

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

October 27, 2023

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

**RE: Notice of Exempt Modification // Site: NORTH BLOOMFIELD CT (ATC: 283562)
2627 Day Hill Road, Bloomfield, CT 06002
N 41.87655791 // W -72.74185147**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains fifteen (15) antenna at the 110-ft level on the existing 140ft Tower, located at 2627 Day Hill Road, Bloomfield, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation of four (4) interference mitigation filters on Verizon Wireless existing antenna platform and mounting assembly.

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

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated September 27, 2023, by A.T Engineering Services, LLC, a structural analysis dated September 21, 2023, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated July 24, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated October 10, 2023, by Tower Engineering Professionals.

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

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

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

Sincerely,

Derek Maheux

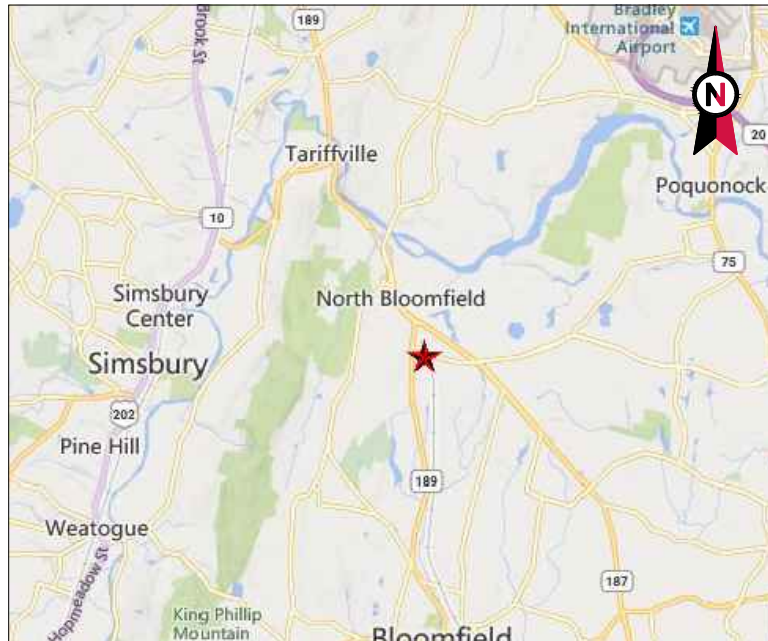
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Attachments: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Available Original Tower Approval Records
Exhibit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

cc: Philip Schenck – Acting Town Manager – Chief Elected Official
Justin Lafountain – Director Building and Land Use - as P&Z official
American Tower Corporation - as tower owner and ground owner

EXHIBIT 1





VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: NORTH BLOOMFIELD CT
 ATC SITE NUMBER: 283562
 VERIZON SITE NAME: NORTH BLOOMFIELD CT
 VERIZON SITE NUMBER: 5000103134
 SITE ADDRESS: 2627 DAY HILL ROAD
 BLOOMFIELD, CT 06002



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>DESIGN CRITERIA FROM TOWER STRUCTURAL ANALYSIS: BASIC WIND SPEED: 116 MPH (3-SECOND GUST) BASIC WIND SPEED W/ ICE: 50 MPH (3-SECOND GUST) W/ 1.50" RADIAL ICE CONCURRENT CODE(S): ANSI/TIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE</p> <p>EXPOSURE CATEGORY: C RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 1 TOPOGRAPHIC CATEGORY: 1 SPECTRAL RESPONSE: S_s=0.18, S_w=0.05 SITE CLASS: D - STIFF SOIL - DEFAULT</p> <p>INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 09/21/23.</p>	<p>SITE ADDRESS: 2627 DAY HILL ROAD BLOOMFIELD, CT 06002 COUNTY: HARTFORD</p> <p>GEOGRAPHIC COORDINATES: LATITUDE: 41.87655791 LONGITUDE: -72.74185147 GROUND ELEVATION: 179' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: INSTALL (2) DUAL SWIVEL MOUNT(S), AND (4) FILTER(S) EXISTING (15) ANTENNA(S), (6) RRR(S), (3) DIPLEXER(S), (1) 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>PROJECT TEAM</p> <p>TOWER OWNER: AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p>ENGINEER: ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518</p> <p>PROPERTY OWNER: RIVER BEND DEVELOPMENT 2627 DAY HILL ROAD BLOOMFIELD, CT 06002</p> <p>APPLICANT: 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>0</td><td>09/27/23</td><td>AP</td></tr> <tr><td>G-002</td><td>GENERAL NOTES</td><td>0</td><td>09/27/23</td><td>AP</td></tr> <tr><td>C-101</td><td>DETAILED SITE PLAN</td><td>0</td><td>09/27/23</td><td>AP</td></tr> <tr><td>C-201</td><td>TOWER ELEVATION</td><td>0</td><td>09/27/23</td><td>AP</td></tr> <tr><td>C-401</td><td>ANTENNA INFORMATION & SCHEDULE</td><td>0</td><td>09/27/23</td><td>AP</td></tr> <tr><td>C-501</td><td>CONSTRUCTION DETAILS</td><td>0</td><td>09/27/23</td><td>AP</td></tr> <tr><td>E-501</td><td>GROUNDING DETAILS</td><td>0</td><td>09/27/23</td><td>AP</td></tr> <tr><td>R-601</td><td>SUPPLEMENTAL</td><td></td><td></td><td></td></tr> </table>	G-001	TITLE SHEET	0	09/27/23	AP	G-002	GENERAL NOTES	0	09/27/23	AP	C-101	DETAILED SITE PLAN	0	09/27/23	AP	C-201	TOWER ELEVATION	0	09/27/23	AP	C-401	ANTENNA INFORMATION & SCHEDULE	0	09/27/23	AP	C-501	CONSTRUCTION DETAILS	0	09/27/23	AP	E-501	GROUNDING DETAILS	0	09/27/23	AP	R-601	SUPPLEMENTAL		
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E-501	GROUNDING DETAILS	0	09/27/23	AP																																						
R-601	SUPPLEMENTAL																																									
<p>UTILITY COMPANIES</p> <p>POWER COMPANY: CONNECTICUT LIGHT & POWER PHONE: (888) 783-6617</p> <p>TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 921-8102</p>	<p>PROJECT LOCATION DIRECTIONS</p> <p>FROM HARTFORD CT TAKE I-91 NORTH TOWARD SPRINGFIELD MA. TAKE EXIT 36 CT-178 TOWARD BLOOMFIELD. TURN LEFT ONTO CT-178. TURN RIGHT ONTO BLUE HILLS AVE CT-187. TURN LEFT ONT DAY HILL ROAD. SITE IS ON LEFT JUST PAST RR TRACKS</p>	<p>CONTRACTOR PMI REQUIREMENTS</p> <p>PMI ACCESSED AT: HTTPS://PMI.VZSMART.COM</p> <p>SMART TOOL VENDOR PROJECT NUMBER: 10207610</p> <p>VZW LOCATION CODE (PSLC): 5000103134</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	AP	09/27/23

ATC SITE NUMBER:
 283562
 ATC SITE NAME:
 NORTH BLOOMFIELD CT
 VERIZON SITE NAME:
 NORTH BLOOMFIELD CT
 SITE ADDRESS:
 2627 DAY HILL ROAD
 BLOOMFIELD, CT 06002



ATC JOB NO: 14519454_GO
 CUSTOMER ID: NORTH BLOOMFIELD CT
 CUSTOMER #: 5000103134

TITLE SHEET

SHEET NUMBER:
G-001
 REVISION:
0

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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 ANSIEIA/NTIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

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

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

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

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

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

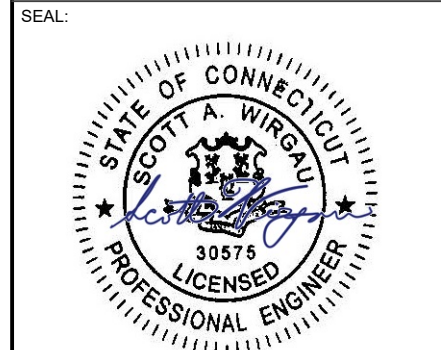


AMERICAN TOWER®
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 SUITE 100
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 ATC SITE NAME:
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 VERIZON SITE NAME:
 NORTH BLOOMFIELD CT
 SITE ADDRESS:
 2627 DAY HILL ROAD
 BLOOMFIELD, CT 06002



Digitally Signed: 2023-09-28



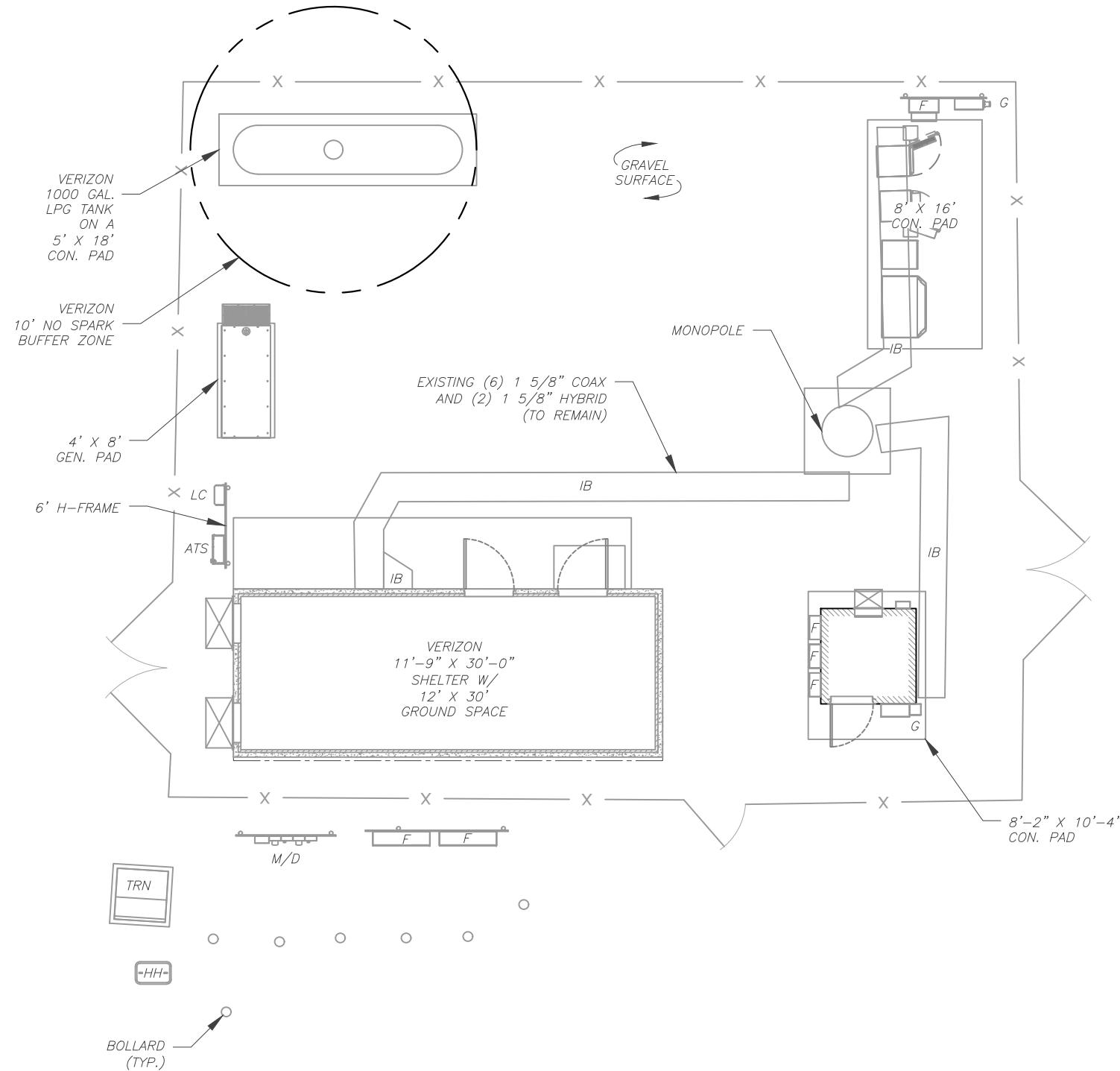
ATC JOB NO:	14519454_G0
CUSTOMER ID:	NORTH BLOOMFIELD CT
CUSTOMER #:	5000103134

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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SITE PLAN NOTES:

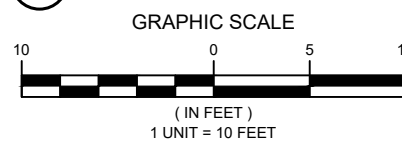
- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE 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

1 DETAILED SITE PLAN



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

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	AP	09/27/23

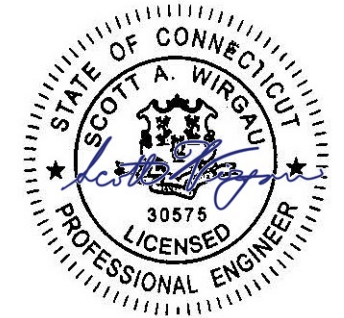
ATC SITE NUMBER:
283562

ATC SITE NAME:
NORTH BLOOMFIELD CT

VERIZON SITE NAME:
NORTH BLOOMFIELD CT

SITE ADDRESS:
 2627 DAY HILL ROAD
 BLOOMFIELD, CT 06002

SEAL:



Digitally Signed: 2023-09-28



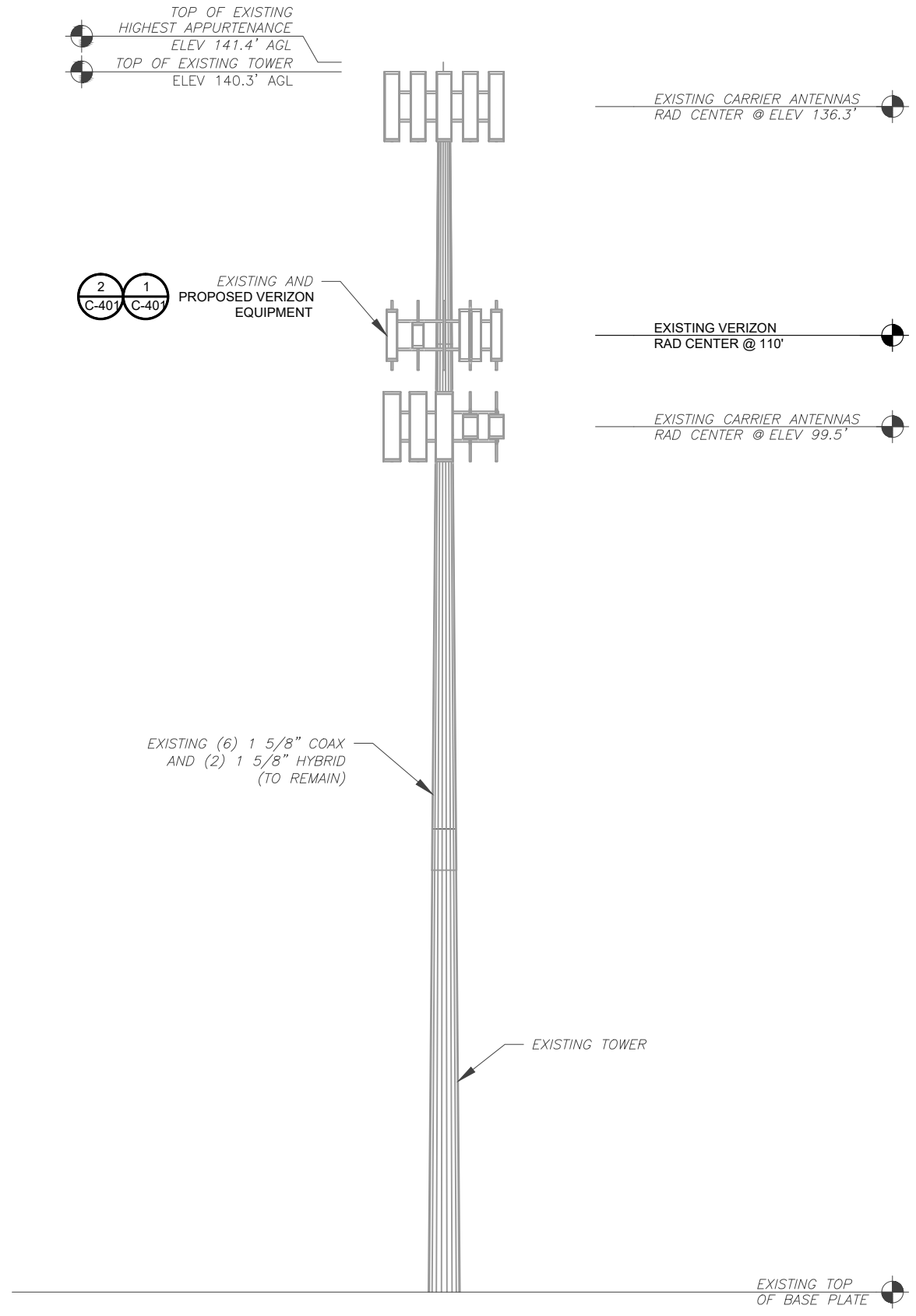
ATC JOB NO:	14519454_G0
CUSTOMER ID:	NORTH BLOOMFIELD CT
CUSTOMER #:	5000103134

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

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PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 07/24/23, 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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ATC SITE NAME:
NORTH BLOOMFIELD CT

VERIZON SITE NAME:
NORTH BLOOMFIELD CT

SITE ADDRESS:
2627 DAY HILL ROAD
BLOOMFIELD, CT 06002



Digitally Signed: 2023-09-28

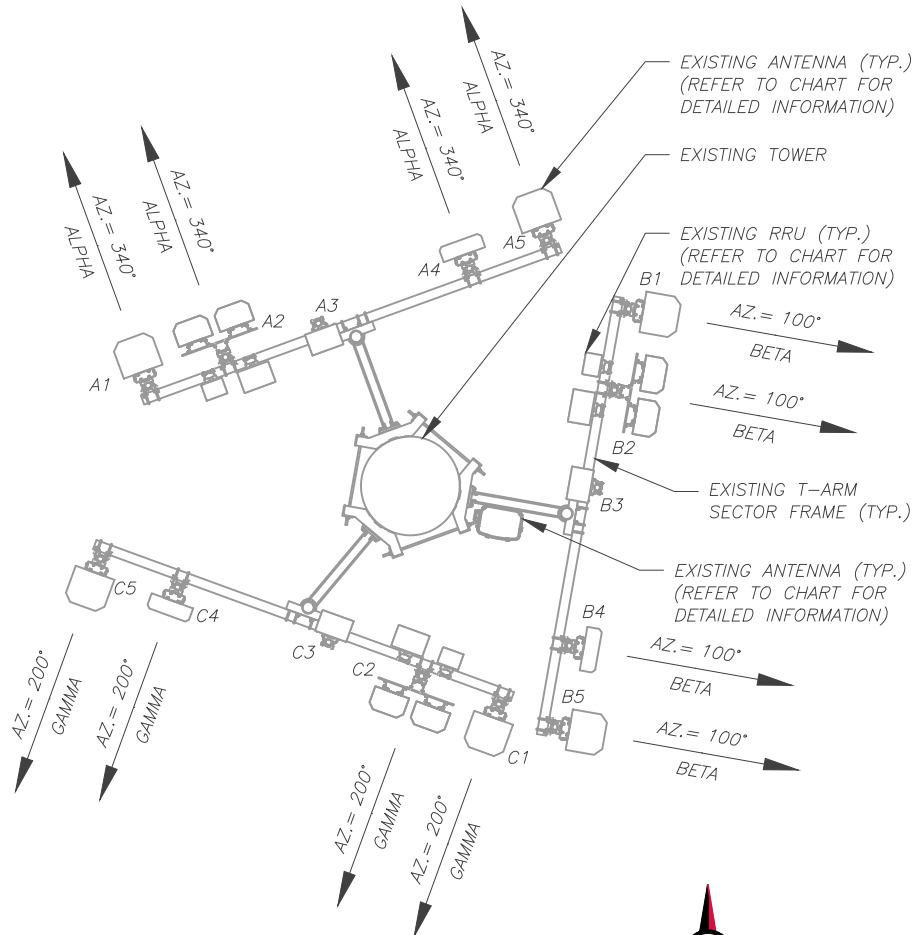


ATC JOB NO: 14519454_GO
CUSTOMER ID: NORTH BLOOMFIELD CT
CUSTOMER #: 5000103134

TOWER ELEVATION

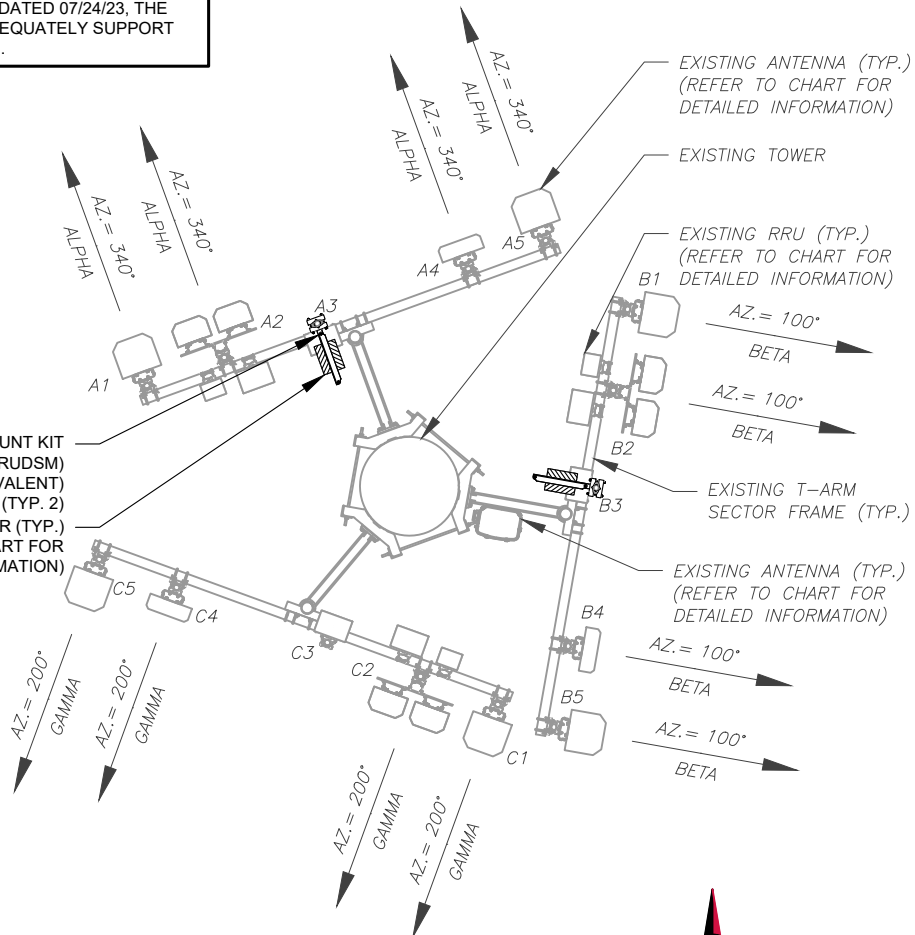
SHEET NUMBER: **C-201** REVISION: **0**

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

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 07/24/23, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



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

EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	110'	340°	A1	LPA-80063/6CF	-	RMN	-	-
			A2	(2) JAHH-65B-R3B	-	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN RMN
			A3	-	-	-	B5/B13 RRH-BR04C	RMN
			A4	MT6407-77A	-	RMN	-	-
			A5	LPA-80063/6CF	-	RMN	-	-
BETA	110'	100°	B1	LPA-80063/6CF	-	RMN	-	-
			B2	(2) JAHH-65B-R3B	-	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN RMN
			B3	-	-	-	B5/B13 RRH-BR04C	RMN
			B4	MT6407-77A	-	RMN	-	-
			B5	LPA-80063/6CF	-	RMN	-	-
GAMMA	110'	200°	C1	LPA-80063/6CF	-	RMN	-	-
			C2	(2) JAHH-65B-R3B	-	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN RMN
			C3	-	-	-	B5/B13 RRH-BR04C	RMN
			C4	MT6407-77A	-	RMN	-	-
			C5	LPA-80063/6CF	-	RMN	-	-

NOTES

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

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

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

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	100'	340°	A1	LPA-80063/6CF	-	RMN	-	-
			A2	(2) JAHH-65B-R3B	-	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN RMN
			A3	-	-	-	B5/B13 RRH-BR04C (2) KA-6030	RMN ADD
			A4	MT6407-77A	-	RMN	-	-
			A5	LPA-80063/6CF	-	RMN	-	-
BETA	100'	100°	B1	LPA-80063/6CF	-	RMN	-	-
			B2	(2) JAHH-65B-R3B	-	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN RMN
			B3	-	-	-	B5/B13 RRH-BR04C (2) KA-6030	RMN ADD
			B4	MT6407-77A	-	RMN	-	-
			B5	LPA-80063/6CF	-	RMN	-	-
GAMMA	100'	200°	C1	LPA-80063/6CF	-	RMN	-	-
			C2	(2) JAHH-65B-R3B	-	RMN	B2/B66A RRH-BR049 CBC78T-DS-43-2X	RMN RMN
			C3	-	-	-	B5/B13 RRH-BR04C	RMN
			C4	MT6407-77A	-	RMN	-	-
			C5	LPA-80063/6CF	-	RMN	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(1) RC3DC-3315-PF-48	RMN	(6) 1 5/8" COAX AND (2) 1 5/8" HYBRID	RMN
-	-	-	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(1) RC3DC-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	AP	09/27/23

ATC SITE NUMBER:
283562
ATC SITE NAME:
NORTH BLOOMFIELD CT
VERIZON SITE NAME:
NORTH BLOOMFIELD CT
SITE ADDRESS:
2627 DAY HILL ROAD
BLOOMFIELD, CT 06002

SEAL:

Digitally Signed: 2023-09-28

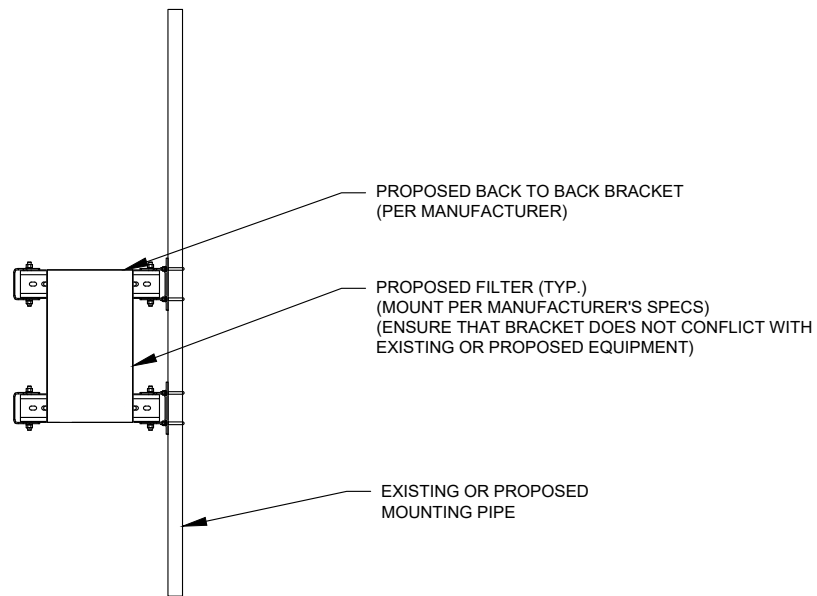
ATC JOB NO: 14519454_GO
CUSTOMER ID: NORTH BLOOMFIELD CT
CUSTOMER #: 5000103134

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 FILTER MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



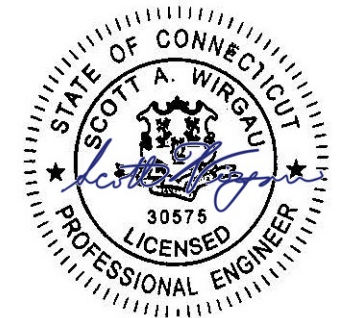
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NORTH BLOOMFIELD CT
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NORTH BLOOMFIELD CT
 SITE ADDRESS:
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BLOOMFIELD, CT 06002

SEAL:



Digitally Signed: 2023-09-28

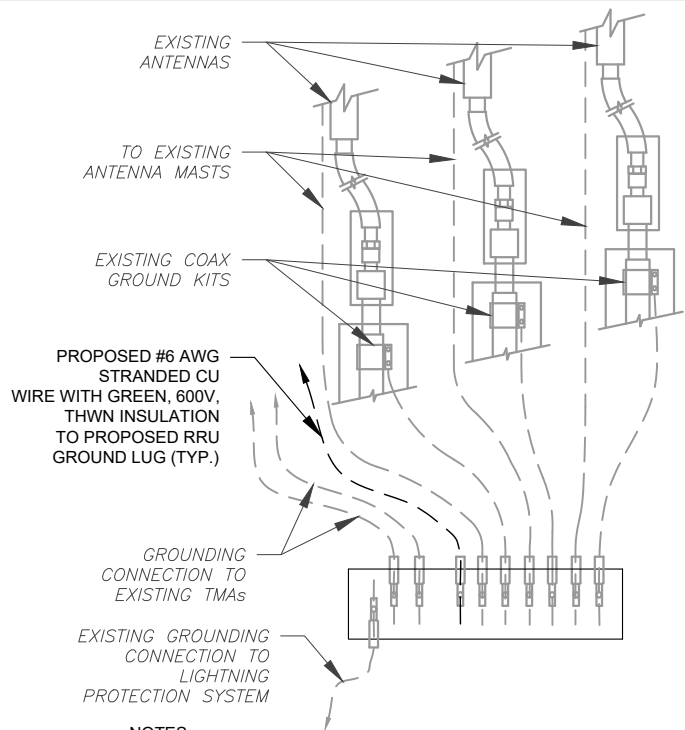


ATC JOB NO: 14519454_G0
 CUSTOMER ID: NORTH BLOOMFIELD CT
 CUSTOMER #: 5000103134

**CONSTRUCTION
DETAILS**

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

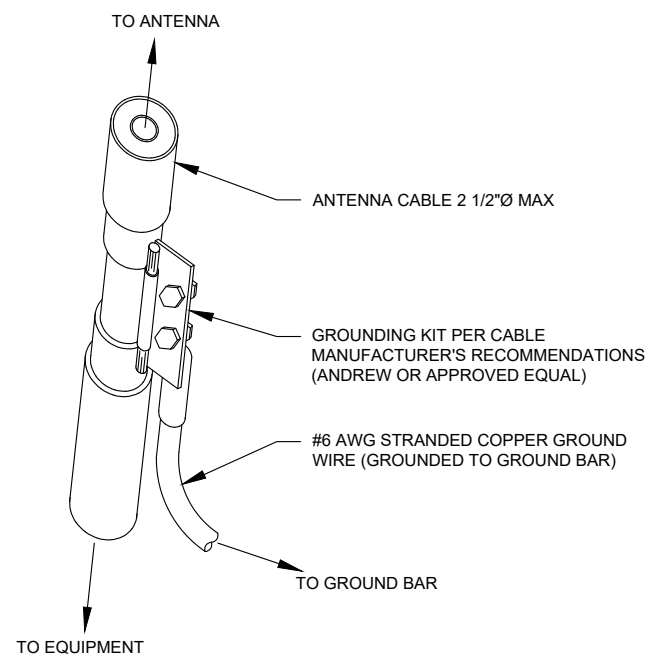
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NOTES:

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.

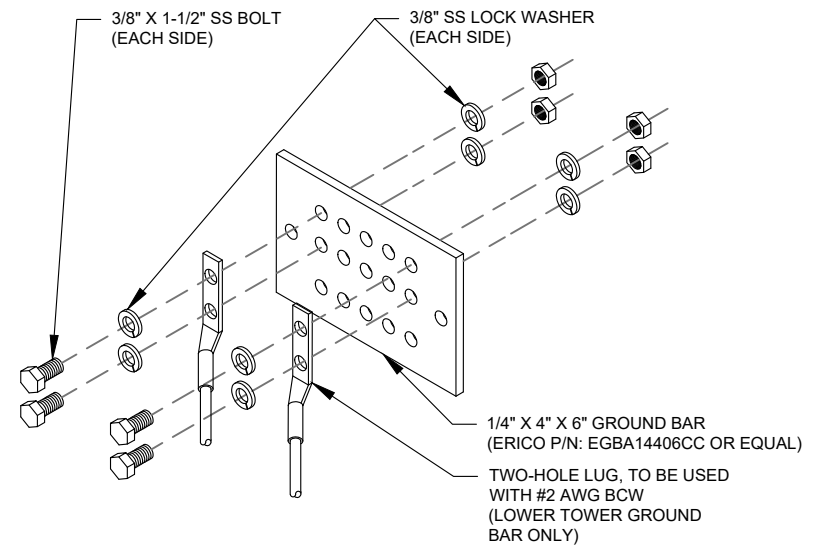
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



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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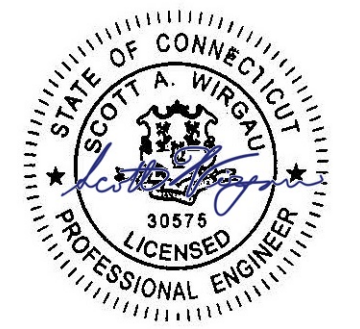
ATC SITE NUMBER:
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ATC SITE NAME:
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VERIZON SITE NAME:
NORTH BLOOMFIELD CT

SITE ADDRESS:
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BLOOMFIELD, CT 06002

SEAL:



Digitally Signed: 2023-09-28



ATC JOB NO:	14519454_G0
CUSTOMER ID:	NORTH BLOOMFIELD CT
CUSTOMER #:	5000103134

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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Colliers Engineering & Design CT. P.C.
 1055 Washington Boulevard
 Stamford, CT 06901
 203.324.0800
 peter.albano@collierseng.com

Mount Structural Analysis Report
 (3) 13.46-Ft T-Arm

July 24, 2023
 Site ID: 5000103134-VZW / NORTH BLOOMFIELD CT
 Page | 5

Requirements:

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

Contractor shall record all dimensions and member sizes requested in the Mount Geometry Verification Requirements section of the Mount Analysis report. Contractor shall provide the requested information to Colliers Engineering & Design CT. P.C. for structural verification while on site. Contact EOR if these documents are not available to the general contractor.

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. Desktop Mount Mapping Form (for reference only)
5. Analysis Calculations

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10207610
 Colliers Engineering & Design CT. P.C. Project #: 23777184

July 24, 2023

Site Information

Site ID: 5000103134-VZW / NORTH BLOOMFIELD CT
 Site Name: NORTH BLOOMFIELD CT
 Carrier Name: Verizon Wireless
 Address: Day Hill Rd
 Bloomfield, Connecticut 06002
 Hartford County
 Latitude: 41.876508°
 Longitude: -72.741840°

Structure Information

Tower Type: 110-Ft Monopole
 Mount Type: 13.46-Ft T-Arm

FUZE ID # 17123869

Analysis Results

T-Arm: 81.7% Pass*

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

*****Contractor PMI Requirements:**

Included at the end of this MA report
 Available & Submitted via portal at <https://pmi.vzwsmart.com>

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

Report Prepared By: Selene Chen



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

SUPPLEMENTAL

SHEET NUMBER: R-601	REVISION: 0
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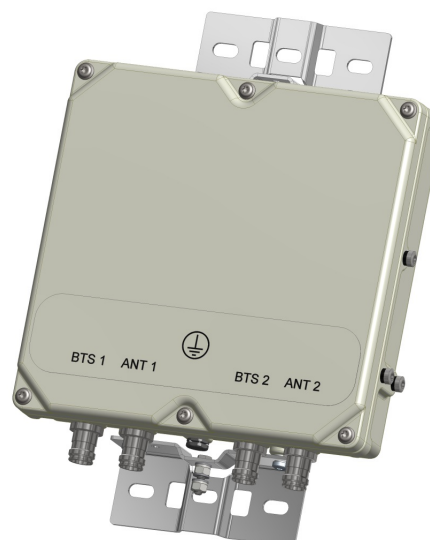
KA-6030

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

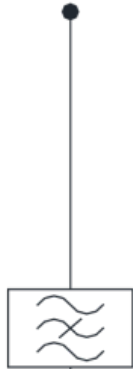
BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 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

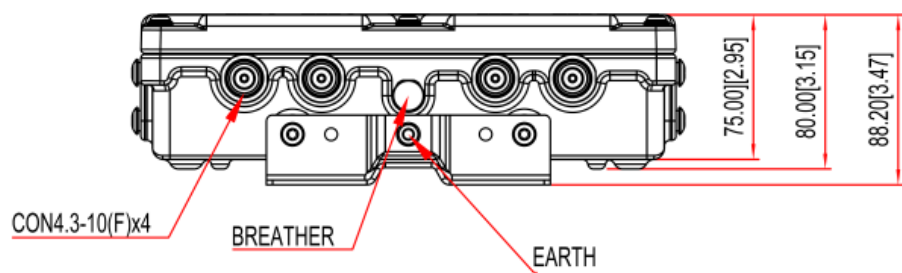
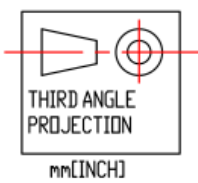
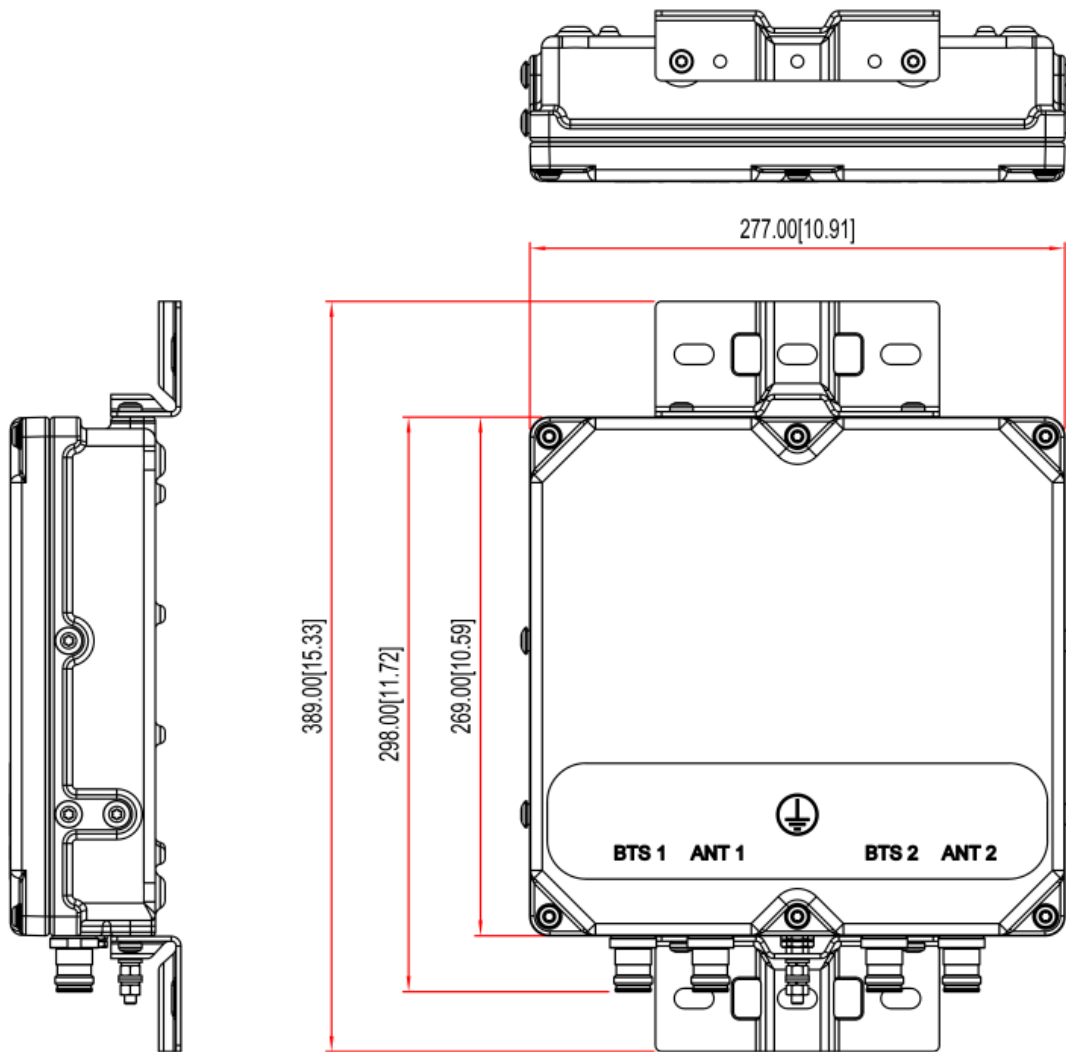


EXHIBIT 2





Town of Bloomfield, CT

Property Listing Report

Map Block Lot

453-62CELL

Building # **1**

PID **101559**

Account

45362C

Property Information

Property Location	2627 DAY HILL RD
Owner	AMERICAN TOWER CORP
Co-Owner	
Mailing Address	PO BOX 723597 ATLANTA GA 31139-0000
Land Use	230 Com Cell Site
Land Class	C
Zoning Code	
Census Tract	

Site Index	
Acreage	0
Utilities	
Lot Setting/Desc	
Fire District	C
Book / Page	0/0

Primary Construction Details

Year Built	0
Building Desc.	Com Cell Site
Building Style	UNKNOWN
Building Grade	
Stories	
Occupancy	
Exterior Walls	
Exterior Walls 2	NA
Roof Style	
Roof Cover	
Interior Walls	
Interior Walls 2	NA
Interior Floors 1	
Interior Floors 2	

Heating Fuel	
Heating Type	
AC Type	
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Bsmt Fin Area	0
Rec Rm Area	0
Bsmt Gar	0
Fireplaces	0

(*Industrial / Commercial Details)

Building Use	Vacant
Building Condition	
Sprinkler %	NA
Heat / AC	NA
Frame Type	NA
Baths / Plumbing	NA
Ceiling / Wall	NA
Rooms / Prtns	NA
Wall Height	NA
First Floor Use	NA
Foundation	NA

Photo



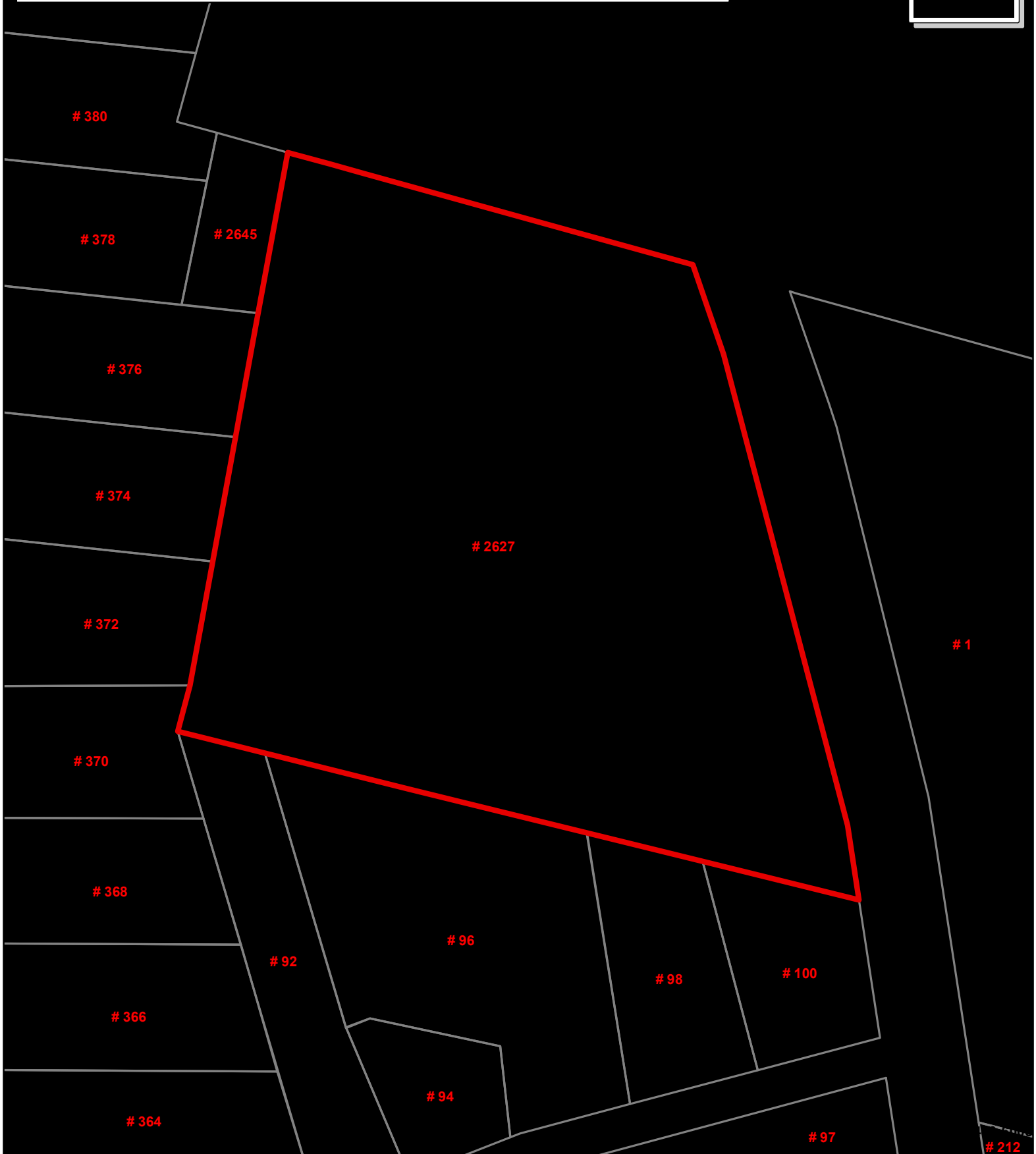
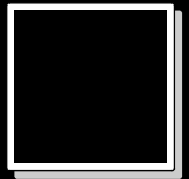
Sketch



Town of Bloomfield, Connecticut - Assessment Parcel Map

MBL: 453-62

Address: 2627 DAY HILL RD



Approximate Scale:

1 inch = 150 feet

Disclaimer:

This map is for informational purposes only.
All information is subject to verification by any user.
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Map Produced October 2019

Parcels labeled by Unique ID

EXHIBIT 3





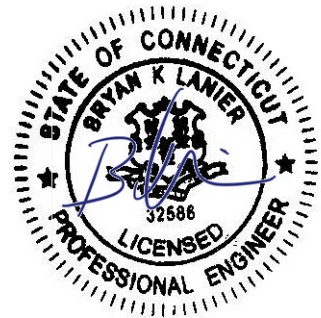
AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 109 ft Monopole
ATC Asset Name : NORTH BLOOMFIELD CT
ATC Asset Number : 283562
Engineering Number : 14519454_C3_03
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : NORTH BLOOMFIELD CT
Carrier Site Number : 5000103134
Site Location : 2627 Day Hill Road
Bloomfield, CT 06002-1177
41.8766° N, 72.7419° W
County : Hartford
Date : September 21, 2023
Max Usage : 100%
Analysis Result : Pass

Created By:

Josh Yoder
Structural Engineer



COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 109 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	Sabre Job #67167, dated October 15, 2012
Foundation:	Sabre Job #67167, dated September 19, 2012
Geotechnical:	DET Job #2011-20, dated January 28, 2012
Modification:	ATC Job #OAA761819_C6_03, dated March 1, 2021

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:	116 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.50" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.18, S_i = 0.05$
Site Class:	D - Stiff Soil - Default

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

Conclusion

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

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact Engineering@americantower.com. Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

Structure Usages

Structural Component	Usage	Control	Result
Pole Shaft	96.6%	1.2D + 1.0W	Pass
Reinforcement	99.7%	0 ft to 54.25 ft	Pass
Upper Termination	93.6%	0 ft to 54.25 ft	Pass
Intermediate Connector	47.8%	0 ft to 54.25 ft	Pass
Serviceability Usage	58.4%	1.0D + 1.0W	Pass
Upper Flange Plate @ 124.0 ft	24.3%	Bolts	Pass
Upper Flange Plate @ 109.0 ft	52.6%	Bolts	Pass
Base Plate @ 0.0 ft	71.7%	Rods	Pass
Foundation	77.4%	-	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	2,380.5	39.4	26.0

**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
111.0	3	Samsung B2/B66A RRH-BR049	-
110.0	1	Raycap RC3DC-3315-PF-48	(6) 1 5/8" Coax (2) 1 5/8" Hybriflex
	1	Raycap RC3DC-3315-PF-48	
	3	Commscope CBC78T-DS-43-2X	
	3	Sector Frame	
	3	Samsung B5/B13 RRH-BR04C	
	4	Kaelus KA-6030	
	6	Antel LPA-80063/6CF	
	6	Commscope JAHH-65B-R3B	
109.0	3	Samsung MT6407-77A	-
108.0	-	-	(12) 1 5/8" Coax

Install proposed lines inside the pole shaft.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
139.9	2	Raycap DC9-48-60-24-8C-EV	-	AT&T MOBILITY
135.0	3	Sector Frame	-	-
	3	CCI DMP65R-BU8D	(2) 0.40" (10.3mm) Fiber (5) 0.96" (24.3mm) Cable (3) 2" conduit	AT&T MOBILITY
	3	CCI HPA65R-BU8A		
	3	CCI TPA65R-BU8D		
	3	Ericsson RRUS 4415 B30		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14		
	3	Ericsson RRUS 8843 B2, B66A		
	3	Ericsson RRUS E2 B29		
100.0	1	Perfect Vision PV-LPPGS-12M-HR25-AP4 Triangular Platform w/ HandrailsRails		
	3	Ericsson 4460 BAND 2/25		
	3	Ericsson Air6449 B41		
	3	Ericsson Radio 4449 B71 B85A		
	3	RFS APXVAARR24_43-U-NA20		

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



Standard Conditions

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

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

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

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

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

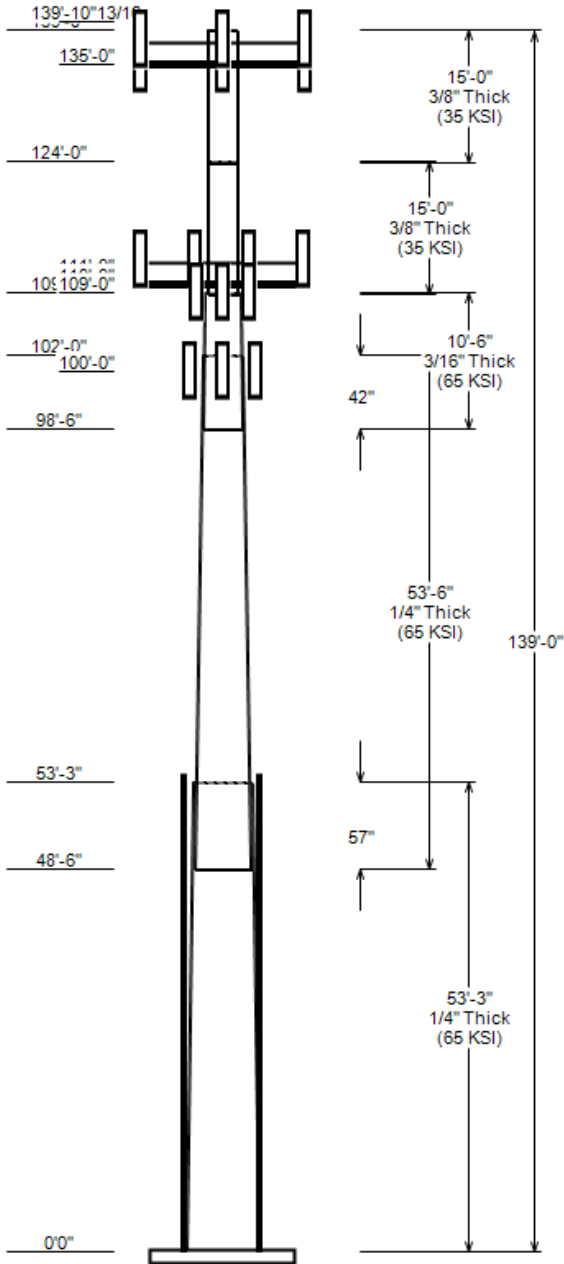
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

ANALYSIS PARAMETERS

Nominal Wind: 113 mph	Ice Wind: 49 mph w/ 1.28" ice	Service Wind: 60 mph
Risk Category: II	Exposure: C	S _s : 0.177 S _i : 0.054
Topo Category: 1	Topo Factor: Method 1	Topo Feature:
Structure Height: 139 ft	Base Elevation: 0.00 ft	Structure Type: Custom
Base Diameter: 42.92 in	Base Rotation: 0°	Taper: 0.2000 (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	53.250	32.27	42.92	0.250		0.000	18 Sides	65
2	53.500	23.02	33.72	0.250	Slip Joint	57.000	18 Sides	65
3	10.500	22.00	24.10	0.188	Slip Joint	42.000	18 Sides	65
4	15.000	18.00	18.00	0.375	Butt Joint	0.000	Round	35
5	15.000	18.00	18.00	0.375	Butt Joint	0.000	Round	35



DISCRETE APPURTENANCE

Elev (ft)	Description
139.9	(2) Raycap DC9-48-60-24-8C-EV
135.0	(3) Ericsson RRUS 8843 B2, B66A
135.0	(3) Ericsson RRUS 4415 B30
135.0	(3) Ericsson RRUS 4449 B5, B12
135.0	(3) Ericsson RRUS 4478 B14
135.0	(3) Ericsson RRUS E2 B29
135.0	(3) CCI HPA65R-BU8A
135.0	(3) Generic Round Sector Frame
135.0	(3) CCI DMP65R-BU8D
135.0	(3) CCI TPA65R-BU8D
111.0	(3) Samsung B2/B66A RRH-BR049
110.0	(3) Commscope CBC78T-DS-43-2X
110.0	(4) Kaelus KA-6030
110.0	(3) Samsung B5/B13 RRH-BR04C
110.0	(1) Raycap RC3DC-3315-PF-48
110.0	(1) Raycap RC3DC-3315-PF-48
110.0	(6) Commscope JAHH-65B-R3B
110.0	(6) Antel LPA-80063/6CF
110.0	(3) Generic Round Sector Frame
109.0	(3) Samsung MT6407-77A
100.0	(3) Ericsson Radio 4449 B71 B85A
100.0	(3) Ericsson 4460 BAND 2/25
100.0	(3) Ericsson Air6449 B41
100.0	(3) RFS APXVAARR24_43-U-NA20
100.0	(1) Perfect Vision PV-LPPGS-12M-HR

LINEAR APPURTENANCE

Elev To (ft)	Description
135.0	(3) 2" conduit
135.0	(5) 0.96" (24.3mm) Cable
135.0	(2) 0.40" (10.3mm) Fiber
110.0	(1) 1 5/8" Hybriflex
110.0	(1) 1 5/8" Hybriflex
110.0	(6) 1 5/8" Coax
108.0	(12) 1 5/8" Coax
100.0	(3) 1.99" (50.7mm) Hybrid
100.0	(3) 1 5/8" (1.63"-41.3mm) Fiber
61.5	(1) #20 w/ Angle Brackets
61.5	(1) #20 w/ Angle Brackets
61.5	(1) #20 w/ Angle Brackets
61.5	(1) #20 w/ Angle Brackets

GLOBAL BASE REACTIONS

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	2380.49	39.41	25.99
0.9D + 1.0W	2342.11	29.54	25.97
1.2D + 1.0Di + 1.0Wi	661.29	59.46	6.35
1.2D + 1.0Ev + 1.0Eh	115.09	39.20	0.99
0.9D - 1.0Ev + 1.0Eh	112.68	27.31	0.99
1.0D + 1.0W	594.71	32.88	6.55

ANALYSIS PARAMETERS

Location:	Hartford County,CT	Height:	139 ft
Type and Shape:	Custom, Round	Base Diameter:	42.92 in
Manufacturer:	Sabre	Top Diameter:	18.00 in
K_d (non-service):	0.95	Taper:	0.2000 in/ft
K_e:	0.99	Rotation:	0.000°

ICE & WIND PARAMETERS

Risk Category:	II	Design Wind Speed:	113 mph
Exposure Category:	C	Design Wind Speed w/ Ice:	49 mph
Topo Factor Procedure:	Method 1	Design Ice Thickness:	1.28 in
Topographic Category:	1	Service Wind Speed:	60 mph
Crest Height:	0 ft	HMSL:	179.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	2.71
T_L (sec):	6	P:	1
S_s:	0.177	S₁:	0.054
F_a:	1.600	F_v:	2.400
S_{ds}:	0.189	S_{d1}:	0.086
		C_s:	0.030
		C_s Max:	0.030
		C_s Min:	0.030

LOAD CASES

1.2D + 1.0W	113.06 mph Wind with No Ice
0.9D + 1.0W	113.06 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	48.73 mph Wind with 1.275" 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	53.25	0.2500	65		0.00	5,369	42.92	0.000	33.86	7,788.5	28.51	171.68	32.27	53.25	25.41	3,291.2	21.00	129.09	0.2000	
2-18	53.50	0.2500	65	Slip	57.00	4,062	33.72	48.500	26.56	3,758.8	22.02	134.89	23.02	102.00	18.07	1,183.5	14.47	92.10	0.2000	
3-18	10.50	0.1875	65	Slip	42.00	486	24.10	98.500	14.23	1,027.4	20.90	128.53	22.00	109.00	12.98	779.8	18.92	117.33	0.2000	
4-R	15.00	0.3750	35	Butt	0.00	1,060	18.00	109.000	20.76	806.9	0.00	48.00	18.00	124.00	20.76	806.9	0.00	48.00	0.0000	
5-R	15.00	0.3750	35	Butt	0.00	1,060	18.00	124.000	20.76	806.9	0.00	48.00	18.00	139.00	20.76	806.9	0.00	48.00	0.0000	
Total Shaft Weight						12,037														

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
139.90	Raycap DC9-48-60-24-8C-EV	2	0.80	0.000	16.00	4.788	0.75	124.97	6.030	0.75
135.00	Ericsson RRUS 4478 B14	3	0.80	3.300	59.40	2.021	0.50	111.03	2.815	0.50
135.00	Generic Round Sector Frame	3	0.75	0.000	700.00	14.400	0.67	1520.48	28.325	0.67
135.00	CCI DMP65R-BU8D	3	0.80	1.400	95.70	17.871	0.63	381.63	20.971	0.63
135.00	CCI TPA65R-BU8D	3	0.80	1.300	82.50	18.089	0.63	372.55	21.195	0.63
135.00	Ericsson RRUS E2 B29	3	0.80	0.000	60.00	3.145	0.50	128.04	4.120	0.50
135.00	CCI HPA65R-BU8A	3	0.80	0.000	54.00	11.230	0.71	249.42	13.942	0.71
135.00	Ericsson RRUS 4449 B5, B12	3	0.80	0.000	71.00	1.969	0.50	125.22	2.754	0.50
135.00	Ericsson RRUS 4415 B30	3	0.80	2.600	46.00	1.842	0.50	87.25	2.597	0.50
135.00	Ericsson RRUS 8843 B2, B66A	3	0.80	3.300	72.00	1.639	0.50	123.56	2.350	0.50
111.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	137.10	2.621	0.50
110.00	Commscope CBC78T-DS-43-2X	3	0.80	0.000	20.70	0.552	0.50	38.93	0.971	0.50
110.00	Kaelus KA-6030	4	0.80	0.000	17.60	0.963	0.50	37.06	1.502	0.50
110.00	Antel LPA-80063/6CF	6	0.80	2.000	27.00	9.593	0.76	258.22	10.701	0.76
110.00	Raycap RC3DC-3315-PF-48	1	0.80	2.000	32.00	3.781	0.67	122.29	4.875	0.67
110.00	Raycap RC3DC-3315-PF-48	1	0.80	2.000	32.00	3.781	0.67	122.29	4.875	0.67
110.00	Commscope JAHH-65B-R3B	6	0.80	2.000	60.60	9.113	0.69	227.57	11.403	0.69
110.00	Generic Round Sector Frame	3	0.75	0.000	700.00	14.400	0.67	1504.99	28.062	0.67
110.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	117.51	2.620	0.50
109.00	Samsung MT6407-77A	3	0.80	0.000	81.60	5.470	0.65	165.53	6.923	0.65
100.00	Perfect Vision PV-LPPGS-12M-HR	1	1.00	0.000	2500.00	27.200	1.00	3923.42	42.687	1.00
100.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	448.75	23.274	0.63
100.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	215.38	6.979	0.63
100.00	Ericsson 4460 BAND 2/25	3	0.75	0.000	109.00	2.564	0.50	181.24	3.425	0.50
100.00	Ericsson Radio 4449 B71 B85A	3	0.75	0.000	75.00	1.650	0.30	124.15	2.344	0.30
Totals	Row Count: 25	75			11,032.50			25,579.20		

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	135.00	5	0.96" (24.3mm) Cable	0.96	0.88	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	135.00	3	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	135.00	2	0.40" (10.3mm) Fiber	0.4	0.09	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	110.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	110.00	1	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	110.00	1	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	108.00	12	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	100.00	3	1.99" (50.7mm) Hybrid	1.99	1.9	N	0	0	0	0	0	N	T-MOBILE
0.00	100.00	3	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0	0	0	0	N	T-MOBILE
0.00	61.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	90	0	Y	AT&T MOBILITY
0.00	61.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	0	0	Y	AT&T MOBILITY
0.00	61.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	180	0	Y	AT&T MOBILITY
0.00	61.50	1	#20 w/ Angle Brackets	4	4.68	N	1	0	0	270	0	Y	AT&T MOBILITY

ADDITIONAL STEEL

Intermediate Connectors

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Bracket Type	Spacing (in)	Length (in)	Connectors	Continuation?
0.00	54.25	4	SOL #20 All Thread Bar	61	2.19	6" Angle Bracket	30.00	3.31	5/8" A36 U-Bolt	N

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)	Additional Reinforcing		
												Area (in ²)	Ix (in ⁴)	Weight (lb)
0.00		0.2500	42.920	33.857	7,788.50	28.51	171.68	67.9	357.4	0.0	0.0	19.640	6,150.40	0.0
5.00		0.2500	41.920	33.064	7,253.60	27.80	167.68	68.7	340.8	0.0	569.3	19.640	5,903.50	334.0
10.00		0.2500	40.920	32.270	6,743.80	27.10	163.68	69.5	324.6	0.0	555.8	19.640	5,661.70	334.0
15.00		0.2500	39.920	31.477	6,258.50	26.39	159.68	70.4	308.8	0.0	542.3	19.640	5,425.00	334.0
20.00		0.2500	38.920	30.684	5,797.00	25.69	155.68	71.2	293.4	0.0	528.8	19.640	5,193.30	334.0
25.00		0.2500	37.920	29.890	5,358.80	24.98	151.68	72	278.3	0.0	515.3	19.640	4,966.70	334.0
30.00		0.2500	36.920	29.097	4,943.30	24.28	147.68	72.8	263.7	0.0	501.8	19.640	4,745.20	334.0
35.00		0.2500	35.920	28.303	4,549.80	23.57	143.68	73.7	249.5	0.0	488.3	19.640	4,528.70	334.0
40.00		0.2500	34.920	27.510	4,177.80	22.87	139.68	74.5	235.6	0.0	474.8	19.640	4,317.30	334.0
45.00		0.2500	33.920	26.716	3,826.60	22.16	135.68	75.3	222.2	0.0	461.3	19.640	4,110.90	334.0
48.50	Bot - Section 2	0.2500	33.220	26.161	3,592.90	21.67	132.88	75.9	213.0	0.0	314.9	19.640	3,969.50	233.8
50.00		0.2500	32.920	25.923	3,495.70	21.46	131.68	76.2	209.1	0.0	267.9	19.640	4,009.60	100.2
53.25	Top - Section 1	0.2500	32.770	25.804	3,447.80	21.35	131.08	76.3	207.2	0.0	572.0	19.640	3,879.80	217.1
54.25	Reinf. Top	0.2500	32.570	25.645	3,384.50	21.21	130.28	76.5	204.7	0.0	87.5	19.640	3,840.30	66.8
55.00		0.2500	32.420	25.526	3,337.60	21.10	129.68	76.6	202.8	0.0	65.3			
60.00		0.2500	31.420	24.733	3,036.00	20.40	125.68	77.4	190.3	0.0	427.5			
65.00		0.2500	30.420	23.939	2,753.00	19.69	121.68	78.2	178.3	0.0	414.0			
70.00		0.2500	29.420	23.146	2,488.20	18.99	117.68	79.1	166.6	0.0	400.5			
75.00		0.2500	28.420	22.352	2,241.00	18.28	113.68	79.9	155.3	0.0	387.0			
80.00		0.2500	27.420	21.559	2,010.70	17.58	109.68	80.7	144.4	0.0	373.5			
85.00		0.2500	26.420	20.765	1,796.80	16.87	105.68	81.6	134.0	0.0	360.0			
90.00		0.2500	25.420	19.972	1,598.60	16.17	101.68	82.4	123.9	0.0	346.5			
95.00		0.2500	24.420	19.178	1,415.50	15.46	97.68	82.6	114.2	0.0	333.0			
98.50	Bot - Section 3	0.2500	23.720	18.623	1,296.10	14.97	94.88	82.6	107.6	0.0	225.1			
100.00		0.2500	23.420	18.385	1,247.00	14.76	93.68	82.6	104.9	0.0	166.6			
102.00	Top - Section 2	0.1875	23.395	13.811	939.80	20.24	124.77	77.6	79.1	0.0	218.8			
105.00		0.1875	22.795	13.454	868.80	19.67	121.57	78.3	75.1	0.0	139.2			
109.00	Top - Section 3	0.1875	21.995	12.978	779.80	18.92	117.31	79.1	69.8	0.0	179.9			
109.00	Bot - Section 4	0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5				
110.00		0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	70.7			
111.00		0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	70.7			
115.00		0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	282.6			
120.00		0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	353.3			
124.00	Top - Section 4	0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	282.6			
124.00	Bot - Section 5	0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5				
125.00		0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	70.7			
130.00		0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	353.3			
135.00		0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	353.3			
139.00		0.3750	18.000	20.764	806.90	0.00	48.00	35	89.7	116.5	282.6			
Totals:											12,036.7	3,623.9		

CALCULATED FORCES

Load Case: 1.2D + 1.0W 113.06 mph Wind with No Ice 26 Iterations

Gust Response Factor: 1.10
 Dead load Factor: 1.20
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-39.41	-25.99	0.00	-2,380.5	0.00	2,380.49	2,068.11	594.20	2,289.94	1,819.33	0	0	0.745
5.00	-37.84	-25.55	0.00	-2,250.5	0.00	2,250.53	2,044.32	580.27	2,183.87	1,756.02	0.13	-0.24	0.720
10.00	-36.30	-25.09	0.00	-2,122.8	0.00	2,122.79	2,019.36	566.35	2,080.32	1,692.70	0.5	-0.47	0.695
15.00	-34.79	-24.62	0.00	-1,997.3	0.00	1,997.32	1,993.20	552.42	1,979.29	1,629.44	1.13	-0.71	0.669

CALCULATED FORCES

20.00	-33.29	-24.12	0.00	-1,874.2	0.00	1,874.22	1,965.87	538.50	1,880.77	1,566.33	2	-0.94	0.643
25.00	-31.81	-23.48	0.00	-1,753.6	0.00	1,753.61	1,937.35	524.57	1,784.76	1,503.43	3.11	-1.18	0.617
30.00	-30.36	-22.82	0.00	-1,636.2	0.00	1,636.19	1,907.64	510.65	1,691.27	1,440.82	4.48	-1.41	0.591
35.00	-28.94	-22.14	0.00	-1,522.1	0.00	1,522.09	1,876.75	496.72	1,600.29	1,378.57	6.08	-1.64	0.564
40.00	-27.53	-21.44	0.00	-1,411.4	0.00	1,411.40	1,844.67	482.79	1,511.83	1,316.76	7.93	-1.87	0.538
45.00	-26.16	-20.80	0.00	-1,304.2	0.00	1,304.21	1,811.41	468.87	1,425.89	1,255.46	10.01	-2.1	0.511
48.50	-25.22	-20.40	0.00	-1,231.4	0.00	1,231.40	1,787.43	459.12	1,367.22	1,212.88	11.62	-2.26	0.492
50.00	-24.64	-20.08	0.00	-1,200.8	0.00	1,200.79	1,776.97	454.94	1,342.46	1,194.73	12.34	-2.33	0.478
53.25	-23.43	-19.71	0.00	-1,135.5	0.00	1,135.52	1,771.70	452.85	1,330.16	1,185.68	13.97	-2.47	0.460
54.25	-23.17	-19.58	0.00	-1,115.8	0.00	1,115.81	1,764.63	450.07	1,313.85	1,173.63	14.5	-2.52	0.455
54.25	-23.17	-19.58	0.00	-1,115.8	0.00	1,115.81	1,764.63	450.07	1,313.85	1,173.63	14.5	-2.52	0.966
55.00	-22.97	-19.29	0.00	-1,101.1	0.00	1,101.13	1,759.30	447.98	1,301.68	1,164.62	14.9	-2.55	0.960
60.00	-21.97	-18.65	0.00	-1,004.7	0.00	1,004.69	1,723.08	434.06	1,222.03	1,104.91	17.81	-3	0.924
65.00	-21.08	-18.14	0.00	-911.4	0.00	911.42	1,685.67	420.13	1,144.88	1,045.97	21.19	-3.45	0.886
70.00	-20.22	-17.89	0.00	-820.7	0.00	820.74	1,647.08	406.20	1,070.25	987.87	25.04	-3.9	0.845
75.00	-19.39	-17.63	0.00	-731.3	0.00	731.32	1,607.30	392.28	998.14	930.68	29.36	-4.34	0.800
80.00	-18.58	-17.37	0.00	-643.2	0.00	643.18	1,566.34	378.35	928.54	874.48	34.13	-4.78	0.749
85.00	-17.80	-17.10	0.00	-556.4	0.00	556.36	1,524.19	364.43	861.46	819.35	39.36	-5.2	0.693
90.00	-17.04	-16.82	0.00	-470.9	0.00	470.87	1,480.86	350.50	796.89	765.35	45.02	-5.61	0.629
95.00	-16.32	-16.57	0.00	-386.8	0.00	386.76	1,424.84	336.58	734.84	706.85	51.09	-5.99	0.561
98.50	-15.84	-16.42	0.00	-328.8	0.00	328.76	1,383.58	326.83	692.90	666.30	55.57	-6.24	0.507
100.00	-11.40	-12.90	0.00	-304.1	0.00	304.13	1,365.89	322.65	675.30	649.29	57.54	-6.34	0.478
102.00	-11.04	-12.74	0.00	-278.3	0.00	278.33	964.52	242.38	508.07	460.47	60.22	-6.48	0.619
105.00	-10.73	-12.54	0.00	-240.1	0.00	240.11	947.62	236.11	482.14	440.61	64.34	-6.66	0.559
109.00	-10.10	-11.98	0.00	-190.0	0.00	189.95	924.42	227.76	448.63	414.49	70.04	-6.95	0.472
109.00	-10.10	-11.98	0.00	-190.0	0.00	189.95	654.06	196.22	304.05	305.83	70.04	-6.95	0.640
110.00	-6.89	-7.33	0.00	-171.9	0.00	171.87	654.06	196.22	304.05	305.83	71.5	-7.01	0.574
111.00	-6.49	-7.10	0.00	-164.5	0.00	164.54	654.06	196.22	304.05	305.83	72.97	-7.07	0.549
115.00	-6.08	-6.89	0.00	-136.2	0.00	136.15	654.06	196.22	304.05	305.83	78.97	-7.28	0.456
120.00	-5.57	-6.66	0.00	-101.7	0.00	101.70	654.06	196.22	304.05	305.83	86.69	-7.49	0.342
124.00	-5.16	-6.51	0.00	-75.1	0.00	75.06	654.06	196.22	304.05	305.83	93.01	-7.62	0.254
125.00	-5.07	-6.38	0.00	-68.5	0.00	68.54	654.06	196.22	304.05	305.83	94.6	-7.64	0.233
130.00	-4.58	-6.12	0.00	-36.6	0.00	36.63	654.06	196.22	304.05	305.83	102.64	-7.74	0.128
135.00	-0.33	-0.38	0.00	-1.7	0.00	1.74	654.06	196.22	304.05	305.83	110.74	-7.77	0.006
139.00	0.00	-0.33	0.00	-0.2	0.00	0.24	654.06	196.22	304.05	305.83	117.24	-7.78	0.001

CALCULATED FORCES

Load Case: 0.9D + 1.0W 113.06 mph Wind with No Ice (Reduced DL) 26 Iterations
 Gust Response Factor: 1.10
 Dead load Factor: 0.90
 Wind Load Factor: 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-29.54	-25.97	0.00	-2,342.1	0.00	2,342.11	2,068.11	594.20	2,289.94	1,819.33	0	0	0.730
5.00	-28.35	-25.49	0.00	-2,212.3	0.00	2,212.26	2,044.32	580.27	2,183.87	1,756.02	0.13	-0.23	0.705
10.00	-27.17	-24.99	0.00	-2,084.8	0.00	2,084.82	2,019.36	566.35	2,080.32	1,692.70	0.5	-0.46	0.680
15.00	-26.01	-24.49	0.00	-1,959.8	0.00	1,959.85	1,993.20	552.42	1,979.29	1,629.44	1.11	-0.7	0.654
20.00	-24.86	-23.96	0.00	-1,837.4	0.00	1,837.43	1,965.87	538.50	1,880.77	1,566.33	1.96	-0.93	0.628
25.00	-23.74	-23.29	0.00	-1,717.6	0.00	1,717.64	1,937.35	524.57	1,784.76	1,503.43	3.06	-1.16	0.602
30.00	-22.64	-22.60	0.00	-1,601.2	0.00	1,601.19	1,907.64	510.65	1,691.27	1,440.82	4.4	-1.39	0.576
35.00	-21.55	-21.90	0.00	-1,488.2	0.00	1,488.18	1,876.75	496.72	1,600.29	1,378.57	5.97	-1.61	0.550
40.00	-20.49	-21.18	0.00	-1,378.7	0.00	1,378.69	1,844.67	482.79	1,511.83	1,316.76	7.78	-1.84	0.523
45.00	-19.45	-20.53	0.00	-1,272.8	0.00	1,272.80	1,811.41	468.87	1,425.89	1,255.46	9.83	-2.06	0.497
48.50	-18.73	-20.13	0.00	-1,200.9	0.00	1,200.94	1,787.43	459.12	1,367.22	1,212.88	11.4	-2.22	0.478
50.00	-18.30	-19.80	0.00	-1,170.8	0.00	1,170.75	1,776.97	454.94	1,342.46	1,194.73	12.1	-2.28	0.464
53.25	-17.39	-19.43	0.00	-1,106.4	0.00	1,106.39	1,771.70	452.85	1,330.16	1,185.68	13.71	-2.42	0.446
54.25	-17.19	-19.29	0.00	-1,087.0	0.00	1,086.96	1,764.63	450.07	1,313.85	1,173.63	14.22	-2.47	0.441
54.25	-17.19	-19.29	0.00	-1,087.0	0.00	1,086.96	1,764.63	450.07	1,313.85	1,173.63	14.22	-2.47	0.938
55.00	-17.03	-18.98	0.00	-1,072.5	0.00	1,072.49	1,759.30	447.98	1,301.68	1,164.62	14.61	-2.5	0.932
60.00	-16.26	-18.31	0.00	-977.6	0.00	977.58	1,723.08	434.06	1,222.03	1,104.91	17.46	-2.93	0.896
65.00	-15.57	-17.76	0.00	-886.0	0.00	886.04	1,685.67	420.13	1,144.88	1,045.97	20.77	-3.37	0.858
70.00	-14.90	-17.47	0.00	-797.2	0.00	797.25	1,647.08	406.20	1,070.25	987.87	24.53	-3.81	0.818
75.00	-14.26	-17.19	0.00	-709.9	0.00	709.88	1,607.30	392.28	998.14	930.68	28.74	-4.24	0.774
80.00	-13.63	-16.90	0.00	-623.9	0.00	623.94	1,566.34	378.35	928.54	874.48	33.4	-4.66	0.724
85.00	-13.03	-16.61	0.00	-539.4	0.00	539.44	1,524.19	364.43	861.46	819.35	38.5	-5.07	0.669
90.00	-12.44	-16.32	0.00	-456.4	0.00	456.39	1,480.86	350.50	796.89	765.35	44.02	-5.47	0.607
95.00	-11.89	-16.06	0.00	-374.8	0.00	374.80	1,424.84	336.58	734.84	706.85	49.94	-5.84	0.541
98.50	-11.52	-15.90	0.00	-318.6	0.00	318.58	1,383.58	326.83	692.90	666.30	54.3	-6.08	0.489
100.00	-8.26	-12.52	0.00	-294.7	0.00	294.73	1,365.89	322.65	675.30	649.29	56.23	-6.18	0.461
102.00	-7.99	-12.36	0.00	-269.7	0.00	269.69	964.52	242.38	508.07	460.47	58.84	-6.31	0.597
105.00	-7.75	-12.16	0.00	-232.6	0.00	232.61	947.62	236.11	482.14	440.61	62.85	-6.49	0.539
109.00	-7.29	-11.61	0.00	-184.0	0.00	183.99	924.42	227.76	448.63	414.49	68.4	-6.76	0.454
109.00	-7.29	-11.61	0.00	-184.0	0.00	183.99	654.06	196.22	304.05	305.83	68.4	-6.76	0.616
110.00	-4.99	-7.08	0.00	-166.3	0.00	166.28	654.06	196.22	304.05	305.83	69.82	-6.83	0.553
111.00	-4.69	-6.85	0.00	-159.2	0.00	159.20	654.06	196.22	304.05	305.83	71.25	-6.89	0.529
115.00	-4.38	-6.65	0.00	-131.8	0.00	131.79	654.06	196.22	304.05	305.83	77.1	-7.09	0.439
120.00	-4.00	-6.44	0.00	-98.5	0.00	98.52	654.06	196.22	304.05	305.83	84.62	-7.29	0.329
124.00	-3.70	-6.30	0.00	-72.8	0.00	72.78	654.06	196.22	304.05	305.83	90.76	-7.41	0.245
125.00	-3.63	-6.17	0.00	-66.5	0.00	66.48	654.06	196.22	304.05	305.83	92.32	-7.44	0.224
130.00	-3.27	-5.92	0.00	-35.6	0.00	35.61	654.06	196.22	304.05	305.83	100.14	-7.53	0.122
135.00	-0.24	-0.36	0.00	-1.7	0.00	1.68	654.06	196.22	304.05	305.83	108.02	-7.57	0.006
139.00	0.00	-0.33	0.00	-0.2	0.00	0.24	654.06	196.22	304.05	305.83	114.34	-7.57	0.001

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi													48.73 mph Wind with 1.275" Radial Ice		26 Iterations
Gust Response Factor:		1.10	Ice Dead Load Factor				1.00	Ice Importance Factor					1.00		
Dead load Factor:		1.20													
Wind Load Factor:		1.00													
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio		
0.00	-59.46	-6.35	0.00	-661.3	0.00	661.29	2,068.11	594.20	2,289.94	1,819.33	0	0	0.221		
5.00	-57.68	-6.29	0.00	-629.6	0.00	629.56	2,044.32	580.27	2,183.87	1,756.02	0.04	-0.07	0.215		
10.00	-55.88	-6.24	0.00	-598.1	0.00	598.10	2,019.36	566.35	2,080.32	1,692.70	0.14	-0.13	0.209		
15.00	-54.09	-6.18	0.00	-566.9	0.00	566.92	1,993.20	552.42	1,979.29	1,629.44	0.31	-0.2	0.203		
20.00	-52.31	-6.11	0.00	-536.0	0.00	536.04	1,965.87	538.50	1,880.77	1,566.33	0.56	-0.27	0.197		
25.00	-50.54	-6.04	0.00	-505.5	0.00	505.48	1,937.35	524.57	1,784.76	1,503.43	0.87	-0.33	0.190		
30.00	-48.79	-5.96	0.00	-475.3	0.00	475.28	1,907.64	510.65	1,691.27	1,440.82	1.26	-0.4	0.184		
35.00	-47.05	-5.87	0.00	-445.5	0.00	445.49	1,876.75	496.72	1,600.29	1,378.57	1.72	-0.47	0.177		
40.00	-45.34	-5.78	0.00	-416.1	0.00	416.11	1,844.67	482.79	1,511.83	1,316.76	2.24	-0.54	0.170		
45.00	-43.64	-5.70	0.00	-387.2	0.00	387.19	1,811.41	468.87	1,425.89	1,255.46	2.84	-0.6	0.163		
48.50	-42.47	-5.65	0.00	-367.2	0.00	367.24	1,787.43	459.12	1,367.22	1,212.88	3.3	-0.65	0.158		
50.00	-41.80	-5.60	0.00	-358.8	0.00	358.76	1,776.97	454.94	1,342.46	1,194.73	3.51	-0.67	0.153		
53.25	-40.38	-5.55	0.00	-340.6	0.00	340.56	1,771.70	452.85	1,330.16	1,185.68	3.98	-0.71	0.148		
54.25	-40.04	-5.53	0.00	-335.0	0.00	335.01	1,764.63	450.07	1,313.85	1,173.63	4.13	-0.73	0.147		
54.25	-40.04	-5.53	0.00	-335.0	0.00	335.01	1,764.63	450.07	1,313.85	1,173.63	4.13	-0.73	0.308		
55.00	-39.85	-5.50	0.00	-330.9	0.00	330.86	1,759.30	447.98	1,301.68	1,164.62	4.25	-0.74	0.307		
60.00	-38.60	-5.45	0.00	-303.3	0.00	303.34	1,723.08	434.06	1,222.03	1,104.91	5.09	-0.87	0.297		
65.00	-37.50	-5.39	0.00	-276.1	0.00	276.11	1,685.67	420.13	1,144.88	1,045.97	6.08	-1.01	0.286		
70.00	-36.49	-5.34	0.00	-249.2	0.00	249.15	1,647.08	406.20	1,070.25	987.87	7.21	-1.14	0.275		
75.00	-35.50	-5.28	0.00	-222.5	0.00	222.46	1,607.30	392.28	998.14	930.68	8.48	-1.28	0.261		
80.00	-34.53	-5.22	0.00	-196.0	0.00	196.05	1,566.34	378.35	928.54	874.48	9.89	-1.41	0.246		
85.00	-33.59	-5.16	0.00	-169.9	0.00	169.94	1,524.19	364.43	861.46	819.35	11.44	-1.54	0.230		
90.00	-32.67	-5.09	0.00	-144.2	0.00	144.15	1,480.86	350.50	796.89	765.35	13.12	-1.67	0.211		
95.00	-31.77	-5.02	0.00	-118.7	0.00	118.71	1,424.84	336.58	734.84	706.85	14.93	-1.78	0.190		
98.50	-31.16	-4.98	0.00	-101.1	0.00	101.13	1,383.58	326.83	692.90	666.30	16.27	-1.86	0.175		
100.00	-23.80	-3.99	0.00	-93.7	0.00	93.66	1,365.89	322.65	675.30	649.29	16.86	-1.89	0.162		
102.00	-23.37	-3.94	0.00	-85.7	0.00	85.68	964.52	242.38	508.07	460.47	17.66	-1.93	0.211		
105.00	-22.95	-3.88	0.00	-73.9	0.00	73.86	947.62	236.11	482.14	440.61	18.89	-1.99	0.192		
109.00	-21.92	-3.73	0.00	-58.3	0.00	58.33	924.42	227.76	448.63	414.49	20.6	-2.08	0.165		
109.00	-21.92	-3.73	0.00	-58.3	0.00	58.33	654.06	196.22	304.05	305.83	20.6	-2.08	0.225		
110.00	-13.60	-2.34	0.00	-53.3	0.00	53.26	654.06	196.22	304.05	305.83	21.04	-2.1	0.195		
111.00	-13.02	-2.26	0.00	-50.9	0.00	50.92	654.06	196.22	304.05	305.83	21.48	-2.12	0.187		
115.00	-12.47	-2.18	0.00	-41.9	0.00	41.88	654.06	196.22	304.05	305.83	23.28	-2.18	0.156		
120.00	-11.79	-2.08	0.00	-31.0	0.00	30.99	654.06	196.22	304.05	305.83	25.6	-2.25	0.119		
124.00	-11.24	-2.02	0.00	-22.7	0.00	22.66	654.06	196.22	304.05	305.83	27.49	-2.28	0.091		
125.00	-11.10	-1.97	0.00	-20.6	0.00	20.64	654.06	196.22	304.05	305.83	27.97	-2.29	0.085		
130.00	-10.41	-1.85	0.00	-10.8	0.00	10.80	654.06	196.22	304.05	305.83	30.39	-2.32	0.051		
135.00	-0.69	-0.12	0.00	-0.6	0.00	0.55	654.06	196.22	304.05	305.83	32.82	-2.33	0.003		
139.00	0.00	-0.09	0.00	-0.1	0.00	0.06	654.06	196.22	304.05	305.83	34.77	-2.33	0.000		

CALCULATED FORCES

Load Case: 1.0D + 1.0W

60 mph Wind with No Ice

25 Iterations

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

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-32.88	-6.55	0.00	-594.7	0.00	594.71	2,068.11	594.20	2,289.94	1,819.33	0	0	0.193
5.00	-31.66	-6.43	0.00	-562.0	0.00	561.97	2,044.32	580.27	2,183.87	1,756.02	0.03	-0.06	0.186
10.00	-30.45	-6.31	0.00	-529.8	0.00	529.82	2,019.36	566.35	2,080.32	1,692.70	0.13	-0.12	0.180
15.00	-29.26	-6.18	0.00	-498.3	0.00	498.27	1,993.20	552.42	1,979.29	1,629.44	0.28	-0.18	0.173
20.00	-28.08	-6.05	0.00	-467.4	0.00	467.35	1,965.87	538.50	1,880.77	1,566.33	0.5	-0.24	0.166
25.00	-26.92	-5.89	0.00	-437.1	0.00	437.08	1,937.35	524.57	1,784.76	1,503.43	0.78	-0.29	0.159
30.00	-25.76	-5.72	0.00	-407.6	0.00	407.63	1,907.64	510.65	1,691.27	1,440.82	1.12	-0.35	0.153
35.00	-24.63	-5.54	0.00	-379.0	0.00	379.04	1,876.75	496.72	1,600.29	1,378.57	1.52	-0.41	0.146
40.00	-23.50	-5.36	0.00	-351.3	0.00	351.33	1,844.67	482.79	1,511.83	1,316.76	1.98	-0.47	0.139
45.00	-22.40	-5.20	0.00	-324.5	0.00	324.51	1,811.41	468.87	1,425.89	1,255.46	2.5	-0.52	0.132
48.50	-21.63	-5.10	0.00	-306.3	0.00	306.30	1,787.43	459.12	1,367.22	1,212.88	2.9	-0.56	0.127
50.00	-21.17	-5.02	0.00	-298.6	0.00	298.65	1,776.97	454.94	1,342.46	1,194.73	3.08	-0.58	0.123
53.25	-20.17	-4.93	0.00	-282.3	0.00	282.34	1,771.70	452.85	1,330.16	1,185.68	3.49	-0.62	0.119
54.25	-19.96	-4.89	0.00	-277.4	0.00	277.41	1,764.63	450.07	1,313.85	1,173.63	3.62	-0.63	0.117
54.25	-19.96	-4.89	0.00	-277.4	0.00	277.41	1,764.63	450.07	1,313.85	1,173.63	3.62	-0.63	0.248
55.00	-19.84	-4.82	0.00	-273.7	0.00	273.74	1,759.30	447.98	1,301.68	1,164.62	3.72	-0.64	0.246
60.00	-19.10	-4.65	0.00	-249.7	0.00	249.66	1,723.08	434.06	1,222.03	1,104.91	4.44	-0.75	0.237
65.00	-18.43	-4.51	0.00	-226.4	0.00	226.41	1,685.67	420.13	1,144.88	1,045.97	5.28	-0.86	0.228
70.00	-17.81	-4.45	0.00	-203.8	0.00	203.83	1,647.08	406.20	1,070.25	987.87	6.24	-0.97	0.217
75.00	-17.19	-4.38	0.00	-181.6	0.00	181.60	1,607.30	392.28	998.14	930.68	7.32	-1.08	0.206
80.00	-16.60	-4.31	0.00	-159.7	0.00	159.69	1,566.34	378.35	928.54	874.48	8.51	-1.19	0.193
85.00	-16.01	-4.24	0.00	-138.1	0.00	138.13	1,524.19	364.43	861.46	819.35	9.81	-1.29	0.179
90.00	-15.45	-4.17	0.00	-116.9	0.00	116.92	1,480.86	350.50	796.89	765.35	11.22	-1.39	0.163
95.00	-14.89	-4.11	0.00	-96.0	0.00	96.05	1,424.84	336.58	734.84	706.85	12.73	-1.49	0.146
98.50	-14.51	-4.07	0.00	-81.7	0.00	81.66	1,383.58	326.83	692.90	666.30	13.85	-1.55	0.133
100.00	-10.55	-3.20	0.00	-75.6	0.00	75.55	1,365.89	322.65	675.30	649.29	14.34	-1.58	0.124
102.00	-10.27	-3.16	0.00	-69.2	0.00	69.15	964.52	242.38	508.07	460.47	15.01	-1.61	0.161
105.00	-10.03	-3.11	0.00	-59.6	0.00	59.65	947.62	236.11	482.14	440.61	16.04	-1.66	0.146
109.00	-9.49	-2.98	0.00	-47.2	0.00	47.19	924.42	227.76	448.63	414.49	17.46	-1.73	0.124
109.00	-9.49	-2.98	0.00	-47.2	0.00	47.19	654.06	196.22	304.05	305.83	17.46	-1.73	0.169
110.00	-6.39	-1.82	0.00	-42.7	0.00	42.68	654.06	196.22	304.05	305.83	17.82	-1.74	0.149
111.00	-6.05	-1.76	0.00	-40.9	0.00	40.86	654.06	196.22	304.05	305.83	18.19	-1.76	0.143
115.00	-5.71	-1.71	0.00	-33.8	0.00	33.83	654.06	196.22	304.05	305.83	19.68	-1.81	0.119
120.00	-5.28	-1.65	0.00	-25.3	0.00	25.28	654.06	196.22	304.05	305.83	21.61	-1.86	0.091
124.00	-4.93	-1.62	0.00	-18.7	0.00	18.67	654.06	196.22	304.05	305.83	23.18	-1.89	0.069
125.00	-4.85	-1.59	0.00	-17.0	0.00	17.05	654.06	196.22	304.05	305.83	23.58	-1.9	0.063
130.00	-4.42	-1.52	0.00	-9.1	0.00	9.12	654.06	196.22	304.05	305.83	25.58	-1.92	0.037
135.00	-0.31	-0.09	0.00	-0.4	0.00	0.43	654.06	196.22	304.05	305.83	27.6	-1.93	0.002
139.00	0.00	-0.08	0.00	-0.1	0.00	0.06	654.06	196.22	304.05	305.83	29.22	-1.93	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period (S_s):	0.177
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.054
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a :	1.600
Site Coefficient F_v :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.189
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.086
Seismic Response Coefficient (C_s):	0.030
Upper Limit C_s :	0.030
Lower Limit C_s :	0.030
Period based on Rayleigh Method (sec):	2.710
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	2.000
Total Unfactored Dead Load:	32.880 k
Seismic Base Shear (E):	0.990 k

SEISMIC FORCES

Segment	Seismic	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
36		137	283	5,305	0.022	22	350
35		132.5	431	7,565	0.031	31	533
34		127.5	431	7,005	0.029	28	533
33		124.5	86	1,336	0.006	5	107
32		122	345	5,131	0.021	21	427
31		117.5	431	5,949	0.024	24	533
30		113	345	4,402	0.018	18	427
29		110.5	86	1,052	0.004	4	107
28		109.5	94	1,124	0.005	5	116
27		107	302	3,453	0.014	14	373
26		103.5	238	2,548	0.010	10	294
25		101	285	2,903	0.012	12	352
24		99.25	232	2,283	0.009	9	287
23		96.75	377	3,530	0.014	14	467
22		92.5	550	4,707	0.019	19	681
21		87.5	564	4,315	0.018	18	698
20		82.5	577	3,928	0.016	16	714
19		77.5	591	3,548	0.015	14	731
18		72.5	604	3,176	0.013	13	748
17		67.5	618	2,814	0.012	11	764
16		62.5	659	2,575	0.011	10	816
15		57.5	738	2,441	0.010	10	914
14		54.625	112	334	0.001	1	139
13		53.75	216	625	0.003	3	268
12		51.625	991	2,641	0.011	11	1,227
11		49.25	461	1,119	0.005	5	571
10		46.75	766	1,674	0.007	7	948
9		42.5	1,106	1,998	0.008	8	1,369
8		37.5	1,119	1,574	0.006	6	1,386
7		32.5	1,133	1,197	0.005	5	1,402
6		27.5	1,146	867	0.004	4	1,419
5		22.5	1,160	587	0.002	2	1,436
4		17.5	1,173	359	0.002	1	1,453
3		12.5	1,187	185	0.001	1	1,469
2		7.5	1,200	68	0.000	0	1,486
1		2.5	1,214	8	0.000	0	1,503
Raycap DC9-48-60-24-8C-EV		139	32	618	0.002	3	40
Ericsson RRUS 8843 B2, B66A		135	216	3,937	0.016	16	267

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)
Ericsson RRUS 4415 B30	135	138	2,515	0.010	10	171
Ericsson RRUS 4449 B5, B12	135	213	3,882	0.016	16	264
Ericsson RRUS 4478 B14	135	178	3,248	0.013	13	221
Ericsson RRUS E2 B29	135	180	3,280	0.014	13	223
CCI HPA65R-BU8A	135	162	2,952	0.012	12	201
Generic Round Sector Frame	135	2,100	38,272	0.158	155	2,599
Generic Round Sector Frame	110	2,100	25,410	0.105	103	2,599
CCI DMP65R-BU8D	135	287	5,232	0.022	21	355
CCI TPA65R-BU8D	135	248	4,511	0.019	18	306
Samsung B2/B66A RRH-BR049	111	253	3,120	0.013	13	313
Commscope CBC78T-DS-43-2X	110	62	751	0.003	3	77
Kaelus KA-6030	110	70	852	0.004	3	87
Samsung B5/B13 RRH-BR04C	110	211	2,552	0.010	10	261
Raycap RC3DC-3315-PF-48	110	32	387	0.002	2	40
Raycap RC3DC-3315-PF-48	110	32	387	0.002	2	40
Commscope JAHH-65B-R3B	110	364	4,400	0.018	18	450
Antel LPA-80063/6CF	110	162	1,960	0.008	8	201
Samsung MT6407-77A	109	245	2,908	0.012	12	303
Ericsson Radio 4449 B71 B85A	100	225	2,250	0.009	9	278
Ericsson 4460 BAND 2/25	100	327	3,270	0.014	13	405
Ericsson Air6449 B41	100	312	3,120	0.013	13	386
RFS APXVAARR24_43-U-NA20	100	384	3,837	0.016	16	475
Perfect Vision PV-LPPGS-12M-HR25-AP4 Triangular Platform w/ HandrailsRails	100	2,500	25,000	0.103	102	3,094
Totals:		32,884	242,980	1.000	987	40,703

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)
36	137	283	5,305	0.022	22	244
35	132.5	431	7,565	0.031	31	372
34	127.5	431	7,005	0.029	28	372
33	124.5	86	1,336	0.006	5	74
32	122	345	5,131	0.021	21	297
31	117.5	431	5,949	0.024	24	372
30	113	345	4,402	0.018	18	297
29	110.5	86	1,052	0.004	4	74
28	109.5	94	1,124	0.005	5	81
27	107	302	3,453	0.014	14	260
26	103.5	238	2,548	0.010	10	205
25	101	285	2,903	0.012	12	245
24	99.25	232	2,283	0.009	9	200
23	96.75	377	3,530	0.014	14	325
22	92.5	550	4,707	0.019	19	474
21	87.5	564	4,315	0.018	18	486
20	82.5	577	3,928	0.016	16	498
19	77.5	591	3,548	0.015	14	509
18	72.5	604	3,176	0.013	13	521
17	67.5	618	2,814	0.012	11	533
16	62.5	659	2,575	0.011	10	568
15	57.5	738	2,441	0.010	10	637
14	54.625	112	334	0.001	1	96
13	53.75	216	625	0.003	3	187
12	51.625	991	2,641	0.011	11	855
11	49.25	461	1,119	0.005	5	398
10	46.75	766	1,674	0.007	7	661
9	42.5	1,106	1,998	0.008	8	954
8	37.5	1,119	1,574	0.006	6	965
7	32.5	1,133	1,197	0.005	5	977
6	27.5	1,146	867	0.004	4	989

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)
5	22.5	1,160	587	0.002	2	1,000
4	17.5	1,173	359	0.002	1	1,012
3	12.5	1,187	185	0.001	1	1,023
2	7.5	1,200	68	0.000	0	1,035
1	2.5	1,214	8	0.000	0	1,047
Raycap DC9-48-60-24-8C-EV	139	32	618	0.002	3	28
Ericsson RRUS 8843 B2, B66A	135	216	3,937	0.016	16	186
Ericsson RRUS 4415 B30	135	138	2,515	0.010	10	119
Ericsson RRUS 4449 B5, B12	135	213	3,882	0.016	16	184
Ericsson RRUS 4478 B14	135	178	3,248	0.013	13	154
Ericsson RRUS E2 B29	135	180	3,280	0.014	13	155
CCI HPA65R-BU8A	135	162	2,952	0.012	12	140
Generic Round Sector Frame	135	2,100	38,272	0.158	155	1,811
Generic Round Sector Frame	110	2,100	25,410	0.105	103	1,811
CCI DMP65R-BU8D	135	287	5,232	0.022	21	248
CCI TPA65R-BU8D	135	248	4,511	0.019	18	213
Samsung B2/B66A RRH-BR049	111	253	3,120	0.013	13	218
Commscope CBC78T-DS-43-2X	110	62	751	0.003	3	54
Kaelus KA-6030	110	70	852	0.004	3	61
Samsung B5/B13 RRH-BR04C	110	211	2,552	0.010	10	182
Raycap RC3DC-3315-PF-48	110	32	387	0.002	2	28
Raycap RC3DC-3315-PF-48	110	32	387	0.002	2	28
Commscope JAHH-65B-R3B	110	364	4,400	0.018	18	314
Antel LPA-80063/6CF	110	162	1,960	0.008	8	140
Samsung MT6407-77A	109	245	2,908	0.012	12	211
Ericsson Radio 4449 B71 B85A	100	225	2,250	0.009	9	194
Ericsson 4460 BAND 2/25	100	327	3,270	0.014	13	282
Ericsson Air6449 B41	100	312	3,120	0.013	13	269
RFS APXVAARR24_43-U-NA20	100	384	3,837	0.016	16	331
Perfect Vision PV-LPPGS-12M-HR25-AP4 Triangular Platform w/ HandrailsRails	100	2,500	25,000	0.103	102	2,156
Totals:		32,884	242,980	1.000	987	28,354

1.2D + 1.0Ev + 1.0Eh

Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-39.20	-0.99	0.00	-115.09	0.00	115.09	2,068.11	594.20	2,290	1,819.33	0.00	0.00	0.05
5.00	-37.71	-1.00	0.00	-110.15	0.00	110.15	2,044.32	580.27	2,184	1,756.02	0.01	-0.01	0.05
10.00	-36.24	-1.00	0.00	-105.16	0.00	105.16	2,019.36	566.35	2,080	1,692.70	0.02	-0.02	0.05
15.00	-34.79	-1.01	0.00	-100.15	0.00	100.15	1,993.20	552.42	1,979	1,629.44	0.06	-0.03	0.04
20.00	-33.36	-1.01	0.00	-95.11	0.00	95.11	1,965.87	538.50	1,881	1,566.33	0.10	-0.05	0.04
25.00	-31.94	-1.01	0.00	-90.05	0.00	90.05	1,937.35	524.57	1,785	1,503.43	0.15	-0.06	0.04
30.00	-30.53	-1.01	0.00	-84.98	0.00	84.98	1,907.64	510.65	1,691	1,440.82	0.22	-0.07	0.04
35.00	-29.15	-1.01	0.00	-79.92	0.00	79.92	1,876.75	496.72	1,600	1,378.57	0.30	-0.08	0.04
40.00	-27.78	-1.01	0.00	-74.86	0.00	74.86	1,844.67	482.79	1,512	1,316.76	0.40	-0.10	0.04
45.00	-26.83	-1.00	0.00	-69.83	0.00	69.83	1,811.41	468.87	1,426	1,255.46	0.50	-0.11	0.04
48.50	-26.26	-1.00	0.00	-66.31	0.00	66.31	1,787.43	459.12	1,367	1,212.88	0.58	-0.12	0.03
50.00	-25.03	-0.99	0.00	-64.81	0.00	64.81	1,776.97	454.94	1,342	1,194.73	0.62	-0.12	0.03
53.25	-24.76	-0.99	0.00	-61.60	0.00	61.60	1,771.70	452.85	1,330	1,185.68	0.70	-0.13	0.03
54.25	-24.63	-0.99	0.00	-60.61	0.00	60.61	1,764.63	450.07	1,314	1,173.63	0.73	-0.13	0.03
54.25	-24.63	-0.99	0.00	-60.61	0.00	60.61	1,764.63	450.07	1,314	1,173.63	0.73	-0.13	0.07
55.00	-23.71	-0.98	0.00	-59.87	0.00	59.87	1,759.30	447.98	1,302	1,164.62	0.75	-0.13	0.07
60.00	-22.90	-0.98	0.00	-54.96	0.00	54.96	1,723.08	434.06	1,222	1,104.91	0.90	-0.16	0.06
65.00	-22.13	-0.97	0.00	-50.07	0.00	50.07	1,685.67	420.13	1,145	1,045.97	1.08	-0.18	0.06
70.00	-21.38	-0.97	0.00	-45.19	0.00	45.19	1,647.08	406.20	1,070	987.87	1.28	-0.21	0.06
75.00	-20.65	-0.96	0.00	-40.35	0.00	40.35	1,607.30	392.28	998	930.68	1.51	-0.23	0.06
80.00	-19.94	-0.95	0.00	-35.55	0.00	35.55	1,566.34	378.35	929	874.48	1.76	-0.25	0.05
85.00	-19.24	-0.94	0.00	-30.80	0.00	30.80	1,524.19	364.43	861	819.35	2.04	-0.28	0.05
90.00	-18.56	-0.92	0.00	-26.12	0.00	26.12	1,480.86	350.50	797	765.35	2.34	-0.30	0.05

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
95.00	-18.09	-0.91	0.00	-21.52	0.00	21.52	1,424.84	336.58	735	706.85	2.67	-0.32	0.04
98.50	-17.80	-0.90	0.00	-18.33	0.00	18.33	1,383.58	326.83	693	666.30	2.91	-0.33	0.04
100.00	-12.81	-0.71	0.00	-16.98	0.00	16.98	1,365.89	322.65	675	649.29	3.02	-0.34	0.04
102.00	-12.52	-0.70	0.00	-15.56	0.00	15.56	964.52	242.38	508	460.47	3.16	-0.35	0.05
105.00	-12.15	-0.69	0.00	-13.46	0.00	13.46	947.62	236.11	482	440.61	3.38	-0.36	0.04
109.00	-11.73	-0.67	0.00	-10.71	0.00	10.71	924.42	227.76	449	414.49	3.69	-0.37	0.04
109.00	-11.73	-0.67	0.00	-10.71	0.00	10.71	654.06	196.22	304	305.83	3.69	-0.37	0.05
110.00	-7.87	-0.49	0.00	-10.04	0.00	10.04	654.06	196.22	304	305.83	3.77	-0.38	0.05
111.00	-7.13	-0.46	0.00	-9.55	0.00	9.55	654.06	196.22	304	305.83	3.85	-0.38	0.04
115.00	-6.59	-0.43	0.00	-7.73	0.00	7.73	654.06	196.22	304	305.83	4.17	-0.39	0.04
120.00	-6.17	-0.41	0.00	-5.57	0.00	5.57	654.06	196.22	304	305.83	4.59	-0.41	0.03
124.00	-6.06	-0.40	0.00	-3.94	0.00	3.94	654.06	196.22	304	305.83	4.94	-0.41	0.02
124.00	-6.06	-0.40	0.00	-3.94	0.00	3.94	654.06	196.22	304	305.83	4.94	-0.41	0.02
125.00	-5.53	-0.37	0.00	-3.54	0.00	3.54	654.06	196.22	304	305.83	5.02	-0.41	0.02
130.00	-4.99	-0.34	0.00	-1.69	0.00	1.69	654.06	196.22	304	305.83	5.46	-0.42	0.01
135.00	-0.04	0.00	0.00	-0.01	0.00	0.01	654.06	196.22	304	305.83	5.90	-0.42	0.00
139.00	0.00	0.00	0.00	0.00	0.00	0.00	654.06	196.22	304	305.83	6.25	-0.42	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	-27.31	-0.99	0.00	-112.68	0.00	112.68	2,068.11	594.20	2,290	1,819.33	0.00	0.00	0.04
5.00	-26.27	-0.99	0.00	-107.74	0.00	107.74	2,044.32	580.27	2,184	1,756.02	0.01	-0.01	0.04
10.00	-25.25	-1.00	0.00	-102.77	0.00	102.77	2,019.36	566.35	2,080	1,692.70	0.02	-0.02	0.04
15.00	-24.24	-1.00	0.00	-97.78	0.00	97.78	1,993.20	552.42	1,979	1,629.44	0.05	-0.03	0.04
20.00	-23.24	-1.00	0.00	-92.78	0.00	92.78	1,965.87	538.50	1,881	1,566.33	0.10	-0.05	0.04
25.00	-22.25	-1.00	0.00	-87.78	0.00	87.78	1,937.35	524.57	1,785	1,503.43	0.15	-0.06	0.04
30.00	-21.27	-1.00	0.00	-82.77	0.00	82.77	1,907.64	510.65	1,691	1,440.82	0.22	-0.07	0.04
35.00	-20.30	-1.00	0.00	-77.76	0.00	77.76	1,876.75	496.72	1,600	1,378.57	0.30	-0.08	0.04
40.00	-19.35	-0.99	0.00	-72.78	0.00	72.78	1,844.67	482.79	1,512	1,316.76	0.39	-0.09	0.03
45.00	-18.69	-0.99	0.00	-67.82	0.00	67.82	1,811.41	468.87	1,426	1,255.46	0.49	-0.10	0.03
48.50	-18.29	-0.98	0.00	-64.37	0.00	64.37	1,787.43	459.12	1,367	1,212.88	0.57	-0.11	0.03
50.00	-17.44	-0.97	0.00	-62.90	0.00	62.90	1,776.97	454.94	1,342	1,194.73	0.61	-0.12	0.03
53.25	-17.25	-0.97	0.00	-59.73	0.00	59.73	1,771.70	452.85	1,330	1,185.68	0.69	-0.12	0.03
54.25	-17.15	-0.97	0.00	-58.76	0.00	58.76	1,764.63	450.07	1,314	1,173.63	0.71	-0.13	0.03
54.25	-17.15	-0.97	0.00	-58.76	0.00	58.76	1,764.63	450.07	1,314	1,173.63	0.71	-0.13	0.06
55.00	-16.52	-0.96	0.00	-58.04	0.00	58.04	1,759.30	447.98	1,302	1,164.62	0.73	-0.13	0.06
60.00	-15.95	-0.96	0.00	-53.22	0.00	53.22	1,723.08	434.06	1,222	1,104.91	0.88	-0.15	0.06
65.00	-15.42	-0.95	0.00	-48.44	0.00	48.44	1,685.67	420.13	1,145	1,045.97	1.05	-0.18	0.06
70.00	-14.89	-0.94	0.00	-43.68	0.00	43.68	1,647.08	406.20	1,070	987.87	1.25	-0.20	0.05
75.00	-14.38	-0.93	0.00	-38.97	0.00	38.97	1,607.30	392.28	998	930.68	1.47	-0.22	0.05
80.00	-13.89	-0.92	0.00	-34.31	0.00	34.31	1,566.34	378.35	929	874.48	1.72	-0.25	0.05
85.00	-13.40	-0.91	0.00	-29.71	0.00	29.71	1,524.19	364.43	861	819.35	1.99	-0.27	0.05
90.00	-12.93	-0.89	0.00	-25.19	0.00	25.19	1,480.86	350.50	797	765.35	2.28	-0.29	0.04
95.00	-12.60	-0.88	0.00	-20.75	0.00	20.75	1,424.84	336.58	735	706.85	2.60	-0.31	0.04
98.50	-12.40	-0.87	0.00	-17.68	0.00	17.68	1,383.58	326.83	693	666.30	2.83	-0.32	0.04
100.00	-8.92	-0.69	0.00	-16.38	0.00	16.38	1,365.89	322.65	675	649.29	2.93	-0.33	0.03
102.00	-8.72	-0.67	0.00	-15.01	0.00	15.01	964.52	242.38	508	460.47	3.07	-0.34	0.04
105.00	-8.46	-0.66	0.00	-12.98	0.00	12.98	947.62	236.11	482	440.61	3.29	-0.35	0.04
109.00	-8.17	-0.64	0.00	-10.34	0.00	10.34	924.42	227.76	449	414.49	3.59	-0.36	0.03
109.00	-8.17	-0.64	0.00	-10.34	0.00	10.34	654.06	196.22	304	305.83	3.59	-0.36	0.05
110.00	-5.48	-0.47	0.00	-9.69	0.00	9.69	654.06	196.22	304	305.83	3.66	-0.37	0.04
111.00	-4.96	-0.44	0.00	-9.22	0.00	9.22	654.06	196.22	304	305.83	3.74	-0.37	0.04
115.00	-4.59	-0.42	0.00	-7.46	0.00	7.46	654.06	196.22	304	305.83	4.05	-0.38	0.03
120.00	-4.30	-0.39	0.00	-5.38	0.00	5.38	654.06	196.22	304	305.83	4.46	-0.39	0.02
124.00	-4.22	-0.39	0.00	-3.80	0.00	3.80	654.06	196.22	304	305.83	4.79	-0.40	0.02
124.00	-4.22	-0.39	0.00	-3.80	0.00	3.80	654.06	196.22	304	305.83	4.79	-0.40	0.02
125.00	-3.85	-0.36	0.00	-3.42	0.00	3.42	654.06	196.22	304	305.83	4.87	-0.40	0.02

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	-3.48	-0.32	0.00	-1.63	0.00	1.63	654.06	196.22	304	305.83	5.30	-0.40	0.01
135.00	-0.03	0.00	0.00	-0.01	0.00	0.01	654.06	196.22	304	305.83	5.72	-0.41	0.00
139.00	0.00	0.00	0.00	0.00	0.00	0.00	654.06	196.22	304	305.83	6.06	-0.41	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	25.99	0.00	39.41	0.00	0.00	2380.49	54.25	0.97
0.9D + 1.0W	25.97	0.00	29.54	0.00	0.00	2342.11	54.25	0.94
1.2D + 1.0Di + 1.0Wi	6.35	0.00	59.46	0.00	0.00	661.29	54.25	0.31
1.2D + 1.0Ev + 1.0Eh	1.01	0.00	39.20	0.00	0.00	115.09	54.25	0.07
0.9D - 1.0Ev + 1.0Eh	1.00	0.00	27.31	0.00	0.00	112.68	54.25	0.06
1.0D + 1.0W	6.55	0.00	32.88	0.00	0.00	594.71	54.25	0.25

ADDITIONAL STEEL SUMMARY

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors				Max Member		
			VQ/I (k/in)	Shear Applied (kips)	phiVn (kips)	Ratio	Pu (kip)	phiPn (kip)	Ratio
0.00	54.25	SOL #20 All Thread Bar	268.0	8.0	16.8	0.4783	255.3	256.1	

Elev From (ft)	Elev To (ft)	Member	Upper Termination Connectors				Lower Termination Connectors					
			MQ/I (kips)	phiVn (kips)	Number Required	Number Actual	Ratio	MQ/I (kips)	phiVn (kip)	Number Required	Number Actual	Ratio
0.00	54.25	SOL #20 All Thread Bar	179.7701	12	15	16	0.9363	0	12	0	0	0.0000

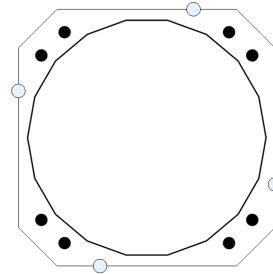
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
2380.49	39.41	25.99

PLATE PARAMETERS (ID# 26809)

Width:	46.75	in
Shape:	Square	
Thickness:	2	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Clip Length:	7	in
Rod Detail Type:	d	
Clear Distance:	3	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Elastic	
Neutral Axis:	48	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#27510]	Cluster	8	2.25	48.75	A615-75	75	100	6	-

DYWIDAG BAR PARAMETERS

Quantity	Bar Size	Bar Diameter (in)	F _y (ksi)	F _u (ksi)	Bracket Type	Bracket Offset (in)	Circle (in)	Offset (°)
4 [ID# 2384]	#20	2.5	80	100	Angle	2.19	49.80	70

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	42.92"ø x 0.25" (18 Sides)	33.3431	-	-	7589.28	-
Bolt Group	Original (8) 2.25"ø	3.9761	3.2477	0.8393	6916.22	4.5
Dywidag Group	(4) #20	4.9087	4.9087	1.9175	6094.60	-

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	42.92"ø x 0.25" (18 Sides)	1320.2	39.41	25.99	0.555
Bolt Group	Original (8) 2.25"ø	1320.2	-	25.99	0.555
Dywidag Group	(4) #20	1060.2	-	-	0.445

BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	43.04	in	Flat Width:	7.590	in
Point-to-Point Diameter:	43.71	in	Flat Radians:	0.349	rad
Orientation Offset:	-	°			

PLATE PROPERTIES


Neutral Axis:	48	°
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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	23.069	0.00	23.069	461.4	1038.1	44.4%
Corners	22.405	0.00	22.405	346.6	1008.2	34.4%


ASSET: 283562, NORTH BLOOMFIELD CT
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14519454

ELASTIC 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)	Compressive Result	Interaction Result
Original	8	2.25	173.9	0.4	243.6	0.714	71.7% 

DYWIDAG BAR ANALYSIS

Group Quantity	Bar Size	Bar Circle (in)	Applied Axial Load P_u (k)	Compressive Capacity ΦP_n (k)	Compressive Result $P_u / \Phi P_n$
4	#20	49.80	241.0	368.2	65.5% 

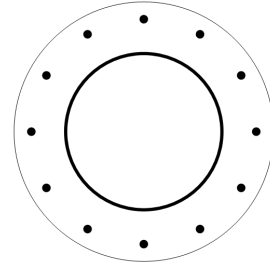
UPPER FLANGE PLATE ANALYSIS @ 109 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
189.95	10.1	11.98

PLATE PARAMETERS (ID# 26811)

Width:	30	in
Shape:	Round	
Thickness:	1.5	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Base Weld Size:	0.438	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	30	°



FLANGE BOLT PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#27512]	Radial	12	1	26	A325	92	120	-	-

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	18"Ø x 0.375" (Round)	20.7637	-	-	807.24	-
Bolt Group	Original (12) 1"Ø	0.7854	0.6057	0.0292	556.94	8.0

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	18"Ø x 0.375" (Round)	190.0	10.10	11.98	1.000
Bolt Group	Original (12) 1"Ø	190.0	-	11.98	1.000

UPPER FLANGE PLATE BEND LINE ANALYSIS @ 109 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	18.44	in
Point-to-Point Diameter:	18.44	in
Orientation Offset:	-	°

Flat Width:	0.161	in
Flat Radians:	0.017	rad

PLATE PROPERTIES

Neutral Axis:	30	°
Bend Line Limits:	1.523 to 2.665	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	20.504	0.00	11.534	181.6	519.0	35.0%
Corners	20.504	0.00	11.534	181.6	519.0	35.0%
Circumferential	24.069	0.00	13.539	272.5	609.2	44.7%

PLASTIC FLANGE BOLT ANALYSIS

Class	Group Quantity	Bolt Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	12	1	26.4	1.6	54.5	52.6%

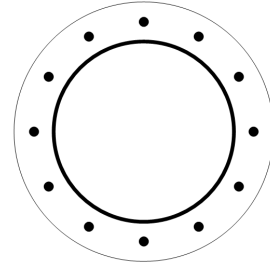
UPPER FLANGE PLATE ANALYSIS @ 124 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
75.06	5.16	6.51

PLATE PARAMETERS (ID# 26813)

Width:	26	in
Shape:	Round	
Thickness:	1.5	in
Grade:	A572-50	
Yield Strength:	50	ksi
Tensile Strength:	65	ksi
Base Weld Size:	0.438	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	15	°



FLANGE BOLT PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#27514]	Radial	12	1	22	A325	92	120	-	-

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	18"Ø x 0.375" (Round)	20.7637	-	-	807.24	-
Bolt Group	Original (12) 1"Ø	0.7854	0.6057	0.0292	391.57	8.0

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	18"Ø x 0.375" (Round)	75.1	5.16	6.51	1.000
Bolt Group	Original (12) 1"Ø	75.1	-	6.51	1.000

UPPER FLANGE PLATE BEND LINE ANALYSIS @ 124 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	18.44	in
Point-to-Point Diameter:	18.44	in
Orientation Offset:	-	°

Flat Width:	0.161	in
Flat Radians:	0.017	rad

PLATE PROPERTIES

Neutral Axis:	15	°
Bend Line Limits:	1.273 to 2.392	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	14.691	0.00	8.264	23.1	371.9	6.2%
Corners	14.691	0.00	8.264	23.1	371.9	6.2%
Circumferential	18.199	0.00	10.237	33.3	460.7	7.2%

PLASTIC FLANGE BOLT ANALYSIS

Class	Group Quantity	Bolt Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	12	1	12.1	0.8	54.5	24.3%

Site Name: North Bloomfield CT, CT
Site Number: 283562
Tower Type: MP
Design Loads (Factored) - Analysis per TIA-222-H Standards

Mat & Pier Foundation Analysis

Foundation Analysis Parameters		
Design / Analysis / Mapping:	Mapping	-
Compression/Leg:	39.4	k
Uplift/Leg:	0.0	k
Global Shear:	26.0	k
Global Moment:	2,380.5	k-ft
Global Axial:	39.4	k
Depth to Base of Foundation (l + t - h):	6	ft
Diameter of Pier (d):	6	ft
Length of Pier (l):	5	ft
Height of Pier above Ground (h):	0.5	ft
Pier Shape:	Round	
If Square: Pier Taper:	Prismatic	
Pier Width at Base:	6	ft
Width of Pad (W):	20	ft
Length of Pad (L):	23	ft
Thickness of Pad (t):	1.5	ft
Tower Diameter:	3.576667	ft
Number of Connection to Tower:	1	-
Tower Center from Mat Center:	3.35	ft
Depth Below Ground Surface to Water Table:	9	ft
Unit Weight of Soil Above Water Table:	125	pcf
Angle of Uplift:	15	°
Coefficient of Shear Friction:	0.35	-
Ultimate Compressive Bearing Pressure:	6,000	psf
Bearing Pressure Type:	Net	-
Ultimate Passive Pressure on Pad Face:	656	psf
Ultimate Skin Friction:	300	psf
Soil Type:	Other	-
Φ_{Soil} and Concrete Weight:	1.2	-
Φ_{Soil} :	0.75	-

Overturning Moment Usage		
Design OTM:	2549.5	k-ft
OTM Resistance:	3293.7	k-ft
$M_u / \Phi_s M_n$:	77.4%	Pass

Soil Bearing Pressure Usage		
Applied Bearing Pressure:	2411.2	psf
Factored Nominal Bearing Pressure:	4500.0	psf
$P_u / \Phi_s P_n$:	53.6%	Pass
Load Direction Controlling Design Bearing Pressure:	<i>Diagonal to Pad Edge</i>	

Sliding Factor of Safety		
Ultimate Friction Resistance:	123.1	k
Ultimate Passive Pressure Resistance:	22.6	k
Total Factored Sliding Resistance:	109.3	k
$V_u / \Phi_s V_n$:	23.8%	Pass

Uplift and Pullout Usage		
Applied Uplift Force:	0.0	k
Ultimate Skin Friction Resistance:	38.7	k
Factored Uplift Capacity per Leg ($\Phi_s T_n$):	280.1	k
$T_u / \Phi_s T_n$:	0%	Pass

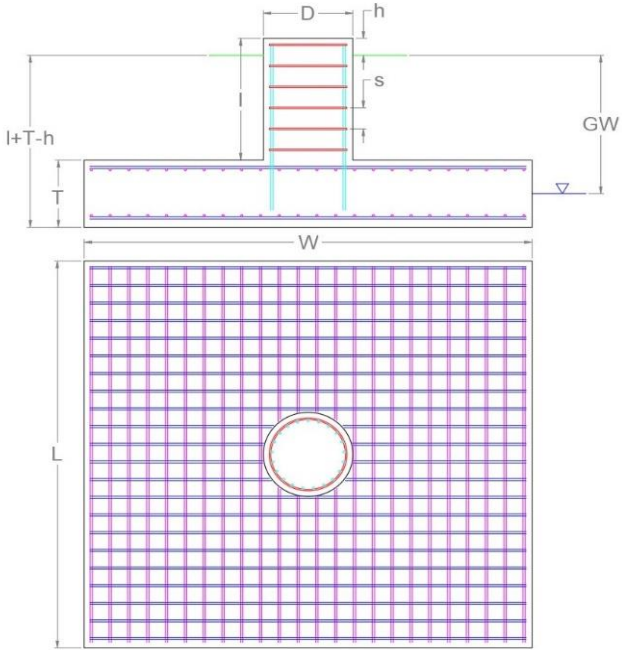


EXHIBIT 4



Colliers Engineering & Design CT. P.C.
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10207610
Colliers Engineering & Design CT. P.C. Project #: 23777184

July 24, 2023

Site Information

Site ID: 5000103134-VZW / NORTH BLOOMFIELD CT
Site Name: NORTH BLOOMFIELD CT
Carrier Name: Verizon Wireless
Address: Day Hill Rd
Bloomfield, Connecticut 06002
Hartford County
Latitude: 41.876508°
Longitude: -72.741840°

Structure Information

Tower Type: 110-Ft Monopole
Mount Type: 13.46-Ft T-Arm

FUZE ID # 17123869

Analysis Results

T-Arm: 81.7% Pass*

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

***Contractor PMI Requirements:

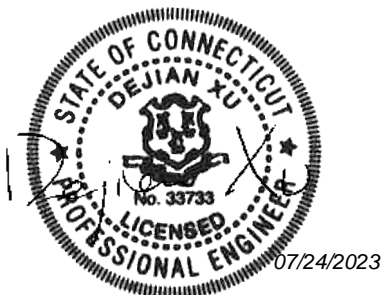
Included at the end of this MA report

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

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Selene Chen



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 1507042, dated March 17, 2021
Desktop Mount Mapping Form	Colliers Engineering & Design CT. P.C., Project #: 21777461, dated April 9, 2021
Previous Mount Analysis Report	Maser Consulting Connecticut, Project #: 21777461, dated June 29, 2021
Post-Modification Inspection Report	Colliers Engineering & Design CT. P.C., Project #: 21777461, dated March 3, 2023
Filter Add Scope	Provided by Verizon Wireless

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.994
Seismic Parameters:	S_s : 0.182 g S_1 : 0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
107.00	108.00	3	Samsung	MT6407-77A	Retained
		3	Commscope	CBC78T-DS-43-2X	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		6	Commscope	JAHH-65B-R3B	
		2	Antel	LPA-80063/6CF	
		4	Antel	LPA-80063/6CF_5	
		2	Raycap	RC3DC-3315-PF-48	
		4	KAelus	KA-6030	Added

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Colliers Engineering & Design CT. P.C. 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 CT. P.C. 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 CT. P.C. 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 CT. P.C..

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Standoff Arm</i>	52.1 %	Pass
<i>Horizontal</i>	50.3 %	Pass
<i>Antenna Pipe</i>	57.0 %	Pass
<i>Mod Face</i>	75.3 %	Pass
<i>Mod Standoff</i>	34.7 %	Pass
<i>Kicker</i>	11.6 %	Pass
<i>Connection Check</i>	81.7 %	Pass

Structure Rating – (Controlling Utilization of all Components)	81.7%
---	--------------

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	14.6	8.0	24.6	18.0
0.5	19.3	10.8	33.4	25.0
1	23.6	13.4	42.0	31.8

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 1 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

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

Contractor shall record all dimensions and member sizes requested in the Mount Geometry Verification Requirements section of the Mount Analysis report. Contractor shall provide the requested information to Colliers Engineering & Design CT. P.C. for structural verification while on site. Contact EOR if these documents are not available to the general contractor.

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. Desktop Mount Mapping Form (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 #: 5000103134

SMART Project #: 10207610

Fuze Project ID: 17123869

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 record all dimensions and member sizes requested in the Mount Geometry Verification Requirements section of the Mount Analysis report. Contractor shall provide the requested information to Colliers Engineering & Design CT. P.C. for structural verification while on site. Contact EOR if these documents are not available to the general contractor.

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

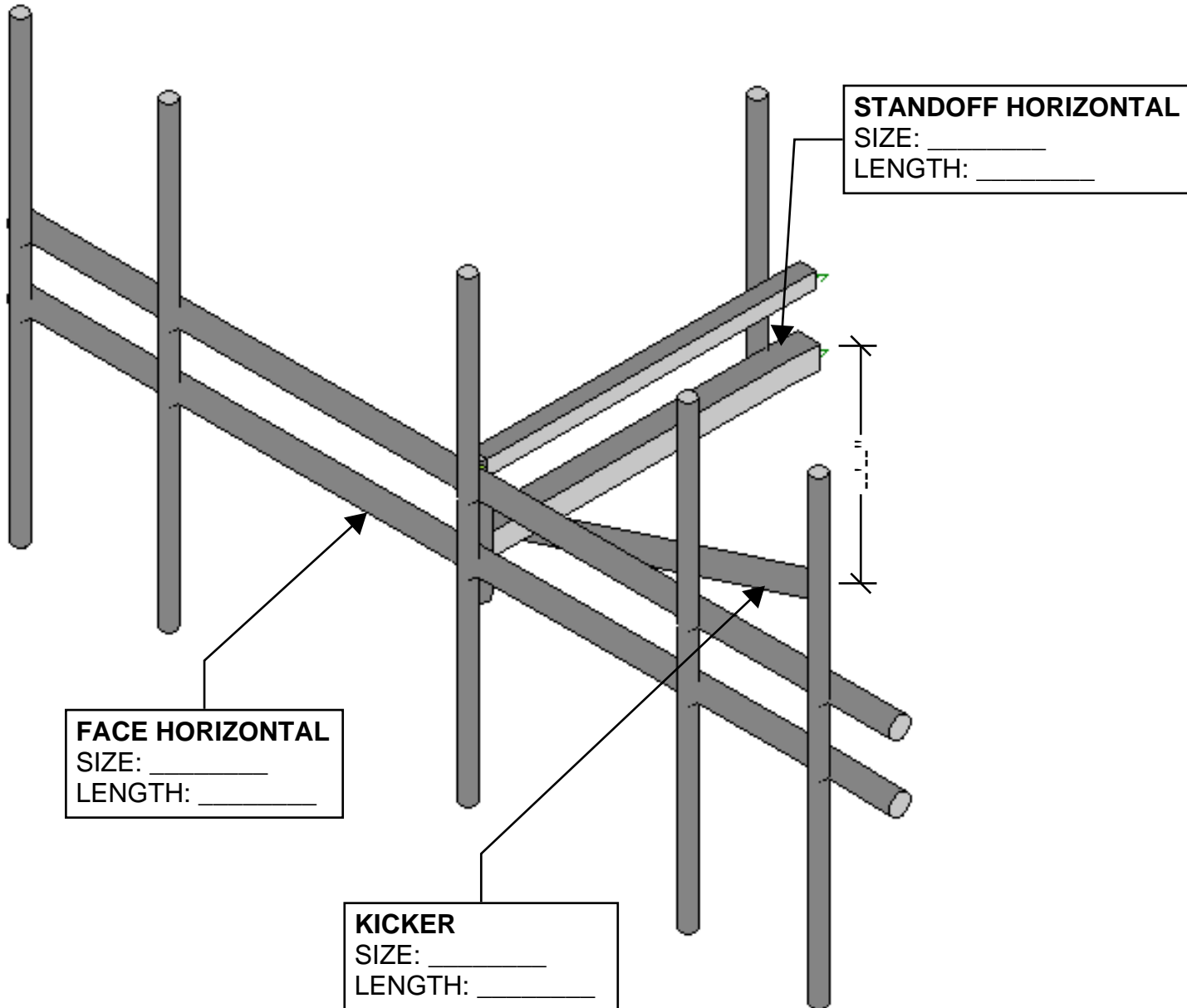
Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

Safety Climb in Good Condition Safety Climb Damaged

Certifying Individual:

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

MOUNT GEOMETRY VERIFICATION

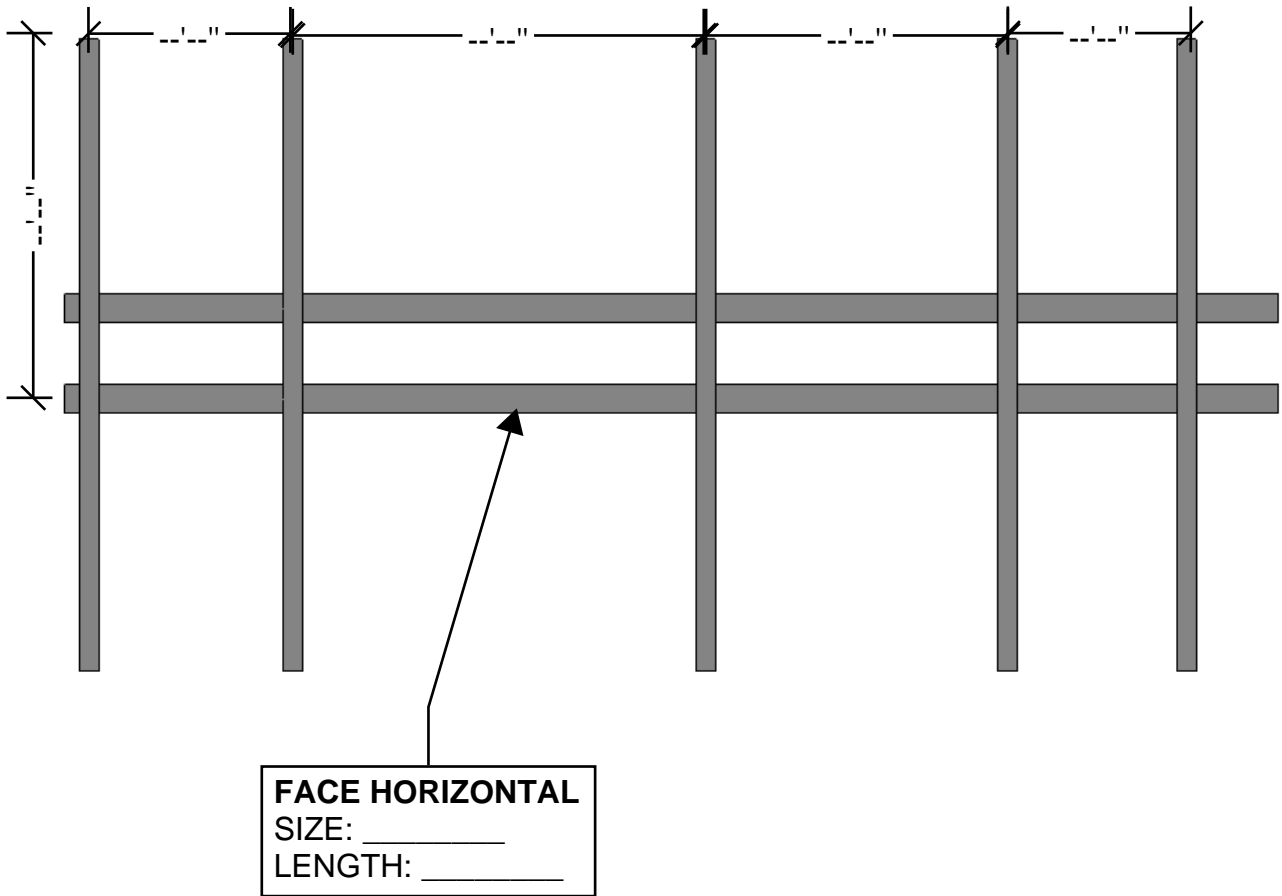


MOUNT ISOMETRIC VIEW

N.T.S

CONTRACTOR SHALL MEASURE ALL DIMENSIONS AND MEMBER SIZES REQUESTED ON THIS SKETCH. RECORD VIA PHOTOS AND MARKUPS ON THIS PAGE. PROVIDE PHOTOS AND MARKED-UP SKETCH TO THE EOR FOR EVALUATION.

MOUNT GEOMETRY VERIFICATION

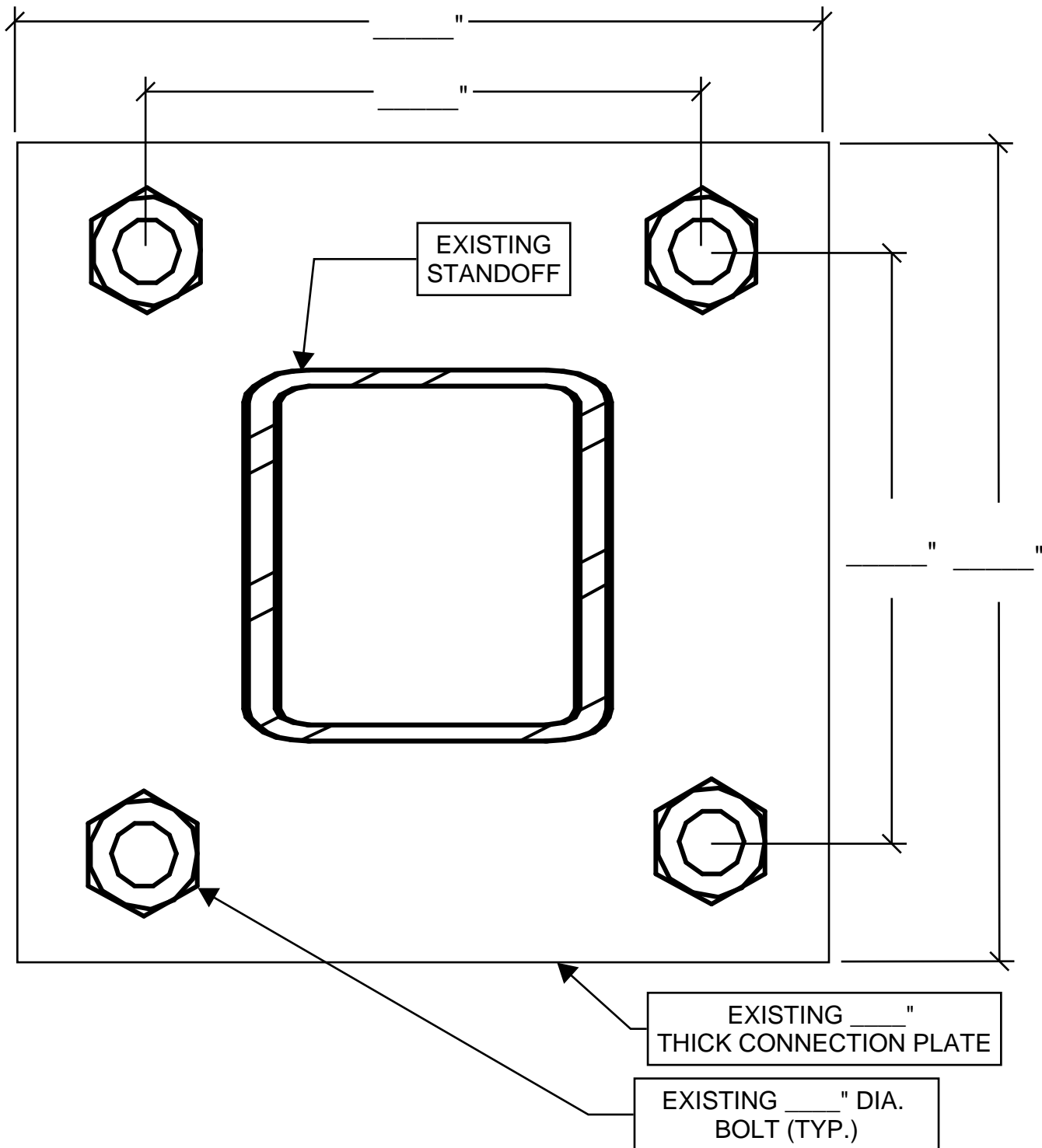


MOUNT FRONT VIEW

N.T.S

CONTRACTOR SHALL MEASURE ALL DIMENSIONS AND MEMBER SIZES REQUESTED ON THIS SKETCH. RECORD VIA PHOTOS AND MARKUPS ON THIS PAGE. PROVIDE PHOTOS AND MARKED-UP SKETCH TO THE EOR FOR EVALUATION.

MOUNT GEOMETRY VERIFICATION



CONNECTION GEOMETRY (TYP. ALL SECTORS)

N.T.S.

CONTRACTOR SHALL MEASURE ALL DIMENSIONS AND MEMBER SIZES REQUESTED ON THIS SKETCH. RECORD VIA PHOTOS AND MARKUPS ON THIS PAGE. PROVIDE PHOTOS AND MARKED-UP SKETCH TO THE EOR FOR EVALUATION.

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7/21/2023

Str t re Type: Mo opole

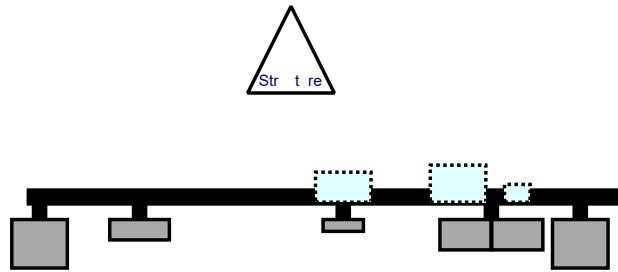
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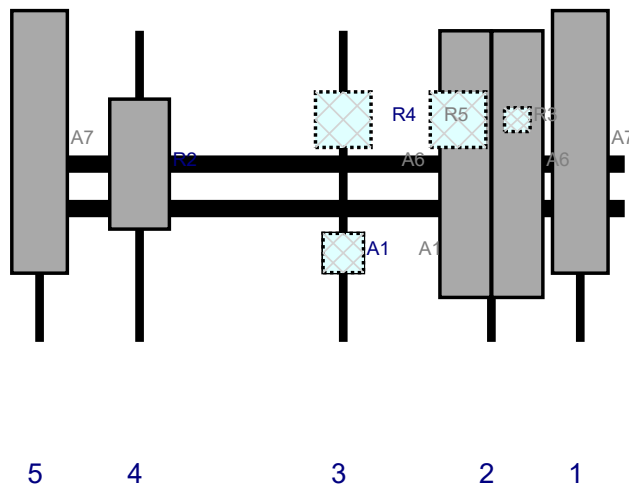
Mo t Elev: 107.00

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Plan View



Front View - Looking at Structure



Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A7	LPA-80063/6CF	70.9	15	149.5	1		Fro t	30	0	Ret i ed	02/05/2023
A6	JAHH-65B-R3B	72	13.8	125.5	2		Fro t	36	-7	Ret i ed	02/05/2023
A6	JAHH-65B-R3B	72	13.8	125.5	2		Fro t	36	7	Ret i ed	02/05/2023
R3	CBC78T-DS-43-2	6.4	6.9	125.5	2		Behi d	24	7	Ret i ed	02/05/2023
R4	B2/B66A RRRH-BR049 (RFV01U-D1A)	15	15	125.5	2		Behi d	24	-9	Ret i ed	02/05/2023
A1	A-6030	10.6	10.9	85.5	3		Fro t	60	0	Added	
A1	A-6030	10.6	10.9	85.5	3		Behi d	60	0	Added	
R5	B5/B13 RRRH-BR04C (RFV01U-D2A)	15	15	85.5	3		Behi d	24	0	Ret i ed	02/05/2023
R2	MT6407-77A	35.1	16.1	30.5	4		Fro t	36	0	Ret i ed	02/05/2023
A7	LPA-80063/6CF	70.9	15	3.5	5		Fro t	30	0	Ret i ed	02/05/2023
OVP	RC3DC-3315-PF-48	23	15.7			Me er				Ret i ed	02/05/2023

Se tor: **B**

7/21/2023

Str t re Type: Mo opole

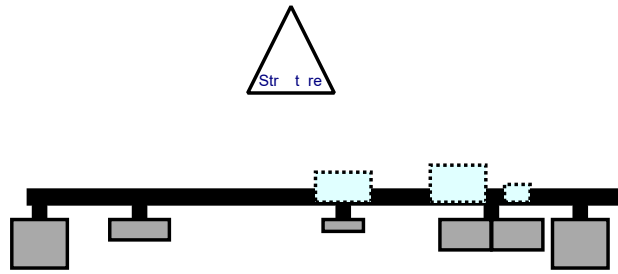
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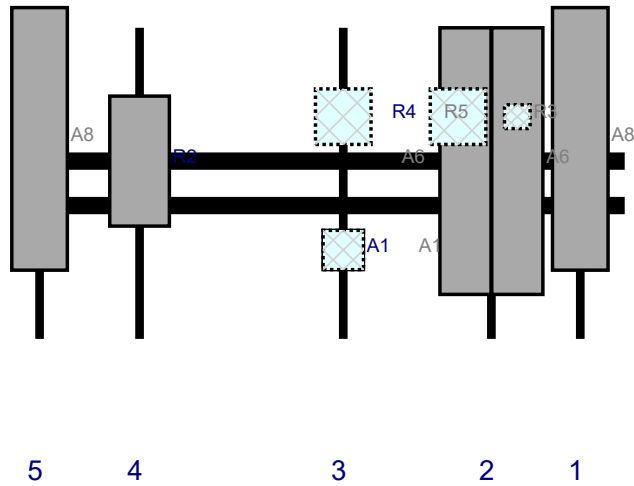
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P ge: 2

Plan View

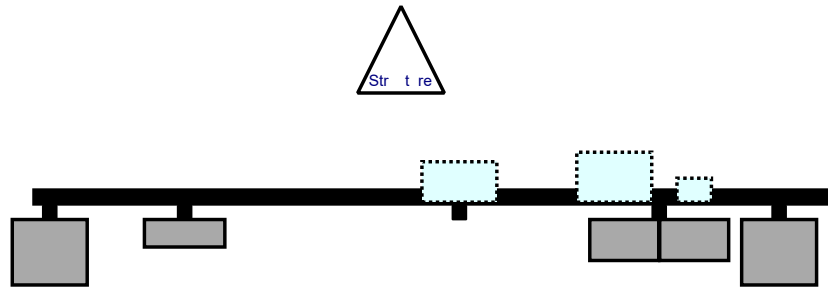


Front View - Looking at Structure

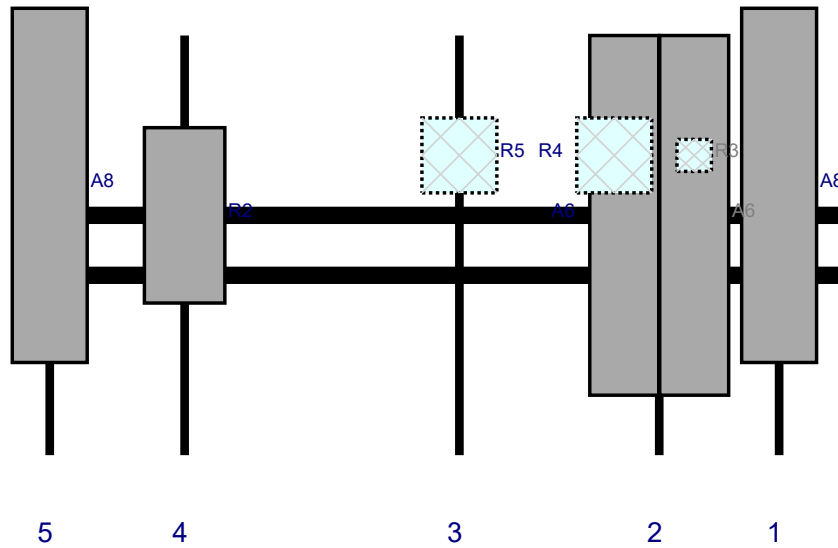


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A8	LPA-80063/6CF_5	70.9	15	149.5	1		Fro t	30	0	Ret i ed	02/05/2023
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R3	CBC78T-DS-43-2	6.4	6.9	125.5	2		Behi d	24	7	Ret i ed	02/05/2023
R4	B2/B66A RRRH-BR049 (RFV01U-D1A)	15	15	125.5	2		Behi d	24	-9	Ret i ed	02/05/2023
A1	A-6030	10.6	10.9	85.5	3		Fro t	60	0	Added	
A1	A-6030	10.6	10.9	85.5	3		Behi d	60	0	Added	
R5	B5/B13 RRRH-BR04C (RFV01U-D2A)	15	15	85.5	3		Behi d	24	0	Ret i ed	02/05/2023
R2	MT6407-77A	35.1	16.1	30.5	4		Fro t	36	0	Ret i ed	02/05/2023
A8	LPA-80063/6CF_5	70.9	15	3.5	5		Fro t	30	0	Ret i ed	02/05/2023

Plan View



Front View - Looking at Structure



Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
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R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	85.5	3		Behi d	24	0	Ret i ed	02/05/2023
R2	MT6407-77A	35.1	16.1	30.5	4		Fro t	36	0	Ret i ed	02/05/2023
A8	LPA-80063/6CF_5	70.9	15	3.5	5		Fro t	30	0	Ret i ed	02/05/2023

Feb 5, 2023 at 4:43:36 PM
2629-2669 Day Hill Rd
Windsor CT 06002
United States



Feb 5, 2023 at 3:33:25 PM
2629-2669 Day Hill Rd
Windsor CT 06002
United States





Desktop Mount Mapping Form

Site Name:	NORTH BLOOMFIELD CT	Tower Type:	Monopole
Site ID:		Tower Owner:	
PSLC:	468355	Tower Height (Ft.):	
Customer:		Mount Elevation (Ft.):	
Colliers Project No.:	21777461	Date:	4/9/2021

The information 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 PJF.

Document Type	Provided? (Yes/No)	Source Name	Project No.	Dated	Comments/Remarks
Previous Mount Mapping	No				
Previous Mapping Photos	No				
Previous Mount Analysis	Yes	N.Bloomfield Redline_Drawings.1	140310	12/4/2018	Provided and is the primary source of mount information for MA. It is a combination of the CDs and the MA in a single PDF. It seems only part of the MA is included but most information should be included. It would be good to ask for the full document, nonetheless.
Previous Mount Modifications	No				
Previous Structural Analysis	Yes	NORTHBLOOMFIELD_850LTEPASSINGS	OAA710465_C3_01	9/11/2017	Provided but not needed for MA.
Construction Drawings	Yes	N.Bloomfield Redline_Drawings.1	140310	12/4/2018	Provided and contains some helpful information in same document as MA.
Closeout Package	Yes				
Closeout Photos	Yes				Photos are helpful for MA
Handover Package	No				
New Build 445 Documentation	No				
Other	No				
Previous PMI	No				

The **desktop mount mapping** is based on the engineering review of the available site documents in FUZE, as listed above, in place of a full mount mapping. It is assumed that the information provided in the documents listed above, provide an accurate representation of the existing mount. EOR reserves the right and will typically require additional clarification and verification as will be included in the PMI requirements. During the Post Modification Inspection (PMI) process, the GC on site will be required to confirm all questions, confirmations, and validations as posed by the EOR. The engineering review for this desktop mount mapping was performed in accordance to the ANSI/TIA-222-H requirements and Verizon's NSTD446 standard.



Photo taken from: Closeout Package Photos

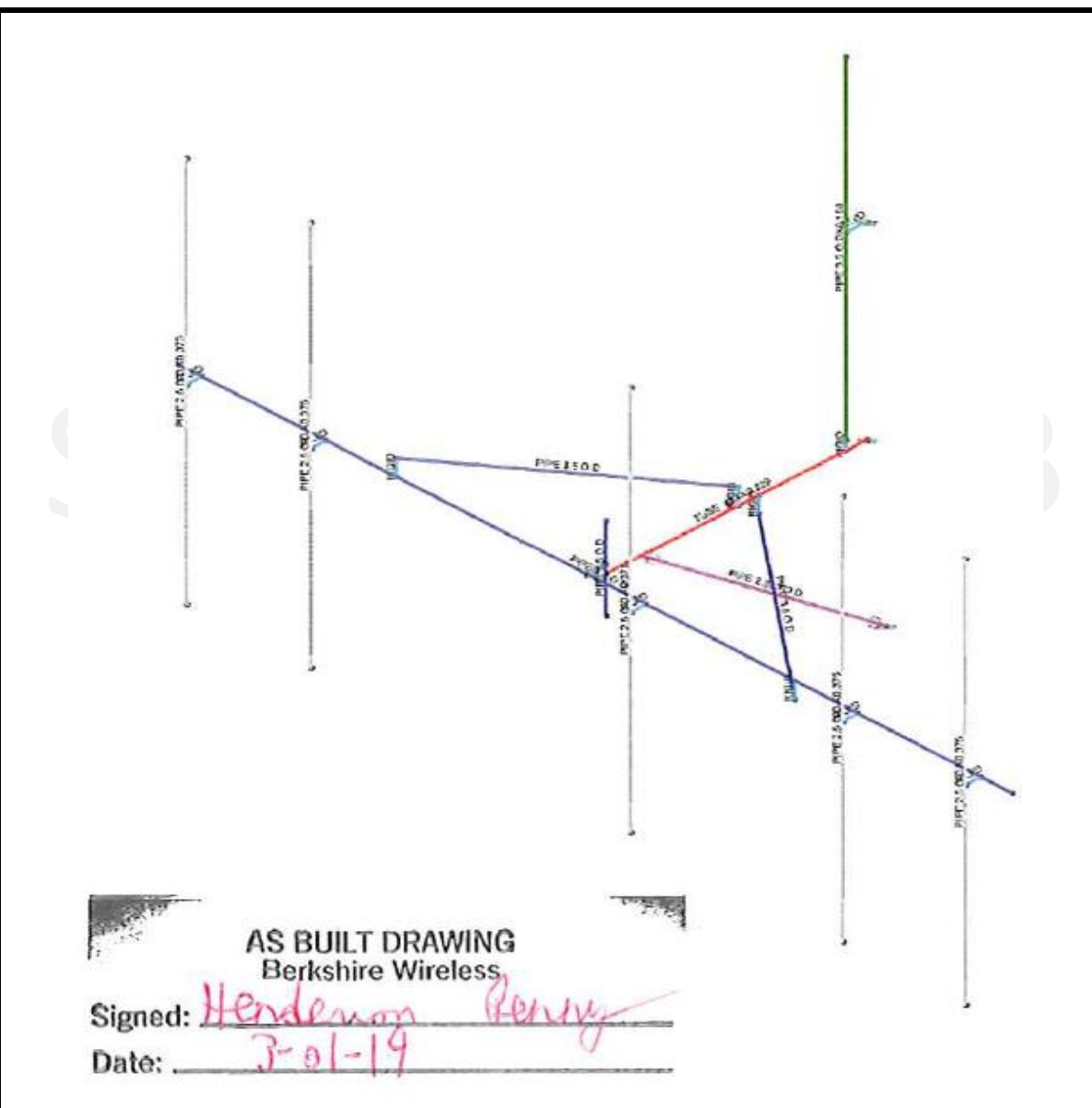
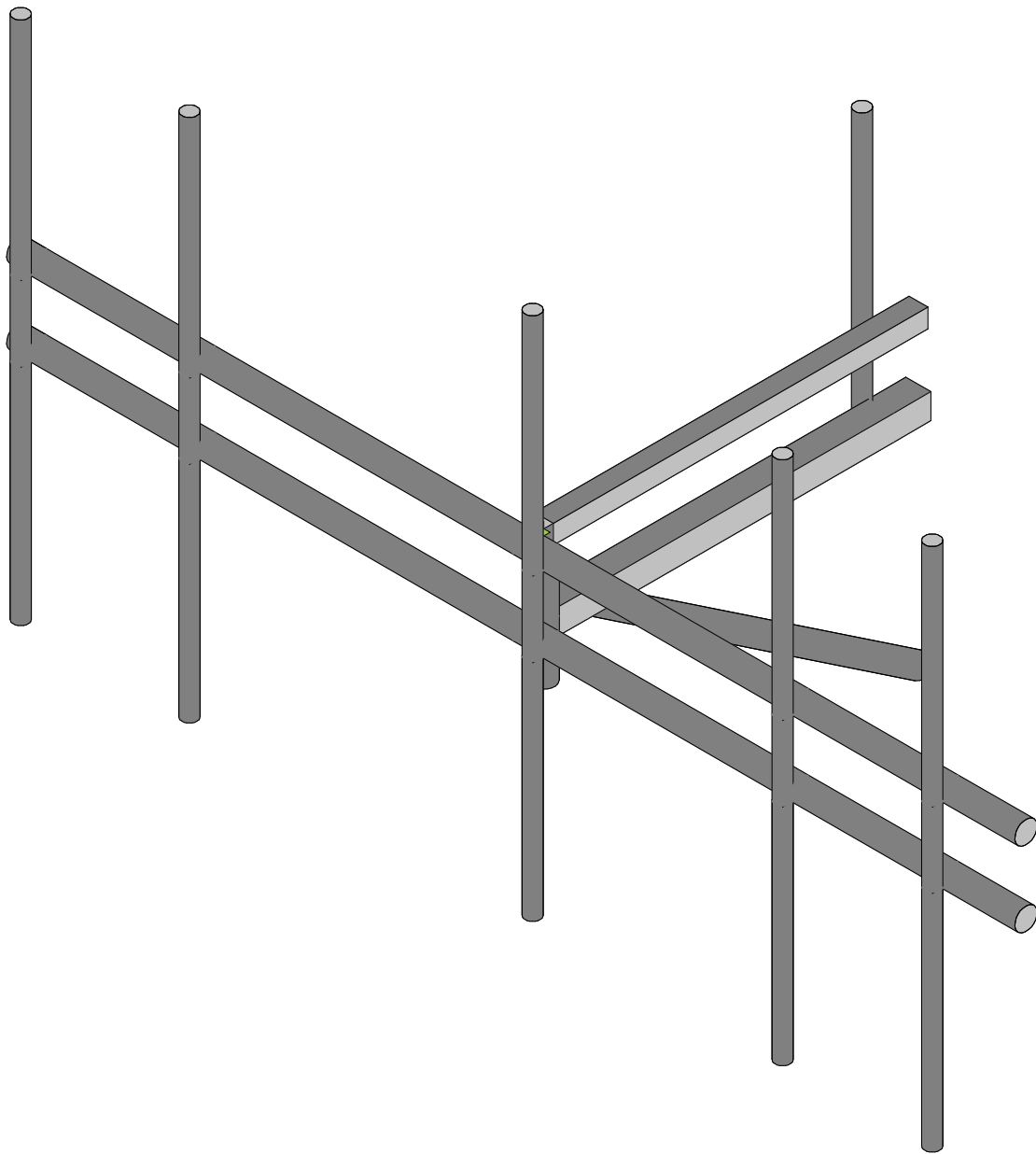
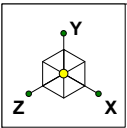


Photo taken from: Previous MA

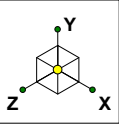


Envelope Only Solution

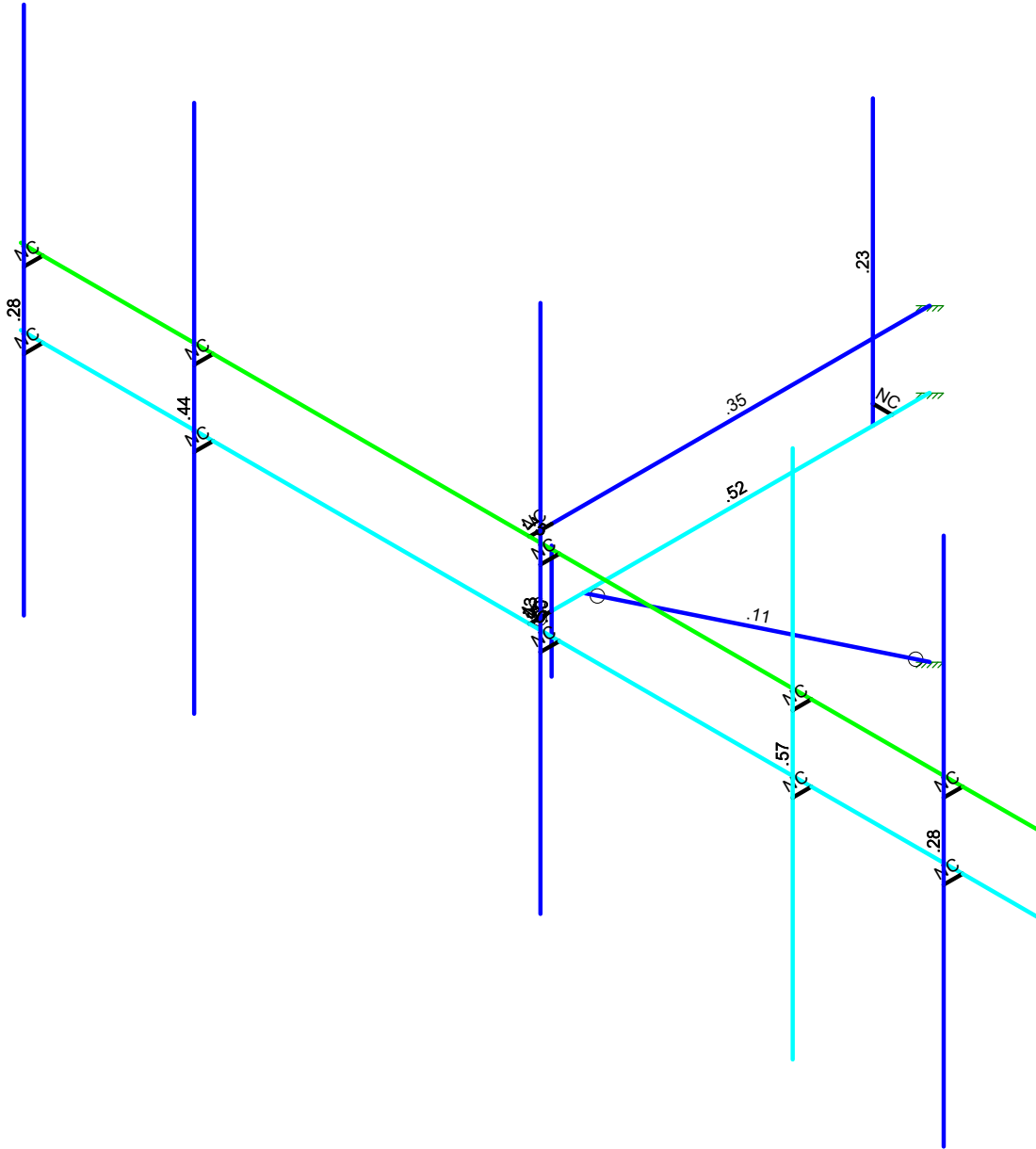
SK - 1

July 21, 2023 at 1:50 PM

5000103134-VZW_MT_LOT_A_H....

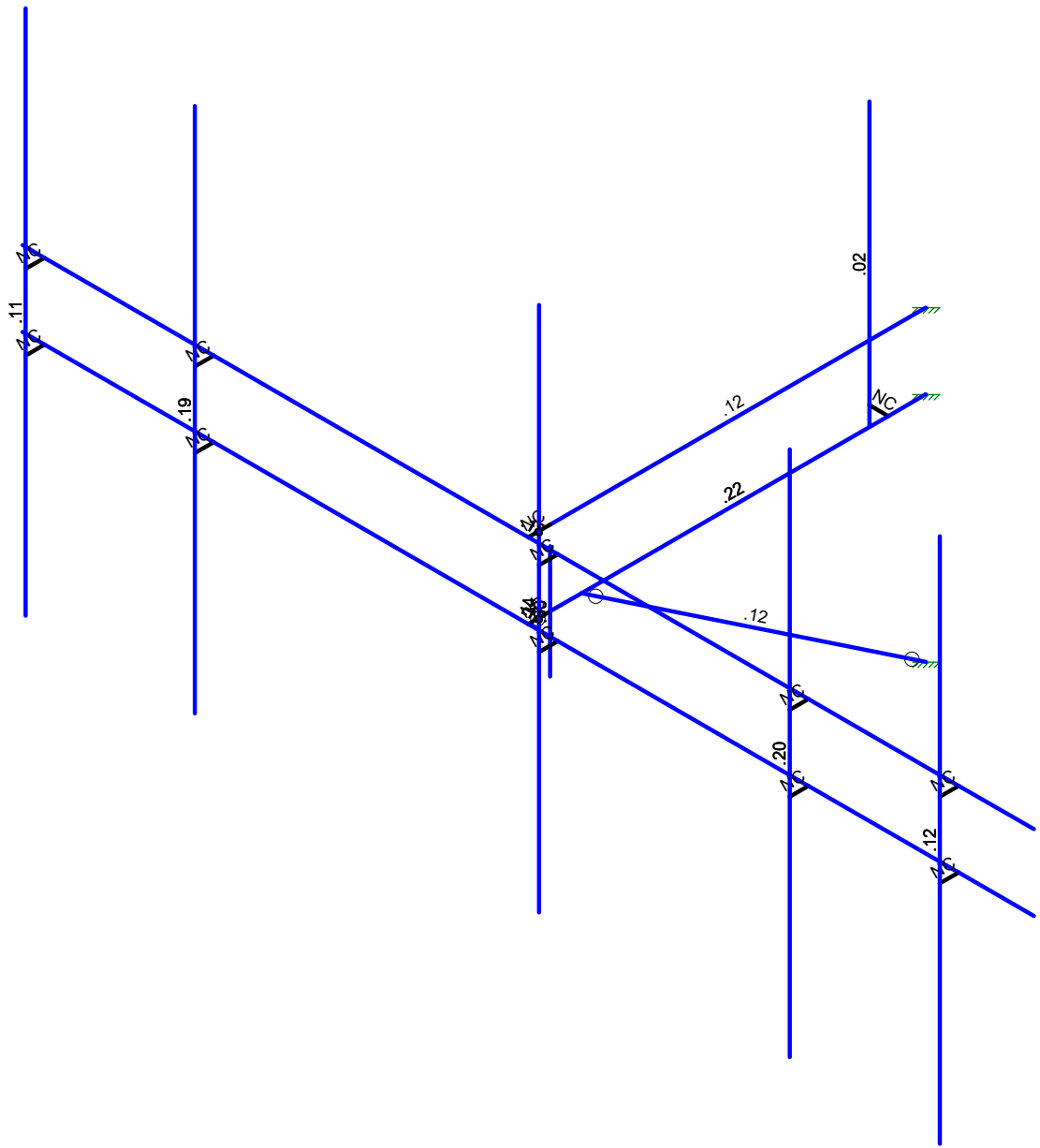
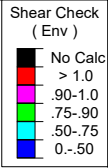
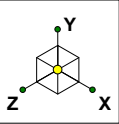


Code Check (Env)	
Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

	SK - 2
	July 21, 2023 at 1:50 PM
	5000103134-VZW_MT_LOT_A_H....



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 3
		July 21, 2023 at 1:51 PM
		5000103134-VZW_MT_LOT_A_H....

Basic Load Cases

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

Basic Load Cases (Continued)

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...
59 Structure Wi (180 Deg)	None						24
60 Structure Wi (210 Deg)	None						24
61 Structure Wi (240 Deg)	None						24
62 Structure Wi (270 Deg)	None						24
63 Structure Wi (300 Deg)	None						24
64 Structure Wi (330 Deg)	None						24
65 Structure Wm (0 Deg)	None						24
66 Structure Wm (30 Deg)	None						24
67 Structure Wm (60 Deg)	None						24
68 Structure Wm (90 Deg)	None						24
69 Structure Wm (120 Deg)	None						24
70 Structure Wm (150 Deg)	None						24
71 Structure Wm (180 Deg)	None						24
72 Structure Wm (210 Deg)	None						24
73 Structure Wm (240 Deg)	None						24
74 Structure Wm (270 Deg)	None						24
75 Structure Wm (300 Deg)	None						24
76 Structure Wm (330 Deg)	None						24
77 Lm1	None					1	
78 Lm2	None					1	
79 Lv1	None					1	
80 Lv2	None					1	
81 Antenna Ev	None					48	
82 Antenna Eh (0 Deg)	None					32	
83 Antenna Eh (90 Deg)	None					32	
84 Structure Ev	ELY		-.039				
85 Structure Eh (0 Deg)	ELZ			-.097			
86 Structure Eh (90 Deg)	ELX	.097					

Load Combinations

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

Load Combinations (Continued)

Description	So.	P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..		
27 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1						
28 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1						
29 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1						
30 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1						
31 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1						
32 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1						
33 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1						
34 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1						
35 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1						
36 1.2D + 1.5Lm1 + 1.0...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1						
37 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1						
38 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1						
39 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1						
40 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1						
41 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1						
42 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1						
43 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1						
44 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1						
45 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1						
46 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1						
47 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1						
48 1.2D + 1.5Lm2 + 1.0...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1						
49 1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5										
50 1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5										
51 1.4D	Yes	Y		1	1.4	39	1.4												
52 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83	ELZ	1	ELX		
53 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	.5	ELZ	.866	ELX	.5
54 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	.866	ELZ	.5	ELX	.866
55 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	1	ELZ		ELX	1
56 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	.866	ELZ	-.5	ELX	.866
57 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	.5	ELZ	-.866	ELX	.5
58 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
60 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
61 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866
63 1.2D + 1.0Ev + 1.0Eh ...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5
64 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5
66 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866
67 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866
69 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5
70 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
72 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
73 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866
75 0.9D - 1.0Ev + 1.0Eh (...)	Yes	Y		1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5

Joint Coordinates and Temperatures

Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1 N1	0	0	-3.09375	0	
2 N2	0	0	1.90625	0	
3 N3	0	-.75	1.90625	0	
4 N4	0	.75	1.90625	0	
5 N5	0	0	2.197917	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
6	N6	6.729167	0	2.197917	0	
7	N7	-6.729167	0	2.197917	0	
8	N11	5.729167	0	2.197917	0	
9	N12	5.729167	0	2.447917	0	
10	N13	5.729167	4	2.447917	0	
11	N14	5.729167	-3	2.447917	0	
12	N21	0	-.375	1.90625	0	
13	N24A	3.729167	0	2.197917	0	
14	N25	3.729167	0	2.447917	0	
15	N26	3.729167	4	2.447917	0	
16	N27	3.729167	-3	2.447917	0	
17	N28	0.395833	0	2.197917	0	
18	N29	0.395833	0	2.447917	0	
19	N30	0.395833	4	2.447917	0	
20	N31	0.395833	-3	2.447917	0	
21	N32	-4.1875	0	2.197917	0	
22	N33	-4.1875	0	2.447917	0	
23	N34	-4.1875	4	2.447917	0	
24	N35	-4.1875	-3	2.447917	0	
25	N36	-6.4375	0	2.197917	0	
26	N37	-6.4375	0	2.447917	0	
27	N38	-6.4375	4	2.447917	0	
28	N39	-6.4375	-3	2.447917	0	
29	N40	0	0	-2.59375	0	
30	N41	-.25	3.5	-2.59375	0	
31	N42	-.25	-.25	-2.59375	0	
32	N41A	6.729167	1	2.197917	0	
33	N42A	-6.729167	1	2.197917	0	
34	N43	5.729167	1	2.197917	0	
35	N44	5.729167	1	2.447917	0	
36	N45	3.729167	1	2.197917	0	
37	N46	3.729167	1	2.447917	0	
38	N47	0.395833	1	2.197917	0	
39	N48	0.395833	1	2.447917	0	
40	N49	-4.1875	1	2.197917	0	
41	N50	-4.1875	1	2.447917	0	
42	N51	-6.4375	1	2.197917	0	
43	N52	-6.4375	1	2.447917	0	
44	N53	0	1	-3.09375	0	
45	N54	0	1	1.90625	0	
46	N55	0	1	2.197917	0	
47	N47A	0	0	1.489583	0	
48	N48A	0	-3.083333	-3.09375	0	
49	N49A	-.25	0	-2.59375	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	2.5 pipe	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
4	Standoff Arm	HSS4X4X4	Beam	Tube	A500 Gr.46	Typical	3.37	7.8	7.8	12.8
5	Mod Standoff	HSS3X3X4	Beam	Tube	A500 Gr.46	Typical	2.44	3.02	3.02	5.08
6	Standoff Pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
7	Horizontal	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
8	MOD FACE	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
9	Kicker	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
10	MOD Bracing	L2.5x2.5x4	Column	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
11	MOD KICKER	LL3x3x3x6	Column	Single Angle	A36 Gr.36	Typical	2.18	4.97	1.9	.027

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Standoff Arm	Beam	Tube	A500 Gr.46	Typical
2	M2	N4	N3			Standoff Pipe	Column	Pipe	A53 Gr. B	Typical
3	FACE	N7	N6			Horizontal	Column	Pipe	A53 Gr. B	Typical
4	MP1A	N13	N14			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
5	M8	N11	N12			RIGID	None	None	RIGID	Typical
6	M10A	N2	N5			RIGID	None	None	RIGID	Typical
7	MP2A	N26	N27			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
8	LIVE1	N24A	N25			RIGID	None	None	RIGID	Typical
9	MP3A	N30	N31			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
10	LIVE2	N28	N29			RIGID	None	None	RIGID	Typical
11	MP4A	N34	N35			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
12	M21	N32	N33			RIGID	None	None	RIGID	Typical
13	MP5A	N38	N39			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
14	M23	N36	N37			RIGID	None	None	RIGID	Typical
15	OVP	N41	N42			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
16	M25	N40	N49A			RIGID	None	None	RIGID	Typical
17	M25A	N42A	N41A			MOD FACE	Column	Pipe	A53 Gr. B	Typical
18	M26	N43	N44			RIGID	None	None	RIGID	Typical
19	M27	N45	N46			RIGID	None	None	RIGID	Typical
20	M28	N47	N48			RIGID	None	None	RIGID	Typical
21	M29	N49	N50			RIGID	None	None	RIGID	Typical
22	M30	N51	N52			RIGID	None	None	RIGID	Typical
23	M31	N53	N54			Mod Standoff	Beam	Tube	A500 Gr.46	Typical
24	M32	N54	N55			RIGID	None	None	RIGID	Typical
25	M25B	N48A	N47A			Kicker	Column	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M2						Yes	** NA **			None
3	FACE						Yes	** NA **			None
4	MP1A						Yes	** NA **			None
5	M8						Yes	** NA **			None
6	M10A	OOOOXO					Yes	** NA **			None
7	MP2A						Yes	** NA **			None
8	LIVE1						Yes	** NA **			None
9	MP3A						Yes	** NA **			None
10	LIVE2						Yes	** NA **			None
11	MP4A						Yes	** NA **			None
12	M21						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
13	MP5A						Yes	** NA **			None
14	M23						Yes	** NA **			None
15	OVP						Yes	** NA **			None
16	M25						Yes	** NA **			None
17	M25A						Yes	** NA **			None
18	M26						Yes	** NA **			None
19	M27						Yes	** NA **			None
20	M28						Yes	** NA **			None
21	M29						Yes	** NA **			None
22	M30						Yes	** NA **			None
23	M31						Yes	Default			None
24	M32						Yes	** NA **			None
25	M25B	BenPIN	BenPIN				Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-17.6	5
2	MP3A	My	-.006	5
3	MP3A	Mz	0	5
4	MP3A	Y	-17.6	5
5	MP3A	My	.006	5
6	MP3A	Mz	0	5
7	MP4A	Y	-43.55	2
8	MP4A	My	-.022	2
9	MP4A	Mz	0	2
10	MP4A	Y	-43.55	4
11	MP4A	My	-.022	4
12	MP4A	Mz	0	4
13	MP2A	Y	-10.4	2
14	MP2A	My	.005	2
15	MP2A	Mz	.006	2
16	MP2A	Y	-84.4	2
17	MP2A	My	.042	2
18	MP2A	Mz	-.063	2
19	MP3A	Y	-70.3	2
20	MP3A	My	.035	2
21	MP3A	Mz	0	2
22	MP2A	Y	-31.65	.5
23	MP2A	My	-.016	.5
24	MP2A	Mz	-.018	.5
25	MP2A	Y	-31.65	5.5
26	MP2A	My	-.016	5.5
27	MP2A	Mz	-.018	5.5
28	MP2A	Y	-31.65	.5
29	MP2A	My	-.016	.5
30	MP2A	Mz	.018	.5
31	MP2A	Y	-31.65	5.5
32	MP2A	My	-.016	5.5
33	MP2A	Mz	.018	5.5
34	MP1A	Y	-13.5	.5
35	MP1A	My	-.007	.5
36	MP1A	Mz	0	.5
37	MP1A	Y	-13.5	4.5
38	MP1A	My	-.007	4.5
39	MP1A	Mz	0	4.5
40	MP5A	Y	-13.5	.5
41	MP5A	My	-.007	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
42	MP5A	Mz	0	.5
43	MP5A	Y	-13.5	4.5
44	MP5A	My	-.007	4.5
45	MP5A	Mz	0	4.5
46	OVP	Y	-32	.5
47	OVP	My	0	.5
48	OVP	Mz	0	.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Y	6.6	5
2	MP3A	My	.002	5
3	MP3A	Mz	0	5
4	MP3A	Y	6.6	5
5	MP3A	My	-.002	5
6	MP3A	Mz	0	5
7	MP4A	Y	-54.84	2
8	MP4A	My	-.027	2
9	MP4A	Mz	0	2
10	MP4A	Y	-54.84	4
11	MP4A	My	-.027	4
12	MP4A	Mz	0	4
13	MP2A	Y	-17.709	2
14	MP2A	My	.009	2
15	MP2A	Mz	.01	2
16	MP2A	Y	-69.659	2
17	MP2A	My	.035	2
18	MP2A	Mz	-.052	2
19	MP3A	Y	-62.875	2
20	MP3A	My	.031	2
21	MP3A	Mz	0	2
22	MP2A	Y	-106.748	.5
23	MP2A	My	-.053	.5
24	MP2A	Mz	-.062	.5
25	MP2A	Y	-106.748	5.5
26	MP2A	My	-.053	5.5
27	MP2A	Mz	-.062	5.5
28	MP2A	Y	-106.748	.5
29	MP2A	My	-.053	.5
30	MP2A	Mz	.062	.5
31	MP2A	Y	-106.748	5.5
32	MP2A	My	-.053	5.5
33	MP2A	Mz	.062	5.5
34	MP1A	Y	-134.354	.5
35	MP1A	My	-.067	.5
36	MP1A	Mz	0	.5
37	MP1A	Y	-134.354	4.5
38	MP1A	My	-.067	4.5
39	MP1A	Mz	0	4.5
40	MP5A	Y	-134.354	.5
41	MP5A	My	-.067	.5
42	MP5A	Mz	0	.5
43	MP5A	Y	-134.354	4.5
44	MP5A	My	-.067	4.5
45	MP5A	Mz	0	4.5
46	OVP	Y	-97.935	.5
47	OVP	My	0	.5
48	OVP	Mz	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	5
2	MP3A	Z	-38.597	5
3	MP3A	Mx	0	5
4	MP3A	X	0	5
5	MP3A	Z	-38.597	5
6	MP3A	Mx	0	5
7	MP4A	X	0	2
8	MP4A	Z	-78.801	2
9	MP4A	Mx	0	2
10	MP4A	X	0	4
11	MP4A	Z	-78.801	4
12	MP4A	Mx	0	4
13	MP2A	X	0	2
14	MP2A	Z	-14.876	2
15	MP2A	Mx	-.009	2
16	MP2A	X	0	2
17	MP2A	Z	-62.317	2
18	MP2A	Mx	.047	2
19	MP3A	X	0	2
20	MP3A	Z	-62.317	2
21	MP3A	Mx	0	2
22	MP2A	X	0	.5
23	MP2A	Z	-183.133	.5
24	MP2A	Mx	.107	.5
25	MP2A	X	0	5.5
26	MP2A	Z	-183.133	5.5
27	MP2A	Mx	.107	5.5
28	MP2A	X	0	.5
29	MP2A	Z	-183.133	.5
30	MP2A	Mx	-.107	.5
31	MP2A	X	0	5.5
32	MP2A	Z	-183.133	5.5
33	MP2A	Mx	-.107	5.5
34	MP1A	X	0	.5
35	MP1A	Z	-192.983	.5
36	MP1A	Mx	0	.5
37	MP1A	X	0	4.5
38	MP1A	Z	-192.983	4.5
39	MP1A	Mx	0	4.5
40	MP5A	X	0	.5
41	MP5A	Z	-192.983	.5
42	MP5A	Mx	0	.5
43	MP5A	X	0	4.5
44	MP5A	Z	-192.983	4.5
45	MP5A	Mx	0	4.5
46	OVP	X	0	.5
47	OVP	Z	-123.875	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	15.937	5
2	MP3A	Z	-27.604	5
3	MP3A	Mx	-.005	5
4	MP3A	X	15.937	5
5	MP3A	Z	-27.604	5
6	MP3A	Mx	.005	5
7	MP4A	X	32.943	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
8	MP4A	Z	-57.059	2
9	MP4A	Mx	-.016	2
10	MP4A	X	32.943	4
11	MP4A	Z	-57.059	4
12	MP4A	Mx	-.016	4
13	MP2A	X	6.865	2
14	MP2A	Z	-11.89	2
15	MP2A	Mx	-.004	2
16	MP2A	X	28.596	2
17	MP2A	Z	-49.529	2
18	MP2A	Mx	.051	2
19	MP3A	X	27.641	2
20	MP3A	Z	-47.875	2
21	MP3A	Mx	.014	2
22	MP2A	X	83.71	.5
23	MP2A	Z	-144.99	.5
24	MP2A	Mx	.043	.5
25	MP2A	X	83.71	5.5
26	MP2A	Z	-144.99	5.5
27	MP2A	Mx	.043	5.5
28	MP2A	X	83.71	.5
29	MP2A	Z	-144.99	.5
30	MP2A	Mx	-.126	.5
31	MP2A	X	83.71	5.5
32	MP2A	Z	-144.99	5.5
33	MP2A	Mx	-.126	5.5
34	MP1A	X	93.915	.5
35	MP1A	Z	-162.666	.5
36	MP1A	Mx	-.047	.5
37	MP1A	X	93.915	4.5
38	MP1A	Z	-162.666	4.5
39	MP1A	Mx	-.047	4.5
40	MP5A	X	93.915	.5
41	MP5A	Z	-162.666	.5
42	MP5A	Mx	-.047	.5
43	MP5A	X	93.915	4.5
44	MP5A	Z	-162.666	4.5
45	MP5A	Mx	-.047	4.5
46	OVP	X	63.264	.5
47	OVP	Z	-109.576	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	15.96	5
2	MP3A	Z	-9.215	5
3	MP3A	Mx	-.005	5
4	MP3A	X	15.96	5
5	MP3A	Z	-9.215	5
6	MP3A	Mx	.005	5
7	MP4A	X	34.688	2
8	MP4A	Z	-20.027	2
9	MP4A	Mx	-.017	2
10	MP4A	X	34.688	4
11	MP4A	Z	-20.027	4
12	MP4A	Mx	-.017	4
13	MP2A	X	9.906	2
14	MP2A	Z	-5.719	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2A	Mx	.002	2
16	MP2A	X	40.65	2
17	MP2A	Z	-23.47	2
18	MP2A	Mx	.038	2
19	MP3A	X	35.689	2
20	MP3A	Z	-20.605	2
21	MP3A	Mx	.018	2
22	MP2A	X	117.773	.5
23	MP2A	Z	-67.996	.5
24	MP2A	Mx	-.019	.5
25	MP2A	X	117.773	5.5
26	MP2A	Z	-67.996	5.5
27	MP2A	Mx	-.019	5.5
28	MP2A	X	117.773	.5
29	MP2A	Z	-67.996	.5
30	MP2A	Mx	-.099	.5
31	MP2A	X	117.773	5.5
32	MP2A	Z	-67.996	5.5
33	MP2A	Mx	-.099	5.5
34	MP1A	X	153.742	.5
35	MP1A	Z	-88.763	.5
36	MP1A	Mx	-.077	.5
37	MP1A	X	153.742	4.5
38	MP1A	Z	-88.763	4.5
39	MP1A	Mx	-.077	4.5
40	MP5A	X	153.742	.5
41	MP5A	Z	-88.763	.5
42	MP5A	Mx	-.077	.5
43	MP5A	X	153.742	4.5
44	MP5A	Z	-88.763	4.5
45	MP5A	Mx	-.077	4.5
46	OVP	X	99.441	.5
47	OVP	Z	-57.412	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	11.707	5
2	MP3A	Z	0	5
3	MP3A	Mx	-.004	5
4	MP3A	X	11.707	5
5	MP3A	Z	0	5
6	MP3A	Mx	.004	5
7	MP4A	X	27.138	2
8	MP4A	Z	0	2
9	MP4A	Mx	-.014	2
10	MP4A	X	27.138	4
11	MP4A	Z	0	4
12	MP4A	Mx	-.014	4
13	MP2A	X	10.292	2
14	MP2A	Z	0	2
15	MP2A	Mx	.005	2
16	MP2A	X	41.813	2
17	MP2A	Z	0	2
18	MP2A	Mx	.021	2
19	MP3A	X	34.174	2
20	MP3A	Z	0	2
21	MP3A	Mx	.017	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
22	MP2A	X	120.279	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.06	.5
25	MP2A	X	120.279	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.06	5.5
28	MP2A	X	120.279	.5
29	MP2A	Z	0	.5
30	MP2A	Mx	-.06	.5
31	MP2A	X	120.279	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	-.06	5.5
34	MP1A	X	172.373	.5
35	MP1A	Z	0	.5
36	MP1A	Mx	-.086	.5
37	MP1A	X	172.373	4.5
38	MP1A	Z	0	4.5
39	MP1A	Mx	-.086	4.5
40	MP5A	X	172.373	.5
41	MP5A	Z	0	.5
42	MP5A	Mx	-.086	.5
43	MP5A	X	172.373	4.5
44	MP5A	Z	0	4.5
45	MP5A	Mx	-.086	4.5
46	OVP	X	100.468	.5
47	OVP	Z	0	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	15.96	5
2	MP3A	Z	9.215	5
3	MP3A	Mx	-.005	5
4	MP3A	X	15.96	5
5	MP3A	Z	9.215	5
6	MP3A	Mx	.005	5
7	MP4A	X	34.688	2
8	MP4A	Z	20.027	2
9	MP4A	Mx	-.017	2
10	MP4A	X	34.688	4
11	MP4A	Z	20.027	4
12	MP4A	Mx	-.017	4
13	MP2A	X	9.906	2
14	MP2A	Z	5.719	2
15	MP2A	Mx	.008	2
16	MP2A	X	40.65	2
17	MP2A	Z	23.47	2
18	MP2A	Mx	.003	2
19	MP3A	X	35.689	2
20	MP3A	Z	20.605	2
21	MP3A	Mx	.018	2
22	MP2A	X	117.773	.5
23	MP2A	Z	67.996	.5
24	MP2A	Mx	-.099	.5
25	MP2A	X	117.773	5.5
26	MP2A	Z	67.996	5.5
27	MP2A	Mx	-.099	5.5
28	MP2A	X	117.773	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP2A	Z	67.996	.5
30	MP2A	Mx	-.019	.5
31	MP2A	X	117.773	5.5
32	MP2A	Z	67.996	5.5
33	MP2A	Mx	-.019	5.5
34	MP1A	X	153.742	.5
35	MP1A	Z	88.763	.5
36	MP1A	Mx	-.077	.5
37	MP1A	X	153.742	4.5
38	MP1A	Z	88.763	4.5
39	MP1A	Mx	-.077	4.5
40	MP5A	X	153.742	.5
41	MP5A	Z	88.763	.5
42	MP5A	Mx	-.077	.5
43	MP5A	X	153.742	4.5
44	MP5A	Z	88.763	4.5
45	MP5A	Mx	-.077	4.5
46	OVP	X	84.71	.5
47	OVP	Z	48.907	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	15.937	5
2	MP3A	Z	27.604	5
3	MP3A	Mx	-.005	5
4	MP3A	X	15.937	5
5	MP3A	Z	27.604	5
6	MP3A	Mx	.005	5
7	MP4A	X	32.943	2
8	MP4A	Z	57.059	2
9	MP4A	Mx	-.016	2
10	MP4A	X	32.943	4
11	MP4A	Z	57.059	4
12	MP4A	Mx	-.016	4
13	MP2A	X	6.865	2
14	MP2A	Z	11.89	2
15	MP2A	Mx	.01	2
16	MP2A	X	28.596	2
17	MP2A	Z	49.529	2
18	MP2A	Mx	-.023	2
19	MP3A	X	27.641	2
20	MP3A	Z	47.875	2
21	MP3A	Mx	.014	2
22	MP2A	X	83.71	.5
23	MP2A	Z	144.99	.5
24	MP2A	Mx	-.126	.5
25	MP2A	X	83.71	5.5
26	MP2A	Z	144.99	5.5
27	MP2A	Mx	-.126	5.5
28	MP2A	X	83.71	.5
29	MP2A	Z	144.99	.5
30	MP2A	Mx	.043	.5
31	MP2A	X	83.71	5.5
32	MP2A	Z	144.99	5.5
33	MP2A	Mx	.043	5.5
34	MP1A	X	93.915	.5
35	MP1A	Z	162.666	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
36	MP1A	Mx	-.047	.5
37	MP1A	X	93.915	4.5
38	MP1A	Z	162.666	4.5
39	MP1A	Mx	-.047	4.5
40	MP5A	X	93.915	.5
41	MP5A	Z	162.666	.5
42	MP5A	Mx	-.047	.5
43	MP5A	X	93.915	4.5
44	MP5A	Z	162.666	4.5
45	MP5A	Mx	-.047	4.5
46	OVP	X	54.759	.5
47	OVP	Z	94.846	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	5
2	MP3A	Z	38.597	5
3	MP3A	Mx	0	5
4	MP3A	X	0	5
5	MP3A	Z	38.597	5
6	MP3A	Mx	0	5
7	MP4A	X	0	2
8	MP4A	Z	78.801	2
9	MP4A	Mx	0	2
10	MP4A	X	0	4
11	MP4A	Z	78.801	4
12	MP4A	Mx	0	4
13	MP2A	X	0	2
14	MP2A	Z	14.876	2
15	MP2A	Mx	.009	2
16	MP2A	X	0	2
17	MP2A	Z	62.317	2
18	MP2A	Mx	-.047	2
19	MP3A	X	0	2
20	MP3A	Z	62.317	2
21	MP3A	Mx	0	2
22	MP2A	X	0	.5
23	MP2A	Z	183.133	.5
24	MP2A	Mx	-.107	.5
25	MP2A	X	0	5.5
26	MP2A	Z	183.133	5.5
27	MP2A	Mx	-.107	5.5
28	MP2A	X	0	.5
29	MP2A	Z	183.133	.5
30	MP2A	Mx	.107	.5
31	MP2A	X	0	5.5
32	MP2A	Z	183.133	5.5
33	MP2A	Mx	.107	5.5
34	MP1A	X	0	.5
35	MP1A	Z	192.983	.5
36	MP1A	Mx	0	.5
37	MP1A	X	0	4.5
38	MP1A	Z	192.983	4.5
39	MP1A	Mx	0	4.5
40	MP5A	X	0	.5
41	MP5A	Z	192.983	.5
42	MP5A	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP5A	X	0	4.5
44	MP5A	Z	192.983	4.5
45	MP5A	Mx	0	4.5
46	OVP	X	0	.5
47	OVP	Z	123.875	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-15.937	5
2	MP3A	Z	27.604	5
3	MP3A	Mx	.005	5
4	MP3A	X	-15.937	5
5	MP3A	Z	27.604	5
6	MP3A	Mx	-.005	5
7	MP4A	X	-32.943	2
8	MP4A	Z	57.059	2
9	MP4A	Mx	.016	2
10	MP4A	X	-32.943	4
11	MP4A	Z	57.059	4
12	MP4A	Mx	.016	4
13	MP2A	X	-6.865	2
14	MP2A	Z	11.89	2
15	MP2A	Mx	.004	2
16	MP2A	X	-28.596	2
17	MP2A	Z	49.529	2
18	MP2A	Mx	-.051	2
19	MP3A	X	-27.641	2
20	MP3A	Z	47.875	2
21	MP3A	Mx	-.014	2
22	MP2A	X	-83.71	.5
23	MP2A	Z	144.99	.5
24	MP2A	Mx	-.043	.5
25	MP2A	X	-83.71	5.5
26	MP2A	Z	144.99	5.5
27	MP2A	Mx	-.043	5.5
28	MP2A	X	-83.71	.5
29	MP2A	Z	144.99	.5
30	MP2A	Mx	.126	.5
31	MP2A	X	-83.71	5.5
32	MP2A	Z	144.99	5.5
33	MP2A	Mx	.126	5.5
34	MP1A	X	-93.915	.5
35	MP1A	Z	162.666	.5
36	MP1A	Mx	.047	.5
37	MP1A	X	-93.915	4.5
38	MP1A	Z	162.666	4.5
39	MP1A	Mx	.047	4.5
40	MP5A	X	-93.915	.5
41	MP5A	Z	162.666	.5
42	MP5A	Mx	.047	.5
43	MP5A	X	-93.915	4.5
44	MP5A	Z	162.666	4.5
45	MP5A	Mx	.047	4.5
46	OVP	X	-63.264	.5
47	OVP	Z	109.576	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-15.96	5
2	MP3A	Z	9.215	5
3	MP3A	Mx	.005	5
4	MP3A	X	-15.96	5
5	MP3A	Z	9.215	5
6	MP3A	Mx	-.005	5
7	MP4A	X	-34.688	2
8	MP4A	Z	20.027	2
9	MP4A	Mx	.017	2
10	MP4A	X	-34.688	4
11	MP4A	Z	20.027	4
12	MP4A	Mx	.017	4
13	MP2A	X	-9.906	2
14	MP2A	Z	5.719	2
15	MP2A	Mx	-.002	2
16	MP2A	X	-40.65	2
17	MP2A	Z	23.47	2
18	MP2A	Mx	-.038	2
19	MP3A	X	-35.689	2
20	MP3A	Z	20.605	2
21	MP3A	Mx	-.018	2
22	MP2A	X	-117.773	.5
23	MP2A	Z	67.996	.5
24	MP2A	Mx	.019	.5
25	MP2A	X	-117.773	5.5
26	MP2A	Z	67.996	5.5
27	MP2A	Mx	.019	5.5
28	MP2A	X	-117.773	.5
29	MP2A	Z	67.996	.5
30	MP2A	Mx	.099	.5
31	MP2A	X	-117.773	5.5
32	MP2A	Z	67.996	5.5
33	MP2A	Mx	.099	5.5
34	MP1A	X	-153.742	.5
35	MP1A	Z	88.763	.5
36	MP1A	Mx	.077	.5
37	MP1A	X	-153.742	4.5
38	MP1A	Z	88.763	4.5
39	MP1A	Mx	.077	4.5
40	MP5A	X	-153.742	.5
41	MP5A	Z	88.763	.5
42	MP5A	Mx	.077	.5
43	MP5A	X	-153.742	4.5
44	MP5A	Z	88.763	4.5
45	MP5A	Mx	.077	4.5
46	OVP	X	-99.441	.5
47	OVP	Z	57.412	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-11.707	5
2	MP3A	Z	0	5
3	MP3A	Mx	.004	5
4	MP3A	X	-11.707	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.004	5
7	MP4A	X	-27.138	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
8	MP4A	Z	0	2
9	MP4A	Mx	.014	2
10	MP4A	X	-27.138	4
11	MP4A	Z	0	4
12	MP4A	Mx	.014	4
13	MP2A	X	-10.292	2
14	MP2A	Z	0	2
15	MP2A	Mx	-.005	2
16	MP2A	X	-41.813	2
17	MP2A	Z	0	2
18	MP2A	Mx	-.021	2
19	MP3A	X	-34.174	2
20	MP3A	Z	0	2
21	MP3A	Mx	-.017	2
22	MP2A	X	-120.279	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.06	.5
25	MP2A	X	-120.279	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.06	5.5
28	MP2A	X	-120.279	.5
29	MP2A	Z	0	.5
30	MP2A	Mx	.06	.5
31	MP2A	X	-120.279	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	.06	5.5
34	MP1A	X	-172.373	.5
35	MP1A	Z	0	.5
36	MP1A	Mx	.086	.5
37	MP1A	X	-172.373	4.5
38	MP1A	Z	0	4.5
39	MP1A	Mx	.086	4.5
40	MP5A	X	-172.373	.5
41	MP5A	Z	0	.5
42	MP5A	Mx	.086	.5
43	MP5A	X	-172.373	4.5
44	MP5A	Z	0	4.5
45	MP5A	Mx	.086	4.5
46	OVP	X	-100.468	.5
47	OVP	Z	0	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-15.96	5
2	MP3A	Z	-9.215	5
3	MP3A	Mx	.005	5
4	MP3A	X	-15.96	5
5	MP3A	Z	-9.215	5
6	MP3A	Mx	-.005	5
7	MP4A	X	-34.688	2
8	MP4A	Z	-20.027	2
9	MP4A	Mx	.017	2
10	MP4A	X	-34.688	4
11	MP4A	Z	-20.027	4
12	MP4A	Mx	.017	4
13	MP2A	X	-9.906	2
14	MP2A	Z	-5.719	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2A	Mx	-.008	2
16	MP2A	X	-40.65	2
17	MP2A	Z	-23.47	2
18	MP2A	Mx	-.003	2
19	MP3A	X	-35.689	2
20	MP3A	Z	-20.605	2
21	MP3A	Mx	-.018	2
22	MP2A	X	-117.773	.5
23	MP2A	Z	-67.996	.5
24	MP2A	Mx	.099	.5
25	MP2A	X	-117.773	5.5
26	MP2A	Z	-67.996	5.5
27	MP2A	Mx	.099	5.5
28	MP2A	X	-117.773	.5
29	MP2A	Z	-67.996	.5
30	MP2A	Mx	.019	.5
31	MP2A	X	-117.773	5.5
32	MP2A	Z	-67.996	5.5
33	MP2A	Mx	.019	5.5
34	MP1A	X	-153.742	.5
35	MP1A	Z	-88.763	.5
36	MP1A	Mx	.077	.5
37	MP1A	X	-153.742	4.5
38	MP1A	Z	-88.763	4.5
39	MP1A	Mx	.077	4.5
40	MP5A	X	-153.742	.5
41	MP5A	Z	-88.763	.5
42	MP5A	Mx	.077	.5
43	MP5A	X	-153.742	4.5
44	MP5A	Z	-88.763	4.5
45	MP5A	Mx	.077	4.5
46	OVP	X	-84.71	.5
47	OVP	Z	-48.907	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-15.937	5
2	MP3A	Z	-27.604	5
3	MP3A	Mx	.005	5
4	MP3A	X	-15.937	5
5	MP3A	Z	-27.604	5
6	MP3A	Mx	-.005	5
7	MP4A	X	-32.943	2
8	MP4A	Z	-57.059	2
9	MP4A	Mx	.016	2
10	MP4A	X	-32.943	4
11	MP4A	Z	-57.059	4
12	MP4A	Mx	.016	4
13	MP2A	X	-6.865	2
14	MP2A	Z	-11.89	2
15	MP2A	Mx	-.01	2
16	MP2A	X	-28.596	2
17	MP2A	Z	-49.529	2
18	MP2A	Mx	.023	2
19	MP3A	X	-27.641	2
20	MP3A	Z	-47.875	2
21	MP3A	Mx	-.014	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
22	MP2A	X	-83.71	.5
23	MP2A	Z	-144.99	.5
24	MP2A	Mx	.126	.5
25	MP2A	X	-83.71	5.5
26	MP2A	Z	-144.99	5.5
27	MP2A	Mx	.126	5.5
28	MP2A	X	-83.71	.5
29	MP2A	Z	-144.99	.5
30	MP2A	Mx	-.043	.5
31	MP2A	X	-83.71	5.5
32	MP2A	Z	-144.99	5.5
33	MP2A	Mx	-.043	5.5
34	MP1A	X	-93.915	.5
35	MP1A	Z	-162.666	.5
36	MP1A	Mx	.047	.5
37	MP1A	X	-93.915	4.5
38	MP1A	Z	-162.666	4.5
39	MP1A	Mx	.047	4.5
40	MP5A	X	-93.915	.5
41	MP5A	Z	-162.666	.5
42	MP5A	Mx	.047	.5
43	MP5A	X	-93.915	4.5
44	MP5A	Z	-162.666	4.5
45	MP5A	Mx	.047	4.5
46	OVP	X	-54.759	.5
47	OVP	Z	-94.846	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	5
2	MP3A	Z	-9.569	5
3	MP3A	Mx	0	5
4	MP3A	X	0	5
5	MP3A	Z	-9.569	5
6	MP3A	Mx	0	5
7	MP4A	X	0	2
8	MP4A	Z	-19.56	2
9	MP4A	Mx	0	2
10	MP4A	X	0	4
11	MP4A	Z	-19.56	4
12	MP4A	Mx	0	4
13	MP2A	X	0	2
14	MP2A	Z	-4.478	2
15	MP2A	Mx	-.003	2
16	MP2A	X	0	2
17	MP2A	Z	-16.909	2
18	MP2A	Mx	.013	2
19	MP3A	X	0	2
20	MP3A	Z	-16.909	2
21	MP3A	Mx	0	2
22	MP2A	X	0	.5
23	MP2A	Z	-36.33	.5
24	MP2A	Mx	.021	.5
25	MP2A	X	0	5.5
26	MP2A	Z	-36.33	5.5
27	MP2A	Mx	.021	5.5
28	MP2A	X	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP2A	Z	-36.33	.5
30	MP2A	Mx	-.021	.5
31	MP2A	X	0	5.5
32	MP2A	Z	-36.33	5.5
33	MP2A	Mx	-.021	5.5
34	MP1A	X	0	.5
35	MP1A	Z	-38.058	.5
36	MP1A	Mx	0	.5
37	MP1A	X	0	4.5
38	MP1A	Z	-38.058	4.5
39	MP1A	Mx	0	4.5
40	MP5A	X	0	.5
41	MP5A	Z	-38.058	.5
42	MP5A	Mx	0	.5
43	MP5A	X	0	4.5
44	MP5A	Z	-38.058	4.5
45	MP5A	Mx	0	4.5
46	OVP	X	0	.5
47	OVP	Z	-24.904	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	4.081	5
2	MP3A	Z	-7.068	5
3	MP3A	Mx	-.001	5
4	MP3A	X	4.081	5
5	MP3A	Z	-7.068	5
6	MP3A	Mx	.001	5
7	MP4A	X	8.417	2
8	MP4A	Z	-14.579	2
9	MP4A	Mx	-.004	2
10	MP4A	X	8.417	4
11	MP4A	Z	-14.579	4
12	MP4A	Mx	-.004	4
13	MP2A	X	2.111	2
14	MP2A	Z	-3.657	2
15	MP2A	Mx	-.001	2
16	MP2A	X	7.838	2
17	MP2A	Z	-13.575	2
18	MP2A	Mx	.014	2
19	MP3A	X	7.603	2
20	MP3A	Z	-13.169	2
21	MP3A	Mx	.004	2
22	MP2A	X	16.763	.5
23	MP2A	Z	-29.035	.5
24	MP2A	Mx	.009	.5
25	MP2A	X	16.763	5.5
26	MP2A	Z	-29.035	5.5
27	MP2A	Mx	.009	5.5
28	MP2A	X	16.763	.5
29	MP2A	Z	-29.035	.5
30	MP2A	Mx	-.025	.5
31	MP2A	X	16.763	5.5
32	MP2A	Z	-29.035	5.5
33	MP2A	Mx	-.025	5.5
34	MP1A	X	18.565	.5
35	MP1A	Z	-32.155	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
36	MP1A	Mx	-0.009	.5
37	MP1A	X	18.565	4.5
38	MP1A	Z	-32.155	4.5
39	MP1A	Mx	-0.009	4.5
40	MP5A	X	18.565	.5
41	MP5A	Z	-32.155	.5
42	MP5A	Mx	-0.009	.5
43	MP5A	X	18.565	4.5
44	MP5A	Z	-32.155	4.5
45	MP5A	Mx	-0.009	4.5
46	OVP	X	12.792	.5
47	OVP	Z	-22.157	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	4.63	5
2	MP3A	Z	-2.673	5
3	MP3A	Mx	-0.002	5
4	MP3A	X	4.63	5
5	MP3A	Z	-2.673	5
6	MP3A	Mx	.002	5
7	MP4A	X	9.86	2
8	MP4A	Z	-5.693	2
9	MP4A	Mx	-0.005	2
10	MP4A	X	9.86	4
11	MP4A	Z	-5.693	4
12	MP4A	Mx	-0.005	4
13	MP2A	X	3.214	2
14	MP2A	Z	-1.856	2
15	MP2A	Mx	.000524	2
16	MP2A	X	11.438	2
17	MP2A	Z	-6.604	2
18	MP2A	Mx	.011	2
19	MP3A	X	10.22	2
20	MP3A	Z	-5.901	2
21	MP3A	Mx	.005	2
22	MP2A	X	24.179	.5
23	MP2A	Z	-13.96	.5
24	MP2A	Mx	-0.004	.5
25	MP2A	X	24.179	5.5
26	MP2A	Z	-13.96	5.5
27	MP2A	Mx	-0.004	5.5
28	MP2A	X	24.179	.5
29	MP2A	Z	-13.96	.5
30	MP2A	Mx	-.02	.5
31	MP2A	X	24.179	5.5
32	MP2A	Z	-13.96	5.5
33	MP2A	Mx	-.02	5.5
34	MP1A	X	30.546	.5
35	MP1A	Z	-17.636	.5
36	MP1A	Mx	-0.015	.5
37	MP1A	X	30.546	4.5
38	MP1A	Z	-17.636	4.5
39	MP1A	Mx	-0.015	4.5
40	MP5A	X	30.546	.5
41	MP5A	Z	-17.636	.5
42	MP5A	Mx	-0.015	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP5A	X	30.546	4.5
44	MP5A	Z	-17.636	4.5
45	MP5A	Mx	-.015	4.5
46	OVP	X	19.556	.5
47	OVP	Z	-11.291	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	3.939	5
2	MP3A	Z	0	5
3	MP3A	Mx	-.001	5
4	MP3A	X	3.939	5
5	MP3A	Z	0	5
6	MP3A	Mx	.001	5
7	MP4A	X	8.66	2
8	MP4A	Z	0	2
9	MP4A	Mx	-.004	2
10	MP4A	X	8.66	4
11	MP4A	Z	0	4
12	MP4A	Mx	-.004	4
13	MP2A	X	3.456	2
14	MP2A	Z	0	2
15	MP2A	Mx	.002	2
16	MP2A	X	11.974	2
17	MP2A	Z	0	2
18	MP2A	Mx	.006	2
19	MP3A	X	10.099	2
20	MP3A	Z	0	2
21	MP3A	Mx	.005	2
22	MP2A	X	25.116	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.013	.5
25	MP2A	X	25.116	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.013	5.5
28	MP2A	X	25.116	.5
29	MP2A	Z	0	.5
30	MP2A	Mx	-.013	.5
31	MP2A	X	25.116	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	-.013	5.5
34	MP1A	X	34.343	.5
35	MP1A	Z	0	.5
36	MP1A	Mx	-.017	.5
37	MP1A	X	34.343	4.5
38	MP1A	Z	0	4.5
39	MP1A	Mx	-.017	4.5
40	MP5A	X	34.343	.5
41	MP5A	Z	0	.5
42	MP5A	Mx	-.017	.5
43	MP5A	X	34.343	4.5
44	MP5A	Z	0	4.5
45	MP5A	Mx	-.017	4.5
46	OVP	X	18.896	.5
47	OVP	Z	0	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	4.63	5
2	MP3A	Z	2.673	5
3	MP3A	Mx	-.002	5
4	MP3A	X	4.63	5
5	MP3A	Z	2.673	5
6	MP3A	Mx	.002	5
7	MP4A	X	9.86	2
8	MP4A	Z	5.693	2
9	MP4A	Mx	-.005	2
10	MP4A	X	9.86	4
11	MP4A	Z	5.693	4
12	MP4A	Mx	-.005	4
13	MP2A	X	3.214	2
14	MP2A	Z	1.856	2
15	MP2A	Mx	.003	2
16	MP2A	X	11.438	2
17	MP2A	Z	6.604	2
18	MP2A	Mx	.000766	2
19	MP3A	X	10.22	2
20	MP3A	Z	5.901	2
21	MP3A	Mx	.005	2
22	MP2A	X	24.179	.5
23	MP2A	Z	13.96	.5
24	MP2A	Mx	-.02	.5
25	MP2A	X	24.179	5.5
26	MP2A	Z	13.96	5.5
27	MP2A	Mx	-.02	5.5
28	MP2A	X	24.179	.5
29	MP2A	Z	13.96	.5
30	MP2A	Mx	-.004	.5
31	MP2A	X	24.179	5.5
32	MP2A	Z	13.96	5.5
33	MP2A	Mx	-.004	5.5
34	MP1A	X	30.546	.5
35	MP1A	Z	17.636	.5
36	MP1A	Mx	-.015	.5
37	MP1A	X	30.546	4.5
38	MP1A	Z	17.636	4.5
39	MP1A	Mx	-.015	4.5
40	MP5A	X	30.546	.5
41	MP5A	Z	17.636	.5
42	MP5A	Mx	-.015	.5
43	MP5A	X	30.546	4.5
44	MP5A	Z	17.636	4.5
45	MP5A	Mx	-.015	4.5
46	OVP	X	15.775	.5
47	OVP	Z	9.108	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	4.081	5
2	MP3A	Z	7.068	5
3	MP3A	Mx	-.001	5
4	MP3A	X	4.081	5
5	MP3A	Z	7.068	5
6	MP3A	Mx	.001	5
7	MP4A	X	8.417	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
8	MP4A	Z	14.579	2
9	MP4A	Mx	-0.04	2
10	MP4A	X	8.417	4
11	MP4A	Z	14.579	4
12	MP4A	Mx	-0.04	4
13	MP2A	X	2.111	2
14	MP2A	Z	3.657	2
15	MP2A	Mx	.003	2
16	MP2A	X	7.838	2
17	MP2A	Z	13.575	2
18	MP2A	Mx	-0.06	2
19	MP3A	X	7.603	2
20	MP3A	Z	13.169	2
21	MP3A	Mx	.004	2
22	MP2A	X	16.763	.5
23	MP2A	Z	29.035	.5
24	MP2A	Mx	-.025	.5
25	MP2A	X	16.763	5.5
26	MP2A	Z	29.035	5.5
27	MP2A	Mx	-.025	5.5
28	MP2A	X	16.763	.5
29	MP2A	Z	29.035	.5
30	MP2A	Mx	.009	.5
31	MP2A	X	16.763	5.5
32	MP2A	Z	29.035	5.5
33	MP2A	Mx	.009	5.5
34	MP1A	X	18.565	.5
35	MP1A	Z	32.155	.5
36	MP1A	Mx	-.009	.5
37	MP1A	X	18.565	4.5
38	MP1A	Z	32.155	4.5
39	MP1A	Mx	-.009	4.5
40	MP5A	X	18.565	.5
41	MP5A	Z	32.155	.5
42	MP5A	Mx	-.009	.5
43	MP5A	X	18.565	4.5
44	MP5A	Z	32.155	4.5
45	MP5A	Mx	-.009	4.5
46	OVP	X	10.61	.5
47	OVP	Z	18.376	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	5
2	MP3A	Z	9.569	5
3	MP3A	Mx	0	5
4	MP3A	X	0	5
5	MP3A	Z	9.569	5
6	MP3A	Mx	0	5
7	MP4A	X	0	2
8	MP4A	Z	19.56	2
9	MP4A	Mx	0	2
10	MP4A	X	0	4
11	MP4A	Z	19.56	4
12	MP4A	Mx	0	4
13	MP2A	X	0	2
14	MP2A	Z	4.478	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2A	Mx	.003	2
16	MP2A	X	0	2
17	MP2A	Z	16.909	2
18	MP2A	Mx	-.013	2
19	MP3A	X	0	2
20	MP3A	Z	16.909	2
21	MP3A	Mx	0	2
22	MP2A	X	0	.5
23	MP2A	Z	36.33	.5
24	MP2A	Mx	-.021	.5
25	MP2A	X	0	5.5
26	MP2A	Z	36.33	5.5
27	MP2A	Mx	-.021	5.5
28	MP2A	X	0	.5
29	MP2A	Z	36.33	.5
30	MP2A	Mx	.021	.5
31	MP2A	X	0	5.5
32	MP2A	Z	36.33	5.5
33	MP2A	Mx	.021	5.5
34	MP1A	X	0	.5
35	MP1A	Z	38.058	.5
36	MP1A	Mx	0	.5
37	MP1A	X	0	4.5
38	MP1A	Z	38.058	4.5
39	MP1A	Mx	0	4.5
40	MP5A	X	0	.5
41	MP5A	Z	38.058	.5
42	MP5A	Mx	0	.5
43	MP5A	X	0	4.5
44	MP5A	Z	38.058	4.5
45	MP5A	Mx	0	4.5
46	OVP	X	0	.5
47	OVP	Z	24.904	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-4.081	5
2	MP3A	Z	7.068	5
3	MP3A	Mx	.001	5
4	MP3A	X	-4.081	5
5	MP3A	Z	7.068	5
6	MP3A	Mx	-.001	5
7	MP4A	X	-8.417	2
8	MP4A	Z	14.579	2
9	MP4A	Mx	.004	2
10	MP4A	X	-8.417	4
11	MP4A	Z	14.579	4
12	MP4A	Mx	.004	4
13	MP2A	X	-2.111	2
14	MP2A	Z	3.657	2
15	MP2A	Mx	.001	2
16	MP2A	X	-7.838	2
17	MP2A	Z	13.575	2
18	MP2A	Mx	-.014	2
19	MP3A	X	-7.603	2
20	MP3A	Z	13.169	2
21	MP3A	Mx	-.004	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
22	MP2A	X	-16.763	.5
23	MP2A	Z	29.035	.5
24	MP2A	Mx	-.009	.5
25	MP2A	X	-16.763	5.5
26	MP2A	Z	29.035	5.5
27	MP2A	Mx	-.009	5.5
28	MP2A	X	-16.763	.5
29	MP2A	Z	29.035	.5
30	MP2A	Mx	.025	.5
31	MP2A	X	-16.763	5.5
32	MP2A	Z	29.035	5.5
33	MP2A	Mx	.025	5.5
34	MP1A	X	-18.565	.5
35	MP1A	Z	32.155	.5
36	MP1A	Mx	.009	.5
37	MP1A	X	-18.565	4.5
38	MP1A	Z	32.155	4.5
39	MP1A	Mx	.009	4.5
40	MP5A	X	-18.565	.5
41	MP5A	Z	32.155	.5
42	MP5A	Mx	.009	.5
43	MP5A	X	-18.565	4.5
44	MP5A	Z	32.155	4.5
45	MP5A	Mx	.009	4.5
46	OVP	X	-12.792	.5
47	OVP	Z	22.157	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-4.63	5
2	MP3A	Z	2.673	5
3	MP3A	Mx	.002	5
4	MP3A	X	-4.63	5
5	MP3A	Z	2.673	5
6	MP3A	Mx	-.002	5
7	MP4A	X	-9.86	2
8	MP4A	Z	5.693	2
9	MP4A	Mx	.005	2
10	MP4A	X	-9.86	4
11	MP4A	Z	5.693	4
12	MP4A	Mx	.005	4
13	MP2A	X	-3.214	2
14	MP2A	Z	1.856	2
15	MP2A	Mx	-.000524	2
16	MP2A	X	-11.438	2
17	MP2A	Z	6.604	2
18	MP2A	Mx	-.011	2
19	MP3A	X	-10.22	2
20	MP3A	Z	5.901	2
21	MP3A	Mx	-.005	2
22	MP2A	X	-24.179	.5
23	MP2A	Z	13.96	.5
24	MP2A	Mx	.004	.5
25	MP2A	X	-24.179	5.5
26	MP2A	Z	13.96	5.5
27	MP2A	Mx	.004	5.5
28	MP2A	X	-24.179	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP2A	Z	13.96	.5
30	MP2A	Mx	.02	.5
31	MP2A	X	-24.179	5.5
32	MP2A	Z	13.96	5.5
33	MP2A	Mx	.02	5.5
34	MP1A	X	-30.546	.5
35	MP1A	Z	17.636	.5
36	MP1A	Mx	.015	.5
37	MP1A	X	-30.546	4.5
38	MP1A	Z	17.636	4.5
39	MP1A	Mx	.015	4.5
40	MP5A	X	-30.546	.5
41	MP5A	Z	17.636	.5
42	MP5A	Mx	.015	.5
43	MP5A	X	-30.546	4.5
44	MP5A	Z	17.636	4.5
45	MP5A	Mx	.015	4.5
46	OVP	X	-19.556	.5
47	OVP	Z	11.291	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-3.939	5
2	MP3A	Z	0	5
3	MP3A	Mx	.001	5
4	MP3A	X	-3.939	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.001	5
7	MP4A	X	-8.66	2
8	MP4A	Z	0	2
9	MP4A	Mx	.004	2
10	MP4A	X	-8.66	4
11	MP4A	Z	0	4
12	MP4A	Mx	.004	4
13	MP2A	X	-3.456	2
14	MP2A	Z	0	2
15	MP2A	Mx	-.002	2
16	MP2A	X	-11.974	2
17	MP2A	Z	0	2
18	MP2A	Mx	-.006	2
19	MP3A	X	-10.099	2
20	MP3A	Z	0	2
21	MP3A	Mx	-.005	2
22	MP2A	X	-25.116	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.013	.5
25	MP2A	X	-25.116	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.013	5.5
28	MP2A	X	-25.116	.5
29	MP2A	Z	0	.5
30	MP2A	Mx	.013	.5
31	MP2A	X	-25.116	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	.013	5.5
34	MP1A	X	-34.343	.5
35	MP1A	Z	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
36	MP1A	Mx	.017	.5
37	MP1A	X	-34.343	4.5
38	MP1A	Z	0	4.5
39	MP1A	Mx	.017	4.5
40	MP5A	X	-34.343	.5
41	MP5A	Z	0	.5
42	MP5A	Mx	.017	.5
43	MP5A	X	-34.343	4.5
44	MP5A	Z	0	4.5
45	MP5A	Mx	.017	4.5
46	OVP	X	-18.896	.5
47	OVP	Z	0	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-4.63	5
2	MP3A	Z	-2.673	5
3	MP3A	Mx	.002	5
4	MP3A	X	-4.63	5
5	MP3A	Z	-2.673	5
6	MP3A	Mx	-.002	5
7	MP4A	X	-9.86	2
8	MP4A	Z	-5.693	2
9	MP4A	Mx	.005	2
10	MP4A	X	-9.86	4
11	MP4A	Z	-5.693	4
12	MP4A	Mx	.005	4
13	MP2A	X	-3.214	2
14	MP2A	Z	-1.856	2
15	MP2A	Mx	-.003	2
16	MP2A	X	-11.438	2
17	MP2A	Z	-6.604	2
18	MP2A	Mx	-.000766	2
19	MP3A	X	-10.22	2
20	MP3A	Z	-5.901	2
21	MP3A	Mx	-.005	2
22	MP2A	X	-24.179	.5
23	MP2A	Z	-13.96	.5
24	MP2A	Mx	.02	.5
25	MP2A	X	-24.179	5.5
26	MP2A	Z	-13.96	5.5
27	MP2A	Mx	.02	5.5
28	MP2A	X	-24.179	.5
29	MP2A	Z	-13.96	.5
30	MP2A	Mx	.004	.5
31	MP2A	X	-24.179	5.5
32	MP2A	Z	-13.96	5.5
33	MP2A	Mx	.004	5.5
34	MP1A	X	-30.546	.5
35	MP1A	Z	-17.636	.5
36	MP1A	Mx	.015	.5
37	MP1A	X	-30.546	4.5
38	MP1A	Z	-17.636	4.5
39	MP1A	Mx	.015	4.5
40	MP5A	X	-30.546	.5
41	MP5A	Z	-17.636	.5
42	MP5A	Mx	.015	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP5A	X	-30.546	4.5
44	MP5A	Z	-17.636	4.5
45	MP5A	Mx	.015	4.5
46	OVP	X	-15.775	.5
47	OVP	Z	-9.108	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-4.081	5
2	MP3A	Z	-7.068	5
3	MP3A	Mx	.001	5
4	MP3A	X	-4.081	5
5	MP3A	Z	-7.068	5
6	MP3A	Mx	-.001	5
7	MP4A	X	-8.417	2
8	MP4A	Z	-14.579	2
9	MP4A	Mx	.004	2
10	MP4A	X	-8.417	4
11	MP4A	Z	-14.579	4
12	MP4A	Mx	.004	4
13	MP2A	X	-2.111	2
14	MP2A	Z	-3.657	2
15	MP2A	Mx	-.003	2
16	MP2A	X	-7.838	2
17	MP2A	Z	-13.575	2
18	MP2A	Mx	.006	2
19	MP3A	X	-7.603	2
20	MP3A	Z	-13.169	2
21	MP3A	Mx	-.004	2
22	MP2A	X	-16.763	.5
23	MP2A	Z	-29.035	.5
24	MP2A	Mx	.025	.5
25	MP2A	X	-16.763	5.5
26	MP2A	Z	-29.035	5.5
27	MP2A	Mx	.025	5.5
28	MP2A	X	-16.763	.5
29	MP2A	Z	-29.035	.5
30	MP2A	Mx	-.009	.5
31	MP2A	X	-16.763	5.5
32	MP2A	Z	-29.035	5.5
33	MP2A	Mx	-.009	5.5
34	MP1A	X	-18.565	.5
35	MP1A	Z	-32.155	.5
36	MP1A	Mx	.009	.5
37	MP1A	X	-18.565	4.5
38	MP1A	Z	-32.155	4.5
39	MP1A	Mx	.009	4.5
40	MP5A	X	-18.565	.5
41	MP5A	Z	-32.155	.5
42	MP5A	Mx	.009	.5
43	MP5A	X	-18.565	4.5
44	MP5A	Z	-32.155	4.5
45	MP5A	Mx	.009	4.5
46	OVP	X	-10.61	.5
47	OVP	Z	-18.376	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	5
2	MP3A	Z	-2.412	5
3	MP3A	Mx	0	5
4	MP3A	X	0	5
5	MP3A	Z	-2.412	5
6	MP3A	Mx	0	5
7	MP4A	X	0	2
8	MP4A	Z	-4.925	2
9	MP4A	Mx	0	2
10	MP4A	X	0	4
11	MP4A	Z	-4.925	4
12	MP4A	Mx	0	4
13	MP2A	X	0	2
14	MP2A	Z	-.93	2
15	MP2A	Mx	-.000542	2
16	MP2A	X	0	2
17	MP2A	Z	-3.895	2
18	MP2A	Mx	.003	2
19	MP3A	X	0	2
20	MP3A	Z	-3.895	2
21	MP3A	Mx	0	2
22	MP2A	X	0	.5
23	MP2A	Z	-11.446	.5
24	MP2A	Mx	.007	.5
25	MP2A	X	0	5.5
26	MP2A	Z	-11.446	5.5
27	MP2A	Mx	.007	5.5
28	MP2A	X	0	.5
29	MP2A	Z	-11.446	.5
30	MP2A	Mx	-.007	.5
31	MP2A	X	0	5.5
32	MP2A	Z	-11.446	5.5
33	MP2A	Mx	-.007	5.5
34	MP1A	X	0	.5
35	MP1A	Z	-12.061	.5
36	MP1A	Mx	0	.5
37	MP1A	X	0	4.5
38	MP1A	Z	-12.061	4.5
39	MP1A	Mx	0	4.5
40	MP5A	X	0	.5
41	MP5A	Z	-12.061	.5
42	MP5A	Mx	0	.5
43	MP5A	X	0	4.5
44	MP5A	Z	-12.061	4.5
45	MP5A	Mx	0	4.5
46	OVP	X	0	.5
47	OVP	Z	-7.742	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	.996	5
2	MP3A	Z	-1.725	5
3	MP3A	Mx	-.000332	5
4	MP3A	X	.996	5
5	MP3A	Z	-1.725	5
6	MP3A	Mx	.000332	5
7	MP4A	X	2.059	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
8	MP4A	Z	-3.566	2
9	MP4A	Mx	-0.01	2
10	MP4A	X	2.059	4
11	MP4A	Z	-3.566	4
12	MP4A	Mx	-0.01	4
13	MP2A	X	.429	2
14	MP2A	Z	-.743	2
15	MP2A	Mx	-.000219	2
16	MP2A	X	1.787	2
17	MP2A	Z	-3.096	2
18	MP2A	Mx	.003	2
19	MP3A	X	1.728	2
20	MP3A	Z	-2.992	2
21	MP3A	Mx	.000864	2
22	MP2A	X	5.232	.5
23	MP2A	Z	-9.062	.5
24	MP2A	Mx	.003	.5
25	MP2A	X	5.232	5.5
26	MP2A	Z	-9.062	5.5
27	MP2A	Mx	.003	5.5
28	MP2A	X	5.232	.5
29	MP2A	Z	-9.062	.5
30	MP2A	Mx	-.008	.5
31	MP2A	X	5.232	5.5
32	MP2A	Z	-9.062	5.5
33	MP2A	Mx	-.008	5.5
34	MP1A	X	5.87	.5
35	MP1A	Z	-10.167	.5
36	MP1A	Mx	-.003	.5
37	MP1A	X	5.87	4.5
38	MP1A	Z	-10.167	4.5
39	MP1A	Mx	-.003	4.5
40	MP5A	X	5.87	.5
41	MP5A	Z	-10.167	.5
42	MP5A	Mx	-.003	.5
43	MP5A	X	5.87	4.5
44	MP5A	Z	-10.167	4.5
45	MP5A	Mx	-.003	4.5
46	OVP	X	3.954	.5
47	OVP	Z	-6.849	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	.998	5
2	MP3A	Z	-.576	5
3	MP3A	Mx	-.000333	5
4	MP3A	X	.998	5
5	MP3A	Z	-.576	5
6	MP3A	Mx	.000333	5
7	MP4A	X	2.168	2
8	MP4A	Z	-1.252	2
9	MP4A	Mx	-.001	2
10	MP4A	X	2.168	4
11	MP4A	Z	-1.252	4
12	MP4A	Mx	-.001	4
13	MP2A	X	.619	2
14	MP2A	Z	-.357	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2A	Mx	.000101	2
16	MP2A	X	2.541	2
17	MP2A	Z	-1.467	2
18	MP2A	Mx	.002	2
19	MP3A	X	2.231	2
20	MP3A	Z	-1.288	2
21	MP3A	Mx	.001	2
22	MP2A	X	7.361	.5
23	MP2A	Z	-4.25	.5
24	MP2A	Mx	-.001	.5
25	MP2A	X	7.361	5.5
26	MP2A	Z	-4.25	5.5
27	MP2A	Mx	-.001	5.5
28	MP2A	X	7.361	.5
29	MP2A	Z	-4.25	.5
30	MP2A	Mx	-.006	.5
31	MP2A	X	7.361	5.5
32	MP2A	Z	-4.25	5.5
33	MP2A	Mx	-.006	5.5
34	MP1A	X	9.609	.5
35	MP1A	Z	-5.548	.5
36	MP1A	Mx	-.005	.5
37	MP1A	X	9.609	4.5
38	MP1A	Z	-5.548	4.5
39	MP1A	Mx	-.005	4.5
40	MP5A	X	9.609	.5
41	MP5A	Z	-5.548	.5
42	MP5A	Mx	-.005	.5
43	MP5A	X	9.609	4.5
44	MP5A	Z	-5.548	4.5
45	MP5A	Mx	-.005	4.5
46	OVP	X	6.215	.5
47	OVP	Z	-3.588	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	.732	5
2	MP3A	Z	0	5
3	MP3A	Mx	-.000244	5
4	MP3A	X	.732	5
5	MP3A	Z	0	5
6	MP3A	Mx	.000244	5
7	MP4A	X	1.696	2
8	MP4A	Z	0	2
9	MP4A	Mx	-.000848	2
10	MP4A	X	1.696	4
11	MP4A	Z	0	4
12	MP4A	Mx	-.000848	4
13	MP2A	X	.643	2
14	MP2A	Z	0	2
15	MP2A	Mx	.000322	2
16	MP2A	X	2.613	2
17	MP2A	Z	0	2
18	MP2A	Mx	.001	2
19	MP3A	X	2.136	2
20	MP3A	Z	0	2
21	MP3A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
22	MP2A	X	7.517	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.004	.5
25	MP2A	X	7.517	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.004	5.5
28	MP2A	X	7.517	.5
29	MP2A	Z	0	.5
30	MP2A	Mx	-.004	.5
31	MP2A	X	7.517	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	-.004	5.5
34	MP1A	X	10.773	.5
35	MP1A	Z	0	.5
36	MP1A	Mx	-.005	.5
37	MP1A	X	10.773	4.5
38	MP1A	Z	0	4.5
39	MP1A	Mx	-.005	4.5
40	MP5A	X	10.773	.5
41	MP5A	Z	0	.5
42	MP5A	Mx	-.005	.5
43	MP5A	X	10.773	4.5
44	MP5A	Z	0	4.5
45	MP5A	Mx	-.005	4.5
46	OVP	X	6.279	.5
47	OVP	Z	0	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	.998	5
2	MP3A	Z	.576	5
3	MP3A	Mx	-.000333	5
4	MP3A	X	.998	5
5	MP3A	Z	.576	5
6	MP3A	Mx	.000333	5
7	MP4A	X	2.168	2
8	MP4A	Z	1.252	2
9	MP4A	Mx	-.001	2
10	MP4A	X	2.168	4
11	MP4A	Z	1.252	4
12	MP4A	Mx	-.001	4
13	MP2A	X	.619	2
14	MP2A	Z	.357	2
15	MP2A	Mx	.000518	2
16	MP2A	X	2.541	2
17	MP2A	Z	1.467	2
18	MP2A	Mx	.00017	2
19	MP3A	X	2.231	2
20	MP3A	Z	1.288	2
21	MP3A	Mx	.001	2
22	MP2A	X	7.361	.5
23	MP2A	Z	4.25	.5
24	MP2A	Mx	-.006	.5
25	MP2A	X	7.361	5.5
26	MP2A	Z	4.25	5.5
27	MP2A	Mx	-.006	5.5
28	MP2A	X	7.361	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
29	MP2A	Z	4.25	.5
30	MP2A	Mx	-.001	.5
31	MP2A	X	7.361	5.5
32	MP2A	Z	4.25	5.5
33	MP2A	Mx	-.001	5.5
34	MP1A	X	9.609	.5
35	MP1A	Z	5.548	.5
36	MP1A	Mx	-.005	.5
37	MP1A	X	9.609	4.5
38	MP1A	Z	5.548	4.5
39	MP1A	Mx	-.005	4.5
40	MP5A	X	9.609	.5
41	MP5A	Z	5.548	.5
42	MP5A	Mx	-.005	.5
43	MP5A	X	9.609	4.5
44	MP5A	Z	5.548	4.5
45	MP5A	Mx	-.005	4.5
46	OVP	X	5.294	.5
47	OVP	Z	3.057	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	.996	5
2	MP3A	Z	1.725	5
3	MP3A	Mx	-.000332	5
4	MP3A	X	.996	5
5	MP3A	Z	1.725	5
6	MP3A	Mx	.000332	5
7	MP4A	X	2.059	2
8	MP4A	Z	3.566	2
9	MP4A	Mx	-.001	2
10	MP4A	X	2.059	4
11	MP4A	Z	3.566	4
12	MP4A	Mx	-.001	4
13	MP2A	X	.429	2
14	MP2A	Z	.743	2
15	MP2A	Mx	.000648	2
16	MP2A	X	1.787	2
17	MP2A	Z	3.096	2
18	MP2A	Mx	-.001	2
19	MP3A	X	1.728	2
20	MP3A	Z	2.992	2
21	MP3A	Mx	.000864	2
22	MP2A	X	5.232	.5
23	MP2A	Z	9.062	.5
24	MP2A	Mx	-.008	.5
25	MP2A	X	5.232	5.5
26	MP2A	Z	9.062	5.5
27	MP2A	Mx	-.008	5.5
28	MP2A	X	5.232	.5
29	MP2A	Z	9.062	.5
30	MP2A	Mx	.003	.5
31	MP2A	X	5.232	5.5
32	MP2A	Z	9.062	5.5
33	MP2A	Mx	.003	5.5
34	MP1A	X	5.87	.5
35	MP1A	Z	10.167	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
36	MP1A	Mx	-0.003	.5
37	MP1A	X	5.87	4.5
38	MP1A	Z	10.167	4.5
39	MP1A	Mx	-0.003	4.5
40	MP5A	X	5.87	.5
41	MP5A	Z	10.167	.5
42	MP5A	Mx	-0.003	.5
43	MP5A	X	5.87	4.5
44	MP5A	Z	10.167	4.5
45	MP5A	Mx	-0.003	4.5
46	OVP	X	3.422	.5
47	OVP	Z	5.928	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	5
2	MP3A	Z	2.412	5
3	MP3A	Mx	0	5
4	MP3A	X	0	5
5	MP3A	Z	2.412	5
6	MP3A	Mx	0	5
7	MP4A	X	0	2
8	MP4A	Z	4.925	2
9	MP4A	Mx	0	2
10	MP4A	X	0	4
11	MP4A	Z	4.925	4
12	MP4A	Mx	0	4
13	MP2A	X	0	2
14	MP2A	Z	.93	2
15	MP2A	Mx	.000542	2
16	MP2A	X	0	2
17	MP2A	Z	3.895	2
18	MP2A	Mx	-0.003	2
19	MP3A	X	0	2
20	MP3A	Z	3.895	2
21	MP3A	Mx	0	2
22	MP2A	X	0	.5
23	MP2A	Z	11.446	.5
24	MP2A	Mx	-0.007	.5
25	MP2A	X	0	5.5
26	MP2A	Z	11.446	5.5
27	MP2A	Mx	-0.007	5.5
28	MP2A	X	0	.5
29	MP2A	Z	11.446	.5
30	MP2A	Mx	.007	.5
31	MP2A	X	0	5.5
32	MP2A	Z	11.446	5.5
33	MP2A	Mx	.007	5.5
34	MP1A	X	0	.5
35	MP1A	Z	12.061	.5
36	MP1A	Mx	0	.5
37	MP1A	X	0	4.5
38	MP1A	Z	12.061	4.5
39	MP1A	Mx	0	4.5
40	MP5A	X	0	.5
41	MP5A	Z	12.061	.5
42	MP5A	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
43	MP5A	X	0	4.5
44	MP5A	Z	12.061	4.5
45	MP5A	Mx	0	4.5
46	OVP	X	0	.5
47	OVP	Z	7.742	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	- .996	5
2	MP3A	Z	1.725	5
3	MP3A	Mx	.000332	5
4	MP3A	X	- .996	5
5	MP3A	Z	1.725	5
6	MP3A	Mx	- .000332	5
7	MP4A	X	-2.059	2
8	MP4A	Z	3.566	2
9	MP4A	Mx	.001	2
10	MP4A	X	-2.059	4
11	MP4A	Z	3.566	4
12	MP4A	Mx	.001	4
13	MP2A	X	- .429	2
14	MP2A	Z	.743	2
15	MP2A	Mx	.000219	2
16	MP2A	X	-1.787	2
17	MP2A	Z	3.096	2
18	MP2A	Mx	- .003	2
19	MP3A	X	-1.728	2
20	MP3A	Z	2.992	2
21	MP3A	Mx	- .000864	2
22	MP2A	X	-5.232	.5
23	MP2A	Z	9.062	.5
24	MP2A	Mx	- .003	.5
25	MP2A	X	-5.232	5.5
26	MP2A	Z	9.062	5.5
27	MP2A	Mx	- .003	5.5
28	MP2A	X	-5.232	.5
29	MP2A	Z	9.062	.5
30	MP2A	Mx	.008	.5
31	MP2A	X	-5.232	5.5
32	MP2A	Z	9.062	5.5
33	MP2A	Mx	.008	5.5
34	MP1A	X	-5.87	.5
35	MP1A	Z	10.167	.5
36	MP1A	Mx	.003	.5
37	MP1A	X	-5.87	4.5
38	MP1A	Z	10.167	4.5
39	MP1A	Mx	.003	4.5
40	MP5A	X	-5.87	.5
41	MP5A	Z	10.167	.5
42	MP5A	Mx	.003	.5
43	MP5A	X	-5.87	4.5
44	MP5A	Z	10.167	4.5
45	MP5A	Mx	.003	4.5
46	OVP	X	-3.954	.5
47	OVP	Z	6.849	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-.998	5
2	MP3A	Z	.576	5
3	MP3A	Mx	.000333	5
4	MP3A	X	-.998	5
5	MP3A	Z	.576	5
6	MP3A	Mx	-.000333	5
7	MP4A	X	-2.168	2
8	MP4A	Z	1.252	2
9	MP4A	Mx	.001	2
10	MP4A	X	-2.168	4
11	MP4A	Z	1.252	4
12	MP4A	Mx	.001	4
13	MP2A	X	-.619	2
14	MP2A	Z	.357	2
15	MP2A	Mx	-.000101	2
16	MP2A	X	-2.541	2
17	MP2A	Z	1.467	2
18	MP2A	Mx	-.002	2
19	MP3A	X	-2.231	2
20	MP3A	Z	1.288	2
21	MP3A	Mx	-.001	2
22	MP2A	X	-7.361	.5
23	MP2A	Z	4.25	.5
24	MP2A	Mx	.001	.5
25	MP2A	X	-7.361	5.5
26	MP2A	Z	4.25	5.5
27	MP2A	Mx	.001	5.5
28	MP2A	X	-7.361	.5
29	MP2A	Z	4.25	.5
30	MP2A	Mx	.006	.5
31	MP2A	X	-7.361	5.5
32	MP2A	Z	4.25	5.5
33	MP2A	Mx	.006	5.5
34	MP1A	X	-9.609	.5
35	MP1A	Z	5.548	.5
36	MP1A	Mx	.005	.5
37	MP1A	X	-9.609	4.5
38	MP1A	Z	5.548	4.5
39	MP1A	Mx	.005	4.5
40	MP5A	X	-9.609	.5
41	MP5A	Z	5.548	.5
42	MP5A	Mx	.005	.5
43	MP5A	X	-9.609	4.5
44	MP5A	Z	5.548	4.5
45	MP5A	Mx	.005	4.5
46	OVP	X	-6.215	.5
47	OVP	Z	3.588	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-.732	5
2	MP3A	Z	0	5
3	MP3A	Mx	.000244	5
4	MP3A	X	-.732	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.000244	5
7	MP4A	X	-1.696	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
8	MP4A	Z	0	2
9	MP4A	Mx	.000848	2
10	MP4A	X	-1.696	4
11	MP4A	Z	0	4
12	MP4A	Mx	.000848	4
13	MP2A	X	-.643	2
14	MP2A	Z	0	2
15	MP2A	Mx	-.000322	2
16	MP2A	X	-2.613	2
17	MP2A	Z	0	2
18	MP2A	Mx	-.001	2
19	MP3A	X	-2.136	2
20	MP3A	Z	0	2
21	MP3A	Mx	-.001	2
22	MP2A	X	-7.517	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.004	.5
25	MP2A	X	-7.517	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.004	5.5
28	MP2A	X	-7.517	.5
29	MP2A	Z	0	.5
30	MP2A	Mx	.004	.5
31	MP2A	X	-7.517	5.5
32	MP2A	Z	0	5.5
33	MP2A	Mx	.004	5.5
34	MP1A	X	-10.773	.5
35	MP1A	Z	0	.5
36	MP1A	Mx	.005	.5
37	MP1A	X	-10.773	4.5
38	MP1A	Z	0	4.5
39	MP1A	Mx	.005	4.5
40	MP5A	X	-10.773	.5
41	MP5A	Z	0	.5
42	MP5A	Mx	.005	.5
43	MP5A	X	-10.773	4.5
44	MP5A	Z	0	4.5
45	MP5A	Mx	.005	4.5
46	OVP	X	-6.279	.5
47	OVP	Z	0	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-.998	5
2	MP3A	Z	-.576	5
3	MP3A	Mx	.000333	5
4	MP3A	X	-.998	5
5	MP3A	Z	-.576	5
6	MP3A	Mx	-.000333	5
7	MP4A	X	-2.168	2
8	MP4A	Z	-1.252	2
9	MP4A	Mx	.001	2
10	MP4A	X	-2.168	4
11	MP4A	Z	-1.252	4
12	MP4A	Mx	.001	4
13	MP2A	X	-.619	2
14	MP2A	Z	-.357	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP2A	Mx	-.000518	2
16	MP2A	X	-2.541	2
17	MP2A	Z	-1.467	2
18	MP2A	Mx	-.00017	2
19	MP3A	X	-2.231	2
20	MP3A	Z	-1.288	2
21	MP3A	Mx	-.001	2
22	MP2A	X	-7.361	.5
23	MP2A	Z	-4.25	.5
24	MP2A	Mx	.006	.5
25	MP2A	X	-7.361	5.5
26	MP2A	Z	-4.25	5.5
27	MP2A	Mx	.006	5.5
28	MP2A	X	-7.361	.5
29	MP2A	Z	-4.25	.5
30	MP2A	Mx	.001	.5
31	MP2A	X	-7.361	5.5
32	MP2A	Z	-4.25	5.5
33	MP2A	Mx	.001	5.5
34	MP1A	X	-9.609	.5
35	MP1A	Z	-5.548	.5
36	MP1A	Mx	.005	.5
37	MP1A	X	-9.609	4.5
38	MP1A	Z	-5.548	4.5
39	MP1A	Mx	.005	4.5
40	MP5A	X	-9.609	.5
41	MP5A	Z	-5.548	.5
42	MP5A	Mx	.005	.5
43	MP5A	X	-9.609	4.5
44	MP5A	Z	-5.548	4.5
45	MP5A	Mx	.005	4.5
46	OVP	X	-5.294	.5
47	OVP	Z	-3.057	.5
48	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-.996	5
2	MP3A	Z	-1.725	5
3	MP3A	Mx	.000332	5
4	MP3A	X	-.996	5
5	MP3A	Z	-1.725	5
6	MP3A	Mx	-.000332	5
7	MP4A	X	-2.059	2
8	MP4A	Z	-3.566	2
9	MP4A	Mx	.001	2
10	MP4A	X	-2.059	4
11	MP4A	Z	-3.566	4
12	MP4A	Mx	.001	4
13	MP2A	X	-.429	2
14	MP2A	Z	-.743	2
15	MP2A	Mx	-.000648	2
16	MP2A	X	-1.787	2
17	MP2A	Z	-3.096	2
18	MP2A	Mx	.001	2
19	MP3A	X	-1.728	2
20	MP3A	Z	-2.992	2
21	MP3A	Mx	-.000864	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
22	MP2A	X	-5.232	.5
23	MP2A	Z	-9.062	.5
24	MP2A	Mx	.008	.5
25	MP2A	X	-5.232	5.5
26	MP2A	Z	-9.062	5.5
27	MP2A	Mx	.008	5.5
28	MP2A	X	-5.232	.5
29	MP2A	Z	-9.062	.5
30	MP2A	Mx	-.003	.5
31	MP2A	X	-5.232	5.5
32	MP2A	Z	-9.062	5.5
33	MP2A	Mx	-.003	5.5
34	MP1A	X	-5.87	.5
35	MP1A	Z	-10.167	.5
36	MP1A	Mx	.003	.5
37	MP1A	X	-5.87	4.5
38	MP1A	Z	-10.167	4.5
39	MP1A	Mx	.003	4.5
40	MP5A	X	-5.87	.5
41	MP5A	Z	-10.167	.5
42	MP5A	Mx	.003	.5
43	MP5A	X	-5.87	4.5
44	MP5A	Z	-10.167	4.5
45	MP5A	Mx	.003	4.5
46	OVP	X	-3.422	.5
47	OVP	Z	-5.928	.5
48	OVP	Mx	0	.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	LIVE1	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	M21	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

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

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Y	-.683	5
2	MP3A	My	-.000228	5
3	MP3A	Mz	0	5
4	MP3A	Y	-.683	5
5	MP3A	My	.000228	5
6	MP3A	Mz	0	5
7	MP4A	Y	-1.691	2
8	MP4A	My	-.000845	2
9	MP4A	Mz	0	2
10	MP4A	Y	-1.691	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
11	MP4A	My	-0.00845	4
12	MP4A	Mz	0	4
13	MP2A	Y	-0.404	2
14	MP2A	My	.000202	2
15	MP2A	Mz	.000236	2
16	MP2A	Y	-3.277	2
17	MP2A	My	.002	2
18	MP2A	Mz	-.002	2
19	MP3A	Y	-2.73	2
20	MP3A	My	.001	2
21	MP3A	Mz	0	2
22	MP2A	Y	-1.229	.5
23	MP2A	My	-.000614	.5
24	MP2A	Mz	-.000717	.5
25	MP2A	Y	-1.229	5.5
26	MP2A	My	-.000614	5.5
27	MP2A	Mz	-.000717	5.5
28	MP2A	Y	-1.229	.5
29	MP2A	My	-.000614	.5
30	MP2A	Mz	.000717	.5
31	MP2A	Y	-1.229	5.5
32	MP2A	My	-.000614	5.5
33	MP2A	Mz	.000717	5.5
34	MP1A	Y	-.524	.5
35	MP1A	My	-.000262	.5
36	MP1A	Mz	0	.5
37	MP1A	Y	-.524	4.5
38	MP1A	My	-.000262	4.5
39	MP1A	Mz	0	4.5
40	MP5A	Y	-.524	.5
41	MP5A	My	-.000262	.5
42	MP5A	Mz	0	.5
43	MP5A	Y	-.524	4.5
44	MP5A	My	-.000262	4.5
45	MP5A	Mz	0	4.5
46	OVP	Y	-1.242	.5
47	OVP	My	0	.5
48	OVP	Mz	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Z	-1.708	5
2	MP3A	Mx	0	5
3	MP3A	Z	-1.708	5
4	MP3A	Mx	0	5
5	MP4A	Z	-4.227	2
6	MP4A	Mx	0	2
7	MP4A	Z	-4.227	4
8	MP4A	Mx	0	4
9	MP2A	Z	-1.009	2
10	MP2A	Mx	-.000589	2
11	MP2A	Z	-8.192	2
12	MP2A	Mx	.006	2
13	MP3A	Z	-6.824	2
14	MP3A	Mx	0	2
15	MP2A	Z	-3.072	.5
16	MP2A	Mx	.002	.5
17	MP2A	Z	-3.072	5.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
18	MP2A	Mx	.002	5.5
19	MP2A	Z	-3.072	.5
20	MP2A	Mx	-.002	.5
21	MP2A	Z	-3.072	5.5
22	MP2A	Mx	-.002	5.5
23	MP1A	Z	-1.31	.5
24	MP1A	Mx	0	.5
25	MP1A	Z	-1.31	4.5
26	MP1A	Mx	0	4.5
27	MP5A	Z	-1.31	.5
28	MP5A	Mx	0	.5
29	MP5A	Z	-1.31	4.5
30	MP5A	Mx	0	4.5
31	OVP	Z	-3.106	.5
32	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	1.708	5
2	MP3A	Mx	-.000569	5
3	MP3A	X	1.708	5
4	MP3A	Mx	.000569	5
5	MP4A	X	4.227	2
6	MP4A	Mx	-.002	2
7	MP4A	X	4.227	4
8	MP4A	Mx	-.002	4
9	MP2A	X	1.009	2
10	MP2A	Mx	.000505	2
11	MP2A	X	8.192	2
12	MP2A	Mx	.004	2
13	MP3A	X	6.824	2
14	MP3A	Mx	.003	2
15	MP2A	X	3.072	.5
16	MP2A	Mx	-.002	.5
17	MP2A	X	3.072	5.5
18	MP2A	Mx	-.002	5.5
19	MP2A	X	3.072	.5
20	MP2A	Mx	-.002	.5
21	MP2A	X	3.072	5.5
22	MP2A	Mx	-.002	5.5
23	MP1A	X	1.31	.5
24	MP1A	Mx	-.000655	.5
25	MP1A	X	1.31	4.5
26	MP1A	Mx	-.000655	4.5
27	MP5A	X	1.31	.5
28	MP5A	Mx	-.000655	.5
29	MP5A	X	1.31	4.5
30	MP5A	Mx	-.000655	4.5
31	OVP	X	3.106	.5
32	OVP	Mx	0	.5

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft....]	End Magnitude[lb/ft....]	Start Location[ft. %]	End Location[ft. %]
1	M1	Y	-15.139	-15.139	0	%100
2	M2	Y	-10.693	-10.693	0	%100
3	FACE	Y	-10.693	-10.693	0	%100
4	MP1A	Y	-8.374	-8.374	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
5	MP2A	Y	-8.374	-8.374	0	%100
6	MP3A	Y	-8.374	-8.374	0	%100
7	MP4A	Y	-8.374	-8.374	0	%100
8	MP5A	Y	-8.374	-8.374	0	%100
9	OVP	Y	-8.374	-8.374	0	%100
10	M25A	Y	-10.693	-10.693	0	%100
11	M31	Y	-12.224	-12.224	0	%100
12	M25B	Y	-10.693	-10.693	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-8.847	-8.847	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	-13.883	-13.883	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-9.549	-9.549	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-9.549	-9.549	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-9.549	-9.549	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	-9.549	-9.549	0	%100
15	MP5A	X	0	0	0	%100
16	MP5A	Z	-9.549	-9.549	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	-8.478	-8.478	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	-13.883	-13.883	0	%100
21	M31	X	0	0	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	0	0	0	%100
24	M25B	Z	-3.848	-3.848	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.768	1.768	0	%100
2	M1	Z	-3.063	-3.063	0	%100
3	M2	X	4.424	4.424	0	%100
4	M2	Z	-7.662	-7.662	0	%100
5	FACE	X	5.206	5.206	0	%100
6	FACE	Z	-9.017	-9.017	0	%100
7	MP1A	X	4.774	4.774	0	%100
8	MP1A	Z	-8.269	-8.269	0	%100
9	MP2A	X	4.774	4.774	0	%100
10	MP2A	Z	-8.269	-8.269	0	%100
11	MP3A	X	4.774	4.774	0	%100
12	MP3A	Z	-8.269	-8.269	0	%100
13	MP4A	X	4.774	4.774	0	%100
14	MP4A	Z	-8.269	-8.269	0	%100
15	MP5A	X	4.774	4.774	0	%100
16	MP5A	Z	-8.269	-8.269	0	%100
17	OVP	X	4.239	4.239	0	%100
18	OVP	Z	-7.342	-7.342	0	%100
19	M25A	X	5.206	5.206	0	%100
20	M25A	Z	-9.017	-9.017	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
21	M31	X	1.448	1.448	0	%100
22	M31	Z	-2.509	-2.509	0	%100
23	M25B	X	2.987	2.987	0	%100
24	M25B	Z	-5.173	-5.173	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	9.188	9.188	0	%100
2	M1	Z	-5.305	-5.305	0	%100
3	M2	X	7.662	7.662	0	%100
4	M2	Z	-4.424	-4.424	0	%100
5	FACE	X	3.006	3.006	0	%100
6	FACE	Z	-1.735	-1.735	0	%100
7	MP1A	X	8.269	8.269	0	%100
8	MP1A	Z	-4.774	-4.774	0	%100
9	MP2A	X	8.269	8.269	0	%100
10	MP2A	Z	-4.774	-4.774	0	%100
11	MP3A	X	8.269	8.269	0	%100
12	MP3A	Z	-4.774	-4.774	0	%100
13	MP4A	X	8.269	8.269	0	%100
14	MP4A	Z	-4.774	-4.774	0	%100
15	MP5A	X	8.269	8.269	0	%100
16	MP5A	Z	-4.774	-4.774	0	%100
17	OVP	X	7.342	7.342	0	%100
18	OVP	Z	-4.239	-4.239	0	%100
19	M25A	X	3.006	3.006	0	%100
20	M25A	Z	-1.735	-1.735	0	%100
21	M31	X	7.526	7.526	0	%100
22	M31	Z	-4.345	-4.345	0	%100
23	M25B	X	8.855	8.855	0	%100
24	M25B	Z	-5.112	-5.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	14.146	14.146	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	8.847	8.847	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	MP1A	X	9.549	9.549	0	%100
8	MP1A	Z	0	0	0	%100
9	MP2A	X	9.549	9.549	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	9.549	9.549	0	%100
12	MP3A	Z	0	0	0	%100
13	MP4A	X	9.549	9.549	0	%100
14	MP4A	Z	0	0	0	%100
15	MP5A	X	9.549	9.549	0	%100
16	MP5A	Z	0	0	0	%100
17	OVP	X	8.478	8.478	0	%100
18	OVP	Z	0	0	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	0	0	0	%100
21	M31	X	11.587	11.587	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	12.35	12.35	0	%100
24	M25B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	9.188	9.188	0	%100
2	M1	Z	5.305	5.305	0	%100
3	M2	X	7.662	7.662	0	%100
4	M2	Z	4.424	4.424	0	%100
5	FACE	X	3.006	3.006	0	%100
6	FACE	Z	1.735	1.735	0	%100
7	MP1A	X	8.269	8.269	0	%100
8	MP1A	Z	4.774	4.774	0	%100
9	MP2A	X	8.269	8.269	0	%100
10	MP2A	Z	4.774	4.774	0	%100
11	MP3A	X	8.269	8.269	0	%100
12	MP3A	Z	4.774	4.774	0	%100
13	MP4A	X	8.269	8.269	0	%100
14	MP4A	Z	4.774	4.774	0	%100
15	MP5A	X	8.269	8.269	0	%100
16	MP5A	Z	4.774	4.774	0	%100
17	OVP	X	7.342	7.342	0	%100
18	OVP	Z	4.239	4.239	0	%100
19	M25A	X	3.006	3.006	0	%100
20	M25A	Z	1.735	1.735	0	%100
21	M31	X	7.526	7.526	0	%100
22	M31	Z	4.345	4.345	0	%100
23	M25B	X	8.855	8.855	0	%100
24	M25B	Z	5.112	5.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.768	1.768	0	%100
2	M1	Z	3.063	3.063	0	%100
3	M2	X	4.424	4.424	0	%100
4	M2	Z	7.662	7.662	0	%100
5	FACE	X	5.206	5.206	0	%100
6	FACE	Z	9.017	9.017	0	%100
7	MP1A	X	4.774	4.774	0	%100
8	MP1A	Z	8.269	8.269	0	%100
9	MP2A	X	4.774	4.774	0	%100
10	MP2A	Z	8.269	8.269	0	%100
11	MP3A	X	4.774	4.774	0	%100
12	MP3A	Z	8.269	8.269	0	%100
13	MP4A	X	4.774	4.774	0	%100
14	MP4A	Z	8.269	8.269	0	%100
15	MP5A	X	4.774	4.774	0	%100
16	MP5A	Z	8.269	8.269	0	%100
17	OVP	X	4.239	4.239	0	%100
18	OVP	Z	7.342	7.342	0	%100
19	M25A	X	5.206	5.206	0	%100
20	M25A	Z	9.017	9.017	0	%100
21	M31	X	1.448	1.448	0	%100
22	M31	Z	2.509	2.509	0	%100
23	M25B	X	2.987	2.987	0	%100
24	M25B	Z	5.173	5.173	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	8.847	8.847	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
5	FACE	X	0	0	0	%100
6	FACE	Z	13.883	13.883	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	9.549	9.549	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	9.549	9.549	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	9.549	9.549	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	9.549	9.549	0	%100
15	MP5A	X	0	0	0	%100
16	MP5A	Z	9.549	9.549	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	8.478	8.478	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	13.883	13.883	0	%100
21	M31	X	0	0	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	0	0	0	%100
24	M25B	Z	3.848	3.848	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.768	-1.768	0	%100
2	M1	Z	3.063	3.063	0	%100
3	M2	X	-4.424	-4.424	0	%100
4	M2	Z	7.662	7.662	0	%100
5	FACE	X	-5.206	-5.206	0	%100
6	FACE	Z	9.017	9.017	0	%100
7	MP1A	X	-4.774	-4.774	0	%100
8	MP1A	Z	8.269	8.269	0	%100
9	MP2A	X	-4.774	-4.774	0	%100
10	MP2A	Z	8.269	8.269	0	%100
11	MP3A	X	-4.774	-4.774	0	%100
12	MP3A	Z	8.269	8.269	0	%100
13	MP4A	X	-4.774	-4.774	0	%100
14	MP4A	Z	8.269	8.269	0	%100
15	MP5A	X	-4.774	-4.774	0	%100
16	MP5A	Z	8.269	8.269	0	%100
17	OVP	X	-4.239	-4.239	0	%100
18	OVP	Z	7.342	7.342	0	%100
19	M25A	X	-5.206	-5.206	0	%100
20	M25A	Z	9.017	9.017	0	%100
21	M31	X	-1.448	-1.448	0	%100
22	M31	Z	2.509	2.509	0	%100
23	M25B	X	-2.987	-2.987	0	%100
24	M25B	Z	5.173	5.173	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-9.188	-9.188	0	%100
2	M1	Z	5.305	5.305	0	%100
3	M2	X	-7.662	-7.662	0	%100
4	M2	Z	4.424	4.424	0	%100
5	FACE	X	-3.006	-3.006	0	%100
6	FACE	Z	1.735	1.735	0	%100
7	MP1A	X	-8.269	-8.269	0	%100
8	MP1A	Z	4.774	4.774	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
9	MP2A	X	-8.269	-8.269	0	%100
10	MP2A	Z	4.774	4.774	0	%100
11	MP3A	X	-8.269	-8.269	0	%100
12	MP3A	Z	4.774	4.774	0	%100
13	MP4A	X	-8.269	-8.269	0	%100
14	MP4A	Z	4.774	4.774	0	%100
15	MP5A	X	-8.269	-8.269	0	%100
16	MP5A	Z	4.774	4.774	0	%100
17	OVP	X	-7.342	-7.342	0	%100
18	OVP	Z	4.239	4.239	0	%100
19	M25A	X	-3.006	-3.006	0	%100
20	M25A	Z	1.735	1.735	0	%100
21	M31	X	-7.526	-7.526	0	%100
22	M31	Z	4.345	4.345	0	%100
23	M25B	X	-8.855	-8.855	0	%100
24	M25B	Z	5.112	5.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-14.146	-14.146	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-8.847	-8.847	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	MP1A	X	-9.549	-9.549	0	%100
8	MP1A	Z	0	0	0	%100
9	MP2A	X	-9.549	-9.549	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	-9.549	-9.549	0	%100
12	MP3A	Z	0	0	0	%100
13	MP4A	X	-9.549	-9.549	0	%100
14	MP4A	Z	0	0	0	%100
15	MP5A	X	-9.549	-9.549	0	%100
16	MP5A	Z	0	0	0	%100
17	OVP	X	-8.478	-8.478	0	%100
18	OVP	Z	0	0	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	0	0	0	%100
21	M31	X	-11.587	-11.587	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	-12.35	-12.35	0	%100
24	M25B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-9.188	-9.188	0	%100
2	M1	Z	-5.305	-5.305	0	%100
3	M2	X	-7.662	-7.662	0	%100
4	M2	Z	-4.424	-4.424	0	%100
5	FACE	X	-3.006	-3.006	0	%100
6	FACE	Z	-1.735	-1.735	0	%100
7	MP1A	X	-8.269	-8.269	0	%100
8	MP1A	Z	-4.774	-4.774	0	%100
9	MP2A	X	-8.269	-8.269	0	%100
10	MP2A	Z	-4.774	-4.774	0	%100
11	MP3A	X	-8.269	-8.269	0	%100
12	MP3A	Z	-4.774	-4.774	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%,]	End Location[ft.%,]
13	MP4A	X	-8.269	-8.269	0	%100
14	MP4A	Z	-4.774	-4.774	0	%100
15	MP5A	X	-8.269	-8.269	0	%100
16	MP5A	Z	-4.774	-4.774	0	%100
17	OVP	X	-7.342	-7.342	0	%100
18	OVP	Z	-4.239	-4.239	0	%100
19	M25A	X	-3.006	-3.006	0	%100
20	M25A	Z	-1.735	-1.735	0	%100
21	M31	X	-7.526	-7.526	0	%100
22	M31	Z	-4.345	-4.345	0	%100
23	M25B	X	-8.855	-8.855	0	%100
24	M25B	Z	-5.112	-5.112	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	-1.768	-1.768	0	%100
2	M1	Z	-3.063	-3.063	0	%100
3	M2	X	-4.424	-4.424	0	%100
4	M2	Z	-7.662	-7.662	0	%100
5	FACE	X	-5.206	-5.206	0	%100
6	FACE	Z	-9.017	-9.017	0	%100
7	MP1A	X	-4.774	-4.774	0	%100
8	MP1A	Z	-8.269	-8.269	0	%100
9	MP2A	X	-4.774	-4.774	0	%100
10	MP2A	Z	-8.269	-8.269	0	%100
11	MP3A	X	-4.774	-4.774	0	%100
12	MP3A	Z	-8.269	-8.269	0	%100
13	MP4A	X	-4.774	-4.774	0	%100
14	MP4A	Z	-8.269	-8.269	0	%100
15	MP5A	X	-4.774	-4.774	0	%100
16	MP5A	Z	-8.269	-8.269	0	%100
17	OVP	X	-4.239	-4.239	0	%100
18	OVP	Z	-7.342	-7.342	0	%100
19	M25A	X	-5.206	-5.206	0	%100
20	M25A	Z	-9.017	-9.017	0	%100
21	M31	X	-1.448	-1.448	0	%100
22	M31	Z	-2.509	-2.509	0	%100
23	M25B	X	-2.987	-2.987	0	%100
24	M25B	Z	-5.173	-5.173	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%,]	End Location[ft.%,]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.042	-3.042	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	-4.798	-4.798	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-4.008	-4.008	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-4.008	-4.008	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-4.008	-4.008	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	-4.008	-4.008	0	%100
15	MP5A	X	0	0	0	%100
16	MP5A	Z	-4.008	-4.008	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
17	OVP	X	0	0	0	%100
18	OVP	Z	-3.319	-3.319	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	-4.798	-4.798	0	%100
21	M31	X	0	0	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	0	0	0	%100
24	M25B	Z	-1.337	-1.337	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.562	.562	0	%100
2	M1	Z	-.974	-.974	0	%100
3	M2	X	1.521	1.521	0	%100
4	M2	Z	-2.635	-2.635	0	%100
5	FACE	X	1.799	1.799	0	%100
6	FACE	Z	-3.117	-3.117	0	%100
7	MP1A	X	2.004	2.004	0	%100
8	MP1A	Z	-3.471	-3.471	0	%100
9	MP2A	X	2.004	2.004	0	%100
10	MP2A	Z	-3.471	-3.471	0	%100
11	MP3A	X	2.004	2.004	0	%100
12	MP3A	Z	-3.471	-3.471	0	%100
13	MP4A	X	2.004	2.004	0	%100
14	MP4A	Z	-3.471	-3.471	0	%100
15	MP5A	X	2.004	2.004	0	%100
16	MP5A	Z	-3.471	-3.471	0	%100
17	OVP	X	1.659	1.659	0	%100
18	OVP	Z	-2.874	-2.874	0	%100
19	M25A	X	1.799	1.799	0	%100
20	M25A	Z	-3.117	-3.117	0	%100
21	M31	X	.507	.507	0	%100
22	M31	Z	-.877	-.877	0	%100
23	M25B	X	1.038	1.038	0	%100
24	M25B	Z	-1.797	-1.797	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	2.921	2.921	0	%100
2	M1	Z	-1.686	-1.686	0	%100
3	M2	X	2.635	2.635	0	%100
4	M2	Z	-1.521	-1.521	0	%100
5	FACE	X	1.039	1.039	0	%100
6	FACE	Z	-.6	-.6	0	%100
7	MP1A	X	3.471	3.471	0	%100
8	MP1A	Z	-2.004	-2.004	0	%100
9	MP2A	X	3.471	3.471	0	%100
10	MP2A	Z	-2.004	-2.004	0	%100
11	MP3A	X	3.471	3.471	0	%100
12	MP3A	Z	-2.004	-2.004	0	%100
13	MP4A	X	3.471	3.471	0	%100
14	MP4A	Z	-2.004	-2.004	0	%100
15	MP5A	X	3.471	3.471	0	%100
16	MP5A	Z	-2.004	-2.004	0	%100
17	OVP	X	2.874	2.874	0	%100
18	OVP	Z	-1.659	-1.659	0	%100
19	M25A	X	1.039	1.039	0	%100
20	M25A	Z	-.6	-.6	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
21	M31	X	2.632	2.632	0	%100
22	M31	Z	-1.52	-1.52	0	%100
23	M25B	X	3.076	3.076	0	%100
24	M25B	Z	-1.776	-1.776	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	4.496	4.496	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.042	3.042	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	MP1A	X	4.008	4.008	0	%100
8	MP1A	Z	0	0	0	%100
9	MP2A	X	4.008	4.008	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	4.008	4.008	0	%100
12	MP3A	Z	0	0	0	%100
13	MP4A	X	4.008	4.008	0	%100
14	MP4A	Z	0	0	0	%100
15	MP5A	X	4.008	4.008	0	%100
16	MP5A	Z	0	0	0	%100
17	OVP	X	3.319	3.319	0	%100
18	OVP	Z	0	0	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	0	0	0	%100
21	M31	X	4.052	4.052	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	4.291	4.291	0	%100
24	M25B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.921	2.921	0	%100
2	M1	Z	1.686	1.686	0	%100
3	M2	X	2.635	2.635	0	%100
4	M2	Z	1.521	1.521	0	%100
5	FACE	X	1.039	1.039	0	%100
6	FACE	Z	.6	.6	0	%100
7	MP1A	X	3.471	3.471	0	%100
8	MP1A	Z	2.004	2.004	0	%100
9	MP2A	X	3.471	3.471	0	%100
10	MP2A	Z	2.004	2.004	0	%100
11	MP3A	X	3.471	3.471	0	%100
12	MP3A	Z	2.004	2.004	0	%100
13	MP4A	X	3.471	3.471	0	%100
14	MP4A	Z	2.004	2.004	0	%100
15	MP5A	X	3.471	3.471	0	%100
16	MP5A	Z	2.004	2.004	0	%100
17	OVP	X	2.874	2.874	0	%100
18	OVP	Z	1.659	1.659	0	%100
19	M25A	X	1.039	1.039	0	%100
20	M25A	Z	.6	.6	0	%100
21	M31	X	2.632	2.632	0	%100
22	M31	Z	1.52	1.52	0	%100
23	M25B	X	3.076	3.076	0	%100
24	M25B	Z	1.776	1.776	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.562	.562	0	%100
2	M1	Z	.974	.974	0	%100
3	M2	X	1.521	1.521	0	%100
4	M2	Z	2.635	2.635	0	%100
5	FACE	X	1.799	1.799	0	%100
6	FACE	Z	3.117	3.117	0	%100
7	MP1A	X	2.004	2.004	0	%100
8	MP1A	Z	3.471	3.471	0	%100
9	MP2A	X	2.004	2.004	0	%100
10	MP2A	Z	3.471	3.471	0	%100
11	MP3A	X	2.004	2.004	0	%100
12	MP3A	Z	3.471	3.471	0	%100
13	MP4A	X	2.004	2.004	0	%100
14	MP4A	Z	3.471	3.471	0	%100
15	MP5A	X	2.004	2.004	0	%100
16	MP5A	Z	3.471	3.471	0	%100
17	OVP	X	1.659	1.659	0	%100
18	OVP	Z	2.874	2.874	0	%100
19	M25A	X	1.799	1.799	0	%100
20	M25A	Z	3.117	3.117	0	%100
21	M31	X	.507	.507	0	%100
22	M31	Z	.877	.877	0	%100
23	M25B	X	1.038	1.038	0	%100
24	M25B	Z	1.797	1.797	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.042	3.042	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	4.798	4.798	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	4.008	4.008	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	4.008	4.008	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	4.008	4.008	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	4.008	4.008	0	%100
15	MP5A	X	0	0	0	%100
16	MP5A	Z	4.008	4.008	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	3.319	3.319	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	4.798	4.798	0	%100
21	M31	X	0	0	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	0	0	0	%100
24	M25B	Z	1.337	1.337	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.562	-.562	0	%100
2	M1	Z	.974	.974	0	%100
3	M2	X	-1.521	-1.521	0	%100
4	M2	Z	2.635	2.635	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
5	FACE	X	-1.799	-1.799	0	%100
6	FACE	Z	3.117	3.117	0	%100
7	MP1A	X	-2.004	-2.004	0	%100
8	MP1A	Z	3.471	3.471	0	%100
9	MP2A	X	-2.004	-2.004	0	%100
10	MP2A	Z	3.471	3.471	0	%100
11	MP3A	X	-2.004	-2.004	0	%100
12	MP3A	Z	3.471	3.471	0	%100
13	MP4A	X	-2.004	-2.004	0	%100
14	MP4A	Z	3.471	3.471	0	%100
15	MP5A	X	-2.004	-2.004	0	%100
16	MP5A	Z	3.471	3.471	0	%100
17	OVP	X	-1.659	-1.659	0	%100
18	OVP	Z	2.874	2.874	0	%100
19	M25A	X	-1.799	-1.799	0	%100
20	M25A	Z	3.117	3.117	0	%100
21	M31	X	-.507	-.507	0	%100
22	M31	Z	.877	.877	0	%100
23	M25B	X	-1.038	-1.038	0	%100
24	M25B	Z	1.797	1.797	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.921	-2.921	0	%100
2	M1	Z	1.686	1.686	0	%100
3	M2	X	-2.635	-2.635	0	%100
4	M2	Z	1.521	1.521	0	%100
5	FACE	X	-1.039	-1.039	0	%100
6	FACE	Z	.6	.6	0	%100
7	MP1A	X	-3.471	-3.471	0	%100
8	MP1A	Z	2.004	2.004	0	%100
9	MP2A	X	-3.471	-3.471	0	%100
10	MP2A	Z	2.004	2.004	0	%100
11	MP3A	X	-3.471	-3.471	0	%100
12	MP3A	Z	2.004	2.004	0	%100
13	MP4A	X	-3.471	-3.471	0	%100
14	MP4A	Z	2.004	2.004	0	%100
15	MP5A	X	-3.471	-3.471	0	%100
16	MP5A	Z	2.004	2.004	0	%100
17	OVP	X	-2.874	-2.874	0	%100
18	OVP	Z	1.659	1.659	0	%100
19	M25A	X	-1.039	-1.039	0	%100
20	M25A	Z	.6	.6	0	%100
21	M31	X	-2.632	-2.632	0	%100
22	M31	Z	1.52	1.52	0	%100
23	M25B	X	-3.076	-3.076	0	%100
24	M25B	Z	1.776	1.776	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-4.496	-4.496	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.042	-3.042	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	MP1A	X	-4.008	-4.008	0	%100
8	MP1A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
9	MP2A	X	-4.008	-4.008	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	-4.008	-4.008	0	%100
12	MP3A	Z	0	0	0	%100
13	MP4A	X	-4.008	-4.008	0	%100
14	MP4A	Z	0	0	0	%100
15	MP5A	X	-4.008	-4.008	0	%100
16	MP5A	Z	0	0	0	%100
17	OVP	X	-3.319	-3.319	0	%100
18	OVP	Z	0	0	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	0	0	0	%100
21	M31	X	-4.052	-4.052	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	-4.291	-4.291	0	%100
24	M25B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-2.921	-2.921	0	%100
2	M1	Z	-1.686	-1.686	0	%100
3	M2	X	-2.635	-2.635	0	%100
4	M2	Z	-1.521	-1.521	0	%100
5	FACE	X	-1.039	-1.039	0	%100
6	FACE	Z	-.6	-.6	0	%100
7	MP1A	X	-3.471	-3.471	0	%100
8	MP1A	Z	-2.004	-2.004	0	%100
9	MP2A	X	-3.471	-3.471	0	%100
10	MP2A	Z	-2.004	-2.004	0	%100
11	MP3A	X	-3.471	-3.471	0	%100
12	MP3A	Z	-2.004	-2.004	0	%100
13	MP4A	X	-3.471	-3.471	0	%100
14	MP4A	Z	-2.004	-2.004	0	%100
15	MP5A	X	-3.471	-3.471	0	%100
16	MP5A	Z	-2.004	-2.004	0	%100
17	OVP	X	-2.874	-2.874	0	%100
18	OVP	Z	-1.659	-1.659	0	%100
19	M25A	X	-1.039	-1.039	0	%100
20	M25A	Z	-.6	-.6	0	%100
21	M31	X	-2.632	-2.632	0	%100
22	M31	Z	-1.52	-1.52	0	%100
23	M25B	X	-3.076	-3.076	0	%100
24	M25B	Z	-1.776	-1.776	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.562	-.562	0	%100
2	M1	Z	-.974	-.974	0	%100
3	M2	X	-1.521	-1.521	0	%100
4	M2	Z	-2.635	-2.635	0	%100
5	FACE	X	-1.799	-1.799	0	%100
6	FACE	Z	-3.117	-3.117	0	%100
7	MP1A	X	-2.004	-2.004	0	%100
8	MP1A	Z	-3.471	-3.471	0	%100
9	MP2A	X	-2.004	-2.004	0	%100
10	MP2A	Z	-3.471	-3.471	0	%100
11	MP3A	X	-2.004	-2.004	0	%100
12	MP3A	Z	-3.471	-3.471	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
13	MP4A	X	-2.004	-2.004	0	%100
14	MP4A	Z	-3.471	-3.471	0	%100
15	MP5A	X	-2.004	-2.004	0	%100
16	MP5A	Z	-3.471	-3.471	0	%100
17	OVP	X	-1.659	-1.659	0	%100
18	OVP	Z	-2.874	-2.874	0	%100
19	M25A	X	-1.799	-1.799	0	%100
20	M25A	Z	-3.117	-3.117	0	%100
21	M31	X	-.507	-.507	0	%100
22	M31	Z	-.877	-.877	0	%100
23	M25B	X	-1.038	-1.038	0	%100
24	M25B	Z	-1.797	-1.797	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.553	-.553	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	-.868	-.868	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-.597	-.597	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	-.597	-.597	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	-.597	-.597	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	-.597	-.597	0	%100
15	MP5A	X	0	0	0	%100
16	MP5A	Z	-.597	-.597	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	-.53	-.53	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	-.868	-.868	0	%100
21	M31	X	0	0	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	0	0	0	%100
24	M25B	Z	-.24	-.24	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.111	.111	0	%100
2	M1	Z	-.191	-.191	0	%100
3	M2	X	.276	.276	0	%100
4	M2	Z	-.479	-.479	0	%100
5	FACE	X	.325	.325	0	%100
6	FACE	Z	-.564	-.564	0	%100
7	MP1A	X	.298	.298	0	%100
8	MP1A	Z	-.517	-.517	0	%100
9	MP2A	X	.298	.298	0	%100
10	MP2A	Z	-.517	-.517	0	%100
11	MP3A	X	.298	.298	0	%100
12	MP3A	Z	-.517	-.517	0	%100
13	MP4A	X	.298	.298	0	%100
14	MP4A	Z	-.517	-.517	0	%100
15	MP5A	X	.298	.298	0	%100
16	MP5A	Z	-.517	-.517	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
17	OVP	X	.265	.265	0	%100
18	OVP	Z	-.459	-.459	0	%100
19	M25A	X	.325	.325	0	%100
20	M25A	Z	-.564	-.564	0	%100
21	M31	X	.091	.091	0	%100
22	M31	Z	-.157	-.157	0	%100
23	M25B	X	.187	.187	0	%100
24	M25B	Z	-.323	-.323	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.574	.574	0	%100
2	M1	Z	-.332	-.332	0	%100
3	M2	X	.479	.479	0	%100
4	M2	Z	-.276	-.276	0	%100
5	FACE	X	.188	.188	0	%100
6	FACE	Z	-.108	-.108	0	%100
7	MP1A	X	.517	.517	0	%100
8	MP1A	Z	-.298	-.298	0	%100
9	MP2A	X	.517	.517	0	%100
10	MP2A	Z	-.298	-.298	0	%100
11	MP3A	X	.517	.517	0	%100
12	MP3A	Z	-.298	-.298	0	%100
13	MP4A	X	.517	.517	0	%100
14	MP4A	Z	-.298	-.298	0	%100
15	MP5A	X	.517	.517	0	%100
16	MP5A	Z	-.298	-.298	0	%100
17	OVP	X	.459	.459	0	%100
18	OVP	Z	-.265	-.265	0	%100
19	M25A	X	.188	.188	0	%100
20	M25A	Z	-.108	-.108	0	%100
21	M31	X	.47	.47	0	%100
22	M31	Z	-.272	-.272	0	%100
23	M25B	X	.553	.553	0	%100
24	M25B	Z	-.32	-.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	.884	.884	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.553	.553	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	MP1A	X	.597	.597	0	%100
8	MP1A	Z	0	0	0	%100
9	MP2A	X	.597	.597	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	.597	.597	0	%100
12	MP3A	Z	0	0	0	%100
13	MP4A	X	.597	.597	0	%100
14	MP4A	Z	0	0	0	%100
15	MP5A	X	.597	.597	0	%100
16	MP5A	Z	0	0	0	%100
17	OVP	X	.53	.53	0	%100
18	OVP	Z	0	0	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
21	M31	X	.724	.724	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	.772	.772	0	%100
24	M25B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.574	.574	0	%100
2	M1	Z	.332	.332	0	%100
3	M2	X	.479	.479	0	%100
4	M2	Z	.276	.276	0	%100
5	FACE	X	.188	.188	0	%100
6	FACE	Z	.108	.108	0	%100
7	MP1A	X	.517	.517	0	%100
8	MP1A	Z	.298	.298	0	%100
9	MP2A	X	.517	.517	0	%100
10	MP2A	Z	.298	.298	0	%100
11	MP3A	X	.517	.517	0	%100
12	MP3A	Z	.298	.298	0	%100
13	MP4A	X	.517	.517	0	%100
14	MP4A	Z	.298	.298	0	%100
15	MP5A	X	.517	.517	0	%100
16	MP5A	Z	.298	.298	0	%100
17	OVP	X	.459	.459	0	%100
18	OVP	Z	.265	.265	0	%100
19	M25A	X	.188	.188	0	%100
20	M25A	Z	.108	.108	0	%100
21	M31	X	.47	.47	0	%100
22	M31	Z	.272	.272	0	%100
23	M25B	X	.553	.553	0	%100
24	M25B	Z	.32	.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.111	.111	0	%100
2	M1	Z	.191	.191	0	%100
3	M2	X	.276	.276	0	%100
4	M2	Z	.479	.479	0	%100
5	FACE	X	.325	.325	0	%100
6	FACE	Z	.564	.564	0	%100
7	MP1A	X	.298	.298	0	%100
8	MP1A	Z	.517	.517	0	%100
9	MP2A	X	.298	.298	0	%100
10	MP2A	Z	.517	.517	0	%100
11	MP3A	X	.298	.298	0	%100
12	MP3A	Z	.517	.517	0	%100
13	MP4A	X	.298	.298	0	%100
14	MP4A	Z	.517	.517	0	%100
15	MP5A	X	.298	.298	0	%100
16	MP5A	Z	.517	.517	0	%100
17	OVP	X	.265	.265	0	%100
18	OVP	Z	.459	.459	0	%100
19	M25A	X	.325	.325	0	%100
20	M25A	Z	.564	.564	0	%100
21	M31	X	.091	.091	0	%100
22	M31	Z	.157	.157	0	%100
23	M25B	X	.187	.187	0	%100
24	M25B	Z	.323	.323	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.553	.553	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	.868	.868	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	.597	.597	0	%100
9	MP2A	X	0	0	0	%100
10	MP2A	Z	.597	.597	0	%100
11	MP3A	X	0	0	0	%100
12	MP3A	Z	.597	.597	0	%100
13	MP4A	X	0	0	0	%100
14	MP4A	Z	.597	.597	0	%100
15	MP5A	X	0	0	0	%100
16	MP5A	Z	.597	.597	0	%100
17	OVP	X	0	0	0	%100
18	OVP	Z	.53	.53	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	.868	.868	0	%100
21	M31	X	0	0	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	0	0	0	%100
24	M25B	Z	.24	.24	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.111	-.111	0	%100
2	M1	Z	.191	.191	0	%100
3	M2	X	-.276	-.276	0	%100
4	M2	Z	.479	.479	0	%100
5	FACE	X	-.325	-.325	0	%100
6	FACE	Z	.564	.564	0	%100
7	MP1A	X	-.298	-.298	0	%100
8	MP1A	Z	.517	.517	0	%100
9	MP2A	X	-.298	-.298	0	%100
10	MP2A	Z	.517	.517	0	%100
11	MP3A	X	-.298	-.298	0	%100
12	MP3A	Z	.517	.517	0	%100
13	MP4A	X	-.298	-.298	0	%100
14	MP4A	Z	.517	.517	0	%100
15	MP5A	X	-.298	-.298	0	%100
16	MP5A	Z	.517	.517	0	%100
17	OVP	X	-.265	-.265	0	%100
18	OVP	Z	.459	.459	0	%100
19	M25A	X	-.325	-.325	0	%100
20	M25A	Z	.564	.564	0	%100
21	M31	X	-.091	-.091	0	%100
22	M31	Z	.157	.157	0	%100
23	M25B	X	-.187	-.187	0	%100
24	M25B	Z	.323	.323	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.574	-.574	0	%100
2	M1	Z	.332	.332	0	%100
3	M2	X	-.479	-.479	0	%100
4	M2	Z	.276	.276	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
5	FACE	X	-.188	-.188	0	%100
6	FACE	Z	.108	.108	0	%100
7	MP1A	X	-.517	-.517	0	%100
8	MP1A	Z	.298	.298	0	%100
9	MP2A	X	-.517	-.517	0	%100
10	MP2A	Z	.298	.298	0	%100
11	MP3A	X	-.517	-.517	0	%100
12	MP3A	Z	.298	.298	0	%100
13	MP4A	X	-.517	-.517	0	%100
14	MP4A	Z	.298	.298	0	%100
15	MP5A	X	-.517	-.517	0	%100
16	MP5A	Z	.298	.298	0	%100
17	OVP	X	-.459	-.459	0	%100
18	OVP	Z	.265	.265	0	%100
19	M25A	X	-.188	-.188	0	%100
20	M25A	Z	.108	.108	0	%100
21	M31	X	-.47	-.47	0	%100
22	M31	Z	.272	.272	0	%100
23	M25B	X	-.553	-.553	0	%100
24	M25B	Z	.32	.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.884	-.884	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.553	-.553	0	%100
4	M2	Z	0	0	0	%100
5	FACE	X	0	0	0	%100
6	FACE	Z	0	0	0	%100
7	MP1A	X	-.597	-.597	0	%100
8	MP1A	Z	0	0	0	%100
9	MP2A	X	-.597	-.597	0	%100
10	MP2A	Z	0	0	0	%100
11	MP3A	X	-.597	-.597	0	%100
12	MP3A	Z	0	0	0	%100
13	MP4A	X	-.597	-.597	0	%100
14	MP4A	Z	0	0	0	%100
15	MP5A	X	-.597	-.597	0	%100
16	MP5A	Z	0	0	0	%100
17	OVP	X	-.53	-.53	0	%100
18	OVP	Z	0	0	0	%100
19	M25A	X	0	0	0	%100
20	M25A	Z	0	0	0	%100
21	M31	X	-.724	-.724	0	%100
22	M31	Z	0	0	0	%100
23	M25B	X	-.772	-.772	0	%100
24	M25B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.574	-.574	0	%100
2	M1	Z	-.332	-.332	0	%100
3	M2	X	-.479	-.479	0	%100
4	M2	Z	-.276	-.276	0	%100
5	FACE	X	-.188	-.188	0	%100
6	FACE	Z	-.108	-.108	0	%100
7	MP1A	X	-.517	-.517	0	%100
8	MP1A	Z	-.298	-.298	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
9	MP2A	X	-517	-517	0	%100
10	MP2A	Z	-298	-298	0	%100
11	MP3A	X	-517	-517	0	%100
12	MP3A	Z	-298	-298	0	%100
13	MP4A	X	-517	-517	0	%100
14	MP4A	Z	-298	-298	0	%100
15	MP5A	X	-517	-517	0	%100
16	MP5A	Z	-298	-298	0	%100
17	OVP	X	-459	-459	0	%100
18	OVP	Z	-265	-265	0	%100
19	M25A	X	-188	-188	0	%100
20	M25A	Z	-108	-108	0	%100
21	M31	X	-.47	-.47	0	%100
22	M31	Z	-.272	-.272	0	%100
23	M25B	X	-.553	-.553	0	%100
24	M25B	Z	-.32	-.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft....	End Magnitude[lb/ft....	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-.111	-.111	0	%100
2	M1	Z	-.191	-.191	0	%100
3	M2	X	-.276	-.276	0	%100
4	M2	Z	-.479	-.479	0	%100
5	FACE	X	-.325	-.325	0	%100
6	FACE	Z	-.564	-.564	0	%100
7	MP1A	X	-.298	-.298	0	%100
8	MP1A	Z	-.517	-.517	0	%100
9	MP2A	X	-.298	-.298	0	%100
10	MP2A	Z	-.517	-.517	0	%100
11	MP3A	X	-.298	-.298	0	%100
12	MP3A	Z	-.517	-.517	0	%100
13	MP4A	X	-.298	-.298	0	%100
14	MP4A	Z	-.517	-.517	0	%100
15	MP5A	X	-.298	-.298	0	%100
16	MP5A	Z	-.517	-.517	0	%100
17	OVP	X	-.265	-.265	0	%100
18	OVP	Z	-.459	-.459	0	%100
19	M25A	X	-.325	-.325	0	%100
20	M25A	Z	-.564	-.564	0	%100
21	M31	X	-.091	-.091	0	%100
22	M31	Z	-.157	-.157	0	%100
23	M25B	X	-.187	-.187	0	%100
24	M25B	Z	-.323	-.323	0	%100

Member Area Loads

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

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N1	max	1826.026	9	-5.891	11	-432.216	12	.522	14	8.16	9	1.959	3
2		min	-1783.814	3	-277.957	17	-3922.05	18	-.169	8	-8.03	3	-1.58	45
3	N53	max	497.249	12	191.699	12	1826.288	1	.066	6	2.631	10	.874	27
4		min	-536.166	6	-52.649	6	-2601.762	7	-.408	24	-2.831	4	-.765	45
5	N48A	max	19.086	10	3451.925	18	5050.538	18	0	75	.329	33	.489	33

Envelope Joint Reactions (Continued)

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
6		min	-16.875	4	836.99	75	1221.071	75	0	1	-26	39	-387	39
7	Totals:	max	2011.163	10	3300.186	15	2776.887	1						
8		min	-2011.159	4	837.418	73	-2776.878	7						

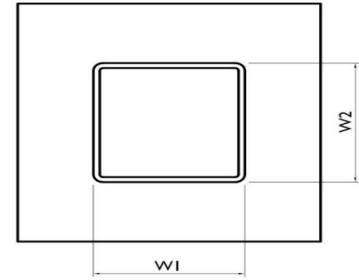
Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [l...	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn	
1	M1	HSS4X4X4	.521	0	3	.219	4.583	y	27	125658.2...	139518	16.181	16.181	1...	H1-1b
2	M2	PIPE 3.0	.000	.75	4	.000	.75		4	64424.35	65205	5.749	5.749	1...	H1-1b
3	FACE	PIPE 3.0	.503	6.729	14	.177	6.729		20	24685.371	65205	5.749	5.749	1...	H1-1b
4	MP1A	PIPE 2.0	.285	2.99	7	.115	3.063		15	17855.085	32130	1.872	1.872	4...	H1-1b
5	MP2A	PIPE 2.0	.570	2.99	1	.199	3.063		14	17855.085	32130	1.872	1.872	4...	H1-1b
6	MP3A	PIPE 2.0	.426	3.938	20	.240	3.938		9	17855.085	32130	1.872	1.872	3...	H1-1b
7	MP4A	PIPE 2.0	.438	3.938	15	.194	3.938		13	17855.085	32130	1.872	1.872	4...	H1-1b
8	MP5A	PIPE 2.0	.285	2.99	7	.111	3.063		23	17855.085	32130	1.872	1.872	4...	H1-1b
9	OVP	PIPE 2.0	.230	3.477	2	.016	3.477		2	27144.736	32130	1.872	1.872	1...	H1-1b
10	M25A	PIPE 3.0	.753	6.729	7	.181	6.729		7	24685.371	65205	5.749	5.749	1...	H1-1b
11	M31	HSS3X3X4	.347	5	2	.124	0	z	28	83064.957	101016	8.556	8.556	2.1	H1-1b
12	M25B	PIPE 3.0	.110	0	18	.116	0		33	55378.532	65205	5.749	5.749	1...	H1-1b*

Tower Connection Weld Checks

Weld Shape:
Weld Stiffener Configuration:
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
3.29
5.57
59.1%



Tower Connection Weld Checks

Weld Shape:
 Weld Stiffener Configuration:
 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
5
3
3
12.00
12.00
12.00
36.00
1.75
1.75
5.69
6.96
81.7%

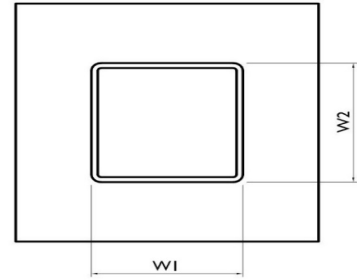


EXHIBIT 5





RF Design and Services
326 Tyron Road
Raleigh, NC 27603
(612) 965-8225
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Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:

283562

Site Name:

North Bloomfield CT

Location:

Bloomfield, Connecticut

Tenants:

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

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

October 10th, 2023

68464 P-407658

Prepared By:

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

Approved By:





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Non-Ionizing Electromagnetic Radiation (NIER) Study

283562 North Bloomfield CT
Bloomfield, 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 283562 North Bloomfield CT is located at 2627 Day Hill Rd., in Bloomfield, Connecticut at coordinates 41.876558, -72.741851. The support structure is a 140' monopole. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are AT&T Mobility (AT&T) T-Mobile (T-Mobile), & 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 200' from the base of the tower with a height of 6' above ground level was used, beyond 200' 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 283562 North Bloomfield CT.RF NIER Study 9/24/23.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

SITE MITIGATION & CONTROL

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

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

COMPLIANCE DETERMINATION

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

APPENDIX 1 Site Photos

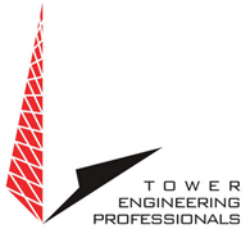


Aerial View of Site

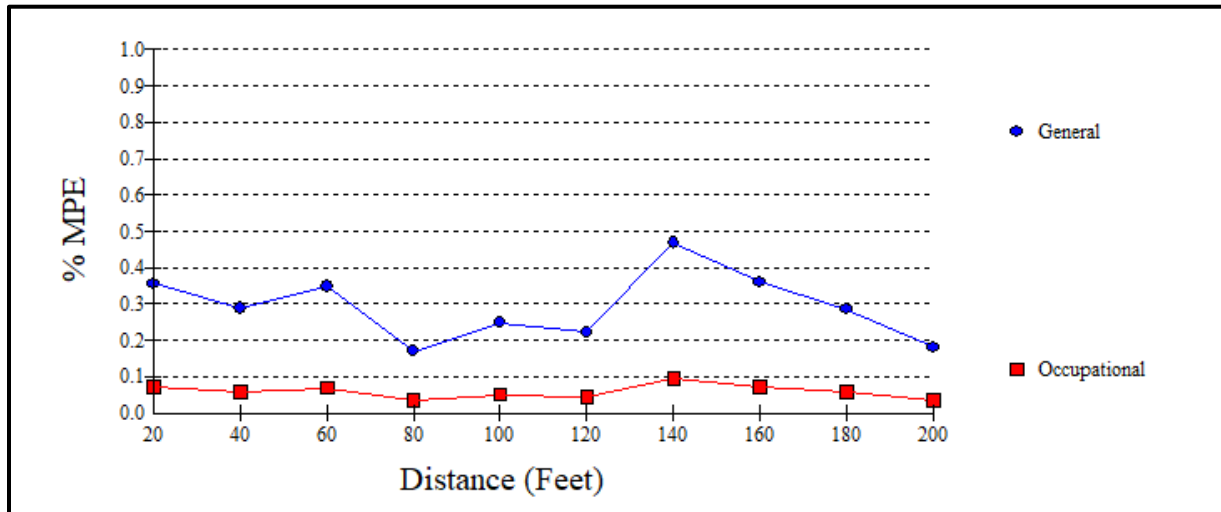


Appendix 2 Antenna Inventory

283562 North Bloomfield CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	AT&T	CCI	TPA65R-BU8D	700/2100	000	36338	135.0
2	AT&T	CCI	TPA65R-BU8D	700/2100	110	36338	135.0
3	AT&T	CCI	TPA65R-BU8D	700/2100	210	36338	135.0
4	AT&T	CCI	HPA65R-BU8A	700/2300	000	35334	135.0
5	AT&T	CCI	HPA65R-BU8A	700/2300	110	35334	135.0
6	AT&T	CCI	HPA65R-BU8A	700/2300	210	35334	135.0
7	AT&T	CCI	DMP65R-BU8D	700/800/1900	000	61549	135.0
8	AT&T	CCI	DMP65R-BU8D	700/800/1900	110	61549	135.0
9	AT&T	CCI	DMP65R-BU8D	700/800/1900	210	61549	135.0
10	Verizon	Antel	LPA-80063/6CF	700/800/1900/2100	340	108958	110.0
11	Verizon	Antel	LPA-80063/6CF	700/800/1900/2100	100	108958	110.0
12	Verizon	Antel	LPA-80063/6CF	700/800/1900/2100	200	108958	110.0
13	Verizon	Antel	LPA-80063/6CF	700/800/1900/2100	340	108958	110.0
14	Verizon	Antel	LPA-80063/6CF	700/800/1900/2100	100	108958	110.0
15	Verizon	Antel	LPA-80063/6CF	700/800/1900/2100	200	108958	110.0
16	Verizon	Commscope	JAHH-65B-R3B	700/800/1900/2100	340	59387	110.0
17	Verizon	Commscope	JAHH-65B-R3B	700/800/1900/2100	100	59387	110.0
18	Verizon	Commscope	JAHH-65B-R3B	700/800/1900/2100	200	59387	110.0
19	Verizon	Commscope	JAHH-65B-R3B	700/800/1900/2100	340	59387	110.0
20	Verizon	Commscope	JAHH-65B-R3B	700/800/1900/2100	100	59387	110.0
21	Verizon	Commscope	JAHH-65B-R3B	700/800/1900/2100	200	59387	110.0
22	Verizon	Samsung	MT6407	3700/3800/3900	340	18286	109.0
23	Verizon	Samsung	MT6407	3700/3800/3900	100	18286	109.0
24	Verizon	Samsung	MT6407	3700/3800/3900	200	18286	109.0
25	T-Mobile	Ericsson	Air 6419	2500/2600	080	20253	100.0
26	T-Mobile	Ericsson	Air 6419	2500/2600	180	20253	100.0
27	T-Mobile	Ericsson	Air 6419	2500/2600	330	20253	100.0
28	T-Mobile	RFS	APXVAALL24	600/1900/2100	080	27933	100.0
29	T-Mobile	RFS	APXVAALL24	600/1900/2100	180	27933	100.0
30	T-Mobile	RFS	APXVAALL24	600/1900/2100	330	27933	100.0

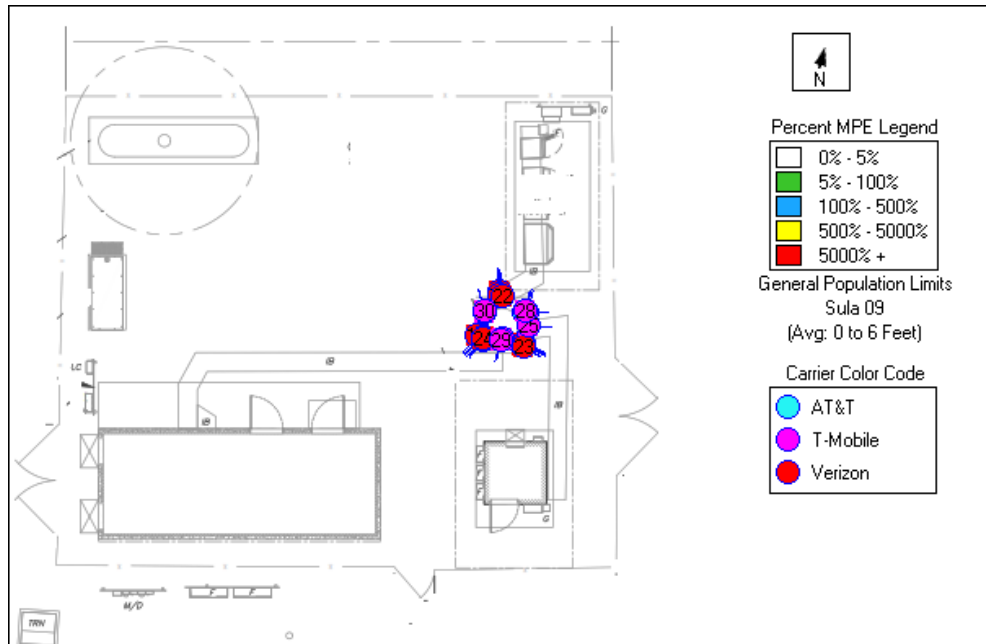


Appendix 3.1 MPE Limit Study



Maximum Power Density (@140'):	0.0029 mW/cm ²
General Population MPE (@140'):	0.4681%
Occupational MPE (@140'):	0.0936%

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.

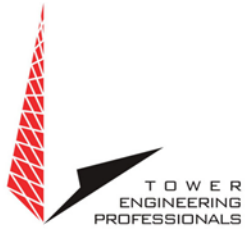
General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore,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

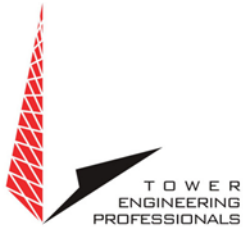


The FCC's limits for exposure at different frequencies are shown in the following Tables.

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



<p>DOCKET NO. 416 - Cellco Partnership d/b/a Verizon Wireless application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located off of Day Hill Road, Bloomfield, Connecticut.</p>	<p>} Connecticut } Siting } Council</p>
---	---

November 3, 2011

Decision and Order

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

Unless otherwise approved by the Council, the facility shall be constructed, operated, and maintained substantially as specified in the Council’s record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of the Certificate Holder and other entities, both public and private, but such tower shall not exceed a height of 110 feet above ground level. The height at the top of the Certificate Holder’s antennas shall not exceed 113 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Bloomfield for comment, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line, and landscaping; and
 - b) construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. Prior to the commencement of operation, the Certificate Holder shall provide the Council worst-case modeling of the electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of the electromagnetic radio frequency power density be submitted to the Council if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
4. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Bloomfield and/or Windsor public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
7. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed with at least one fully operational wireless telecommunications carrier providing wireless service within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The Certificate Holder shall provide written notice to the Executive Director of any schedule changes as soon as is practicable.
8. Any request for extension of the time period referred to in Condition 7 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Bloomfield. Any proposed modifications to this Decision and Order shall likewise be so served.
9. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
10. Any nonfunctioning antenna, and associated antenna mounting equipment, on this facility shall be removed within 60 days of the date the antenna ceased to function.

11. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction, and the commencement of site operation.
12. The Certificate Holder shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v.
13. This Certificate may be transferred in accordance with Conn. Gen. Stat. §16-50k(b), provided both the Certificate Holder/transferor and the transferee are current with payments to the Council for their respective annual assessments and invoices under Conn. Gen. Stat. §16-50v. In addition, both the Certificate Holder/transferor and the transferee shall provide the Council a written agreement as to the entity responsible for any quarterly assessment charges under Conn. Gen. Stat. §16-50v(b)(2) that may be associated with this facility.
14. The Certificate Holder shall maintain the facility and associated equipment, including but not limited to, the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line and landscaping in a reasonable physical and operational condition that is consistent with this Decision and Order and a Development and Management Plan to be approved by the Council.
15. If the Certificate Holder is a wholly-owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the Certificate Holder within 30 days of the sale and/or transfer.

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

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

The parties and intervenors to this proceeding are:

Applicant

Cellco Partnership d/b/a
Verizon Wireless

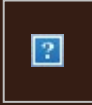
Its Representative

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

EXHIBIT 7



From: [UPS](#)
To: [Barbara Kassabian](#)
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030319379777
Date: Tuesday, October 24, 2023 1:29:38 PM



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CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030319379777
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:	14519454

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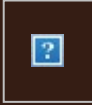
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Tracking Number:	1Z9Y45030300071759
Ship To:	JOHN LAFOUNTAIN 800 BLOOMFIELD AVENUE TOWN HALL BLOOMFIELD, CT 060022460 US
Number of Packages:	1
UPS Service:	UPS Ground
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Reference Number:	14519454

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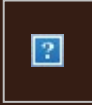
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Ship To:	PHILLIP SCHENCK 800 BLOOMFIELD AVENUE TOWN HALL BLOOMFIELD, CT 060022460 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14519454

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