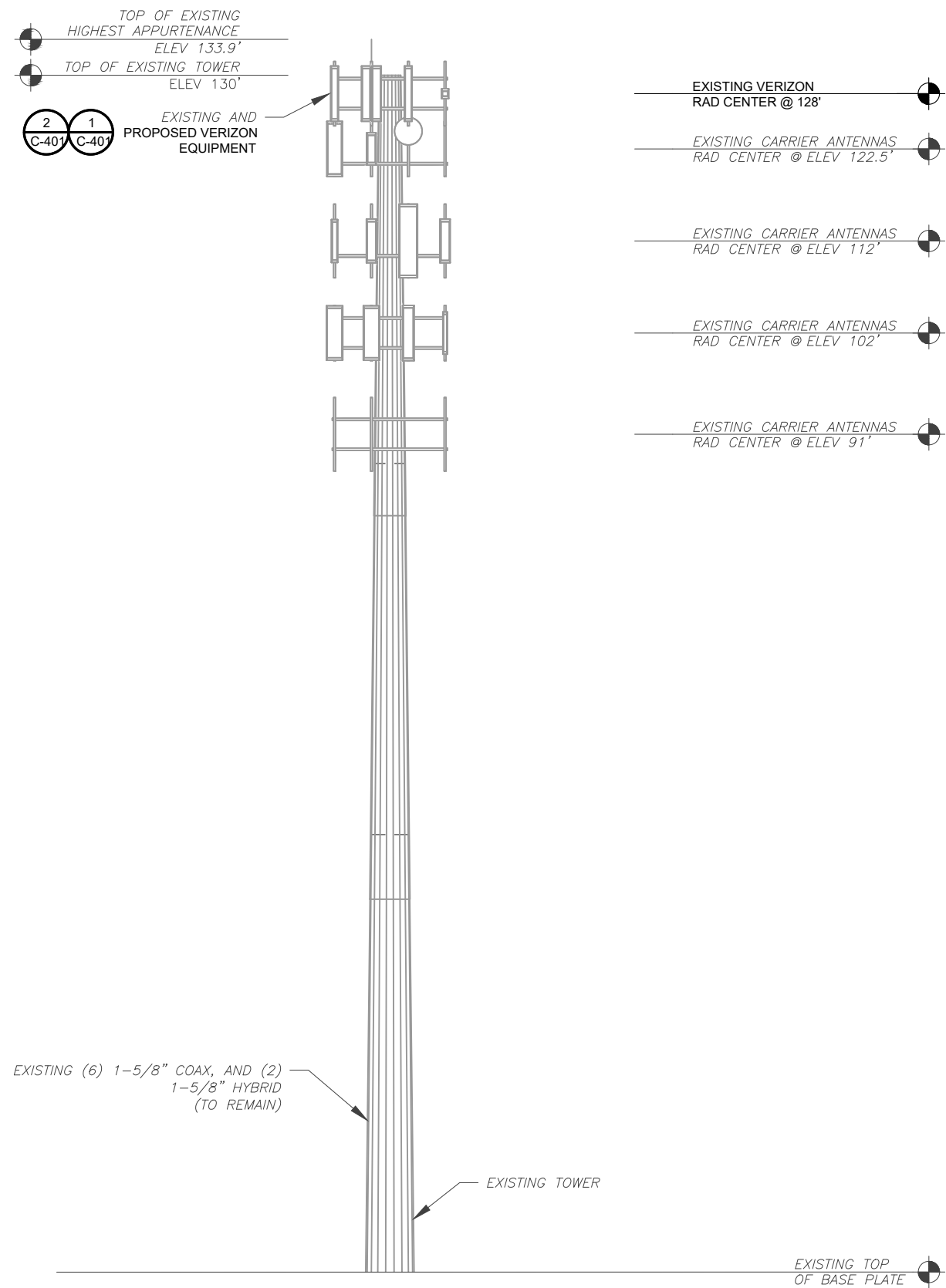
verizon	
ATC JOB NO:	14519485_G0
CUSTOMER ID:	CRANBURY CT
CUSTOMER #:	5000384670

DETAILED SITE PLAN

SHEET NUMBER: C-101	REVISION: 0
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PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 08/02/23, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



1 TOWER ELEVATION
SCALE: N.T.S.

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



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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	08/15/23

ATC SITE NUMBER:
41189
ATC SITE NAME:
CRANBURYSU CT
VERIZON SITE NAME:
CRANBURY CT
SITE ADDRESS:
2 SUNNY LN
WESTPORT, CT 06880



Digitally Signed: 2023-09-07



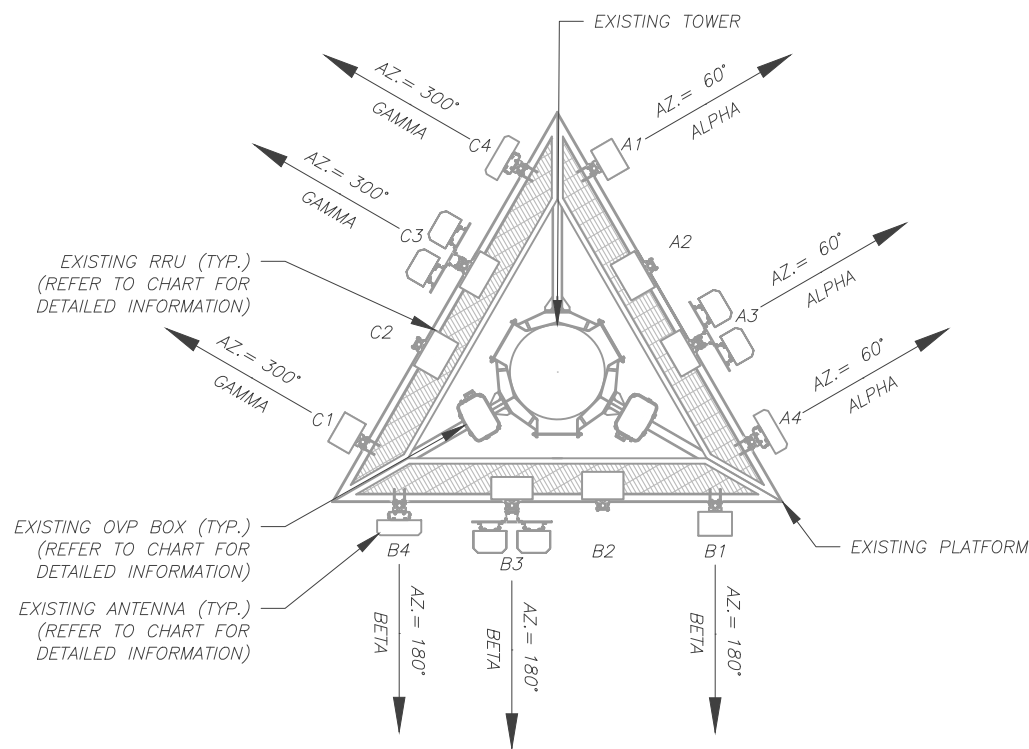
ATC JOB NO:	14519485_GO
CUSTOMER ID:	CRANBURY CT
CUSTOMER #:	5000384670

TOWER ELEVATION

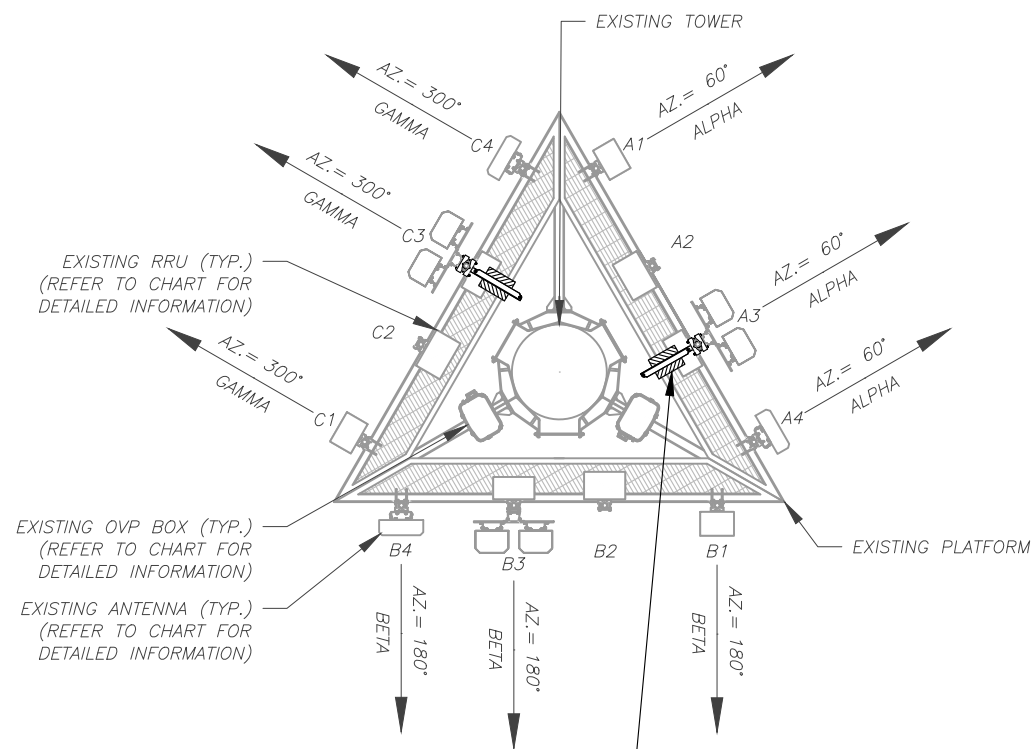
SHEET NUMBER: C-201	REVISION: 0
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PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 08/02/23, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



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



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

EXISTING ANTENNA SCHEDULE							
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	128'	60°	A1	XXDWMM-12.5-65-8T-CBRS	-	RMN	-
			A2	-	-	RMN	B2/B66A RRH-BR049
			A3	QS6656-5	-	RMN	B5/B13 RRH-BR04C
			A4	MT6407-77A	-	RMN	-
BETA	128'	180°	B1	XXDWMM-12.5-65-8T-CBRS	-	RMN	-
			B2	-	-	RMN	B2/B66A RRH-BR049
			B3	QS6656-5	-	RMN	B5/B13 RRH-BR04C
			B4	MT6407-77A	-	RMN	-
GAMMA	128'	300°	C1	XXDWMM-12.5-65-8T-CBRS	-	RMN	-
			C2	-	-	RMN	B2/B66A RRH-BR049
			C3	QS6656-5	-	RMN	B5/B13 RRH-BR04C
			C4	MT6407-77A	-	RMN	-

NOTES

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

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

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

FINAL ANTENNA SCHEDULE							
LOCATION		ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	128'	60°	A1	XXDWMM-12.5-65-8T-CBRS	-	RMN	-
			A2	-	-	RMN	B2/B66A RRH-BR049
			A3	QS6656-5	-	RMN	(2) KA-6030 B5/B13 RRH-BR04C
			A4	MT6407-77A	-	RMN	-
BETA	128'	180°	B1	XXDWMM-12.5-65-8T-CBRS	-	RMN	-
			B2	-	-	RMN	B2/B66A RRH-BR049
			B3	QS6656-5	-	RMN	B5/B13 RRH-BR04C
			B4	MT6407-77A	-	RMN	-
GAMMA	128'	300°	C1	XXDWMM-12.5-65-8T-CBRS	-	RMN	-
			C2	-	-	RMN	B2/B66A RRH-BR049
			C3	QS6656-5	-	RMN	(2) KA-6030 B5/B13 RRH-BR04C
			C4	MT6407-77A	-	RMN	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(2) RVZDC-3315-PF-48	RMN	(6) 1-5/8" COAX, AND (2) 1-5/8" HYBRID	RMN
-	-	----	-

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(2) RVZDC-3315-PF-48	RMN	(6) 1-5/8" COAX, AND (2) 1-5/8" HYBRID	RMN
-	-	----	-

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	08/15/23

ATC SITE NUMBER:
411189

ATC SITE NAME:
CRANBURYSU CT

VERIZON SITE NAME:
CRANBURY CT

SITE ADDRESS:
2 SUNNY LN
WESTPORT, CT 06880

SEAL:

Digitally Signed: 2023-09-07

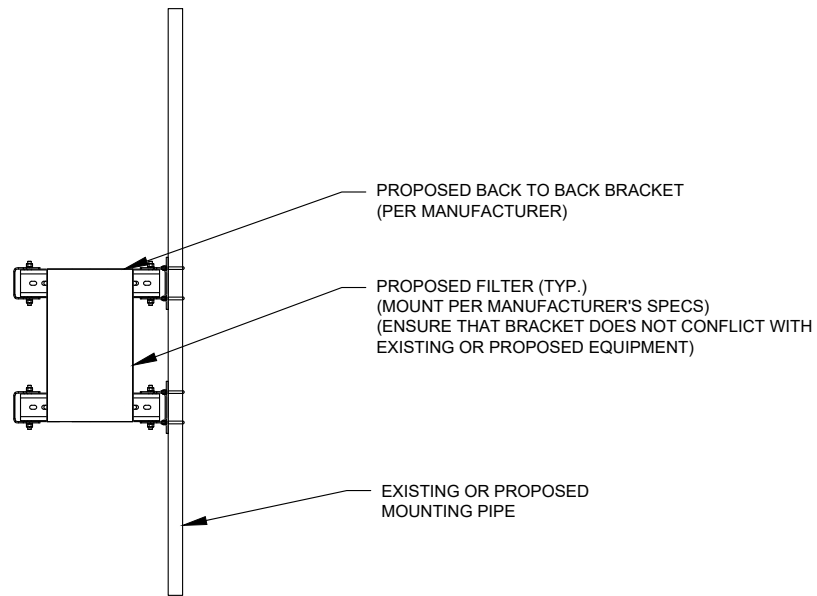
ATC JOB NO: 14519485_G0
 CUSTOMER ID: CRANBURY CT
 CUSTOMER #: 5000384670

ANTENNA INFORMATION & SCHEDULE

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

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



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



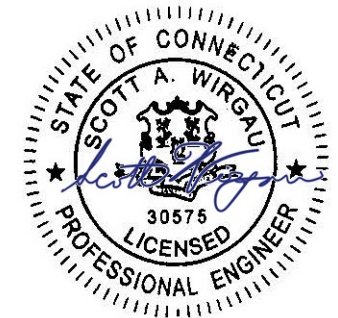
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	08/15/23

ATC SITE NUMBER:
411189
 ATC SITE NAME:
CRANBURYSU CT
 VERIZON SITE NAME:
CRANBURY CT
 SITE ADDRESS:
2 SUNNY LN
WESTPORT, CT 06880

SEAL:



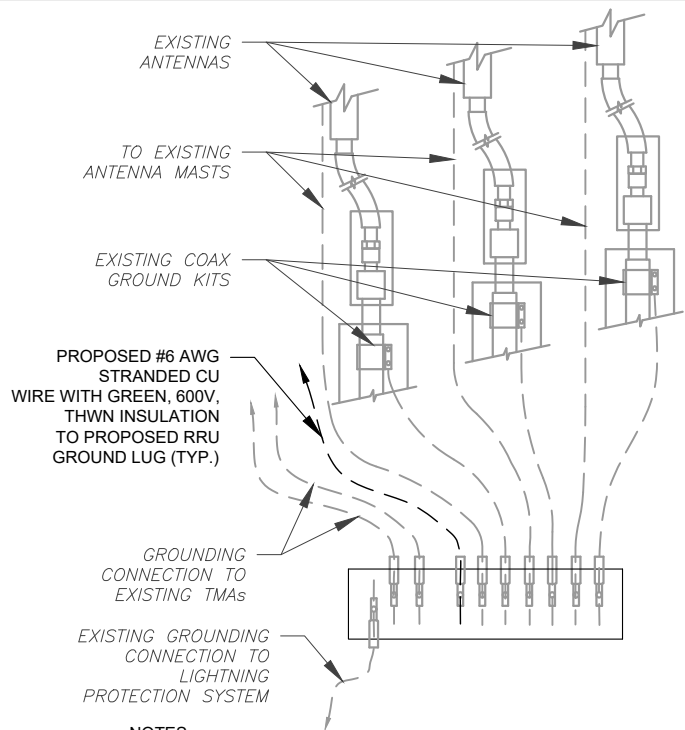
Digitally Signed: 2023-09-07



ATC JOB NO: 14519485_G0
 CUSTOMER ID: CRANBURY CT
 CUSTOMER #: 5000384670

**CONSTRUCTION
DETAILS**

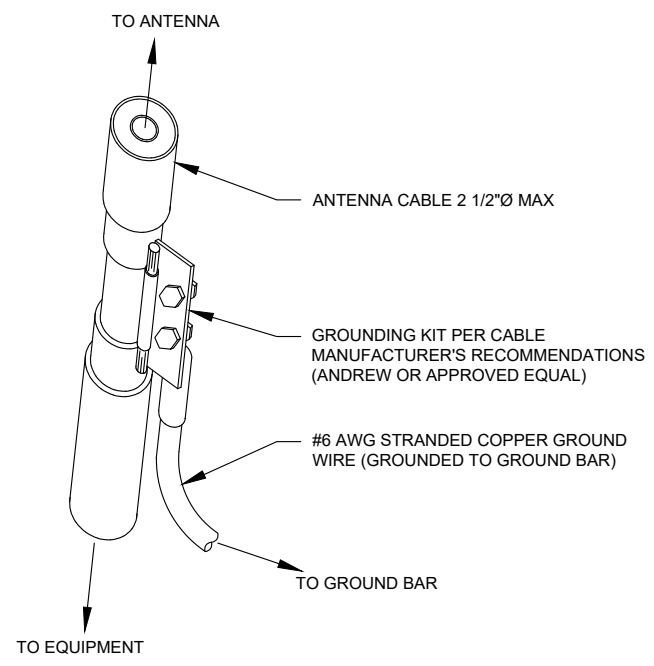
SHEET NUMBER: **C-501** REVISION: **0**



NOTES:

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

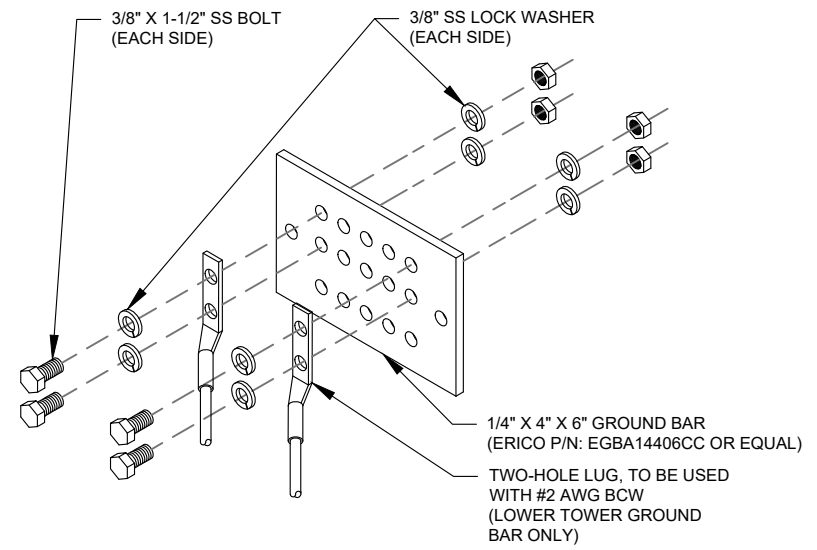
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

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

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



GROUND BAR NOTES:

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

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

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A.T. ENGINEERING SERVICES LLC
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 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	VAR	08/15/23

ATC SITE NUMBER:
411189

ATC SITE NAME:
CRANBURYSU CT

VERIZON SITE NAME:
CRANBURY CT

SITE ADDRESS:
2 SUNNY LN
WESTPORT, CT 06880



Digitally Signed: 2023-09-07

ATC JOB NO: 14519485_G0
 CUSTOMER ID: CRANBURY CT
 CUSTOMER #: 5000384670

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 0
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KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.8MHz guardband the KA-6030 provides rejection of the 800 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

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



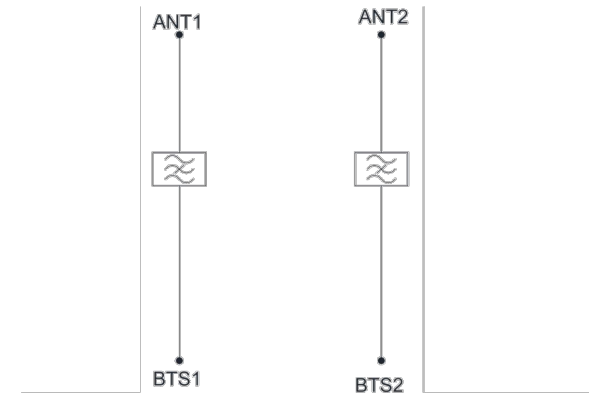
TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum Input power (Per Port)	100W average	200W average and 65W per 5MHz
Rejection	83dB minimum @ 894.1 - 906.5MHz	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-100dbc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dbc maximum with 2 x 43dBm	
DC / ASG		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 26.461	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C (-4°F to +140°F)	
Ingress protection	IP67	
Altitude	2000m | 6530ft	
Lightning protection	RF port: 25kA maximum (9/20µs), IEC 61000-4-5 - LNT must be terminated with some lightning protection circuits.	
MTPF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4-1H, RoHS, NEBS GR-487-CORE	
MECHANICAL		
Dimensions H x D x W	269 x 277 x 80mm | 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg | 17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7036)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

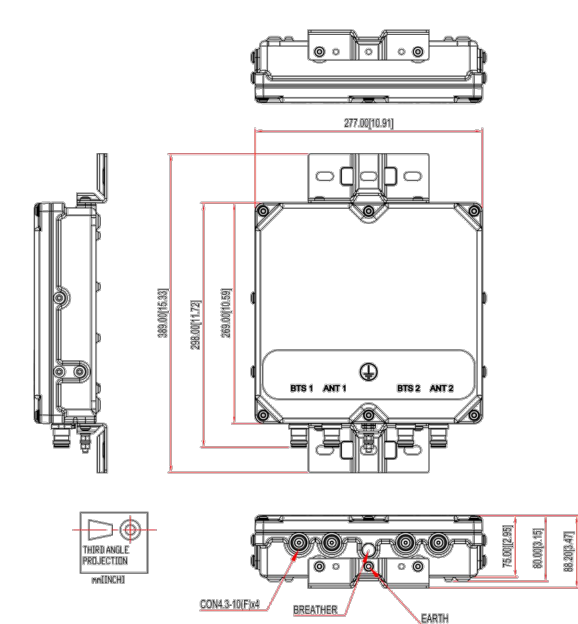
ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6030-2B32	TWIN, 2 in / 2 out	DC/ASG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM



SUPPLEMENTAL

SHEET NUMBER:

R-601

REVISION:

0

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.



Colliers Engineering & Design CT, PC
 1055 Washington Boulevard
 Stamford, CT 06901
 203.324.0800
 Peter.albano@collierseng.com

Mount Structural Analysis Report
 (1) 13.75-Ft Platform

August 2, 2023
 Site ID: 5000384670-VZW / CRANBURY CT
 Page | 5

Requirements:

The existing mount 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. Mount Mapping Report (for reference only)
5. Analysis Calculations

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10208058
 Colliers Engineering & Design Project CT, PC #: 23777213

August 2, 2023

Site Information

Site ID: 5000384670-VZW / CRANBURY CT
 Site Name: CRANBURY CT
 Carrier Name: Verizon Wireless
 Address: 2 SUNNY LANE
 Westport, Connecticut 06880
 Fairfield County
 Latitude: 41.162917°
 Longitude: -73.373083°

Structure Information

Tower Type: 129-Ft Monopole
 Mount Type: 13.75-Ft Platform

FUZE ID # 17123719

Analysis Results

Platform: 72.3% 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: Lauren Luzier



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

SUPPLEMENTAL

SHEET NUMBER: R-602	REVISION: 0
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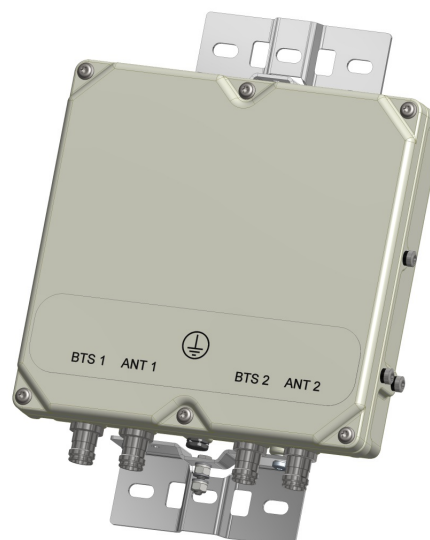
KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

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

FEATURES

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



TECHNICAL SPECIFICATIONS

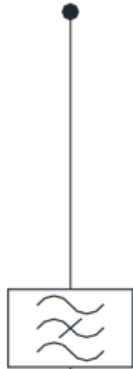
BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum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

ORDERING INFORMATION

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

ELECTRICAL BLOCK DIAGRAM

ANT1



BTS1

ANT2



BTS2

MECHANICAL BLOCK DIAGRAM

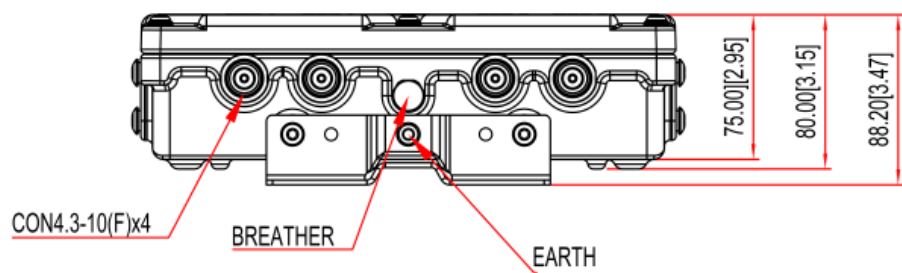
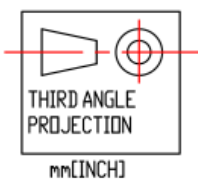
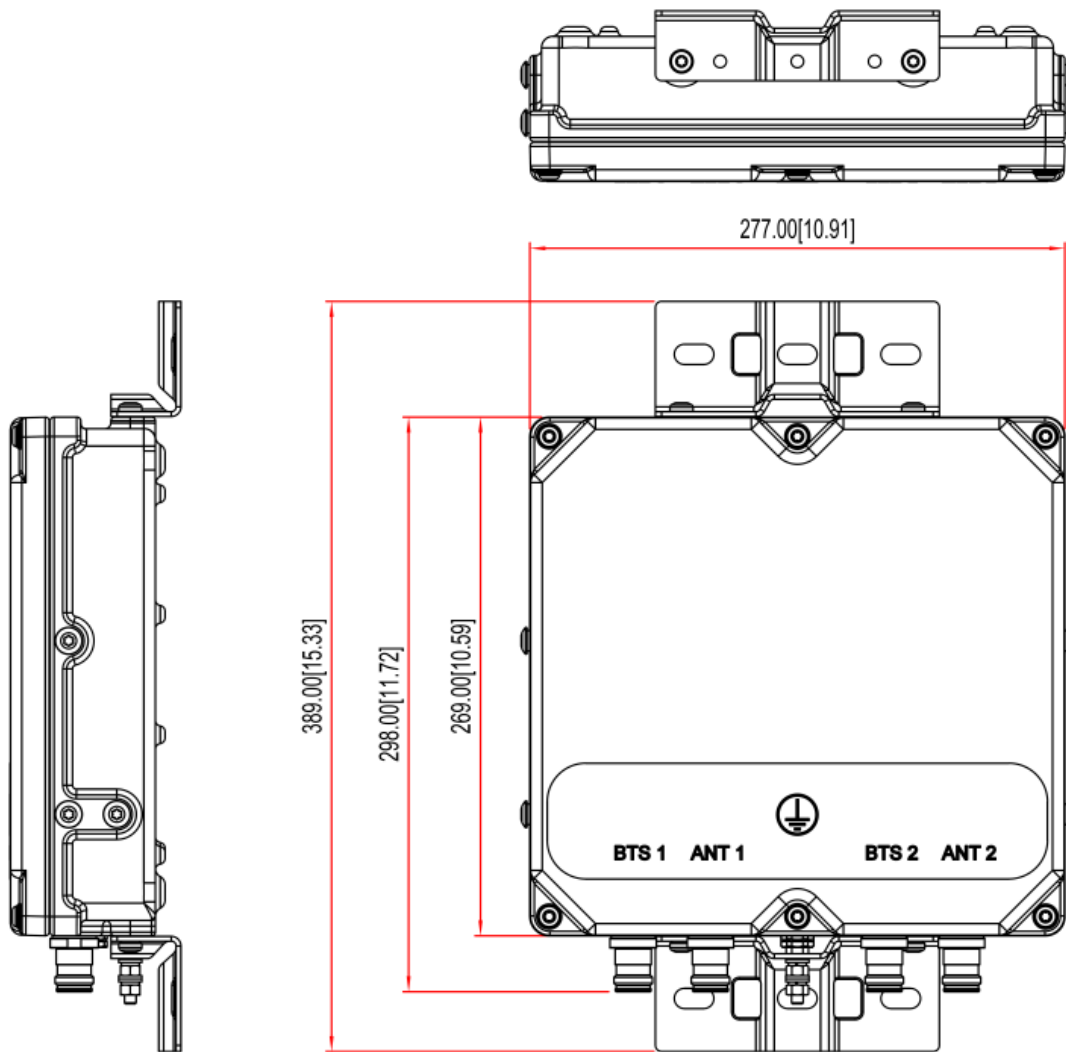


EXHIBIT 2



2 ALLEN RAYMOND LN

Location 2 ALLEN RAYMOND LN

Mblu B13 / / 026/000 /

Acct# 8579

Owner CELLCO PARTNERSHIP

Assessment \$1,333,220

Appraisal \$1,904,600

PID 4500

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$1,424,000	\$480,600	\$1,904,600

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$996,820	\$336,400	\$1,333,220

Owner of Record

Owner	CELLCO PARTNERSHIP	Sale Price	\$415,000
Co-Owner	BELL ATLANTIC NYNEX MOBILE DBA	Certificate	1
Address	PO BOX 2549 ADDISON , TX 75001	Book & Page	1488/0099
		Sale Date	12/10/1996
		Instrument	00

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
CELLCO PARTNERSHIP	\$415,000	1	1488/0099	00	12/10/1996

Building Information

Building 1 : Section 1

Year Built: 1968
Living Area: 3,006
Replacement Cost: \$508,423
Building Percent Good: 76
**Replacement Cost
Less Depreciation:** \$386,400

Building Attributes

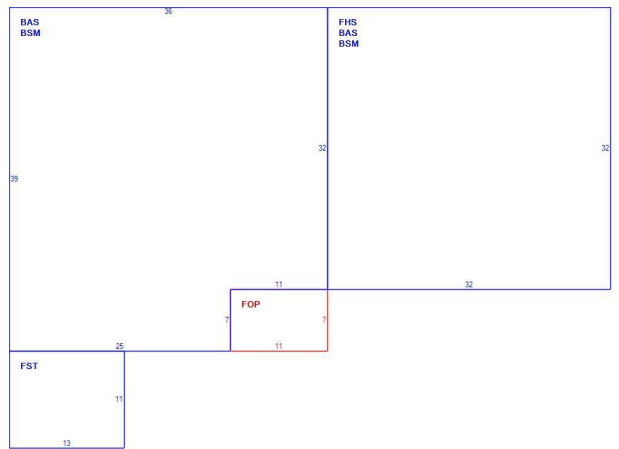
Field	Description
Style:	Res Typ Comm
Model	Commercial
Grade	Average +20
Stories:	1
Occupancy	1.00
Exterior Wall 1	Board & Batten
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Asphalt/F Glas
Interior Wall 1	Drywall
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Forced Air
AC Type	Central
Struct Class	
Bldg Use	Cell Site
Income Adj	
1st Floor Use:	
Heat/AC	Heat/AC Pkgs
Frame Type	Wood Frame
Baths/Plumbing	Average
Ceiling/Walls	Ceil & Walls
Rooms/Prtns	Average
Wall Height	8.00
% Comn Wall	

Building Photo



(<https://images.vgsi.com/photos2/WestportCTPhotos/\00\02\54\59.jpg>)

Building Layout



(ParcelSketch.ashx?pid=4500&bid=4500)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	2,351	2,351
FHS	Half Story, Finished	1,024	512
FST	Utility Storage, Fin	143	143
BSM	Basement Area	2,351	0
FOP	Porch, Open	77	0
		5,946	3,006

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 434
Description Cell Site
Zone AAA
Neighborhood C
Alt Land Appr Category No

Land Line Valuation

Size (Acres) 1.63
Frontage 0
Depth 0
Assessed Value \$336,400
Appraised Value \$480,600

Outbuildings

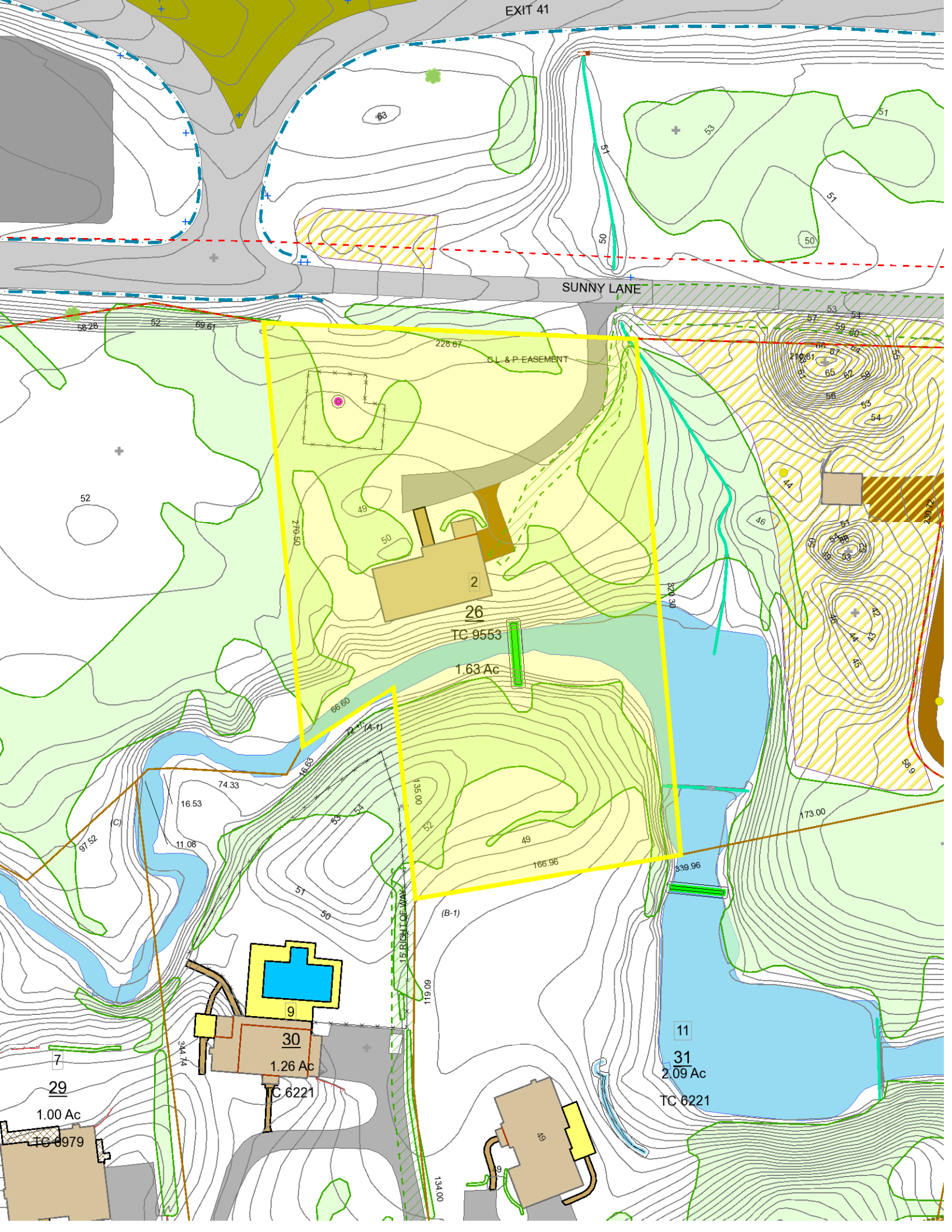
Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
CELL	Cell on TWR	TW		6.00 Sites	\$1,037,600	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2022	\$1,424,000	\$480,600	\$1,904,600
2021	\$1,424,000	\$480,600	\$1,904,600
2020	\$1,424,000	\$480,600	\$1,904,600

Assessment			
Valuation Year	Improvements	Land	Total
2022	\$996,820	\$336,400	\$1,333,220
2021	\$996,820	\$336,400	\$1,333,220
2020	\$996,820	\$336,400	\$1,333,220

EXIT 41



SUNNY LANE

D.L. & P. EASEMENT

2
26
TC 9553

1.63 Ac

7
29

1.00 Ac
TC 8979

9
30

1.26 Ac
TC 6221

11
31

2.09 Ac
TC 6221

(B-1)

RIGHT OF WAY

EXHIBIT 3





AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 130 ft Monopole
ATC Asset Name : CRANBURYSU CT
ATC Asset Number : 411189
Engineering Number : 14519485_C3_03
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : CRANBURY CT
Carrier Site Number : 5000384670
Site Location : 2 SUNNY LANE
WESTPORT, CT 06880-1906
41.1629° N, 73.3731° W
County : Fairfield
Date : August 8, 2023
Max Usage : 40%
Analysis Result : Pass

Created By:

Thomas Ambrosio
Structural Engineer I



COA: PEC.0001553

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 130 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	EI Job #10847, dated June 7, 2002
Foundation:	EI Project #10847, dated June 10, 2002
Geotechnical:	Clarence Welti Association Project Name 2 Sunny Lane, dated January 29, 1999

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:	117 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Feature:	Flat
Spectral Response:	$S_s = 0.23$, $S_i = 0.06$
Site Class:	D - Stiff Soil - Default

Conclusion

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

If you have any questions or require additional information, please contact American Tower Engineering via email at Engineering@americantower.com. 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	35.0%	1.2D + 1.0W	Pass
Base Plate @ 0.0 ft	34.5%	Rods	Pass
Mat & Pier	40.2%	Flexure [Steel (Pier)]	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	2,637.5	62.4	28.0

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

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

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
130.0	1	Triangular Platform with Handrails	-
129.0	1	VZW Unused Reserve (4255.12 sqin)	
128.0	2	2" x 8" GPS	(2) 0.63" (16mm) LDF4-50A (6) 1 5/8" Coax (2) 1 5/8" Hybriflex
	2	Raycap RVZDC-3315-PF-48	
	3	Commscope TD-850B-LTE78-43	
	3	Samsung B2/B66A RRH-BR049	
	3	Samsung B5/B13 RRH-BR04C	
	3	Samsung MT6407-77A	
	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	
	3	Samsung RT4401-48A	
	4	Kaelus KA-6030	
	6	Quintel QS6656-5	
76.0	1	Stand-Off	-
72.0	1	VZW Unused Reserve (16 sqin)	
68.0	1	VZW Unused Reserve (16 sqin)	

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier	
125.3	3	Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	(1) 1/2" Coax (1) 0.78" (19.7mm) 8 AWG 6 (1) 2" Conduit (3) 1 5/8" Coax	SPRINT NEXTEL	
124.9	1	Andrew Microwaves VHLP800-11 (49 lbs)			
124.6	1	24" x 24" Junction Box			
123.4	3	Alcatel-Lucent RRH2x50-08			
122.9	3	Commscope NNVV-65B-R4			
122.6	3	Alcatel-Lucent 1900MHz RRH			
122.5	3	42" x 12" Panel			
120.0	1	Triangular Low Profile Platform	(3) 1 1/4" (1.25"- 31.8mm) Fiber (3) 1.99" (50.7mm) Hybrid	T-MOBILE	
110.0	1	Triangular Low Profile Platform			
	3	Ericsson 4460 BAND 2/25			
	3	Ericsson Air6449 B41			
	3	Ericsson Radio 4449 B71 B85A RFS APXVAARR24_43-U-NA20			
107.0	1	GPS	-	AT&T MOBILITY	
106.6	1	GPS			
104.9	1	Raycap DC6-48-60-18-8F			
104.8	3	Ericsson Radio 4415 B30			
104.7	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 8843 B2, B66A			
104.3	1	Raycap DC9-48-60-24-8C-EV			
104.0	1	Triangular Platform with Handrails			
100.0	1	Raycap DC6-48-60-0-8F			(3) 0.39" (10mm) Fiber Trunk (1) 0.39" (9.8mm) Cable (5) 0.78" (19.7mm) 8 AWG 6 (2) 0.92" (23.4mm) Cable (3) 2" conduit
	3	CCI DMP65R-BU6DA			
	3	CCI TPA-65R-BU6DA-K			
	3	Ericsson AIR 6419 B77G			
	3	Ericsson Air 6449 B77D			
	3	Ericsson RRUS 4478 B14			
91.0	1	Empty Low Profile Platform	-	OTHER	
86.0	1	Triangular Platform with Handrails	-	-	
	1	Commscope RDIDC-9181-PF-48	(1) 1.75" (44.5mm) Hybrid	DISH WIRELESS L.L.C.	



Elev (ft)	Qty	Equipment	Lines	Carrier
	3	Fujitsu TA08025-B604		
	3	Fujitsu TA08025-B605		
	3	JMA Wireless MX08FRO665-21		
73.8	1	2" x 4" GPS	(1) 1/2" Coax	SPRINT NEXTEL
68.0	1	Side Arm	-	AT&T MOBILITY
66.3	1	GPS	-	
66.0	1	GPS	(2) 1/2" Coax	
60.0	1	GPS	(1) 1/2" Coax	T-MOBILE

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

Standard Conditions

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

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

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

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

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

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

ANALYSIS PARAMETERS

Nominal Wind: 117 mph	Ice Wind: 50 mph w/ 1" ice	Service Wind: 60 mph
Risk Category: II	Exposure: B	S _s : 0.233 S _i : 0.056
Topo Category: 1	Topo Factor: Method 1	Topo Feature:
Structure Height: 130 ft	Base Elevation: 0.00 ft	Structure Type: Taper
Base Diameter: 62 in	Base Rotation: 0°	Taper: 0.2710 (in/ft)

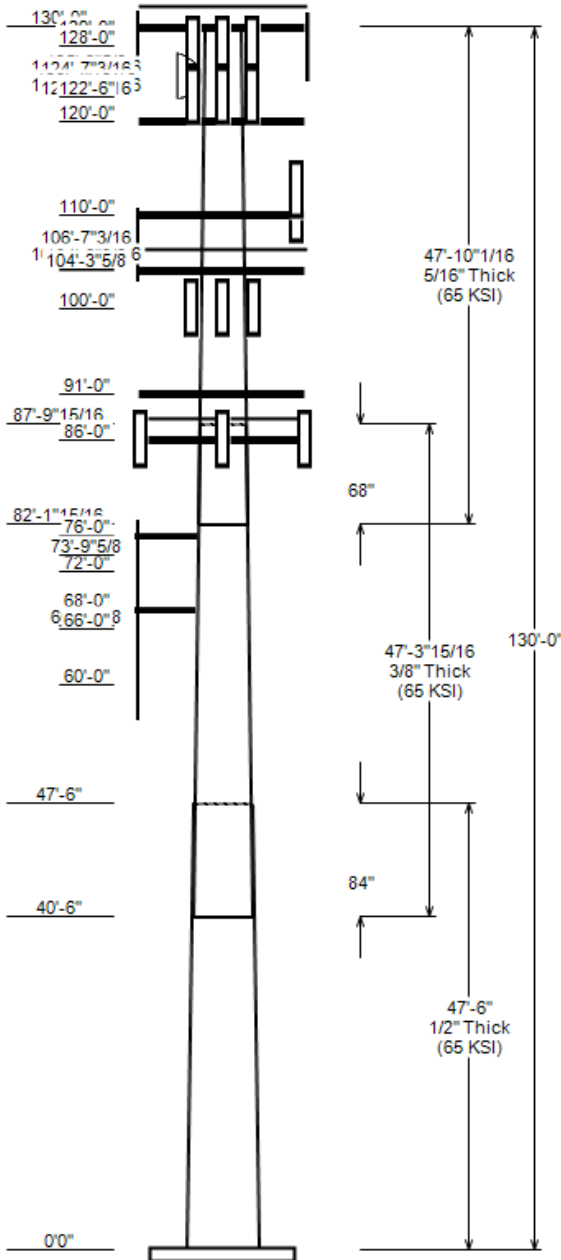
POLE SECTION PROPERTIES

Section	Length (ft)	Flat Diameter (in)		Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
		Top	Bottom					
1	47.500	49.14	62.00	0.500		0.000	18 Sides	65
2	47.330	38.97	51.78	0.375	Slip Joint	84.000	18 Sides	65
3	47.837	28.18	41.13	0.312	Slip Joint	68.000	18 Sides	65

DISCRETE APPURTENANCE

LINEAR APPURTENANCE

Elev (ft)	Description	Elev To (ft)	Description
130.0	(1) Generic Flat Platform with Han	128.0	(2) 1 5/8" Hybriflex
129.0	(1) VZW Unused Reserve (4255.12 sq	128.0	(6) 1 5/8" Coax
128.0	(2) Generic 2" x 8" GPS	128.0	(2) 0.63" (16mm) LDF4-50A
128.0	(3) Samsung Outdoor CBRS 20W RRH -	124.0	(1) 2" conduit
128.0	(4) Kaelus KA-6030	124.0	(1) 1/2" Coax
128.0	(3) Samsung RT4401-48A	124.0	(1) 0.78" (19.7mm) 8 AWG 6
128.0	(3) Samsung B5/B13 RRH-BR04C	122.0	(3) 1 5/8" Coax
128.0	(3) Samsung B2/B66A RRH-BR049	110.0	(3) 1.99" (50.7mm) Hybrid
128.0	(3) Commscope TD-850B-LTE78-43	110.0	(3) 1 1/4" (1.25"- 31.8mm) Fiber
128.0	(2) Raycap RVZDC-3315-PF-48	100.0	(3) 2" conduit
128.0	(3) Samsung MT6407-77A	100.0	(2) 0.92" (23.4mm) Cable
128.0	(6) Quintel QS6656-5	100.0	(5) 0.78" (19.7mm) 8 AWG 6
125.3	(3) Alcatel-Lucent 800 MHz 2X50W R	100.0	(1) 0.39" (9.8mm) Cable
124.9	(1) Andrew Microwaves VHLP800-11 (	100.0	(3) 0.39" (10mm) Fiber Trunk
124.6	(1) Generic 24" x 24" Junction Box	86.0	(1) 1.75" (44.5mm) Hybrid
123.4	(3) Alcatel-Lucent RRH2x50-08	73.0	(1) 1/2" Coax
122.9	(3) Commscope NNVV-65B-R4	66.0	(1) 1/2" Coax
122.6	(3) Alcatel-Lucent 1900MHz RRH	66.0	(1) 1/2" Coax
122.5	(3) Generic 42" x 12" Panel	60.0	(1) 1/2" Coax
120.0	(1) Generic Flat Low Profile Platf		
110.0	(3) Ericsson Radio 4449 B71 B85A		
110.0	(3) Ericsson 4460 BAND 2/25		
110.0	(3) Ericsson Air6449 B41		
110.0	(3) RFS APXVAARR24_43-U-NA20		
110.0	(1) Generic Flat Low Profile Platf		
107.0	(1) Generic GPS		
106.6	(1) Generic GPS		
104.9	(1) Raycap DC6-48-60-18-8F		
104.8	(3) Ericsson Radio 4415 B30		
104.7	(3) Ericsson RRUS 8843 B2, B66A		
104.7	(3) Ericsson RRUS 4449 B5, B12		
104.3	(1) Raycap DC9-48-60-24-8C-EV		
104.0	(1) Generic Flat Platform with Han		
100.0	(1) Raycap DC6-48-60-0-8F		
100.0	(3) Ericsson RRUS 4478 B14		
100.0	(3) Ericsson AIR 6419 B77G		
100.0	(3) Ericsson Air 6449 B77D		
100.0	(3) CCI TPA-65R-BU6DA-K		
100.0	(3) CCI DMP65R-BU6DA		
91.0	(1) Empty Flat Low Profile Platfor		
86.0	(1) Commscope RDIDC-9181-PF-48		
86.0	(3) Fujitsu TA08025-B604		
86.0	(3) Fujitsu TA08025-B605		
86.0	(3) JMA Wireless MX08FRO665-21		
86.0	(1) Generic Flat Platform with Han		
76.0	(1) Generic Round Stand-Off		
73.8	(1) Generic 2" x 4" GPS		
72.0	(1) VZW Unused Reserve (16 sqin)		
68.0	(1) VZW Unused Reserve (16 sqin)		
68.0	(1) Side Arm		
66.3	(1) Generic GPS		
66.0	(1) Generic GPS		
60.0	(1) Generic GPS		



GLOBAL BASE REACTIONS

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	2637.48	62.39	28.03
0.9D + 1.0W	2621.37	46.79	28.01
1.2D + 1.0Di + 1.0Wi	686.87	81.36	7.48
1.2D + 1.0Ev + 1.0Eh	196.67	62.68	1.93
0.9D - 1.0Ev + 1.0Eh	195.11	42.64	1.93
1.0D + 1.0W	618.06	52.01	6.59

DISH SERVICEABILITY

Load Case	Elevation (ft)	Deflection (in)	Rotation (°)
1.0D + 1.0W	124.90	6.373	0.440

ANALYSIS PARAMETERS

Location:	Fairfield County,CT	Height:	130 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	62.00 in
Manufacturer:	EEL	Top Diameter:	28.18 in
K_d (non-service):	0.95	Taper:	0.2710 in/ft
K_e:	1.00	Rotation:	0.000°

ICE & WIND PARAMETERS

Risk Category:	II	Design Wind Speed:	117 mph
Exposure Category:	B	Design Wind Speed w/ Ice:	50 mph
Topo Factor Procedure:	Method 1	Design Ice Thickness:	1.00 in
Topographic Category:	1	Service Wind Speed:	60 mph
Crest Height:	0 ft	HMSL:	51.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	1.61
T_L (sec):	6	P:	1
S_s:	0.233	S₁:	0.056
F_a:	1.600	F_v:	2.400
S_{ds}:	0.249	S_{d1}:	0.090
		C_s:	0.037
		C_s Max:	0.037
		C_s Min:	0.030

LOAD CASES

1.2D + 1.0W	117 mph Wind with No Ice
0.9D + 1.0W	117 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph Wind with 1" Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Section	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	47.50	0.5000	65		0.00	14,125	62.00	0.000	97.60	46,638.0	20.45	124.00	49.14	47.50	77.19	23,072.	15.92	98.28	0.2707
2-18	47.33	0.3750	65	Slip	84.00	8,626	51.78	40.500	61.19	20,432.2	22.94	138.09	38.97	87.83	45.94	8,645.4	16.91	103.92	0.2707
3-18	47.84	0.3125	65	Slip	68.00	5,544	41.13	82.163	40.48	8,521.7	21.80	131.62	28.18	130.00	27.64	2,711.5	14.49	90.17	0.2707
Total Shaft Weight						28,295													

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
130.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3669.43	56.206	1.00
129.00	VZW Unused Reserve (4255.12 sq	1	0.75	0.000	0.00	29.549	0.90	0.00	43.090	0.90
128.00	Generic 2" x 8" GPS	2	1.00	0.000	10.00	0.141	1.00	13.63	0.363	1.00
128.00	Quintel QS6656-5	6	0.75	0.000	65.00	8.133	0.74	195.87	9.964	0.74
128.00	Samsung MT6407-77A	3	0.75	0.000	81.60	4.709	0.61	148.55	5.707	0.61
128.00	Raycap RVZDC-3315-PF-48	2	0.75	0.000	21.40	2.512	0.67	73.72	3.196	0.67
128.00	Commscope TD-850B-LTE78-43	3	0.75	0.000	53.00	1.964	0.50	87.92	2.569	0.50
128.00	Samsung B2/B66A RRH-BR049	3	0.75	0.000	84.40	1.875	0.50	126.30	2.468	0.50
128.00	Samsung B5/B13 RRH-BR04C	3	0.75	0.000	70.30	1.875	0.50	107.87	2.468	0.50
128.00	Samsung RT4401-48A	3	0.75	0.000	18.60	0.996	0.50	36.34	1.445	0.50
128.00	Kaelus KA-6030	4	0.75	0.000	17.60	0.963	0.50	33.09	1.392	0.50
128.00	Samsung Outdoor CBRS 20W RRH –	3	0.75	0.000	4.40	0.892	0.50	16.22	1.312	0.50
125.30	Alcatel-Lucent 800 MHz 2X50W R	3	0.80	0.000	64.00	2.058	0.67	114.54	2.686	0.67
124.90	Andrew Microwaves VHLP800-11 (	1	1.00	0.000	49.00	7.760	1.00	153.42	8.831	1.00
124.60	Generic 24" x 24" Junction Box	1	0.80	0.000	20.00	4.800	1.00	95.25	5.731	1.00
123.40	Alcatel-Lucent RRH2x50-08	3	0.80	0.000	52.90	1.701	0.50	91.71	2.266	0.50
122.90	Commscope NNVV-65B-R4	3	0.80	0.000	77.40	12.271	0.64	241.93	14.107	0.64
122.60	Alcatel-Lucent 1900MHz RRH	3	0.80	0.000	44.00	3.258	0.72	115.32	4.037	0.72
122.50	Generic 42" x 12" Panel	3	0.80	0.000	30.00	4.356	0.66	95.63	5.440	0.66
120.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2402.97	38.546	1.00
110.00	RFS APXVAARR24_43-U-NA20	3	0.80	3.000	127.90	20.243	0.63	381.80	22.642	0.63
110.00	Ericsson 4460 BAND 2/25	3	0.80	0.000	109.00	2.564	0.67	166.17	3.246	0.67
110.00	Ericsson Air6449 B41	3	0.80	0.000	104.00	5.682	0.63	192.14	6.709	0.63
110.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2398.77	38.448	1.00
110.00	Ericsson Radio 4449 B71 B85A	3	0.80	0.000	75.00	1.650	0.50	113.89	2.199	0.50
107.00	Generic GPS	1	0.75	0.000	10.00	0.900	1.00	28.89	1.313	1.00
106.60	Generic GPS	1	0.75	0.000	10.00	0.900	1.00	28.88	1.313	1.00
104.90	Raycap DC6-48-60-18-8F	1	0.75	4.000	20.00	1.260	1.00	53.94	1.684	1.00
104.80	Ericsson Radio 4415 B30	3	0.75	0.000	43.00	1.650	0.50	70.16	2.197	0.50
104.70	Ericsson RRUS 8843 B2, B66A	3	0.75	0.000	72.00	1.639	0.50	111.49	2.183	0.50
104.70	Ericsson RRUS 4449 B5, B12	3	0.75	0.000	71.00	1.969	0.50	112.53	2.570	0.50
104.30	Raycap DC9-48-60-24-8C-EV	1	0.75	0.000	16.00	4.788	1.00	99.15	5.735	1.00
104.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3641.85	55.880	1.00
100.00	CCI TPA-65R-BU6DA-K	3	0.75	0.000	69.00	12.709	0.60	233.83	14.494	0.60
100.00	Ericsson Air 6449 B77D	3	0.75	0.000	81.60	4.028	0.65	147.40	4.908	0.65
100.00	Ericsson AIR 6419 B77G	3	0.75	0.000	66.10	3.797	0.65	128.18	4.640	0.65
100.00	Ericsson RRUS 4478 B14	3	0.75	0.000	59.90	1.842	0.50	95.28	2.416	0.50
100.00	Raycap DC6-48-60-0-8F	1	0.75	0.000	32.80	1.360	1.00	70.00	1.784	1.00
100.00	CCI DMP65R-BU6DA	3	0.75	0.000	79.40	12.709	0.63	244.23	14.494	0.63
91.00	Empty Flat Low Profile Platfor	1	1.00	0.000	1500.00	26.100	1.00	1911.49	38.226	1.00
86.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3621.88	55.644	1.00
86.00	JMA Wireless MX08FRO665-21	3	0.75	0.000	64.50	12.489	0.64	226.82	14.264	0.64
86.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	114.56	2.543	0.50
86.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	100.73	2.543	0.50
86.00	Commscope RDIDC-9181-PF-48	1	0.75	0.000	21.90	1.867	1.00	57.84	2.435	1.00
76.00	Generic Round Stand-Off	1	1.00	0.000	187.50	5.200	1.00	244.53	6.895	1.00
73.80	Generic 2" x 4" GPS	1	1.00	0.000	5.00	0.040	1.00	6.60	0.116	1.00
72.00	VZW Unused Reserve (16 sqin)	1	1.00	0.000	0.00	0.111	1.00	0.00	0.159	1.00
68.00	Side Arm	1	1.00	0.000	126.00	5.000	1.00	180.11	7.147	1.00
68.00	VZW Unused Reserve (16 sqin)	1	1.00	0.000	0.00	0.111	1.00	0.00	0.159	1.00

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
66.30	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	28.01	1.294	1.00
66.00	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	27.99	1.293	1.00
60.00	Generic GPS	1	1.00	0.000	10.00	0.900	1.00	27.76	1.288	1.00
Totals	Row Count: 53	115			19,027.10			31,095.66		

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	128.00	6	1 1/8" Coax	1.98	0.82	N	6	1	1	90	1	Y	VERIZON WIRELESS
0.00	128.00	2	1 1/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	128.00	2	0.63" (16mm) LDF4-50A	0.63	0.15	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	124.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	124.00	1	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	124.00	1	2" conduit	2.38	3.65	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	122.00	3	1 1/8" Coax	1.98	0.82	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	110.00	3	1.99" (50.7mm) Hybrid	1.99	1.9	N	0	0	0	0	0	N	T-MOBILE
0.00	110.00	3	1 1/4" (1.25"- 31.8mm	1.25	1.05	N	0	0	0	0	0	N	T-MOBILE
0.00	100.00	5	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	3	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	3	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	2	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	100.00	1	0.39" (9.8mm) Cable	0.39	0.07	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	86.00	1	1.75" (44.5mm) Hybrid	1.75	2.72	N	0	0	0	0	0	N	DISH WIRELESS L.L.C.
0.00	73.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	66.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	66.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	60.00	1	1/2" Coax	0.63	0.15	N	0	0	0	0	0	N	T-MOBILE

SEGMENT PROPERTIES

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in ³)	Z (in ³)	Weight (lb)
0.00		0.5000	62.000	97.597	46,638.00	20.45	124.00	77.3	1481.6	0.0	0.0
5.00		0.5000	60.646	95.449	43,625.50	19.98	121.29	77.9	1416.8	0.0	1,642.2
10.00		0.5000	59.293	93.300	40,745.70	19.50	118.59	78.5	1353.5	0.0	1,605.7
15.00		0.5000	57.939	91.152	37,995.40	19.02	115.88	79	1291.6	0.0	1,569.1
20.00		0.5000	56.585	89.004	35,371.80	18.54	113.17	79.6	1231.2	0.0	1,532.6
25.00		0.5000	55.231	86.856	32,871.80	18.07	110.46	80.2	1172.2	0.0	1,496.0
30.00		0.5000	53.878	84.707	30,492.50	17.59	107.76	80.7	1114.7	0.0	1,459.5
35.00		0.5000	52.524	82.559	28,230.90	17.11	105.05	81.3	1058.6	0.0	1,422.9
40.00		0.5000	51.170	80.411	26,083.90	16.63	102.34	81.8	1004.0	0.0	1,386.4
40.50	Bot - Section 2	0.5000	51.035	80.196	25,875.40	16.59	102.07	81.9	998.6	0.0	136.6
45.00		0.5000	49.816	78.262	24,048.70	16.16	99.63	82.4	950.8	0.0	2,139.0
47.50	Top - Section 1	0.3750	49.890	58.933	18,254.80	22.05	133.04	75.5	720.7	0.0	1,166.0
50.00		0.3750	49.213	58.127	17,516.30	21.73	131.23	75.8	701.0	0.0	497.9
55.00		0.3750	47.859	56.516	16,099.70	21.09	127.62	76.6	662.6	0.0	975.3
60.00		0.3750	46.505	54.905	14,761.70	20.46	124.01	77.3	625.2	0.0	947.8
65.00		0.3750	45.152	53.293	13,499.90	19.82	120.40	78.1	588.9	0.0	920.4
66.00		0.3750	44.881	52.971	13,256.40	19.69	119.68	78.2	581.8	0.0	180.8
66.30		0.3750	44.800	52.875	13,184.00	19.65	119.47	78.3	579.6	0.0	54.0
68.00		0.3750	44.339	52.327	12,778.40	19.44	118.24	78.5	567.6	0.0	304.3
70.00		0.3750	43.798	51.682	12,312.10	19.18	116.79	78.8	553.7	0.0	353.9
72.00		0.3750	43.256	51.038	11,857.20	18.93	115.35	79.1	539.9	0.0	349.5
73.80		0.3750	42.769	50.458	11,457.50	18.70	114.05	79.4	527.6	0.0	310.8
75.00		0.3750	42.444	50.071	11,196.10	18.55	113.18	79.6	519.6	0.0	205.2
76.00		0.3750	42.173	49.749	10,981.30	18.42	112.46	79.7	512.9	0.0	169.8
80.00		0.3750	41.090	48.460	10,149.70	17.91	109.57	80.3	486.5	0.0	668.4
82.16	Bot - Section 3	0.3750	40.505	47.763	9,717.90	17.63	108.01	80.7	472.6	0.0	354.2

CALCULATED FORCES

76.00	-32.60	-21.58	0.00	-721.8	0.00	721.78	3,570.09	873.09	3,296.33	3,066.99	10.08	-1.33	0.245
80.00	-31.59	-21.32	0.00	-635.5	0.00	635.48	3,503.71	850.47	3,127.75	2,931.29	11.23	-1.4	0.226
82.16	-31.04	-21.11	0.00	-589.4	0.00	589.37	3,467.23	838.23	3,038.42	2,858.66	11.87	-1.44	0.216
85.00	-29.88	-20.93	0.00	-529.5	0.00	529.49	3,418.78	822.19	2,923.25	2,764.27	12.74	-1.48	0.201
86.00	-25.77	-18.42	0.00	-508.6	0.00	508.56	3,401.54	816.54	2,883.18	2,731.23	13.05	-1.5	0.194
87.83	-25.04	-18.25	0.00	-474.8	0.00	474.85	2,692.45	683.79	2,426.19	2,176.03	13.63	-1.53	0.228
90.00	-24.59	-18.11	0.00	-435.2	0.00	435.25	2,665.65	673.56	2,354.17	2,121.90	14.33	-1.56	0.215
91.00	-22.61	-16.95	0.00	-417.1	0.00	417.14	2,653.16	668.85	2,321.35	2,097.06	14.66	-1.58	0.208
95.00	-21.80	-16.58	0.00	-349.4	0.00	349.36	2,602.34	650.00	2,192.36	1,998.45	16.01	-1.64	0.184
100.00	-19.55	-14.37	0.00	-266.5	0.00	266.48	2,536.86	626.44	2,036.30	1,876.95	17.76	-1.7	0.150
104.00	-15.91	-12.54	0.00	-209.0	0.00	209.01	2,482.92	607.58	1,915.61	1,781.28	19.21	-1.75	0.124
104.30	-15.84	-12.38	0.00	-205.2	0.00	205.25	2,478.81	606.17	1,906.70	1,774.16	19.32	-1.75	0.122
104.70	-15.27	-12.20	0.00	-200.3	0.00	200.30	2,473.33	604.29	1,894.86	1,764.69	19.47	-1.76	0.120
104.80	-15.10	-12.12	0.00	-199.1	0.00	199.08	2,471.96	603.81	1,891.91	1,762.32	19.5	-1.76	0.119
104.90	-15.06	-12.07	0.00	-197.7	0.00	197.73	2,470.59	603.34	1,888.96	1,759.95	19.54	-1.76	0.119
105.00	-15.04	-12.01	0.00	-196.5	0.00	196.52	2,469.21	602.87	1,886.01	1,757.59	19.58	-1.76	0.118
106.60	-14.76	-11.90	0.00	-177.3	0.00	177.31	2,447.10	595.33	1,839.13	1,719.87	20.17	-1.78	0.110
107.00	-14.69	-11.74	0.00	-172.6	0.00	172.55	2,441.54	593.45	1,827.50	1,710.48	20.32	-1.78	0.107
110.00	-10.53	-8.65	0.00	-133.9	0.00	133.89	2,399.39	579.31	1,741.47	1,640.54	21.45	-1.81	0.086
115.00	-9.79	-8.26	0.00	-90.6	0.00	90.63	2,327.39	555.74	1,602.70	1,525.98	23.36	-1.84	0.064
120.00	-6.86	-6.90	0.00	-49.3	0.00	49.34	2,252.90	532.18	1,469.69	1,413.90	25.31	-1.87	0.038
122.50	-6.42	-6.53	0.00	-32.1	0.00	32.09	2,203.02	520.40	1,405.35	1,351.68	26.29	-1.88	0.027
122.60	-6.25	-6.29	0.00	-31.4	0.00	31.44	2,201.02	519.93	1,402.80	1,349.22	26.33	-1.88	0.026
122.90	-5.96	-5.53	0.00	-29.6	0.00	29.55	2,195.04	518.51	1,395.19	1,341.85	26.44	-1.88	0.025
123.40	-5.71	-5.38	0.00	-26.8	0.00	26.79	2,185.06	516.16	1,382.54	1,329.62	26.64	-1.88	0.023
124.60	-5.53	-5.18	0.00	-20.3	0.00	20.33	2,161.12	510.50	1,352.41	1,300.49	27.11	-1.88	0.018
124.90	-5.44	-4.86	0.00	-18.8	0.00	18.78	2,155.14	509.09	1,344.93	1,293.26	27.23	-1.88	0.017
125.00	-5.43	-4.85	0.00	-18.3	0.00	18.29	2,153.14	508.62	1,342.44	1,290.85	27.27	-1.88	0.017
125.30	-5.17	-4.61	0.00	-16.8	0.00	16.84	2,147.16	507.20	1,334.99	1,283.65	27.39	-1.88	0.016
128.00	-3.14	-2.62	0.00	-4.4	0.00	4.40	2,093.29	494.48	1,268.86	1,219.72	28.45	-1.88	0.005
129.00	-3.06	-1.78	0.00	-1.8	0.00	1.78	2,073.34	489.76	1,244.79	1,196.45	28.85	-1.88	0.003
130.00	0.00	-1.68	0.00	0.0	0.00	0.00	2,053.39	485.05	1,220.95	1,173.41	29.24	-1.88	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period (S_S):	0.233
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.056
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a :	1.600
Site Coefficient F_v :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.249
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.090
Seismic Response Coefficient (C_s):	0.037
Upper Limit C_s :	0.037
Lower Limit C_s :	0.030
Period based on Rayleigh Method (sec):	1.610
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	1.550
Total Unfactored Dead Load:	52.010 k
Seismic Base Shear (E):	1.930 k

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)
54	129.5	95	181	0.004	8	118
53	128.5	95	181	0.004	8	119
52	126.65	283	526	0.011	22	354
51	125.15	32	58	0.001	2	40
50	124.95	11	19	0.000	1	13
49	124.75	32	58	0.001	2	40
48	124	131	236	0.005	10	164
47	123.15	56	100	0.002	4	70
46	122.75	34	60	0.001	3	42
45	122.55	11	20	0.000	1	14
44	121.25	291	504	0.011	21	363
43	117.5	601	992	0.022	42	751
42	112.5	624	962	0.021	40	779
41	108.5	412	600	0.013	25	514
40	106.8	56	79	0.002	3	69
39	105.8	223	313	0.007	13	279
38	104.95	14	19	0.000	1	18
37	104.85	14	19	0.000	1	18
36	104.75	14	19	0.000	1	18
35	104.5	56	78	0.002	3	70
34	104.15	42	58	0.001	2	53
33	102	573	759	0.016	32	716
32	97.5	816	1,008	0.022	42	1,020
31	93	669	768	0.017	32	836
30	90.5	170	187	0.004	8	212
29	88.915	371	397	0.009	17	464
28	86.915	604	624	0.014	26	755
27	85.5	336	338	0.007	14	420
26	83.5817	963	937	0.020	39	1,204
25	81.0817	445	413	0.009	17	557
24	78	837	731	0.016	31	1,046
23	75.5	212	176	0.004	7	265
22	74.4	256	208	0.004	9	320
21	72.9	387	304	0.007	13	483
20	71	434	328	0.007	14	543
19	69	439	317	0.007	13	548
18	67.15	376	260	0.006	11	470
17	66.15	67	45	0.001	2	83

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)
16	65.5	223	149	0.003	6	279
15	62.5	1,134	702	0.015	29	1,417
14	57.5	1,162	632	0.014	27	1,452
13	52.5	1,189	561	0.012	24	1,486
12	48.75	605	254	0.006	11	756
11	46.25	1,273	493	0.011	21	1,591
10	42.75	2,332	800	0.017	34	2,914
9	40.25	158	49	0.001	2	197
8	37.5	1,600	448	0.010	19	2,000
7	32.5	1,637	367	0.008	15	2,045
6	27.5	1,673	289	0.006	12	2,091
5	22.5	1,710	216	0.005	9	2,137
4	17.5	1,746	149	0.003	6	2,183
3	12.5	1,783	90	0.002	4	2,228
2	7.5	1,820	42	0.001	2	2,274
1	2.5	1,856	8	0.000	0	2,320
Generic Flat Platform with Handrails	130	2,500	4,830	0.105	203	3,124
Generic Flat Platform with Handrails	104	2,500	3,414	0.074	144	3,124
Generic Flat Platform with Handrails	86	2,500	2,541	0.055	107	3,124
VZW Unused Reserve (4255.12 sqin)	129	0	0	0.000	0	0
Generic 2" x 8" GPS	128	20	38	0.001	2	25
Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	128	13	25	0.000	1	16
Kaelus KA-6030	128	70	133	0.003	6	88
Samsung RT4401-48A	128	56	105	0.002	4	70
Samsung B5/B13 RRH-BR04C	128	211	398	0.009	17	264
Samsung B2/B66A RRH-BR049	128	253	478	0.010	20	316
Commscope TD-850B-LTE78-43	128	159	300	0.006	13	199
Raycap RVZDC-3315-PF-48	128	43	81	0.002	3	53
Samsung MT6407-77A	128	245	462	0.010	19	306
Quintel QS6656-5	128	390	736	0.016	31	487
Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	125.3	192	350	0.008	15	240
Andrew Microwaves VHLP800-11 (49 lbs)	124.9	49	89	0.002	4	61
Generic 24" x 24" Junction Box	124.6	20	36	0.001	2	25
Alcatel-Lucent RRH2x50-08	123.4	159	283	0.006	12	198
Commscope NNVV-65B-R4	122.9	232	411	0.009	17	290
Alcatel-Lucent 1900MHz RRH	122.6	132	233	0.005	10	165
Generic 42" x 12" Panel	122.5	90	159	0.004	7	112
Generic Flat Low Profile Platform	120	1,875	3,199	0.070	134	2,343
Generic Flat Low Profile Platform	110	1,875	2,794	0.061	117	2,343
Ericsson Radio 4449 B71 B85A	110	225	335	0.007	14	281
Ericsson 4460 BAND 2/25	110	327	487	0.011	20	409
Ericsson Air6449 B41	110	312	465	0.010	20	390
RFS APXVAARR24_43-U-NA20	110	384	572	0.012	24	480
Generic GPS	107	10	14	0.000	1	12
Generic GPS	106.6	10	14	0.000	1	12
Generic GPS	66.3	10	7	0.000	0	12
Generic GPS	66	10	7	0.000	0	12
Generic GPS	60	10	6	0.000	0	12
Raycap DC6-48-60-18-8F	104.9	20	28	0.001	1	25
Ericsson Radio 4415 B30	104.8	129	178	0.004	7	161
Ericsson RRUS 8843 B2, B66A	104.7	216	298	0.006	13	270
Ericsson RRUS 4449 B5, B12	104.7	213	294	0.006	12	266
Raycap DC9-48-60-24-8C-EV	104.3	16	22	0.000	1	20
Raycap DC6-48-60-0-8F	100	33	42	0.001	2	41
Ericsson RRUS 4478 B14	100	180	231	0.005	10	225
Ericsson AIR 6419 B77G	100	198	255	0.006	11	248
Ericsson Air 6449 B77D	100	245	315	0.007	13	306
CCI TPA-65R-BU6DA-K	100	207	266	0.006	11	259
CCI DMP65R-BU6DA	100	238	306	0.007	13	298
Empty Flat Low Profile Platform	91	1,500	1,665	0.036	70	1,875
Commscope RDIDC-9181-PF-48	86	22	22	0.000	1	27

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)
Fujitsu TA08025-B604	86	192	195	0.004	8	240
Fujitsu TA08025-B605	86	225	229	0.005	10	281
JMA Wireless MX08FRO665-21	86	194	197	0.004	8	242
Generic Round Stand-Off	76	188	157	0.003	7	234
Generic 2" x 4" GPS	73.8	5	4	0.000	0	6
VZW Unused Reserve (16 sqin)	72	0	0	0.000	0	0
VZW Unused Reserve (16 sqin)	68	0	0	0.000	0	0
Side Arm	68	126	89	0.002	4	157
Totals:		52,009	45,924	1.000	1,931	64,996

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)
54	129.5	95	181	0.004	8	80
53	128.5	95	181	0.004	8	81
52	126.65	283	526	0.011	22	241
51	125.15	32	58	0.001	2	27
50	124.95	11	19	0.000	1	9
49	124.75	32	58	0.001	2	27
48	124	131	236	0.005	10	112
47	123.15	56	100	0.002	4	48
46	122.75	34	60	0.001	3	29
45	122.55	11	20	0.000	1	10
44	121.25	291	504	0.011	21	247
43	117.5	601	992	0.022	42	511
42	112.5	624	962	0.021	40	530
41	108.5	412	600	0.013	25	350
40	106.8	56	79	0.002	3	47
39	105.8	223	313	0.007	13	190
38	104.95	14	19	0.000	1	12
37	104.85	14	19	0.000	1	12
36	104.75	14	19	0.000	1	12
35	104.5	56	78	0.002	3	48
34	104.15	42	58	0.001	2	36
33	102	573	759	0.016	32	487
32	97.5	816	1,008	0.022	42	694
31	93	669	768	0.017	32	569
30	90.5	170	187	0.004	8	144
29	88.915	371	397	0.009	17	316
28	86.915	604	624	0.014	26	514
27	85.5	336	338	0.007	14	285
26	83.5817	963	937	0.020	39	819
25	81.0817	445	413	0.009	17	379
24	78	837	731	0.016	31	712
23	75.5	212	176	0.004	7	180
22	74.4	256	208	0.004	9	218
21	72.9	387	304	0.007	13	329
20	71	434	328	0.007	14	369
19	69	439	317	0.007	13	373
18	67.15	376	260	0.006	11	320
17	66.15	67	45	0.001	2	57
16	65.5	223	149	0.003	6	190
15	62.5	1,134	702	0.015	29	964
14	57.5	1,162	632	0.014	27	988
13	52.5	1,189	561	0.012	24	1,011
12	48.75	605	254	0.006	11	514
11	46.25	1,273	493	0.011	21	1,082
10	42.75	2,332	800	0.017	34	1,982
9	40.25	158	49	0.001	2	134
8	37.5	1,600	448	0.010	19	1,361

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)
7	32.5	1,637	367	0.008	15	1,392
6	27.5	1,673	289	0.006	12	1,423
5	22.5	1,710	216	0.005	9	1,454
4	17.5	1,746	149	0.003	6	1,485
3	12.5	1,783	90	0.002	4	1,516
2	7.5	1,820	42	0.001	2	1,547
1	2.5	1,856	8	0.000	0	1,578
Generic Flat Platform with Handrails	130	2,500	4,830	0.105	203	2,126
Generic Flat Platform with Handrails	104	2,500	3,414	0.074	144	2,126
Generic Flat Platform with Handrails	86	2,500	2,541	0.055	107	2,126
VZW Unused Reserve (4255.12 sqin)	129	0	0	0.000	0	0
Generic 2" x 8" GPS	128	20	38	0.001	2	17
Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	128	13	25	0.000	1	11
Kaelus KA-6030	128	70	133	0.003	6	60
Samsung RT4401-48A	128	56	105	0.002	4	47
Samsung B5/B13 RRH-BR04C	128	211	398	0.009	17	179
Samsung B2/B66A RRH-BR049	128	253	478	0.010	20	215
Commscope TD-850B-LTE78-43	128	159	300	0.006	13	135
Raycap RVZDC-3315-PF-48	128	43	81	0.002	3	36
Samsung MT6407-77A	128	245	462	0.010	19	208
Quintel QS6656-5	128	390	736	0.016	31	332
Alcatel-Lucent 800 MHz 2X50W RRH w/ Filter	125.3	192	350	0.008	15	163
Andrew Microwaves VHLP800-11 (49 lbs)	124.9	49	89	0.002	4	42
Generic 24" x 24" Junction Box	124.6	20	36	0.001	2	17
Alcatel-Lucent RRH2x50-08	123.4	159	283	0.006	12	135
Commscope NNVV-65B-R4	122.9	232	411	0.009	17	197
Alcatel-Lucent 1900MHz RRH	122.6	132	233	0.005	10	112
Generic 42" x 12" Panel	122.5	90	159	0.004	7	77
Generic Flat Low Profile Platform	120	1,875	3,199	0.070	134	1,594
Generic Flat Low Profile Platform	110	1,875	2,794	0.061	117	1,594
Ericsson Radio 4449 B71 B85A	110	225	335	0.007	14	191
Ericsson 4460 BAND 2/25	110	327	487	0.011	20	278
Ericsson Air6449 B41	110	312	465	0.010	20	265
RFS APXVAARR24_43-U-NA20	110	384	572	0.012	24	326
Generic GPS	107	10	14	0.000	1	9
Generic GPS	106.6	10	14	0.000	1	9
Generic GPS	66.3	10	7	0.000	0	9
Generic GPS	66	10	7	0.000	0	9
Generic GPS	60	10	6	0.000	0	9
Raycap DC6-48-60-18-8F	104.9	20	28	0.001	1	17
Ericsson Radio 4415 B30	104.8	129	178	0.004	7	110
Ericsson RRUS 8843 B2, B66A	104.7	216	298	0.006	13	184
Ericsson RRUS 4449 B5, B12	104.7	213	294	0.006	12	181
Raycap DC9-48-60-24-8C-EV	104.3	16	22	0.000	1	14
Raycap DC6-48-60-0-8F	100	33	42	0.001	2	28
Ericsson RRUS 4478 B14	100	180	231	0.005	10	153
Ericsson AIR 6419 B77G	100	198	255	0.006	11	169
Ericsson Air 6449 B77D	100	245	315	0.007	13	208
CCI TPA-65R-BU6DA-K	100	207	266	0.006	11	176
CCI DMP65R-BU6DA	100	238	306	0.007	13	203
Empty Flat Low Profile Platform	91	1,500	1,665	0.036	70	1,275
Commscope RDIDC-9181-PF-48	86	22	22	0.000	1	19
Fujitsu TA08025-B604	86	192	195	0.004	8	163
Fujitsu TA08025-B605	86	225	229	0.005	10	191
JMA Wireless MX08FRO665-21	86	194	197	0.004	8	165
Generic Round Stand-Off	76	188	157	0.003	7	159
Generic 2" x 4" GPS	73.8	5	4	0.000	0	4
VZW Unused Reserve (16 sqin)	72	0	0	0.000	0	0
VZW Unused Reserve (16 sqin)	68	0	0	0.000	0	0
Side Arm	68	126	89	0.002	4	107
Totals:		52,009	45,924	1.000	1,931	44,223

SEISMIC FORCES

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	Seismic (Reduced DL)	
				C _v	Horizontal Force (lb) / Vertical Force (lb)

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	-62.68	-1.93	0.00	-196.67	0.00	196.67	6,793.61	1,712.83	9,515	8,594.34	0.00	0.00	0.03
5.00	-60.40	-1.94	0.00	-187.01	0.00	187.01	6,692.31	1,675.12	9,100	8,278.33	0.00	-0.01	0.03
10.00	-58.17	-1.94	0.00	-177.32	0.00	177.32	6,588.83	1,637.42	8,695	7,965.37	0.01	-0.01	0.03
15.00	-55.99	-1.94	0.00	-167.63	0.00	167.63	6,483.18	1,599.72	8,300	7,655.67	0.03	-0.02	0.03
20.00	-53.85	-1.93	0.00	-157.94	0.00	157.94	6,375.36	1,562.02	7,913	7,349.39	0.05	-0.02	0.03
25.00	-51.76	-1.93	0.00	-148.28	0.00	148.28	6,265.37	1,524.32	7,536	7,046.72	0.08	-0.03	0.03
30.00	-49.72	-1.91	0.00	-138.65	0.00	138.65	6,153.21	1,486.61	7,168	6,747.85	0.11	-0.04	0.03
35.00	-47.72	-1.90	0.00	-129.07	0.00	129.07	6,038.88	1,448.91	6,809	6,452.96	0.15	-0.04	0.03
40.00	-47.52	-1.90	0.00	-119.57	0.00	119.57	5,922.38	1,411.21	6,459	6,162.22	0.20	-0.05	0.03
40.50	-44.61	-1.87	0.00	-118.62	0.00	118.62	5,910.61	1,407.44	6,425	6,133.39	0.21	-0.05	0.03
45.00	-43.01	-1.85	0.00	-110.22	0.00	110.22	5,803.70	1,373.51	6,119	5,875.83	0.26	-0.06	0.03
47.50	-42.26	-1.84	0.00	-105.60	0.00	105.60	4,002.81	1,034.27	4,626	4,079.20	0.29	-0.06	0.04
50.00	-40.77	-1.82	0.00	-101.01	0.00	101.01	3,967.67	1,020.13	4,500	3,987.71	0.32	-0.06	0.04
55.00	-39.32	-1.79	0.00	-91.92	0.00	91.92	3,895.77	991.85	4,254	3,806.08	0.39	-0.07	0.03
60.00	-37.89	-1.77	0.00	-82.94	0.00	82.94	3,821.70	963.58	4,015	3,626.44	0.46	-0.08	0.03
65.00	-37.61	-1.76	0.00	-74.10	0.00	74.10	3,745.46	935.30	3,783	3,448.96	0.55	-0.08	0.03
66.00	-37.52	-1.76	0.00	-72.34	0.00	72.34	3,729.95	929.64	3,737	3,413.73	0.57	-0.09	0.03
66.30	-37.03	-1.75	0.00	-71.81	0.00	71.81	3,725.28	927.95	3,724	3,403.19	0.57	-0.09	0.03
68.00	-36.33	-1.74	0.00	-68.83	0.00	68.83	3,698.67	918.33	3,647	3,343.58	0.60	-0.09	0.03
70.00	-35.79	-1.72	0.00	-65.36	0.00	65.36	3,667.05	907.02	3,557	3,273.81	0.64	-0.09	0.03
72.00	-35.30	-1.71	0.00	-61.91	0.00	61.91	3,635.07	895.71	3,469	3,204.45	0.68	-0.10	0.03
73.80	-34.98	-1.70	0.00	-58.83	0.00	58.83	3,606.00	885.53	3,391	3,142.39	0.72	-0.10	0.03
75.00	-34.71	-1.70	0.00	-56.79	0.00	56.79	3,586.46	878.75	3,339	3,101.20	0.74	-0.10	0.03
76.00	-33.43	-1.66	0.00	-55.09	0.00	55.09	3,570.09	873.09	3,296	3,066.99	0.76	-0.10	0.03
80.00	-32.87	-1.64	0.00	-48.46	0.00	48.46	3,503.71	850.47	3,128	2,931.29	0.85	-0.11	0.03
82.16	-31.67	-1.60	0.00	-44.91	0.00	44.91	3,467.23	838.23	3,038	2,858.66	0.90	-0.11	0.03
85.00	-31.25	-1.59	0.00	-40.36	0.00	40.36	3,418.78	822.19	2,923	2,764.27	0.96	-0.11	0.02
86.00	-26.58	-1.42	0.00	-38.77	0.00	38.77	3,401.54	816.54	2,883	2,731.23	0.99	-0.11	0.02
87.83	-26.12	-1.40	0.00	-36.17	0.00	36.17	2,692.45	683.79	2,426	2,176.03	1.03	-0.12	0.03
90.00	-25.91	-1.40	0.00	-33.13	0.00	33.13	2,665.65	673.56	2,354	2,121.90	1.09	-0.12	0.03
91.00	-23.19	-1.29	0.00	-31.73	0.00	31.73	2,653.16	668.85	2,321	2,097.06	1.11	-0.12	0.02
95.00	-22.17	-1.25	0.00	-26.57	0.00	26.57	2,602.34	650.00	2,192	1,998.45	1.21	-0.12	0.02
100.00	-20.08	-1.15	0.00	-20.34	0.00	20.34	2,536.86	626.44	2,036	1,876.95	1.35	-0.13	0.02
104.00	-16.91	-1.00	0.00	-15.73	0.00	15.73	2,482.92	607.58	1,916	1,781.28	1.46	-0.13	0.02
104.30	-16.82	-1.00	0.00	-15.43	0.00	15.43	2,478.81	606.17	1,907	1,774.16	1.46	-0.13	0.02
104.70	-16.26	-0.97	0.00	-15.03	0.00	15.03	2,473.33	604.29	1,895	1,764.69	1.48	-0.13	0.02
104.80	-16.08	-0.96	0.00	-14.93	0.00	14.93	2,471.96	603.81	1,892	1,762.32	1.48	-0.13	0.02
104.90	-16.04	-0.96	0.00	-14.83	0.00	14.83	2,470.59	603.34	1,889	1,759.95	1.48	-0.13	0.02
105.00	-15.76	-0.94	0.00	-14.74	0.00	14.74	2,469.21	602.87	1,886	1,757.59	1.48	-0.13	0.02
106.60	-15.68	-0.94	0.00	-13.23	0.00	13.23	2,447.10	595.33	1,839	1,719.87	1.53	-0.14	0.01
107.00	-15.15	-0.91	0.00	-12.85	0.00	12.85	2,441.54	593.45	1,828	1,710.48	1.54	-0.14	0.01
110.00	-10.47	-0.67	0.00	-10.11	0.00	10.11	2,399.39	579.31	1,741	1,640.54	1.63	-0.14	0.01
115.00	-9.72	-0.62	0.00	-6.77	0.00	6.77	2,327.39	555.74	1,603	1,525.98	1.77	-0.14	0.01
120.00	-7.02	-0.46	0.00	-3.66	0.00	3.66	2,252.90	532.18	1,470	1,413.90	1.92	-0.14	0.01
122.50	-6.89	-0.45	0.00	-2.50	0.00	2.50	2,203.02	520.40	1,405	1,351.68	1.99	-0.14	0.01
122.60	-6.68	-0.44	0.00	-2.46	0.00	2.46	2,201.02	519.93	1,403	1,349.22	2.00	-0.14	0.01
122.90	-6.32	-0.42	0.00	-2.32	0.00	2.32	2,195.04	518.51	1,395	1,341.85	2.01	-0.14	0.01
123.40	-5.96	-0.40	0.00	-2.11	0.00	2.11	2,185.06	516.16	1,383	1,329.62	2.02	-0.14	0.00
124.60	-5.89	-0.39	0.00	-1.64	0.00	1.64	2,161.12	510.50	1,352	1,300.49	2.06	-0.14	0.00
124.90	-5.82	-0.39	0.00	-1.52	0.00	1.52	2,155.14	509.09	1,345	1,293.26	2.07	-0.14	0.00
125.00	-5.78	-0.39	0.00	-1.48	0.00	1.48	2,153.14	508.62	1,342	1,290.85	2.07	-0.14	0.00
125.30	-5.19	-0.35	0.00	-1.37	0.00	1.37	2,147.16	507.20	1,335	1,283.65	2.08	-0.14	0.00
128.00	-3.24	-0.22	0.00	-0.43	0.00	0.43	2,093.29	494.48	1,269	1,219.72	2.16	-0.14	0.00
129.00	-3.12	-0.21	0.00	-0.21	0.00	0.21	2,073.34	489.76	1,245	1,196.45	2.19	-0.14	0.00

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
130.00	0.00	-0.20	0.00	0.00	0.00	0.00	2,053.39	485.05	1,221	1,173.41	2.22	-0.14	0.00

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-42.64	-1.93	0.00	-195.11	0.00	195.11	6,793.61	1,712.83	9,515	8,594.34	0.00	0.00	0.03
5.00	-41.10	-1.93	0.00	-185.45	0.00	185.45	6,692.31	1,675.12	9,100	8,278.33	0.00	-0.01	0.03
10.00	-39.58	-1.93	0.00	-175.78	0.00	175.78	6,588.83	1,637.42	8,695	7,965.37	0.01	-0.01	0.03
15.00	-38.10	-1.93	0.00	-166.11	0.00	166.11	6,483.18	1,599.72	8,300	7,655.67	0.03	-0.02	0.03
20.00	-36.64	-1.93	0.00	-156.46	0.00	156.46	6,375.36	1,562.02	7,913	7,349.39	0.05	-0.02	0.03
25.00	-35.22	-1.92	0.00	-146.83	0.00	146.83	6,265.37	1,524.32	7,536	7,046.72	0.08	-0.03	0.03
30.00	-33.83	-1.90	0.00	-137.25	0.00	137.25	6,153.21	1,486.61	7,168	6,747.85	0.11	-0.04	0.03
35.00	-32.47	-1.89	0.00	-127.73	0.00	127.73	6,038.88	1,448.91	6,809	6,452.96	0.15	-0.04	0.03
40.00	-32.33	-1.89	0.00	-118.29	0.00	118.29	5,922.38	1,411.21	6,459	6,162.22	0.20	-0.05	0.03
40.50	-30.35	-1.85	0.00	-117.35	0.00	117.35	5,910.61	1,407.44	6,425	6,133.39	0.21	-0.05	0.02
45.00	-29.27	-1.83	0.00	-109.01	0.00	109.01	5,803.70	1,373.51	6,119	5,875.83	0.25	-0.05	0.02
47.50	-28.75	-1.82	0.00	-104.43	0.00	104.43	4,002.81	1,034.27	4,626	4,079.20	0.28	-0.06	0.03
50.00	-27.74	-1.80	0.00	-99.86	0.00	99.86	3,967.67	1,020.13	4,500	3,987.71	0.32	-0.06	0.03
55.00	-26.75	-1.78	0.00	-90.85	0.00	90.85	3,895.77	991.85	4,254	3,806.08	0.38	-0.07	0.03
60.00	-25.78	-1.75	0.00	-81.96	0.00	81.96	3,821.70	963.58	4,015	3,626.44	0.46	-0.08	0.03
65.00	-25.59	-1.75	0.00	-73.20	0.00	73.20	3,745.46	935.30	3,783	3,448.96	0.54	-0.08	0.03
66.00	-25.52	-1.74	0.00	-71.46	0.00	71.46	3,729.95	929.64	3,737	3,413.73	0.56	-0.09	0.03
66.30	-25.20	-1.73	0.00	-70.94	0.00	70.94	3,725.28	927.95	3,724	3,403.19	0.57	-0.09	0.03
68.00	-24.72	-1.72	0.00	-67.99	0.00	67.99	3,698.67	918.33	3,647	3,343.58	0.60	-0.09	0.03
70.00	-24.35	-1.70	0.00	-64.55	0.00	64.55	3,667.05	907.02	3,557	3,273.81	0.64	-0.09	0.03
72.00	-24.02	-1.69	0.00	-61.15	0.00	61.15	3,635.07	895.71	3,469	3,204.45	0.67	-0.09	0.03
73.80	-23.80	-1.68	0.00	-58.10	0.00	58.10	3,606.00	885.53	3,391	3,142.39	0.71	-0.10	0.03
75.00	-23.62	-1.68	0.00	-56.08	0.00	56.08	3,586.46	878.75	3,339	3,101.20	0.73	-0.10	0.03
76.00	-22.74	-1.64	0.00	-54.41	0.00	54.41	3,570.09	873.09	3,296	3,066.99	0.76	-0.10	0.02
80.00	-22.37	-1.62	0.00	-47.85	0.00	47.85	3,503.71	850.47	3,128	2,931.29	0.84	-0.11	0.02
82.16	-21.55	-1.58	0.00	-44.34	0.00	44.34	3,467.23	838.23	3,038	2,858.66	0.89	-0.11	0.02
85.00	-21.26	-1.57	0.00	-39.85	0.00	39.85	3,418.78	822.19	2,923	2,764.27	0.95	-0.11	0.02
86.00	-18.08	-1.40	0.00	-38.28	0.00	38.28	3,401.54	816.54	2,883	2,731.23	0.98	-0.11	0.02
87.83	-17.77	-1.39	0.00	-35.72	0.00	35.72	2,692.45	683.79	2,426	2,176.03	1.02	-0.11	0.02
90.00	-17.62	-1.38	0.00	-32.71	0.00	32.71	2,665.65	673.56	2,354	2,121.90	1.07	-0.12	0.02
91.00	-15.78	-1.27	0.00	-31.33	0.00	31.33	2,653.16	668.85	2,321	2,097.06	1.10	-0.12	0.02
95.00	-15.09	-1.23	0.00	-26.23	0.00	26.23	2,602.34	650.00	2,192	1,998.45	1.20	-0.12	0.02
100.00	-13.66	-1.14	0.00	-20.08	0.00	20.08	2,536.86	626.44	2,036	1,876.95	1.33	-0.13	0.02
104.00	-11.50	-0.99	0.00	-15.53	0.00	15.53	2,482.92	607.58	1,916	1,781.28	1.44	-0.13	0.01
104.30	-11.44	-0.98	0.00	-15.23	0.00	15.23	2,478.81	606.17	1,907	1,774.16	1.45	-0.13	0.01
104.70	-11.06	-0.96	0.00	-14.84	0.00	14.84	2,473.33	604.29	1,895	1,764.69	1.46	-0.13	0.01
104.80	-10.94	-0.95	0.00	-14.74	0.00	14.74	2,471.96	603.81	1,892	1,762.32	1.46	-0.13	0.01
104.90	-10.91	-0.95	0.00	-14.65	0.00	14.65	2,470.59	603.34	1,889	1,759.95	1.47	-0.13	0.01
105.00	-10.72	-0.93	0.00	-14.55	0.00	14.55	2,469.21	602.87	1,886	1,757.59	1.47	-0.13	0.01
106.60	-10.67	-0.93	0.00	-13.06	0.00	13.06	2,447.10	595.33	1,839	1,719.87	1.51	-0.13	0.01
107.00	-10.31	-0.90	0.00	-12.69	0.00	12.69	2,441.54	593.45	1,828	1,710.48	1.52	-0.13	0.01
110.00	-7.12	-0.66	0.00	-9.99	0.00	9.99	2,399.39	579.31	1,741	1,640.54	1.61	-0.14	0.01
115.00	-6.61	-0.62	0.00	-6.69	0.00	6.69	2,327.39	555.74	1,603	1,525.98	1.75	-0.14	0.01
120.00	-4.77	-0.46	0.00	-3.61	0.00	3.61	2,252.90	532.18	1,470	1,413.90	1.90	-0.14	0.01
122.50	-4.69	-0.45	0.00	-2.47	0.00	2.47	2,203.02	520.40	1,405	1,351.68	1.97	-0.14	0.00
122.60	-4.55	-0.44	0.00	-2.43	0.00	2.43	2,201.02	519.93	1,403	1,349.22	1.98	-0.14	0.00
122.90	-4.30	-0.41	0.00	-2.29	0.00	2.29	2,195.04	518.51	1,395	1,341.85	1.98	-0.14	0.00
123.40	-4.05	-0.39	0.00	-2.09	0.00	2.09	2,185.06	516.16	1,383	1,329.62	2.00	-0.14	0.00
124.60	-4.01	-0.39	0.00	-1.62	0.00	1.62	2,161.12	510.50	1,352	1,300.49	2.04	-0.14	0.00
124.90	-3.96	-0.38	0.00	-1.50	0.00	1.50	2,155.14	509.09	1,345	1,293.26	2.04	-0.14	0.00
125.00	-3.93	-0.38	0.00	-1.46	0.00	1.46	2,153.14	508.62	1,342	1,290.85	2.05	-0.14	0.00
125.30	-3.53	-0.34	0.00	-1.35	0.00	1.35	2,147.16	507.20	1,335	1,283.65	2.06	-0.14	0.00
128.00	-2.21	-0.22	0.00	-0.42	0.00	0.42	2,093.29	494.48	1,269	1,219.72	2.14	-0.14	0.00

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
129.00	-2.13	-0.21	0.00	-0.21	0.00	0.21	2,073.34	489.76	1,245	1,196.45	2.17	-0.14	0.00
130.00	0.00	-0.20	0.00	0.00	0.00	0.00	2,053.39	485.05	1,221	1,173.41	2.20	-0.14	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	28.03	0.00	62.39	0.00	0.00	2637.48	47.50	0.35
0.9D + 1.0W	28.01	0.00	46.79	0.00	0.00	2621.37	47.50	0.34
1.2D + 1.0Di + 1.0Wi	7.48	0.00	81.36	0.00	0.00	686.87	47.50	0.1
1.2D + 1.0Ev + 1.0Eh	1.94	0.00	62.68	0.00	0.00	196.67	47.50	0.04
0.9D - 1.0Ev + 1.0Eh	1.93	0.00	42.64	0.00	0.00	195.11	47.50	0.03
1.0D + 1.0W	6.59	0.00	52.01	0.00	0.00	618.06	47.50	0.09

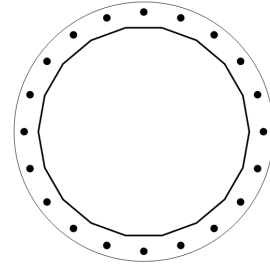
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
2637.48	62.39	28.03

PLATE PARAMETERS (ID# 26392)

Width:	77	in
Shape:	Round	
Thickness:	2	in
Grade:	A871-60	
Yield Strength:	60	ksi
Tensile Strength:	75	ksi
Rod Detail Type:	d	
Clear Distance	3	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	54	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#27086]	Radial	20	2.25	71	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	62"Ø x 0.5" (18 Sides)	96.1143	-	-	45449.07	-
Bolt Group	Original (20) 2.25"Ø	3.9761	3.2477	0.8393	37975.30	4.5

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	62"Ø x 0.5" (18 Sides)	2637.5	62.39	28.03	1.000
Bolt Group	Original (20) 2.25"Ø	2637.5	-	28.03	1.000

BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	62.12	in	Flat Width:	10.954	in
Point-to-Point Diameter:	63.08	in	Flat Radians:	0.349	rad
Orientation Offset:	-	°			

PLATE PROPERTIES

Neutral Axis:	54	°
Bend Line Limits:	2.031 to 2.995	rad

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	40.919	0.00	40.919	563.5	2209.6	25.5%
Corners	39.425	0.00	39.425	430.3	2129.0	20.2%
Circumferential	47.782	0.00	47.782	735.3	2580.3	28.5%

PLASTIC ANCHOR ROD ANALYSIS

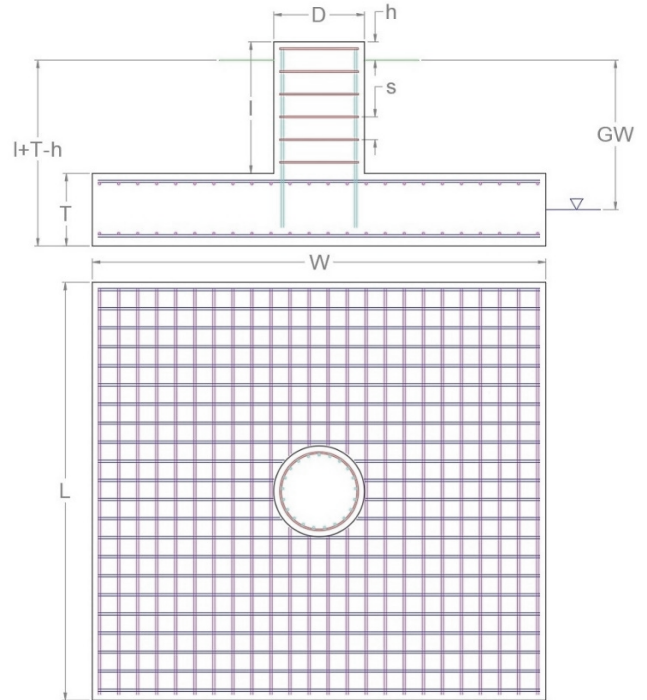
Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	20	2.25	79.7	2.2	243.6	34.5%

APPLIED GLOBAL REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
2,637.48	62.39	28.03

FOUNDATION PARAMETERS

Mat Length:	L	29.5	ft
Mat Width:	W	29.5	ft
Mat Thickness:	T	3	ft
Base Depth:	L+T-h	4.5	ft
Pier Shape:		Round	
Pier Diameter:	D	8	ft
Pier Height above Grade:	h	1	ft
Concrete Compressive Strength:		4,000	psi
Mat Top Rebar:		(28) #8 bars [60 ksi]	
Mat Bottom Rebar:		(44) #8 bars [60 ksi]	
Pier Vertical Rebar:		(44) #8 bars [60 ksi]	
Pier Rebar Ties:	s	#4 bars @ 8.0" 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	6	ft
Soil Unit Weight:		100	pcf
Ultimate Skin Friction:		0	psf
Ultimate Bearing Pressure:		6,000	psf
Bearing Pressure Type:		Gross	
Coefficient of Shear Friction:		0.6	

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, $M_{u,Design} / \Phi_m M_n$
2,791.64	7,981.22	35.0%

SOIL BEARING ANALYSIS

Net Bearing Pressure, $P_{u,Net}$ (psf)	Nominal Bearing Capacity, $\Phi_b P_n$ (k-ft)	Bearing Pressure Controlling Load Direction	Soil Bearing Usage, $P_{u,net} / \Phi_b P_n$
946.00	4,500.00	Diagonal to Pad Edge	21.0%

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, $V_u / \Phi_s V_n$
28.03	0.00	300.0	26.55	283.37	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, $V_u / \Phi_c V_n$
99.93	1,034.08	Diagonal to Pad Edge	9.7%

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, $v_u / \Phi_c v_n$
27.9	189.7	14.7%

MAT REINFORCING MOMENT TRANSFER ANALYSIS

Moment Transfer Effective Flexural Width, w_t (in)	Neutral Axis Depth (in)	Pier Moment at Joint, M_{ut} (k-in)	Nominal Moment Transfer Capacity, $\Phi M_{sc,f}$ (k-in)	Mat Moment Transfer Usage, $0.6 M_{ut} / \Phi M_{sc,f}$
17.00	1.79	0.00	34,971.8	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, $M_u / \Phi M_n$
1,012.20	3,138.63	Parallel to Pad Edge	32.2%

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, $M_u / \Phi M_n$
884.30	4,890.25	Parallel to Pad Edge	18.1%

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
88.00	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, $M_u / \Phi_b M_n$
2,707.56	6,730.80	0.005	40.2%

PIER REINFORCING COMPRESSION ANALYSIS

Design Compression, P_u (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$
62.39	12,760.38	0.5%

PIER REINFORCING SHEAR ANALYSIS

Design Shear, V_u (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$
28.03	862.44	3.3%

EXHIBIT 4



Colliers Engineering & Design CT, PC
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
Peter.albano@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10208058
Colliers Engineering & Design Project CT, PC #: 23777213

August 2, 2023

Site Information

Site ID: 5000384670-VZW / CRANBURY CT
Site Name: CRANBURY CT
Carrier Name: Verizon Wireless
Address: 2 SUNNY LANE
Westport, Connecticut 06880
Fairfield County
Latitude: 41.162917°
Longitude: -73.373083°

Structure Information

Tower Type: 129-Ft Monopole
Mount Type: 13.75-Ft Platform

FUZE ID # 17123719

Analysis Results

Platform: 72.3% 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: Lauren Luzier



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 Site ID: 323639, dated May 26, 2021</i>
<i>Mount Mapping Report</i>	<i>Structural Components Site ID: 16244165, dated October 7, 2021</i>
<i>Post Modification Inspection Report</i>	<i>Colliers Engineering & Design Project #: 21777727A, dated January 26, 2023</i>
<i>Filter Add Scope</i>	<i>Provided by Verizon Wireless</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} : Ice Wind Speed (3-sec. Gust): Design Ice Thickness: Risk Category: Exposure Category: Topographic Category: Topographic Feature Considered: Topographic Method: Ground Elevation Factor, K_e :	120 mph 50 mph 1.00 in II C 1 N/A N/A 0.998
Seismic Parameters:	S_s : S_1 :	0.232 g 0.056 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): Maintenance Live Load, L_v : Maintenance Live Load, L_m :	30 mph 250 lbs. 500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
126.50	128.00	3	Samsung	MT6407-77A	Retained
		6	Quintel	QS6656-5D	
		3	Samsung	XXDWMM-12.5-65-8T-CBRS	
		3	Samsung	B2/B66A RRH-BR049 (RFV01U-D1A)	
		3	Samsung	B5/B13 RRH-BR04C (RFV01U-D2A)	
		2	Raycap	RxxDC-3315-PF-48	
		4	KAelus	KA-6030	Added

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

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

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	19.3 %	Pass
Grating Support	2.6 %	Pass
Standoff Arm	23.9 %	Pass
Support Rail	19.3 %	Pass
Support Rail Corner	11.9 %	Pass
Kicker Kit	11.4 %	Pass
Pipe Mount (P2 STD)	31.8 %	Pass
Pipe Mount (P2.5 STD)	24.6 %	Pass
OVP Pipe	7.8 %	Pass
Mount Connection	72.3 %	Pass

Structure Rating – (Controlling Utilization of all Components)	72.3%
---	--------------

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	25.8	25.8	41.5	41.5
0.5	33.8	33.8	55.9	55.9
1	41.6	41.6	70.0	69.9

Notes:

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

Requirements:

The existing mount 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. Mount Mapping Report (for reference only)
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000384670

SMART Project #: 10208058

Fuze Project ID: 17123719

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

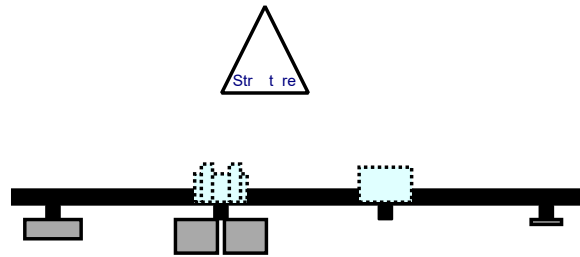
Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

Safety Climb in Good Condition Safety Climb Damaged

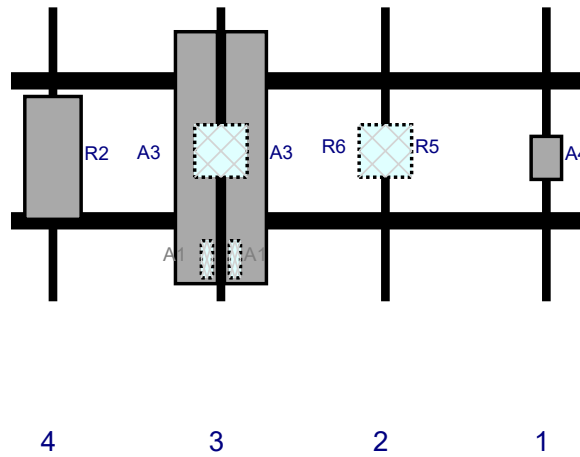
Certifying Individual:

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

Plan View

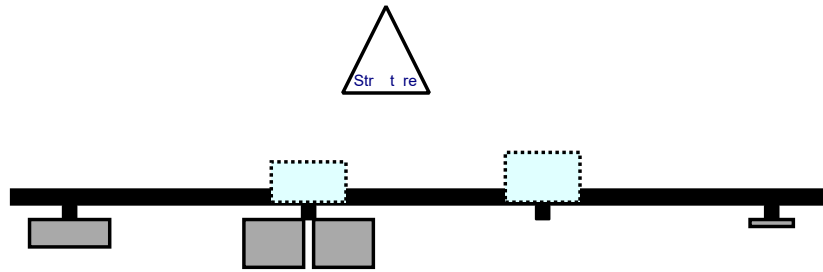


Front View - Looking at Structure

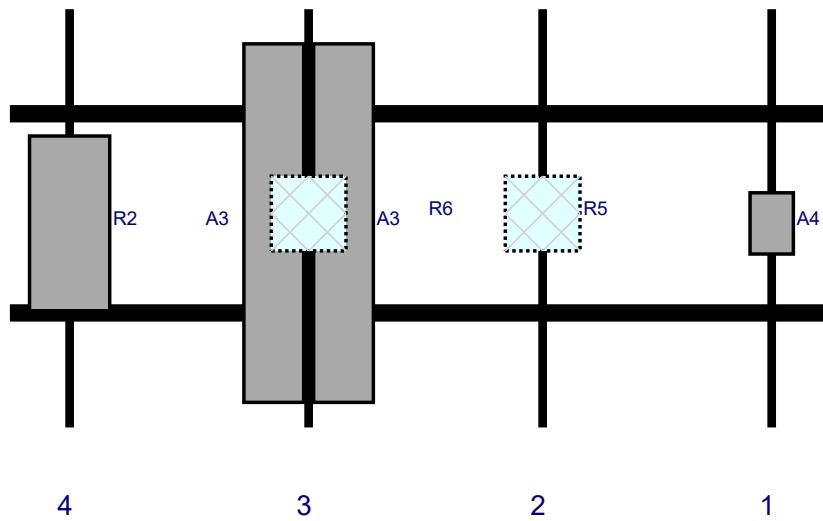


Re #	Model	Height (i)	Width (i)	H Dist Frm L.	Pipe #	Pipe Pos V	A t Pos	C. A t Frm T.	A t H O	St t s	V lid tio
A4	XXDWMM-12.5-65-8T-CBRS	12.3	8.7	153	1		Fro t	43.02	0	Ret i ed	01/17/2023
R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	107	2		Behi d	41.04	0	Ret i ed	01/17/2023
A3	QS6656-5D	72	12	60	3		Fro t	42.96	7	Ret i ed	01/17/2023
A3	QS6656-5D	72	12	60	3		Fro t	42.96	-7	Ret i ed	01/17/2023
A1	KA-6030	10.6	3.2	60	3		Behi d	72	4	Added	
A1	KA-6030	10.6	3.2	60	3		Behi d	72	-4	Added	
R6	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	60	3		Behi d	41.04	0	Ret i ed	01/17/2023
R2	MT6407-77A	35.1	16.1	12	4		Fro t	43.02	0	Ret i ed	01/17/2023
OVPB R	DC-3315-PF-48	29.5	16.5			Mem er				Ret i ed	01/17/2023
OVPC R	DC-3315-PF-48	29.5	16.5			Mem er				Ret i ed	01/17/2023

Plan View

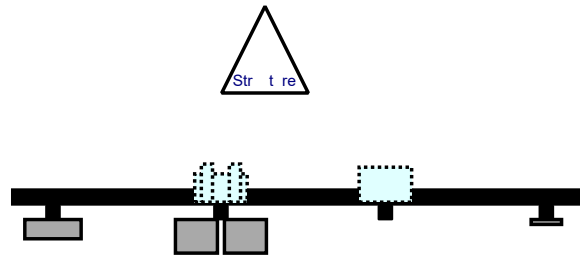


Front View - Looking at Structure

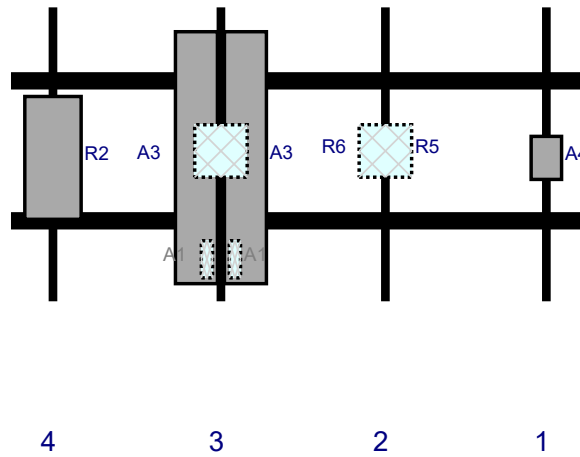


Re #	Model	Height (i)	Width (i)	H Dist Frm L.	Pipe #	Pipe Pos V	A t Pos	C. A t Frm T.	A t H O	St t s	V lid tio
A4	XXDWMM-12.5-65-8T-CBRS	12.3	8.7	153	1		Fro t	43.02	0	Ret i ed	01/17/2023
R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	107	2		Behi d	41.04	0	Ret i ed	01/17/2023
A3	QS6656-5D	72	12	60	3		Fro t	42.96	7	Ret i ed	01/17/2023
A3	QS6656-5D	72	12	60	3		Fro t	42.96	-7	Ret i ed	01/17/2023
R6	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	60	3		Behi d	41.04	0	Ret i ed	01/17/2023
R2	MT6407-77A	35.1	16.1	12	4		Fro t	43.02	0	Ret i ed	01/17/2023

Plan View



Front View - Looking at Structure

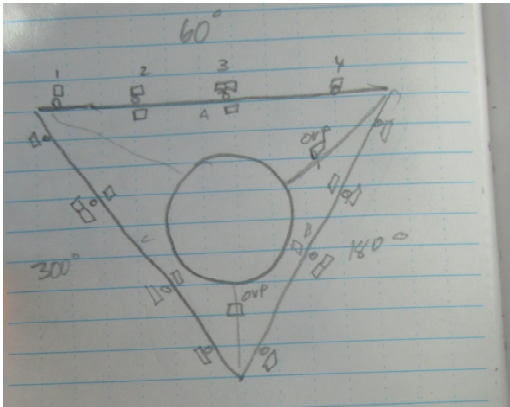


Re #	Model	Height (i)	Width (i)	H Dist Frm L.	Pipe #	Pipe Pos V	A t Pos	C. A t Frm T.	A t H O	St t s	V lid tio
A4	XXDWMM-12.5-65-8T-CBRS	12.3	8.7	153	1		Fro t	43.02	0	Ret i ed	01/17/2023
R5	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	107	2		Behi d	41.04	0	Ret i ed	01/17/2023
A3	QS6656-5D	72	12	60	3		Fro t	42.96	7	Ret i ed	01/17/2023
A3	QS6656-5D	72	12	60	3		Fro t	42.96	-7	Ret i ed	01/17/2023
A1	KA-6030	10.6	3.2	60	3		Behi d	72	4	Added	
A1	KA-6030	10.6	3.2	60	3		Behi d	72	-4	Added	
R6	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	60	3		Behi d	41.04	0	Ret i ed	01/17/2023
R2	MT6407-77A	35.1	16.1	12	4		Fro t	43.02	0	Ret i ed	01/17/2023

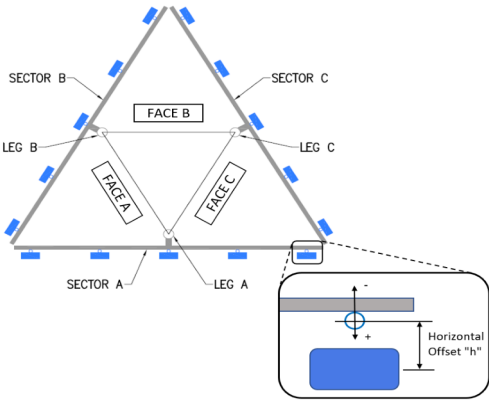


	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
	Tower Owner:	ATC Sequoia	Mapping Date:	10/7/2021
	Site Name:	CRANBURY CT	Tower Type:	Monopole
	Site Number or ID:	16244165	Tower Height (Ft.):	129
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	128.5	

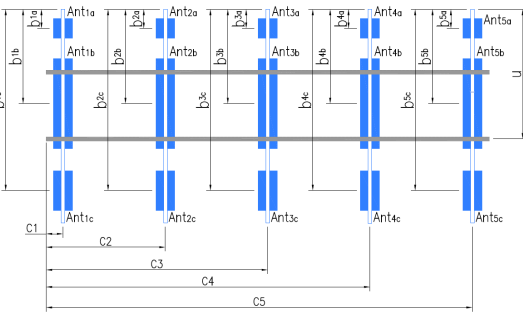
This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited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



Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.375 x .154 x 84	61.00	9.50	C1	2.375 x .154 x 84	61.00	9.50
A2	2.375 x .154 x 84	60.50	55.50	C2	2.375 x .154 x 84	60.50	55.50
A3	2.375 x .154 x 80.5	61.00	102.50	C3	2.375 x .154 x 80.5	61.00	102.50
A4	2.375 x .154 x 84	60.50	150.50	C4	2.375 x .154 x 102	60.50	150.50
A5				C5			
A6				C6			
B1	2.375 x .154 x 84	61.00	9.50	D1			
B2	2.375 x .154 x 84	60.50	55.50	D2			
B3	2.375 x .154 x 80.5	61.00	102.50	D3			
B4	2.375 x .154 x 84	60.50	150.50	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details.:							0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):							28
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):					
				28			
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.							
0.375							



Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)		Antenna Azimuth (Degrees)	Photo Numbers
Sector A										
Ant _{1a}										
Ant _{1b}	RT4401-48A	8.00	5.50	14.00	jumpers	130.417	38.00	10.00	60.00	159
Ant _{1c}										
Ant _{2a}										
Ant _{2b}	UNKNOWN MODEL	6.00	13.00	71.00	1 5/8	130.167	40.50	13.50	60.00	159
Ant _{2c}	RFV01U-D1A	16.00	12.00	15.00	jumpers	130.708	34.00	-8.50		159
Ant _{3a}										
Ant _{3b}	(2) RFA117QUI129458	12.00	9.00	71.00	jumpers	130.208	40.50	16.00	60.00	160
Ant _{3c}	RFV01U-D2A	16.00	10.00	15.50	jumpers	130.75	34.00	-8.50		160
Ant _{4a}										
Ant _{4b}	UNKNOWN MODEL	6.00	13.00	71.00	1 5/8	130.167	40.50	13.50	60.00	160
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
1		
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System

If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.				Photo #
Description of Obstruction:				
Type of Light:		Photo #	Additional Comments:	
Lighting Technology:		Photo #		
Elevation (AGL) at base of light (Ft.):		Photo #		
Is a service loop available?		Photo #		
Is beacon installed on an extension?		Photo #		

Mapping Notes

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

Standard Conditions

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



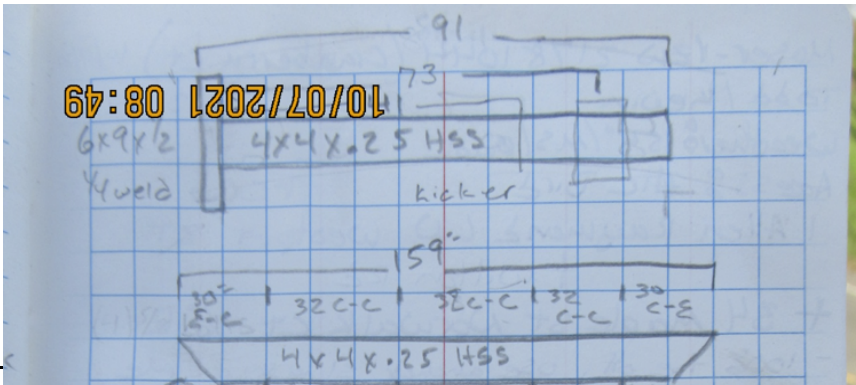
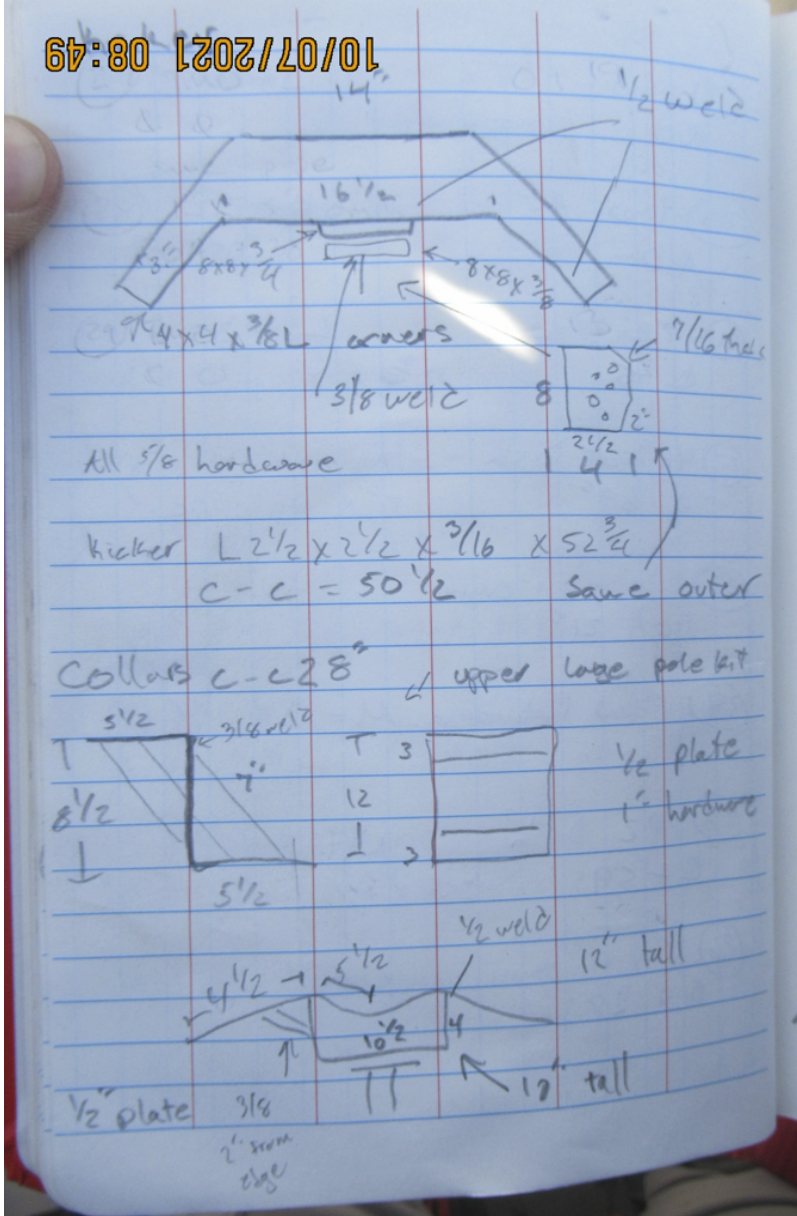
Antenna Mount Mapping Form (PATENT PENDING)

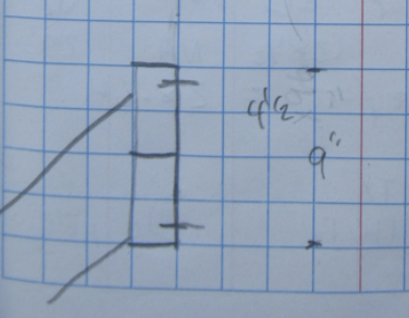
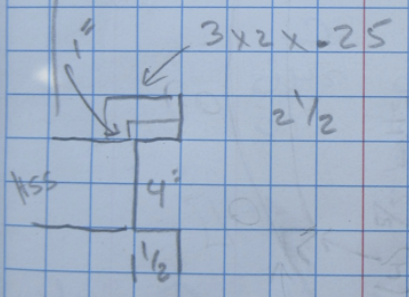
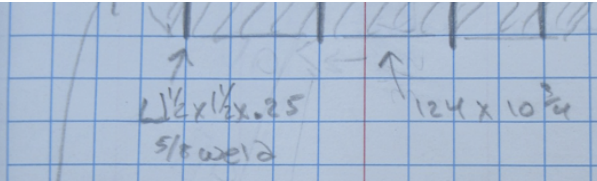
FCC #

Tower Owner:	ATC Sequoia	Mapping Date:	10/7/2021
Site Name:	CRANBURY CT	Tower Type:	Monopole
Site Number or ID:	16244165	Tower Height (Ft.):	129
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	128.5

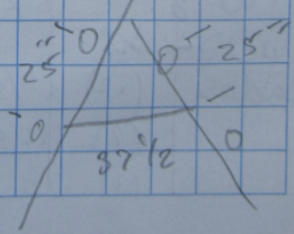
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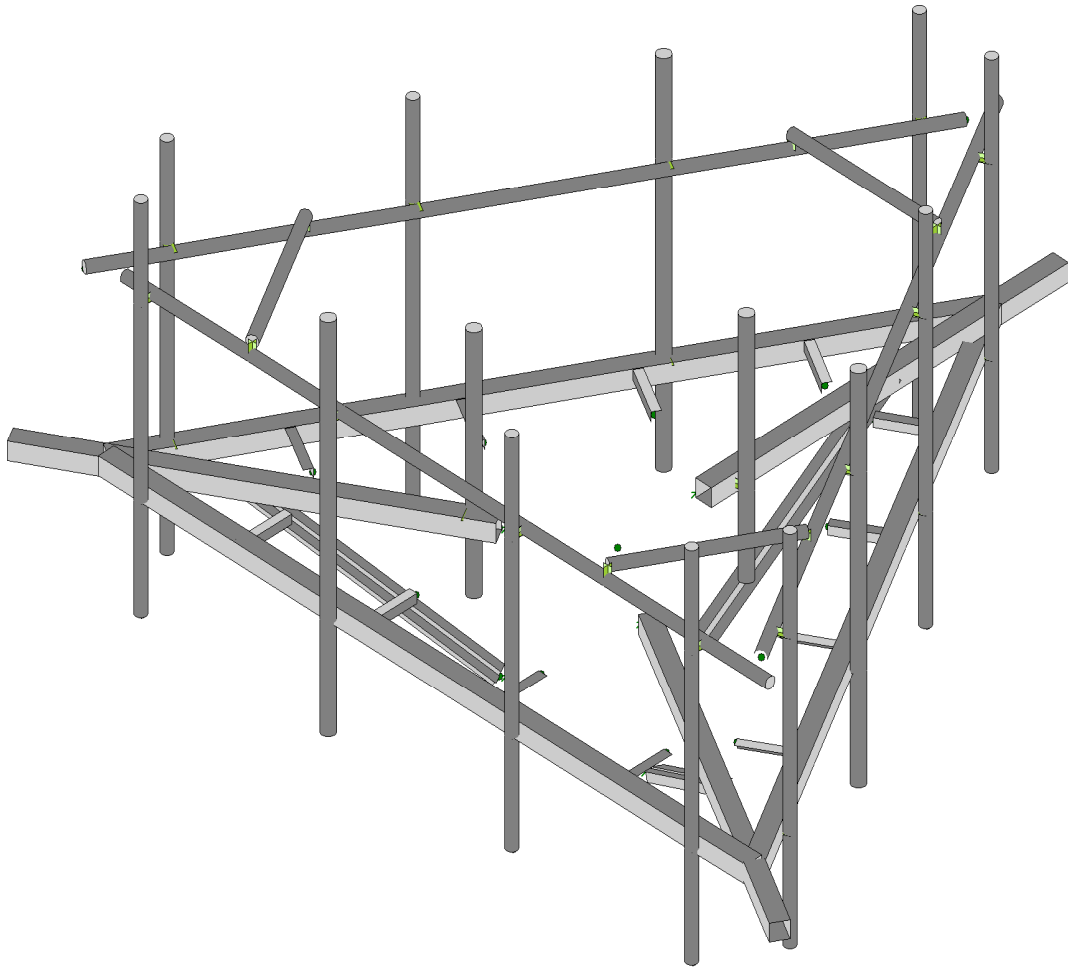
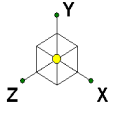
Please Insert Sketches of the Antenna Mount





Hand rail
41" C-C \varnothing
2 3/8 x 0.154





Envelope Only Solution

Colliers Engineering & Des...

eniето

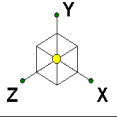
Project No. 10208058

5000384670-VZW_MT_LO_H

SK - 1

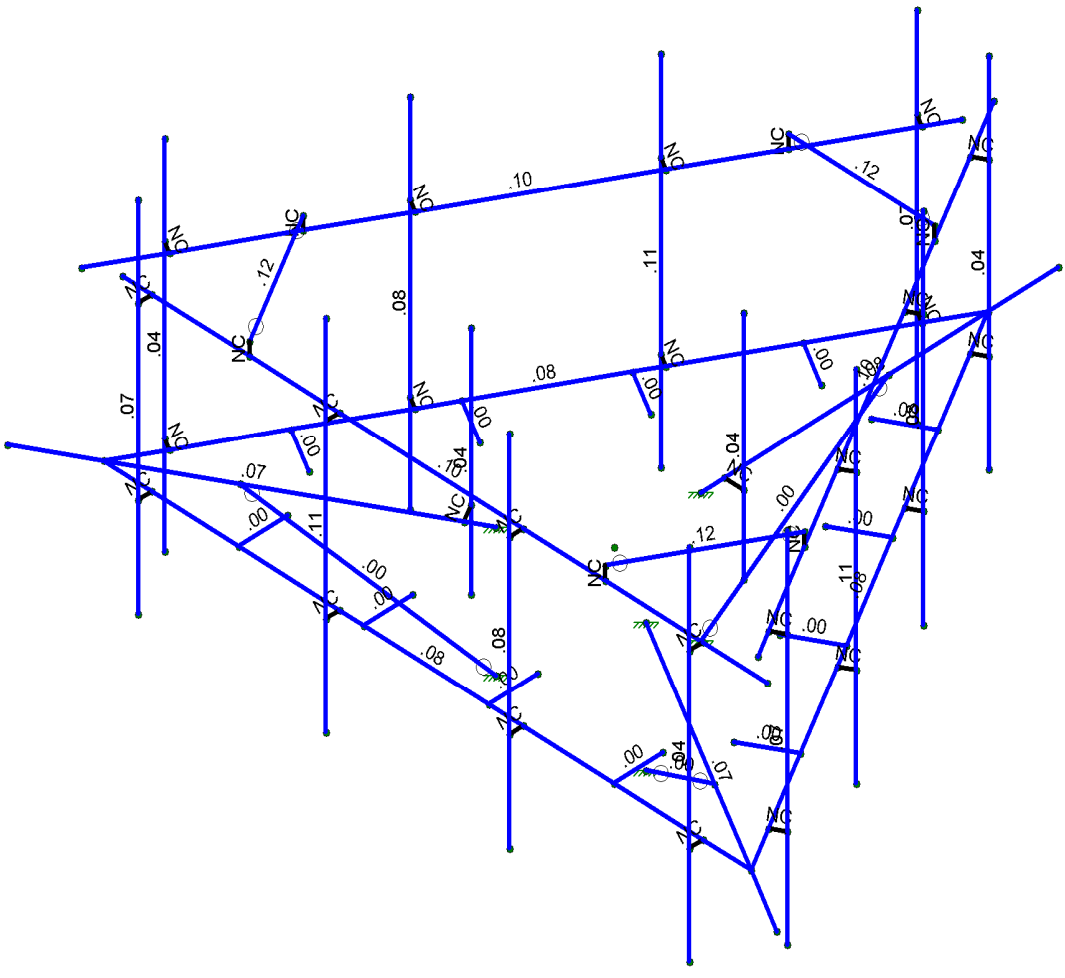
Aug 2, 2023 at 1:23 PM

5000384670-VZW_MT_LO_H.r3d



Shear Check (Env)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0-.50



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & Des...		SK - 3
eniето	5000384670-VZW_MT_LO_H	Aug 2, 2023 at 1:23 PM
Project No. 10208058		5000384670-VZW_MT_LO_H.r3d



Company : Colliers Engineering & Design
 Designer : enieto
 Job Number : Project No. 10208058
 Model Name : 5000384670-VZW_MT_LO_H

Aug 2, 2023
 1:23 PM
 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut...	Area(Me...	Surface(...
1	Antenna D	None					144			
2	Antenna Di	None					144			
3	Antenna Wo (0 Deg)	None					144			
4	Antenna Wo (30 Deg)	None					144			
5	Antenna Wo (60 Deg)	None					144			
6	Antenna Wo (90 Deg)	None					144			
7	Antenna Wo (120 Deg)	None					144			
8	Antenna Wo (150 Deg)	None					144			
9	Antenna Wo (180 Deg)	None					144			
10	Antenna Wo (210 Deg)	None					144			
11	Antenna Wo (240 Deg)	None					144			
12	Antenna Wo (270 Deg)	None					144			
13	Antenna Wo (300 Deg)	None					144			
14	Antenna Wo (330 Deg)	None					144			
15	Antenna Wi (0 Deg)	None					144			
16	Antenna Wi (30 Deg)	None					144			
17	Antenna Wi (60 Deg)	None					144			
18	Antenna Wi (90 Deg)	None					144			
19	Antenna Wi (120 Deg)	None					144			
20	Antenna Wi (150 Deg)	None					144			
21	Antenna Wi (180 Deg)	None					144			
22	Antenna Wi (210 Deg)	None					144			
23	Antenna Wi (240 Deg)	None					144			
24	Antenna Wi (270 Deg)	None					144			
25	Antenna Wi (300 Deg)	None					144			
26	Antenna Wi (330 Deg)	None					144			
27	Antenna Wm (0 Deg)	None					144			
28	Antenna Wm (30 Deg)	None					144			
29	Antenna Wm (60 Deg)	None					144			
30	Antenna Wm (90 Deg)	None					144			
31	Antenna Wm (120 Deg)	None					144			
32	Antenna Wm (150 Deg)	None					144			
33	Antenna Wm (180 Deg)	None					144			
34	Antenna Wm (210 Deg)	None					144			
35	Antenna Wm (240 Deg)	None					144			
36	Antenna Wm (270 Deg)	None					144			
37	Antenna Wm (300 Deg)	None					144			
38	Antenna Wm (330 Deg)	None					144			
39	Structure D	None		-1					3	
40	Structure Di	None						41	3	
41	Structure Wo (0 Deg)	None						82		
42	Structure Wo (30 Deg)	None						82		
43	Structure Wo (60 Deg)	None						82		
44	Structure Wo (90 Deg)	None						82		
45	Structure Wo (120 Deg)	None						82		
46	Structure Wo (150 Deg)	None						82		
47	Structure Wo (180 Deg)	None						82		
48	Structure Wo (210 Deg)	None						82		
49	Structure Wo (240 Deg)	None						82		
50	Structure Wo (270 Deg)	None						82		
51	Structure Wo (300 Deg)	None						82		
52	Structure Wo (330 Deg)	None						82		
53	Structure Wi (0 Deg)	None						82		
54	Structure Wi (30 Deg)	None						82		
55	Structure Wi (60 Deg)	None						82		

Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distrib...	Area(Me...	Surface...
56	Structure Wi (90 Deg)	None					82		
57	Structure Wi (120 Deg)	None					82		
58	Structure Wi (150 Deg)	None					82		
59	Structure Wi (180 Deg)	None					82		
60	Structure Wi (210 Deg)	None					82		
61	Structure Wi (240 Deg)	None					82		
62	Structure Wi (270 Deg)	None					82		
63	Structure Wi (300 Deg)	None					82		
64	Structure Wi (330 Deg)	None					82		
65	Structure Wm (0 Deg)	None					82		
66	Structure Wm (30 Deg)	None					82		
67	Structure Wm (60 Deg)	None					82		
68	Structure Wm (90 Deg)	None					82		
69	Structure Wm (120 Deg)	None					82		
70	Structure Wm (150 Deg)	None					82		
71	Structure Wm (180 Deg)	None					82		
72	Structure Wm (210 Deg)	None					82		
73	Structure Wm (240 Deg)	None					82		
74	Structure Wm (270 Deg)	None					82		
75	Structure Wm (300 Deg)	None					82		
76	Structure Wm (330 Deg)	None					82		
77	Lm1	None				1			
78	Lm2	None				1			
79	Lv1	None				1			
80	Lv2	None				1			
81	Antenna Ev	None				144			
82	Antenna Eh (0 Deg)	None				96			
83	Antenna Eh (90 Deg)	None				96			
84	Structure Ev	ELY		-.049				3	
85	Structure Eh (0 Deg)	ELZ			-.124			3	
86	Structure Eh (90 Deg)	ELX	.124					3	
87	BLC 39 Transient Area Loads	None					33		
88	BLC 40 Transient Area Loads	None					33		
89	BLC 84 Transient Area Loads	None					33		
90	BLC 85 Transient Area Loads	None					33		
91	BLC 86 Transient Area Loads	None					33		

Load Combinations

Description	S...	PDelta	S...B...Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...
1	1.2D+1.0Wo (0 D...Y...	Y		1	1.2	39	1.2	3	1	41	1								
2	1.2D+1.0Wo (30 ...Y...	Y		1	1.2	39	1.2	4	1	42	1								
3	1.2D+1.0Wo (60 ...Y...	Y		1	1.2	39	1.2	5	1	43	1								
4	1.2D+1.0Wo (90 ...Y...	Y		1	1.2	39	1.2	6	1	44	1								
5	1.2D+1.0Wo (120...Y...	Y		1	1.2	39	1.2	7	1	45	1								
6	1.2D+1.0Wo (150...Y...	Y		1	1.2	39	1.2	8	1	46	1								
7	1.2D+1.0Wo (180...Y...	Y		1	1.2	39	1.2	9	1	47	1								
8	1.2D+1.0Wo (210...Y...	Y		1	1.2	39	1.2	10	1	48	1								
9	1.2D+1.0Wo (240...Y...	Y		1	1.2	39	1.2	11	1	49	1								
10	1.2D+1.0Wo (270...Y...	Y		1	1.2	39	1.2	12	1	50	1								
11	1.2D+1.0Wo (300...Y...	Y		1	1.2	39	1.2	13	1	51	1								
12	1.2D+1.0Wo (330...Y...	Y		1	1.2	39	1.2	14	1	52	1								
13	1.2D + 1.0Di + 1.0...Y...	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1				
14	1.2D + 1.0Di + 1.0...Y...	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1				
15	1.2D + 1.0Di + 1.0...Y...	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1				
16	1.2D + 1.0Di + 1.0...Y...	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1				
17	1.2D + 1.0Di + 1.0...Y...	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1				
18	1.2D + 1.0Di + 1.0...Y...	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1				

Load Combinations (Continued)

	Description	S...	PDelta	S...	B...	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC	Fa...	BLC			
19	1.2D + 1.0Di + 1.0...	Y...	Y			1	1.2	39	1.2	2	1	40	1	21	1	59	1																									
20	1.2D + 1.0Di + 1.0...	Y...	Y			1	1.2	39	1.2	2	1	40	1	22	1	60	1																									
21	1.2D + 1.0Di + 1.0...	Y...	Y			1	1.2	39	1.2	2	1	40	1	23	1	61	1																									
22	1.2D + 1.0Di + 1.0...	Y...	Y			1	1.2	39	1.2	2	1	40	1	24	1	62	1																									
23	1.2D + 1.0Di + 1.0...	Y...	Y			1	1.2	39	1.2	2	1	40	1	25	1	63	1																									
24	1.2D + 1.0Di + 1.0...	Y...	Y			1	1.2	39	1.2	2	1	40	1	26	1	64	1																									
25	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	27	1	65	1																											
26	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	28	1	66	1																											
27	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	29	1	67	1																											
28	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	30	1	68	1																											
29	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	31	1	69	1																											
30	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	32	1	70	1																											
31	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	33	1	71	1																											
32	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	34	1	72	1																											
33	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	35	1	73	1																											
34	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	36	1	74	1																											
35	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	37	1	75	1																											
36	1.2D + 1.5Lm1 + ...	Y...	Y			1	1.2	39	1.2	77	1.5	38	1	76	1																											
37	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	27	1	65	1																											
38	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	28	1	66	1																											
39	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	29	1	67	1																											
40	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	30	1	68	1																											
41	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	31	1	69	1																											
42	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	32	1	70	1																											
43	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	33	1	71	1																											
44	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	34	1	72	1																											
45	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	35	1	73	1																											
46	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	36	1	74	1																											
47	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	37	1	75	1																											
48	1.2D + 1.5Lm2 + ...	Y...	Y			1	1.2	39	1.2	78	1.5	38	1	76	1																											
49	1.2D + 1.5Lv1	Y...	Y			1	1.2	39	1.2	79	1.5																															
50	1.2D + 1.5Lv2	Y...	Y			1	1.2	39	1.2	80	1.5																															
51	1.4D	Y...	Y			1	1.4	39	1.4																																	
52	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	1	83	E...	1	E...																							
53	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	E...	.866	E...	.5																					
54	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	E...	.5	E...	.866																					
55	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82		83	1	E...		E...	1																					
56	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	E...	-.5	E...	.866																					
57	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	-.8	83	.5	E...	-.8	E...	.5																					
58	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	-1	83		E...	-1	E...																						
59	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	-.8	83	-.5	E...	-.8	E...	-.5																					
60	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.8	E...	-.5	E...	-.8																					
61	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82		83	-1	E...		E...	-1																					
62	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.8	E...	.5	E...	-.8																					
63	1.2D + 1.0Ev + 1.0...	Y...	Y			1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	E...	.866	E...	-.5																					
64	0.9D - 1.0Ev + 1.0...	Y...	Y			1	.9	39	.9	81	-1	ELY	-1	82	1	83		E...	1	E...																						
65	0.9D - 1.0Ev + 1.0...	Y...	Y			1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	E...	.866	E...	.5																					
66	0.9D - 1.0Ev + 1.0...	Y...	Y			1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	E...	.5	E...	.866																					
67	0.9D - 1.0Ev + 1.0...	Y...	Y			1	.9	39	.9	81	-1	ELY	-1	82		83	1	E...		E...	1																					
68	0.9D - 1.0Ev + 1.0...	Y...	Y			1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	E...	-.5	E...	.866																					
69	0.9D - 1.0Ev + 1.0...	Y...	Y			1	.9	39	.9	81	-1	ELY	-1	82	-.8	83	.5	E...	-.8	E...	.5																					
70	0.9D - 1.0Ev + 1.0...	Y...	Y			1	.9	39	.9	81	-1	ELY	-1	82	-1	83		E...	-1																							



Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	6.904033	0	3.986045	0	
2	N4	-6.904033	0	3.986045	0	
3	N5	3.977671	0	2.944379	0	
4	N6	3.977671	0	3.986045	0	
5	N7	1.311004	0	2.944379	0	
6	N8	1.311004	0	3.986045	0	
7	N9	-1.355662	0	2.944379	0	
8	N10	-1.355662	0	3.986045	0	
9	N11	-4.022329	0	2.944379	0	
10	N12	-4.022329	0	3.986045	0	
11	N13	5.874979	0	4.277712	0	
12	N14	5.874979	0	3.986045	0	
13	CENTER	0	0	0	0	
14	N25	-0.	0	-7.972091	0	
15	N26	-4.538742	0	1.972575	0	
16	N27	-5.440852	0	1.451741	0	
17	N28	-3.205409	0	-0.336826	0	
18	N29	-4.107519	0	-0.85766	0	
19	N30	-1.872076	0	-2.646227	0	
20	N31	-2.774185	0	-3.167061	0	
21	N32	-0.538742	0	-4.955629	0	
22	N33	-1.440852	0	-5.476462	0	
23	N43	-0.	0	-1.847091	0	
24	N44	-0.	0	-9.472091	0	
25	N47	0.561071	0	-4.916953	0	
26	N48	1.463181	0	-5.437787	0	
27	N49	1.894405	0	-2.607552	0	
28	N50	2.796514	0	-3.128386	0	
29	N51	3.227738	0	-0.298151	0	
30	N52	4.129848	0	-0.818985	0	
31	N53	4.561071	0	2.01125	0	
32	N54	5.463181	0	1.490416	0	
33	N59A	7.25	3.333333	3.986045	0	
34	N60A	-6.5	3.333333	3.986045	0	
35	N63	5.874979	3.333333	4.277712	0	
36	N64	5.874979	3.333333	3.986045	0	
37	N71	5.874979	5.083333	4.277712	0	
38	N74	5.874979	-1.916667	4.277712	0	
39	N49A	2.041679	0	4.277712	0	
40	N50A	2.041679	0	3.986045	0	
41	N51A	2.041679	3.333333	4.277712	0	
42	N52A	2.041679	3.333333	3.986045	0	
43	N53A	2.041679	5.083333	4.277712	0	
44	N54A	2.041679	-1.916667	4.277712	0	
45	N55	-1.874987	0	4.277712	0	
46	N56	-1.874987	0	3.986045	0	
47	N57	-1.874987	3.333333	4.277712	0	
48	N58	-1.874987	3.333333	3.986045	0	
49	N59	-1.874987	5.083333	4.277712	0	
50	N60	-1.874987	-1.916667	4.277712	0	
51	N61	-5.874987	0	4.277712	0	
52	N62	-5.874987	0	3.986045	0	
53	N63A	-5.874987	3.333333	4.277712	0	
54	N64A	-5.874987	3.333333	3.986045	0	
55	N65	-5.874987	5.083333	4.277712	0	
56	N66	-5.874987	-1.916667	4.277712	0	
57	N121A	3.79165	3.333333	3.986045	0	
58	N127A	-3.791654	3.333333	3.986045	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
59	N130	1.599628	0	0.923545	0	
60	N131A	8.203071	0	4.736045	0	
61	N133A	-1.599628	0	0.923545	0	
62	N134A	-8.203071	0	4.736045	0	
63	N135	-0.	0	-2.347091	0	
64	N136	0.416667	0	-2.347091	0	
65	N137	0.416667	-1.5	-2.347091	0	
66	N138	0.416667	3	-2.347091	0	
67	N90	-7.077017	3.333333	4.285661	0	
68	N91	-0.202017	3.333333	-7.622188	0	
69	N93	-0.172983	3.333333	-8.271707	0	
70	N94	6.702017	3.333333	3.636142	0	
71	N89	-6.642097	0	2.949025	0	
72	N90A	-6.389506	0	3.094859	0	
73	N92	-6.642097	3.333333	2.949025	0	
74	N93A	-6.389506	3.333333	3.094859	0	
75	N94A	-6.642097	5.083333	2.949025	0	
76	N95	-6.642097	-1.916667	2.949025	0	
77	N96	-4.725447	0	-0.37071	0	
78	N97	-4.472856	0	-0.224877	0	
79	N98	-4.725447	3.333333	-0.37071	0	
80	N99	-4.472856	3.333333	-0.224877	0	
81	N100	-4.725447	5.083333	-0.37071	0	
82	N101	-4.725447	-1.916667	-0.37071	0	
83	N102	-2.767114	0	-3.762643	0	
84	N103	-2.514523	0	-3.616809	0	
85	N104	-2.767114	3.333333	-3.762643	0	
86	N105	-2.514523	3.333333	-3.616809	0	
87	N106	-2.767114	5.083333	-3.762643	0	
88	N107	-2.767114	-1.916667	-3.762643	0	
89	N108	-0.767114	0	-7.226744	0	
90	N109	-0.514523	0	-7.080911	0	
91	N110	-0.767114	3.333333	-7.226744	0	
92	N111	-0.514523	3.333333	-7.080911	0	
93	N112	-0.767114	5.083333	-7.226744	0	
94	N113	-0.767114	-1.916667	-7.226744	0	
95	N114	0.767118	0	-7.226737	0	
96	N115	0.514527	0	-7.080904	0	
97	N117	0.767118	3.333333	-7.226737	0	
98	N118	0.514527	3.333333	-7.080904	0	
99	N119	0.767118	5.083333	-7.226737	0	
100	N120	0.767118	-1.916667	-7.226737	0	
101	N121	2.683768	0	-3.907002	0	
102	N122	2.431177	0	-3.761169	0	
103	N123	2.683768	3.333333	-3.907002	0	
104	N124	2.431177	3.333333	-3.761169	0	
105	N125A	2.683768	5.083333	-3.907002	0	
106	N126B	2.683768	-1.916667	-3.907002	0	
107	N127B	4.642101	0	-0.515069	0	
108	N128A	4.38951	0	-0.369236	0	
109	N129A	4.642101	3.333333	-0.515069	0	
110	N130B	4.38951	3.333333	-0.369236	0	
111	N131C	4.642101	5.083333	-0.515069	0	
112	N132B	4.642101	-1.916667	-0.515069	0	
113	N133C	6.642101	0	2.949032	0	
114	N134B	6.38951	0	3.094866	0	
115	N135A	6.642101	3.333333	2.949032	0	
116	N136A	6.38951	3.333333	3.094866	0	
117	N137A	6.642101	5.083333	2.949032	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
118	N138A	6.642101	-1.916667	2.949032	0	
119	N137B	-0.	0	-5.847091	0	
120	N138B	-0.	-2.5	-1.847091	0	
121	N139	1.599628	-2.5	0.923545	0	
122	N140	-1.599628	-2.5	0.923545	0	
123	N142	5.063729	0	2.923545	0	
124	N144	-5.063729	0	2.923545	0	
125	N136B	-2.03264	0	1.173545	0	
126	N137C	-2.240974	0	0.812701	0	
127	N138C	-2.240974	-1.5	0.812701	0	
128	N139A	-2.240974	3	0.812701	0	
129	N130A	-5.347842	3.333333	1.290643	0	
130	N131	-1.556192	3.333333	-5.276688	0	
131	N133	1.556192	3.333333	-5.276688	0	
132	N134	5.347844	3.333333	1.290646	0	
133	N139B	3.79165	3.583333	3.986045	0	
134	N140A	-3.791654	3.583333	3.986045	0	
135	N141A	-5.347842	3.583333	1.290643	0	
136	N142B	-1.556192	3.583333	-5.276688	0	
137	N143	1.556192	3.583333	-5.276688	0	
138	N144A	5.347844	3.583333	1.290646	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Standoff Arm	HSS4X4X4	None	None	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
2	Face Horizontal	HSS4X4X4	None	None	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Grating Support	L2x2x4	None	None	A36 Gr.36	Typical	.944	.346	.346	.021
4	Support Rail	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
5	Support Rail Corner	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
6	Pipe Mount (P2 STD)	PIPE 2.0	None	None	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Kicker Kit	LL2.5x2.5x3x6	None	None	A36 Gr.36	Typical	1.8	3.09	1.07	.023
8	OVP Pipe	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Pipe Mount (P2.5 STD)	PIPE 2.5	None	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
1	M2	N3	N4			Face Horizont...	None	None	A500 Gr.B Rect	Typical
2	M3	N5	N6		180	Grating Supp...	None	None	A36 Gr.36	Typical
3	M4	N7	N8		180	Grating Supp...	None	None	A36 Gr.36	Typical
4	M5	N9	N10		90	Grating Supp...	None	None	A36 Gr.36	Typical
5	M6	N11	N12		90	Grating Supp...	None	None	A36 Gr.36	Typical
6	M7	N13	N14			RIGID	None	None	RIGID	Typical
7	M12	N4	N25			Face Horizont...	None	None	A500 Gr.B Rect	Typical
8	M13	N26	N27		180	Grating Supp...	None	None	A36 Gr.36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
9	M14	N28	N29		180	Grating Supp...	None	None	A36 Gr.36	Typical
10	M15	N30	N31		90	Grating Supp...	None	None	A36 Gr.36	Typical
11	M16	N32	N33		90	Grating Supp...	None	None	A36 Gr.36	Typical
12	M21	N43	N44			Standoff Arm	None	None	A500 Gr.B Rect	Typical
13	M22	N25	N3			Face Horizont...	None	None	A500 Gr.B Rect	Typical
14	M23	N47	N48		180	Grating Supp...	None	None	A36 Gr.36	Typical
15	M24	N49	N50		180	Grating Supp...	None	None	A36 Gr.36	Typical
16	M25	N51	N52		90	Grating Supp...	None	None	A36 Gr.36	Typical
17	M26	N53	N54		90	Grating Supp...	None	None	A36 Gr.36	Typical
18	M27	N49A	N50A			RIGID	None	None	RIGID	Typical
19	M28	N51A	N52A			RIGID	None	None	RIGID	Typical
20	M30	N55	N56			RIGID	None	None	RIGID	Typical
21	M31	N59A	N60A			Support Rail	None	None	A53 Gr.B	Typical
22	M31A	N57	N58			RIGID	None	None	RIGID	Typical
23	M33	N63	N64			RIGID	None	None	RIGID	Typical
24	M33A	N61	N62			RIGID	None	None	RIGID	Typical
25	M34	N63A	N64A			RIGID	None	None	RIGID	Typical
26	M41	N90	N91			Support Rail	None	None	A53 Gr.B	Typical
27	M51	N93	N94			Support Rail	None	None	A53 Gr.B	Typical
28	M53	N89	N90A			RIGID	None	None	RIGID	Typical
29	M54	N96	N97			RIGID	None	None	RIGID	Typical
30	M55	N98	N99			RIGID	None	None	RIGID	Typical
31	M56	N102	N103			RIGID	None	None	RIGID	Typical
32	M57	N104	N105			RIGID	None	None	RIGID	Typical
33	M58	N92	N93A			RIGID	None	None	RIGID	Typical
34	M59	N108	N109			RIGID	None	None	RIGID	Typical
35	M60	N110	N111			RIGID	None	None	RIGID	Typical
36	M65	N141A	N140A			Support Rail ...	None	None	A53 Gr.B	Typical
37	M65A	N114	N115			RIGID	None	None	RIGID	Typical
38	M66	N144A	N139B			Support Rail ...	None	None	A53 Gr.B	Typical
39	M66A	N121	N122			RIGID	None	None	RIGID	Typical
40	M67	N143	N142B			Support Rail ...	None	None	A53 Gr.B	Typical
41	M67A	N123	N124			RIGID	None	None	RIGID	Typical
42	M68A	N127B	N128A			RIGID	None	None	RIGID	Typical
43	M69A	N130	N131A			Standoff Arm	None	None	A500 Gr.B Rect	Typical
44	M69C	N129A	N130B			RIGID	None	None	RIGID	Typical
45	M70A	N133A	N134A			Standoff Arm	None	None	A500 Gr.B Rect	Typical
46	M70B	N117	N118			RIGID	None	None	RIGID	Typical
47	M71	N136	N135			RIGID	None	None	RIGID	Typical
48	M71A	N133C	N134B			RIGID	None	None	RIGID	Typical
49	M72	N135A	N136A			RIGID	None	None	RIGID	Typical
50	M72A	N137C	N136B			RIGID	None	None	RIGID	Typical
51	M73	N140	N144			Kicker Kit	None	None	A36 Gr.36	Typical
52	M74	N139	N142			Kicker Kit	None	None	A36 Gr.36	Typical
53	M75	N138B	N137B			Kicker Kit	None	None	A36 Gr.36	Typical
54	MP1A	N71	N74			Pipe Mount (...)	None	None	A53 Gr.B	Typical
55	MP1B	N94A	N95			Pipe Mount (...)	None	None	A53 Gr.B	Typical
56	MP1C	N119	N120			Pipe Mount (...)	None	None	A53 Gr.B	Typical
57	MP2A	N53A	N54A			Pipe Mount (...)	None	None	A53 Gr.B	Typical
58	MP2B	N100	N101			Pipe Mount (...)	None	None	A53 Gr.B	Typical
59	MP2C	N125A	N126B			Pipe Mount (...)	None	None	A53 Gr.B	Typical
60	MP3A	N59	N60			Pipe Mount (...)	None	None	A53 Gr.B	Typical
61	MP3B	N106	N107			Pipe Mount (...)	None	None	A53 Gr.B	Typical
62	MP3C	N131C	N132B			Pipe Mount (...)	None	None	A53 Gr.B	Typical
63	MP4A	N65	N66			Pipe Mount (...)	None	None	A53 Gr.B	Typical
64	MP4B	N112	N113			Pipe Mount (...)	None	None	A53 Gr.B	Typical
65	MP4C	N137A	N138A			Pipe Mount (...)	None	None	A53 Gr.B	Typical
66	OVPB	N139A	N138C			OVP Pipe	None	None	A53 Gr.B	Typical
67	OVPC	N138	N137			OVP Pipe	None	None	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
68	M74A	N127A	N140A			RIGID	None	None	RIGID	Typical
69	M75A	N130A	N141A			RIGID	None	None	RIGID	Typical
70	M76	N131	N142B			RIGID	None	None	RIGID	Typical
71	M77	N133	N143			RIGID	None	None	RIGID	Typical
72	M78	N134	N144A			RIGID	None	None	RIGID	Typical
73	M79	N121A	N139B			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Options	Analysis ...	Inactive	Seismi...
1	M2						Yes	**	NA	**		None
2	M3						Yes	**	NA	**		None
3	M4						Yes	**	NA	**		None
4	M5						Yes	**	NA	**		None
5	M6						Yes	**	NA	**		None
6	M7						Yes	**	NA	**		None
7	M12						Yes	**	NA	**		None
8	M13						Yes	**	NA	**		None
9	M14						Yes	**	NA	**		None
10	M15						Yes	**	NA	**		None
11	M16						Yes	**	NA	**		None
12	M21						Yes	**	NA	**		None
13	M22						Yes	**	NA	**		None
14	M23						Yes	**	NA	**		None
15	M24						Yes	**	NA	**		None
16	M25						Yes	**	NA	**		None
17	M26						Yes	**	NA	**		None
18	M27						Yes	**	NA	**		None
19	M28						Yes	**	NA	**		None
20	M30						Yes	**	NA	**		None
21	M31						Yes	**	NA	**		None
22	M31A						Yes	**	NA	**		None
23	M33						Yes	**	NA	**		None
24	M33A						Yes	**	NA	**		None
25	M34						Yes	**	NA	**		None
26	M41						Yes	**	NA	**		None
27	M51						Yes	**	NA	**		None
28	M53						Yes	**	NA	**		None
29	M54						Yes	**	NA	**		None
30	M55						Yes	**	NA	**		None
31	M56						Yes	**	NA	**		None
32	M57						Yes	**	NA	**		None
33	M58						Yes	**	NA	**		None
34	M59						Yes	**	NA	**		None
35	M60						Yes	**	NA	**		None
36	M65	BenPIN	BenPIN				Yes	**	NA	**		None
37	M65A						Yes	**	NA	**		None
38	M66	BenPIN	BenPIN				Yes	**	NA	**		None
39	M66A						Yes	**	NA	**		None
40	M67	BenPIN	BenPIN				Yes	**	NA	**		None
41	M67A						Yes	**	NA	**		None
42	M68A						Yes	**	NA	**		None
43	M69A						Yes	**	NA	**		None
44	M69C						Yes	**	NA	**		None
45	M70A						Yes	**	NA	**		None
46	M70B						Yes	**	NA	**		None
47	M71						Yes	**	NA	**		None
48	M71A						Yes	**	NA	**		None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Ratio	Options	Analysis ...	Inactive	Seismi...
49	M72						Yes	**	NA	**		None
50	M72A						Yes	**	NA	**		None
51	M73	BenPIN	BenPIN				Yes	**	NA	**		None
52	M74	BenPIN	BenPIN				Yes	**	NA	**		None
53	M75	BenPIN	BenPIN				Yes	**	NA	**		None
54	MP1A						Yes	**	NA	**		None
55	MP1B						Yes	**	NA	**		None
56	MP1C						Yes	**	NA	**		None
57	MP2A						Yes	**	NA	**		None
58	MP2B						Yes	**	NA	**		None
59	MP2C						Yes	**	NA	**		None
60	MP3A						Yes	**	NA	**		None
61	MP3B						Yes	**	NA	**		None
62	MP3C						Yes	**	NA	**		None
63	MP4A						Yes	**	NA	**		None
64	MP4B						Yes	**	NA	**		None
65	MP4C						Yes	**	NA	**		None
66	OVPB						Yes	**	NA	**		None
67	OVPC						Yes	**	NA	**		None
68	M74A						Yes	**	NA	**		None
69	M75A						Yes	**	NA	**		None
70	M76						Yes	**	NA	**		None
71	M77						Yes	**	NA	**		None
72	M78						Yes	**	NA	**		None
73	M79						Yes	**	NA	**		None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-8.8	5.5
2	MP3A	My	.009	5.5
3	MP3A	Mz	.003	5.5
4	MP3A	Y	-8.8	6.5
5	MP3A	My	.009	6.5
6	MP3A	Mz	.003	6.5
7	MP3C	Y	-8.8	5.5
8	MP3C	My	-.002	5.5
9	MP3C	Mz	-.009	5.5
10	MP3C	Y	-8.8	6.5
11	MP3C	My	-.002	6.5
12	MP3C	Mz	-.009	6.5
13	MP3A	Y	-8.8	5.5
14	MP3A	My	.009	5.5
15	MP3A	Mz	-.003	5.5
16	MP3A	Y	-8.8	6.5
17	MP3A	My	.009	6.5
18	MP3A	Mz	-.003	6.5
19	MP3C	Y	-8.8	5.5
20	MP3C	My	-.007	5.5
21	MP3C	Mz	-.006	5.5
22	MP3C	Y	-8.8	6.5
23	MP3C	My	-.007	6.5
24	MP3C	Mz	-.006	6.5
25	MP4A	Y	-43.55	2.62
26	MP4A	My	-.044	2.62
27	MP4A	Mz	0	2.62
28	MP4A	Y	-43.55	4.55
29	MP4A	My	-.044	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mz	0	4.55
31	MP4B	Y	-43.55	2.62
32	MP4B	My	.022	2.62
33	MP4B	Mz	-.038	2.62
34	MP4B	Y	-43.55	4.55
35	MP4B	My	.022	4.55
36	MP4B	Mz	-.038	4.55
37	MP4C	Y	-43.55	2.62
38	MP4C	My	.022	2.62
39	MP4C	Mz	.038	2.62
40	MP4C	Y	-43.55	4.55
41	MP4C	My	.022	4.55
42	MP4C	Mz	.038	4.55
43	MP3A	Y	-32.5	1.33
44	MP3A	My	-.033	1.33
45	MP3A	Mz	.019	1.33
46	MP3A	Y	-32.5	5.83
47	MP3A	My	-.033	5.83
48	MP3A	Mz	.019	5.83
49	MP3B	Y	-32.5	1.33
50	MP3B	My	-.000168	1.33
51	MP3B	Mz	-.038	1.33
52	MP3B	Y	-32.5	5.83
53	MP3B	My	-.000168	5.83
54	MP3B	Mz	-.038	5.83
55	MP3C	Y	-32.5	1.33
56	MP3C	My	.033	1.33
57	MP3C	Mz	.019	1.33
58	MP3C	Y	-32.5	5.83
59	MP3C	My	.033	5.83
60	MP3C	Mz	.019	5.83
61	MP3A	Y	-32.5	1.33
62	MP3A	My	-.033	1.33
63	MP3A	Mz	-.019	1.33
64	MP3A	Y	-32.5	5.83
65	MP3A	My	-.033	5.83
66	MP3A	Mz	-.019	5.83
67	MP3B	Y	-32.5	1.33
68	MP3B	My	.033	1.33
69	MP3B	Mz	-.019	1.33
70	MP3B	Y	-32.5	5.83
71	MP3B	My	.033	5.83
72	MP3B	Mz	-.019	5.83
73	MP3C	Y	-32.5	1.33
74	MP3C	My	-.000168	1.33
75	MP3C	Mz	.038	1.33
76	MP3C	Y	-32.5	5.83
77	MP3C	My	-.000168	5.83
78	MP3C	Mz	.038	5.83
79	MP1A	Y	-2.2	3.07
80	MP1A	My	-.001	3.07
81	MP1A	Mz	0	3.07
82	MP1A	Y	-2.2	4.1
83	MP1A	My	-.001	4.1
84	MP1A	Mz	0	4.1
85	MP1B	Y	-2.2	3.07
86	MP1B	My	.000733	3.07
87	MP1B	Mz	-.001	3.07
88	MP1B	Y	-2.2	4.1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	My	.000733	4.1
90	MP1B	Mz	-.001	4.1
91	MP1C	Y	-2.2	3.07
92	MP1C	My	.000733	3.07
93	MP1C	Mz	.001	3.07
94	MP1C	Y	-2.2	4.1
95	MP1C	My	.000733	4.1
96	MP1C	Mz	.001	4.1
97	MP2A	Y	-42.2	3.42
98	MP2A	My	.035	3.42
99	MP2A	Mz	0	3.42
100	MP2A	Y	-42.2	3.42
101	MP2A	My	.035	3.42
102	MP2A	Mz	0	3.42
103	MP2B	Y	-42.2	3.42
104	MP2B	My	-.018	3.42
105	MP2B	Mz	.03	3.42
106	MP2B	Y	-42.2	3.42
107	MP2B	My	-.018	3.42
108	MP2B	Mz	.03	3.42
109	MP2C	Y	-42.2	3.42
110	MP2C	My	-.018	3.42
111	MP2C	Mz	-.03	3.42
112	MP2C	Y	-42.2	3.42
113	MP2C	My	-.018	3.42
114	MP2C	Mz	-.03	3.42
115	MP3A	Y	-35.15	3.42
116	MP3A	My	.029	3.42
117	MP3A	Mz	0	3.42
118	MP3A	Y	-35.15	3.42
119	MP3A	My	.029	3.42
120	MP3A	Mz	0	3.42
121	MP3B	Y	-35.15	3.42
122	MP3B	My	-.015	3.42
123	MP3B	Mz	.025	3.42
124	MP3B	Y	-35.15	3.42
125	MP3B	My	-.015	3.42
126	MP3B	Mz	.025	3.42
127	MP3C	Y	-35.15	3.42
128	MP3C	My	-.015	3.42
129	MP3C	Mz	-.025	3.42
130	MP3C	Y	-35.15	3.42
131	MP3C	My	-.015	3.42
132	MP3C	Mz	-.025	3.42
133	OVPB	Y	-16	1.5
134	OVPB	My	.007	1.5
135	OVPB	Mz	-.012	1.5
136	OVPB	Y	-16	1.5
137	OVPB	My	.007	1.5
138	OVPB	Mz	-.012	1.5
139	OVPC	Y	-16	1.5
140	OVPC	My	0	1.5
141	OVPC	Mz	.013	1.5
142	OVPC	Y	-16	1.5
143	OVPC	My	0	1.5
144	OVPC	Mz	.013	1.5

Member Point Loads (BLC 2 : Antenna Di)



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	Y	3.3	5.5
2	MP3A	My	-.003	5.5
3	MP3A	Mz	-.001	5.5
4	MP3A	Y	3.3	6.5
5	MP3A	My	-.003	6.5
6	MP3A	Mz	-.001	6.5
7	MP3C	Y	3.3	5.5
8	MP3C	My	.000697	5.5
9	MP3C	Mz	.003	5.5
10	MP3C	Y	3.3	6.5
11	MP3C	My	.000697	6.5
12	MP3C	Mz	.003	6.5
13	MP3A	Y	3.3	5.5
14	MP3A	My	-.003	5.5
15	MP3A	Mz	.001	5.5
16	MP3A	Y	3.3	6.5
17	MP3A	My	-.003	6.5
18	MP3A	Mz	.001	6.5
19	MP3C	Y	3.3	5.5
20	MP3C	My	.003	5.5
21	MP3C	Mz	.002	5.5
22	MP3C	Y	3.3	6.5
23	MP3C	My	.003	6.5
24	MP3C	Mz	.002	6.5
25	MP4A	Y	-35.31	2.62
26	MP4A	My	-.035	2.62
27	MP4A	Mz	0	2.62
28	MP4A	Y	-35.31	4.55
29	MP4A	My	-.035	4.55
30	MP4A	Mz	0	4.55
31	MP4B	Y	-35.31	2.62
32	MP4B	My	.018	2.62
33	MP4B	Mz	-.031	2.62
34	MP4B	Y	-35.31	4.55
35	MP4B	My	.018	4.55
36	MP4B	Mz	-.031	4.55
37	MP4C	Y	-35.31	2.62
38	MP4C	My	.018	2.62
39	MP4C	Mz	.031	2.62
40	MP4C	Y	-35.31	4.55
41	MP4C	My	.018	4.55
42	MP4C	Mz	.031	4.55
43	MP3A	Y	-68.342	1.33
44	MP3A	My	-.068	1.33
45	MP3A	Mz	.04	1.33
46	MP3A	Y	-68.342	5.83
47	MP3A	My	-.068	5.83
48	MP3A	Mz	.04	5.83
49	MP3B	Y	-68.342	1.33
50	MP3B	My	-.000354	1.33
51	MP3B	Mz	-.079	1.33
52	MP3B	Y	-68.342	5.83
53	MP3B	My	-.000354	5.83
54	MP3B	Mz	-.079	5.83
55	MP3C	Y	-68.342	1.33
56	MP3C	My	.069	1.33
57	MP3C	Mz	.039	1.33
58	MP3C	Y	-68.342	5.83
59	MP3C	My	.069	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mz	.039	5.83
61	MP3A	Y	-68.342	1.33
62	MP3A	My	-.068	1.33
63	MP3A	Mz	-.04	1.33
64	MP3A	Y	-68.342	5.83
65	MP3A	My	-.068	5.83
66	MP3A	Mz	-.04	5.83
67	MP3B	Y	-68.342	1.33
68	MP3B	My	.069	1.33
69	MP3B	Mz	-.039	1.33
70	MP3B	Y	-68.342	5.83
71	MP3B	My	.069	5.83
72	MP3B	Mz	-.039	5.83
73	MP3C	Y	-68.342	1.33
74	MP3C	My	-.000354	1.33
75	MP3C	Mz	.079	1.33
76	MP3C	Y	-68.342	5.83
77	MP3C	My	-.000354	5.83
78	MP3C	Mz	.079	5.83
79	MP1A	Y	-6.66	3.07
80	MP1A	My	-.004	3.07
81	MP1A	Mz	0	3.07
82	MP1A	Y	-6.66	4.1
83	MP1A	My	-.004	4.1
84	MP1A	Mz	0	4.1
85	MP1B	Y	-6.66	3.07
86	MP1B	My	.002	3.07
87	MP1B	Mz	-.004	3.07
88	MP1B	Y	-6.66	4.1
89	MP1B	My	.002	4.1
90	MP1B	Mz	-.004	4.1
91	MP1C	Y	-6.66	3.07
92	MP1C	My	.002	3.07
93	MP1C	Mz	.004	3.07
94	MP1C	Y	-6.66	4.1
95	MP1C	My	.002	4.1
96	MP1C	Mz	.004	4.1
97	MP2A	Y	-22.256	3.42
98	MP2A	My	.019	3.42
99	MP2A	Mz	0	3.42
100	MP2A	Y	-22.256	3.42
101	MP2A	My	.019	3.42
102	MP2A	Mz	0	3.42
103	MP2B	Y	-22.256	3.42
104	MP2B	My	-.009	3.42
105	MP2B	Mz	.016	3.42
106	MP2B	Y	-22.256	3.42
107	MP2B	My	-.009	3.42
108	MP2B	Mz	.016	3.42
109	MP2C	Y	-22.256	3.42
110	MP2C	My	-.009	3.42
111	MP2C	Mz	-.016	3.42
112	MP2C	Y	-22.256	3.42
113	MP2C	My	-.009	3.42
114	MP2C	Mz	-.016	3.42
115	MP3A	Y	-20.014	3.42
116	MP3A	My	.017	3.42
117	MP3A	Mz	0	3.42
118	MP3A	Y	-20.014	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	My	.017	3.42
120	MP3A	Mz	0	3.42
121	MP3B	Y	-20.014	3.42
122	MP3B	My	-.008	3.42
123	MP3B	Mz	.014	3.42
124	MP3B	Y	-20.014	3.42
125	MP3B	My	-.008	3.42
126	MP3B	Mz	.014	3.42
127	MP3C	Y	-20.014	3.42
128	MP3C	My	-.008	3.42
129	MP3C	Mz	-.014	3.42
130	MP3C	Y	-20.014	3.42
131	MP3C	My	-.008	3.42
132	MP3C	Mz	-.014	3.42
133	OVPB	Y	-43.588	1.5
134	OVPB	My	.018	1.5
135	OVPB	Mz	-.031	1.5
136	OVPB	Y	-43.588	1.5
137	OVPB	My	.018	1.5
138	OVPB	Mz	-.031	1.5
139	OVPC	Y	-43.588	1.5
140	OVPC	My	0	1.5
141	OVPC	Mz	.036	1.5
142	OVPC	Y	-43.588	1.5
143	OVPC	My	0	1.5
144	OVPC	Mz	.036	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	5.5
2	MP3A	Z	-20.082	5.5
3	MP3A	Mx	-.007	5.5
4	MP3A	X	0	6.5
5	MP3A	Z	-20.082	6.5
6	MP3A	Mx	-.007	6.5
7	MP3C	X	0	5.5
8	MP3C	Z	-20.127	5.5
9	MP3C	Mx	.021	5.5
10	MP3C	X	0	6.5
11	MP3C	Z	-20.127	6.5
12	MP3C	Mx	.021	6.5
13	MP3A	X	0	5.5
14	MP3A	Z	-20.082	5.5
15	MP3A	Mx	.007	5.5
16	MP3A	X	0	6.5
17	MP3A	Z	-20.082	6.5
18	MP3A	Mx	.007	6.5
19	MP3C	X	0	5.5
20	MP3C	Z	-20.127	5.5
21	MP3C	Mx	.014	5.5
22	MP3C	X	0	6.5
23	MP3C	Z	-20.127	6.5
24	MP3C	Mx	.014	6.5
25	MP4A	X	0	2.62
26	MP4A	Z	-82.205	2.62
27	MP4A	Mx	0	2.62
28	MP4A	X	0	4.55
29	MP4A	Z	-82.205	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	0	4.55
31	MP4B	X	0	2.62
32	MP4B	Z	-41.784	2.62
33	MP4B	Mx	.036	2.62
34	MP4B	X	0	4.55
35	MP4B	Z	-41.784	4.55
36	MP4B	Mx	.036	4.55
37	MP4C	X	0	2.62
38	MP4C	Z	-41.784	2.62
39	MP4C	Mx	-.036	2.62
40	MP4C	X	0	4.55
41	MP4C	Z	-41.784	4.55
42	MP4C	Mx	-.036	4.55
43	MP3A	X	0	1.33
44	MP3A	Z	-170.493	1.33
45	MP3A	Mx	-.099	1.33
46	MP3A	X	0	5.83
47	MP3A	Z	-170.493	5.83
48	MP3A	Mx	-.099	5.83
49	MP3B	X	0	1.33
50	MP3B	Z	-149.574	1.33
51	MP3B	Mx	.173	1.33
52	MP3B	X	0	5.83
53	MP3B	Z	-149.574	5.83
54	MP3B	Mx	.173	5.83
55	MP3C	X	0	1.33
56	MP3C	Z	-149.574	1.33
57	MP3C	Mx	-.086	1.33
58	MP3C	X	0	5.83
59	MP3C	Z	-149.574	5.83
60	MP3C	Mx	-.086	5.83
61	MP3A	X	0	1.33
62	MP3A	Z	-170.493	1.33
63	MP3A	Mx	.099	1.33
64	MP3A	X	0	5.83
65	MP3A	Z	-170.493	5.83
66	MP3A	Mx	.099	5.83
67	MP3B	X	0	1.33
68	MP3B	Z	-149.574	1.33
69	MP3B	Mx	.086	1.33
70	MP3B	X	0	5.83
71	MP3B	Z	-149.574	5.83
72	MP3B	Mx	.086	5.83
73	MP3C	X	0	1.33
74	MP3C	Z	-149.574	1.33
75	MP3C	Mx	-.173	1.33
76	MP3C	X	0	5.83
77	MP3C	Z	-149.574	5.83
78	MP3C	Mx	-.173	5.83
79	MP1A	X	0	3.07
80	MP1A	Z	-18.664	3.07
81	MP1A	Mx	0	3.07
82	MP1A	X	0	4.1
83	MP1A	Z	-18.664	4.1
84	MP1A	Mx	0	4.1
85	MP1B	X	0	3.07
86	MP1B	Z	-7.411	3.07
87	MP1B	Mx	.004	3.07
88	MP1B	X	0	4.1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-7.411	4.1
90	MP1B	Mx	.004	4.1
91	MP1C	X	0	3.07
92	MP1C	Z	-7.411	3.07
93	MP1C	Mx	-.004	3.07
94	MP1C	X	0	4.1
95	MP1C	Z	-7.411	4.1
96	MP1C	Mx	-.004	4.1
97	MP2A	X	0	3.42
98	MP2A	Z	-32.505	3.42
99	MP2A	Mx	0	3.42
100	MP2A	X	0	3.42
101	MP2A	Z	-32.505	3.42
102	MP2A	Mx	0	3.42
103	MP2B	X	0	3.42
104	MP2B	Z	-24.483	3.42
105	MP2B	Mx	-.018	3.42
106	MP2B	X	0	3.42
107	MP2B	Z	-24.483	3.42
108	MP2B	Mx	-.018	3.42
109	MP2C	X	0	3.42
110	MP2C	Z	-24.483	3.42
111	MP2C	Mx	.018	3.42
112	MP2C	X	0	3.42
113	MP2C	Z	-24.483	3.42
114	MP2C	Mx	.018	3.42
115	MP3A	X	0	3.42
116	MP3A	Z	-32.505	3.42
117	MP3A	Mx	0	3.42
118	MP3A	X	0	3.42
119	MP3A	Z	-32.505	3.42
120	MP3A	Mx	0	3.42
121	MP3B	X	0	3.42
122	MP3B	Z	-21.495	3.42
123	MP3B	Mx	-.016	3.42
124	MP3B	X	0	3.42
125	MP3B	Z	-21.495	3.42
126	MP3B	Mx	-.016	3.42
127	MP3C	X	0	3.42
128	MP3C	Z	-21.495	3.42
129	MP3C	Mx	.016	3.42
130	MP3C	X	0	3.42
131	MP3C	Z	-21.495	3.42
132	MP3C	Mx	.016	3.42
133	OVPB	X	0	1.5
134	OVPB	Z	-54.524	1.5
135	OVPB	Mx	.039	1.5
136	OVPB	X	0	1.5
137	OVPB	Z	-54.524	1.5
138	OVPB	Mx	.039	1.5
139	OVPC	X	0	1.5
140	OVPC	Z	-50.54	1.5
141	OVPC	Mx	-.042	1.5
142	OVPC	X	0	1.5
143	OVPC	Z	-50.54	1.5
144	OVPC	Mx	-.042	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	10.048	5.5
2	MP3A	Z	-17.404	5.5
3	MP3A	Mx	.004	5.5
4	MP3A	X	10.048	6.5
5	MP3A	Z	-17.404	6.5
6	MP3A	Mx	.004	6.5
7	MP3C	X	10.048	5.5
8	MP3C	Z	-17.404	5.5
9	MP3C	Mx	.016	5.5
10	MP3C	X	10.048	6.5
11	MP3C	Z	-17.404	6.5
12	MP3C	Mx	.016	6.5
13	MP3A	X	10.048	5.5
14	MP3A	Z	-17.404	5.5
15	MP3A	Mx	.016	5.5
16	MP3A	X	10.048	6.5
17	MP3A	Z	-17.404	6.5
18	MP3A	Mx	.016	6.5
19	MP3C	X	10.048	5.5
20	MP3C	Z	-17.404	5.5
21	MP3C	Mx	.004	5.5
22	MP3C	X	10.048	6.5
23	MP3C	Z	-17.404	6.5
24	MP3C	Mx	.004	6.5
25	MP4A	X	34.366	2.62
26	MP4A	Z	-59.523	2.62
27	MP4A	Mx	-.034	2.62
28	MP4A	X	34.366	4.55
29	MP4A	Z	-59.523	4.55
30	MP4A	Mx	-.034	4.55
31	MP4B	X	14.155	2.62
32	MP4B	Z	-24.518	2.62
33	MP4B	Mx	.028	2.62
34	MP4B	X	14.155	4.55
35	MP4B	Z	-24.518	4.55
36	MP4B	Mx	.028	4.55
37	MP4C	X	34.366	2.62
38	MP4C	Z	-59.523	2.62
39	MP4C	Mx	-.034	2.62
40	MP4C	X	34.366	4.55
41	MP4C	Z	-59.523	4.55
42	MP4C	Mx	-.034	4.55
43	MP3A	X	81.76	1.33
44	MP3A	Z	-141.612	1.33
45	MP3A	Mx	-.164	1.33
46	MP3A	X	81.76	5.83
47	MP3A	Z	-141.612	5.83
48	MP3A	Mx	-.164	5.83
49	MP3B	X	71.301	1.33
50	MP3B	Z	-123.496	1.33
51	MP3B	Mx	.143	1.33
52	MP3B	X	71.301	5.83
53	MP3B	Z	-123.496	5.83
54	MP3B	Mx	.143	5.83
55	MP3C	X	81.76	1.33
56	MP3C	Z	-141.612	1.33
57	MP3C	Mx	.000848	1.33
58	MP3C	X	81.76	5.83
59	MP3C	Z	-141.612	5.83

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	.000848	5.83
61	MP3A	X	81.76	1.33
62	MP3A	Z	-141.612	1.33
63	MP3A	Mx	.000847	1.33
64	MP3A	X	81.76	5.83
65	MP3A	Z	-141.612	5.83
66	MP3A	Mx	.000847	5.83
67	MP3B	X	71.301	1.33
68	MP3B	Z	-123.496	1.33
69	MP3B	Mx	.143	1.33
70	MP3B	X	71.301	5.83
71	MP3B	Z	-123.496	5.83
72	MP3B	Mx	.143	5.83
73	MP3C	X	81.76	1.33
74	MP3C	Z	-141.612	1.33
75	MP3C	Mx	-.164	1.33
76	MP3C	X	81.76	5.83
77	MP3C	Z	-141.612	5.83
78	MP3C	Mx	-.164	5.83
79	MP1A	X	7.457	3.07
80	MP1A	Z	-12.915	3.07
81	MP1A	Mx	-.005	3.07
82	MP1A	X	7.457	4.1
83	MP1A	Z	-12.915	4.1
84	MP1A	Mx	-.005	4.1
85	MP1B	X	1.83	3.07
86	MP1B	Z	-3.17	3.07
87	MP1B	Mx	.002	3.07
88	MP1B	X	1.83	4.1
89	MP1B	Z	-3.17	4.1
90	MP1B	Mx	.002	4.1
91	MP1C	X	7.457	3.07
92	MP1C	Z	-12.915	3.07
93	MP1C	Mx	-.005	3.07
94	MP1C	X	7.457	4.1
95	MP1C	Z	-12.915	4.1
96	MP1C	Mx	-.005	4.1
97	MP2A	X	14.915	3.42
98	MP2A	Z	-25.834	3.42
99	MP2A	Mx	.012	3.42
100	MP2A	X	14.915	3.42
101	MP2A	Z	-25.834	3.42
102	MP2A	Mx	.012	3.42
103	MP2B	X	10.905	3.42
104	MP2B	Z	-18.888	3.42
105	MP2B	Mx	-.018	3.42
106	MP2B	X	10.905	3.42
107	MP2B	Z	-18.888	3.42
108	MP2B	Mx	-.018	3.42
109	MP2C	X	14.915	3.42
110	MP2C	Z	-25.834	3.42
111	MP2C	Mx	.012	3.42
112	MP2C	X	14.915	3.42
113	MP2C	Z	-25.834	3.42
114	MP2C	Mx	.012	3.42
115	MP3A	X	14.417	3.42
116	MP3A	Z	-24.972	3.42
117	MP3A	Mx	.012	3.42
118	MP3A	X	14.417	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	-24.972	3.42
120	MP3A	Mx	.012	3.42
121	MP3B	X	8.913	3.42
122	MP3B	Z	-15.437	3.42
123	MP3B	Mx	-.015	3.42
124	MP3B	X	8.913	3.42
125	MP3B	Z	-15.437	3.42
126	MP3B	Mx	-.015	3.42
127	MP3C	X	14.417	3.42
128	MP3C	Z	-24.972	3.42
129	MP3C	Mx	.012	3.42
130	MP3C	X	14.417	3.42
131	MP3C	Z	-24.972	3.42
132	MP3C	Mx	.012	3.42
133	OVPB	X	25.27	1.5
134	OVPB	Z	-43.769	1.5
135	OVPB	Mx	.042	1.5
136	OVPB	X	25.27	1.5
137	OVPB	Z	-43.769	1.5
138	OVPB	Mx	.042	1.5
139	OVPC	X	27.262	1.5
140	OVPC	Z	-47.219	1.5
141	OVPC	Mx	-.039	1.5
142	OVPC	X	27.262	1.5
143	OVPC	Z	-47.219	1.5
144	OVPC	Mx	-.039	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	17.43	5.5
2	MP3A	Z	-10.063	5.5
3	MP3A	Mx	.014	5.5
4	MP3A	X	17.43	6.5
5	MP3A	Z	-10.063	6.5
6	MP3A	Mx	.014	6.5
7	MP3C	X	17.392	5.5
8	MP3C	Z	-10.041	5.5
9	MP3C	Mx	.007	5.5
10	MP3C	X	17.392	6.5
11	MP3C	Z	-10.041	6.5
12	MP3C	Mx	.007	6.5
13	MP3A	X	17.43	5.5
14	MP3A	Z	-10.063	5.5
15	MP3A	Mx	.021	5.5
16	MP3A	X	17.43	6.5
17	MP3A	Z	-10.063	6.5
18	MP3A	Mx	.021	6.5
19	MP3C	X	17.392	5.5
20	MP3C	Z	-10.041	5.5
21	MP3C	Mx	-.007	5.5
22	MP3C	X	17.392	6.5
23	MP3C	Z	-10.041	6.5
24	MP3C	Mx	-.007	6.5
25	MP4A	X	36.186	2.62
26	MP4A	Z	-20.892	2.62
27	MP4A	Mx	-.036	2.62
28	MP4A	X	36.186	4.55
29	MP4A	Z	-20.892	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	-.036	4.55
31	MP4B	X	36.186	2.62
32	MP4B	Z	-20.892	2.62
33	MP4B	Mx	.036	2.62
34	MP4B	X	36.186	4.55
35	MP4B	Z	-20.892	4.55
36	MP4B	Mx	.036	4.55
37	MP4C	X	71.192	2.62
38	MP4C	Z	-41.103	2.62
39	MP4C	Mx	0	2.62
40	MP4C	X	71.192	4.55
41	MP4C	Z	-41.103	4.55
42	MP4C	Mx	0	4.55
43	MP3A	X	129.535	1.33
44	MP3A	Z	-74.787	1.33
45	MP3A	Mx	-.173	1.33
46	MP3A	X	129.535	5.83
47	MP3A	Z	-74.787	5.83
48	MP3A	Mx	-.173	5.83
49	MP3B	X	129.535	1.33
50	MP3B	Z	-74.787	1.33
51	MP3B	Mx	.086	1.33
52	MP3B	X	129.535	5.83
53	MP3B	Z	-74.787	5.83
54	MP3B	Mx	.086	5.83
55	MP3C	X	147.651	1.33
56	MP3C	Z	-85.246	1.33
57	MP3C	Mx	.099	1.33
58	MP3C	X	147.651	5.83
59	MP3C	Z	-85.246	5.83
60	MP3C	Mx	.099	5.83
61	MP3A	X	129.535	1.33
62	MP3A	Z	-74.787	1.33
63	MP3A	Mx	-.086	1.33
64	MP3A	X	129.535	5.83
65	MP3A	Z	-74.787	5.83
66	MP3A	Mx	-.086	5.83
67	MP3B	X	129.535	1.33
68	MP3B	Z	-74.787	1.33
69	MP3B	Mx	.173	1.33
70	MP3B	X	129.535	5.83
71	MP3B	Z	-74.787	5.83
72	MP3B	Mx	.173	5.83
73	MP3C	X	147.651	1.33
74	MP3C	Z	-85.246	1.33
75	MP3C	Mx	-.099	1.33
76	MP3C	X	147.651	5.83
77	MP3C	Z	-85.246	5.83
78	MP3C	Mx	-.099	5.83
79	MP1A	X	6.418	3.07
80	MP1A	Z	-3.706	3.07
81	MP1A	Mx	-.004	3.07
82	MP1A	X	6.418	4.1
83	MP1A	Z	-3.706	4.1
84	MP1A	Mx	-.004	4.1
85	MP1B	X	6.418	3.07
86	MP1B	Z	-3.706	3.07
87	MP1B	Mx	.004	3.07
88	MP1B	X	6.418	4.1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-3.706	4.1
90	MP1B	Mx	.004	4.1
91	MP1C	X	16.163	3.07
92	MP1C	Z	-9.332	3.07
93	MP1C	Mx	0	3.07
94	MP1C	X	16.163	4.1
95	MP1C	Z	-9.332	4.1
96	MP1C	Mx	0	4.1
97	MP2A	X	21.203	3.42
98	MP2A	Z	-12.242	3.42
99	MP2A	Mx	.018	3.42
100	MP2A	X	21.203	3.42
101	MP2A	Z	-12.242	3.42
102	MP2A	Mx	.018	3.42
103	MP2B	X	21.203	3.42
104	MP2B	Z	-12.242	3.42
105	MP2B	Mx	-.018	3.42
106	MP2B	X	21.203	3.42
107	MP2B	Z	-12.242	3.42
108	MP2B	Mx	-.018	3.42
109	MP2C	X	28.15	3.42
110	MP2C	Z	-16.252	3.42
111	MP2C	Mx	0	3.42
112	MP2C	X	28.15	3.42
113	MP2C	Z	-16.252	3.42
114	MP2C	Mx	0	3.42
115	MP3A	X	18.615	3.42
116	MP3A	Z	-10.748	3.42
117	MP3A	Mx	.016	3.42
118	MP3A	X	18.615	3.42
119	MP3A	Z	-10.748	3.42
120	MP3A	Mx	.016	3.42
121	MP3B	X	18.615	3.42
122	MP3B	Z	-10.748	3.42
123	MP3B	Mx	-.016	3.42
124	MP3B	X	18.615	3.42
125	MP3B	Z	-10.748	3.42
126	MP3B	Mx	-.016	3.42
127	MP3C	X	28.15	3.42
128	MP3C	Z	-16.252	3.42
129	MP3C	Mx	0	3.42
130	MP3C	X	28.15	3.42
131	MP3C	Z	-16.252	3.42
132	MP3C	Mx	0	3.42
133	OVPB	X	47.219	1.5
134	OVPB	Z	-27.262	1.5
135	OVPB	Mx	.039	1.5
136	OVPB	X	47.219	1.5
137	OVPB	Z	-27.262	1.5
138	OVPB	Mx	.039	1.5
139	OVPC	X	54.12	1.5
140	OVPC	Z	-31.246	1.5
141	OVPC	Mx	-.026	1.5
142	OVPC	X	54.12	1.5
143	OVPC	Z	-31.246	1.5
144	OVPC	Mx	-.026	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	20.141	5.5
2	MP3A	Z	0	5.5
3	MP3A	Mx	.02	5.5
4	MP3A	X	20.141	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	.02	6.5
7	MP3C	X	20.097	5.5
8	MP3C	Z	0	5.5
9	MP3C	Mx	-.004	5.5
10	MP3C	X	20.097	6.5
11	MP3C	Z	0	6.5
12	MP3C	Mx	-.004	6.5
13	MP3A	X	20.141	5.5
14	MP3A	Z	0	5.5
15	MP3A	Mx	.02	5.5
16	MP3A	X	20.141	6.5
17	MP3A	Z	0	6.5
18	MP3A	Mx	.02	6.5
19	MP3C	X	20.097	5.5
20	MP3C	Z	0	5.5
21	MP3C	Mx	-.016	5.5
22	MP3C	X	20.097	6.5
23	MP3C	Z	0	6.5
24	MP3C	Mx	-.016	6.5
25	MP4A	X	28.311	2.62
26	MP4A	Z	0	2.62
27	MP4A	Mx	-.028	2.62
28	MP4A	X	28.311	4.55
29	MP4A	Z	0	4.55
30	MP4A	Mx	-.028	4.55
31	MP4B	X	68.732	2.62
32	MP4B	Z	0	2.62
33	MP4B	Mx	.034	2.62
34	MP4B	X	68.732	4.55
35	MP4B	Z	0	4.55
36	MP4B	Mx	.034	4.55
37	MP4C	X	68.732	2.62
38	MP4C	Z	0	2.62
39	MP4C	Mx	.034	2.62
40	MP4C	X	68.732	4.55
41	MP4C	Z	0	4.55
42	MP4C	Mx	.034	4.55
43	MP3A	X	142.601	1.33
44	MP3A	Z	0	1.33
45	MP3A	Mx	-.143	1.33
46	MP3A	X	142.601	5.83
47	MP3A	Z	0	5.83
48	MP3A	Mx	-.143	5.83
49	MP3B	X	163.52	1.33
50	MP3B	Z	0	1.33
51	MP3B	Mx	-.000847	1.33
52	MP3B	X	163.52	5.83
53	MP3B	Z	0	5.83
54	MP3B	Mx	-.000847	5.83
55	MP3C	X	163.52	1.33
56	MP3C	Z	0	1.33
57	MP3C	Mx	.164	1.33
58	MP3C	X	163.52	5.83
59	MP3C	Z	0	5.83

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	.164	5.83
61	MP3A	X	142.601	1.33
62	MP3A	Z	0	1.33
63	MP3A	Mx	-.143	1.33
64	MP3A	X	142.601	5.83
65	MP3A	Z	0	5.83
66	MP3A	Mx	-.143	5.83
67	MP3B	X	163.52	1.33
68	MP3B	Z	0	1.33
69	MP3B	Mx	.164	1.33
70	MP3B	X	163.52	5.83
71	MP3B	Z	0	5.83
72	MP3B	Mx	.164	5.83
73	MP3C	X	163.52	1.33
74	MP3C	Z	0	1.33
75	MP3C	Mx	-.000847	1.33
76	MP3C	X	163.52	5.83
77	MP3C	Z	0	5.83
78	MP3C	Mx	-.000847	5.83
79	MP1A	X	3.66	3.07
80	MP1A	Z	0	3.07
81	MP1A	Mx	-.002	3.07
82	MP1A	X	3.66	4.1
83	MP1A	Z	0	4.1
84	MP1A	Mx	-.002	4.1
85	MP1B	X	14.913	3.07
86	MP1B	Z	0	3.07
87	MP1B	Mx	.005	3.07
88	MP1B	X	14.913	4.1
89	MP1B	Z	0	4.1
90	MP1B	Mx	.005	4.1
91	MP1C	X	14.913	3.07
92	MP1C	Z	0	3.07
93	MP1C	Mx	.005	3.07
94	MP1C	X	14.913	4.1
95	MP1C	Z	0	4.1
96	MP1C	Mx	.005	4.1
97	MP2A	X	21.81	3.42
98	MP2A	Z	0	3.42
99	MP2A	Mx	.018	3.42
100	MP2A	X	21.81	3.42
101	MP2A	Z	0	3.42
102	MP2A	Mx	.018	3.42
103	MP2B	X	29.831	3.42
104	MP2B	Z	0	3.42
105	MP2B	Mx	-.012	3.42
106	MP2B	X	29.831	3.42
107	MP2B	Z	0	3.42
108	MP2B	Mx	-.012	3.42
109	MP2C	X	29.831	3.42
110	MP2C	Z	0	3.42
111	MP2C	Mx	-.012	3.42
112	MP2C	X	29.831	3.42
113	MP2C	Z	0	3.42
114	MP2C	Mx	-.012	3.42
115	MP3A	X	17.825	3.42
116	MP3A	Z	0	3.42
117	MP3A	Mx	.015	3.42
118	MP3A	X	17.825	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	0	3.42
120	MP3A	Mx	.015	3.42
121	MP3B	X	28.835	3.42
122	MP3B	Z	0	3.42
123	MP3B	Mx	-.012	3.42
124	MP3B	X	28.835	3.42
125	MP3B	Z	0	3.42
126	MP3B	Mx	-.012	3.42
127	MP3C	X	28.835	3.42
128	MP3C	Z	0	3.42
129	MP3C	Mx	-.012	3.42
130	MP3C	X	28.835	3.42
131	MP3C	Z	0	3.42
132	MP3C	Mx	-.012	3.42
133	OVPB	X	62.493	1.5
134	OVPB	Z	0	1.5
135	OVPB	Mx	.026	1.5
136	OVPB	X	62.493	1.5
137	OVPB	Z	0	1.5
138	OVPB	Mx	.026	1.5
139	OVPC	X	66.477	1.5
140	OVPC	Z	0	1.5
141	OVPC	Mx	0	1.5
142	OVPC	X	66.477	1.5
143	OVPC	Z	0	1.5
144	OVPC	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	17.43	5.5
2	MP3A	Z	10.063	5.5
3	MP3A	Mx	.021	5.5
4	MP3A	X	17.43	6.5
5	MP3A	Z	10.063	6.5
6	MP3A	Mx	.021	6.5
7	MP3C	X	17.43	5.5
8	MP3C	Z	10.063	5.5
9	MP3C	Mx	-.014	5.5
10	MP3C	X	17.43	6.5
11	MP3C	Z	10.063	6.5
12	MP3C	Mx	-.014	6.5
13	MP3A	X	17.43	5.5
14	MP3A	Z	10.063	5.5
15	MP3A	Mx	.014	5.5
16	MP3A	X	17.43	6.5
17	MP3A	Z	10.063	6.5
18	MP3A	Mx	.014	6.5
19	MP3C	X	17.43	5.5
20	MP3C	Z	10.063	5.5
21	MP3C	Mx	-.021	5.5
22	MP3C	X	17.43	6.5
23	MP3C	Z	10.063	6.5
24	MP3C	Mx	-.021	6.5
25	MP4A	X	36.186	2.62
26	MP4A	Z	20.892	2.62
27	MP4A	Mx	-.036	2.62
28	MP4A	X	36.186	4.55
29	MP4A	Z	20.892	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	-.036	4.55
31	MP4B	X	71.192	2.62
32	MP4B	Z	41.103	2.62
33	MP4B	Mx	0	2.62
34	MP4B	X	71.192	4.55
35	MP4B	Z	41.103	4.55
36	MP4B	Mx	0	4.55
37	MP4C	X	36.186	2.62
38	MP4C	Z	20.892	2.62
39	MP4C	Mx	.036	2.62
40	MP4C	X	36.186	4.55
41	MP4C	Z	20.892	4.55
42	MP4C	Mx	.036	4.55
43	MP3A	X	129.535	1.33
44	MP3A	Z	74.787	1.33
45	MP3A	Mx	-.086	1.33
46	MP3A	X	129.535	5.83
47	MP3A	Z	74.787	5.83
48	MP3A	Mx	-.086	5.83
49	MP3B	X	147.651	1.33
50	MP3B	Z	85.246	1.33
51	MP3B	Mx	-.099	1.33
52	MP3B	X	147.651	5.83
53	MP3B	Z	85.246	5.83
54	MP3B	Mx	-.099	5.83
55	MP3C	X	129.535	1.33
56	MP3C	Z	74.787	1.33
57	MP3C	Mx	.173	1.33
58	MP3C	X	129.535	5.83
59	MP3C	Z	74.787	5.83
60	MP3C	Mx	.173	5.83
61	MP3A	X	129.535	1.33
62	MP3A	Z	74.787	1.33
63	MP3A	Mx	-.173	1.33
64	MP3A	X	129.535	5.83
65	MP3A	Z	74.787	5.83
66	MP3A	Mx	-.173	5.83
67	MP3B	X	147.651	1.33
68	MP3B	Z	85.246	1.33
69	MP3B	Mx	.099	1.33
70	MP3B	X	147.651	5.83
71	MP3B	Z	85.246	5.83
72	MP3B	Mx	.099	5.83
73	MP3C	X	129.535	1.33
74	MP3C	Z	74.787	1.33
75	MP3C	Mx	.086	1.33
76	MP3C	X	129.535	5.83
77	MP3C	Z	74.787	5.83
78	MP3C	Mx	.086	5.83
79	MP1A	X	6.418	3.07
80	MP1A	Z	3.706	3.07
81	MP1A	Mx	-.004	3.07
82	MP1A	X	6.418	4.1
83	MP1A	Z	3.706	4.1
84	MP1A	Mx	-.004	4.1
85	MP1B	X	16.163	3.07
86	MP1B	Z	9.332	3.07
87	MP1B	Mx	0	3.07
88	MP1B	X	16.163	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	9.332	4.1
90	MP1B	Mx	0	4.1
91	MP1C	X	6.418	3.07
92	MP1C	Z	3.706	3.07
93	MP1C	Mx	.004	3.07
94	MP1C	X	6.418	4.1
95	MP1C	Z	3.706	4.1
96	MP1C	Mx	.004	4.1
97	MP2A	X	21.203	3.42
98	MP2A	Z	12.242	3.42
99	MP2A	Mx	.018	3.42
100	MP2A	X	21.203	3.42
101	MP2A	Z	12.242	3.42
102	MP2A	Mx	.018	3.42
103	MP2B	X	28.15	3.42
104	MP2B	Z	16.252	3.42
105	MP2B	Mx	0	3.42
106	MP2B	X	28.15	3.42
107	MP2B	Z	16.252	3.42
108	MP2B	Mx	0	3.42
109	MP2C	X	21.203	3.42
110	MP2C	Z	12.242	3.42
111	MP2C	Mx	-.018	3.42
112	MP2C	X	21.203	3.42
113	MP2C	Z	12.242	3.42
114	MP2C	Mx	-.018	3.42
115	MP3A	X	18.615	3.42
116	MP3A	Z	10.748	3.42
117	MP3A	Mx	.016	3.42
118	MP3A	X	18.615	3.42
119	MP3A	Z	10.748	3.42
120	MP3A	Mx	.016	3.42
121	MP3B	X	28.15	3.42
122	MP3B	Z	16.252	3.42
123	MP3B	Mx	0	3.42
124	MP3B	X	28.15	3.42
125	MP3B	Z	16.252	3.42
126	MP3B	Mx	0	3.42
127	MP3C	X	18.615	3.42
128	MP3C	Z	10.748	3.42
129	MP3C	Mx	-.016	3.42
130	MP3C	X	18.615	3.42
131	MP3C	Z	10.748	3.42
132	MP3C	Mx	-.016	3.42
133	OVPB	X	57.571	1.5
134	OVPB	Z	33.239	1.5
135	OVPB	Mx	0	1.5
136	OVPB	X	57.571	1.5
137	OVPB	Z	33.239	1.5
138	OVPB	Mx	0	1.5
139	OVPC	X	54.12	1.5
140	OVPC	Z	31.246	1.5
141	OVPC	Mx	.026	1.5
142	OVPC	X	54.12	1.5
143	OVPC	Z	31.246	1.5
144	OVPC	Mx	.026	1.5

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	10.048	5.5
2	MP3A	Z	17.404	5.5
3	MP3A	Mx	.016	5.5
4	MP3A	X	10.048	6.5
5	MP3A	Z	17.404	6.5
6	MP3A	Mx	.016	6.5
7	MP3C	X	10.071	5.5
8	MP3C	Z	17.443	5.5
9	MP3C	Mx	-.02	5.5
10	MP3C	X	10.071	6.5
11	MP3C	Z	17.443	6.5
12	MP3C	Mx	-.02	6.5
13	MP3A	X	10.048	5.5
14	MP3A	Z	17.404	5.5
15	MP3A	Mx	.004	5.5
16	MP3A	X	10.048	6.5
17	MP3A	Z	17.404	6.5
18	MP3A	Mx	.004	6.5
19	MP3C	X	10.071	5.5
20	MP3C	Z	17.443	5.5
21	MP3C	Mx	-.02	5.5
22	MP3C	X	10.071	6.5
23	MP3C	Z	17.443	6.5
24	MP3C	Mx	-.02	6.5
25	MP4A	X	34.366	2.62
26	MP4A	Z	59.523	2.62
27	MP4A	Mx	-.034	2.62
28	MP4A	X	34.366	4.55
29	MP4A	Z	59.523	4.55
30	MP4A	Mx	-.034	4.55
31	MP4B	X	34.366	2.62
32	MP4B	Z	59.523	2.62
33	MP4B	Mx	-.034	2.62
34	MP4B	X	34.366	4.55
35	MP4B	Z	59.523	4.55
36	MP4B	Mx	-.034	4.55
37	MP4C	X	14.155	2.62
38	MP4C	Z	24.518	2.62
39	MP4C	Mx	.028	2.62
40	MP4C	X	14.155	4.55
41	MP4C	Z	24.518	4.55
42	MP4C	Mx	.028	4.55
43	MP3A	X	81.76	1.33
44	MP3A	Z	141.612	1.33
45	MP3A	Mx	.000847	1.33
46	MP3A	X	81.76	5.83
47	MP3A	Z	141.612	5.83
48	MP3A	Mx	.000847	5.83
49	MP3B	X	81.76	1.33
50	MP3B	Z	141.612	1.33
51	MP3B	Mx	-.164	1.33
52	MP3B	X	81.76	5.83
53	MP3B	Z	141.612	5.83
54	MP3B	Mx	-.164	5.83
55	MP3C	X	71.301	1.33
56	MP3C	Z	123.496	1.33
57	MP3C	Mx	.143	1.33
58	MP3C	X	71.301	5.83
59	MP3C	Z	123.496	5.83

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	.143	5.83
61	MP3A	X	81.76	1.33
62	MP3A	Z	141.612	1.33
63	MP3A	Mx	-.164	1.33
64	MP3A	X	81.76	5.83
65	MP3A	Z	141.612	5.83
66	MP3A	Mx	-.164	5.83
67	MP3B	X	81.76	1.33
68	MP3B	Z	141.612	1.33
69	MP3B	Mx	.000848	1.33
70	MP3B	X	81.76	5.83
71	MP3B	Z	141.612	5.83
72	MP3B	Mx	.000848	5.83
73	MP3C	X	71.301	1.33
74	MP3C	Z	123.496	1.33
75	MP3C	Mx	.143	1.33
76	MP3C	X	71.301	5.83
77	MP3C	Z	123.496	5.83
78	MP3C	Mx	.143	5.83
79	MP1A	X	7.457	3.07
80	MP1A	Z	12.915	3.07
81	MP1A	Mx	-.005	3.07
82	MP1A	X	7.457	4.1
83	MP1A	Z	12.915	4.1
84	MP1A	Mx	-.005	4.1
85	MP1B	X	7.457	3.07
86	MP1B	Z	12.915	3.07
87	MP1B	Mx	-.005	3.07
88	MP1B	X	7.457	4.1
89	MP1B	Z	12.915	4.1
90	MP1B	Mx	-.005	4.1
91	MP1C	X	1.83	3.07
92	MP1C	Z	3.17	3.07
93	MP1C	Mx	.002	3.07
94	MP1C	X	1.83	4.1
95	MP1C	Z	3.17	4.1
96	MP1C	Mx	.002	4.1
97	MP2A	X	14.915	3.42
98	MP2A	Z	25.834	3.42
99	MP2A	Mx	.012	3.42
100	MP2A	X	14.915	3.42
101	MP2A	Z	25.834	3.42
102	MP2A	Mx	.012	3.42
103	MP2B	X	14.915	3.42
104	MP2B	Z	25.834	3.42
105	MP2B	Mx	.012	3.42
106	MP2B	X	14.915	3.42
107	MP2B	Z	25.834	3.42
108	MP2B	Mx	.012	3.42
109	MP2C	X	10.905	3.42
110	MP2C	Z	18.888	3.42
111	MP2C	Mx	-.018	3.42
112	MP2C	X	10.905	3.42
113	MP2C	Z	18.888	3.42
114	MP2C	Mx	-.018	3.42
115	MP3A	X	14.417	3.42
116	MP3A	Z	24.972	3.42
117	MP3A	Mx	.012	3.42
118	MP3A	X	14.417	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	24.972	3.42
120	MP3A	Mx	.012	3.42
121	MP3B	X	14.417	3.42
122	MP3B	Z	24.972	3.42
123	MP3B	Mx	.012	3.42
124	MP3B	X	14.417	3.42
125	MP3B	Z	24.972	3.42
126	MP3B	Mx	.012	3.42
127	MP3C	X	8.913	3.42
128	MP3C	Z	15.437	3.42
129	MP3C	Mx	-.015	3.42
130	MP3C	X	8.913	3.42
131	MP3C	Z	15.437	3.42
132	MP3C	Mx	-.015	3.42
133	OVPB	X	31.246	1.5
134	OVPB	Z	54.12	1.5
135	OVPB	Mx	-.026	1.5
136	OVPB	X	31.246	1.5
137	OVPB	Z	54.12	1.5
138	OVPB	Mx	-.026	1.5
139	OVPC	X	27.262	1.5
140	OVPC	Z	47.219	1.5
141	OVPC	Mx	.039	1.5
142	OVPC	X	27.262	1.5
143	OVPC	Z	47.219	1.5
144	OVPC	Mx	.039	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	5.5
2	MP3A	Z	20.082	5.5
3	MP3A	Mx	.007	5.5
4	MP3A	X	0	6.5
5	MP3A	Z	20.082	6.5
6	MP3A	Mx	.007	6.5
7	MP3C	X	0	5.5
8	MP3C	Z	20.127	5.5
9	MP3C	Mx	-.021	5.5
10	MP3C	X	0	6.5
11	MP3C	Z	20.127	6.5
12	MP3C	Mx	-.021	6.5
13	MP3A	X	0	5.5
14	MP3A	Z	20.082	5.5
15	MP3A	Mx	-.007	5.5
16	MP3A	X	0	6.5
17	MP3A	Z	20.082	6.5
18	MP3A	Mx	-.007	6.5
19	MP3C	X	0	5.5
20	MP3C	Z	20.127	5.5
21	MP3C	Mx	-.014	5.5
22	MP3C	X	0	6.5
23	MP3C	Z	20.127	6.5
24	MP3C	Mx	-.014	6.5
25	MP4A	X	0	2.62
26	MP4A	Z	82.205	2.62
27	MP4A	Mx	0	2.62
28	MP4A	X	0	4.55
29	MP4A	Z	82.205	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	0	4.55
31	MP4B	X	0	2.62
32	MP4B	Z	41.784	2.62
33	MP4B	Mx	-.036	2.62
34	MP4B	X	0	4.55
35	MP4B	Z	41.784	4.55
36	MP4B	Mx	-.036	4.55
37	MP4C	X	0	2.62
38	MP4C	Z	41.784	2.62
39	MP4C	Mx	.036	2.62
40	MP4C	X	0	4.55
41	MP4C	Z	41.784	4.55
42	MP4C	Mx	.036	4.55
43	MP3A	X	0	1.33
44	MP3A	Z	170.493	1.33
45	MP3A	Mx	.099	1.33
46	MP3A	X	0	5.83
47	MP3A	Z	170.493	5.83
48	MP3A	Mx	.099	5.83
49	MP3B	X	0	1.33
50	MP3B	Z	149.574	1.33
51	MP3B	Mx	-.173	1.33
52	MP3B	X	0	5.83
53	MP3B	Z	149.574	5.83
54	MP3B	Mx	-.173	5.83
55	MP3C	X	0	1.33
56	MP3C	Z	149.574	1.33
57	MP3C	Mx	.086	1.33
58	MP3C	X	0	5.83
59	MP3C	Z	149.574	5.83
60	MP3C	Mx	.086	5.83
61	MP3A	X	0	1.33
62	MP3A	Z	170.493	1.33
63	MP3A	Mx	-.099	1.33
64	MP3A	X	0	5.83
65	MP3A	Z	170.493	5.83
66	MP3A	Mx	-.099	5.83
67	MP3B	X	0	1.33
68	MP3B	Z	149.574	1.33
69	MP3B	Mx	-.086	1.33
70	MP3B	X	0	5.83
71	MP3B	Z	149.574	5.83
72	MP3B	Mx	-.086	5.83
73	MP3C	X	0	1.33
74	MP3C	Z	149.574	1.33
75	MP3C	Mx	.173	1.33
76	MP3C	X	0	5.83
77	MP3C	Z	149.574	5.83
78	MP3C	Mx	.173	5.83
79	MP1A	X	0	3.07
80	MP1A	Z	18.664	3.07
81	MP1A	Mx	0	3.07
82	MP1A	X	0	4.1
83	MP1A	Z	18.664	4.1
84	MP1A	Mx	0	4.1
85	MP1B	X	0	3.07
86	MP1B	Z	7.411	3.07
87	MP1B	Mx	-.004	3.07
88	MP1B	X	0	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	7.411	4.1
90	MP1B	Mx	-.004	4.1
91	MP1C	X	0	3.07
92	MP1C	Z	7.411	3.07
93	MP1C	Mx	.004	3.07
94	MP1C	X	0	4.1
95	MP1C	Z	7.411	4.1
96	MP1C	Mx	.004	4.1
97	MP2A	X	0	3.42
98	MP2A	Z	32.505	3.42
99	MP2A	Mx	0	3.42
100	MP2A	X	0	3.42
101	MP2A	Z	32.505	3.42
102	MP2A	Mx	0	3.42
103	MP2B	X	0	3.42
104	MP2B	Z	24.483	3.42
105	MP2B	Mx	.018	3.42
106	MP2B	X	0	3.42
107	MP2B	Z	24.483	3.42
108	MP2B	Mx	.018	3.42
109	MP2C	X	0	3.42
110	MP2C	Z	24.483	3.42
111	MP2C	Mx	-.018	3.42
112	MP2C	X	0	3.42
113	MP2C	Z	24.483	3.42
114	MP2C	Mx	-.018	3.42
115	MP3A	X	0	3.42
116	MP3A	Z	32.505	3.42
117	MP3A	Mx	0	3.42
118	MP3A	X	0	3.42
119	MP3A	Z	32.505	3.42
120	MP3A	Mx	0	3.42
121	MP3B	X	0	3.42
122	MP3B	Z	21.495	3.42
123	MP3B	Mx	.016	3.42
124	MP3B	X	0	3.42
125	MP3B	Z	21.495	3.42
126	MP3B	Mx	.016	3.42
127	MP3C	X	0	3.42
128	MP3C	Z	21.495	3.42
129	MP3C	Mx	-.016	3.42
130	MP3C	X	0	3.42
131	MP3C	Z	21.495	3.42
132	MP3C	Mx	-.016	3.42
133	OVPB	X	0	1.5
134	OVPB	Z	54.524	1.5
135	OVPB	Mx	-.039	1.5
136	OVPB	X	0	1.5
137	OVPB	Z	54.524	1.5
138	OVPB	Mx	-.039	1.5
139	OVPC	X	0	1.5
140	OVPC	Z	50.54	1.5
141	OVPC	Mx	.042	1.5
142	OVPC	X	0	1.5
143	OVPC	Z	50.54	1.5
144	OVPC	Mx	.042	1.5

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-10.048	5.5
2	MP3A	Z	17.404	5.5
3	MP3A	Mx	-.004	5.5
4	MP3A	X	-10.048	6.5
5	MP3A	Z	17.404	6.5
6	MP3A	Mx	-.004	6.5
7	MP3C	X	-10.048	5.5
8	MP3C	Z	17.404	5.5
9	MP3C	Mx	-.016	5.5
10	MP3C	X	-10.048	6.5
11	MP3C	Z	17.404	6.5
12	MP3C	Mx	-.016	6.5
13	MP3A	X	-10.048	5.5
14	MP3A	Z	17.404	5.5
15	MP3A	Mx	-.016	5.5
16	MP3A	X	-10.048	6.5
17	MP3A	Z	17.404	6.5
18	MP3A	Mx	-.016	6.5
19	MP3C	X	-10.048	5.5
20	MP3C	Z	17.404	5.5
21	MP3C	Mx	-.004	5.5
22	MP3C	X	-10.048	6.5
23	MP3C	Z	17.404	6.5
24	MP3C	Mx	-.004	6.5
25	MP4A	X	-34.366	2.62
26	MP4A	Z	59.523	2.62
27	MP4A	Mx	.034	2.62
28	MP4A	X	-34.366	4.55
29	MP4A	Z	59.523	4.55
30	MP4A	Mx	.034	4.55
31	MP4B	X	-14.155	2.62
32	MP4B	Z	24.518	2.62
33	MP4B	Mx	-.028	2.62
34	MP4B	X	-14.155	4.55
35	MP4B	Z	24.518	4.55
36	MP4B	Mx	-.028	4.55
37	MP4C	X	-34.366	2.62
38	MP4C	Z	59.523	2.62
39	MP4C	Mx	.034	2.62
40	MP4C	X	-34.366	4.55
41	MP4C	Z	59.523	4.55
42	MP4C	Mx	.034	4.55
43	MP3A	X	-81.76	1.33
44	MP3A	Z	141.612	1.33
45	MP3A	Mx	.164	1.33
46	MP3A	X	-81.76	5.83
47	MP3A	Z	141.612	5.83
48	MP3A	Mx	.164	5.83
49	MP3B	X	-71.301	1.33
50	MP3B	Z	123.496	1.33
51	MP3B	Mx	-.143	1.33
52	MP3B	X	-71.301	5.83
53	MP3B	Z	123.496	5.83
54	MP3B	Mx	-.143	5.83
55	MP3C	X	-81.76	1.33
56	MP3C	Z	141.612	1.33
57	MP3C	Mx	-.000848	1.33
58	MP3C	X	-81.76	5.83
59	MP3C	Z	141.612	5.83

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-0.00848	5.83
61	MP3A	X	-81.76	1.33
62	MP3A	Z	141.612	1.33
63	MP3A	Mx	-0.00847	1.33
64	MP3A	X	-81.76	5.83
65	MP3A	Z	141.612	5.83
66	MP3A	Mx	-0.00847	5.83
67	MP3B	X	-71.301	1.33
68	MP3B	Z	123.496	1.33
69	MP3B	Mx	-.143	1.33
70	MP3B	X	-71.301	5.83
71	MP3B	Z	123.496	5.83
72	MP3B	Mx	-.143	5.83
73	MP3C	X	-81.76	1.33
74	MP3C	Z	141.612	1.33
75	MP3C	Mx	.164	1.33
76	MP3C	X	-81.76	5.83
77	MP3C	Z	141.612	5.83
78	MP3C	Mx	.164	5.83
79	MP1A	X	-7.457	3.07
80	MP1A	Z	12.915	3.07
81	MP1A	Mx	.005	3.07
82	MP1A	X	-7.457	4.1
83	MP1A	Z	12.915	4.1
84	MP1A	Mx	.005	4.1
85	MP1B	X	-1.83	3.07
86	MP1B	Z	3.17	3.07
87	MP1B	Mx	-.002	3.07
88	MP1B	X	-1.83	4.1
89	MP1B	Z	3.17	4.1
90	MP1B	Mx	-.002	4.1
91	MP1C	X	-7.457	3.07
92	MP1C	Z	12.915	3.07
93	MP1C	Mx	.005	3.07
94	MP1C	X	-7.457	4.1
95	MP1C	Z	12.915	4.1
96	MP1C	Mx	.005	4.1
97	MP2A	X	-14.915	3.42
98	MP2A	Z	25.834	3.42
99	MP2A	Mx	-.012	3.42
100	MP2A	X	-14.915	3.42
101	MP2A	Z	25.834	3.42
102	MP2A	Mx	-.012	3.42
103	MP2B	X	-10.905	3.42
104	MP2B	Z	18.888	3.42
105	MP2B	Mx	.018	3.42
106	MP2B	X	-10.905	3.42
107	MP2B	Z	18.888	3.42
108	MP2B	Mx	.018	3.42
109	MP2C	X	-14.915	3.42
110	MP2C	Z	25.834	3.42
111	MP2C	Mx	-.012	3.42
112	MP2C	X	-14.915	3.42
113	MP2C	Z	25.834	3.42
114	MP2C	Mx	-.012	3.42
115	MP3A	X	-14.417	3.42
116	MP3A	Z	24.972	3.42
117	MP3A	Mx	-.012	3.42
118	MP3A	X	-14.417	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	24.972	3.42
120	MP3A	Mx	-.012	3.42
121	MP3B	X	-8.913	3.42
122	MP3B	Z	15.437	3.42
123	MP3B	Mx	.015	3.42
124	MP3B	X	-8.913	3.42
125	MP3B	Z	15.437	3.42
126	MP3B	Mx	.015	3.42
127	MP3C	X	-14.417	3.42
128	MP3C	Z	24.972	3.42
129	MP3C	Mx	-.012	3.42
130	MP3C	X	-14.417	3.42
131	MP3C	Z	24.972	3.42
132	MP3C	Mx	-.012	3.42
133	OVPB	X	-25.27	1.5
134	OVPB	Z	43.769	1.5
135	OVPB	Mx	-.042	1.5
136	OVPB	X	-25.27	1.5
137	OVPB	Z	43.769	1.5
138	OVPB	Mx	-.042	1.5
139	OVPC	X	-27.262	1.5
140	OVPC	Z	47.219	1.5
141	OVPC	Mx	.039	1.5
142	OVPC	X	-27.262	1.5
143	OVPC	Z	47.219	1.5
144	OVPC	Mx	.039	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-17.43	5.5
2	MP3A	Z	10.063	5.5
3	MP3A	Mx	-.014	5.5
4	MP3A	X	-17.43	6.5
5	MP3A	Z	10.063	6.5
6	MP3A	Mx	-.014	6.5
7	MP3C	X	-17.392	5.5
8	MP3C	Z	10.041	5.5
9	MP3C	Mx	-.007	5.5
10	MP3C	X	-17.392	6.5
11	MP3C	Z	10.041	6.5
12	MP3C	Mx	-.007	6.5
13	MP3A	X	-17.43	5.5
14	MP3A	Z	10.063	5.5
15	MP3A	Mx	-.021	5.5
16	MP3A	X	-17.43	6.5
17	MP3A	Z	10.063	6.5
18	MP3A	Mx	-.021	6.5
19	MP3C	X	-17.392	5.5
20	MP3C	Z	10.041	5.5
21	MP3C	Mx	.007	5.5
22	MP3C	X	-17.392	6.5
23	MP3C	Z	10.041	6.5
24	MP3C	Mx	.007	6.5
25	MP4A	X	-36.186	2.62
26	MP4A	Z	20.892	2.62
27	MP4A	Mx	.036	2.62
28	MP4A	X	-36.186	4.55
29	MP4A	Z	20.892	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	.036	4.55
31	MP4B	X	-36.186	2.62
32	MP4B	Z	20.892	2.62
33	MP4B	Mx	-.036	2.62
34	MP4B	X	-36.186	4.55
35	MP4B	Z	20.892	4.55
36	MP4B	Mx	-.036	4.55
37	MP4C	X	-71.192	2.62
38	MP4C	Z	41.103	2.62
39	MP4C	Mx	0	2.62
40	MP4C	X	-71.192	4.55
41	MP4C	Z	41.103	4.55
42	MP4C	Mx	0	4.55
43	MP3A	X	-129.535	1.33
44	MP3A	Z	74.787	1.33
45	MP3A	Mx	.173	1.33
46	MP3A	X	-129.535	5.83
47	MP3A	Z	74.787	5.83
48	MP3A	Mx	.173	5.83
49	MP3B	X	-129.535	1.33
50	MP3B	Z	74.787	1.33
51	MP3B	Mx	-.086	1.33
52	MP3B	X	-129.535	5.83
53	MP3B	Z	74.787	5.83
54	MP3B	Mx	-.086	5.83
55	MP3C	X	-147.651	1.33
56	MP3C	Z	85.246	1.33
57	MP3C	Mx	-.099	1.33
58	MP3C	X	-147.651	5.83
59	MP3C	Z	85.246	5.83
60	MP3C	Mx	-.099	5.83
61	MP3A	X	-129.535	1.33
62	MP3A	Z	74.787	1.33
63	MP3A	Mx	.086	1.33
64	MP3A	X	-129.535	5.83
65	MP3A	Z	74.787	5.83
66	MP3A	Mx	.086	5.83
67	MP3B	X	-129.535	1.33
68	MP3B	Z	74.787	1.33
69	MP3B	Mx	-.173	1.33
70	MP3B	X	-129.535	5.83
71	MP3B	Z	74.787	5.83
72	MP3B	Mx	-.173	5.83
73	MP3C	X	-147.651	1.33
74	MP3C	Z	85.246	1.33
75	MP3C	Mx	.099	1.33
76	MP3C	X	-147.651	5.83
77	MP3C	Z	85.246	5.83
78	MP3C	Mx	.099	5.83
79	MP1A	X	-6.418	3.07
80	MP1A	Z	3.706	3.07
81	MP1A	Mx	.004	3.07
82	MP1A	X	-6.418	4.1
83	MP1A	Z	3.706	4.1
84	MP1A	Mx	.004	4.1
85	MP1B	X	-6.418	3.07
86	MP1B	Z	3.706	3.07
87	MP1B	Mx	-.004	3.07
88	MP1B	X	-6.418	4.1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	3.706	4.1
90	MP1B	Mx	-.004	4.1
91	MP1C	X	-16.163	3.07
92	MP1C	Z	9.332	3.07
93	MP1C	Mx	0	3.07
94	MP1C	X	-16.163	4.1
95	MP1C	Z	9.332	4.1
96	MP1C	Mx	0	4.1
97	MP2A	X	-21.203	3.42
98	MP2A	Z	12.242	3.42
99	MP2A	Mx	-.018	3.42
100	MP2A	X	-21.203	3.42
101	MP2A	Z	12.242	3.42
102	MP2A	Mx	-.018	3.42
103	MP2B	X	-21.203	3.42
104	MP2B	Z	12.242	3.42
105	MP2B	Mx	.018	3.42
106	MP2B	X	-21.203	3.42
107	MP2B	Z	12.242	3.42
108	MP2B	Mx	.018	3.42
109	MP2C	X	-28.15	3.42
110	MP2C	Z	16.252	3.42
111	MP2C	Mx	0	3.42
112	MP2C	X	-28.15	3.42
113	MP2C	Z	16.252	3.42
114	MP2C	Mx	0	3.42
115	MP3A	X	-18.615	3.42
116	MP3A	Z	10.748	3.42
117	MP3A	Mx	-.016	3.42
118	MP3A	X	-18.615	3.42
119	MP3A	Z	10.748	3.42
120	MP3A	Mx	-.016	3.42
121	MP3B	X	-18.615	3.42
122	MP3B	Z	10.748	3.42
123	MP3B	Mx	.016	3.42
124	MP3B	X	-18.615	3.42
125	MP3B	Z	10.748	3.42
126	MP3B	Mx	.016	3.42
127	MP3C	X	-28.15	3.42
128	MP3C	Z	16.252	3.42
129	MP3C	Mx	0	3.42
130	MP3C	X	-28.15	3.42
131	MP3C	Z	16.252	3.42
132	MP3C	Mx	0	3.42
133	OVPB	X	-47.219	1.5
134	OVPB	Z	27.262	1.5
135	OVPB	Mx	-.039	1.5
136	OVPB	X	-47.219	1.5
137	OVPB	Z	27.262	1.5
138	OVPB	Mx	-.039	1.5
139	OVPC	X	-54.12	1.5
140	OVPC	Z	31.246	1.5
141	OVPC	Mx	.026	1.5
142	OVPC	X	-54.12	1.5
143	OVPC	Z	31.246	1.5
144	OVPC	Mx	.026	1.5

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-20.141	5.5
2	MP3A	Z	0	5.5
3	MP3A	Mx	-.02	5.5
4	MP3A	X	-20.141	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-.02	6.5
7	MP3C	X	-20.097	5.5
8	MP3C	Z	0	5.5
9	MP3C	Mx	.004	5.5
10	MP3C	X	-20.097	6.5
11	MP3C	Z	0	6.5
12	MP3C	Mx	.004	6.5
13	MP3A	X	-20.141	5.5
14	MP3A	Z	0	5.5
15	MP3A	Mx	-.02	5.5
16	MP3A	X	-20.141	6.5
17	MP3A	Z	0	6.5
18	MP3A	Mx	-.02	6.5
19	MP3C	X	-20.097	5.5
20	MP3C	Z	0	5.5
21	MP3C	Mx	.016	5.5
22	MP3C	X	-20.097	6.5
23	MP3C	Z	0	6.5
24	MP3C	Mx	.016	6.5
25	MP4A	X	-28.311	2.62
26	MP4A	Z	0	2.62
27	MP4A	Mx	.028	2.62
28	MP4A	X	-28.311	4.55
29	MP4A	Z	0	4.55
30	MP4A	Mx	.028	4.55
31	MP4B	X	-68.732	2.62
32	MP4B	Z	0	2.62
33	MP4B	Mx	-.034	2.62
34	MP4B	X	-68.732	4.55
35	MP4B	Z	0	4.55
36	MP4B	Mx	-.034	4.55
37	MP4C	X	-68.732	2.62
38	MP4C	Z	0	2.62
39	MP4C	Mx	-.034	2.62
40	MP4C	X	-68.732	4.55
41	MP4C	Z	0	4.55
42	MP4C	Mx	-.034	4.55
43	MP3A	X	-142.601	1.33
44	MP3A	Z	0	1.33
45	MP3A	Mx	.143	1.33
46	MP3A	X	-142.601	5.83
47	MP3A	Z	0	5.83
48	MP3A	Mx	.143	5.83
49	MP3B	X	-163.52	1.33
50	MP3B	Z	0	1.33
51	MP3B	Mx	.000847	1.33
52	MP3B	X	-163.52	5.83
53	MP3B	Z	0	5.83
54	MP3B	Mx	.000847	5.83
55	MP3C	X	-163.52	1.33
56	MP3C	Z	0	1.33
57	MP3C	Mx	-.164	1.33
58	MP3C	X	-163.52	5.83
59	MP3C	Z	0	5.83

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-.164	5.83
61	MP3A	X	-142.601	1.33
62	MP3A	Z	0	1.33
63	MP3A	Mx	.143	1.33
64	MP3A	X	-142.601	5.83
65	MP3A	Z	0	5.83
66	MP3A	Mx	.143	5.83
67	MP3B	X	-163.52	1.33
68	MP3B	Z	0	1.33
69	MP3B	Mx	-.164	1.33
70	MP3B	X	-163.52	5.83
71	MP3B	Z	0	5.83
72	MP3B	Mx	-.164	5.83
73	MP3C	X	-163.52	1.33
74	MP3C	Z	0	1.33
75	MP3C	Mx	.000847	1.33
76	MP3C	X	-163.52	5.83
77	MP3C	Z	0	5.83
78	MP3C	Mx	.000847	5.83
79	MP1A	X	-3.66	3.07
80	MP1A	Z	0	3.07
81	MP1A	Mx	.002	3.07
82	MP1A	X	-3.66	4.1
83	MP1A	Z	0	4.1
84	MP1A	Mx	.002	4.1
85	MP1B	X	-14.913	3.07
86	MP1B	Z	0	3.07
87	MP1B	Mx	-.005	3.07
88	MP1B	X	-14.913	4.1
89	MP1B	Z	0	4.1
90	MP1B	Mx	-.005	4.1
91	MP1C	X	-14.913	3.07
92	MP1C	Z	0	3.07
93	MP1C	Mx	-.005	3.07
94	MP1C	X	-14.913	4.1
95	MP1C	Z	0	4.1
96	MP1C	Mx	-.005	4.1
97	MP2A	X	-21.81	3.42
98	MP2A	Z	0	3.42
99	MP2A	Mx	-.018	3.42
100	MP2A	X	-21.81	3.42
101	MP2A	Z	0	3.42
102	MP2A	Mx	-.018	3.42
103	MP2B	X	-29.831	3.42
104	MP2B	Z	0	3.42
105	MP2B	Mx	.012	3.42
106	MP2B	X	-29.831	3.42
107	MP2B	Z	0	3.42
108	MP2B	Mx	.012	3.42
109	MP2C	X	-29.831	3.42
110	MP2C	Z	0	3.42
111	MP2C	Mx	.012	3.42
112	MP2C	X	-29.831	3.42
113	MP2C	Z	0	3.42
114	MP2C	Mx	.012	3.42
115	MP3A	X	-17.825	3.42
116	MP3A	Z	0	3.42
117	MP3A	Mx	-.015	3.42
118	MP3A	X	-17.825	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	0	3.42
120	MP3A	Mx	-.015	3.42
121	MP3B	X	-28.835	3.42
122	MP3B	Z	0	3.42
123	MP3B	Mx	.012	3.42
124	MP3B	X	-28.835	3.42
125	MP3B	Z	0	3.42
126	MP3B	Mx	.012	3.42
127	MP3C	X	-28.835	3.42
128	MP3C	Z	0	3.42
129	MP3C	Mx	.012	3.42
130	MP3C	X	-28.835	3.42
131	MP3C	Z	0	3.42
132	MP3C	Mx	.012	3.42
133	OVPB	X	-62.493	1.5
134	OVPB	Z	0	1.5
135	OVPB	Mx	-.026	1.5
136	OVPB	X	-62.493	1.5
137	OVPB	Z	0	1.5
138	OVPB	Mx	-.026	1.5
139	OVPC	X	-66.477	1.5
140	OVPC	Z	0	1.5
141	OVPC	Mx	0	1.5
142	OVPC	X	-66.477	1.5
143	OVPC	Z	0	1.5
144	OVPC	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-17.43	5.5
2	MP3A	Z	-10.063	5.5
3	MP3A	Mx	-.021	5.5
4	MP3A	X	-17.43	6.5
5	MP3A	Z	-10.063	6.5
6	MP3A	Mx	-.021	6.5
7	MP3C	X	-17.43	5.5
8	MP3C	Z	-10.063	5.5
9	MP3C	Mx	.014	5.5
10	MP3C	X	-17.43	6.5
11	MP3C	Z	-10.063	6.5
12	MP3C	Mx	.014	6.5
13	MP3A	X	-17.43	5.5
14	MP3A	Z	-10.063	5.5
15	MP3A	Mx	-.014	5.5
16	MP3A	X	-17.43	6.5
17	MP3A	Z	-10.063	6.5
18	MP3A	Mx	-.014	6.5
19	MP3C	X	-17.43	5.5
20	MP3C	Z	-10.063	5.5
21	MP3C	Mx	.021	5.5
22	MP3C	X	-17.43	6.5
23	MP3C	Z	-10.063	6.5
24	MP3C	Mx	.021	6.5
25	MP4A	X	-36.186	2.62
26	MP4A	Z	-20.892	2.62
27	MP4A	Mx	.036	2.62
28	MP4A	X	-36.186	4.55
29	MP4A	Z	-20.892	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	.036	4.55
31	MP4B	X	-71.192	2.62
32	MP4B	Z	-41.103	2.62
33	MP4B	Mx	0	2.62
34	MP4B	X	-71.192	4.55
35	MP4B	Z	-41.103	4.55
36	MP4B	Mx	0	4.55
37	MP4C	X	-36.186	2.62
38	MP4C	Z	-20.892	2.62
39	MP4C	Mx	-.036	2.62
40	MP4C	X	-36.186	4.55
41	MP4C	Z	-20.892	4.55
42	MP4C	Mx	-.036	4.55
43	MP3A	X	-129.535	1.33
44	MP3A	Z	-74.787	1.33
45	MP3A	Mx	.086	1.33
46	MP3A	X	-129.535	5.83
47	MP3A	Z	-74.787	5.83
48	MP3A	Mx	.086	5.83
49	MP3B	X	-147.651	1.33
50	MP3B	Z	-85.246	1.33
51	MP3B	Mx	.099	1.33
52	MP3B	X	-147.651	5.83
53	MP3B	Z	-85.246	5.83
54	MP3B	Mx	.099	5.83
55	MP3C	X	-129.535	1.33
56	MP3C	Z	-74.787	1.33
57	MP3C	Mx	-.173	1.33
58	MP3C	X	-129.535	5.83
59	MP3C	Z	-74.787	5.83
60	MP3C	Mx	-.173	5.83
61	MP3A	X	-129.535	1.33
62	MP3A	Z	-74.787	1.33
63	MP3A	Mx	.173	1.33
64	MP3A	X	-129.535	5.83
65	MP3A	Z	-74.787	5.83
66	MP3A	Mx	.173	5.83
67	MP3B	X	-147.651	1.33
68	MP3B	Z	-85.246	1.33
69	MP3B	Mx	-.099	1.33
70	MP3B	X	-147.651	5.83
71	MP3B	Z	-85.246	5.83
72	MP3B	Mx	-.099	5.83
73	MP3C	X	-129.535	1.33
74	MP3C	Z	-74.787	1.33
75	MP3C	Mx	-.086	1.33
76	MP3C	X	-129.535	5.83
77	MP3C	Z	-74.787	5.83
78	MP3C	Mx	-.086	5.83
79	MP1A	X	-6.418	3.07
80	MP1A	Z	-3.706	3.07
81	MP1A	Mx	.004	3.07
82	MP1A	X	-6.418	4.1
83	MP1A	Z	-3.706	4.1
84	MP1A	Mx	.004	4.1
85	MP1B	X	-16.163	3.07
86	MP1B	Z	-9.332	3.07
87	MP1B	Mx	0	3.07
88	MP1B	X	-16.163	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-9.332	4.1
90	MP1B	Mx	0	4.1
91	MP1C	X	-6.418	3.07
92	MP1C	Z	-3.706	3.07
93	MP1C	Mx	-.004	3.07
94	MP1C	X	-6.418	4.1
95	MP1C	Z	-3.706	4.1
96	MP1C	Mx	-.004	4.1
97	MP2A	X	-21.203	3.42
98	MP2A	Z	-12.242	3.42
99	MP2A	Mx	-.018	3.42
100	MP2A	X	-21.203	3.42
101	MP2A	Z	-12.242	3.42
102	MP2A	Mx	-.018	3.42
103	MP2B	X	-28.15	3.42
104	MP2B	Z	-16.252	3.42
105	MP2B	Mx	0	3.42
106	MP2B	X	-28.15	3.42
107	MP2B	Z	-16.252	3.42
108	MP2B	Mx	0	3.42
109	MP2C	X	-21.203	3.42
110	MP2C	Z	-12.242	3.42
111	MP2C	Mx	.018	3.42
112	MP2C	X	-21.203	3.42
113	MP2C	Z	-12.242	3.42
114	MP2C	Mx	.018	3.42
115	MP3A	X	-18.615	3.42
116	MP3A	Z	-10.748	3.42
117	MP3A	Mx	-.016	3.42
118	MP3A	X	-18.615	3.42
119	MP3A	Z	-10.748	3.42
120	MP3A	Mx	-.016	3.42
121	MP3B	X	-28.15	3.42
122	MP3B	Z	-16.252	3.42
123	MP3B	Mx	0	3.42
124	MP3B	X	-28.15	3.42
125	MP3B	Z	-16.252	3.42
126	MP3B	Mx	0	3.42
127	MP3C	X	-18.615	3.42
128	MP3C	Z	-10.748	3.42
129	MP3C	Mx	.016	3.42
130	MP3C	X	-18.615	3.42
131	MP3C	Z	-10.748	3.42
132	MP3C	Mx	.016	3.42
133	OVPB	X	-57.571	1.5
134	OVPB	Z	-33.239	1.5
135	OVPB	Mx	0	1.5
136	OVPB	X	-57.571	1.5
137	OVPB	Z	-33.239	1.5
138	OVPB	Mx	0	1.5
139	OVPC	X	-54.12	1.5
140	OVPC	Z	-31.246	1.5
141	OVPC	Mx	-.026	1.5
142	OVPC	X	-54.12	1.5
143	OVPC	Z	-31.246	1.5
144	OVPC	Mx	-.026	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-10.048	5.5
2	MP3A	Z	-17.404	5.5
3	MP3A	Mx	-.016	5.5
4	MP3A	X	-10.048	6.5
5	MP3A	Z	-17.404	6.5
6	MP3A	Mx	-.016	6.5
7	MP3C	X	-10.071	5.5
8	MP3C	Z	-17.443	5.5
9	MP3C	Mx	.02	5.5
10	MP3C	X	-10.071	6.5
11	MP3C	Z	-17.443	6.5
12	MP3C	Mx	.02	6.5
13	MP3A	X	-10.048	5.5
14	MP3A	Z	-17.404	5.5
15	MP3A	Mx	-.004	5.5
16	MP3A	X	-10.048	6.5
17	MP3A	Z	-17.404	6.5
18	MP3A	Mx	-.004	6.5
19	MP3C	X	-10.071	5.5
20	MP3C	Z	-17.443	5.5
21	MP3C	Mx	.02	5.5
22	MP3C	X	-10.071	6.5
23	MP3C	Z	-17.443	6.5
24	MP3C	Mx	.02	6.5
25	MP4A	X	-34.366	2.62
26	MP4A	Z	-59.523	2.62
27	MP4A	Mx	.034	2.62
28	MP4A	X	-34.366	4.55
29	MP4A	Z	-59.523	4.55
30	MP4A	Mx	.034	4.55
31	MP4B	X	-34.366	2.62
32	MP4B	Z	-59.523	2.62
33	MP4B	Mx	.034	2.62
34	MP4B	X	-34.366	4.55
35	MP4B	Z	-59.523	4.55
36	MP4B	Mx	.034	4.55
37	MP4C	X	-14.155	2.62
38	MP4C	Z	-24.518	2.62
39	MP4C	Mx	-.028	2.62
40	MP4C	X	-14.155	4.55
41	MP4C	Z	-24.518	4.55
42	MP4C	Mx	-.028	4.55
43	MP3A	X	-81.76	1.33
44	MP3A	Z	-141.612	1.33
45	MP3A	Mx	-.000847	1.33
46	MP3A	X	-81.76	5.83
47	MP3A	Z	-141.612	5.83
48	MP3A	Mx	-.000847	5.83
49	MP3B	X	-81.76	1.33
50	MP3B	Z	-141.612	1.33
51	MP3B	Mx	.164	1.33
52	MP3B	X	-81.76	5.83
53	MP3B	Z	-141.612	5.83
54	MP3B	Mx	.164	5.83
55	MP3C	X	-71.301	1.33
56	MP3C	Z	-123.496	1.33
57	MP3C	Mx	-.143	1.33
58	MP3C	X	-71.301	5.83
59	MP3C	Z	-123.496	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-.143	5.83
61	MP3A	X	-81.76	1.33
62	MP3A	Z	-141.612	1.33
63	MP3A	Mx	.164	1.33
64	MP3A	X	-81.76	5.83
65	MP3A	Z	-141.612	5.83
66	MP3A	Mx	.164	5.83
67	MP3B	X	-81.76	1.33
68	MP3B	Z	-141.612	1.33
69	MP3B	Mx	-.000848	1.33
70	MP3B	X	-81.76	5.83
71	MP3B	Z	-141.612	5.83
72	MP3B	Mx	-.000848	5.83
73	MP3C	X	-71.301	1.33
74	MP3C	Z	-123.496	1.33
75	MP3C	Mx	-.143	1.33
76	MP3C	X	-71.301	5.83
77	MP3C	Z	-123.496	5.83
78	MP3C	Mx	-.143	5.83
79	MP1A	X	-7.457	3.07
80	MP1A	Z	-12.915	3.07
81	MP1A	Mx	.005	3.07
82	MP1A	X	-7.457	4.1
83	MP1A	Z	-12.915	4.1
84	MP1A	Mx	.005	4.1
85	MP1B	X	-7.457	3.07
86	MP1B	Z	-12.915	3.07
87	MP1B	Mx	.005	3.07
88	MP1B	X	-7.457	4.1
89	MP1B	Z	-12.915	4.1
90	MP1B	Mx	.005	4.1
91	MP1C	X	-1.83	3.07
92	MP1C	Z	-3.17	3.07
93	MP1C	Mx	-.002	3.07
94	MP1C	X	-1.83	4.1
95	MP1C	Z	-3.17	4.1
96	MP1C	Mx	-.002	4.1
97	MP2A	X	-14.915	3.42
98	MP2A	Z	-25.834	3.42
99	MP2A	Mx	-.012	3.42
100	MP2A	X	-14.915	3.42
101	MP2A	Z	-25.834	3.42
102	MP2A	Mx	-.012	3.42
103	MP2B	X	-14.915	3.42
104	MP2B	Z	-25.834	3.42
105	MP2B	Mx	-.012	3.42
106	MP2B	X	-14.915	3.42
107	MP2B	Z	-25.834	3.42
108	MP2B	Mx	-.012	3.42
109	MP2C	X	-10.905	3.42
110	MP2C	Z	-18.888	3.42
111	MP2C	Mx	.018	3.42
112	MP2C	X	-10.905	3.42
113	MP2C	Z	-18.888	3.42
114	MP2C	Mx	.018	3.42
115	MP3A	X	-14.417	3.42
116	MP3A	Z	-24.972	3.42
117	MP3A	Mx	-.012	3.42
118	MP3A	X	-14.417	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	-24.972	3.42
120	MP3A	Mx	-.012	3.42
121	MP3B	X	-14.417	3.42
122	MP3B	Z	-24.972	3.42
123	MP3B	Mx	-.012	3.42
124	MP3B	X	-14.417	3.42
125	MP3B	Z	-24.972	3.42
126	MP3B	Mx	-.012	3.42
127	MP3C	X	-8.913	3.42
128	MP3C	Z	-15.437	3.42
129	MP3C	Mx	.015	3.42
130	MP3C	X	-8.913	3.42
131	MP3C	Z	-15.437	3.42
132	MP3C	Mx	.015	3.42
133	OVPB	X	-31.246	1.5
134	OVPB	Z	-54.12	1.5
135	OVPB	Mx	.026	1.5
136	OVPB	X	-31.246	1.5
137	OVPB	Z	-54.12	1.5
138	OVPB	Mx	.026	1.5
139	OVPC	X	-27.262	1.5
140	OVPC	Z	-47.219	1.5
141	OVPC	Mx	-.039	1.5
142	OVPC	X	-27.262	1.5
143	OVPC	Z	-47.219	1.5
144	OVPC	Mx	-.039	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	5.5
2	MP3A	Z	-1.676	5.5
3	MP3A	Mx	-.000559	5.5
4	MP3A	X	0	6.5
5	MP3A	Z	-1.676	6.5
6	MP3A	Mx	-.000559	6.5
7	MP3C	X	0	5.5
8	MP3C	Z	-3.762	5.5
9	MP3C	Mx	.004	5.5
10	MP3C	X	0	6.5
11	MP3C	Z	-3.762	6.5
12	MP3C	Mx	.004	6.5
13	MP3A	X	0	5.5
14	MP3A	Z	-1.676	5.5
15	MP3A	Mx	.000559	5.5
16	MP3A	X	0	6.5
17	MP3A	Z	-1.676	6.5
18	MP3A	Mx	.000559	6.5
19	MP3C	X	0	5.5
20	MP3C	Z	-3.762	5.5
21	MP3C	Mx	.003	5.5
22	MP3C	X	0	6.5
23	MP3C	Z	-3.762	6.5
24	MP3C	Mx	.003	6.5
25	MP4A	X	0	2.62
26	MP4A	Z	-19.313	2.62
27	MP4A	Mx	0	2.62
28	MP4A	X	0	4.55
29	MP4A	Z	-19.313	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	0	4.55
31	MP4B	X	0	2.62
32	MP4B	Z	-10.994	2.62
33	MP4B	Mx	.01	2.62
34	MP4B	X	0	4.55
35	MP4B	Z	-10.994	4.55
36	MP4B	Mx	.01	4.55
37	MP4C	X	0	2.62
38	MP4C	Z	-10.994	2.62
39	MP4C	Mx	-.01	2.62
40	MP4C	X	0	4.55
41	MP4C	Z	-10.994	4.55
42	MP4C	Mx	-.01	4.55
43	MP3A	X	0	1.33
44	MP3A	Z	-32.631	1.33
45	MP3A	Mx	-.019	1.33
46	MP3A	X	0	5.83
47	MP3A	Z	-32.631	5.83
48	MP3A	Mx	-.019	5.83
49	MP3B	X	0	1.33
50	MP3B	Z	-28.923	1.33
51	MP3B	Mx	.033	1.33
52	MP3B	X	0	5.83
53	MP3B	Z	-28.923	5.83
54	MP3B	Mx	.033	5.83
55	MP3C	X	0	1.33
56	MP3C	Z	-28.923	1.33
57	MP3C	Mx	-.017	1.33
58	MP3C	X	0	5.83
59	MP3C	Z	-28.923	5.83
60	MP3C	Mx	-.017	5.83
61	MP3A	X	0	1.33
62	MP3A	Z	-32.631	1.33
63	MP3A	Mx	.019	1.33
64	MP3A	X	0	5.83
65	MP3A	Z	-32.631	5.83
66	MP3A	Mx	.019	5.83
67	MP3B	X	0	1.33
68	MP3B	Z	-28.923	1.33
69	MP3B	Mx	.017	1.33
70	MP3B	X	0	5.83
71	MP3B	Z	-28.923	5.83
72	MP3B	Mx	.017	5.83
73	MP3C	X	0	1.33
74	MP3C	Z	-28.923	1.33
75	MP3C	Mx	-.033	1.33
76	MP3C	X	0	5.83
77	MP3C	Z	-28.923	5.83
78	MP3C	Mx	-.033	5.83
79	MP1A	X	0	3.07
80	MP1A	Z	-4.191	3.07
81	MP1A	Mx	0	3.07
82	MP1A	X	0	4.1
83	MP1A	Z	-4.191	4.1
84	MP1A	Mx	0	4.1
85	MP1B	X	0	3.07
86	MP1B	Z	-1.969	3.07
87	MP1B	Mx	.001	3.07
88	MP1B	X	0	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-1.969	4.1
90	MP1B	Mx	.001	4.1
91	MP1C	X	0	3.07
92	MP1C	Z	-1.969	3.07
93	MP1C	Mx	-.001	3.07
94	MP1C	X	0	4.1
95	MP1C	Z	-1.969	4.1
96	MP1C	Mx	-.001	4.1
97	MP2A	X	0	3.42
98	MP2A	Z	-8.135	3.42
99	MP2A	Mx	0	3.42
100	MP2A	X	0	3.42
101	MP2A	Z	-8.135	3.42
102	MP2A	Mx	0	3.42
103	MP2B	X	0	3.42
104	MP2B	Z	-6.277	3.42
105	MP2B	Mx	-.005	3.42
106	MP2B	X	0	3.42
107	MP2B	Z	-6.277	3.42
108	MP2B	Mx	-.005	3.42
109	MP2C	X	0	3.42
110	MP2C	Z	-6.277	3.42
111	MP2C	Mx	.005	3.42
112	MP2C	X	0	3.42
113	MP2C	Z	-6.277	3.42
114	MP2C	Mx	.005	3.42
115	MP3A	X	0	3.42
116	MP3A	Z	-8.135	3.42
117	MP3A	Mx	0	3.42
118	MP3A	X	0	3.42
119	MP3A	Z	-8.135	3.42
120	MP3A	Mx	0	3.42
121	MP3B	X	0	3.42
122	MP3B	Z	-5.57	3.42
123	MP3B	Mx	-.004	3.42
124	MP3B	X	0	3.42
125	MP3B	Z	-5.57	3.42
126	MP3B	Mx	-.004	3.42
127	MP3C	X	0	3.42
128	MP3C	Z	-5.57	3.42
129	MP3C	Mx	.004	3.42
130	MP3C	X	0	3.42
131	MP3C	Z	-5.57	3.42
132	MP3C	Mx	.004	3.42
133	OVPB	X	0	1.5
134	OVPB	Z	-13.989	1.5
135	OVPB	Mx	.01	1.5
136	OVPB	X	0	1.5
137	OVPB	Z	-13.989	1.5
138	OVPB	Mx	.01	1.5
139	OVPC	X	0	1.5
140	OVPC	Z	-13.077	1.5
141	OVPC	Mx	-.011	1.5
142	OVPC	X	0	1.5
143	OVPC	Z	-13.077	1.5
144	OVPC	Mx	-.011	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	1.186	5.5
2	MP3A	Z	-2.054	5.5
3	MP3A	Mx	.000501	5.5
4	MP3A	X	1.186	6.5
5	MP3A	Z	-2.054	6.5
6	MP3A	Mx	.000501	6.5
7	MP3C	X	1.186	5.5
8	MP3C	Z	-2.054	5.5
9	MP3C	Mx	.002	5.5
10	MP3C	X	1.186	6.5
11	MP3C	Z	-2.054	6.5
12	MP3C	Mx	.002	6.5
13	MP3A	X	1.186	5.5
14	MP3A	Z	-2.054	5.5
15	MP3A	Mx	.002	5.5
16	MP3A	X	1.186	6.5
17	MP3A	Z	-2.054	6.5
18	MP3A	Mx	.002	6.5
19	MP3C	X	1.186	5.5
20	MP3C	Z	-2.054	5.5
21	MP3C	Mx	.000501	5.5
22	MP3C	X	1.186	6.5
23	MP3C	Z	-2.054	6.5
24	MP3C	Mx	.000501	6.5
25	MP4A	X	8.27	2.62
26	MP4A	Z	-14.324	2.62
27	MP4A	Mx	-.008	2.62
28	MP4A	X	8.27	4.55
29	MP4A	Z	-14.324	4.55
30	MP4A	Mx	-.008	4.55
31	MP4B	X	4.111	2.62
32	MP4B	Z	-7.12	2.62
33	MP4B	Mx	.008	2.62
34	MP4B	X	4.111	4.55
35	MP4B	Z	-7.12	4.55
36	MP4B	Mx	.008	4.55
37	MP4C	X	8.27	2.62
38	MP4C	Z	-14.324	2.62
39	MP4C	Mx	-.008	2.62
40	MP4C	X	8.27	4.55
41	MP4C	Z	-14.324	4.55
42	MP4C	Mx	-.008	4.55
43	MP3A	X	15.697	1.33
44	MP3A	Z	-27.189	1.33
45	MP3A	Mx	-.032	1.33
46	MP3A	X	15.697	5.83
47	MP3A	Z	-27.189	5.83
48	MP3A	Mx	-.032	5.83
49	MP3B	X	13.843	1.33
50	MP3B	Z	-23.978	1.33
51	MP3B	Mx	.028	1.33
52	MP3B	X	13.843	5.83
53	MP3B	Z	-23.978	5.83
54	MP3B	Mx	.028	5.83
55	MP3C	X	15.697	1.33
56	MP3C	Z	-27.189	1.33
57	MP3C	Mx	.000162	1.33
58	MP3C	X	15.697	5.83
59	MP3C	Z	-27.189	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	.000162	5.83
61	MP3A	X	15.697	1.33
62	MP3A	Z	-27.189	1.33
63	MP3A	Mx	.000163	1.33
64	MP3A	X	15.697	5.83
65	MP3A	Z	-27.189	5.83
66	MP3A	Mx	.000163	5.83
67	MP3B	X	13.843	1.33
68	MP3B	Z	-23.978	1.33
69	MP3B	Mx	.028	1.33
70	MP3B	X	13.843	5.83
71	MP3B	Z	-23.978	5.83
72	MP3B	Mx	.028	5.83
73	MP3C	X	15.697	1.33
74	MP3C	Z	-27.189	1.33
75	MP3C	Mx	-.032	1.33
76	MP3C	X	15.697	5.83
77	MP3C	Z	-27.189	5.83
78	MP3C	Mx	-.032	5.83
79	MP1A	X	1.725	3.07
80	MP1A	Z	-2.988	3.07
81	MP1A	Mx	-.001	3.07
82	MP1A	X	1.725	4.1
83	MP1A	Z	-2.988	4.1
84	MP1A	Mx	-.001	4.1
85	MP1B	X	.614	3.07
86	MP1B	Z	-1.064	3.07
87	MP1B	Mx	.000819	3.07
88	MP1B	X	.614	4.1
89	MP1B	Z	-1.064	4.1
90	MP1B	Mx	.000819	4.1
91	MP1C	X	1.725	3.07
92	MP1C	Z	-2.988	3.07
93	MP1C	Mx	-.001	3.07
94	MP1C	X	1.725	4.1
95	MP1C	Z	-2.988	4.1
96	MP1C	Mx	-.001	4.1
97	MP2A	X	3.758	3.42
98	MP2A	Z	-6.509	3.42
99	MP2A	Mx	.003	3.42
100	MP2A	X	3.758	3.42
101	MP2A	Z	-6.509	3.42
102	MP2A	Mx	.003	3.42
103	MP2B	X	2.829	3.42
104	MP2B	Z	-4.899	3.42
105	MP2B	Mx	-.005	3.42
106	MP2B	X	2.829	3.42
107	MP2B	Z	-4.899	3.42
108	MP2B	Mx	-.005	3.42
109	MP2C	X	3.758	3.42
110	MP2C	Z	-6.509	3.42
111	MP2C	Mx	.003	3.42
112	MP2C	X	3.758	3.42
113	MP2C	Z	-6.509	3.42
114	MP2C	Mx	.003	3.42
115	MP3A	X	3.64	3.42
116	MP3A	Z	-6.305	3.42
117	MP3A	Mx	.003	3.42
118	MP3A	X	3.64	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	-6.305	3.42
120	MP3A	Mx	.003	3.42
121	MP3B	X	2.358	3.42
122	MP3B	Z	-4.084	3.42
123	MP3B	Mx	-.004	3.42
124	MP3B	X	2.358	3.42
125	MP3B	Z	-4.084	3.42
126	MP3B	Mx	-.004	3.42
127	MP3C	X	3.64	3.42
128	MP3C	Z	-6.305	3.42
129	MP3C	Mx	.003	3.42
130	MP3C	X	3.64	3.42
131	MP3C	Z	-6.305	3.42
132	MP3C	Mx	.003	3.42
133	OVPB	X	6.538	1.5
134	OVPB	Z	-11.325	1.5
135	OVPB	Mx	.011	1.5
136	OVPB	X	6.538	1.5
137	OVPB	Z	-11.325	1.5
138	OVPB	Mx	.011	1.5
139	OVPC	X	6.994	1.5
140	OVPC	Z	-12.115	1.5
141	OVPC	Mx	-.01	1.5
142	OVPC	X	6.994	1.5
143	OVPC	Z	-12.115	1.5
144	OVPC	Mx	-.01	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	3.258	5.5
2	MP3A	Z	-1.881	5.5
3	MP3A	Mx	.003	5.5
4	MP3A	X	3.258	6.5
5	MP3A	Z	-1.881	6.5
6	MP3A	Mx	.003	6.5
7	MP3C	X	1.452	5.5
8	MP3C	Z	-.838	5.5
9	MP3C	Mx	.000559	5.5
10	MP3C	X	1.452	6.5
11	MP3C	Z	-.838	6.5
12	MP3C	Mx	.000559	6.5
13	MP3A	X	3.258	5.5
14	MP3A	Z	-1.881	5.5
15	MP3A	Mx	.004	5.5
16	MP3A	X	3.258	6.5
17	MP3A	Z	-1.881	6.5
18	MP3A	Mx	.004	6.5
19	MP3C	X	1.452	5.5
20	MP3C	Z	-.838	5.5
21	MP3C	Mx	-.000559	5.5
22	MP3C	X	1.452	6.5
23	MP3C	Z	-.838	6.5
24	MP3C	Mx	-.000559	6.5
25	MP4A	X	9.521	2.62
26	MP4A	Z	-5.497	2.62
27	MP4A	Mx	-.01	2.62
28	MP4A	X	9.521	4.55
29	MP4A	Z	-5.497	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	-.01	4.55
31	MP4B	X	9.521	2.62
32	MP4B	Z	-5.497	2.62
33	MP4B	Mx	.01	2.62
34	MP4B	X	9.521	4.55
35	MP4B	Z	-5.497	4.55
36	MP4B	Mx	.01	4.55
37	MP4C	X	16.726	2.62
38	MP4C	Z	-9.657	2.62
39	MP4C	Mx	0	2.62
40	MP4C	X	16.726	4.55
41	MP4C	Z	-9.657	4.55
42	MP4C	Mx	0	4.55
43	MP3A	X	25.048	1.33
44	MP3A	Z	-14.461	1.33
45	MP3A	Mx	-.033	1.33
46	MP3A	X	25.048	5.83
47	MP3A	Z	-14.461	5.83
48	MP3A	Mx	-.033	5.83
49	MP3B	X	25.048	1.33
50	MP3B	Z	-14.461	1.33
51	MP3B	Mx	.017	1.33
52	MP3B	X	25.048	5.83
53	MP3B	Z	-14.461	5.83
54	MP3B	Mx	.017	5.83
55	MP3C	X	28.259	1.33
56	MP3C	Z	-16.315	1.33
57	MP3C	Mx	.019	1.33
58	MP3C	X	28.259	5.83
59	MP3C	Z	-16.315	5.83
60	MP3C	Mx	.019	5.83
61	MP3A	X	25.048	1.33
62	MP3A	Z	-14.461	1.33
63	MP3A	Mx	-.017	1.33
64	MP3A	X	25.048	5.83
65	MP3A	Z	-14.461	5.83
66	MP3A	Mx	-.017	5.83
67	MP3B	X	25.048	1.33
68	MP3B	Z	-14.461	1.33
69	MP3B	Mx	.033	1.33
70	MP3B	X	25.048	5.83
71	MP3B	Z	-14.461	5.83
72	MP3B	Mx	.033	5.83
73	MP3C	X	28.259	1.33
74	MP3C	Z	-16.315	1.33
75	MP3C	Mx	-.019	1.33
76	MP3C	X	28.259	5.83
77	MP3C	Z	-16.315	5.83
78	MP3C	Mx	-.019	5.83
79	MP1A	X	1.705	3.07
80	MP1A	Z	-.985	3.07
81	MP1A	Mx	-.001	3.07
82	MP1A	X	1.705	4.1
83	MP1A	Z	-.985	4.1
84	MP1A	Mx	-.001	4.1
85	MP1B	X	1.705	3.07
86	MP1B	Z	-.985	3.07
87	MP1B	Mx	.001	3.07
88	MP1B	X	1.705	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-.985	4.1
90	MP1B	Mx	.001	4.1
91	MP1C	X	3.629	3.07
92	MP1C	Z	-2.095	3.07
93	MP1C	Mx	0	3.07
94	MP1C	X	3.629	4.1
95	MP1C	Z	-2.095	4.1
96	MP1C	Mx	0	4.1
97	MP2A	X	5.436	3.42
98	MP2A	Z	-3.138	3.42
99	MP2A	Mx	.005	3.42
100	MP2A	X	5.436	3.42
101	MP2A	Z	-3.138	3.42
102	MP2A	Mx	.005	3.42
103	MP2B	X	5.436	3.42
104	MP2B	Z	-3.138	3.42
105	MP2B	Mx	-.005	3.42
106	MP2B	X	5.436	3.42
107	MP2B	Z	-3.138	3.42
108	MP2B	Mx	-.005	3.42
109	MP2C	X	7.045	3.42
110	MP2C	Z	-4.068	3.42
111	MP2C	Mx	0	3.42
112	MP2C	X	7.045	3.42
113	MP2C	Z	-4.068	3.42
114	MP2C	Mx	0	3.42
115	MP3A	X	4.824	3.42
116	MP3A	Z	-2.785	3.42
117	MP3A	Mx	.004	3.42
118	MP3A	X	4.824	3.42
119	MP3A	Z	-2.785	3.42
120	MP3A	Mx	.004	3.42
121	MP3B	X	4.824	3.42
122	MP3B	Z	-2.785	3.42
123	MP3B	Mx	-.004	3.42
124	MP3B	X	4.824	3.42
125	MP3B	Z	-2.785	3.42
126	MP3B	Mx	-.004	3.42
127	MP3C	X	7.045	3.42
128	MP3C	Z	-4.068	3.42
129	MP3C	Mx	0	3.42
130	MP3C	X	7.045	3.42
131	MP3C	Z	-4.068	3.42
132	MP3C	Mx	0	3.42
133	OVPB	X	12.115	1.5
134	OVPB	Z	-6.994	1.5
135	OVPB	Mx	.01	1.5
136	OVPB	X	12.115	1.5
137	OVPB	Z	-6.994	1.5
138	OVPB	Mx	.01	1.5
139	OVPC	X	13.695	1.5
140	OVPC	Z	-7.907	1.5
141	OVPC	Mx	-.007	1.5
142	OVPC	X	13.695	1.5
143	OVPC	Z	-7.907	1.5
144	OVPC	Mx	-.007	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	4.457	5.5
2	MP3A	Z	0	5.5
3	MP3A	Mx	.004	5.5
4	MP3A	X	4.457	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	.004	6.5
7	MP3C	X	2.372	5.5
8	MP3C	Z	0	5.5
9	MP3C	Mx	-.000501	5.5
10	MP3C	X	2.372	6.5
11	MP3C	Z	0	6.5
12	MP3C	Mx	-.000501	6.5
13	MP3A	X	4.457	5.5
14	MP3A	Z	0	5.5
15	MP3A	Mx	.004	5.5
16	MP3A	X	4.457	6.5
17	MP3A	Z	0	6.5
18	MP3A	Mx	.004	6.5
19	MP3C	X	2.372	5.5
20	MP3C	Z	0	5.5
21	MP3C	Mx	-.002	5.5
22	MP3C	X	2.372	6.5
23	MP3C	Z	0	6.5
24	MP3C	Mx	-.002	6.5
25	MP4A	X	8.221	2.62
26	MP4A	Z	0	2.62
27	MP4A	Mx	-.008	2.62
28	MP4A	X	8.221	4.55
29	MP4A	Z	0	4.55
30	MP4A	Mx	-.008	4.55
31	MP4B	X	16.54	2.62
32	MP4B	Z	0	2.62
33	MP4B	Mx	.008	2.62
34	MP4B	X	16.54	4.55
35	MP4B	Z	0	4.55
36	MP4B	Mx	.008	4.55
37	MP4C	X	16.54	2.62
38	MP4C	Z	0	2.62
39	MP4C	Mx	.008	2.62
40	MP4C	X	16.54	4.55
41	MP4C	Z	0	4.55
42	MP4C	Mx	.008	4.55
43	MP3A	X	27.687	1.33
44	MP3A	Z	0	1.33
45	MP3A	Mx	-.028	1.33
46	MP3A	X	27.687	5.83
47	MP3A	Z	0	5.83
48	MP3A	Mx	-.028	5.83
49	MP3B	X	31.395	1.33
50	MP3B	Z	0	1.33
51	MP3B	Mx	-.000163	1.33
52	MP3B	X	31.395	5.83
53	MP3B	Z	0	5.83
54	MP3B	Mx	-.000163	5.83
55	MP3C	X	31.395	1.33
56	MP3C	Z	0	1.33
57	MP3C	Mx	.032	1.33
58	MP3C	X	31.395	5.83
59	MP3C	Z	0	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	.032	5.83
61	MP3A	X	27.687	1.33
62	MP3A	Z	0	1.33
63	MP3A	Mx	-.028	1.33
64	MP3A	X	27.687	5.83
65	MP3A	Z	0	5.83
66	MP3A	Mx	-.028	5.83
67	MP3B	X	31.395	1.33
68	MP3B	Z	0	1.33
69	MP3B	Mx	.032	1.33
70	MP3B	X	31.395	5.83
71	MP3B	Z	0	5.83
72	MP3B	Mx	.032	5.83
73	MP3C	X	31.395	1.33
74	MP3C	Z	0	1.33
75	MP3C	Mx	-.000163	1.33
76	MP3C	X	31.395	5.83
77	MP3C	Z	0	5.83
78	MP3C	Mx	-.000163	5.83
79	MP1A	X	1.229	3.07
80	MP1A	Z	0	3.07
81	MP1A	Mx	-.000819	3.07
82	MP1A	X	1.229	4.1
83	MP1A	Z	0	4.1
84	MP1A	Mx	-.000819	4.1
85	MP1B	X	3.45	3.07
86	MP1B	Z	0	3.07
87	MP1B	Mx	.001	3.07
88	MP1B	X	3.45	4.1
89	MP1B	Z	0	4.1
90	MP1B	Mx	.001	4.1
91	MP1C	X	3.45	3.07
92	MP1C	Z	0	3.07
93	MP1C	Mx	.001	3.07
94	MP1C	X	3.45	4.1
95	MP1C	Z	0	4.1
96	MP1C	Mx	.001	4.1
97	MP2A	X	5.657	3.42
98	MP2A	Z	0	3.42
99	MP2A	Mx	.005	3.42
100	MP2A	X	5.657	3.42
101	MP2A	Z	0	3.42
102	MP2A	Mx	.005	3.42
103	MP2B	X	7.516	3.42
104	MP2B	Z	0	3.42
105	MP2B	Mx	-.003	3.42
106	MP2B	X	7.516	3.42
107	MP2B	Z	0	3.42
108	MP2B	Mx	-.003	3.42
109	MP2C	X	7.516	3.42
110	MP2C	Z	0	3.42
111	MP2C	Mx	-.003	3.42
112	MP2C	X	7.516	3.42
113	MP2C	Z	0	3.42
114	MP2C	Mx	-.003	3.42
115	MP3A	X	4.715	3.42
116	MP3A	Z	0	3.42
117	MP3A	Mx	.004	3.42
118	MP3A	X	4.715	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	0	3.42
120	MP3A	Mx	.004	3.42
121	MP3B	X	7.28	3.42
122	MP3B	Z	0	3.42
123	MP3B	Mx	-.003	3.42
124	MP3B	X	7.28	3.42
125	MP3B	Z	0	3.42
126	MP3B	Mx	-.003	3.42
127	MP3C	X	7.28	3.42
128	MP3C	Z	0	3.42
129	MP3C	Mx	-.003	3.42
130	MP3C	X	7.28	3.42
131	MP3C	Z	0	3.42
132	MP3C	Mx	-.003	3.42
133	OVPB	X	15.813	1.5
134	OVPB	Z	0	1.5
135	OVPB	Mx	.007	1.5
136	OVPB	X	15.813	1.5
137	OVPB	Z	0	1.5
138	OVPB	Mx	.007	1.5
139	OVPC	X	16.725	1.5
140	OVPC	Z	0	1.5
141	OVPC	Mx	0	1.5
142	OVPC	X	16.725	1.5
143	OVPC	Z	0	1.5
144	OVPC	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	3.258	5.5
2	MP3A	Z	1.881	5.5
3	MP3A	Mx	.004	5.5
4	MP3A	X	3.258	6.5
5	MP3A	Z	1.881	6.5
6	MP3A	Mx	.004	6.5
7	MP3C	X	3.258	5.5
8	MP3C	Z	1.881	5.5
9	MP3C	Mx	-.003	5.5
10	MP3C	X	3.258	6.5
11	MP3C	Z	1.881	6.5
12	MP3C	Mx	-.003	6.5
13	MP3A	X	3.258	5.5
14	MP3A	Z	1.881	5.5
15	MP3A	Mx	.003	5.5
16	MP3A	X	3.258	6.5
17	MP3A	Z	1.881	6.5
18	MP3A	Mx	.003	6.5
19	MP3C	X	3.258	5.5
20	MP3C	Z	1.881	5.5
21	MP3C	Mx	-.004	5.5
22	MP3C	X	3.258	6.5
23	MP3C	Z	1.881	6.5
24	MP3C	Mx	-.004	6.5
25	MP4A	X	9.521	2.62
26	MP4A	Z	5.497	2.62
27	MP4A	Mx	-.01	2.62
28	MP4A	X	9.521	4.55
29	MP4A	Z	5.497	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	-.01	4.55
31	MP4B	X	16.726	2.62
32	MP4B	Z	9.657	2.62
33	MP4B	Mx	0	2.62
34	MP4B	X	16.726	4.55
35	MP4B	Z	9.657	4.55
36	MP4B	Mx	0	4.55
37	MP4C	X	9.521	2.62
38	MP4C	Z	5.497	2.62
39	MP4C	Mx	.01	2.62
40	MP4C	X	9.521	4.55
41	MP4C	Z	5.497	4.55
42	MP4C	Mx	.01	4.55
43	MP3A	X	25.048	1.33
44	MP3A	Z	14.461	1.33
45	MP3A	Mx	-.017	1.33
46	MP3A	X	25.048	5.83
47	MP3A	Z	14.461	5.83
48	MP3A	Mx	-.017	5.83
49	MP3B	X	28.259	1.33
50	MP3B	Z	16.315	1.33
51	MP3B	Mx	-.019	1.33
52	MP3B	X	28.259	5.83
53	MP3B	Z	16.315	5.83
54	MP3B	Mx	-.019	5.83
55	MP3C	X	25.048	1.33
56	MP3C	Z	14.461	1.33
57	MP3C	Mx	.033	1.33
58	MP3C	X	25.048	5.83
59	MP3C	Z	14.461	5.83
60	MP3C	Mx	.033	5.83
61	MP3A	X	25.048	1.33
62	MP3A	Z	14.461	1.33
63	MP3A	Mx	-.033	1.33
64	MP3A	X	25.048	5.83
65	MP3A	Z	14.461	5.83
66	MP3A	Mx	-.033	5.83
67	MP3B	X	28.259	1.33
68	MP3B	Z	16.315	1.33
69	MP3B	Mx	.019	1.33
70	MP3B	X	28.259	5.83
71	MP3B	Z	16.315	5.83
72	MP3B	Mx	.019	5.83
73	MP3C	X	25.048	1.33
74	MP3C	Z	14.461	1.33
75	MP3C	Mx	.017	1.33
76	MP3C	X	25.048	5.83
77	MP3C	Z	14.461	5.83
78	MP3C	Mx	.017	5.83
79	MP1A	X	1.705	3.07
80	MP1A	Z	.985	3.07
81	MP1A	Mx	-.001	3.07
82	MP1A	X	1.705	4.1
83	MP1A	Z	.985	4.1
84	MP1A	Mx	-.001	4.1
85	MP1B	X	3.629	3.07
86	MP1B	Z	2.095	3.07
87	MP1B	Mx	0	3.07
88	MP1B	X	3.629	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	2.095	4.1
90	MP1B	Mx	0	4.1
91	MP1C	X	1.705	3.07
92	MP1C	Z	.985	3.07
93	MP1C	Mx	.001	3.07
94	MP1C	X	1.705	4.1
95	MP1C	Z	.985	4.1
96	MP1C	Mx	.001	4.1
97	MP2A	X	5.436	3.42
98	MP2A	Z	3.138	3.42
99	MP2A	Mx	.005	3.42
100	MP2A	X	5.436	3.42
101	MP2A	Z	3.138	3.42
102	MP2A	Mx	.005	3.42
103	MP2B	X	7.045	3.42
104	MP2B	Z	4.068	3.42
105	MP2B	Mx	0	3.42
106	MP2B	X	7.045	3.42
107	MP2B	Z	4.068	3.42
108	MP2B	Mx	0	3.42
109	MP2C	X	5.436	3.42
110	MP2C	Z	3.138	3.42
111	MP2C	Mx	-.005	3.42
112	MP2C	X	5.436	3.42
113	MP2C	Z	3.138	3.42
114	MP2C	Mx	-.005	3.42
115	MP3A	X	4.824	3.42
116	MP3A	Z	2.785	3.42
117	MP3A	Mx	.004	3.42
118	MP3A	X	4.824	3.42
119	MP3A	Z	2.785	3.42
120	MP3A	Mx	.004	3.42
121	MP3B	X	7.045	3.42
122	MP3B	Z	4.068	3.42
123	MP3B	Mx	0	3.42
124	MP3B	X	7.045	3.42
125	MP3B	Z	4.068	3.42
126	MP3B	Mx	0	3.42
127	MP3C	X	4.824	3.42
128	MP3C	Z	2.785	3.42
129	MP3C	Mx	-.004	3.42
130	MP3C	X	4.824	3.42
131	MP3C	Z	2.785	3.42
132	MP3C	Mx	-.004	3.42
133	OVPB	X	14.485	1.5
134	OVPB	Z	8.363	1.5
135	OVPB	Mx	0	1.5
136	OVPB	X	14.485	1.5
137	OVPB	Z	8.363	1.5
138	OVPB	Mx	0	1.5
139	OVPC	X	13.695	1.5
140	OVPC	Z	7.907	1.5
141	OVPC	Mx	.007	1.5
142	OVPC	X	13.695	1.5
143	OVPC	Z	7.907	1.5
144	OVPC	Mx	.007	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	1.186	5.5
2	MP3A	Z	2.054	5.5
3	MP3A	Mx	.002	5.5
4	MP3A	X	1.186	6.5
5	MP3A	Z	2.054	6.5
6	MP3A	Mx	.002	6.5
7	MP3C	X	2.229	5.5
8	MP3C	Z	3.86	5.5
9	MP3C	Mx	-.004	5.5
10	MP3C	X	2.229	6.5
11	MP3C	Z	3.86	6.5
12	MP3C	Mx	-.004	6.5
13	MP3A	X	1.186	5.5
14	MP3A	Z	2.054	5.5
15	MP3A	Mx	.000501	5.5
16	MP3A	X	1.186	6.5
17	MP3A	Z	2.054	6.5
18	MP3A	Mx	.000501	6.5
19	MP3C	X	2.229	5.5
20	MP3C	Z	3.86	5.5
21	MP3C	Mx	-.004	5.5
22	MP3C	X	2.229	6.5
23	MP3C	Z	3.86	6.5
24	MP3C	Mx	-.004	6.5
25	MP4A	X	8.27	2.62
26	MP4A	Z	14.324	2.62
27	MP4A	Mx	-.008	2.62
28	MP4A	X	8.27	4.55
29	MP4A	Z	14.324	4.55
30	MP4A	Mx	-.008	4.55
31	MP4B	X	8.27	2.62
32	MP4B	Z	14.324	2.62
33	MP4B	Mx	-.008	2.62
34	MP4B	X	8.27	4.55
35	MP4B	Z	14.324	4.55
36	MP4B	Mx	-.008	4.55
37	MP4C	X	4.111	2.62
38	MP4C	Z	7.12	2.62
39	MP4C	Mx	.008	2.62
40	MP4C	X	4.111	4.55
41	MP4C	Z	7.12	4.55
42	MP4C	Mx	.008	4.55
43	MP3A	X	15.697	1.33
44	MP3A	Z	27.189	1.33
45	MP3A	Mx	.000163	1.33
46	MP3A	X	15.697	5.83
47	MP3A	Z	27.189	5.83
48	MP3A	Mx	.000163	5.83
49	MP3B	X	15.697	1.33
50	MP3B	Z	27.189	1.33
51	MP3B	Mx	-.032	1.33
52	MP3B	X	15.697	5.83
53	MP3B	Z	27.189	5.83
54	MP3B	Mx	-.032	5.83
55	MP3C	X	13.843	1.33
56	MP3C	Z	23.978	1.33
57	MP3C	Mx	.028	1.33
58	MP3C	X	13.843	5.83
59	MP3C	Z	23.978	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	.028	5.83
61	MP3A	X	15.697	1.33
62	MP3A	Z	27.189	1.33
63	MP3A	Mx	-.032	1.33
64	MP3A	X	15.697	5.83
65	MP3A	Z	27.189	5.83
66	MP3A	Mx	-.032	5.83
67	MP3B	X	15.697	1.33
68	MP3B	Z	27.189	1.33
69	MP3B	Mx	.000162	1.33
70	MP3B	X	15.697	5.83
71	MP3B	Z	27.189	5.83
72	MP3B	Mx	.000162	5.83
73	MP3C	X	13.843	1.33
74	MP3C	Z	23.978	1.33
75	MP3C	Mx	.028	1.33
76	MP3C	X	13.843	5.83
77	MP3C	Z	23.978	5.83
78	MP3C	Mx	.028	5.83
79	MP1A	X	1.725	3.07
80	MP1A	Z	2.988	3.07
81	MP1A	Mx	-.001	3.07
82	MP1A	X	1.725	4.1
83	MP1A	Z	2.988	4.1
84	MP1A	Mx	-.001	4.1
85	MP1B	X	1.725	3.07
86	MP1B	Z	2.988	3.07
87	MP1B	Mx	-.001	3.07
88	MP1B	X	1.725	4.1
89	MP1B	Z	2.988	4.1
90	MP1B	Mx	-.001	4.1
91	MP1C	X	.614	3.07
92	MP1C	Z	1.064	3.07
93	MP1C	Mx	.000819	3.07
94	MP1C	X	.614	4.1
95	MP1C	Z	1.064	4.1
96	MP1C	Mx	.000819	4.1
97	MP2A	X	3.758	3.42
98	MP2A	Z	6.509	3.42
99	MP2A	Mx	.003	3.42
100	MP2A	X	3.758	3.42
101	MP2A	Z	6.509	3.42
102	MP2A	Mx	.003	3.42
103	MP2B	X	3.758	3.42
104	MP2B	Z	6.509	3.42
105	MP2B	Mx	.003	3.42
106	MP2B	X	3.758	3.42
107	MP2B	Z	6.509	3.42
108	MP2B	Mx	.003	3.42
109	MP2C	X	2.829	3.42
110	MP2C	Z	4.899	3.42
111	MP2C	Mx	-.005	3.42
112	MP2C	X	2.829	3.42
113	MP2C	Z	4.899	3.42
114	MP2C	Mx	-.005	3.42
115	MP3A	X	3.64	3.42
116	MP3A	Z	6.305	3.42
117	MP3A	Mx	.003	3.42
118	MP3A	X	3.64	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	6.305	3.42
120	MP3A	Mx	.003	3.42
121	MP3B	X	3.64	3.42
122	MP3B	Z	6.305	3.42
123	MP3B	Mx	.003	3.42
124	MP3B	X	3.64	3.42
125	MP3B	Z	6.305	3.42
126	MP3B	Mx	.003	3.42
127	MP3C	X	2.358	3.42
128	MP3C	Z	4.084	3.42
129	MP3C	Mx	-.004	3.42
130	MP3C	X	2.358	3.42
131	MP3C	Z	4.084	3.42
132	MP3C	Mx	-.004	3.42
133	OVPB	X	7.907	1.5
134	OVPB	Z	13.695	1.5
135	OVPB	Mx	-.007	1.5
136	OVPB	X	7.907	1.5
137	OVPB	Z	13.695	1.5
138	OVPB	Mx	-.007	1.5
139	OVPC	X	6.994	1.5
140	OVPC	Z	12.115	1.5
141	OVPC	Mx	.01	1.5
142	OVPC	X	6.994	1.5
143	OVPC	Z	12.115	1.5
144	OVPC	Mx	.01	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	5.5
2	MP3A	Z	1.676	5.5
3	MP3A	Mx	.000559	5.5
4	MP3A	X	0	6.5
5	MP3A	Z	1.676	6.5
6	MP3A	Mx	.000559	6.5
7	MP3C	X	0	5.5
8	MP3C	Z	3.762	5.5
9	MP3C	Mx	-.004	5.5
10	MP3C	X	0	6.5
11	MP3C	Z	3.762	6.5
12	MP3C	Mx	-.004	6.5
13	MP3A	X	0	5.5
14	MP3A	Z	1.676	5.5
15	MP3A	Mx	-.000559	5.5
16	MP3A	X	0	6.5
17	MP3A	Z	1.676	6.5
18	MP3A	Mx	-.000559	6.5
19	MP3C	X	0	5.5
20	MP3C	Z	3.762	5.5
21	MP3C	Mx	-.003	5.5
22	MP3C	X	0	6.5
23	MP3C	Z	3.762	6.5
24	MP3C	Mx	-.003	6.5
25	MP4A	X	0	2.62
26	MP4A	Z	19.313	2.62
27	MP4A	Mx	0	2.62
28	MP4A	X	0	4.55
29	MP4A	Z	19.313	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	0	4.55
31	MP4B	X	0	2.62
32	MP4B	Z	10.994	2.62
33	MP4B	Mx	-.01	2.62
34	MP4B	X	0	4.55
35	MP4B	Z	10.994	4.55
36	MP4B	Mx	-.01	4.55
37	MP4C	X	0	2.62
38	MP4C	Z	10.994	2.62
39	MP4C	Mx	.01	2.62
40	MP4C	X	0	4.55
41	MP4C	Z	10.994	4.55
42	MP4C	Mx	.01	4.55
43	MP3A	X	0	1.33
44	MP3A	Z	32.631	1.33
45	MP3A	Mx	.019	1.33
46	MP3A	X	0	5.83
47	MP3A	Z	32.631	5.83
48	MP3A	Mx	.019	5.83
49	MP3B	X	0	1.33
50	MP3B	Z	28.923	1.33
51	MP3B	Mx	-.033	1.33
52	MP3B	X	0	5.83
53	MP3B	Z	28.923	5.83
54	MP3B	Mx	-.033	5.83
55	MP3C	X	0	1.33
56	MP3C	Z	28.923	1.33
57	MP3C	Mx	.017	1.33
58	MP3C	X	0	5.83
59	MP3C	Z	28.923	5.83
60	MP3C	Mx	.017	5.83
61	MP3A	X	0	1.33
62	MP3A	Z	32.631	1.33
63	MP3A	Mx	-.019	1.33
64	MP3A	X	0	5.83
65	MP3A	Z	32.631	5.83
66	MP3A	Mx	-.019	5.83
67	MP3B	X	0	1.33
68	MP3B	Z	28.923	1.33
69	MP3B	Mx	-.017	1.33
70	MP3B	X	0	5.83
71	MP3B	Z	28.923	5.83
72	MP3B	Mx	-.017	5.83
73	MP3C	X	0	1.33
74	MP3C	Z	28.923	1.33
75	MP3C	Mx	.033	1.33
76	MP3C	X	0	5.83
77	MP3C	Z	28.923	5.83
78	MP3C	Mx	.033	5.83
79	MP1A	X	0	3.07
80	MP1A	Z	4.191	3.07
81	MP1A	Mx	0	3.07
82	MP1A	X	0	4.1
83	MP1A	Z	4.191	4.1
84	MP1A	Mx	0	4.1
85	MP1B	X	0	3.07
86	MP1B	Z	1.969	3.07
87	MP1B	Mx	-.001	3.07
88	MP1B	X	0	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	1.969	4.1
90	MP1B	Mx	-0.001	4.1
91	MP1C	X	0	3.07
92	MP1C	Z	1.969	3.07
93	MP1C	Mx	.001	3.07
94	MP1C	X	0	4.1
95	MP1C	Z	1.969	4.1
96	MP1C	Mx	.001	4.1
97	MP2A	X	0	3.42
98	MP2A	Z	8.135	3.42
99	MP2A	Mx	0	3.42
100	MP2A	X	0	3.42
101	MP2A	Z	8.135	3.42
102	MP2A	Mx	0	3.42
103	MP2B	X	0	3.42
104	MP2B	Z	6.277	3.42
105	MP2B	Mx	.005	3.42
106	MP2B	X	0	3.42
107	MP2B	Z	6.277	3.42
108	MP2B	Mx	.005	3.42
109	MP2C	X	0	3.42
110	MP2C	Z	6.277	3.42
111	MP2C	Mx	-.005	3.42
112	MP2C	X	0	3.42
113	MP2C	Z	6.277	3.42
114	MP2C	Mx	-.005	3.42
115	MP3A	X	0	3.42
116	MP3A	Z	8.135	3.42
117	MP3A	Mx	0	3.42
118	MP3A	X	0	3.42
119	MP3A	Z	8.135	3.42
120	MP3A	Mx	0	3.42
121	MP3B	X	0	3.42
122	MP3B	Z	5.57	3.42
123	MP3B	Mx	.004	3.42
124	MP3B	X	0	3.42
125	MP3B	Z	5.57	3.42
126	MP3B	Mx	.004	3.42
127	MP3C	X	0	3.42
128	MP3C	Z	5.57	3.42
129	MP3C	Mx	-.004	3.42
130	MP3C	X	0	3.42
131	MP3C	Z	5.57	3.42
132	MP3C	Mx	-.004	3.42
133	OVPB	X	0	1.5
134	OVPB	Z	13.989	1.5
135	OVPB	Mx	-.01	1.5
136	OVPB	X	0	1.5
137	OVPB	Z	13.989	1.5
138	OVPB	Mx	-.01	1.5
139	OVPC	X	0	1.5
140	OVPC	Z	13.077	1.5
141	OVPC	Mx	.011	1.5
142	OVPC	X	0	1.5
143	OVPC	Z	13.077	1.5
144	OVPC	Mx	.011	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-1.186	5.5
2	MP3A	Z	2.054	5.5
3	MP3A	Mx	-.000501	5.5
4	MP3A	X	-1.186	6.5
5	MP3A	Z	2.054	6.5
6	MP3A	Mx	-.000501	6.5
7	MP3C	X	-1.186	5.5
8	MP3C	Z	2.054	5.5
9	MP3C	Mx	-.002	5.5
10	MP3C	X	-1.186	6.5
11	MP3C	Z	2.054	6.5
12	MP3C	Mx	-.002	6.5
13	MP3A	X	-1.186	5.5
14	MP3A	Z	2.054	5.5
15	MP3A	Mx	-.002	5.5
16	MP3A	X	-1.186	6.5
17	MP3A	Z	2.054	6.5
18	MP3A	Mx	-.002	6.5
19	MP3C	X	-1.186	5.5
20	MP3C	Z	2.054	5.5
21	MP3C	Mx	-.000501	5.5
22	MP3C	X	-1.186	6.5
23	MP3C	Z	2.054	6.5
24	MP3C	Mx	-.000501	6.5
25	MP4A	X	-8.27	2.62
26	MP4A	Z	14.324	2.62
27	MP4A	Mx	.008	2.62
28	MP4A	X	-8.27	4.55
29	MP4A	Z	14.324	4.55
30	MP4A	Mx	.008	4.55
31	MP4B	X	-4.111	2.62
32	MP4B	Z	7.12	2.62
33	MP4B	Mx	-.008	2.62
34	MP4B	X	-4.111	4.55
35	MP4B	Z	7.12	4.55
36	MP4B	Mx	-.008	4.55
37	MP4C	X	-8.27	2.62
38	MP4C	Z	14.324	2.62
39	MP4C	Mx	.008	2.62
40	MP4C	X	-8.27	4.55
41	MP4C	Z	14.324	4.55
42	MP4C	Mx	.008	4.55
43	MP3A	X	-15.697	1.33
44	MP3A	Z	27.189	1.33
45	MP3A	Mx	.032	1.33
46	MP3A	X	-15.697	5.83
47	MP3A	Z	27.189	5.83
48	MP3A	Mx	.032	5.83
49	MP3B	X	-13.843	1.33
50	MP3B	Z	23.978	1.33
51	MP3B	Mx	-.028	1.33
52	MP3B	X	-13.843	5.83
53	MP3B	Z	23.978	5.83
54	MP3B	Mx	-.028	5.83
55	MP3C	X	-15.697	1.33
56	MP3C	Z	27.189	1.33
57	MP3C	Mx	-.000162	1.33
58	MP3C	X	-15.697	5.83
59	MP3C	Z	27.189	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-0.00162	5.83
61	MP3A	X	-15.697	1.33
62	MP3A	Z	27.189	1.33
63	MP3A	Mx	-0.00163	1.33
64	MP3A	X	-15.697	5.83
65	MP3A	Z	27.189	5.83
66	MP3A	Mx	-0.00163	5.83
67	MP3B	X	-13.843	1.33
68	MP3B	Z	23.978	1.33
69	MP3B	Mx	-.028	1.33
70	MP3B	X	-13.843	5.83
71	MP3B	Z	23.978	5.83
72	MP3B	Mx	-.028	5.83
73	MP3C	X	-15.697	1.33
74	MP3C	Z	27.189	1.33
75	MP3C	Mx	.032	1.33
76	MP3C	X	-15.697	5.83
77	MP3C	Z	27.189	5.83
78	MP3C	Mx	.032	5.83
79	MP1A	X	-1.725	3.07
80	MP1A	Z	2.988	3.07
81	MP1A	Mx	.001	3.07
82	MP1A	X	-1.725	4.1
83	MP1A	Z	2.988	4.1
84	MP1A	Mx	.001	4.1
85	MP1B	X	-.614	3.07
86	MP1B	Z	1.064	3.07
87	MP1B	Mx	-.000819	3.07
88	MP1B	X	-.614	4.1
89	MP1B	Z	1.064	4.1
90	MP1B	Mx	-.000819	4.1
91	MP1C	X	-1.725	3.07
92	MP1C	Z	2.988	3.07
93	MP1C	Mx	.001	3.07
94	MP1C	X	-1.725	4.1
95	MP1C	Z	2.988	4.1
96	MP1C	Mx	.001	4.1
97	MP2A	X	-3.758	3.42
98	MP2A	Z	6.509	3.42
99	MP2A	Mx	-.003	3.42
100	MP2A	X	-3.758	3.42
101	MP2A	Z	6.509	3.42
102	MP2A	Mx	-.003	3.42
103	MP2B	X	-2.829	3.42
104	MP2B	Z	4.899	3.42
105	MP2B	Mx	.005	3.42
106	MP2B	X	-2.829	3.42
107	MP2B	Z	4.899	3.42
108	MP2B	Mx	.005	3.42
109	MP2C	X	-3.758	3.42
110	MP2C	Z	6.509	3.42
111	MP2C	Mx	-.003	3.42
112	MP2C	X	-3.758	3.42
113	MP2C	Z	6.509	3.42
114	MP2C	Mx	-.003	3.42
115	MP3A	X	-3.64	3.42
116	MP3A	Z	6.305	3.42
117	MP3A	Mx	-.003	3.42
118	MP3A	X	-3.64	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	6.305	3.42
120	MP3A	Mx	-.003	3.42
121	MP3B	X	-2.358	3.42
122	MP3B	Z	4.084	3.42
123	MP3B	Mx	.004	3.42
124	MP3B	X	-2.358	3.42
125	MP3B	Z	4.084	3.42
126	MP3B	Mx	.004	3.42
127	MP3C	X	-3.64	3.42
128	MP3C	Z	6.305	3.42
129	MP3C	Mx	-.003	3.42
130	MP3C	X	-3.64	3.42
131	MP3C	Z	6.305	3.42
132	MP3C	Mx	-.003	3.42
133	OVPB	X	-6.538	1.5
134	OVPB	Z	11.325	1.5
135	OVPB	Mx	-.011	1.5
136	OVPB	X	-6.538	1.5
137	OVPB	Z	11.325	1.5
138	OVPB	Mx	-.011	1.5
139	OVPC	X	-6.994	1.5
140	OVPC	Z	12.115	1.5
141	OVPC	Mx	.01	1.5
142	OVPC	X	-6.994	1.5
143	OVPC	Z	12.115	1.5
144	OVPC	Mx	.01	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-3.258	5.5
2	MP3A	Z	1.881	5.5
3	MP3A	Mx	-.003	5.5
4	MP3A	X	-3.258	6.5
5	MP3A	Z	1.881	6.5
6	MP3A	Mx	-.003	6.5
7	MP3C	X	-1.452	5.5
8	MP3C	Z	.838	5.5
9	MP3C	Mx	-.000559	5.5
10	MP3C	X	-1.452	6.5
11	MP3C	Z	.838	6.5
12	MP3C	Mx	-.000559	6.5
13	MP3A	X	-3.258	5.5
14	MP3A	Z	1.881	5.5
15	MP3A	Mx	-.004	5.5
16	MP3A	X	-3.258	6.5
17	MP3A	Z	1.881	6.5
18	MP3A	Mx	-.004	6.5
19	MP3C	X	-1.452	5.5
20	MP3C	Z	.838	5.5
21	MP3C	Mx	.000559	5.5
22	MP3C	X	-1.452	6.5
23	MP3C	Z	.838	6.5
24	MP3C	Mx	.000559	6.5
25	MP4A	X	-9.521	2.62
26	MP4A	Z	5.497	2.62
27	MP4A	Mx	.01	2.62
28	MP4A	X	-9.521	4.55
29	MP4A	Z	5.497	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	.01	4.55
31	MP4B	X	-9.521	2.62
32	MP4B	Z	5.497	2.62
33	MP4B	Mx	-.01	2.62
34	MP4B	X	-9.521	4.55
35	MP4B	Z	5.497	4.55
36	MP4B	Mx	-.01	4.55
37	MP4C	X	-16.726	2.62
38	MP4C	Z	9.657	2.62
39	MP4C	Mx	0	2.62
40	MP4C	X	-16.726	4.55
41	MP4C	Z	9.657	4.55
42	MP4C	Mx	0	4.55
43	MP3A	X	-25.048	1.33
44	MP3A	Z	14.461	1.33
45	MP3A	Mx	.033	1.33
46	MP3A	X	-25.048	5.83
47	MP3A	Z	14.461	5.83
48	MP3A	Mx	.033	5.83
49	MP3B	X	-25.048	1.33
50	MP3B	Z	14.461	1.33
51	MP3B	Mx	-.017	1.33
52	MP3B	X	-25.048	5.83
53	MP3B	Z	14.461	5.83
54	MP3B	Mx	-.017	5.83
55	MP3C	X	-28.259	1.33
56	MP3C	Z	16.315	1.33
57	MP3C	Mx	-.019	1.33
58	MP3C	X	-28.259	5.83
59	MP3C	Z	16.315	5.83
60	MP3C	Mx	-.019	5.83
61	MP3A	X	-25.048	1.33
62	MP3A	Z	14.461	1.33
63	MP3A	Mx	.017	1.33
64	MP3A	X	-25.048	5.83
65	MP3A	Z	14.461	5.83
66	MP3A	Mx	.017	5.83
67	MP3B	X	-25.048	1.33
68	MP3B	Z	14.461	1.33
69	MP3B	Mx	-.033	1.33
70	MP3B	X	-25.048	5.83
71	MP3B	Z	14.461	5.83
72	MP3B	Mx	-.033	5.83
73	MP3C	X	-28.259	1.33
74	MP3C	Z	16.315	1.33
75	MP3C	Mx	.019	1.33
76	MP3C	X	-28.259	5.83
77	MP3C	Z	16.315	5.83
78	MP3C	Mx	.019	5.83
79	MP1A	X	-1.705	3.07
80	MP1A	Z	.985	3.07
81	MP1A	Mx	.001	3.07
82	MP1A	X	-1.705	4.1
83	MP1A	Z	.985	4.1
84	MP1A	Mx	.001	4.1
85	MP1B	X	-1.705	3.07
86	MP1B	Z	.985	3.07
87	MP1B	Mx	-.001	3.07
88	MP1B	X	-1.705	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	.985	4.1
90	MP1B	Mx	-.001	4.1
91	MP1C	X	-3.629	3.07
92	MP1C	Z	2.095	3.07
93	MP1C	Mx	0	3.07
94	MP1C	X	-3.629	4.1
95	MP1C	Z	2.095	4.1
96	MP1C	Mx	0	4.1
97	MP2A	X	-5.436	3.42
98	MP2A	Z	3.138	3.42
99	MP2A	Mx	-.005	3.42
100	MP2A	X	-5.436	3.42
101	MP2A	Z	3.138	3.42
102	MP2A	Mx	-.005	3.42
103	MP2B	X	-5.436	3.42
104	MP2B	Z	3.138	3.42
105	MP2B	Mx	.005	3.42
106	MP2B	X	-5.436	3.42
107	MP2B	Z	3.138	3.42
108	MP2B	Mx	.005	3.42
109	MP2C	X	-7.045	3.42
110	MP2C	Z	4.068	3.42
111	MP2C	Mx	0	3.42
112	MP2C	X	-7.045	3.42
113	MP2C	Z	4.068	3.42
114	MP2C	Mx	0	3.42
115	MP3A	X	-4.824	3.42
116	MP3A	Z	2.785	3.42
117	MP3A	Mx	-.004	3.42
118	MP3A	X	-4.824	3.42
119	MP3A	Z	2.785	3.42
120	MP3A	Mx	-.004	3.42
121	MP3B	X	-4.824	3.42
122	MP3B	Z	2.785	3.42
123	MP3B	Mx	.004	3.42
124	MP3B	X	-4.824	3.42
125	MP3B	Z	2.785	3.42
126	MP3B	Mx	.004	3.42
127	MP3C	X	-7.045	3.42
128	MP3C	Z	4.068	3.42
129	MP3C	Mx	0	3.42
130	MP3C	X	-7.045	3.42
131	MP3C	Z	4.068	3.42
132	MP3C	Mx	0	3.42
133	OVPB	X	-12.115	1.5
134	OVPB	Z	6.994	1.5
135	OVPB	Mx	-.01	1.5
136	OVPB	X	-12.115	1.5
137	OVPB	Z	6.994	1.5
138	OVPB	Mx	-.01	1.5
139	OVPC	X	-13.695	1.5
140	OVPC	Z	7.907	1.5
141	OVPC	Mx	.007	1.5
142	OVPC	X	-13.695	1.5
143	OVPC	Z	7.907	1.5
144	OVPC	Mx	.007	1.5

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-4.457	5.5
2	MP3A	Z	0	5.5
3	MP3A	Mx	-.004	5.5
4	MP3A	X	-4.457	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-.004	6.5
7	MP3C	X	-2.372	5.5
8	MP3C	Z	0	5.5
9	MP3C	Mx	.000501	5.5
10	MP3C	X	-2.372	6.5
11	MP3C	Z	0	6.5
12	MP3C	Mx	.000501	6.5
13	MP3A	X	-4.457	5.5
14	MP3A	Z	0	5.5
15	MP3A	Mx	-.004	5.5
16	MP3A	X	-4.457	6.5
17	MP3A	Z	0	6.5
18	MP3A	Mx	-.004	6.5
19	MP3C	X	-2.372	5.5
20	MP3C	Z	0	5.5
21	MP3C	Mx	.002	5.5
22	MP3C	X	-2.372	6.5
23	MP3C	Z	0	6.5
24	MP3C	Mx	.002	6.5
25	MP4A	X	-8.221	2.62
26	MP4A	Z	0	2.62
27	MP4A	Mx	.008	2.62
28	MP4A	X	-8.221	4.55
29	MP4A	Z	0	4.55
30	MP4A	Mx	.008	4.55
31	MP4B	X	-16.54	2.62
32	MP4B	Z	0	2.62
33	MP4B	Mx	-.008	2.62
34	MP4B	X	-16.54	4.55
35	MP4B	Z	0	4.55
36	MP4B	Mx	-.008	4.55
37	MP4C	X	-16.54	2.62
38	MP4C	Z	0	2.62
39	MP4C	Mx	-.008	2.62
40	MP4C	X	-16.54	4.55
41	MP4C	Z	0	4.55
42	MP4C	Mx	-.008	4.55
43	MP3A	X	-27.687	1.33
44	MP3A	Z	0	1.33
45	MP3A	Mx	.028	1.33
46	MP3A	X	-27.687	5.83
47	MP3A	Z	0	5.83
48	MP3A	Mx	.028	5.83
49	MP3B	X	-31.395	1.33
50	MP3B	Z	0	1.33
51	MP3B	Mx	.000163	1.33
52	MP3B	X	-31.395	5.83
53	MP3B	Z	0	5.83
54	MP3B	Mx	.000163	5.83
55	MP3C	X	-31.395	1.33
56	MP3C	Z	0	1.33
57	MP3C	Mx	-.032	1.33
58	MP3C	X	-31.395	5.83
59	MP3C	Z	0	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-.032	5.83
61	MP3A	X	-27.687	1.33
62	MP3A	Z	0	1.33
63	MP3A	Mx	.028	1.33
64	MP3A	X	-27.687	5.83
65	MP3A	Z	0	5.83
66	MP3A	Mx	.028	5.83
67	MP3B	X	-31.395	1.33
68	MP3B	Z	0	1.33
69	MP3B	Mx	-.032	1.33
70	MP3B	X	-31.395	5.83
71	MP3B	Z	0	5.83
72	MP3B	Mx	-.032	5.83
73	MP3C	X	-31.395	1.33
74	MP3C	Z	0	1.33
75	MP3C	Mx	.000163	1.33
76	MP3C	X	-31.395	5.83
77	MP3C	Z	0	5.83
78	MP3C	Mx	.000163	5.83
79	MP1A	X	-1.229	3.07
80	MP1A	Z	0	3.07
81	MP1A	Mx	.000819	3.07
82	MP1A	X	-1.229	4.1
83	MP1A	Z	0	4.1
84	MP1A	Mx	.000819	4.1
85	MP1B	X	-3.45	3.07
86	MP1B	Z	0	3.07
87	MP1B	Mx	-.001	3.07
88	MP1B	X	-3.45	4.1
89	MP1B	Z	0	4.1
90	MP1B	Mx	-.001	4.1
91	MP1C	X	-3.45	3.07
92	MP1C	Z	0	3.07
93	MP1C	Mx	-.001	3.07
94	MP1C	X	-3.45	4.1
95	MP1C	Z	0	4.1
96	MP1C	Mx	-.001	4.1
97	MP2A	X	-5.657	3.42
98	MP2A	Z	0	3.42
99	MP2A	Mx	-.005	3.42
100	MP2A	X	-5.657	3.42
101	MP2A	Z	0	3.42
102	MP2A	Mx	-.005	3.42
103	MP2B	X	-7.516	3.42
104	MP2B	Z	0	3.42
105	MP2B	Mx	.003	3.42
106	MP2B	X	-7.516	3.42
107	MP2B	Z	0	3.42
108	MP2B	Mx	.003	3.42
109	MP2C	X	-7.516	3.42
110	MP2C	Z	0	3.42
111	MP2C	Mx	.003	3.42
112	MP2C	X	-7.516	3.42
113	MP2C	Z	0	3.42
114	MP2C	Mx	.003	3.42
115	MP3A	X	-4.715	3.42
116	MP3A	Z	0	3.42
117	MP3A	Mx	-.004	3.42
118	MP3A	X	-4.715	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	0	3.42
120	MP3A	Mx	-.004	3.42
121	MP3B	X	-7.28	3.42
122	MP3B	Z	0	3.42
123	MP3B	Mx	.003	3.42
124	MP3B	X	-7.28	3.42
125	MP3B	Z	0	3.42
126	MP3B	Mx	.003	3.42
127	MP3C	X	-7.28	3.42
128	MP3C	Z	0	3.42
129	MP3C	Mx	.003	3.42
130	MP3C	X	-7.28	3.42
131	MP3C	Z	0	3.42
132	MP3C	Mx	.003	3.42
133	OVPB	X	-15.813	1.5
134	OVPB	Z	0	1.5
135	OVPB	Mx	-.007	1.5
136	OVPB	X	-15.813	1.5
137	OVPB	Z	0	1.5
138	OVPB	Mx	-.007	1.5
139	OVPC	X	-16.725	1.5
140	OVPC	Z	0	1.5
141	OVPC	Mx	0	1.5
142	OVPC	X	-16.725	1.5
143	OVPC	Z	0	1.5
144	OVPC	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-3.258	5.5
2	MP3A	Z	-1.881	5.5
3	MP3A	Mx	-.004	5.5
4	MP3A	X	-3.258	6.5
5	MP3A	Z	-1.881	6.5
6	MP3A	Mx	-.004	6.5
7	MP3C	X	-3.258	5.5
8	MP3C	Z	-1.881	5.5
9	MP3C	Mx	.003	5.5
10	MP3C	X	-3.258	6.5
11	MP3C	Z	-1.881	6.5
12	MP3C	Mx	.003	6.5
13	MP3A	X	-3.258	5.5
14	MP3A	Z	-1.881	5.5
15	MP3A	Mx	-.003	5.5
16	MP3A	X	-3.258	6.5
17	MP3A	Z	-1.881	6.5
18	MP3A	Mx	-.003	6.5
19	MP3C	X	-3.258	5.5
20	MP3C	Z	-1.881	5.5
21	MP3C	Mx	.004	5.5
22	MP3C	X	-3.258	6.5
23	MP3C	Z	-1.881	6.5
24	MP3C	Mx	.004	6.5
25	MP4A	X	-9.521	2.62
26	MP4A	Z	-5.497	2.62
27	MP4A	Mx	.01	2.62
28	MP4A	X	-9.521	4.55
29	MP4A	Z	-5.497	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	.01	4.55
31	MP4B	X	-16.726	2.62
32	MP4B	Z	-9.657	2.62
33	MP4B	Mx	0	2.62
34	MP4B	X	-16.726	4.55
35	MP4B	Z	-9.657	4.55
36	MP4B	Mx	0	4.55
37	MP4C	X	-9.521	2.62
38	MP4C	Z	-5.497	2.62
39	MP4C	Mx	-.01	2.62
40	MP4C	X	-9.521	4.55
41	MP4C	Z	-5.497	4.55
42	MP4C	Mx	-.01	4.55
43	MP3A	X	-25.048	1.33
44	MP3A	Z	-14.461	1.33
45	MP3A	Mx	.017	1.33
46	MP3A	X	-25.048	5.83
47	MP3A	Z	-14.461	5.83
48	MP3A	Mx	.017	5.83
49	MP3B	X	-28.259	1.33
50	MP3B	Z	-16.315	1.33
51	MP3B	Mx	.019	1.33
52	MP3B	X	-28.259	5.83
53	MP3B	Z	-16.315	5.83
54	MP3B	Mx	.019	5.83
55	MP3C	X	-25.048	1.33
56	MP3C	Z	-14.461	1.33
57	MP3C	Mx	-.033	1.33
58	MP3C	X	-25.048	5.83
59	MP3C	Z	-14.461	5.83
60	MP3C	Mx	-.033	5.83
61	MP3A	X	-25.048	1.33
62	MP3A	Z	-14.461	1.33
63	MP3A	Mx	.033	1.33
64	MP3A	X	-25.048	5.83
65	MP3A	Z	-14.461	5.83
66	MP3A	Mx	.033	5.83
67	MP3B	X	-28.259	1.33
68	MP3B	Z	-16.315	1.33
69	MP3B	Mx	-.019	1.33
70	MP3B	X	-28.259	5.83
71	MP3B	Z	-16.315	5.83
72	MP3B	Mx	-.019	5.83
73	MP3C	X	-25.048	1.33
74	MP3C	Z	-14.461	1.33
75	MP3C	Mx	-.017	1.33
76	MP3C	X	-25.048	5.83
77	MP3C	Z	-14.461	5.83
78	MP3C	Mx	-.017	5.83
79	MP1A	X	-1.705	3.07
80	MP1A	Z	-.985	3.07
81	MP1A	Mx	.001	3.07
82	MP1A	X	-1.705	4.1
83	MP1A	Z	-.985	4.1
84	MP1A	Mx	.001	4.1
85	MP1B	X	-3.629	3.07
86	MP1B	Z	-2.095	3.07
87	MP1B	Mx	0	3.07
88	MP1B	X	-3.629	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-2.095	4.1
90	MP1B	Mx	0	4.1
91	MP1C	X	-1.705	3.07
92	MP1C	Z	-.985	3.07
93	MP1C	Mx	-.001	3.07
94	MP1C	X	-1.705	4.1
95	MP1C	Z	-.985	4.1
96	MP1C	Mx	-.001	4.1
97	MP2A	X	-5.436	3.42
98	MP2A	Z	-3.138	3.42
99	MP2A	Mx	-.005	3.42
100	MP2A	X	-5.436	3.42
101	MP2A	Z	-3.138	3.42
102	MP2A	Mx	-.005	3.42
103	MP2B	X	-7.045	3.42
104	MP2B	Z	-4.068	3.42
105	MP2B	Mx	0	3.42
106	MP2B	X	-7.045	3.42
107	MP2B	Z	-4.068	3.42
108	MP2B	Mx	0	3.42
109	MP2C	X	-5.436	3.42
110	MP2C	Z	-3.138	3.42
111	MP2C	Mx	.005	3.42
112	MP2C	X	-5.436	3.42
113	MP2C	Z	-3.138	3.42
114	MP2C	Mx	.005	3.42
115	MP3A	X	-4.824	3.42
116	MP3A	Z	-2.785	3.42
117	MP3A	Mx	-.004	3.42
118	MP3A	X	-4.824	3.42
119	MP3A	Z	-2.785	3.42
120	MP3A	Mx	-.004	3.42
121	MP3B	X	-7.045	3.42
122	MP3B	Z	-4.068	3.42
123	MP3B	Mx	0	3.42
124	MP3B	X	-7.045	3.42
125	MP3B	Z	-4.068	3.42
126	MP3B	Mx	0	3.42
127	MP3C	X	-4.824	3.42
128	MP3C	Z	-2.785	3.42
129	MP3C	Mx	.004	3.42
130	MP3C	X	-4.824	3.42
131	MP3C	Z	-2.785	3.42
132	MP3C	Mx	.004	3.42
133	OVPB	X	-14.485	1.5
134	OVPB	Z	-8.363	1.5
135	OVPB	Mx	0	1.5
136	OVPB	X	-14.485	1.5
137	OVPB	Z	-8.363	1.5
138	OVPB	Mx	0	1.5
139	OVPC	X	-13.695	1.5
140	OVPC	Z	-7.907	1.5
141	OVPC	Mx	-.007	1.5
142	OVPC	X	-13.695	1.5
143	OVPC	Z	-7.907	1.5
144	OVPC	Mx	-.007	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-1.186	5.5
2	MP3A	Z	-2.054	5.5
3	MP3A	Mx	-.002	5.5
4	MP3A	X	-1.186	6.5
5	MP3A	Z	-2.054	6.5
6	MP3A	Mx	-.002	6.5
7	MP3C	X	-2.229	5.5
8	MP3C	Z	-3.86	5.5
9	MP3C	Mx	.004	5.5
10	MP3C	X	-2.229	6.5
11	MP3C	Z	-3.86	6.5
12	MP3C	Mx	.004	6.5
13	MP3A	X	-1.186	5.5
14	MP3A	Z	-2.054	5.5
15	MP3A	Mx	-.000501	5.5
16	MP3A	X	-1.186	6.5
17	MP3A	Z	-2.054	6.5
18	MP3A	Mx	-.000501	6.5
19	MP3C	X	-2.229	5.5
20	MP3C	Z	-3.86	5.5
21	MP3C	Mx	.004	5.5
22	MP3C	X	-2.229	6.5
23	MP3C	Z	-3.86	6.5
24	MP3C	Mx	.004	6.5
25	MP4A	X	-8.27	2.62
26	MP4A	Z	-14.324	2.62
27	MP4A	Mx	.008	2.62
28	MP4A	X	-8.27	4.55
29	MP4A	Z	-14.324	4.55
30	MP4A	Mx	.008	4.55
31	MP4B	X	-8.27	2.62
32	MP4B	Z	-14.324	2.62
33	MP4B	Mx	.008	2.62
34	MP4B	X	-8.27	4.55
35	MP4B	Z	-14.324	4.55
36	MP4B	Mx	.008	4.55
37	MP4C	X	-4.111	2.62
38	MP4C	Z	-7.12	2.62
39	MP4C	Mx	-.008	2.62
40	MP4C	X	-4.111	4.55
41	MP4C	Z	-7.12	4.55
42	MP4C	Mx	-.008	4.55
43	MP3A	X	-15.697	1.33
44	MP3A	Z	-27.189	1.33
45	MP3A	Mx	-.000163	1.33
46	MP3A	X	-15.697	5.83
47	MP3A	Z	-27.189	5.83
48	MP3A	Mx	-.000163	5.83
49	MP3B	X	-15.697	1.33
50	MP3B	Z	-27.189	1.33
51	MP3B	Mx	.032	1.33
52	MP3B	X	-15.697	5.83
53	MP3B	Z	-27.189	5.83
54	MP3B	Mx	.032	5.83
55	MP3C	X	-13.843	1.33
56	MP3C	Z	-23.978	1.33
57	MP3C	Mx	-.028	1.33
58	MP3C	X	-13.843	5.83
59	MP3C	Z	-23.978	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-.028	5.83
61	MP3A	X	-15.697	1.33
62	MP3A	Z	-27.189	1.33
63	MP3A	Mx	.032	1.33
64	MP3A	X	-15.697	5.83
65	MP3A	Z	-27.189	5.83
66	MP3A	Mx	.032	5.83
67	MP3B	X	-15.697	1.33
68	MP3B	Z	-27.189	1.33
69	MP3B	Mx	-.000162	1.33
70	MP3B	X	-15.697	5.83
71	MP3B	Z	-27.189	5.83
72	MP3B	Mx	-.000162	5.83
73	MP3C	X	-13.843	1.33
74	MP3C	Z	-23.978	1.33
75	MP3C	Mx	-.028	1.33
76	MP3C	X	-13.843	5.83
77	MP3C	Z	-23.978	5.83
78	MP3C	Mx	-.028	5.83
79	MP1A	X	-1.725	3.07
80	MP1A	Z	-2.988	3.07
81	MP1A	Mx	.001	3.07
82	MP1A	X	-1.725	4.1
83	MP1A	Z	-2.988	4.1
84	MP1A	Mx	.001	4.1
85	MP1B	X	-1.725	3.07
86	MP1B	Z	-2.988	3.07
87	MP1B	Mx	.001	3.07
88	MP1B	X	-1.725	4.1
89	MP1B	Z	-2.988	4.1
90	MP1B	Mx	.001	4.1
91	MP1C	X	-.614	3.07
92	MP1C	Z	-1.064	3.07
93	MP1C	Mx	-.000819	3.07
94	MP1C	X	-.614	4.1
95	MP1C	Z	-1.064	4.1
96	MP1C	Mx	-.000819	4.1
97	MP2A	X	-3.758	3.42
98	MP2A	Z	-6.509	3.42
99	MP2A	Mx	-.003	3.42
100	MP2A	X	-3.758	3.42
101	MP2A	Z	-6.509	3.42
102	MP2A	Mx	-.003	3.42
103	MP2B	X	-3.758	3.42
104	MP2B	Z	-6.509	3.42
105	MP2B	Mx	-.003	3.42
106	MP2B	X	-3.758	3.42
107	MP2B	Z	-6.509	3.42
108	MP2B	Mx	-.003	3.42
109	MP2C	X	-2.829	3.42
110	MP2C	Z	-4.899	3.42
111	MP2C	Mx	.005	3.42
112	MP2C	X	-2.829	3.42
113	MP2C	Z	-4.899	3.42
114	MP2C	Mx	.005	3.42
115	MP3A	X	-3.64	3.42
116	MP3A	Z	-6.305	3.42
117	MP3A	Mx	-.003	3.42
118	MP3A	X	-3.64	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	-6.305	3.42
120	MP3A	Mx	-.003	3.42
121	MP3B	X	-3.64	3.42
122	MP3B	Z	-6.305	3.42
123	MP3B	Mx	-.003	3.42
124	MP3B	X	-3.64	3.42
125	MP3B	Z	-6.305	3.42
126	MP3B	Mx	-.003	3.42
127	MP3C	X	-2.358	3.42
128	MP3C	Z	-4.084	3.42
129	MP3C	Mx	.004	3.42
130	MP3C	X	-2.358	3.42
131	MP3C	Z	-4.084	3.42
132	MP3C	Mx	.004	3.42
133	OVPB	X	-7.907	1.5
134	OVPB	Z	-13.695	1.5
135	OVPB	Mx	.007	1.5
136	OVPB	X	-7.907	1.5
137	OVPB	Z	-13.695	1.5
138	OVPB	Mx	.007	1.5
139	OVPC	X	-6.994	1.5
140	OVPC	Z	-12.115	1.5
141	OVPC	Mx	-.01	1.5
142	OVPC	X	-6.994	1.5
143	OVPC	Z	-12.115	1.5
144	OVPC	Mx	-.01	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	5.5
2	MP3A	Z	-1.255	5.5
3	MP3A	Mx	-.000418	5.5
4	MP3A	X	0	6.5
5	MP3A	Z	-1.255	6.5
6	MP3A	Mx	-.000418	6.5
7	MP3C	X	0	5.5
8	MP3C	Z	-1.258	5.5
9	MP3C	Mx	.001	5.5
10	MP3C	X	0	6.5
11	MP3C	Z	-1.258	6.5
12	MP3C	Mx	.001	6.5
13	MP3A	X	0	5.5
14	MP3A	Z	-1.255	5.5
15	MP3A	Mx	.000418	5.5
16	MP3A	X	0	6.5
17	MP3A	Z	-1.255	6.5
18	MP3A	Mx	.000418	6.5
19	MP3C	X	0	5.5
20	MP3C	Z	-1.258	5.5
21	MP3C	Mx	.00088	5.5
22	MP3C	X	0	6.5
23	MP3C	Z	-1.258	6.5
24	MP3C	Mx	.00088	6.5
25	MP4A	X	0	2.62
26	MP4A	Z	-5.138	2.62
27	MP4A	Mx	0	2.62
28	MP4A	X	0	4.55
29	MP4A	Z	-5.138	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	0	4.55
31	MP4B	X	0	2.62
32	MP4B	Z	-2.612	2.62
33	MP4B	Mx	.002	2.62
34	MP4B	X	0	4.55
35	MP4B	Z	-2.612	4.55
36	MP4B	Mx	.002	4.55
37	MP4C	X	0	2.62
38	MP4C	Z	-2.612	2.62
39	MP4C	Mx	-.002	2.62
40	MP4C	X	0	4.55
41	MP4C	Z	-2.612	4.55
42	MP4C	Mx	-.002	4.55
43	MP3A	X	0	1.33
44	MP3A	Z	-10.656	1.33
45	MP3A	Mx	-.006	1.33
46	MP3A	X	0	5.83
47	MP3A	Z	-10.656	5.83
48	MP3A	Mx	-.006	5.83
49	MP3B	X	0	1.33
50	MP3B	Z	-9.348	1.33
51	MP3B	Mx	.011	1.33
52	MP3B	X	0	5.83
53	MP3B	Z	-9.348	5.83
54	MP3B	Mx	.011	5.83
55	MP3C	X	0	1.33
56	MP3C	Z	-9.348	1.33
57	MP3C	Mx	-.005	1.33
58	MP3C	X	0	5.83
59	MP3C	Z	-9.348	5.83
60	MP3C	Mx	-.005	5.83
61	MP3A	X	0	1.33
62	MP3A	Z	-10.656	1.33
63	MP3A	Mx	.006	1.33
64	MP3A	X	0	5.83
65	MP3A	Z	-10.656	5.83
66	MP3A	Mx	.006	5.83
67	MP3B	X	0	1.33
68	MP3B	Z	-9.348	1.33
69	MP3B	Mx	.005	1.33
70	MP3B	X	0	5.83
71	MP3B	Z	-9.348	5.83
72	MP3B	Mx	.005	5.83
73	MP3C	X	0	1.33
74	MP3C	Z	-9.348	1.33
75	MP3C	Mx	-.011	1.33
76	MP3C	X	0	5.83
77	MP3C	Z	-9.348	5.83
78	MP3C	Mx	-.011	5.83
79	MP1A	X	0	3.07
80	MP1A	Z	-1.167	3.07
81	MP1A	Mx	0	3.07
82	MP1A	X	0	4.1
83	MP1A	Z	-1.167	4.1
84	MP1A	Mx	0	4.1
85	MP1B	X	0	3.07
86	MP1B	Z	-.463	3.07
87	MP1B	Mx	.000267	3.07
88	MP1B	X	0	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-463	4.1
90	MP1B	Mx	.000267	4.1
91	MP1C	X	0	3.07
92	MP1C	Z	-463	3.07
93	MP1C	Mx	-.000267	3.07
94	MP1C	X	0	4.1
95	MP1C	Z	-463	4.1
96	MP1C	Mx	-.000267	4.1
97	MP2A	X	0	3.42
98	MP2A	Z	-2.032	3.42
99	MP2A	Mx	0	3.42
100	MP2A	X	0	3.42
101	MP2A	Z	-2.032	3.42
102	MP2A	Mx	0	3.42
103	MP2B	X	0	3.42
104	MP2B	Z	-1.53	3.42
105	MP2B	Mx	-.001	3.42
106	MP2B	X	0	3.42
107	MP2B	Z	-1.53	3.42
108	MP2B	Mx	-.001	3.42
109	MP2C	X	0	3.42
110	MP2C	Z	-1.53	3.42
111	MP2C	Mx	.001	3.42
112	MP2C	X	0	3.42
113	MP2C	Z	-1.53	3.42
114	MP2C	Mx	.001	3.42
115	MP3A	X	0	3.42
116	MP3A	Z	-2.032	3.42
117	MP3A	Mx	0	3.42
118	MP3A	X	0	3.42
119	MP3A	Z	-2.032	3.42
120	MP3A	Mx	0	3.42
121	MP3B	X	0	3.42
122	MP3B	Z	-1.343	3.42
123	MP3B	Mx	-.000969	3.42
124	MP3B	X	0	3.42
125	MP3B	Z	-1.343	3.42
126	MP3B	Mx	-.000969	3.42
127	MP3C	X	0	3.42
128	MP3C	Z	-1.343	3.42
129	MP3C	Mx	.000969	3.42
130	MP3C	X	0	3.42
131	MP3C	Z	-1.343	3.42
132	MP3C	Mx	.000969	3.42
133	OVPB	X	0	1.5
134	OVPB	Z	-3.408	1.5
135	OVPB	Mx	.002	1.5
136	OVPB	X	0	1.5
137	OVPB	Z	-3.408	1.5
138	OVPB	Mx	.002	1.5
139	OVPC	X	0	1.5
140	OVPC	Z	-3.159	1.5
141	OVPC	Mx	-.003	1.5
142	OVPC	X	0	1.5
143	OVPC	Z	-3.159	1.5
144	OVPC	Mx	-.003	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	.628	5.5
2	MP3A	Z	-1.088	5.5
3	MP3A	Mx	.000265	5.5
4	MP3A	X	.628	6.5
5	MP3A	Z	-1.088	6.5
6	MP3A	Mx	.000265	6.5
7	MP3C	X	.628	5.5
8	MP3C	Z	-1.088	5.5
9	MP3C	Mx	.000991	5.5
10	MP3C	X	.628	6.5
11	MP3C	Z	-1.088	6.5
12	MP3C	Mx	.000991	6.5
13	MP3A	X	.628	5.5
14	MP3A	Z	-1.088	5.5
15	MP3A	Mx	.000991	5.5
16	MP3A	X	.628	6.5
17	MP3A	Z	-1.088	6.5
18	MP3A	Mx	.000991	6.5
19	MP3C	X	.628	5.5
20	MP3C	Z	-1.088	5.5
21	MP3C	Mx	.000266	5.5
22	MP3C	X	.628	6.5
23	MP3C	Z	-1.088	6.5
24	MP3C	Mx	.000266	6.5
25	MP4A	X	2.148	2.62
26	MP4A	Z	-3.72	2.62
27	MP4A	Mx	-.002	2.62
28	MP4A	X	2.148	4.55
29	MP4A	Z	-3.72	4.55
30	MP4A	Mx	-.002	4.55
31	MP4B	X	.885	2.62
32	MP4B	Z	-1.532	2.62
33	MP4B	Mx	.002	2.62
34	MP4B	X	.885	4.55
35	MP4B	Z	-1.532	4.55
36	MP4B	Mx	.002	4.55
37	MP4C	X	2.148	2.62
38	MP4C	Z	-3.72	2.62
39	MP4C	Mx	-.002	2.62
40	MP4C	X	2.148	4.55
41	MP4C	Z	-3.72	4.55
42	MP4C	Mx	-.002	4.55
43	MP3A	X	5.11	1.33
44	MP3A	Z	-8.851	1.33
45	MP3A	Mx	-.01	1.33
46	MP3A	X	5.11	5.83
47	MP3A	Z	-8.851	5.83
48	MP3A	Mx	-.01	5.83
49	MP3B	X	4.456	1.33
50	MP3B	Z	-7.719	1.33
51	MP3B	Mx	.009	1.33
52	MP3B	X	4.456	5.83
53	MP3B	Z	-7.719	5.83
54	MP3B	Mx	.009	5.83
55	MP3C	X	5.11	1.33
56	MP3C	Z	-8.851	1.33
57	MP3C	Mx	5.3e-5	1.33
58	MP3C	X	5.11	5.83
59	MP3C	Z	-8.851	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	5.3e-5	5.83
61	MP3A	X	5.11	1.33
62	MP3A	Z	-8.851	1.33
63	MP3A	Mx	5.3e-5	1.33
64	MP3A	X	5.11	5.83
65	MP3A	Z	-8.851	5.83
66	MP3A	Mx	5.3e-5	5.83
67	MP3B	X	4.456	1.33
68	MP3B	Z	-7.719	1.33
69	MP3B	Mx	.009	1.33
70	MP3B	X	4.456	5.83
71	MP3B	Z	-7.719	5.83
72	MP3B	Mx	.009	5.83
73	MP3C	X	5.11	1.33
74	MP3C	Z	-8.851	1.33
75	MP3C	Mx	-.01	1.33
76	MP3C	X	5.11	5.83
77	MP3C	Z	-8.851	5.83
78	MP3C	Mx	-.01	5.83
79	MP1A	X	.466	3.07
80	MP1A	Z	-.807	3.07
81	MP1A	Mx	-.000311	3.07
82	MP1A	X	.466	4.1
83	MP1A	Z	-.807	4.1
84	MP1A	Mx	-.000311	4.1
85	MP1B	X	.114	3.07
86	MP1B	Z	-.198	3.07
87	MP1B	Mx	.000152	3.07
88	MP1B	X	.114	4.1
89	MP1B	Z	-.198	4.1
90	MP1B	Mx	.000152	4.1
91	MP1C	X	.466	3.07
92	MP1C	Z	-.807	3.07
93	MP1C	Mx	-.000311	3.07
94	MP1C	X	.466	4.1
95	MP1C	Z	-.807	4.1
96	MP1C	Mx	-.000311	4.1
97	MP2A	X	.932	3.42
98	MP2A	Z	-1.615	3.42
99	MP2A	Mx	.000777	3.42
100	MP2A	X	.932	3.42
101	MP2A	Z	-1.615	3.42
102	MP2A	Mx	.000777	3.42
103	MP2B	X	.682	3.42
104	MP2B	Z	-1.18	3.42
105	MP2B	Mx	-.001	3.42
106	MP2B	X	.682	3.42
107	MP2B	Z	-1.18	3.42
108	MP2B	Mx	-.001	3.42
109	MP2C	X	.932	3.42
110	MP2C	Z	-1.615	3.42
111	MP2C	Mx	.000777	3.42
112	MP2C	X	.932	3.42
113	MP2C	Z	-1.615	3.42
114	MP2C	Mx	.000777	3.42
115	MP3A	X	.901	3.42
116	MP3A	Z	-1.561	3.42
117	MP3A	Mx	.000751	3.42
118	MP3A	X	.901	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	-1.561	3.42
120	MP3A	Mx	.000751	3.42
121	MP3B	X	.557	3.42
122	MP3B	Z	-.965	3.42
123	MP3B	Mx	-.000929	3.42
124	MP3B	X	.557	3.42
125	MP3B	Z	-.965	3.42
126	MP3B	Mx	-.000929	3.42
127	MP3C	X	.901	3.42
128	MP3C	Z	-1.561	3.42
129	MP3C	Mx	.000751	3.42
130	MP3C	X	.901	3.42
131	MP3C	Z	-1.561	3.42
132	MP3C	Mx	.000751	3.42
133	OVPB	X	1.579	1.5
134	OVPB	Z	-2.736	1.5
135	OVPB	Mx	.003	1.5
136	OVPB	X	1.579	1.5
137	OVPB	Z	-2.736	1.5
138	OVPB	Mx	.003	1.5
139	OVPC	X	1.704	1.5
140	OVPC	Z	-2.951	1.5
141	OVPC	Mx	-.002	1.5
142	OVPC	X	1.704	1.5
143	OVPC	Z	-2.951	1.5
144	OVPC	Mx	-.002	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	1.089	5.5
2	MP3A	Z	-.629	5.5
3	MP3A	Mx	.000879	5.5
4	MP3A	X	1.089	6.5
5	MP3A	Z	-.629	6.5
6	MP3A	Mx	.000879	6.5
7	MP3C	X	1.087	5.5
8	MP3C	Z	-.628	5.5
9	MP3C	Mx	.000419	5.5
10	MP3C	X	1.087	6.5
11	MP3C	Z	-.628	6.5
12	MP3C	Mx	.000419	6.5
13	MP3A	X	1.089	5.5
14	MP3A	Z	-.629	5.5
15	MP3A	Mx	.001	5.5
16	MP3A	X	1.089	6.5
17	MP3A	Z	-.629	6.5
18	MP3A	Mx	.001	6.5
19	MP3C	X	1.087	5.5
20	MP3C	Z	-.628	5.5
21	MP3C	Mx	-.000418	5.5
22	MP3C	X	1.087	6.5
23	MP3C	Z	-.628	6.5
24	MP3C	Mx	-.000418	6.5
25	MP4A	X	2.262	2.62
26	MP4A	Z	-1.306	2.62
27	MP4A	Mx	-.002	2.62
28	MP4A	X	2.262	4.55
29	MP4A	Z	-1.306	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	-.002	4.55
31	MP4B	X	2.262	2.62
32	MP4B	Z	-1.306	2.62
33	MP4B	Mx	.002	2.62
34	MP4B	X	2.262	4.55
35	MP4B	Z	-1.306	4.55
36	MP4B	Mx	.002	4.55
37	MP4C	X	4.45	2.62
38	MP4C	Z	-2.569	2.62
39	MP4C	Mx	0	2.62
40	MP4C	X	4.45	4.55
41	MP4C	Z	-2.569	4.55
42	MP4C	Mx	0	4.55
43	MP3A	X	8.096	1.33
44	MP3A	Z	-4.674	1.33
45	MP3A	Mx	-.011	1.33
46	MP3A	X	8.096	5.83
47	MP3A	Z	-4.674	5.83
48	MP3A	Mx	-.011	5.83
49	MP3B	X	8.096	1.33
50	MP3B	Z	-4.674	1.33
51	MP3B	Mx	.005	1.33
52	MP3B	X	8.096	5.83
53	MP3B	Z	-4.674	5.83
54	MP3B	Mx	.005	5.83
55	MP3C	X	9.228	1.33
56	MP3C	Z	-5.328	1.33
57	MP3C	Mx	.006	1.33
58	MP3C	X	9.228	5.83
59	MP3C	Z	-5.328	5.83
60	MP3C	Mx	.006	5.83
61	MP3A	X	8.096	1.33
62	MP3A	Z	-4.674	1.33
63	MP3A	Mx	-.005	1.33
64	MP3A	X	8.096	5.83
65	MP3A	Z	-4.674	5.83
66	MP3A	Mx	-.005	5.83
67	MP3B	X	8.096	1.33
68	MP3B	Z	-4.674	1.33
69	MP3B	Mx	.011	1.33
70	MP3B	X	8.096	5.83
71	MP3B	Z	-4.674	5.83
72	MP3B	Mx	.011	5.83
73	MP3C	X	9.228	1.33
74	MP3C	Z	-5.328	1.33
75	MP3C	Mx	-.006	1.33
76	MP3C	X	9.228	5.83
77	MP3C	Z	-5.328	5.83
78	MP3C	Mx	-.006	5.83
79	MP1A	X	.401	3.07
80	MP1A	Z	-.232	3.07
81	MP1A	Mx	-.000267	3.07
82	MP1A	X	.401	4.1
83	MP1A	Z	-.232	4.1
84	MP1A	Mx	-.000267	4.1
85	MP1B	X	.401	3.07
86	MP1B	Z	-.232	3.07
87	MP1B	Mx	.000268	3.07
88	MP1B	X	.401	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-.232	4.1
90	MP1B	Mx	.000268	4.1
91	MP1C	X	1.01	3.07
92	MP1C	Z	-.583	3.07
93	MP1C	Mx	0	3.07
94	MP1C	X	1.01	4.1
95	MP1C	Z	-.583	4.1
96	MP1C	Mx	0	4.1
97	MP2A	X	1.325	3.42
98	MP2A	Z	-.765	3.42
99	MP2A	Mx	.001	3.42
100	MP2A	X	1.325	3.42
101	MP2A	Z	-.765	3.42
102	MP2A	Mx	.001	3.42
103	MP2B	X	1.325	3.42
104	MP2B	Z	-.765	3.42
105	MP2B	Mx	-.001	3.42
106	MP2B	X	1.325	3.42
107	MP2B	Z	-.765	3.42
108	MP2B	Mx	-.001	3.42
109	MP2C	X	1.759	3.42
110	MP2C	Z	-1.016	3.42
111	MP2C	Mx	0	3.42
112	MP2C	X	1.759	3.42
113	MP2C	Z	-1.016	3.42
114	MP2C	Mx	0	3.42
115	MP3A	X	1.163	3.42
116	MP3A	Z	-.672	3.42
117	MP3A	Mx	.000969	3.42
118	MP3A	X	1.163	3.42
119	MP3A	Z	-.672	3.42
120	MP3A	Mx	.000969	3.42
121	MP3B	X	1.163	3.42
122	MP3B	Z	-.672	3.42
123	MP3B	Mx	-.00097	3.42
124	MP3B	X	1.163	3.42
125	MP3B	Z	-.672	3.42
126	MP3B	Mx	-.00097	3.42
127	MP3C	X	1.759	3.42
128	MP3C	Z	-1.016	3.42
129	MP3C	Mx	0	3.42
130	MP3C	X	1.759	3.42
131	MP3C	Z	-1.016	3.42
132	MP3C	Mx	0	3.42
133	OVPB	X	2.951	1.5
134	OVPB	Z	-1.704	1.5
135	OVPB	Mx	.002	1.5
136	OVPB	X	2.951	1.5
137	OVPB	Z	-1.704	1.5
138	OVPB	Mx	.002	1.5
139	OVPC	X	3.383	1.5
140	OVPC	Z	-1.953	1.5
141	OVPC	Mx	-.002	1.5
142	OVPC	X	3.383	1.5
143	OVPC	Z	-1.953	1.5
144	OVPC	Mx	-.002	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	1.259	5.5
2	MP3A	Z	0	5.5
3	MP3A	Mx	.001	5.5
4	MP3A	X	1.259	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	.001	6.5
7	MP3C	X	1.256	5.5
8	MP3C	Z	0	5.5
9	MP3C	Mx	-.000265	5.5
10	MP3C	X	1.256	6.5
11	MP3C	Z	0	6.5
12	MP3C	Mx	-.000265	6.5
13	MP3A	X	1.259	5.5
14	MP3A	Z	0	5.5
15	MP3A	Mx	.001	5.5
16	MP3A	X	1.259	6.5
17	MP3A	Z	0	6.5
18	MP3A	Mx	.001	6.5
19	MP3C	X	1.256	5.5
20	MP3C	Z	0	5.5
21	MP3C	Mx	-.000991	5.5
22	MP3C	X	1.256	6.5
23	MP3C	Z	0	6.5
24	MP3C	Mx	-.000991	6.5
25	MP4A	X	1.769	2.62
26	MP4A	Z	0	2.62
27	MP4A	Mx	-.002	2.62
28	MP4A	X	1.769	4.55
29	MP4A	Z	0	4.55
30	MP4A	Mx	-.002	4.55
31	MP4B	X	4.296	2.62
32	MP4B	Z	0	2.62
33	MP4B	Mx	.002	2.62
34	MP4B	X	4.296	4.55
35	MP4B	Z	0	4.55
36	MP4B	Mx	.002	4.55
37	MP4C	X	4.296	2.62
38	MP4C	Z	0	2.62
39	MP4C	Mx	.002	2.62
40	MP4C	X	4.296	4.55
41	MP4C	Z	0	4.55
42	MP4C	Mx	.002	4.55
43	MP3A	X	8.913	1.33
44	MP3A	Z	0	1.33
45	MP3A	Mx	-.009	1.33
46	MP3A	X	8.913	5.83
47	MP3A	Z	0	5.83
48	MP3A	Mx	-.009	5.83
49	MP3B	X	10.22	1.33
50	MP3B	Z	0	1.33
51	MP3B	Mx	-5.3e-5	1.33
52	MP3B	X	10.22	5.83
53	MP3B	Z	0	5.83
54	MP3B	Mx	-5.3e-5	5.83
55	MP3C	X	10.22	1.33
56	MP3C	Z	0	1.33
57	MP3C	Mx	.01	1.33
58	MP3C	X	10.22	5.83
59	MP3C	Z	0	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	.01	5.83
61	MP3A	X	8.913	1.33
62	MP3A	Z	0	1.33
63	MP3A	Mx	-.009	1.33
64	MP3A	X	8.913	5.83
65	MP3A	Z	0	5.83
66	MP3A	Mx	-.009	5.83
67	MP3B	X	10.22	1.33
68	MP3B	Z	0	1.33
69	MP3B	Mx	.01	1.33
70	MP3B	X	10.22	5.83
71	MP3B	Z	0	5.83
72	MP3B	Mx	.01	5.83
73	MP3C	X	10.22	1.33
74	MP3C	Z	0	1.33
75	MP3C	Mx	-5.3e-5	1.33
76	MP3C	X	10.22	5.83
77	MP3C	Z	0	5.83
78	MP3C	Mx	-5.3e-5	5.83
79	MP1A	X	.229	3.07
80	MP1A	Z	0	3.07
81	MP1A	Mx	-.000153	3.07
82	MP1A	X	.229	4.1
83	MP1A	Z	0	4.1
84	MP1A	Mx	-.000153	4.1
85	MP1B	X	.932	3.07
86	MP1B	Z	0	3.07
87	MP1B	Mx	.000311	3.07
88	MP1B	X	.932	4.1
89	MP1B	Z	0	4.1
90	MP1B	Mx	.000311	4.1
91	MP1C	X	.932	3.07
92	MP1C	Z	0	3.07
93	MP1C	Mx	.000311	3.07
94	MP1C	X	.932	4.1
95	MP1C	Z	0	4.1
96	MP1C	Mx	.000311	4.1
97	MP2A	X	1.363	3.42
98	MP2A	Z	0	3.42
99	MP2A	Mx	.001	3.42
100	MP2A	X	1.363	3.42
101	MP2A	Z	0	3.42
102	MP2A	Mx	.001	3.42
103	MP2B	X	1.864	3.42
104	MP2B	Z	0	3.42
105	MP2B	Mx	-.000777	3.42
106	MP2B	X	1.864	3.42
107	MP2B	Z	0	3.42
108	MP2B	Mx	-.000777	3.42
109	MP2C	X	1.864	3.42
110	MP2C	Z	0	3.42
111	MP2C	Mx	-.000777	3.42
112	MP2C	X	1.864	3.42
113	MP2C	Z	0	3.42
114	MP2C	Mx	-.000777	3.42
115	MP3A	X	1.114	3.42
116	MP3A	Z	0	3.42
117	MP3A	Mx	.000928	3.42
118	MP3A	X	1.114	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	0	3.42
120	MP3A	Mx	.000928	3.42
121	MP3B	X	1.802	3.42
122	MP3B	Z	0	3.42
123	MP3B	Mx	-.000751	3.42
124	MP3B	X	1.802	3.42
125	MP3B	Z	0	3.42
126	MP3B	Mx	-.000751	3.42
127	MP3C	X	1.802	3.42
128	MP3C	Z	0	3.42
129	MP3C	Mx	-.000751	3.42
130	MP3C	X	1.802	3.42
131	MP3C	Z	0	3.42
132	MP3C	Mx	-.000751	3.42
133	OVPB	X	3.906	1.5
134	OVPB	Z	0	1.5
135	OVPB	Mx	.002	1.5
136	OVPB	X	3.906	1.5
137	OVPB	Z	0	1.5
138	OVPB	Mx	.002	1.5
139	OVPC	X	4.155	1.5
140	OVPC	Z	0	1.5
141	OVPC	Mx	0	1.5
142	OVPC	X	4.155	1.5
143	OVPC	Z	0	1.5
144	OVPC	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	1.089	5.5
2	MP3A	Z	.629	5.5
3	MP3A	Mx	.001	5.5
4	MP3A	X	1.089	6.5
5	MP3A	Z	.629	6.5
6	MP3A	Mx	.001	6.5
7	MP3C	X	1.089	5.5
8	MP3C	Z	.629	5.5
9	MP3C	Mx	-.00088	5.5
10	MP3C	X	1.089	6.5
11	MP3C	Z	.629	6.5
12	MP3C	Mx	-.00088	6.5
13	MP3A	X	1.089	5.5
14	MP3A	Z	.629	5.5
15	MP3A	Mx	.000879	5.5
16	MP3A	X	1.089	6.5
17	MP3A	Z	.629	6.5
18	MP3A	Mx	.000879	6.5
19	MP3C	X	1.089	5.5
20	MP3C	Z	.629	5.5
21	MP3C	Mx	-.001	5.5
22	MP3C	X	1.089	6.5
23	MP3C	Z	.629	6.5
24	MP3C	Mx	-.001	6.5
25	MP4A	X	2.262	2.62
26	MP4A	Z	1.306	2.62
27	MP4A	Mx	-.002	2.62
28	MP4A	X	2.262	4.55
29	MP4A	Z	1.306	4.55



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	-.002	4.55
31	MP4B	X	4.45	2.62
32	MP4B	Z	2.569	2.62
33	MP4B	Mx	0	2.62
34	MP4B	X	4.45	4.55
35	MP4B	Z	2.569	4.55
36	MP4B	Mx	0	4.55
37	MP4C	X	2.262	2.62
38	MP4C	Z	1.306	2.62
39	MP4C	Mx	.002	2.62
40	MP4C	X	2.262	4.55
41	MP4C	Z	1.306	4.55
42	MP4C	Mx	.002	4.55
43	MP3A	X	8.096	1.33
44	MP3A	Z	4.674	1.33
45	MP3A	Mx	-.005	1.33
46	MP3A	X	8.096	5.83
47	MP3A	Z	4.674	5.83
48	MP3A	Mx	-.005	5.83
49	MP3B	X	9.228	1.33
50	MP3B	Z	5.328	1.33
51	MP3B	Mx	-.006	1.33
52	MP3B	X	9.228	5.83
53	MP3B	Z	5.328	5.83
54	MP3B	Mx	-.006	5.83
55	MP3C	X	8.096	1.33
56	MP3C	Z	4.674	1.33
57	MP3C	Mx	.011	1.33
58	MP3C	X	8.096	5.83
59	MP3C	Z	4.674	5.83
60	MP3C	Mx	.011	5.83
61	MP3A	X	8.096	1.33
62	MP3A	Z	4.674	1.33
63	MP3A	Mx	-.011	1.33
64	MP3A	X	8.096	5.83
65	MP3A	Z	4.674	5.83
66	MP3A	Mx	-.011	5.83
67	MP3B	X	9.228	1.33
68	MP3B	Z	5.328	1.33
69	MP3B	Mx	.006	1.33
70	MP3B	X	9.228	5.83
71	MP3B	Z	5.328	5.83
72	MP3B	Mx	.006	5.83
73	MP3C	X	8.096	1.33
74	MP3C	Z	4.674	1.33
75	MP3C	Mx	.005	1.33
76	MP3C	X	8.096	5.83
77	MP3C	Z	4.674	5.83
78	MP3C	Mx	.005	5.83
79	MP1A	X	.401	3.07
80	MP1A	Z	.232	3.07
81	MP1A	Mx	-.000267	3.07
82	MP1A	X	.401	4.1
83	MP1A	Z	.232	4.1
84	MP1A	Mx	-.000267	4.1
85	MP1B	X	1.01	3.07
86	MP1B	Z	.583	3.07
87	MP1B	Mx	0	3.07
88	MP1B	X	1.01	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	.583	4.1
90	MP1B	Mx	0	4.1
91	MP1C	X	.401	3.07
92	MP1C	Z	.232	3.07
93	MP1C	Mx	.000268	3.07
94	MP1C	X	.401	4.1
95	MP1C	Z	.232	4.1
96	MP1C	Mx	.000268	4.1
97	MP2A	X	1.325	3.42
98	MP2A	Z	.765	3.42
99	MP2A	Mx	.001	3.42
100	MP2A	X	1.325	3.42
101	MP2A	Z	.765	3.42
102	MP2A	Mx	.001	3.42
103	MP2B	X	1.759	3.42
104	MP2B	Z	1.016	3.42
105	MP2B	Mx	0	3.42
106	MP2B	X	1.759	3.42
107	MP2B	Z	1.016	3.42
108	MP2B	Mx	0	3.42
109	MP2C	X	1.325	3.42
110	MP2C	Z	.765	3.42
111	MP2C	Mx	-.001	3.42
112	MP2C	X	1.325	3.42
113	MP2C	Z	.765	3.42
114	MP2C	Mx	-.001	3.42
115	MP3A	X	1.163	3.42
116	MP3A	Z	.672	3.42
117	MP3A	Mx	.000969	3.42
118	MP3A	X	1.163	3.42
119	MP3A	Z	.672	3.42
120	MP3A	Mx	.000969	3.42
121	MP3B	X	1.759	3.42
122	MP3B	Z	1.016	3.42
123	MP3B	Mx	0	3.42
124	MP3B	X	1.759	3.42
125	MP3B	Z	1.016	3.42
126	MP3B	Mx	0	3.42
127	MP3C	X	1.163	3.42
128	MP3C	Z	.672	3.42
129	MP3C	Mx	-.00097	3.42
130	MP3C	X	1.163	3.42
131	MP3C	Z	.672	3.42
132	MP3C	Mx	-.00097	3.42
133	OVPB	X	3.598	1.5
134	OVPB	Z	2.077	1.5
135	OVPB	Mx	0	1.5
136	OVPB	X	3.598	1.5
137	OVPB	Z	2.077	1.5
138	OVPB	Mx	0	1.5
139	OVPC	X	3.383	1.5
140	OVPC	Z	1.953	1.5
141	OVPC	Mx	.002	1.5
142	OVPC	X	3.383	1.5
143	OVPC	Z	1.953	1.5
144	OVPC	Mx	.002	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	.628	5.5
2	MP3A	Z	1.088	5.5
3	MP3A	Mx	.000991	5.5
4	MP3A	X	.628	6.5
5	MP3A	Z	1.088	6.5
6	MP3A	Mx	.000991	6.5
7	MP3C	X	.629	5.5
8	MP3C	Z	1.09	5.5
9	MP3C	Mx	-.001	5.5
10	MP3C	X	.629	6.5
11	MP3C	Z	1.09	6.5
12	MP3C	Mx	-.001	6.5
13	MP3A	X	.628	5.5
14	MP3A	Z	1.088	5.5
15	MP3A	Mx	.000265	5.5
16	MP3A	X	.628	6.5
17	MP3A	Z	1.088	6.5
18	MP3A	Mx	.000265	6.5
19	MP3C	X	.629	5.5
20	MP3C	Z	1.09	5.5
21	MP3C	Mx	-.001	5.5
22	MP3C	X	.629	6.5
23	MP3C	Z	1.09	6.5
24	MP3C	Mx	-.001	6.5
25	MP4A	X	2.148	2.62
26	MP4A	Z	3.72	2.62
27	MP4A	Mx	-.002	2.62
28	MP4A	X	2.148	4.55
29	MP4A	Z	3.72	4.55
30	MP4A	Mx	-.002	4.55
31	MP4B	X	2.148	2.62
32	MP4B	Z	3.72	2.62
33	MP4B	Mx	-.002	2.62
34	MP4B	X	2.148	4.55
35	MP4B	Z	3.72	4.55
36	MP4B	Mx	-.002	4.55
37	MP4C	X	.885	2.62
38	MP4C	Z	1.532	2.62
39	MP4C	Mx	.002	2.62
40	MP4C	X	.885	4.55
41	MP4C	Z	1.532	4.55
42	MP4C	Mx	.002	4.55
43	MP3A	X	5.11	1.33
44	MP3A	Z	8.851	1.33
45	MP3A	Mx	5.3e-5	1.33
46	MP3A	X	5.11	5.83
47	MP3A	Z	8.851	5.83
48	MP3A	Mx	5.3e-5	5.83
49	MP3B	X	5.11	1.33
50	MP3B	Z	8.851	1.33
51	MP3B	Mx	-.01	1.33
52	MP3B	X	5.11	5.83
53	MP3B	Z	8.851	5.83
54	MP3B	Mx	-.01	5.83
55	MP3C	X	4.456	1.33
56	MP3C	Z	7.719	1.33
57	MP3C	Mx	.009	1.33
58	MP3C	X	4.456	5.83
59	MP3C	Z	7.719	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	.009	5.83
61	MP3A	X	5.11	1.33
62	MP3A	Z	8.851	1.33
63	MP3A	Mx	-.01	1.33
64	MP3A	X	5.11	5.83
65	MP3A	Z	8.851	5.83
66	MP3A	Mx	-.01	5.83
67	MP3B	X	5.11	1.33
68	MP3B	Z	8.851	1.33
69	MP3B	Mx	5.3e-5	1.33
70	MP3B	X	5.11	5.83
71	MP3B	Z	8.851	5.83
72	MP3B	Mx	5.3e-5	5.83
73	MP3C	X	4.456	1.33
74	MP3C	Z	7.719	1.33
75	MP3C	Mx	.009	1.33
76	MP3C	X	4.456	5.83
77	MP3C	Z	7.719	5.83
78	MP3C	Mx	.009	5.83
79	MP1A	X	.466	3.07
80	MP1A	Z	.807	3.07
81	MP1A	Mx	-.000311	3.07
82	MP1A	X	.466	4.1
83	MP1A	Z	.807	4.1
84	MP1A	Mx	-.000311	4.1
85	MP1B	X	.466	3.07
86	MP1B	Z	.807	3.07
87	MP1B	Mx	-.000311	3.07
88	MP1B	X	.466	4.1
89	MP1B	Z	.807	4.1
90	MP1B	Mx	-.000311	4.1
91	MP1C	X	.114	3.07
92	MP1C	Z	.198	3.07
93	MP1C	Mx	.000152	3.07
94	MP1C	X	.114	4.1
95	MP1C	Z	.198	4.1
96	MP1C	Mx	.000152	4.1
97	MP2A	X	.932	3.42
98	MP2A	Z	1.615	3.42
99	MP2A	Mx	.000777	3.42
100	MP2A	X	.932	3.42
101	MP2A	Z	1.615	3.42
102	MP2A	Mx	.000777	3.42
103	MP2B	X	.932	3.42
104	MP2B	Z	1.615	3.42
105	MP2B	Mx	.000777	3.42
106	MP2B	X	.932	3.42
107	MP2B	Z	1.615	3.42
108	MP2B	Mx	.000777	3.42
109	MP2C	X	.682	3.42
110	MP2C	Z	1.18	3.42
111	MP2C	Mx	-.001	3.42
112	MP2C	X	.682	3.42
113	MP2C	Z	1.18	3.42
114	MP2C	Mx	-.001	3.42
115	MP3A	X	.901	3.42
116	MP3A	Z	1.561	3.42
117	MP3A	Mx	.000751	3.42
118	MP3A	X	.901	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	1.561	3.42
120	MP3A	Mx	.000751	3.42
121	MP3B	X	.901	3.42
122	MP3B	Z	1.561	3.42
123	MP3B	Mx	.000751	3.42
124	MP3B	X	.901	3.42
125	MP3B	Z	1.561	3.42
126	MP3B	Mx	.000751	3.42
127	MP3C	X	.557	3.42
128	MP3C	Z	.965	3.42
129	MP3C	Mx	-.000929	3.42
130	MP3C	X	.557	3.42
131	MP3C	Z	.965	3.42
132	MP3C	Mx	-.000929	3.42
133	OVPB	X	1.953	1.5
134	OVPB	Z	3.383	1.5
135	OVPB	Mx	-.002	1.5
136	OVPB	X	1.953	1.5
137	OVPB	Z	3.383	1.5
138	OVPB	Mx	-.002	1.5
139	OVPC	X	1.704	1.5
140	OVPC	Z	2.951	1.5
141	OVPC	Mx	.002	1.5
142	OVPC	X	1.704	1.5
143	OVPC	Z	2.951	1.5
144	OVPC	Mx	.002	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	5.5
2	MP3A	Z	1.255	5.5
3	MP3A	Mx	.000418	5.5
4	MP3A	X	0	6.5
5	MP3A	Z	1.255	6.5
6	MP3A	Mx	.000418	6.5
7	MP3C	X	0	5.5
8	MP3C	Z	1.258	5.5
9	MP3C	Mx	-.001	5.5
10	MP3C	X	0	6.5
11	MP3C	Z	1.258	6.5
12	MP3C	Mx	-.001	6.5
13	MP3A	X	0	5.5
14	MP3A	Z	1.255	5.5
15	MP3A	Mx	-.000418	5.5
16	MP3A	X	0	6.5
17	MP3A	Z	1.255	6.5
18	MP3A	Mx	-.000418	6.5
19	MP3C	X	0	5.5
20	MP3C	Z	1.258	5.5
21	MP3C	Mx	-.00088	5.5
22	MP3C	X	0	6.5
23	MP3C	Z	1.258	6.5
24	MP3C	Mx	-.00088	6.5
25	MP4A	X	0	2.62
26	MP4A	Z	5.138	2.62
27	MP4A	Mx	0	2.62
28	MP4A	X	0	4.55
29	MP4A	Z	5.138	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	0	4.55
31	MP4B	X	0	2.62
32	MP4B	Z	2.612	2.62
33	MP4B	Mx	-.002	2.62
34	MP4B	X	0	4.55
35	MP4B	Z	2.612	4.55
36	MP4B	Mx	-.002	4.55
37	MP4C	X	0	2.62
38	MP4C	Z	2.612	2.62
39	MP4C	Mx	.002	2.62
40	MP4C	X	0	4.55
41	MP4C	Z	2.612	4.55
42	MP4C	Mx	.002	4.55
43	MP3A	X	0	1.33
44	MP3A	Z	10.656	1.33
45	MP3A	Mx	.006	1.33
46	MP3A	X	0	5.83
47	MP3A	Z	10.656	5.83
48	MP3A	Mx	.006	5.83
49	MP3B	X	0	1.33
50	MP3B	Z	9.348	1.33
51	MP3B	Mx	-.011	1.33
52	MP3B	X	0	5.83
53	MP3B	Z	9.348	5.83
54	MP3B	Mx	-.011	5.83
55	MP3C	X	0	1.33
56	MP3C	Z	9.348	1.33
57	MP3C	Mx	.005	1.33
58	MP3C	X	0	5.83
59	MP3C	Z	9.348	5.83
60	MP3C	Mx	.005	5.83
61	MP3A	X	0	1.33
62	MP3A	Z	10.656	1.33
63	MP3A	Mx	-.006	1.33
64	MP3A	X	0	5.83
65	MP3A	Z	10.656	5.83
66	MP3A	Mx	-.006	5.83
67	MP3B	X	0	1.33
68	MP3B	Z	9.348	1.33
69	MP3B	Mx	-.005	1.33
70	MP3B	X	0	5.83
71	MP3B	Z	9.348	5.83
72	MP3B	Mx	-.005	5.83
73	MP3C	X	0	1.33
74	MP3C	Z	9.348	1.33
75	MP3C	Mx	.011	1.33
76	MP3C	X	0	5.83
77	MP3C	Z	9.348	5.83
78	MP3C	Mx	.011	5.83
79	MP1A	X	0	3.07
80	MP1A	Z	1.167	3.07
81	MP1A	Mx	0	3.07
82	MP1A	X	0	4.1
83	MP1A	Z	1.167	4.1
84	MP1A	Mx	0	4.1
85	MP1B	X	0	3.07
86	MP1B	Z	.463	3.07
87	MP1B	Mx	-.000267	3.07
88	MP1B	X	0	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	.463	4.1
90	MP1B	Mx	-.000267	4.1
91	MP1C	X	0	3.07
92	MP1C	Z	.463	3.07
93	MP1C	Mx	.000267	3.07
94	MP1C	X	0	4.1
95	MP1C	Z	.463	4.1
96	MP1C	Mx	.000267	4.1
97	MP2A	X	0	3.42
98	MP2A	Z	2.032	3.42
99	MP2A	Mx	0	3.42
100	MP2A	X	0	3.42
101	MP2A	Z	2.032	3.42
102	MP2A	Mx	0	3.42
103	MP2B	X	0	3.42
104	MP2B	Z	1.53	3.42
105	MP2B	Mx	.001	3.42
106	MP2B	X	0	3.42
107	MP2B	Z	1.53	3.42
108	MP2B	Mx	.001	3.42
109	MP2C	X	0	3.42
110	MP2C	Z	1.53	3.42
111	MP2C	Mx	-.001	3.42
112	MP2C	X	0	3.42
113	MP2C	Z	1.53	3.42
114	MP2C	Mx	-.001	3.42
115	MP3A	X	0	3.42
116	MP3A	Z	2.032	3.42
117	MP3A	Mx	0	3.42
118	MP3A	X	0	3.42
119	MP3A	Z	2.032	3.42
120	MP3A	Mx	0	3.42
121	MP3B	X	0	3.42
122	MP3B	Z	1.343	3.42
123	MP3B	Mx	.000969	3.42
124	MP3B	X	0	3.42
125	MP3B	Z	1.343	3.42
126	MP3B	Mx	.000969	3.42
127	MP3C	X	0	3.42
128	MP3C	Z	1.343	3.42
129	MP3C	Mx	-.000969	3.42
130	MP3C	X	0	3.42
131	MP3C	Z	1.343	3.42
132	MP3C	Mx	-.000969	3.42
133	OVPB	X	0	1.5
134	OVPB	Z	3.408	1.5
135	OVPB	Mx	-.002	1.5
136	OVPB	X	0	1.5
137	OVPB	Z	3.408	1.5
138	OVPB	Mx	-.002	1.5
139	OVPC	X	0	1.5
140	OVPC	Z	3.159	1.5
141	OVPC	Mx	.003	1.5
142	OVPC	X	0	1.5
143	OVPC	Z	3.159	1.5
144	OVPC	Mx	.003	1.5

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-.628	5.5
2	MP3A	Z	1.088	5.5
3	MP3A	Mx	-.000265	5.5
4	MP3A	X	-.628	6.5
5	MP3A	Z	1.088	6.5
6	MP3A	Mx	-.000265	6.5
7	MP3C	X	-.628	5.5
8	MP3C	Z	1.088	5.5
9	MP3C	Mx	-.000991	5.5
10	MP3C	X	-.628	6.5
11	MP3C	Z	1.088	6.5
12	MP3C	Mx	-.000991	6.5
13	MP3A	X	-.628	5.5
14	MP3A	Z	1.088	5.5
15	MP3A	Mx	-.000991	5.5
16	MP3A	X	-.628	6.5
17	MP3A	Z	1.088	6.5
18	MP3A	Mx	-.000991	6.5
19	MP3C	X	-.628	5.5
20	MP3C	Z	1.088	5.5
21	MP3C	Mx	-.000266	5.5
22	MP3C	X	-.628	6.5
23	MP3C	Z	1.088	6.5
24	MP3C	Mx	-.000266	6.5
25	MP4A	X	-2.148	2.62
26	MP4A	Z	3.72	2.62
27	MP4A	Mx	.002	2.62
28	MP4A	X	-2.148	4.55
29	MP4A	Z	3.72	4.55
30	MP4A	Mx	.002	4.55
31	MP4B	X	-.885	2.62
32	MP4B	Z	1.532	2.62
33	MP4B	Mx	-.002	2.62
34	MP4B	X	-.885	4.55
35	MP4B	Z	1.532	4.55
36	MP4B	Mx	-.002	4.55
37	MP4C	X	-2.148	2.62
38	MP4C	Z	3.72	2.62
39	MP4C	Mx	.002	2.62
40	MP4C	X	-2.148	4.55
41	MP4C	Z	3.72	4.55
42	MP4C	Mx	.002	4.55
43	MP3A	X	-5.11	1.33
44	MP3A	Z	8.851	1.33
45	MP3A	Mx	.01	1.33
46	MP3A	X	-5.11	5.83
47	MP3A	Z	8.851	5.83
48	MP3A	Mx	.01	5.83
49	MP3B	X	-4.456	1.33
50	MP3B	Z	7.719	1.33
51	MP3B	Mx	-.009	1.33
52	MP3B	X	-4.456	5.83
53	MP3B	Z	7.719	5.83
54	MP3B	Mx	-.009	5.83
55	MP3C	X	-5.11	1.33
56	MP3C	Z	8.851	1.33
57	MP3C	Mx	-5.3e-5	1.33
58	MP3C	X	-5.11	5.83
59	MP3C	Z	8.851	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-5.3e-5	5.83
61	MP3A	X	-5.11	1.33
62	MP3A	Z	8.851	1.33
63	MP3A	Mx	-5.3e-5	1.33
64	MP3A	X	-5.11	5.83
65	MP3A	Z	8.851	5.83
66	MP3A	Mx	-5.3e-5	5.83
67	MP3B	X	-4.456	1.33
68	MP3B	Z	7.719	1.33
69	MP3B	Mx	-.009	1.33
70	MP3B	X	-4.456	5.83
71	MP3B	Z	7.719	5.83
72	MP3B	Mx	-.009	5.83
73	MP3C	X	-5.11	1.33
74	MP3C	Z	8.851	1.33
75	MP3C	Mx	.01	1.33
76	MP3C	X	-5.11	5.83
77	MP3C	Z	8.851	5.83
78	MP3C	Mx	.01	5.83
79	MP1A	X	-.466	3.07
80	MP1A	Z	.807	3.07
81	MP1A	Mx	.000311	3.07
82	MP1A	X	-.466	4.1
83	MP1A	Z	.807	4.1
84	MP1A	Mx	.000311	4.1
85	MP1B	X	-.114	3.07
86	MP1B	Z	.198	3.07
87	MP1B	Mx	-.000152	3.07
88	MP1B	X	-.114	4.1
89	MP1B	Z	.198	4.1
90	MP1B	Mx	-.000152	4.1
91	MP1C	X	-.466	3.07
92	MP1C	Z	.807	3.07
93	MP1C	Mx	.000311	3.07
94	MP1C	X	-.466	4.1
95	MP1C	Z	.807	4.1
96	MP1C	Mx	.000311	4.1
97	MP2A	X	-.932	3.42
98	MP2A	Z	1.615	3.42
99	MP2A	Mx	-.000777	3.42
100	MP2A	X	-.932	3.42
101	MP2A	Z	1.615	3.42
102	MP2A	Mx	-.000777	3.42
103	MP2B	X	-.682	3.42
104	MP2B	Z	1.18	3.42
105	MP2B	Mx	.001	3.42
106	MP2B	X	-.682	3.42
107	MP2B	Z	1.18	3.42
108	MP2B	Mx	.001	3.42
109	MP2C	X	-.932	3.42
110	MP2C	Z	1.615	3.42
111	MP2C	Mx	-.000777	3.42
112	MP2C	X	-.932	3.42
113	MP2C	Z	1.615	3.42
114	MP2C	Mx	-.000777	3.42
115	MP3A	X	-.901	3.42
116	MP3A	Z	1.561	3.42
117	MP3A	Mx	-.000751	3.42
118	MP3A	X	-.901	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	1.561	3.42
120	MP3A	Mx	-.000751	3.42
121	MP3B	X	-.557	3.42
122	MP3B	Z	.965	3.42
123	MP3B	Mx	.000929	3.42
124	MP3B	X	-.557	3.42
125	MP3B	Z	.965	3.42
126	MP3B	Mx	.000929	3.42
127	MP3C	X	-.901	3.42
128	MP3C	Z	1.561	3.42
129	MP3C	Mx	-.000751	3.42
130	MP3C	X	-.901	3.42
131	MP3C	Z	1.561	3.42
132	MP3C	Mx	-.000751	3.42
133	OVPB	X	-1.579	1.5
134	OVPB	Z	2.736	1.5
135	OVPB	Mx	-.003	1.5
136	OVPB	X	-1.579	1.5
137	OVPB	Z	2.736	1.5
138	OVPB	Mx	-.003	1.5
139	OVPC	X	-1.704	1.5
140	OVPC	Z	2.951	1.5
141	OVPC	Mx	.002	1.5
142	OVPC	X	-1.704	1.5
143	OVPC	Z	2.951	1.5
144	OVPC	Mx	.002	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.089	5.5
2	MP3A	Z	.629	5.5
3	MP3A	Mx	-.000879	5.5
4	MP3A	X	-1.089	6.5
5	MP3A	Z	.629	6.5
6	MP3A	Mx	-.000879	6.5
7	MP3C	X	-1.087	5.5
8	MP3C	Z	.628	5.5
9	MP3C	Mx	-.000419	5.5
10	MP3C	X	-1.087	6.5
11	MP3C	Z	.628	6.5
12	MP3C	Mx	-.000419	6.5
13	MP3A	X	-1.089	5.5
14	MP3A	Z	.629	5.5
15	MP3A	Mx	-.001	5.5
16	MP3A	X	-1.089	6.5
17	MP3A	Z	.629	6.5
18	MP3A	Mx	-.001	6.5
19	MP3C	X	-1.087	5.5
20	MP3C	Z	.628	5.5
21	MP3C	Mx	.000418	5.5
22	MP3C	X	-1.087	6.5
23	MP3C	Z	.628	6.5
24	MP3C	Mx	.000418	6.5
25	MP4A	X	-2.262	2.62
26	MP4A	Z	1.306	2.62
27	MP4A	Mx	.002	2.62
28	MP4A	X	-2.262	4.55
29	MP4A	Z	1.306	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	.002	4.55
31	MP4B	X	-2.262	2.62
32	MP4B	Z	1.306	2.62
33	MP4B	Mx	-.002	2.62
34	MP4B	X	-2.262	4.55
35	MP4B	Z	1.306	4.55
36	MP4B	Mx	-.002	4.55
37	MP4C	X	-4.45	2.62
38	MP4C	Z	2.569	2.62
39	MP4C	Mx	0	2.62
40	MP4C	X	-4.45	4.55
41	MP4C	Z	2.569	4.55
42	MP4C	Mx	0	4.55
43	MP3A	X	-8.096	1.33
44	MP3A	Z	4.674	1.33
45	MP3A	Mx	.011	1.33
46	MP3A	X	-8.096	5.83
47	MP3A	Z	4.674	5.83
48	MP3A	Mx	.011	5.83
49	MP3B	X	-8.096	1.33
50	MP3B	Z	4.674	1.33
51	MP3B	Mx	-.005	1.33
52	MP3B	X	-8.096	5.83
53	MP3B	Z	4.674	5.83
54	MP3B	Mx	-.005	5.83
55	MP3C	X	-9.228	1.33
56	MP3C	Z	5.328	1.33
57	MP3C	Mx	-.006	1.33
58	MP3C	X	-9.228	5.83
59	MP3C	Z	5.328	5.83
60	MP3C	Mx	-.006	5.83
61	MP3A	X	-8.096	1.33
62	MP3A	Z	4.674	1.33
63	MP3A	Mx	.005	1.33
64	MP3A	X	-8.096	5.83
65	MP3A	Z	4.674	5.83
66	MP3A	Mx	.005	5.83
67	MP3B	X	-8.096	1.33
68	MP3B	Z	4.674	1.33
69	MP3B	Mx	-.011	1.33
70	MP3B	X	-8.096	5.83
71	MP3B	Z	4.674	5.83
72	MP3B	Mx	-.011	5.83
73	MP3C	X	-9.228	1.33
74	MP3C	Z	5.328	1.33
75	MP3C	Mx	.006	1.33
76	MP3C	X	-9.228	5.83
77	MP3C	Z	5.328	5.83
78	MP3C	Mx	.006	5.83
79	MP1A	X	-.401	3.07
80	MP1A	Z	.232	3.07
81	MP1A	Mx	.000267	3.07
82	MP1A	X	-.401	4.1
83	MP1A	Z	.232	4.1
84	MP1A	Mx	.000267	4.1
85	MP1B	X	-.401	3.07
86	MP1B	Z	.232	3.07
87	MP1B	Mx	-.000268	3.07
88	MP1B	X	-.401	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	.232	4.1
90	MP1B	Mx	-.000268	4.1
91	MP1C	X	-1.01	3.07
92	MP1C	Z	.583	3.07
93	MP1C	Mx	0	3.07
94	MP1C	X	-1.01	4.1
95	MP1C	Z	.583	4.1
96	MP1C	Mx	0	4.1
97	MP2A	X	-1.325	3.42
98	MP2A	Z	.765	3.42
99	MP2A	Mx	-.001	3.42
100	MP2A	X	-1.325	3.42
101	MP2A	Z	.765	3.42
102	MP2A	Mx	-.001	3.42
103	MP2B	X	-1.325	3.42
104	MP2B	Z	.765	3.42
105	MP2B	Mx	.001	3.42
106	MP2B	X	-1.325	3.42
107	MP2B	Z	.765	3.42
108	MP2B	Mx	.001	3.42
109	MP2C	X	-1.759	3.42
110	MP2C	Z	1.016	3.42
111	MP2C	Mx	0	3.42
112	MP2C	X	-1.759	3.42
113	MP2C	Z	1.016	3.42
114	MP2C	Mx	0	3.42
115	MP3A	X	-1.163	3.42
116	MP3A	Z	.672	3.42
117	MP3A	Mx	-.000969	3.42
118	MP3A	X	-1.163	3.42
119	MP3A	Z	.672	3.42
120	MP3A	Mx	-.000969	3.42
121	MP3B	X	-1.163	3.42
122	MP3B	Z	.672	3.42
123	MP3B	Mx	.00097	3.42
124	MP3B	X	-1.163	3.42
125	MP3B	Z	.672	3.42
126	MP3B	Mx	.00097	3.42
127	MP3C	X	-1.759	3.42
128	MP3C	Z	1.016	3.42
129	MP3C	Mx	0	3.42
130	MP3C	X	-1.759	3.42
131	MP3C	Z	1.016	3.42
132	MP3C	Mx	0	3.42
133	OVPB	X	-2.951	1.5
134	OVPB	Z	1.704	1.5
135	OVPB	Mx	-.002	1.5
136	OVPB	X	-2.951	1.5
137	OVPB	Z	1.704	1.5
138	OVPB	Mx	-.002	1.5
139	OVPC	X	-3.383	1.5
140	OVPC	Z	1.953	1.5
141	OVPC	Mx	.002	1.5
142	OVPC	X	-3.383	1.5
143	OVPC	Z	1.953	1.5
144	OVPC	Mx	.002	1.5

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-1.259	5.5
2	MP3A	Z	0	5.5
3	MP3A	Mx	-.001	5.5
4	MP3A	X	-1.259	6.5
5	MP3A	Z	0	6.5
6	MP3A	Mx	-.001	6.5
7	MP3C	X	-1.256	5.5
8	MP3C	Z	0	5.5
9	MP3C	Mx	.000265	5.5
10	MP3C	X	-1.256	6.5
11	MP3C	Z	0	6.5
12	MP3C	Mx	.000265	6.5
13	MP3A	X	-1.259	5.5
14	MP3A	Z	0	5.5
15	MP3A	Mx	-.001	5.5
16	MP3A	X	-1.259	6.5
17	MP3A	Z	0	6.5
18	MP3A	Mx	-.001	6.5
19	MP3C	X	-1.256	5.5
20	MP3C	Z	0	5.5
21	MP3C	Mx	.000991	5.5
22	MP3C	X	-1.256	6.5
23	MP3C	Z	0	6.5
24	MP3C	Mx	.000991	6.5
25	MP4A	X	-1.769	2.62
26	MP4A	Z	0	2.62
27	MP4A	Mx	.002	2.62
28	MP4A	X	-1.769	4.55
29	MP4A	Z	0	4.55
30	MP4A	Mx	.002	4.55
31	MP4B	X	-4.296	2.62
32	MP4B	Z	0	2.62
33	MP4B	Mx	-.002	2.62
34	MP4B	X	-4.296	4.55
35	MP4B	Z	0	4.55
36	MP4B	Mx	-.002	4.55
37	MP4C	X	-4.296	2.62
38	MP4C	Z	0	2.62
39	MP4C	Mx	-.002	2.62
40	MP4C	X	-4.296	4.55
41	MP4C	Z	0	4.55
42	MP4C	Mx	-.002	4.55
43	MP3A	X	-8.913	1.33
44	MP3A	Z	0	1.33
45	MP3A	Mx	.009	1.33
46	MP3A	X	-8.913	5.83
47	MP3A	Z	0	5.83
48	MP3A	Mx	.009	5.83
49	MP3B	X	-10.22	1.33
50	MP3B	Z	0	1.33
51	MP3B	Mx	5.3e-5	1.33
52	MP3B	X	-10.22	5.83
53	MP3B	Z	0	5.83
54	MP3B	Mx	5.3e-5	5.83
55	MP3C	X	-10.22	1.33
56	MP3C	Z	0	1.33
57	MP3C	Mx	-.01	1.33
58	MP3C	X	-10.22	5.83
59	MP3C	Z	0	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-.01	5.83
61	MP3A	X	-8.913	1.33
62	MP3A	Z	0	1.33
63	MP3A	Mx	.009	1.33
64	MP3A	X	-8.913	5.83
65	MP3A	Z	0	5.83
66	MP3A	Mx	.009	5.83
67	MP3B	X	-10.22	1.33
68	MP3B	Z	0	1.33
69	MP3B	Mx	-.01	1.33
70	MP3B	X	-10.22	5.83
71	MP3B	Z	0	5.83
72	MP3B	Mx	-.01	5.83
73	MP3C	X	-10.22	1.33
74	MP3C	Z	0	1.33
75	MP3C	Mx	5.3e-5	1.33
76	MP3C	X	-10.22	5.83
77	MP3C	Z	0	5.83
78	MP3C	Mx	5.3e-5	5.83
79	MP1A	X	-.229	3.07
80	MP1A	Z	0	3.07
81	MP1A	Mx	.000153	3.07
82	MP1A	X	-.229	4.1
83	MP1A	Z	0	4.1
84	MP1A	Mx	.000153	4.1
85	MP1B	X	-.932	3.07
86	MP1B	Z	0	3.07
87	MP1B	Mx	-.000311	3.07
88	MP1B	X	-.932	4.1
89	MP1B	Z	0	4.1
90	MP1B	Mx	-.000311	4.1
91	MP1C	X	-.932	3.07
92	MP1C	Z	0	3.07
93	MP1C	Mx	-.000311	3.07
94	MP1C	X	-.932	4.1
95	MP1C	Z	0	4.1
96	MP1C	Mx	-.000311	4.1
97	MP2A	X	-1.363	3.42
98	MP2A	Z	0	3.42
99	MP2A	Mx	-.001	3.42
100	MP2A	X	-1.363	3.42
101	MP2A	Z	0	3.42
102	MP2A	Mx	-.001	3.42
103	MP2B	X	-1.864	3.42
104	MP2B	Z	0	3.42
105	MP2B	Mx	.000777	3.42
106	MP2B	X	-1.864	3.42
107	MP2B	Z	0	3.42
108	MP2B	Mx	.000777	3.42
109	MP2C	X	-1.864	3.42
110	MP2C	Z	0	3.42
111	MP2C	Mx	.000777	3.42
112	MP2C	X	-1.864	3.42
113	MP2C	Z	0	3.42
114	MP2C	Mx	.000777	3.42
115	MP3A	X	-1.114	3.42
116	MP3A	Z	0	3.42
117	MP3A	Mx	-.000928	3.42
118	MP3A	X	-1.114	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	0	3.42
120	MP3A	Mx	-.000928	3.42
121	MP3B	X	-1.802	3.42
122	MP3B	Z	0	3.42
123	MP3B	Mx	.000751	3.42
124	MP3B	X	-1.802	3.42
125	MP3B	Z	0	3.42
126	MP3B	Mx	.000751	3.42
127	MP3C	X	-1.802	3.42
128	MP3C	Z	0	3.42
129	MP3C	Mx	.000751	3.42
130	MP3C	X	-1.802	3.42
131	MP3C	Z	0	3.42
132	MP3C	Mx	.000751	3.42
133	OVPB	X	-3.906	1.5
134	OVPB	Z	0	1.5
135	OVPB	Mx	-.002	1.5
136	OVPB	X	-3.906	1.5
137	OVPB	Z	0	1.5
138	OVPB	Mx	-.002	1.5
139	OVPC	X	-4.155	1.5
140	OVPC	Z	0	1.5
141	OVPC	Mx	0	1.5
142	OVPC	X	-4.155	1.5
143	OVPC	Z	0	1.5
144	OVPC	Mx	0	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.089	5.5
2	MP3A	Z	-.629	5.5
3	MP3A	Mx	-.001	5.5
4	MP3A	X	-1.089	6.5
5	MP3A	Z	-.629	6.5
6	MP3A	Mx	-.001	6.5
7	MP3C	X	-1.089	5.5
8	MP3C	Z	-.629	5.5
9	MP3C	Mx	.00088	5.5
10	MP3C	X	-1.089	6.5
11	MP3C	Z	-.629	6.5
12	MP3C	Mx	.00088	6.5
13	MP3A	X	-1.089	5.5
14	MP3A	Z	-.629	5.5
15	MP3A	Mx	-.000879	5.5
16	MP3A	X	-1.089	6.5
17	MP3A	Z	-.629	6.5
18	MP3A	Mx	-.000879	6.5
19	MP3C	X	-1.089	5.5
20	MP3C	Z	-.629	5.5
21	MP3C	Mx	.001	5.5
22	MP3C	X	-1.089	6.5
23	MP3C	Z	-.629	6.5
24	MP3C	Mx	.001	6.5
25	MP4A	X	-2.262	2.62
26	MP4A	Z	-1.306	2.62
27	MP4A	Mx	.002	2.62
28	MP4A	X	-2.262	4.55
29	MP4A	Z	-1.306	4.55

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP4A	Mx	.002	4.55
31	MP4B	X	-4.45	2.62
32	MP4B	Z	-2.569	2.62
33	MP4B	Mx	0	2.62
34	MP4B	X	-4.45	4.55
35	MP4B	Z	-2.569	4.55
36	MP4B	Mx	0	4.55
37	MP4C	X	-2.262	2.62
38	MP4C	Z	-1.306	2.62
39	MP4C	Mx	-.002	2.62
40	MP4C	X	-2.262	4.55
41	MP4C	Z	-1.306	4.55
42	MP4C	Mx	-.002	4.55
43	MP3A	X	-8.096	1.33
44	MP3A	Z	-4.674	1.33
45	MP3A	Mx	.005	1.33
46	MP3A	X	-8.096	5.83
47	MP3A	Z	-4.674	5.83
48	MP3A	Mx	.005	5.83
49	MP3B	X	-9.228	1.33
50	MP3B	Z	-5.328	1.33
51	MP3B	Mx	.006	1.33
52	MP3B	X	-9.228	5.83
53	MP3B	Z	-5.328	5.83
54	MP3B	Mx	.006	5.83
55	MP3C	X	-8.096	1.33
56	MP3C	Z	-4.674	1.33
57	MP3C	Mx	-.011	1.33
58	MP3C	X	-8.096	5.83
59	MP3C	Z	-4.674	5.83
60	MP3C	Mx	-.011	5.83
61	MP3A	X	-8.096	1.33
62	MP3A	Z	-4.674	1.33
63	MP3A	Mx	.011	1.33
64	MP3A	X	-8.096	5.83
65	MP3A	Z	-4.674	5.83
66	MP3A	Mx	.011	5.83
67	MP3B	X	-9.228	1.33
68	MP3B	Z	-5.328	1.33
69	MP3B	Mx	-.006	1.33
70	MP3B	X	-9.228	5.83
71	MP3B	Z	-5.328	5.83
72	MP3B	Mx	-.006	5.83
73	MP3C	X	-8.096	1.33
74	MP3C	Z	-4.674	1.33
75	MP3C	Mx	-.005	1.33
76	MP3C	X	-8.096	5.83
77	MP3C	Z	-4.674	5.83
78	MP3C	Mx	-.005	5.83
79	MP1A	X	-.401	3.07
80	MP1A	Z	-.232	3.07
81	MP1A	Mx	.000267	3.07
82	MP1A	X	-.401	4.1
83	MP1A	Z	-.232	4.1
84	MP1A	Mx	.000267	4.1
85	MP1B	X	-1.01	3.07
86	MP1B	Z	-.583	3.07
87	MP1B	Mx	0	3.07
88	MP1B	X	-1.01	4.1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
89	MP1B	Z	-583	4.1
90	MP1B	Mx	0	4.1
91	MP1C	X	-401	3.07
92	MP1C	Z	-232	3.07
93	MP1C	Mx	-.000268	3.07
94	MP1C	X	-401	4.1
95	MP1C	Z	-232	4.1
96	MP1C	Mx	-.000268	4.1
97	MP2A	X	-1.325	3.42
98	MP2A	Z	-.765	3.42
99	MP2A	Mx	-.001	3.42
100	MP2A	X	-1.325	3.42
101	MP2A	Z	-.765	3.42
102	MP2A	Mx	-.001	3.42
103	MP2B	X	-1.759	3.42
104	MP2B	Z	-1.016	3.42
105	MP2B	Mx	0	3.42
106	MP2B	X	-1.759	3.42
107	MP2B	Z	-1.016	3.42
108	MP2B	Mx	0	3.42
109	MP2C	X	-1.325	3.42
110	MP2C	Z	-.765	3.42
111	MP2C	Mx	.001	3.42
112	MP2C	X	-1.325	3.42
113	MP2C	Z	-.765	3.42
114	MP2C	Mx	.001	3.42
115	MP3A	X	-1.163	3.42
116	MP3A	Z	-.672	3.42
117	MP3A	Mx	-.000969	3.42
118	MP3A	X	-1.163	3.42
119	MP3A	Z	-.672	3.42
120	MP3A	Mx	-.000969	3.42
121	MP3B	X	-1.759	3.42
122	MP3B	Z	-1.016	3.42
123	MP3B	Mx	0	3.42
124	MP3B	X	-1.759	3.42
125	MP3B	Z	-1.016	3.42
126	MP3B	Mx	0	3.42
127	MP3C	X	-1.163	3.42
128	MP3C	Z	-.672	3.42
129	MP3C	Mx	.00097	3.42
130	MP3C	X	-1.163	3.42
131	MP3C	Z	-.672	3.42
132	MP3C	Mx	.00097	3.42
133	OVPB	X	-3.598	1.5
134	OVPB	Z	-2.077	1.5
135	OVPB	Mx	0	1.5
136	OVPB	X	-3.598	1.5
137	OVPB	Z	-2.077	1.5
138	OVPB	Mx	0	1.5
139	OVPC	X	-3.383	1.5
140	OVPC	Z	-1.953	1.5
141	OVPC	Mx	-.002	1.5
142	OVPC	X	-3.383	1.5
143	OVPC	Z	-1.953	1.5
144	OVPC	Mx	-.002	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	-.628	5.5
2	MP3A	Z	-1.088	5.5
3	MP3A	Mx	-.000991	5.5
4	MP3A	X	-.628	6.5
5	MP3A	Z	-1.088	6.5
6	MP3A	Mx	-.000991	6.5
7	MP3C	X	-.629	5.5
8	MP3C	Z	-1.09	5.5
9	MP3C	Mx	.001	5.5
10	MP3C	X	-.629	6.5
11	MP3C	Z	-1.09	6.5
12	MP3C	Mx	.001	6.5
13	MP3A	X	-.628	5.5
14	MP3A	Z	-1.088	5.5
15	MP3A	Mx	-.000265	5.5
16	MP3A	X	-.628	6.5
17	MP3A	Z	-1.088	6.5
18	MP3A	Mx	-.000265	6.5
19	MP3C	X	-.629	5.5
20	MP3C	Z	-1.09	5.5
21	MP3C	Mx	.001	5.5
22	MP3C	X	-.629	6.5
23	MP3C	Z	-1.09	6.5
24	MP3C	Mx	.001	6.5
25	MP4A	X	-2.148	2.62
26	MP4A	Z	-3.72	2.62
27	MP4A	Mx	.002	2.62
28	MP4A	X	-2.148	4.55
29	MP4A	Z	-3.72	4.55
30	MP4A	Mx	.002	4.55
31	MP4B	X	-2.148	2.62
32	MP4B	Z	-3.72	2.62
33	MP4B	Mx	.002	2.62
34	MP4B	X	-2.148	4.55
35	MP4B	Z	-3.72	4.55
36	MP4B	Mx	.002	4.55
37	MP4C	X	-.885	2.62
38	MP4C	Z	-1.532	2.62
39	MP4C	Mx	-.002	2.62
40	MP4C	X	-.885	4.55
41	MP4C	Z	-1.532	4.55
42	MP4C	Mx	-.002	4.55
43	MP3A	X	-5.11	1.33
44	MP3A	Z	-8.851	1.33
45	MP3A	Mx	-5.3e-5	1.33
46	MP3A	X	-5.11	5.83
47	MP3A	Z	-8.851	5.83
48	MP3A	Mx	-5.3e-5	5.83
49	MP3B	X	-5.11	1.33
50	MP3B	Z	-8.851	1.33
51	MP3B	Mx	.01	1.33
52	MP3B	X	-5.11	5.83
53	MP3B	Z	-8.851	5.83
54	MP3B	Mx	.01	5.83
55	MP3C	X	-4.456	1.33
56	MP3C	Z	-7.719	1.33
57	MP3C	Mx	-.009	1.33
58	MP3C	X	-4.456	5.83
59	MP3C	Z	-7.719	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP3C	Mx	-0.009	5.83
61	MP3A	X	-5.11	1.33
62	MP3A	Z	-8.851	1.33
63	MP3A	Mx	.01	1.33
64	MP3A	X	-5.11	5.83
65	MP3A	Z	-8.851	5.83
66	MP3A	Mx	.01	5.83
67	MP3B	X	-5.11	1.33
68	MP3B	Z	-8.851	1.33
69	MP3B	Mx	-5.3e-5	1.33
70	MP3B	X	-5.11	5.83
71	MP3B	Z	-8.851	5.83
72	MP3B	Mx	-5.3e-5	5.83
73	MP3C	X	-4.456	1.33
74	MP3C	Z	-7.719	1.33
75	MP3C	Mx	-0.009	1.33
76	MP3C	X	-4.456	5.83
77	MP3C	Z	-7.719	5.83
78	MP3C	Mx	-0.009	5.83
79	MP1A	X	-0.466	3.07
80	MP1A	Z	-0.807	3.07
81	MP1A	Mx	.000311	3.07
82	MP1A	X	-0.466	4.1
83	MP1A	Z	-0.807	4.1
84	MP1A	Mx	.000311	4.1
85	MP1B	X	-0.466	3.07
86	MP1B	Z	-0.807	3.07
87	MP1B	Mx	.000311	3.07
88	MP1B	X	-0.466	4.1
89	MP1B	Z	-0.807	4.1
90	MP1B	Mx	.000311	4.1
91	MP1C	X	-0.114	3.07
92	MP1C	Z	-0.198	3.07
93	MP1C	Mx	-0.000152	3.07
94	MP1C	X	-0.114	4.1
95	MP1C	Z	-0.198	4.1
96	MP1C	Mx	-0.000152	4.1
97	MP2A	X	-0.932	3.42
98	MP2A	Z	-1.615	3.42
99	MP2A	Mx	-0.000777	3.42
100	MP2A	X	-0.932	3.42
101	MP2A	Z	-1.615	3.42
102	MP2A	Mx	-0.000777	3.42
103	MP2B	X	-0.932	3.42
104	MP2B	Z	-1.615	3.42
105	MP2B	Mx	-0.000777	3.42
106	MP2B	X	-0.932	3.42
107	MP2B	Z	-1.615	3.42
108	MP2B	Mx	-0.000777	3.42
109	MP2C	X	-0.682	3.42
110	MP2C	Z	-1.18	3.42
111	MP2C	Mx	.001	3.42
112	MP2C	X	-0.682	3.42
113	MP2C	Z	-1.18	3.42
114	MP2C	Mx	.001	3.42
115	MP3A	X	-0.901	3.42
116	MP3A	Z	-1.561	3.42
117	MP3A	Mx	-0.000751	3.42
118	MP3A	X	-0.901	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
119	MP3A	Z	-1.561	3.42
120	MP3A	Mx	-0.000751	3.42
121	MP3B	X	-.901	3.42
122	MP3B	Z	-1.561	3.42
123	MP3B	Mx	-0.000751	3.42
124	MP3B	X	-.901	3.42
125	MP3B	Z	-1.561	3.42
126	MP3B	Mx	-0.000751	3.42
127	MP3C	X	-.557	3.42
128	MP3C	Z	-.965	3.42
129	MP3C	Mx	.000929	3.42
130	MP3C	X	-.557	3.42
131	MP3C	Z	-.965	3.42
132	MP3C	Mx	.000929	3.42
133	OVPB	X	-1.953	1.5
134	OVPB	Z	-3.383	1.5
135	OVPB	Mx	.002	1.5
136	OVPB	X	-1.953	1.5
137	OVPB	Z	-3.383	1.5
138	OVPB	Mx	.002	1.5
139	OVPC	X	-1.704	1.5
140	OVPC	Z	-2.951	1.5
141	OVPC	Mx	-.002	1.5
142	OVPC	X	-1.704	1.5
143	OVPC	Z	-2.951	1.5
144	OVPC	Mx	-.002	1.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M2	Y	-500	%64

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M2	Y	-500	%93

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M2	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M2	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-.436	5.5
2	MP3A	My	.000436	5.5
3	MP3A	Mz	.000145	5.5
4	MP3A	Y	-.436	6.5
5	MP3A	My	.000436	6.5
6	MP3A	Mz	.000145	6.5
7	MP3C	Y	-.436	5.5
8	MP3C	My	-9.2e-5	5.5
9	MP3C	Mz	-.00045	5.5
10	MP3C	Y	-.436	6.5
11	MP3C	My	-9.2e-5	6.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP3C	Mz	-.00045	6.5
13	MP3A	Y	-.436	5.5
14	MP3A	My	.000436	5.5
15	MP3A	Mz	-.000145	5.5
16	MP3A	Y	-.436	6.5
17	MP3A	My	.000436	6.5
18	MP3A	Mz	-.000145	6.5
19	MP3C	Y	-.436	5.5
20	MP3C	My	-.000344	5.5
21	MP3C	Mz	-.000305	5.5
22	MP3C	Y	-.436	6.5
23	MP3C	My	-.000344	6.5
24	MP3C	Mz	-.000305	6.5
25	MP4A	Y	-2.155	2.62
26	MP4A	My	-.002	2.62
27	MP4A	Mz	0	2.62
28	MP4A	Y	-2.155	4.55
29	MP4A	My	-.002	4.55
30	MP4A	Mz	0	4.55
31	MP4B	Y	-2.155	2.62
32	MP4B	My	.001	2.62
33	MP4B	Mz	-.002	2.62
34	MP4B	Y	-2.155	4.55
35	MP4B	My	.001	4.55
36	MP4B	Mz	-.002	4.55
37	MP4C	Y	-2.155	2.62
38	MP4C	My	.001	2.62
39	MP4C	Mz	.002	2.62
40	MP4C	Y	-2.155	4.55
41	MP4C	My	.001	4.55
42	MP4C	Mz	.002	4.55
43	MP3A	Y	-1.609	1.33
44	MP3A	My	-.002	1.33
45	MP3A	Mz	.000938	1.33
46	MP3A	Y	-1.609	5.83
47	MP3A	My	-.002	5.83
48	MP3A	Mz	.000938	5.83
49	MP3B	Y	-1.609	1.33
50	MP3B	My	-8e-6	1.33
51	MP3B	Mz	-.002	1.33
52	MP3B	Y	-1.609	5.83
53	MP3B	My	-8e-6	5.83
54	MP3B	Mz	-.002	5.83
55	MP3C	Y	-1.609	1.33
56	MP3C	My	.002	1.33
57	MP3C	Mz	.000924	1.33
58	MP3C	Y	-1.609	5.83
59	MP3C	My	.002	5.83
60	MP3C	Mz	.000924	5.83
61	MP3A	Y	-1.609	1.33
62	MP3A	My	-.002	1.33
63	MP3A	Mz	-.000938	1.33
64	MP3A	Y	-1.609	5.83
65	MP3A	My	-.002	5.83
66	MP3A	Mz	-.000938	5.83
67	MP3B	Y	-1.609	1.33
68	MP3B	My	.002	1.33
69	MP3B	Mz	-.000924	1.33
70	MP3B	Y	-1.609	5.83

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
71	MP3B	My	.002	5.83
72	MP3B	Mz	-.000924	5.83
73	MP3C	Y	-1.609	1.33
74	MP3C	My	-8e-6	1.33
75	MP3C	Mz	.002	1.33
76	MP3C	Y	-1.609	5.83
77	MP3C	My	-8e-6	5.83
78	MP3C	Mz	.002	5.83
79	MP1A	Y	-.109	3.07
80	MP1A	My	-7.3e-5	3.07
81	MP1A	Mz	0	3.07
82	MP1A	Y	-.109	4.1
83	MP1A	My	-7.3e-5	4.1
84	MP1A	Mz	0	4.1
85	MP1B	Y	-.109	3.07
86	MP1B	My	3.6e-5	3.07
87	MP1B	Mz	-6.3e-5	3.07
88	MP1B	Y	-.109	4.1
89	MP1B	My	3.6e-5	4.1
90	MP1B	Mz	-6.3e-5	4.1
91	MP1C	Y	-.109	3.07
92	MP1C	My	3.6e-5	3.07
93	MP1C	Mz	6.3e-5	3.07
94	MP1C	Y	-.109	4.1
95	MP1C	My	3.6e-5	4.1
96	MP1C	Mz	6.3e-5	4.1
97	MP2A	Y	-2.089	3.42
98	MP2A	My	.002	3.42
99	MP2A	Mz	0	3.42
100	MP2A	Y	-2.089	3.42
101	MP2A	My	.002	3.42
102	MP2A	Mz	0	3.42
103	MP2B	Y	-2.089	3.42
104	MP2B	My	-.00087	3.42
105	MP2B	Mz	.002	3.42
106	MP2B	Y	-2.089	3.42
107	MP2B	My	-.00087	3.42
108	MP2B	Mz	.002	3.42
109	MP2C	Y	-2.089	3.42
110	MP2C	My	-.00087	3.42
111	MP2C	Mz	-.002	3.42
112	MP2C	Y	-2.089	3.42
113	MP2C	My	-.00087	3.42
114	MP2C	Mz	-.002	3.42
115	MP3A	Y	-1.74	3.42
116	MP3A	My	.001	3.42
117	MP3A	Mz	0	3.42
118	MP3A	Y	-1.74	3.42
119	MP3A	My	.001	3.42
120	MP3A	Mz	0	3.42
121	MP3B	Y	-1.74	3.42
122	MP3B	My	-.000725	3.42
123	MP3B	Mz	.001	3.42
124	MP3B	Y	-1.74	3.42
125	MP3B	My	-.000725	3.42
126	MP3B	Mz	.001	3.42
127	MP3C	Y	-1.74	3.42
128	MP3C	My	-.000725	3.42
129	MP3C	Mz	-.001	3.42

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
130	MP3C	Y	-1.74	3.42
131	MP3C	My	-.000725	3.42
132	MP3C	Mz	-.001	3.42
133	OVPB	Y	-.792	1.5
134	OVPB	My	.00033	1.5
135	OVPB	Mz	-.000571	1.5
136	OVPB	Y	-.792	1.5
137	OVPB	My	.00033	1.5
138	OVPB	Mz	-.000571	1.5
139	OVPC	Y	-.792	1.5
140	OVPC	My	0	1.5
141	OVPC	Mz	.00066	1.5
142	OVPC	Y	-.792	1.5
143	OVPC	My	0	1.5
144	OVPC	Mz	.00066	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	Z	-1.089	5.5
2	MP3A	Mx	-.000363	5.5
3	MP3A	Z	-1.089	6.5
4	MP3A	Mx	-.000363	6.5
5	MP3C	Z	-1.089	5.5
6	MP3C	Mx	.001	5.5
7	MP3C	Z	-1.089	6.5
8	MP3C	Mx	.001	6.5
9	MP3A	Z	-1.089	5.5
10	MP3A	Mx	.000363	5.5
11	MP3A	Z	-1.089	6.5
12	MP3A	Mx	.000363	6.5
13	MP3C	Z	-1.089	5.5
14	MP3C	Mx	.000761	5.5
15	MP3C	Z	-1.089	6.5
16	MP3C	Mx	.000761	6.5
17	MP4A	Z	-5.389	2.62
18	MP4A	Mx	0	2.62
19	MP4A	Z	-5.389	4.55
20	MP4A	Mx	0	4.55
21	MP4B	Z	-5.389	2.62
22	MP4B	Mx	.005	2.62
23	MP4B	Z	-5.389	4.55
24	MP4B	Mx	.005	4.55
25	MP4C	Z	-5.389	2.62
26	MP4C	Mx	-.005	2.62
27	MP4C	Z	-5.389	4.55
28	MP4C	Mx	-.005	4.55
29	MP3A	Z	-4.021	1.33
30	MP3A	Mx	-.002	1.33
31	MP3A	Z	-4.021	5.83
32	MP3A	Mx	-.002	5.83
33	MP3B	Z	-4.021	1.33
34	MP3B	Mx	.005	1.33
35	MP3B	Z	-4.021	5.83
36	MP3B	Mx	.005	5.83
37	MP3C	Z	-4.021	1.33
38	MP3C	Mx	-.002	1.33
39	MP3C	Z	-4.021	5.83
40	MP3C	Mx	-.002	5.83



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
41	MP3A	Z	-4.021	1.33
42	MP3A	Mx	.002	1.33
43	MP3A	Z	-4.021	5.83
44	MP3A	Mx	.002	5.83
45	MP3B	Z	-4.021	1.33
46	MP3B	Mx	.002	1.33
47	MP3B	Z	-4.021	5.83
48	MP3B	Mx	.002	5.83
49	MP3C	Z	-4.021	1.33
50	MP3C	Mx	-.005	1.33
51	MP3C	Z	-4.021	5.83
52	MP3C	Mx	-.005	5.83
53	MP1A	Z	-.272	3.07
54	MP1A	Mx	0	3.07
55	MP1A	Z	-.272	4.1
56	MP1A	Mx	0	4.1
57	MP1B	Z	-.272	3.07
58	MP1B	Mx	.000157	3.07
59	MP1B	Z	-.272	4.1
60	MP1B	Mx	.000157	4.1
61	MP1C	Z	-.272	3.07
62	MP1C	Mx	-.000157	3.07
63	MP1C	Z	-.272	4.1
64	MP1C	Mx	-.000157	4.1
65	MP2A	Z	-5.222	3.42
66	MP2A	Mx	0	3.42
67	MP2A	Z	-5.222	3.42
68	MP2A	Mx	0	3.42
69	MP2B	Z	-5.222	3.42
70	MP2B	Mx	-.004	3.42
71	MP2B	Z	-5.222	3.42
72	MP2B	Mx	-.004	3.42
73	MP2C	Z	-5.222	3.42
74	MP2C	Mx	.004	3.42
75	MP2C	Z	-5.222	3.42
76	MP2C	Mx	.004	3.42
77	MP3A	Z	-4.349	3.42
78	MP3A	Mx	0	3.42
79	MP3A	Z	-4.349	3.42
80	MP3A	Mx	0	3.42
81	MP3B	Z	-4.349	3.42
82	MP3B	Mx	-.003	3.42
83	MP3B	Z	-4.349	3.42
84	MP3B	Mx	-.003	3.42
85	MP3C	Z	-4.349	3.42
86	MP3C	Mx	.003	3.42
87	MP3C	Z	-4.349	3.42
88	MP3C	Mx	.003	3.42
89	OVPB	Z	-1.98	1.5
90	OVPB	Mx	.001	1.5
91	OVPB	Z	-1.98	1.5
92	OVPB	Mx	.001	1.5
93	OVPC	Z	-1.98	1.5
94	OVPC	Mx	-.002	1.5
95	OVPC	Z	-1.98	1.5
96	OVPC	Mx	-.002	1.5

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



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	1.089	5.5
2	MP3A	Mx	.001	5.5
3	MP3A	X	1.089	6.5
4	MP3A	Mx	.001	6.5
5	MP3C	X	1.089	5.5
6	MP3C	Mx	-.00023	5.5
7	MP3C	X	1.089	6.5
8	MP3C	Mx	-.00023	6.5
9	MP3A	X	1.089	5.5
10	MP3A	Mx	.001	5.5
11	MP3A	X	1.089	6.5
12	MP3A	Mx	.001	6.5
13	MP3C	X	1.089	5.5
14	MP3C	Mx	-.000859	5.5
15	MP3C	X	1.089	6.5
16	MP3C	Mx	-.000859	6.5
17	MP4A	X	5.389	2.62
18	MP4A	Mx	-.005	2.62
19	MP4A	X	5.389	4.55
20	MP4A	Mx	-.005	4.55
21	MP4B	X	5.389	2.62
22	MP4B	Mx	.003	2.62
23	MP4B	X	5.389	4.55
24	MP4B	Mx	.003	4.55
25	MP4C	X	5.389	2.62
26	MP4C	Mx	.003	2.62
27	MP4C	X	5.389	4.55
28	MP4C	Mx	.003	4.55
29	MP3A	X	4.021	1.33
30	MP3A	Mx	-.004	1.33
31	MP3A	X	4.021	5.83
32	MP3A	Mx	-.004	5.83
33	MP3B	X	4.021	1.33
34	MP3B	Mx	-2.1e-5	1.33
35	MP3B	X	4.021	5.83
36	MP3B	Mx	-2.1e-5	5.83
37	MP3C	X	4.021	1.33
38	MP3C	Mx	.004	1.33
39	MP3C	X	4.021	5.83
40	MP3C	Mx	.004	5.83
41	MP3A	X	4.021	1.33
42	MP3A	Mx	-.004	1.33
43	MP3A	X	4.021	5.83
44	MP3A	Mx	-.004	5.83
45	MP3B	X	4.021	1.33
46	MP3B	Mx	.004	1.33
47	MP3B	X	4.021	5.83
48	MP3B	Mx	.004	5.83
49	MP3C	X	4.021	1.33
50	MP3C	Mx	-2.1e-5	1.33
51	MP3C	X	4.021	5.83
52	MP3C	Mx	-2.1e-5	5.83
53	MP1A	X	.272	3.07
54	MP1A	Mx	-.000181	3.07
55	MP1A	X	.272	4.1
56	MP1A	Mx	-.000181	4.1
57	MP1B	X	.272	3.07
58	MP1B	Mx	9.1e-5	3.07
59	MP1B	X	.272	4.1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
60	MP1B	Mx	9.1e-5	4.1
61	MP1C	X	.272	3.07
62	MP1C	Mx	9.1e-5	3.07
63	MP1C	X	.272	4.1
64	MP1C	Mx	9.1e-5	4.1
65	MP2A	X	5.222	3.42
66	MP2A	Mx	.004	3.42
67	MP2A	X	5.222	3.42
68	MP2A	Mx	.004	3.42
69	MP2B	X	5.222	3.42
70	MP2B	Mx	-.002	3.42
71	MP2B	X	5.222	3.42
72	MP2B	Mx	-.002	3.42
73	MP2C	X	5.222	3.42
74	MP2C	Mx	-.002	3.42
75	MP2C	X	5.222	3.42
76	MP2C	Mx	-.002	3.42
77	MP3A	X	4.349	3.42
78	MP3A	Mx	.004	3.42
79	MP3A	X	4.349	3.42
80	MP3A	Mx	.004	3.42
81	MP3B	X	4.349	3.42
82	MP3B	Mx	-.002	3.42
83	MP3B	X	4.349	3.42
84	MP3B	Mx	-.002	3.42
85	MP3C	X	4.349	3.42
86	MP3C	Mx	-.002	3.42
87	MP3C	X	4.349	3.42
88	MP3C	Mx	-.002	3.42
89	OVPB	X	1.98	1.5
90	OVPB	Mx	.000825	1.5
91	OVPB	X	1.98	1.5
92	OVPB	Mx	.000825	1.5
93	OVPC	X	1.98	1.5
94	OVPC	Mx	0	1.5
95	OVPC	X	1.98	1.5
96	OVPC	Mx	0	1.5

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N4	N11	N5	N3	Y	Two Way	-.005
2	N3	N53	N47	N25	Y	Two Way	-.005
3	N25	N32	N26	N4	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N4	N11	N5	N3	Y	Two Way	-.01
2	N3	N53	N47	N25	Y	Two Way	-.01
3	N25	N32	N26	N4	Y	Two Way	-.01

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N4	N11	N5	N3	Y	Two Way	-.000257
2	N3	N53	N47	N25	Y	Two Way	-.000257
3	N25	N32	N26	N4	Y	Two Way	-.000257

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N4	N11	N5	N3	Z	Two Way	-.000643
2	N3	N53	N47	N25	Z	Two Way	-.000643
3	N25	N32	N26	N4	Z	Two Way	-.000643

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N4	N11	N5	N3	X	Two Way	.000643
2	N3	N53	N47	N25	X	Two Way	.000643
3	N25	N32	N26	N4	X	Two Way	.000643

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 N43	max 853.922	10	114.375	7	4984.41	1	-.058	70	1.708	4	.725	4
2	min -854.935	4	-269.007	1	-2424.538	7	-.156	13	-1.71	10	-.699	10
3 N130	max 1969.453	11	25.055	11	1064.338	11	.528	3	1.774	8	.175	1
4	min -4265.17	5	-337.727	17	-2390.124	5	-.326	9	-1.776	2	-.318	7
5 N133A	max 4327.223	9	110.277	3	1244.365	3	.637	12	1.791	12	.414	6
6	min -2061.707	3	-343.175	45	-2551.853	9	-.569	6	-1.796	6	-.279	12
7 N138B	max 30.406	10	2615.419	13	-868.01	7	0	75	0	12	0	6
8	min -30.469	4	554.076	7	-4135.642	13	0	1	0	6	0	12
9 N139	max 3595.279	17	2625.288	17	2075.7	17	0	4	0	4	0	4
10	min 821.119	11	604.156	11	474.072	11	0	10	0	10	0	10
11 N140	max -776.869	3	2629.657	21	2079.228	21	0	2	0	8	0	8
12	min -3601.321	21	572.247	3	448.595	3	0	8	0	2	0	2
13 Totals:	max 4967.394	10	6802.803	14	4919.483	1						
14	min -4967.398	4	2482.336	71	-4919.474	7						

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

Member	Shape	Code Check	Lo...	LC	Shear Check	Lo...	phi*P...	phi*P...	phi*M...	phi*M...	Eqn		
1	MP2C	PIPE_2.0	.318	5.0...	11	.083	3.3...	1	1785...	32130	1.872	1.872	H1-1b
2	MP2A	PIPE_2.0	.317	5.0...	3	.084	3.3...	5	1785...	32130	1.872	1.872	H1-1b
3	MP2B	PIPE_2.0	.313	5.0...	7	.084	3.3...	9	1785...	32130	1.872	1.872	H1-1b
4	MP4A	PIPE_2.0	.282	5.0...	7	.073	5.0...	2	1785...	32130	1.872	1.872	H1-1b
5	MP4C	PIPE_2.0	.282	5.0...	3	.073	5.0...	10	1785...	32130	1.872	1.872	H1-1b
6	MP4B	PIPE_2.0	.281	5.0...	10	.074	5.0...	6	1785...	32130	1.872	1.872	H1-1b
7	MP1A	PIPE_2.0	.251	5.0...	3	.037	3.0...	3	1785...	32130	1.872	1.872	H1-1b
8	MP1C	PIPE_2.0	.251	5.0...	11	.037	3.0...	11	1785...	32130	1.872	1.872	H1-1b
9	MP1B	PIPE_2.0	.249	5.0...	7	.036	3.0...	6	1785...	32130	1.872	1.872	H1-1b
10	MP3C	PIPE_2.5	.246	5.0...	7	.114	1.75	12	3396...	50715	3.596	3.596	H1-1b
11	MP3A	PIPE_2.5	.246	5.0...	11	.114	1.75	4	3396...	50715	3.596	3.596	H1-1b
12	MP3B	PIPE_2.5	.242	5.0...	3	.113	1.75	8	3396...	50715	3.596	3.596	H1-1b
13	M69A	HSS4X4...	.239	6.1...	2	.071	4.0...	y 3	1093...	139518	16.181	16.181	H1-1b
14	M70A	HSS4X4...	.232	6.1...	6	.074	0 z	6	1093...	139518	16.181	16.181	H1-1b
15	M21	HSS4X4...	.228	6.1...	4	.075	0 z	4	1093...	139518	16.181	16.181	H1-1b
16	M51	PIPE_2.0	.193	9.1...	4	.098	11...	10	5202...	32130	1.872	1.872	H1-1b
17	M2	HSS4X4...	.193	13...	1	.081	13...	z 7	6281...	139518	16.181	16.181	H1-1b
18	M31	PIPE_2.0	.192	9.1...	8	.098	11...	2	5202...	32130	1.872	1.872	H1-1b
19	M22	HSS4X4...	.192	13...	9	.082	13...	z 3	6281...	139518	16.181	16.181	H1-1b
20	M41	PIPE_2.0	.189	9.1...	12	.099	11...	6	5202...	32130	1.872	1.872	H1-1b
21	M12	HSS4X4...	.181	13...	5	.084	13...	z 11	6281...	139518	16.181	16.181	H1-1b
22	M73	LL2.5x2...	.114	0	21	.004	4.7...	y 8	4313...	58320	4.643	2.55	1 H1-...
23	M74	LL2.5x2...	.114	0	17	.004	0 y	4	4313...	58320	4.643	2.55	1 H1-...
24	M75	LL2.5x2...	.113	0	13	.004	0 z	11	4313...	58320	4.643	2.55	1 H1-...
25	OVPB	PIPE_2.5	.078	3	4	.035	3	7	4297...	50715	3.596	3.596	H1-1b
26	OVPB	PIPE_2.5	.078	3	11	.035	3	2	4297...	50715	3.596	3.596	H1-1b



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

Member	Shape	Code Check	Lo...	LC	Shear Check	Lo...	phi*P...	phi*P...	phi*M...	phi*M...	Eqn	
27	M5	L2x2x4	.026	1.0..	22	.003	1.0..z	232895...	3058...	.691	1.577	H2-1
28	M25	L2x2x4	.026	1.0..	18	.003	1.0..z	242895...	3058...	.691	1.577	H2-1
29	M15	L2x2x4	.026	1.0..	14	.003	1.0..z	232895...	3058...	.691	1.577	H2-1
30	M4	L2x2x4	.026	1.0..	16	.003	1.0..y	222895...	3058...	.691	1.577	H2-1
31	M24	L2x2x4	.026	1.0..	24	.003	1.0..y	242895...	3058...	.691	1.577	H2-1
32	M14	L2x2x4	.026	1.0..	20	.003	1.0..y	232895...	3058...	.691	1.577	H2-1
33	M3	L2x2x4	.021	1.0..	16	.003	1.0..y	172895...	3058...	.691	1.577	H2-1
34	M23	L2x2x4	.021	1.0..	24	.003	1.0..y	242895...	3058...	.691	1.577	H2-1
35	M13	L2x2x4	.021	1.0..	20	.003	1.0..y	232895...	3058...	.691	1.577	H2-1
36	M6	L2x2x4	.018	1.0..	22	.003	1.0..z	152895...	3058...	.691	1.577	H2-1
37	M26	L2x2x4	.018	1.0..	18	.003	1.0..z	232895...	3058...	.691	1.577	H2-1
38	M16	L2x2x4	.018	1.0..	14	.003	1.0..z	192895...	3058...	.691	1.577	H2-1
39	M66	PIPE_2.0	.010	1.5..	11	.117	0	22860...	32130	1.872	1.872	H1-1b
40	M65	PIPE_2.0	.010	1.5..	3	.117	0	62860...	32130	1.872	1.872	H1-1b
41	M67	PIPE_2.0	.010	1.5..	7	.119	3.1..	102860...	32130	1.872	1.872	H1-1b

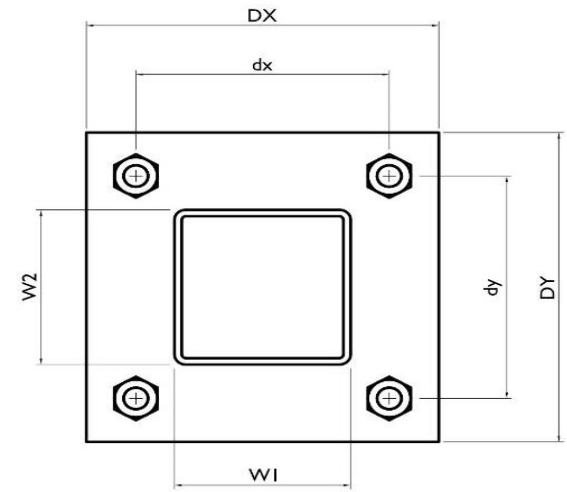
I. Mount-to-Tower Connection Check

Custom Orientation Required No

Tower Connection Bolt Checks Yes

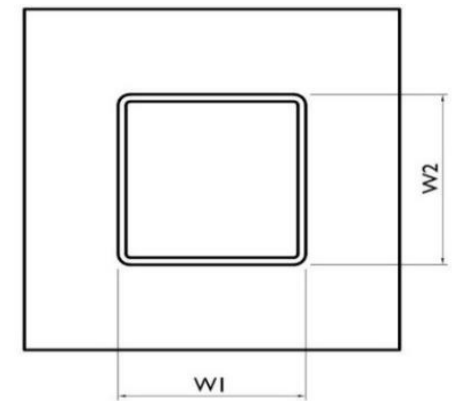
Bolt Orientation Parallel

Bolt Quantity per Reaction:	4
d_x (in) (Delta X of typ. bolt config. sketch):	3
d_y (in) (Delta Y of typ. bolt config. sketch):	8
Bolt Type:	A325N
Bolt Diameter (in):	0.75
Required Tensile Strength / bolt (kips):	3.9
Required Shear Strength / bolt (kips):	0.5
Tensile Capacity / bolt (kips):	29.8
Shear Capacity / bolt (kips):	17.9
Bolt Overall Utilization:	12.9%



Tower Connection Baseplate Checks Yes

Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	6
Plate Height, D_y (in):	10
W_1 (in):	4
W_2 (in):	4
Member Thickness (in):	0.25
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.5
Length of Yield Line, L_y (in):	4.90
Bolt Eccentricity, e (in):	1.86
M_u (kip-in):	7.17
$\Phi * M_n$ (kip-in):	9.92
Plate Bending Utilization:	72.3%



Tower Connection Weld Checks

Weld Shape:
Weld Stiffener Configuration:
Stiffener Notch Length, n (in):
Weld Size (1/16 in):
W1 (in):
W2 (in):
Weld Total Length (in):
 Z_x (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
None
4
4
4
16.00
21.33
21.33
85.33
2.25
2.25
0.78
5.57
13.9%

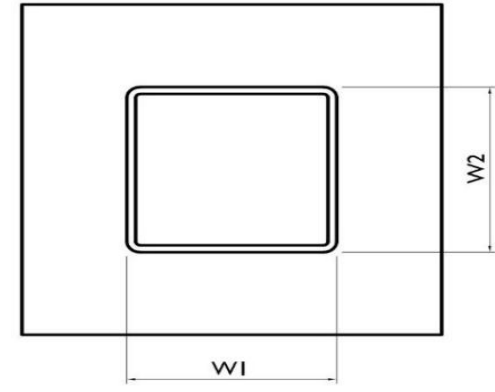
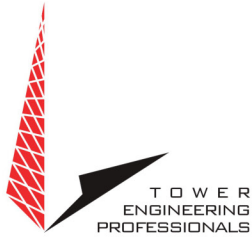


EXHIBIT 5





RF Design and Services
326 Tryon Road
Raleigh, North Carolina 27603
(612) 965-8225
WWW.TEPGROUP.NET

Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:

411189

Site Name:

Cranburysu CT

Location:

Westport, Connecticut

Tenants:

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

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

August 27th, 2023

69004 P-405149

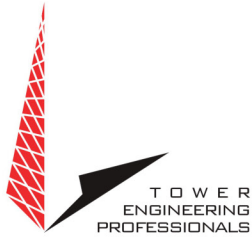
Prepared By:

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

Approved By:

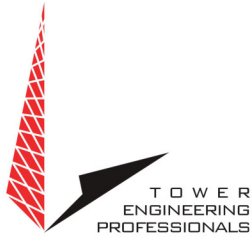


08/31/23



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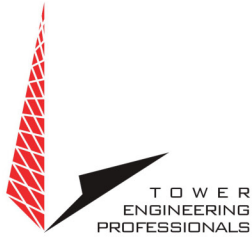
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Non-Ionizing Electromagnetic Radiation (NIER) Study

411189 Cranburysu CT
Westport, Connecticut

INTRODUCTION

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

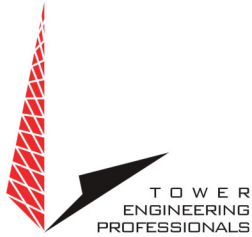
SITE AND FACILITY CONSIDERATIONS

Site 411189 Cranburysu CT is located at 3329 Garden Circle, in Westport, Connecticut at coordinates 41.162935, -73.373091. The support structure is a 131' monopole. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are Dish Wireless (Dish), T-Mobile (T-Mobile), AT&T Mobility (AT&T) & Verizon Wireless (VZW). A table listing all antennae and effective radiated power (ERP) levels that were used in this study may be found in Appendix 2, Antenna Inventory.

POWER DENSITY CALCULATIONS

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

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



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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 411189 CRANBURYSU CT.RF NIER Study 8/14/23.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

SITE MITIGATION & CONTROL

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

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

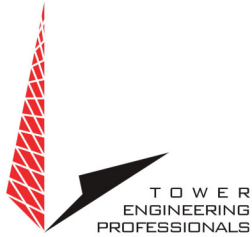
COMPLIANCE DETERMINATION

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

APPENDIX 1 Site Photos

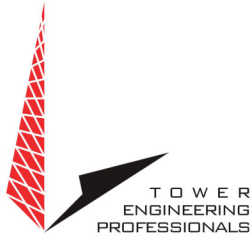


Aerial View of Site



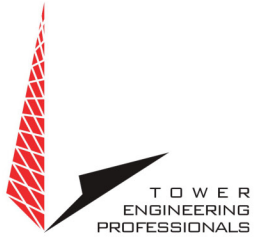
Appendix 2.1 Antenna Inventory

411189 Cranburysu CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	Verizon	Samsung	Generic	3500/3600	060	1219	128
2	Verizon	Samsung	Generic	3500/3600	180	1219	128
3	Verizon	Samsung	Generic	3500/3600	300	1219	128
4	Verizon	Quintel	QS6656	700/2100	060	17359	128
5	Verizon	Quintel	QS6656	700/2100	180	17359	128
6	Verizon	Quintel	QS6656	700/2100	300	17359	128
7	Verizon	Quintel	QS6656	700/2100	060	17359	128
8	Verizon	Quintel	QS6656	700/2100	180	17359	128
9	Verizon	Quintel	QS6656	700/2100	300	17359	128
10	Verizon	Samsung	MT6407-77A	3700/3800/3900	060	14245	128
11	Verizon	Samsung	MT6407-77A	3700/3800/3900	180	14245	128
12	Verizon	Samsung	MT6407-77A	3700/3800/3900	300	14245	128
13	T-Mobile	RFS	APXVAALL24	600/1900/2100	030	27933	110
14	T-Mobile	RFS	APXVAALL24	600/1900/2100	150	27933	110
15	T-Mobile	RFS	APXVAALL24	600/1900/2100	270	27933	110
16	T-Mobile	Ericsson	Air 6449	2500/2600	030	20136	110
17	T-Mobile	Ericsson	Air 6449	2500/2600	150	20136	110
18	T-Mobile	Ericsson	Air 6449	2500/2600	270	20136	110

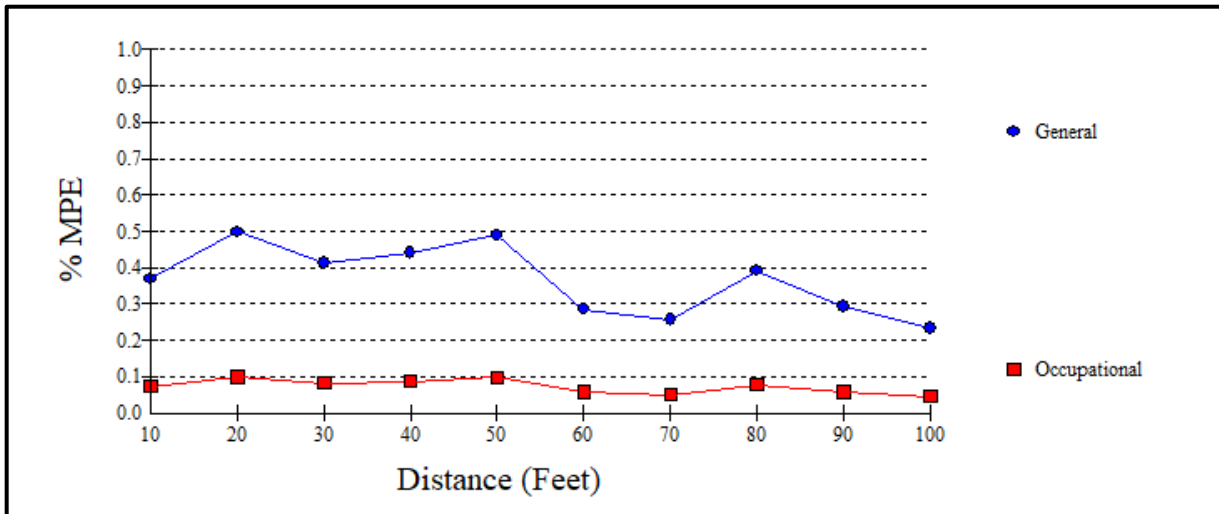


Appendix 2.2 Antenna Inventory

411189 Cranburysu CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
19	AT&T	CCI	DMP65R-BU6DA	700/800	030	32890	100
20	AT&T	CCI	DMP65R-BU6DA	700/800	150	32890	100
21	AT&T	CCI	DMP65R-BU6DA	700/800	270	32890	100
22	AT&T	CC1	TPA-65R-BU6DA	700/800/1900/2100/3500/3800/3900	030	63835	100
23	AT&T	CCI	TPA-65R-BU6DA	700/800/1900/2100/3500/3800/3900	150	63835	100
24	AT&T	CCI	TPA-65R-BU6DA	700/800/1900/2100/3500/3800/3900	270	63835	100
25	AT&T	Ericsson	AIR 6419	700/800/1900/2100/3500/3800/3900	030	63835	100
26	AT&T	Ericsson	AIR 6419	700/800/1900/2100/3500/3800/3900	120	63835	100
27	AT&T	Ericsson	AIR 6419	700/800/1900/2100/3500/3800/3900	240	63835	100
28	AT&T	Ericsson	Air 6449	700/800/1900/2100/3500/3800/3900	030	63835	100
29	AT&T	Ericsson	Air 6449	700/800/1900/2100/3500/3800/3900	120	63835	100
30	AT&T	Ericsson	Air 6449	700/800/1900/2100/3500/3800/3900	240	63835	100
31	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	240	48332	86
32	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	030	48332	86
33	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	120	48332	86

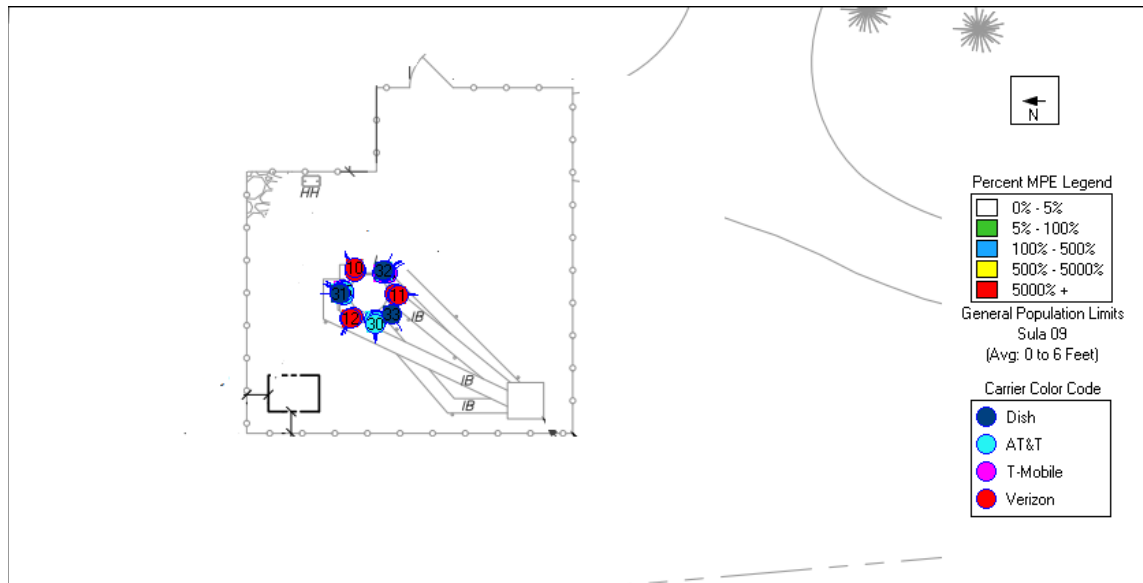


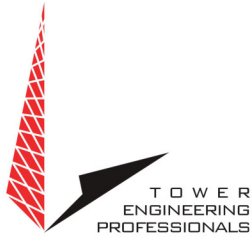
Appendix 3.1 MPE Limit Study



Maximum Power Density (@20'):	0.0031 mW/cm ²
General Population MPE (@20'):	0.4986%
Occupational MPE (@20'):	0.0996%

Appendix 3.2 MPE Limit Study





Appendix 4 Information Pertaining to MPE Studies

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

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

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

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



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.

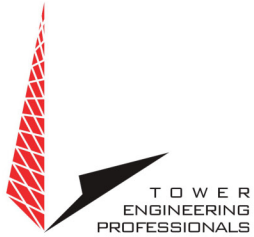
General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore,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



Appendix 5 MPE Standards Methodology

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

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

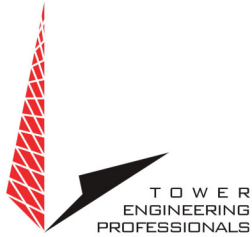


The FCC's limits for exposure at different frequencies are shown in the following Tables.

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.

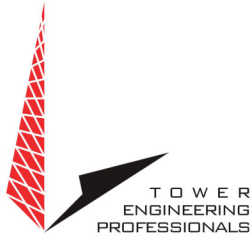
Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time |E|², |H|² or S (minutes)
0.3 - 1.34	614	1.63	100*	30
1.34 - 30	824/f	2.19/f	180/F ²	30
30 -300	27.5	0.073	0.2	30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

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

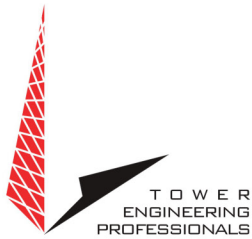
Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length



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.



Spherical Model (Far Field Predictions)

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

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

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

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

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

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

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

EXHIBIT 6



DOCKET NO. 188 - An application by Cellco Partnership d/b/a Bell Atlantic Mobile for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of a proposed telecommunications tower and associated equipment located at 2 Sunny Lane or on a parcel located immediately south of the intersection of Clinton Avenue and the Merritt Parkway in Westport, Connecticut.

Connecticut Siting Council

December 17, 1998

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications tower and equipment buildings at the proposed prime site in Westport, Connecticut, 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 Bell Atlantic Mobile (BAM) for the construction, operation, and maintenance of a telecommunications tower, and associated equipment at the proposed prime site, located at 2 Sunny Lane, Westport, Connecticut. We find the effects on scenic resources and adjacent residences of the proposed alternate site to be significant, and therefore deny certification of that site.

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

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of BAM, Springwich Cellular Limited Partnership (SCLP), Sprint PCS (Sprint), Omnipoint Communications, and Nextel Communications of the Mid-Atlantic, Inc. (Nextel); and such tower, excluding appurtenances, shall not exceed a height of 130 feet above ground level (AGL).
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 submitted to and approved by the Council prior to the commencement of facility construction and shall include a final site plan(s) for site development detailing: relocation of the tower to the northwestern corner of the parcel to protect a nearby watercourse and wetlands, and to be closer to the commuter parking area; tower compound reduced in area to the minimum necessary for tower security; construction of the cable tray below grade; placement of a stockade or other architecturally treated fence around the compound; the location and specifications for the tower foundation, antennas, emergency generator and fuel tank, security fence, accessway, and vegetative screening; placement of underground utilities; construction plans for tree trimming, water drainage, and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; provisions for the tower finish that may include painting; and provisions for the prevention and containment of spills and/or other discharge into surface water and ground water bodies.
3. Upon the establishment of any new State or federal radiofrequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
4. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radiofrequency power density for all transmitting antennas on the proposed tower as ordered in this Decision and Order, and again for any proposed change in the operation of the tower.
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. The Certificate Holder shall comply with the Town of Westport's recommendations for site development, including: proper abandonment of the existing septic system; removal of a portion of the existing driveway to accommodate for increased lot coverage; planting a dense vegetative buffer north of the Poplar Plains Brook; and relocation of the above-ground fuel tank to a distance at least 60 feet away from the waterway protection lines.

7. If the facility does not initially provide, or permanently ceases to provide cellular services following completion of construction, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or re-application for any continued or new use shall be made to the Council before any such use is made.

8. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.

9. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

10. The Certificate Holder shall provide to the Council the Federal Aviation Administration's determination for obstruction or hazard to air navigation.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The Hartford Courant, Westport News, and Connecticut Post.

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	ITS REPRESENTATIVE
Bell Atlantic Mobile	Kenneth C. Baldwin, Esq. Brian C. S. Freeman, Esq. Robinson & Cole One Commercial Plaza Hartford, CT 06103-3597 Mr. David S. Malko, P.E. Jennifer Young Gaudet Bell Atlantic Mobile 20 Alexander Drive Wallingford, CT 06492
PARTIES Town of Westport Residents of Clinton Avenue Westport	ITS REPRESENTATIVE Ira W. BloomTown Attorney Town Hall, 110 Myrtle Avenue Westport, CT 06880 203) 341-1040 Robert Sullivan, Esq. Law Offices of Robert Sullivan 190 Main Street Westport, CT 06880 (203) 227-1404

INTERVENORS

Sprint Spectrum, L.P. d/b/a Sprint PCS
Nextel Communications of the Mid-
Atlantic
Springwich Cellular Limited Partnership

INTERVENORS

Residents of Sunny Lane, Westport
Omnipoint Communications, Inc.

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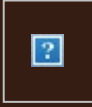
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EXHIBIT 7



From: [UPS](#)
To: [Barbara Kassabian](#)
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030309663862
Date: Tuesday, September 19, 2023 2:28:23 PM



Hello, your package has been delivered.

Delivery Date: Tuesday, 09/19/2023

Delivery Time: 2:27 PM

Signed by: PAUL



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CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030309663862
Ship To:	FIRST SELECTWOMAN 110 MYRTLE AVE ROOM 310 WESTPORT, CT 068803514 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14519485

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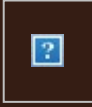
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From: [UPS](#)
To: [Barbara Kassabian](#)
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030302438878
Date: Tuesday, September 19, 2023 2:27:53 PM



Hello, your package has been delivered.

Delivery Date: Tuesday, 09/19/2023

Delivery Time: 2:27 PM

Signed by: PAUL



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CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030302438878
Ship To:	ZONING OFFICIAL 110 MYRTLE AVE ROOM 203 WESTPORT, CT 068803514 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14519485

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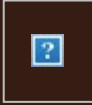
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From: [UPS](#)
To: [Barbara Kassabian](#)
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030313394896
Date: Tuesday, September 19, 2023 9:50:05 AM



Hello, your package has been delivered.

Delivery Date: Tuesday, 09/19/2023

Delivery Time: 9:49 AM

Signed by: LONG

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030313394896
Ship To:	AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 018011053 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14519485

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