

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

March 15, 2024

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

**RE: Notice of Exempt Modification // Site: COLCHESTER SOUTH CT (ATC: 411179)
812 Middletown Road (a/k/a 856 Middletown Road), Colchester, CT 06415
N 41.551630 // W -72.425790**

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains nine (9) antenna at the 180-ft level on the existing 181 ft Tower, located at 856 Middletown Road, Colchester, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation of a new mount modification and side by side mounts 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 Colchester'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 December 15, 2023, by A.T Engineering Services, LLC, a structural analysis dated January 4, 2024, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated November 15, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated December 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

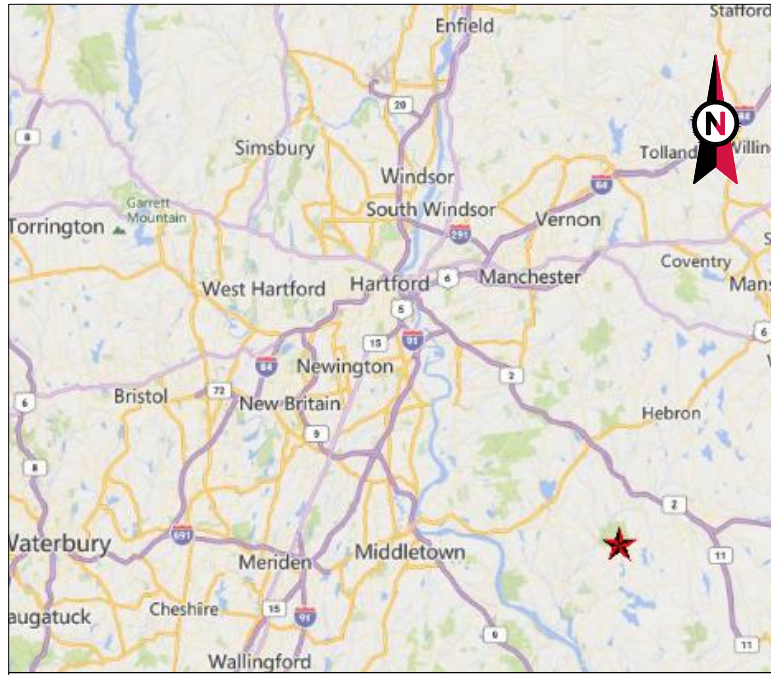
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Attachments: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Available Original Tower Approval Records
Exhibit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

cc: Bernie Dennler – First Selectman – Chief Elected Official
Demian Sorrentino – Planning Director - as P&Z official
Sarah and Sean Hannah – as ground owner
American Tower Corporation - as tower owner

EXHIBIT 1





VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: COLCHESTER SOUTH CT
 ATC SITE NUMBER: 411179
 VERIZON SITE NAME: COLCHESTER SOUTH CT
 VERIZON SITE NUMBER: 5000121576
 VERIZON FUZE PID: 16272138
 SITE ADDRESS: 856 MIDDLETOWN ROAD
 COLCHESTER, CT 06415



LOCATION MAP

BIRD WATCH SITE:
 PLEASE CONTACT bird.watch@americantower.com OR
 AMERICAN TOWER NOC AT 877-518-6937 FOR ASSISTANCE

VERIZON AMENDMENT DRAWINGS

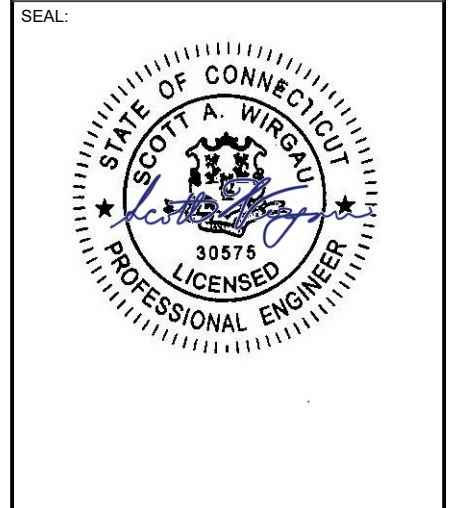
COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 2021 IBC NATIONAL ELECTRICAL CODE (NFPA 70, NEC 2020 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE, IMC PORTION (IMC 2021 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE, IPC PORTION (IPC 2021 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE, IECC PORTION (IECC 2021 W/ AMND) PART III OF THE 2022 CT STATE FIRE SAFETY CODE (IFC 2021 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE, IEBC PORTION (IEBC 2021 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE 2022 CONNECTICUT STATE BUILDING CODE, IRC PORTION (IRC 2021 W/ AMND) CONNECTICUT STATE FUEL GAS CODE (IFGC 2021 W/ AMND)	<u>SITE ADDRESS:</u> 856 MIDDLETOWN ROAD COLCHESTER, CT 06415 COUNTY: NEW LONDON <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41° 33' 6.011" N LONGITUDE: 72° 25' 32.816" W GROUND ELEVATION: 561' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (9) ANTENNA(S), (3) STANDOFF MOUNT(S), (6) RRH(S), AND (2) OVP(S) INSTALL MOUNT MODIFICATIONS, (3) SIDE-BY-SIDE MOUNT(S), (9) ANTENNA(S), (6) RRH(S), AND (1) OVP(S) EXISTING (6) ANTENNA(S) AND (18) 1-5/8" COAX / (2) 1-1/4" HYBRID CABLE(S) TO REMAIN <u>GROUND WORK:</u> REMOVE (3) RRU(S)	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> A.T. ENGINEERING SERVICES LLC 1 FENTON MAIN, STE 300 CARY, NC 27511 <u>PROPERTY OWNER:</u> LORRAINE M LEONE TTE 856 MIDDLETOWN ROAD COLCHESTER, CT 06415	PROJECT NOTES 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001	TITLE SHEET	0	3/6/2024	JLR
			CONTRACTOR PMI REQUIREMENTS PMI ACCESSED AT: HTTPS://PMI.VZSMART.COM SMART TOOL VENDOR PROJECT NUMBER: 10221201 VZW LOCATION CODE (PSLC): 5000121576 ***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT MOUNT MODIFICATION REQUIRED: YES VZW APPROVED SMART KIT VENDORS: REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS				
<u>UTILITY COMPANIES</u> POWER COMPANY: NORTHEAST UTILITIES PHONE: (860) 358-3200 TELEPHONE COMPANY: WESTELL PHONE: (630) 898-2500		<u>PROJECT LOCATION DIRECTIONS</u> FROM EAST HARTFORD TAKE ROUTE 2 EAST TO EXIT 16 RTE. 149 WESTCHESTER/ MOODUS. RIGHT OFF RAMP ONTO RTE. 149 SOUTH. APPROX. 3.3 MILES TAKE RIGHT AT TRAFFIC LIGHT ONTO RTE. 16 WEST. APPROX. .5 MILES LOOK FOR TUBULAR GATE ON RIGHT MARKED 812. FOLLOW DIRT ROAD BACK TO SITE.					

AMERICAN TOWER®
 A.T. ENGINEERING SERVICES LLC
 1 FENTON MAIN
 SUITE 300
 CARY, NC 27511
 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	JLR	03/07/24

ATC SITE NUMBER:
 411179
 ATC SITE NAME:
 COLCHESTER SOUTH CT
 VERIZON SITE NAME:
 COLCHESTER SOUTH CT
 SITE ADDRESS:
 856 MIDDLETOWN ROAD
 COLCHESTER, CT 06415



ATC JOB NO: 14539900_GO
 CUSTOMER ID: COLCHESTER SOUTH CT
 CUSTOMER #: 5000121576

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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
32. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
34. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

- 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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 1 FENTON MAIN
 SUITE 300
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 PHONE: (919) 468-0112
 PEC.0001553

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0	FOR CONSTRUCTION	JLR	03/07/24

ATC SITE NUMBER:
411179

ATC SITE NAME:

COLCHESTER SOUTH CT

VERIZON SITE NAME:

COLCHESTER SOUTH CT

SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:



Digitally Signed: 2024-03-07



ATC JOB NO:	14539900_GO
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	5000121576

GENERAL NOTES

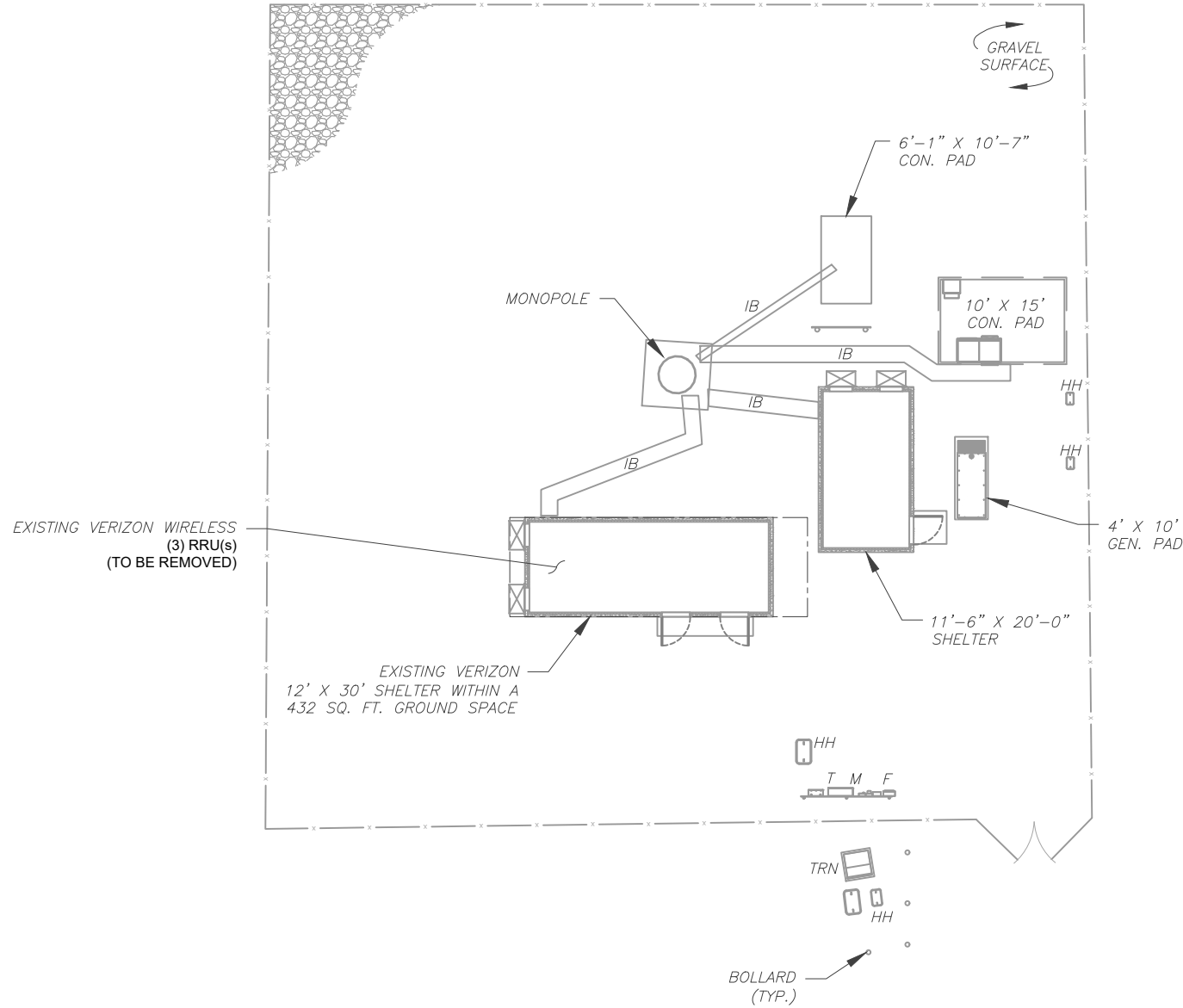
SHEET NUMBER:
G-002

REVISION:
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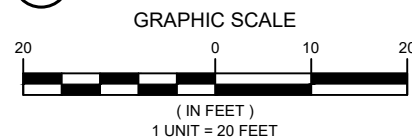
SITE PLAN NOTES:

- 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



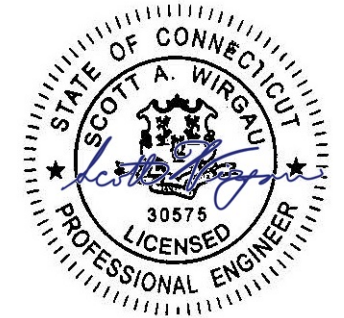
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SEAL:



Digitally Signed: 2024-03-07



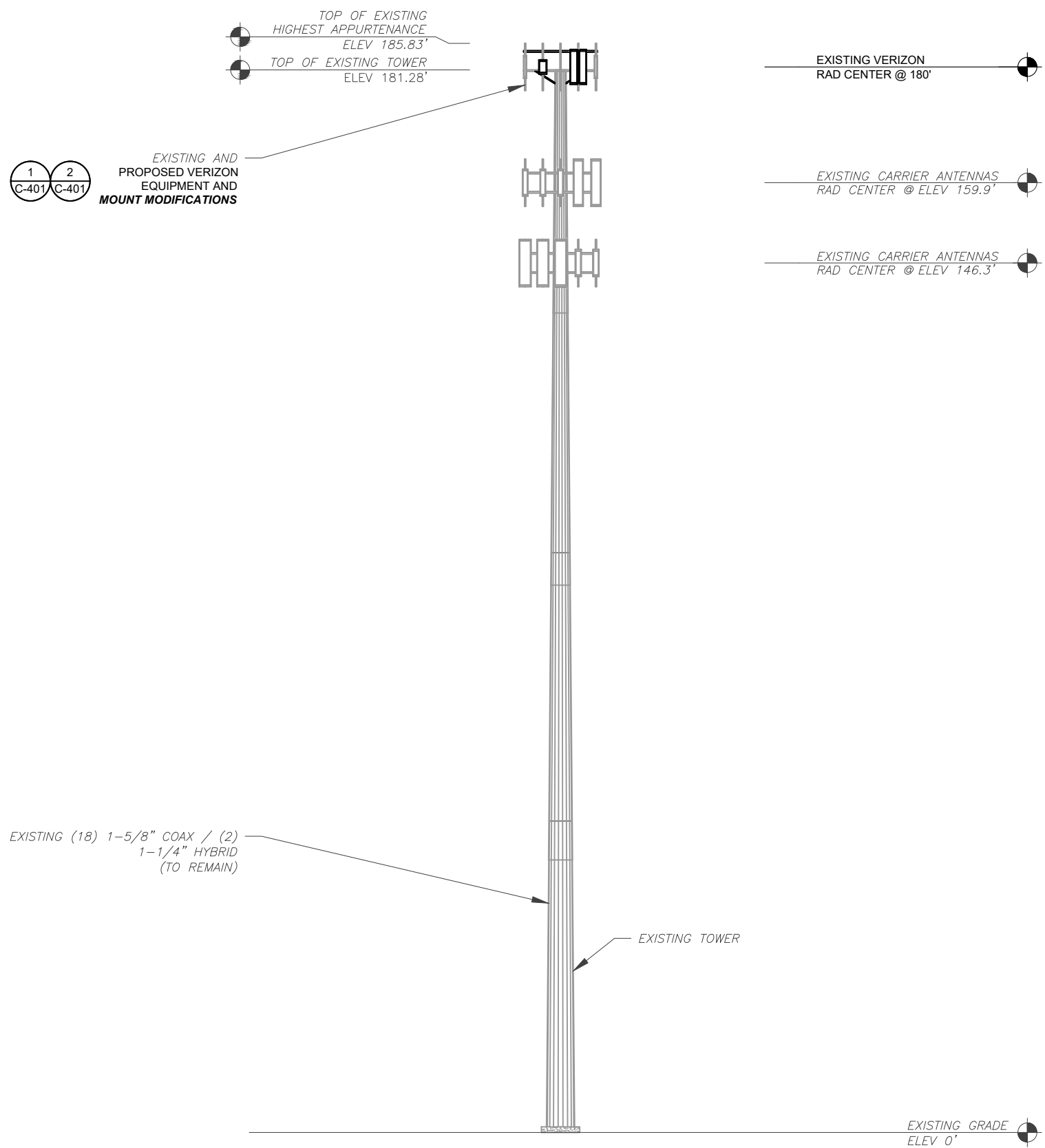
ATC JOB NO:	14539900_G0
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	5000121576

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

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PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 02/06/2024, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



EXISTING AND PROPOSED VERIZON EQUIPMENT AND MOUNT MODIFICATIONS

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

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

1 TOWER ELEVATION
SCALE: N.T.S.



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

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JLR	03/07/24

ATC SITE NUMBER:
411179
 ATC SITE NAME:
COLCHESTER SOUTH CT
 VERIZON SITE NAME:
COLCHESTER SOUTH CT
 SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415



Digitally Signed: 2024-03-07

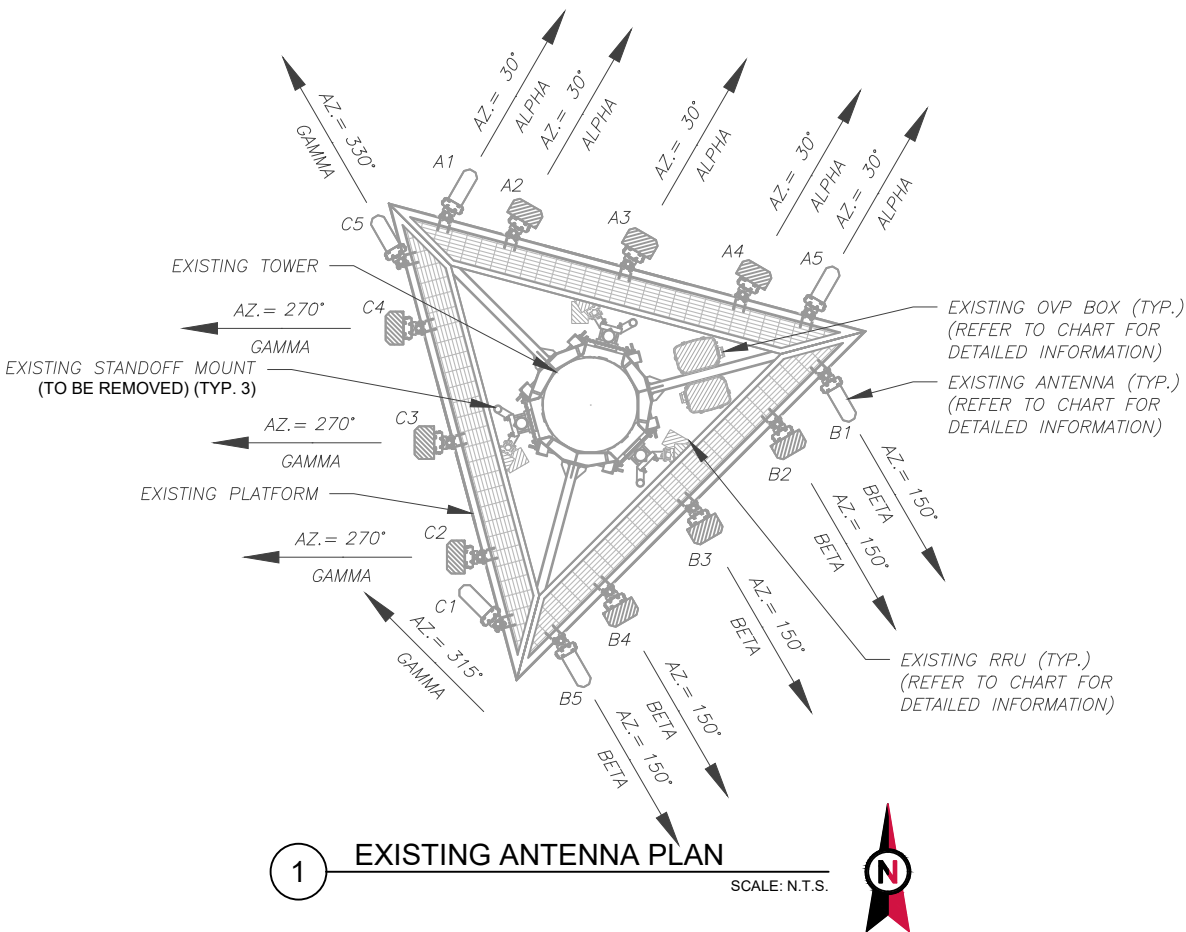


ATC JOB NO: 14539900_GO
 CUSTOMER ID: COLCHESTER SOUTH CT
 CUSTOMER #: 5000121576

TOWER ELEVATION

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

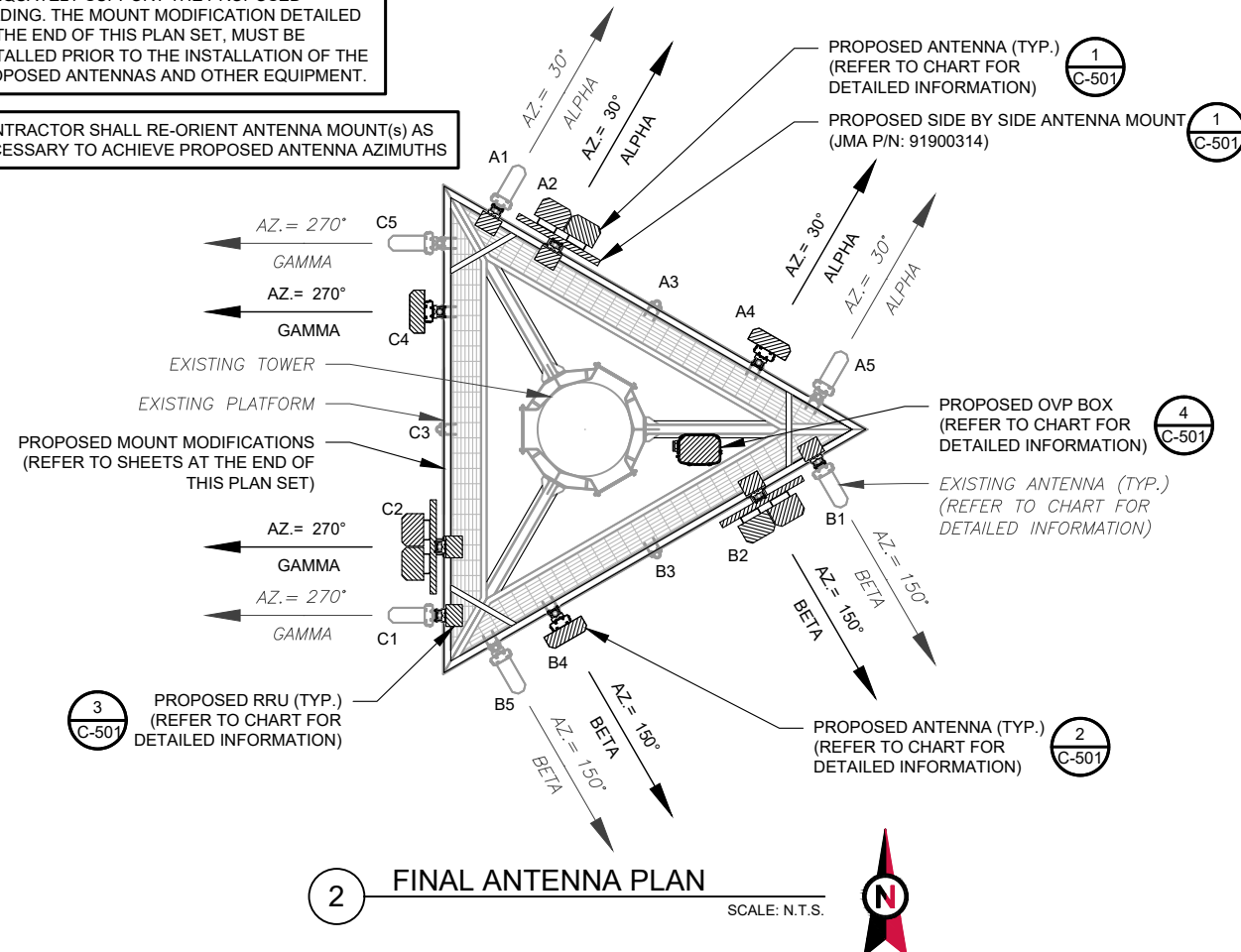
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1 EXISTING ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN, DATED 02/06/2024, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

CONTRACTOR SHALL RE-ORIENT ANTENNA MOUNT(S) AS NECESSARY TO ACHIEVE PROPOSED ANTENNA AZIMUTHS



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

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

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ATC SITE NAME:
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VERIZON SITE NAME:
COLCHESTER SOUTH CT
SITE ADDRESS:
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415

SEAL:

Digitally Signed: 2024-03-07

ATC JOB NO: 14539900_GO
CUSTOMER ID: COLCHESTER SOUTH CT
CUSTOMER #: 5000121576

ANTENNA INFORMATION & SCHEDULE

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

EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	180°	30°	A1	LPA-80080-4CF-EDIN-0	-	RMN	-	-
			A2	HBXX-6517DS-A2M	AWS LTE	RMV	-	-
			A3	LNx-6514DS-A1M	700 LTE	RMV	UHIC B4 RRH 2X60-4R UHBA B13 RRH 4X30	RMV RMV
			A4	HBXX-6517DS-A2M	AWS LTE	RMV	-	-
			A5	LPA-80080-4CF-EDIN-0	-	RMN	-	-
BETA	180°	150°	B1	LPA-80080-4CF-EDIN-0	-	RMN	-	-
			B2	HBXX-6517DS-A2M	AWS LTE	RMV	-	-
			B3	LNx-6514DS-A1M	700 LTE	RMV	UHIC B4 RRH 2X60-4R UHBA B13 RRH 4X30	RMV RMV
			B4	HBXX-6517DS-A2M	AWS LTE	RMV	-	-
			B5	LPA-80080-4CF-EDIN-0	-	RMN	-	-
GAMMA	180°	270°	C1	LPA-80080-4CF-EDIN-0	-	RMN	-	-
			C2	HBXX-6517DS-A2M	AWS LTE	RMV	-	-
			C3	LNx-6514DS-A1M	700 LTE	RMV	UHIC B4 RRH 2X60-4R UHBA B13 RRH 4X30	RMV RMV
			C4	HBXX-6517DS-A2M	AWS LTE	RMV	-	-
			C5	LPA-80080-4CF-EDIN-0	-	RMN	-	-

NOTES

- GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.
- GC TO CAP ALL UNUSED PORTS.
- GC TO 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	180°	30°	A1	LPA-80080-4CF-EDIN-0	-	RMN	RF4461D-13A	ADD
			A2	(2) MX06FRO660-03	700 LTE/850 5G LTE/ 1900 LTE/AWS LTE	ADD	RF4439D-25A	ADD
			A3	-	-	-	-	-
			A4	MT6413-77A	L-SUB6 5G	ADD	-	-
			A5	LPA-80080-4CF-EDIN-0	-	RMN	-	-
BETA	180°	150°	B1	LPA-80080-4CF-EDIN-0	-	RMN	RF4461D-13A	ADD
			B2	(2) MX06FRO660-03	700 LTE/850 5G LTE/ 1900 LTE/AWS LTE	ADD	RF4439D-25A	ADD
			B3	-	-	-	-	-
			B4	MT6413-77A	L-SUB6 5G	ADD	-	-
			B5	LPA-80080-4CF-EDIN-0	-	RMN	-	-
GAMMA	180°	270°	C1	LPA-80080-4CF-EDIN-0	-	RMN	RF4461D-13A	ADD
			C2	(2) MX06FRO660-03	700 LTE/850 5G LTE/ 1900 LTE/AWS LTE	ADD	RF4439D-25A	ADD
			C3	-	-	-	-	-
			C4	MT6413-77A	L-SUB6 5G	ADD	-	-
			C5	LPA-80080-4CF-EDIN-0	-	RMN	-	-

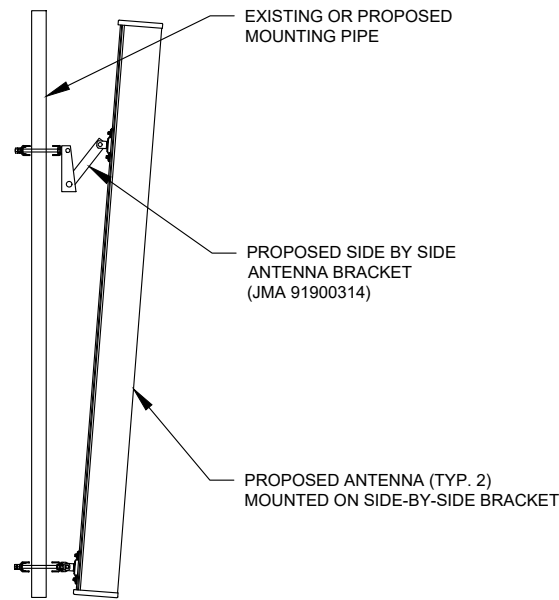
EXISTING FIBER DISTRIBUTION / OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(2) DB-T1-6Z-8AB-0Z	RMV	(18) 1-5/8" COAX / (2) 1-1/4" HYBRID	RMN

3 EQUIPMENT SCHEDULES

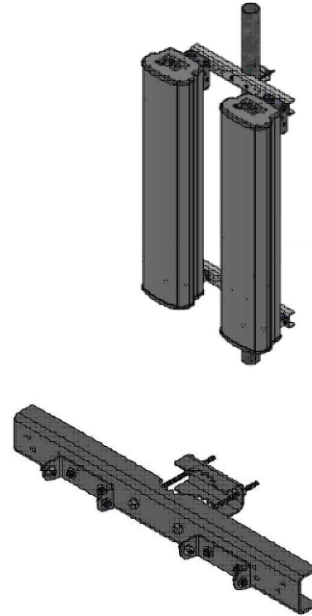
FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(1) RVZDC-6627-PF-48	ADD	(18) 1-5/8" COAX / (2) 1-1/4" HYBRID	RMN

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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.

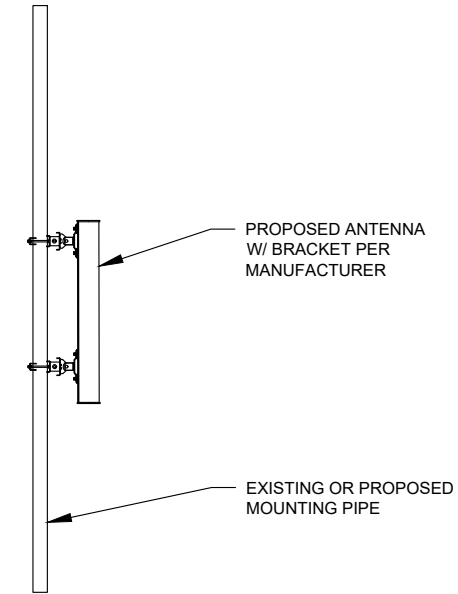


PROFILE VIEW

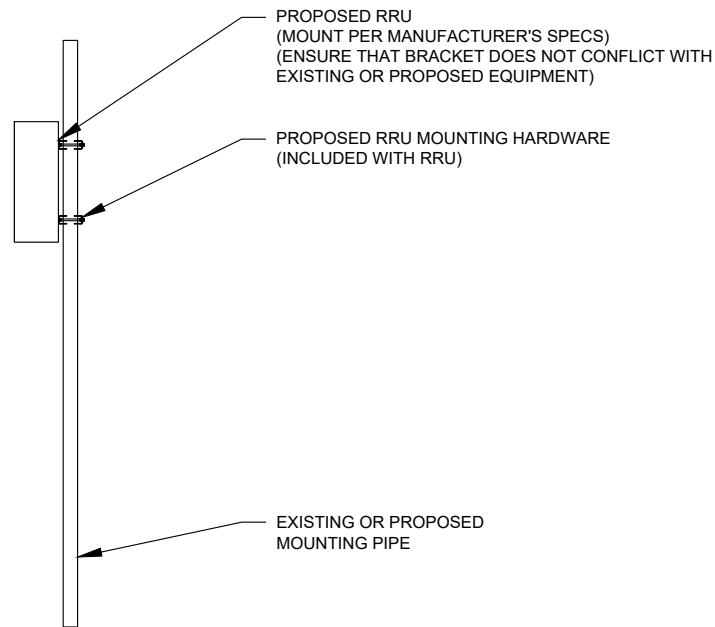


ISOMETRIC VIEW (BY MANUFACTURER)

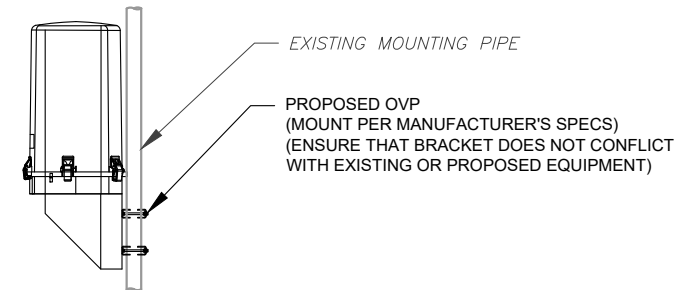
1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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



4 PROPOSED OVP MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



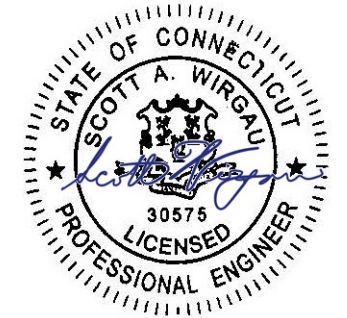
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A.T. ENGINEERING SERVICES LLC
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 SUITE 300
 CARY, NC 27511
 PHONE: (919) 468-0112
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0	FOR CONSTRUCTION	JLR	03/07/24

ATC SITE NUMBER:
 411179
 ATC SITE NAME:
 COLCHESTER SOUTH CT
 VERIZON SITE NAME:
 COLCHESTER SOUTH CT
 SITE ADDRESS:
 856 MIDDLETOWN ROAD
 COLCHESTER, CT 06415

SEAL:



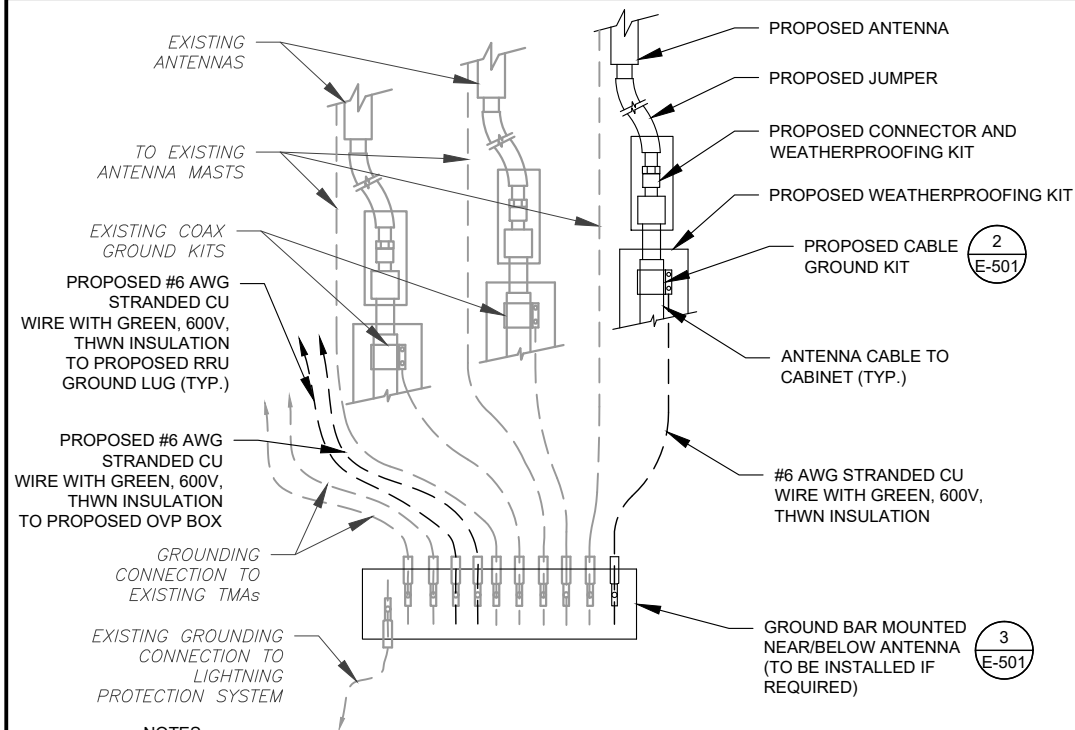
Digitally Signed: 2024-03-07



ATC JOB NO:	14539900_G0
CUSTOMER ID:	COLCHESTER SOUTH CT
CUSTOMER #:	5000121576

**CONSTRUCTION
 DETAILS**

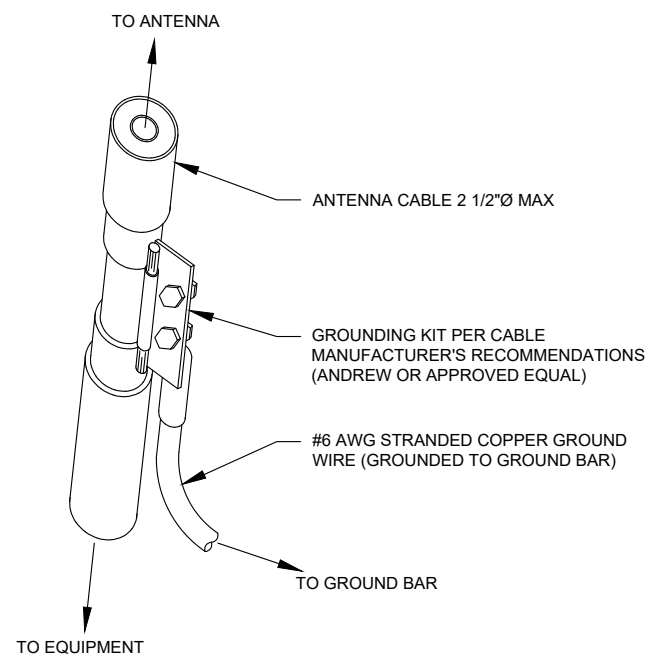
SHEET NUMBER:	REVISION:
C-501	0



NOTES:

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

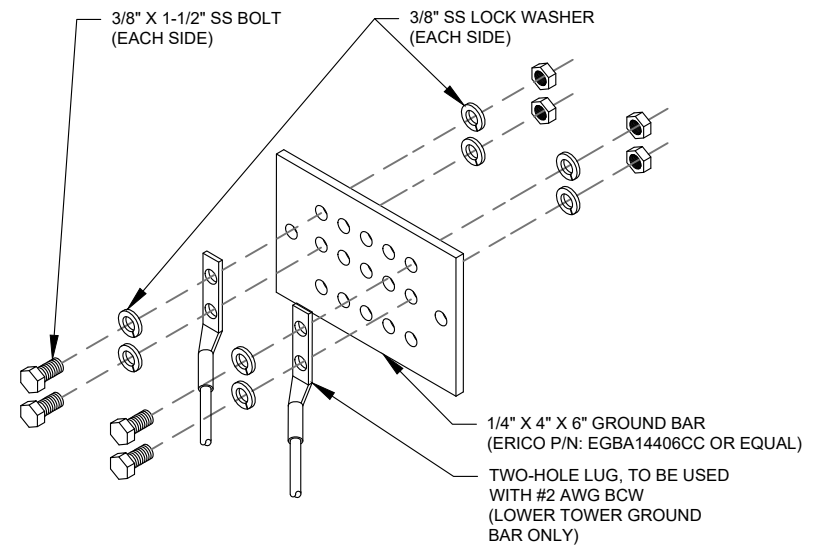
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

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

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



GROUND BAR NOTES:

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

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

AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
 1 FENTON MAIN
 SUITE 300
 CARY, NC 27511
 PHONE: (919) 468-0112
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0	FOR CONSTRUCTION	JLR	03/07/24

ATC SITE NUMBER:
411179
 ATC SITE NAME:
COLCHESTER SOUTH CT
 VERIZON SITE NAME:
COLCHESTER SOUTH CT
 SITE ADDRESS:
 856 MIDDLETOWN ROAD
 COLCHESTER, CT 06415

SEAL:

Digitally Signed: 2024-03-07

ATC JOB NO: 14539900_G0
 CUSTOMER ID: COLCHESTER SOUTH CT
 CUSTOMER #: 5000121576

GROUNDING DETAILS

SHEET NUMBER: E-501	REVISION: 0
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1 MOUNT ANALYSIS

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

SUPPLEMENTAL

SHEET NUMBER:
R-600

REVISION:
0



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

Mount Post-Modification Analysis Report
 (1) 12.92-Ft Platform

February 6, 2024
 Site ID: 5000121576-VZW / COLCHESTER SOUTH
 CT
 Page | 5

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10221201
 Colliers Engineering & Design Project #: 21777720 (Rev 1)

February 6, 2024

Site Information

Site ID: 5000121576-VZW / COLCHESTER SOUTH CT
 Site Name: COLCHESTER SOUTH CT
 Carrier Name: Verizon Wireless
 Address: 856 Middletown Road
 Colchester, Connecticut 06415
 New London County
 Latitude: 41.55163°
 Longitude: -72.42579°

Structure Information

Tower Type: 180-Ft Monopole
 Mount Type: 12.92-Ft Platform

FUZE ID # 16272138

Analysis Results

Platform: 48.6% **Pass w/ Modifications***

*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: Nathan LaPorte



Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector B Standoff	178.50	N23	378	5998	0.286	0.975	416	4478	0.322	0.279
Sector A Standoff	178.50	N26	398	6193	0.431	1.171	315	4572	0.236	0.323
Sector C Standoff	178.50	N29	378	5989	0.286	0.976	415	4456	0.322	0.279
Sector B Reinforcement	176.25	N106A	2026	4020	0.000	0.000	2872	5684	0.000	0.000
Sector A Reinforcement	176.25	N107A	2085	4139	0.000	0.000	2909	5759	0.000	0.000
Sector C Reinforcement	176.25	N110	2022	4012	0.000	0.000	2861	5662	0.000	0.000

Notes:

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

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	23.7	23.7	45.4	45.4
0.5	30.7	30.7	61.5	61.5
1	37.2	37.2	77.1	77.1

Notes:

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

Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration (attachment 2) **after the modifications detailed in attachment 3 are successfully completed.**

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

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.



MOUNT MODIFICATION DRAWINGS
EXISTING 12.92' PLATFORM

TOWER OWNER: AMERICAN TOWER CORPORATION
TOWER OWNER SITE NUMBER: 411179

CARRIER SITE NAME: COLCHESTER SOUTH CT
CARRIER SITE NUMBER: 5000121576
FUZE ID: 16272138

856 MIDDLETOWN ROAD
COLCHESTER, CT 06415
NEW LONDON COUNTY

LATITUDE: 41.55163300° N
LONGITUDE: 72.42579400° W

DESIGN CRITERIA table with wind loads, seismic loads, and other specifications.

PROJECT INFORMATION table with applicant/lessee, client representative, and project manager details.

SHEET INDEX table with sheet description and title sheet information.

Colliers Engineering & Design logo and contact information, including address and phone number.

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BILL OF MATERIALS table with columns for quantity, manufacturer, part number, description, notes, unit weight, and weight. Includes sections for VZWSMART KITS, OTHER REQUIRED PARTS, and REQUIRED SAFETY CLIMB PARTS.

- NOTES: 1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SHARP TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS. 2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

COMMSCOPE, PERFECTVISION, and SITE PRO 1 contact information tables.

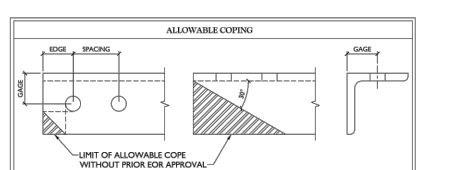
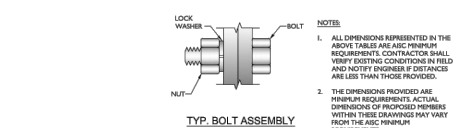
VZWSMART KITS - APPROVED VENDORS

Colliers Engineering & Design logo and contact information, including address and phone number.

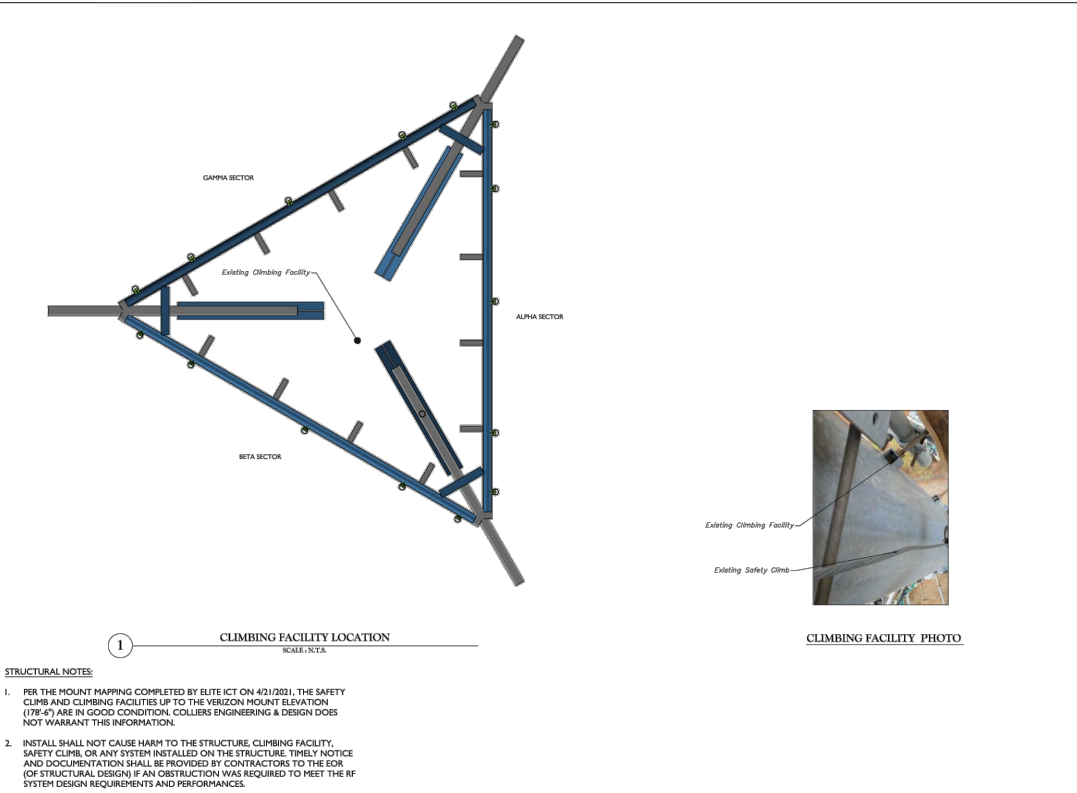
- GENERAL NOTES: 1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARDS... 2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES... 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK... 4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPANIED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE... 5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, PRACTICES, TECHNIQUES, SEQUENCES, AND PROCEDURES... 6. ALL CONSTRUCTION MEANS AND METHODS INCLUDING BUT NOT LIMITED TO ERECTION PLANS, RIGGING PLANS, CRIBBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR... 7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIALING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES... 8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30 MPH)... 9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, MAINTENANCE AND REPAIR OF ANTENNAS... 10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER... 11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR... 12. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE... 13. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS... 14. ALL EXISTING PAINTED/SURFACED SURFACES DAMAGED DURING REPAIR INCLUDING AREA LADDER TRIPPER PLATES SHALL BE VIBRE BRUSHED CLEAN, REPAIRED BY COLO GANVANIZED EPIC COATS OR FOR APPROVED EQUAL, AND BURNISHED TO MATCH THE EXISTING FINISH... 15. ALL HOLES IN STEEL MEMBERS SHALL BE 1/8" LARGER THAN THE BOLT DIAMETER, STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

- STRUCTURAL STEEL: 1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED BY THE CONTRACT DOCUMENTS: a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) HANDBOOK OF STEEL CONSTRUCTION (13TH EDITION) b. SPECIFICATION FOR STRUCTURAL JOINTS USING A193 AND A194 BOLTS c. AISC CODE OF STANDARD PRACTICE 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SPECIFIED: a. CHANNELS: ANGLES, PLATES, ETC. ASTM A36 (GR 36) b. STEEL PIPE ASTM A53 (GR 35) c. BOLTS ASTM A325 d. NUTS ASTM A308 e. LOCK WASHERS LOCKING STRUCTURAL GRADE 3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED, ESTIMATES OF COSTS AND COSTS TO THE SUB-CONTRACTORS SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED. 4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION: a. SUBMIT SHOP DRAWINGS TO: PETER.ALMAN@COLLIERSDESIGN.COM b. PROVIDE COLLIER ENGINEERING & DESIGN PROJECT # AND COLLIER ENGINEERING & DESIGN PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL. 5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD. 6. GALVANIZED A193 A325 BOLTS SHALL NOT BE REUSED. 7. ALL NEW STEEL SHALL BE HOT DIP GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS. 8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THE DRAWING REQUIRE COORDINATE TO BE INSTALLED IN ACCORDANCE WITH 10A-222.4 SECTION 4.3.3 REQUIREMENTS. 9. WARE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS. FABRICATOR SHALL DESIGN CONNECTIONS TO MEET LOADS AND MOMENTS SHOWN ON DRAWINGS AND AS DETAILED IN SPECIFICATIONS. 10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR HENRIER BOLT DISTANCE AND SPACING. 11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IF NOT NOTIFIED TO THE BOLT TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED. 12. GALVANIZED A193 A325 BOLTS SHALL NOT BE REUSED. 13. ALL NEW STEEL SHALL BE HOT DIP GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS. 14. ALL EXISTING PAINTED/SURFACED SURFACES DAMAGED DURING REPAIR INCLUDING AREA LADDER TRIPPER PLATES SHALL BE VIBRE BRUSHED CLEAN, REPAIRED BY COLO GANVANIZED EPIC COATS OR FOR APPROVED EQUAL, AND BURNISHED TO MATCH THE EXISTING FINISH (IF APPLICABLE). 15. ALL HOLES IN STEEL MEMBERS SHALL BE 1/8" LARGER THAN THE BOLT DIAMETER, STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

BOLT SCHEDULE (IN) table with columns for bolt diameter, standard hole, short slot, min edge distance, and spacing. Includes WORKABLE GAGES (IN) table.



Colliers Engineering & Design logo and contact information, including address and phone number.



- STRUCTURAL NOTES: 1. PER THE MOUNT MAPPING COMPLETED BY ELITE ICT ON 4/21/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VIRZON MOUNT ELEVATION (178'-4") ARE IN GOOD CONDITION. COLLIER ENGINEERING & DESIGN DOES NOT WARRANT THIS INFORMATION. 2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

Colliers Engineering & Design logo and contact information, including address and phone number.

SUPPLEMENTAL

SHEET NUMBER: R-602
REVISION: 0

1 MOUNT ANALYSIS

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.

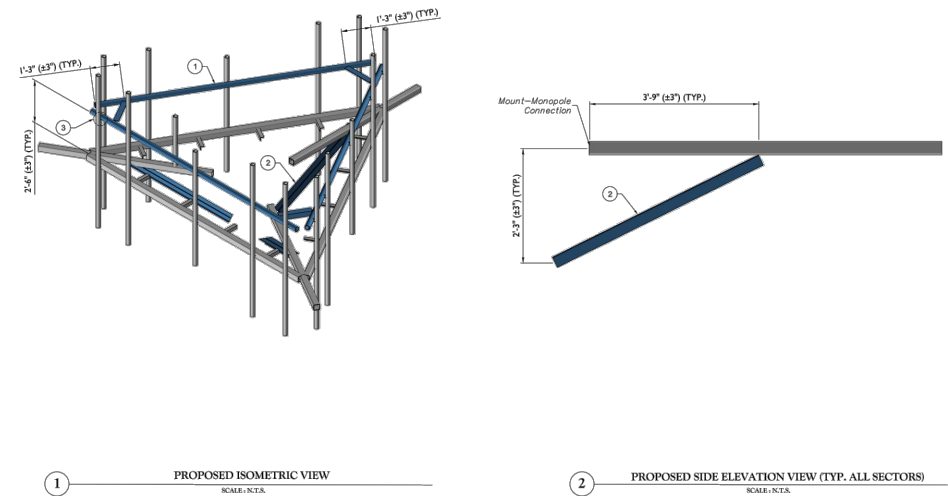
LEGEND:

- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE				NOTES
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1		1	PROPOSED SUPPORT RAIL KIT (PART # VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL. NOTES ON SHEET 1, RADIO AND/OR THE POSITION SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN.
2	178'-4"	1	PROPOSED KICKER KIT (PART # VZWSMART-PLK5)	CONTRACTOR SHALL REMOVE EXISTING RADIO COLLAR MOUNT AND ALL ASSOCIATED HARDWARE. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL. NOTES ON SHEET 1. CONNECT OTHER END OF KICKER KIT TO MONOROLE COLLAR MOUNT ASSEMBLY (PART # VZWSMART-PLK3), SEE GENERAL NOTES.
3		3	PROPOSED CROSSOVER KIT (PART # VZWSMART-HSK1)	CONTRACTOR TO INSTALL CROSSOVER KITS ON TO POSITION 1 OF EACH SECTOR CONNECTING TO NEW SUPPORT RAIL PIPE.

GENERAL NOTES:
 A. CONTRACTOR SHALL VERIFY THAT NEW & EXISTING STEEL IS FREE OF CORROSION. VISIBLE MINOR CORROSION SHALL BE WIRE BRUSHED CLEAN AND TREATED WITH COLD GALVANIZATION. REPORT ANY SIGNIFICANT CORROSION TO EOR.
 B. THREADED ENDS FROM PROPOSED KITS SHALL BE TRIMMED TO EXTEND NO MORE THAN 3" BEYOND THE LOCK NUT. TREAT ALL CUT ENDS WITH (2) COATS OF COLD GALVANIZATION (ZINC KOTE, OR FOR APPROVED EQUAL).
 C. MOUNT NUMBER NOT SHOWN FOR CLARITY UNDO.

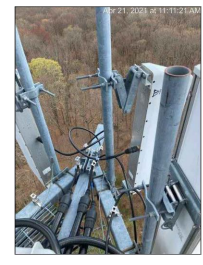
Colliers Engineering & Design
 www.colliersengineering.com
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 COLLIERS ENGINEERING & DESIGN, P.C.
 1000 WASHINGTON STREET, SUITE 200
 COLCHESTER, CT 06415
 (860) 526-1100
 COLCHESTER SOUTH CT
 500021576
 856 MIDDLETOWN ROAD
 COLCHESTER, CT 06415
 NEW LONDON COUNTY
 MODIFICATION DETAILS
 SS-1



MOUNT PHOTO 1



MOUNT PHOTO 2

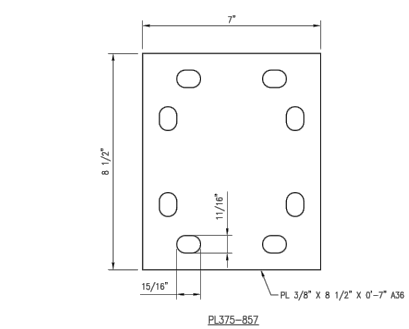
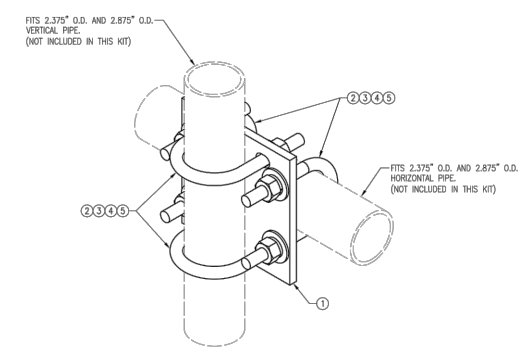


MOUNT PHOTO 3



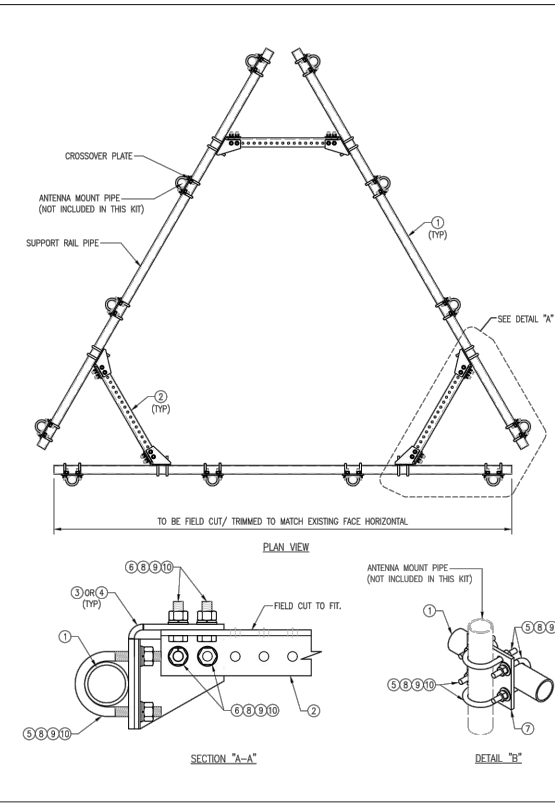
MOUNT PHOTO 4

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 (860) 526-1100
 COLCHESTER SOUTH CT
 500021576
 856 MIDDLETOWN ROAD
 COLCHESTER, CT 06415
 NEW LONDON COUNTY
 MOUNT PHOTOS
 SS-2



ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	1	PL375-857	PL 3/8" X 8 1/2" X 6"-7" A36	MSK1-F1	6	
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" LW X 5" LL A36 (OR EQUIV.)	RSC-1	5	
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1	
4	8	LW-625	5/8" HDG LOCK WASHER	---	0	
5	8	NUT-625	5/8" HDG HEX NUT	---	1	
					GALVANIZED WT	14

VzW SMART Tool Vendor
 Verizon
 DRAWN BY: HJR CHECKED BY: HMA
 DATE: 08/09/20
 SHEET TITLE: VZWSMART-MSK1 CROSSOVER PLATE
 SHEET NUMBER: VZWSMART-MSK1 REV # 0



NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292	
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66	
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28	
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28	
5	80	MS02-625-300-500	RU-BOLT 5/8" X 3" LW X 5" LL A36 (OR EQUIV.)	RBC-1	82	
6	24	---	BOLT 5/8" X 2" A325	---	9	
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77	
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12	
9	144	LW-625	5/8" HDG LOCK WASHER	---	3	
10	144	NUT-625	5/8" HDG HEX NUT	---	17	
					GALVANIZED WT	504

VzW SMART Tool Vendor
 Verizon
 DRAWN BY: HJR CHECKED BY: HMA
 DATE: 08/09/20
 SHEET TITLE: VZWSMART-PLK1 SUPPORT RAIL KIT
 SHEET NUMBER: VZWSMART-PLK1 REV # 0

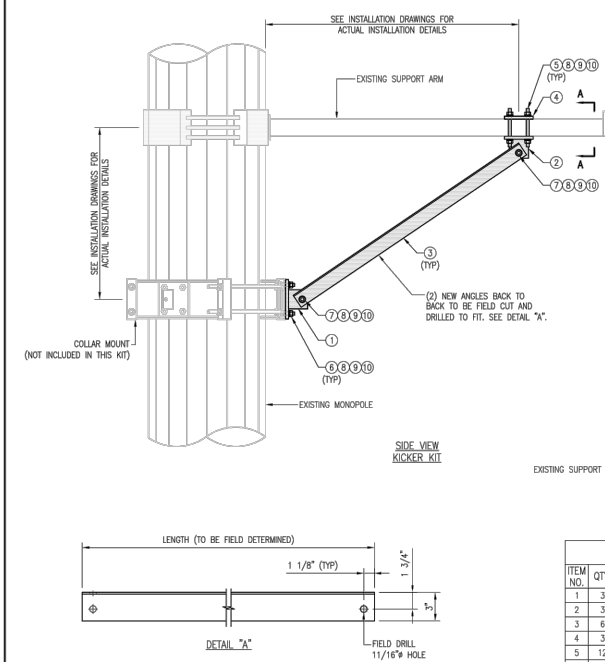
1 MOUNT ANALYSIS

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-603	REVISION: 0
-------------------------------	-----------------------

NOTE: THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.

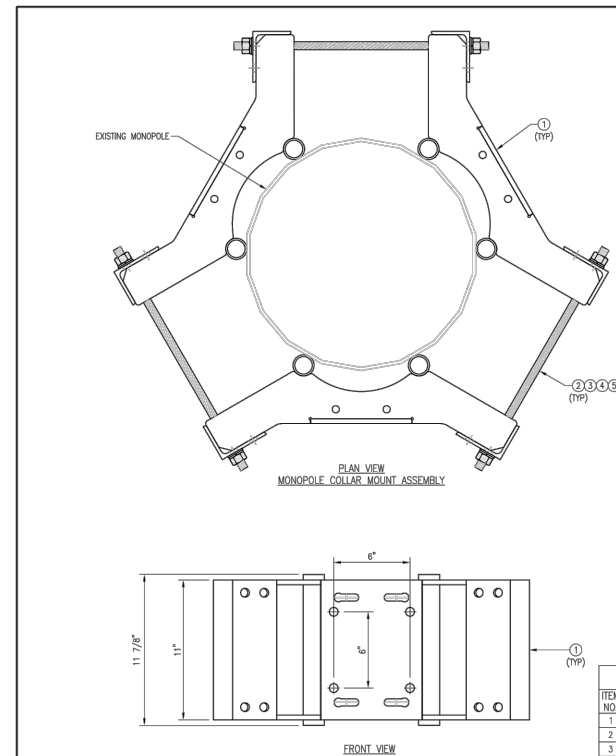


NOTES:
 1. ALL HOLES ARE 11/16\"/>

VZWSMART-PLK5 (KICKER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXXX	BRACKET WELDMENT A36	PLK5-F3	43.8
2	3	BRKW-XXXX	BRACKET WELDMENT A36	PLK5-F2	35.7
3	6	L331875-8	L 3\"/>		

SHEET TITLE:	
VZWSMART-PLK5	KICKER KIT
SHEET NUMBER:	VZWSMART-PLK5
REV #:	0

VZW
 SMART Tool
 Vendor
 verizon



NOTES:
 1. FIT 12\"/>

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8\"/>		

VZW
 SMART Tool
 Vendor
 verizon

SHEET TITLE:	
VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY
SHEET NUMBER:	VZWSMART-PLK7
REV #:	0

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-604

REVISION:
 0

EXHIBIT 2





Town of Colchester, CT

Property Report

Map Block Lot

4W-13/014-000

PID 2914

Building # 1

Section # 1

Account

L0208000

Property Information

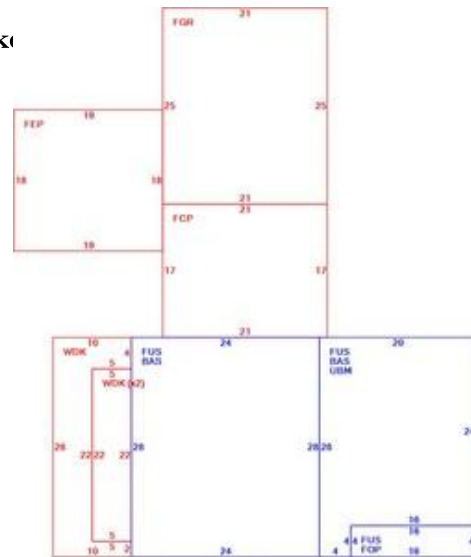
Property Location	856 MIDDLETOWN RD
Owner	HANNAH SARAH + SEAN
Co-Owner	na
Mailing Address	856 MIDDLETOWN RD COLCHESTER CT 06415
Land Use	1010 Single Fam
Land Class	R
Zoning Code	RU
Census Tract	

Neighborhood	
Acreage	26.5
Utilities	UNKNOWN
Lot Setting/Desc	UNKNOWN UNKNOWN
Additional Info	

Photo



Sk



Primary Construction Details

Year Built	1977
Stories	2
Building Style	Colonial
Building Use	Residential
Building Condition	
Interior Floors 1	Carpet
Interior Floors 2	NA
Total Rooms	6
Basement Garages	
Occupancy	1.00
Building Grade	

Bedrooms	4 Bedrooms
Full Bathrooms	2
Half Bathrooms	0
Extra Fixtures	2
Bath Style	
Kitchen Style	
Roof Style	Gable
Roof Cover	Asphalt
AC Type	Central
Fireplaces	0

Exterior Walls	Vinyl Siding
Exterior Walls 2	NA
Interior Walls	Drywall
Interior Walls 2	NA
Heating Type	Hot Water
Heating Fuel	Oil
Sq. Ft. Basement	
Fin BSMT Quality	
Extra Kitchens	



Town of Colchester, CT

Property Report

Map Block Lot 4W-13/014-000

PID 2914

Building # 1 Section # 1

Account L0208000

Valuation Summary (Assessed value = 70% of Appraised Value)

Sub Areas

Table with 6 columns: Item, Appraised, Assessed, Subarea Type, Gross Area (sq ft), Living Area (sq ft). Rows include Buildings, Extras, Improvements, Outbuildings, Land, and Total.

Outbuilding and Extra Features

Table with 2 columns: Type, Description. Rows include Garage, Fpl 2ST Chim, Shed Frame.

Table with 3 columns: Subarea Type, Gross Area (sq ft), Living Area (sq ft). Rows include Basement, Unfinished, Wood Deck, and Total Area.

Sales History

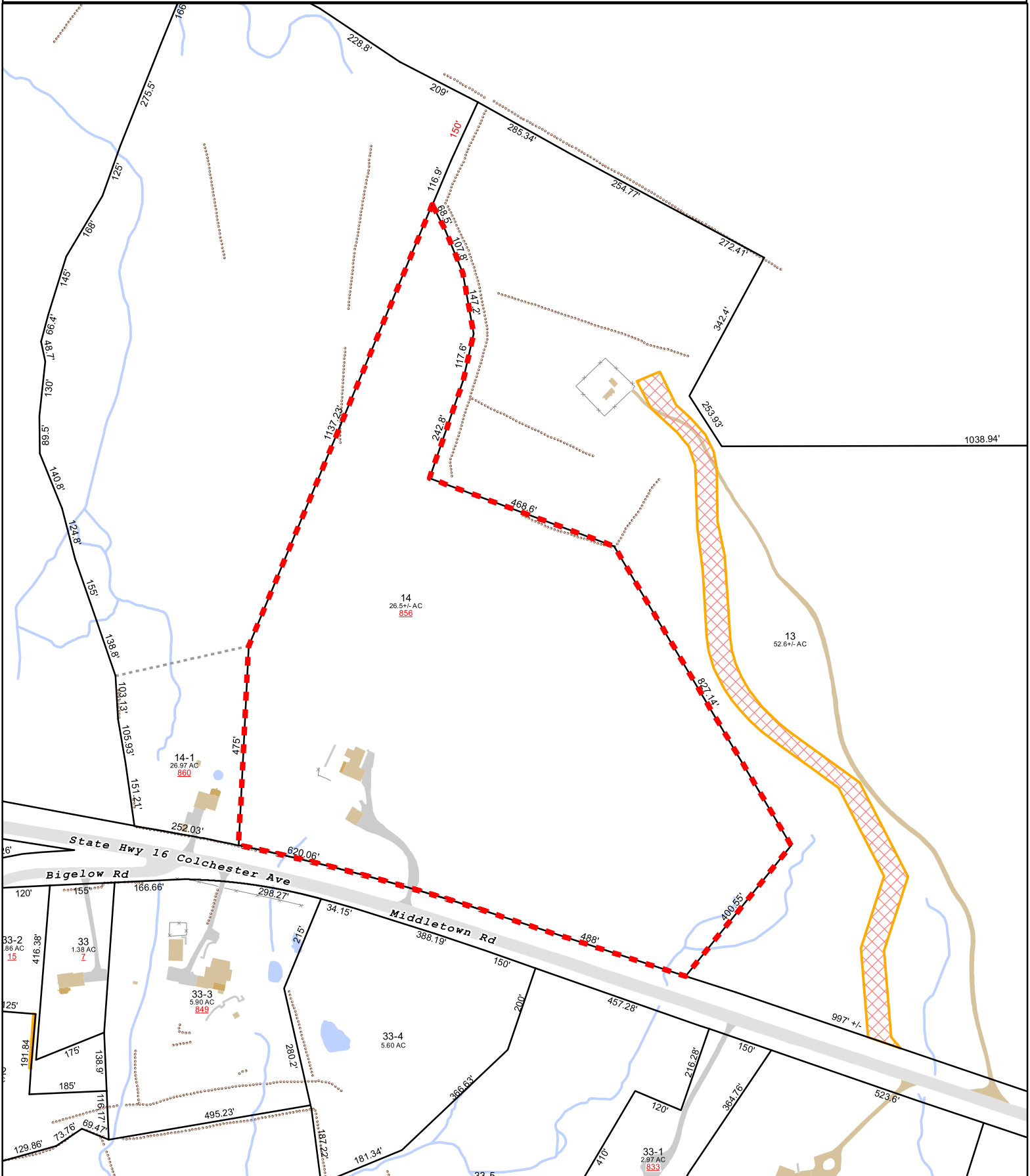
Table with 4 columns: Owner of Record, Book/ Page, Sale Date, Sale Price. Rows list owners like HANNAH SARAH + SEAN, MILAZZO MICHAEL P JR + LYNNE, etc.



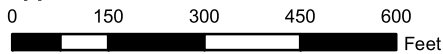
Town of Colchester, Connecticut - Assessment Parcel Map

Parcel: 4W-13-014-000

Address: 856 MIDDLETOWN RD



Approximate Scale: 1 inch = 300 feet



Map Produced: April 2023 / Grand List: 2022

Disclaimer: This map is for informational purposes only. All information is subject to verification by any user. The Town of Colchester and its mapping contractors assume no legal responsibility for the information contained herein.

EXHIBIT 3





AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 179 ft Monopole
ATC Asset Name : COLCHESTER SOUTH CT
ATC Asset Number : 411179
Engineering Number : 14539900_C3_03
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : COLCHESTER SOUTH CT
Carrier Site Number : 5000121576
Site Location : 856 Middletown Road
Colchester, CT 06415-2309
41.5517° N, 72.4258° W
County : New London
Date : February 16, 2024
Max Usage : 60%
Analysis Result : Pass

Created By:

Taylor Kellner
Structural Engineer I



COA: PEC.0001553



Table of Contents

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

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 179 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	EI project# 11294, dated November 3, 2003
Foundation:	EI project# 11294, dated October 30, 2003
Geotechnical:	CHA project# 11869.1003.1502, dated September 20, 2002

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:	121 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.21$, $S_1 = 0.06$
Site Class:	D - Stiff Soil - Default

Conclusion

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

If you have any questions or require additional information, please 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	59.5%	1.2D + 1.0W	Pass
Serviceability Usage	41.2%	1.0D + 1.0W	Pass
Base Plate @ 0.0 ft	51.2%	Rods	Pass
Mat & Pier	55.9%	Flexure [Steel (Pier)]	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	3,456.3	59.1	26.9

**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
180.0	1	Raycap RVZDC-6627-PF-48	(2) 1 1/4" Hybriflex Cable (18) 1 5/8" Coax
	3	Samsung B2/B66A RRH ORAN (RF 4439d-25A)	
	3	Samsung MT6413-77A	
	3	Samsung RF4461d-13A	
	6	Amphenol Antel LPA-80080-4CF-EDIN-0	
	6	JMA Wireless MX06FRO660-03	
179.0	1	Platform with Handrails	-

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
160.0	1	Raycap DC6-48-60-0-8C-EV	(1) 0.33" (8.7mm) Fiber (1) 0.39" (10mm) Fiber Trunk (8) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (2) 2" conduit (1) 3" conduit (3) 3/8" (0.38"- 9.5mm) RET Control Cable	AT&T MOBILITY
	1	Raycap DC6-48-60-18-8C		
	1	Raycap DC6-48-60-18-8F(32.8 lbs)		
	2	Kathrein Scala 80010964		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14		
	3	Ericsson RRUS 8843 B2, B66A		
	3	Sector Frame		
	3	Kathrein Scala Smart Bias Tee		
	3	Powerwave Allgon 7770.00		
	4	Kathrein Scala 80010966		
6	Powerwave Allgon LGP21901			
155.7	6	Powerwave Allgon LGP21401	-	AT&T MOBILITY
145.0	1	Site Pro 1 RMQP-4096-HK	-	-
	1	Mount Reinforcement	(3) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Commscope VV-65A-R1B		
	3	Ericsson 4460 BAND 2/25		
	3	Ericsson 4480 BAND 71		
	3	Ericsson AIR 6419 B41		
	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: 121 mph	Ice Wind: 50 mph w/ 1" ice	Service Wind: 60 mph
Risk Category: II	Exposure: B	S _s : 0.21 S _i : 0.056
Topo Category: 1	Topo Factor: Method 1	Topo Feature:
Structure Height: 179 ft	Base Elevation: 0.00 ft	Structure Type: Taper
Base Diameter: 56.5 in	Base Rotation: 0°	Taper: 0.2030 (in/ft)

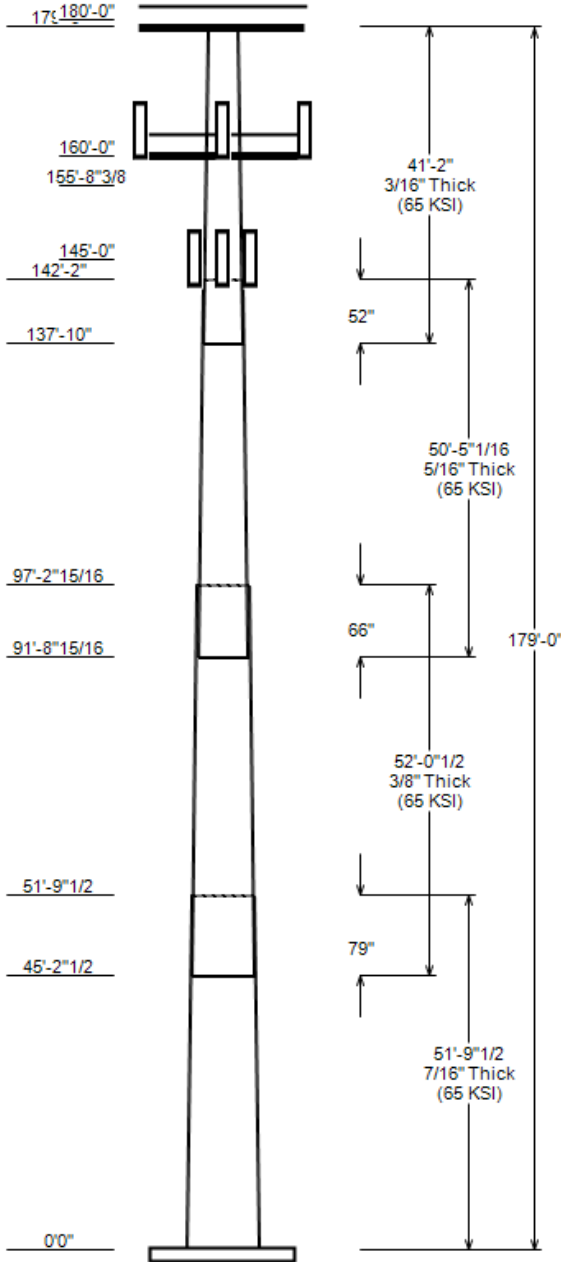
POLE SECTION PROPERTIES

Section	Length (ft)	Flat Diameter (in)		Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
		Top	Bottom					
1	51.790	46.01	56.50	0.438		0.000	18 Sides	65
2	52.040	37.56	48.10	0.375	Slip Joint	79.000	18 Sides	65
3	50.420	29.08	39.30	0.312	Slip Joint	66.000	18 Sides	65
4	41.167	22.00	30.34	0.188	Slip Joint	52.000	18 Sides	65

DISCRETE APPURTENANCE

LINEAR APPURTENANCE

Elev (ft)	Description	Elev To (ft)	Description
180.0	(3) Samsung B2/B66A RRH ORAN (RF 4	180.0	(18) 1 5/8" Coax
180.0	(3) Samsung RF4461d-13A	180.0	(2) 1 1/4" Hybriflex Cable
180.0	(1) Raycap RVZDC-6627-PF-48	160.0	(3) 3/8" (0.38"- 9.5mm) RET Control Cabl
180.0	(3) Samsung MT6413-77A	160.0	(1) 3" conduit
180.0	(6) Amphenol Antel LPA-80080-4CF-E	160.0	(2) 2" conduit
180.0	(6) JMA Wireless MX06FRO660-03	160.0	(12) 1 5/8" Coax
179.0	(1) Generic Flat Platform with Han	160.0	(8) 0.78" (19.7mm) 8 AWG 6
160.0	(3) Kathrein Scala Smart Bias Tee	160.0	(1) 0.39" (10mm) Fiber Trunk
160.0	(6) Powerwave Allgon LGP21901	160.0	(1) 0.33" (8.7mm) Fiber
160.0	(1) Raycap DC6-48-60-0-8C-EV	145.0	(3) 1.99" (50.7mm) Hybrid
160.0	(1) Raycap DC6-48-60-18-8F(32.8 lb		
160.0	(3) Ericsson RRUS 8843 B2, B66A		
160.0	(3) Ericsson RRUS 4478 B14		
160.0	(3) Ericsson RRUS 4449 B5, B12		
160.0	(1) Raycap DC6-48-60-18-8C		
160.0	(3) Powerwave Allgon 7770.00		
160.0	(2) Kathrein Scala 80010964		
160.0	(3) Generic Round Sector Frame		
160.0	(4) Kathrein Scala 80010966		
155.7	(6) Powerwave Allgon LGP21401		
145.0	(3) Ericsson 4460 BAND 2/25		
145.0	(3) Ericsson 4480 BAND 71		
145.0	(3) Ericsson AIR 6419 B41		
145.0	(3) Commscope VV-65A-R1B		
145.0	(1) Generic Mount Reinforcement		
145.0	(3) RFS APXVAARR24_43-U-NA20		
145.0	(1) Site Pro 1 RMQP-4096-HK		



GLOBAL BASE REACTIONS

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	3456.29	59.13	26.90
0.9D + 1.0W	3399.24	44.34	26.88
1.2D + 1.0Di + 1.0Wi	899.61	76.54	7.09
1.2D + 1.0Ev + 1.0Eh	222.34	59.42	1.48
0.9D - 1.0Ev + 1.0Eh	217.51	40.82	1.48
1.0D + 1.0W	753.05	49.31	5.91

ANALYSIS PARAMETERS

Location:	New London County,CT	Height:	179 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	56.50 in
Manufacturer:	EEL	Top Diameter:	22.00 in
K_d (non-service):	0.95	Taper:	0.2030 in/ft
K_e:	0.98	Rotation:	0.000°

ICE & WIND PARAMETERS

Risk Category:	II	Design Wind Speed:	121 mph
Exposure Category:	B	Design Wind Speed w/ Ice:	50 mph
Topo Factor Procedure:	Method 1	Design Ice Thickness:	1.00 in
Topographic Category:	1	Service Wind Speed:	60 mph
Crest Height:	0 ft	HMSL:	561.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):	3.02
T_L (sec):	6	P:	1
S_s:	0.210	S₁:	0.056
F_a:	1.600	F_v:	2.400
S_{ds}:	0.224	S_{d1}:	0.090
		C_s:	0.030
		C_s Max:	0.030
		C_s Min:	0.030

LOAD CASES

1.2D + 1.0W	121 mph Wind with No Ice
0.9D + 1.0W	121 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph Wind with 1" Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Section	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Joint Len (in)	Weight (lb)	Bottom						Top						
							Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper (in/ft)
1-18	51.79	0.4375	65		0.00	12,436	56.50	0.000	77.85	30,912.9	21.36	129.14	46.01	51.79	63.28	16,606.	17.13	105.17	0.2025
2-18	52.04	0.3750	65	Slip	79.00	8,947	48.10	45.210	56.80	16,341.1	21.20	128.25	37.56	97.25	44.25	7,729.6	16.25	100.15	0.2025
3-18	50.42	0.3125	65	Slip	66.00	5,765	39.30	91.750	38.66	7,423.6	20.76	125.74	29.08	142.17	28.54	2,984.8	15.00	93.07	0.2025
4-18	41.17	0.1875	65	Slip	52.00	2,166	30.34	137.833	17.94	2,060.6	27.12	161.80	22.00	179.00	12.98	780.4	19.28	117.34	0.2025
Total Shaft Weight						29,314													

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
180.00	Amphenol Antel LPA-80080-4CF-E	6	0.75	1.800	12.00	5.399	0.64	90.37	6.658	0.64
180.00	Samsung MT6413-77A	3	0.80	0.000	57.30	3.805	0.61	114.97	4.707	0.61
180.00	Raycap RVZDC-6627-PF-48	1	0.80	0.000	32.00	3.781	1.00	106.48	4.679	1.00
180.00	Samsung RF4461d-13A	3	0.80	0.000	79.10	1.875	0.50	122.89	2.488	0.50
180.00	Samsung B2/B66A RRH ORAN (RF 4	3	0.80	0.000	74.70	1.875	0.50	118.10	2.486	0.50
180.00	JMA Wireless MX06FRO660-03	6	0.75	0.000	60.00	9.872	0.71	222.84	11.736	0.71
179.00	Generic Flat Platform with Han	1	1.00	0.000	2500.00	42.400	1.00	3706.55	56.644	1.00
160.00	Ericsson RRUS 4478 B14	3	0.80	1.900	59.90	1.842	0.50	97.03	2.444	0.50
160.00	Kathrein Scala 80010966	4	0.80	0.100	114.60	17.363	0.63	330.21	19.840	0.63
160.00	Generic Round Sector Frame	3	0.75	0.000	700.00	14.400	0.67	1354.88	25.514	0.67
160.00	Kathrein Scala 80010964	2	0.80	0.100	83.80	9.997	0.62	221.15	11.582	0.62
160.00	Powerwave Allgon 7770.00	3	0.80	0.100	35.00	5.508	0.65	111.33	6.935	0.65
160.00	Raycap DC6-48-60-18-8C	1	0.80	1.500	16.00	2.030	0.50	55.09	2.540	0.50
160.00	Ericsson RRUS 4449 B5, B12	3	0.80	1.900	71.00	1.969	0.50	114.27	2.595	0.50
160.00	Ericsson RRUS 8843 B2, B66A	3	0.80	1.900	72.00	1.639	0.50	113.16	2.206	0.50
160.00	Kathrein Scala Smart Bias Tee	3	0.80	0.000	3.30	0.080	0.50	5.51	0.220	0.50
160.00	Powerwave Allgon LGP21901	6	0.80	0.000	5.50	0.200	0.50	10.65	0.414	0.50
160.00	Raycap DC6-48-60-0-8C-EV	1	0.80	0.600	16.00	1.010	1.00	46.27	1.387	1.00
160.00	Raycap DC6-48-60-18-8F(32.8 lb	1	0.80	1.400	32.80	1.470	1.00	74.23	1.939	1.00
155.70	Powerwave Allgon LGP21401	6	0.80	0.000	14.10	1.104	0.50	30.83	1.582	0.50
145.00	RFS APXVAARR24_43-U-NA20	3	0.75	0.000	127.90	20.243	0.63	389.02	22.710	0.63
145.00	Site Pro 1 RMQP-4096-HK	1	1.00	0.000	2669.00	27.100	1.00	3905.71	39.657	1.00
145.00	Ericsson 4460 BAND 2/25	3	0.75	0.000	109.00	2.564	0.67	167.79	3.265	0.67
145.00	Ericsson 4480 BAND 71	3	0.75	0.000	81.00	2.878	0.67	131.63	3.625	0.67
145.00	Ericsson AIR 6419 B41	3	0.75	0.000	68.50	5.600	0.63	148.87	6.653	0.63
145.00	Commscope VV-65A-R1B	3	0.75	0.000	24.70	5.887	0.63	102.45	7.295	0.63
145.00	Generic Mount Reinforcement	1	1.00	0.000	200.00	7.500	1.00	328.72	12.480	1.00
Totals	Row Count: 27	79			11,331.60			21,390.03		

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	180.00	18	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	180.00	2	1 1/4" Hybriflex Cabl	1.54	1	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	160.00	12	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	8	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	3	3/8" (0.38"- 9.5mm) R	0.38	0.23	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	2	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	1	3" conduit	3.5	7.58	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	1	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	160.00	1	0.33" (8.7mm) Fiber	0.33	0.05	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	145.00	3	1.99" (50.7mm) Hybrid	1.99	1.9	N	0	0	0	0	0	N	T-MOBILE

SEGMENT PROPERTIES

Seg Top	Description	(Max Length: 5 ft)	Thick	Flat Dia	Area	Ix	W/t	D/t	F'y	S	Z	Weight
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Elev (ft)		(in)	(in)	(in ²)	(in ⁴)	Ratio	Ratio	(ksi)	(in ³)	(in ³)	(lb)
0.00		0.4375	56.500	77.847	30,912.90	21.36	129.14	76.3	1077.6	0.0	0.0
5.00		0.4375	55.487	76.441	29,268.00	20.95	126.83	76.8	1038.9	0.0	1,312.5
10.00		0.4375	54.475	75.035	27,682.50	20.54	124.51	77.2	1000.9	0.0	1,288.6
15.00		0.4375	53.462	73.629	26,155.40	20.14	122.20	77.7	963.6	0.0	1,264.7
20.00		0.4375	52.450	72.223	24,685.40	19.73	119.89	78.2	927.0	0.0	1,240.8
25.00		0.4375	51.437	70.817	23,271.60	19.32	117.57	78.7	891.1	0.0	1,216.8
30.00		0.4375	50.425	69.411	21,912.80	18.91	115.26	79.2	855.9	0.0	1,192.9
35.00		0.4375	49.412	68.005	20,608.00	18.50	112.94	79.6	821.5	0.0	1,169.0
40.00		0.4375	48.400	66.599	19,356.10	18.10	110.63	80.1	787.7	0.0	1,145.1
45.00		0.4375	47.387	65.193	18,155.90	17.69	108.31	80.6	754.6	0.0	1,121.1
45.21	Bot - Section 2	0.4375	47.345	65.135	18,107.30	17.67	108.22	80.6	753.3	0.0	45.8
50.00		0.4375	46.375	63.787	17,006.30	17.28	106.00	81.1	722.3	0.0	1,968.4
51.79	Top - Section 1	0.3750	46.762	55.210	15,009.40	20.58	124.70	77.2	632.2	0.0	724.6
55.00		0.3750	46.112	54.436	14,387.20	20.27	122.97	77.6	614.5	0.0	598.8
60.00		0.3750	45.099	53.231	13,452.70	19.80	120.27	78.1	587.5	0.0	915.9
65.00		0.3750	44.087	52.026	12,559.50	19.32	117.56	78.7	561.1	0.0	895.4
70.00		0.3750	43.074	50.821	11,706.80	18.84	114.86	79.2	535.3	0.0	874.9
75.00		0.3750	42.062	49.616	10,893.60	18.37	112.16	79.8	510.1	0.0	854.4
80.00		0.3750	41.049	48.411	10,118.90	17.89	109.46	80.4	485.5	0.0	833.9
85.00		0.3750	40.037	47.206	9,381.80	17.41	106.76	80.9	461.5	0.0	813.4
90.00		0.3750	39.024	46.000	8,681.50	16.94	104.06	81.5	438.2	0.0	792.9
91.75	Bot - Section 3	0.3750	38.670	45.579	8,445.30	16.77	103.12	81.7	430.1	0.0	272.2
95.00		0.3750	38.012	44.795	8,016.90	16.46	101.36	82	415.4	0.0	924.7
97.25	Top - Section 2	0.3125	38.182	37.560	6,805.30	20.13	122.18	77.7	351.1	0.0	629.3
100.00		0.3125	37.624	37.007	6,509.10	19.82	120.40	78.1	340.8	0.0	349.3
105.00		0.3125	36.611	36.003	5,993.40	19.25	117.16	78.8	322.4	0.0	621.1
110.00		0.3125	35.599	34.998	5,505.70	18.68	113.92	79.4	304.6	0.0	604.0
115.00		0.3125	34.586	33.994	5,045.30	18.10	110.68	80.1	287.3	0.0	586.9
120.00		0.3125	33.574	32.990	4,611.20	17.53	107.44	80.8	270.5	0.0	569.8
125.00		0.3125	32.561	31.986	4,202.70	16.96	104.20	81.5	254.2	0.0	552.7
130.00		0.3125	31.549	30.981	3,819.20	16.39	100.96	82.1	238.4	0.0	535.7
135.00		0.3125	30.536	29.977	3,459.70	15.82	97.72	82.6	223.2	0.0	518.6
137.83	Bot - Section 4	0.3125	29.962	29.408	3,266.40	15.50	95.88	82.6	214.7	0.0	286.3
140.00		0.3125	29.524	28.973	3,123.50	15.25	94.48	82.6	208.4	0.0	346.5
142.17	Top - Section 3	0.1875	29.460	17.420	1,885.90	26.29	157.12	70.5	126.1	0.0	341.4
145.00		0.1875	28.886	17.079	1,777.20	25.75	154.06	71.1	121.2	0.0	166.3
150.00		0.1875	27.874	16.476	1,595.60	24.80	148.66	72.2	112.7	0.0	285.4
155.00		0.1875	26.861	15.873	1,426.90	23.85	143.26	73.3	104.6	0.0	275.2
155.70		0.1875	26.719	15.789	1,404.20	23.72	142.50	73.5	103.5	0.0	37.7
160.00		0.1875	25.848	15.271	1,270.50	22.90	137.86	74.5	96.8	0.0	227.2
165.00		0.1875	24.836	14.668	1,125.90	21.95	132.46	75.6	89.3	0.0	254.7
170.00		0.1875	23.823	14.066	992.80	20.99	127.06	76.7	82.1	0.0	244.4
175.00		0.1875	22.811	13.463	870.60	20.04	121.66	77.8	75.2	0.0	234.2
179.00		0.1875	22.001	12.981	780.40	19.28	117.34	78.7	69.9	0.0	180.0
Total:											29,313.5

CALCULATED FORCES

Load Case: 1.2D + 1.0W 121 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	-59.13	-26.90	0.00	-3,456.3	0.00	3,456.29	5,344.11	1,366.21	6,918.10	6,164.89	0	0	0.572
5.00	-57.17	-26.59	0.00	-3,321.8	0.00	3,321.81	5,280.61	1,341.54	6,670.49	5,980.77	0.08	-0.16	0.567
10.00	-55.24	-26.28	0.00	-3,188.9	0.00	3,188.86	5,215.90	1,316.86	6,427.39	5,797.96	0.33	-0.31	0.561
15.00	-53.33	-25.98	0.00	-3,057.4	0.00	3,057.44	5,149.97	1,292.19	6,188.81	5,616.54	0.75	-0.47	0.555
20.00	-51.46	-25.67	0.00	-2,927.6	0.00	2,927.55	5,082.83	1,267.51	5,954.73	5,436.59	1.33	-0.64	0.549
25.00	-49.62	-25.37	0.00	-2,799.2	0.00	2,799.18	5,014.47	1,242.84	5,725.17	5,258.19	2.09	-0.8	0.543
30.00	-47.80	-25.06	0.00	-2,672.3	0.00	2,672.34	4,944.89	1,218.16	5,500.12	5,081.41	3.02	-0.97	0.536
35.00	-46.02	-24.74	0.00	-2,547.0	0.00	2,547.05	4,874.11	1,193.49	5,279.58	4,906.34	4.12	-1.14	0.529
40.00	-44.26	-24.40	0.00	-2,423.4	0.00	2,423.38	4,802.10	1,168.81	5,063.56	4,733.03	5.41	-1.31	0.522
45.00	-42.57	-24.19	0.00	-2,301.4	0.00	2,301.40	4,728.89	1,144.14	4,852.05	4,561.58	6.87	-1.48	0.514

CALCULATED FORCES

45.21	-42.47	-24.03	0.00	-2,296.4	0.00	2,296.40	4,725.83	1,143.12	4,843.40	4,554.53	6.94	-1.49	0.514
50.00	-39.77	-23.74	0.00	-2,181.2	0.00	2,181.20	4,654.45	1,119.46	4,645.05	4,392.06	8.52	-1.66	0.506
51.79	-38.75	-23.55	0.00	-2,138.7	0.00	2,138.70	3,835.91	968.94	4,059.68	3,660.34	9.16	-1.72	0.595
55.00	-37.78	-23.25	0.00	-2,063.1	0.00	2,063.11	3,799.77	955.36	3,946.71	3,574.64	10.36	-1.84	0.588
60.00	-36.30	-22.87	0.00	-1,946.9	0.00	1,946.87	3,742.48	934.21	3,773.91	3,442.16	12.39	-2.04	0.576
65.00	-34.85	-22.49	0.00	-1,832.5	0.00	1,832.51	3,683.97	913.06	3,604.99	3,311.00	14.63	-2.24	0.564
70.00	-33.43	-22.09	0.00	-1,720.1	0.00	1,720.09	3,624.25	891.91	3,439.93	3,181.22	17.08	-2.44	0.551
75.00	-32.03	-21.69	0.00	-1,609.6	0.00	1,609.63	3,563.31	870.76	3,278.74	3,052.92	19.75	-2.64	0.537
80.00	-30.66	-21.29	0.00	-1,501.2	0.00	1,501.17	3,501.15	849.61	3,121.42	2,926.16	22.62	-2.85	0.522
85.00	-29.32	-20.88	0.00	-1,394.7	0.00	1,394.73	3,437.79	828.46	2,967.96	2,801.02	25.71	-3.05	0.507
90.00	-28.02	-20.58	0.00	-1,290.3	0.00	1,290.33	3,373.20	807.31	2,818.38	2,677.58	29.01	-3.25	0.491
91.75	-27.56	-20.38	0.00	-1,254.4	0.00	1,254.39	3,350.36	799.92	2,767.03	2,634.87	30.21	-3.33	0.485
95.00	-26.22	-20.11	0.00	-1,188.1	0.00	1,188.09	3,307.41	786.16	2,672.66	2,555.91	32.52	-3.46	0.473
97.25	-25.31	-19.88	0.00	-1,142.9	0.00	1,142.92	2,627.26	659.18	2,254.70	2,046.31	34.17	-3.55	0.569
100.00	-24.68	-19.57	0.00	-1,088.2	0.00	1,088.19	2,600.90	649.47	2,188.81	1,995.71	36.25	-3.66	0.556
105.00	-23.57	-19.16	0.00	-990.3	0.00	990.32	2,552.09	631.85	2,071.63	1,904.68	40.21	-3.89	0.530
110.00	-22.49	-18.75	0.00	-894.5	0.00	894.51	2,502.07	614.22	1,957.68	1,814.81	44.41	-4.12	0.503
115.00	-21.43	-18.34	0.00	-800.8	0.00	800.76	2,450.83	596.60	1,846.96	1,726.19	48.83	-4.33	0.474
120.00	-20.40	-17.92	0.00	-709.1	0.00	709.09	2,398.38	578.97	1,739.46	1,638.89	53.48	-4.55	0.442
125.00	-19.40	-17.50	0.00	-619.5	0.00	619.49	2,344.71	561.35	1,635.18	1,552.98	58.35	-4.75	0.408
130.00	-18.42	-17.09	0.00	-532.0	0.00	531.98	2,289.83	543.72	1,534.12	1,468.56	63.43	-4.95	0.371
135.00	-17.47	-16.74	0.00	-446.6	0.00	446.56	2,227.14	526.10	1,436.29	1,381.59	68.7	-5.13	0.332
137.83	-16.95	-16.52	0.00	-399.1	0.00	399.13	2,184.86	516.11	1,382.28	1,329.37	71.77	-5.23	0.309
140.00	-16.39	-16.33	0.00	-363.3	0.00	363.33	2,152.53	508.47	1,341.68	1,290.12	74.16	-5.3	0.290
142.17	-15.84	-16.11	0.00	-328.0	0.00	327.95	1,104.91	305.72	808.28	666.44	76.58	-5.37	0.509
145.00	-10.91	-11.66	0.00	-282.3	0.00	282.31	1,093.00	299.73	776.91	646.26	79.78	-5.45	0.448
150.00	-10.29	-11.27	0.00	-224.0	0.00	224.02	1,071.05	289.15	723.06	610.79	85.6	-5.65	0.378
155.00	-9.68	-11.02	0.00	-167.7	0.00	167.69	1,047.88	278.58	671.14	575.57	91.61	-5.83	0.302
155.70	-9.51	-10.72	0.00	-160.0	0.00	159.98	1,044.53	277.10	664.03	570.67	92.46	-5.85	0.291
160.00	-5.17	-6.25	0.00	-113.0	0.00	112.96	1,023.49	268.00	621.16	540.69	97.78	-5.97	0.215
165.00	-4.79	-5.88	0.00	-81.7	0.00	81.73	997.89	257.43	573.11	506.21	104.08	-6.08	0.167
170.00	-4.43	-5.52	0.00	-52.3	0.00	52.34	971.07	246.85	527.00	472.22	110.48	-6.16	0.116
175.00	-4.07	-5.20	0.00	-24.8	0.00	24.75	943.04	236.28	482.82	438.79	116.96	-6.22	0.061
179.00	0.00	-4.72	0.00	-4.0	0.00	3.96	919.74	227.82	448.86	412.50	122.17	-6.24	0.010

CALCULATED FORCES

Load Case: 0.9D + 1.0W 121 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	-44.34	-26.88	0.00	-3,399.2	0.00	3,399.24	5,344.11	1,366.21	6,918.10	6,164.89	0	0	0.560
5.00	-42.85	-26.53	0.00	-3,264.9	0.00	3,264.87	5,280.61	1,341.54	6,670.49	5,980.77	0.08	-0.15	0.554
10.00	-41.39	-26.18	0.00	-3,132.2	0.00	3,132.23	5,215.90	1,316.86	6,427.39	5,797.96	0.33	-0.31	0.549
15.00	-39.94	-25.84	0.00	-3,001.3	0.00	3,001.31	5,149.97	1,292.19	6,188.81	5,616.54	0.73	-0.47	0.543
20.00	-38.52	-25.50	0.00	-2,872.1	0.00	2,872.10	5,082.83	1,267.51	5,954.73	5,436.59	1.31	-0.63	0.536
25.00	-37.12	-25.16	0.00	-2,744.6	0.00	2,744.59	5,014.47	1,242.84	5,725.17	5,258.19	2.05	-0.79	0.530
30.00	-35.75	-24.82	0.00	-2,618.8	0.00	2,618.77	4,944.89	1,218.16	5,500.12	5,081.41	2.96	-0.95	0.523
35.00	-34.40	-24.47	0.00	-2,494.6	0.00	2,494.65	4,874.11	1,193.49	5,279.58	4,906.34	4.05	-1.12	0.516
40.00	-33.07	-24.11	0.00	-2,372.3	0.00	2,372.29	4,802.10	1,168.81	5,063.56	4,733.03	5.31	-1.29	0.509
45.00	-31.79	-23.90	0.00	-2,251.8	0.00	2,251.76	4,728.89	1,144.14	4,852.05	4,561.58	6.75	-1.46	0.501
45.21	-31.71	-23.72	0.00	-2,246.8	0.00	2,246.82	4,725.83	1,143.12	4,843.40	4,554.53	6.81	-1.46	0.500
50.00	-29.67	-23.43	0.00	-2,133.1	0.00	2,133.12	4,654.45	1,119.46	4,645.05	4,392.06	8.36	-1.63	0.492
51.79	-28.91	-23.22	0.00	-2,091.2	0.00	2,091.19	3,835.91	968.94	4,059.68	3,660.34	8.99	-1.69	0.579
55.00	-28.16	-22.90	0.00	-2,016.6	0.00	2,016.65	3,799.77	955.36	3,946.71	3,574.64	10.16	-1.8	0.572
60.00	-27.04	-22.50	0.00	-1,902.1	0.00	1,902.13	3,742.48	934.21	3,773.91	3,442.16	12.16	-2	0.560
65.00	-25.94	-22.10	0.00	-1,789.6	0.00	1,789.61	3,683.97	913.06	3,604.99	3,311.00	14.35	-2.19	0.548
70.00	-24.86	-21.69	0.00	-1,679.1	0.00	1,679.11	3,624.25	891.91	3,439.93	3,181.22	16.75	-2.39	0.535
75.00	-23.80	-21.27	0.00	-1,570.7	0.00	1,570.68	3,563.31	870.76	3,278.74	3,052.92	19.36	-2.59	0.522
80.00	-22.77	-20.86	0.00	-1,464.3	0.00	1,464.31	3,501.15	849.61	3,121.42	2,926.16	22.18	-2.79	0.508
85.00	-21.75	-20.44	0.00	-1,360.0	0.00	1,360.03	3,437.79	828.46	2,967.96	2,801.02	25.2	-2.98	0.492
90.00	-20.77	-20.13	0.00	-1,257.9	0.00	1,257.86	3,373.20	807.31	2,818.38	2,677.58	28.43	-3.18	0.477
91.75	-20.42	-19.93	0.00	-1,222.7	0.00	1,222.69	3,350.36	799.92	2,767.03	2,634.87	29.61	-3.25	0.471
95.00	-19.41	-19.66	0.00	-1,157.9	0.00	1,157.86	3,307.41	786.16	2,672.66	2,555.91	31.87	-3.38	0.460
97.25	-18.72	-19.43	0.00	-1,113.7	0.00	1,113.69	2,627.26	659.18	2,254.70	2,046.31	33.48	-3.47	0.552
100.00	-18.24	-19.12	0.00	-1,060.2	0.00	1,060.18	2,600.90	649.47	2,188.81	1,995.71	35.52	-3.58	0.539
105.00	-17.40	-18.70	0.00	-964.6	0.00	964.58	2,552.09	631.85	2,071.63	1,904.68	39.39	-3.81	0.514
110.00	-16.58	-18.28	0.00	-871.1	0.00	871.07	2,502.07	614.22	1,957.68	1,814.81	43.49	-4.02	0.487
115.00	-15.79	-17.87	0.00	-779.7	0.00	779.66	2,450.83	596.60	1,846.96	1,726.19	47.81	-4.24	0.459
120.00	-15.01	-17.45	0.00	-690.3	0.00	690.33	2,398.38	578.97	1,739.46	1,638.89	52.36	-4.44	0.428
125.00	-14.25	-17.03	0.00	-603.1	0.00	603.08	2,344.71	561.35	1,635.18	1,552.98	57.11	-4.64	0.395
130.00	-13.51	-16.62	0.00	-517.9	0.00	517.91	2,289.83	543.72	1,534.12	1,468.56	62.07	-4.83	0.360
135.00	-12.80	-16.29	0.00	-434.8	0.00	434.81	2,227.14	526.10	1,436.29	1,381.59	67.23	-5.01	0.321
137.83	-12.40	-16.08	0.00	-388.7	0.00	388.66	2,184.86	516.11	1,382.28	1,329.37	70.23	-5.11	0.299
140.00	-11.98	-15.89	0.00	-353.8	0.00	353.83	2,152.53	508.47	1,341.68	1,290.12	72.56	-5.18	0.281
142.17	-11.57	-15.67	0.00	-319.4	0.00	319.41	1,104.91	305.72	808.28	666.44	74.92	-5.24	0.492
145.00	-7.95	-11.35	0.00	-275.0	0.00	275.00	1,093.00	299.73	776.91	646.26	78.05	-5.32	0.434
150.00	-7.49	-10.96	0.00	-218.2	0.00	218.25	1,071.05	289.15	723.06	610.79	83.73	-5.52	0.366
155.00	-7.03	-10.73	0.00	-163.4	0.00	163.43	1,047.88	278.58	671.14	575.57	89.6	-5.69	0.292
155.70	-6.91	-10.43	0.00	-155.9	0.00	155.92	1,044.53	277.10	664.03	570.67	90.43	-5.71	0.281
160.00	-3.74	-6.08	0.00	-110.1	0.00	110.14	1,023.49	268.00	621.16	540.69	95.62	-5.83	0.208
165.00	-3.46	-5.72	0.00	-79.7	0.00	79.72	997.89	257.43	573.11	506.21	101.78	-5.94	0.161
170.00	-3.20	-5.38	0.00	-51.1	0.00	51.10	971.07	246.85	527.00	472.22	108.03	-6.02	0.112
175.00	-2.94	-5.07	0.00	-24.2	0.00	24.22	943.04	236.28	482.82	438.79	114.35	-6.07	0.059
179.00	0.00	-4.72	0.00	-4.0	0.00	3.96	919.74	227.82	448.86	412.50	119.44	-6.09	0.010

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi													50 mph Wind with 1" Radial Ice		25 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	-76.54	-7.09	0.00	-899.6	0.00	899.61	5,344.11	1,366.21	6,918.10	6,164.89	0	0	0.160			
5.00	-74.37	-7.01	0.00	-864.2	0.00	864.18	5,280.61	1,341.54	6,670.49	5,980.77	0.02	-0.04	0.159			
10.00	-72.20	-6.92	0.00	-829.2	0.00	829.15	5,215.90	1,316.86	6,427.39	5,797.96	0.09	-0.08	0.157			
15.00	-70.05	-6.84	0.00	-794.5	0.00	794.53	5,149.97	1,292.19	6,188.81	5,616.54	0.19	-0.12	0.155			
20.00	-67.93	-6.76	0.00	-760.3	0.00	760.32	5,082.83	1,267.51	5,954.73	5,436.59	0.35	-0.17	0.153			
25.00	-65.83	-6.68	0.00	-726.5	0.00	726.51	5,014.47	1,242.84	5,725.17	5,258.19	0.54	-0.21	0.151			
30.00	-63.76	-6.60	0.00	-693.1	0.00	693.10	4,944.89	1,218.16	5,500.12	5,081.41	0.78	-0.25	0.149			
35.00	-61.73	-6.51	0.00	-660.1	0.00	660.12	4,874.11	1,193.49	5,279.58	4,906.34	1.07	-0.3	0.147			
40.00	-59.72	-6.42	0.00	-627.6	0.00	627.57	4,802.10	1,168.81	5,063.56	4,733.03	1.41	-0.34	0.145			
45.00	-57.74	-6.36	0.00	-595.5	0.00	595.48	4,728.89	1,144.14	4,852.05	4,561.58	1.79	-0.39	0.143			
45.21	-57.66	-6.32	0.00	-594.2	0.00	594.16	4,725.83	1,143.12	4,843.40	4,554.53	1.8	-0.39	0.143			
50.00	-54.69	-6.24	0.00	-563.9	0.00	563.88	4,654.45	1,119.46	4,645.05	4,392.06	2.21	-0.43	0.140			
51.79	-53.60	-6.19	0.00	-552.7	0.00	552.71	3,835.91	968.94	4,059.68	3,660.34	2.38	-0.45	0.165			
55.00	-52.47	-6.10	0.00	-532.8	0.00	532.85	3,799.77	955.36	3,946.71	3,574.64	2.69	-0.48	0.163			
60.00	-50.75	-6.00	0.00	-502.3	0.00	502.33	3,742.48	934.21	3,773.91	3,442.16	3.22	-0.53	0.160			
65.00	-49.05	-5.89	0.00	-472.3	0.00	472.33	3,683.97	913.06	3,604.99	3,311.00	3.8	-0.58	0.156			
70.00	-47.38	-5.79	0.00	-442.9	0.00	442.86	3,624.25	891.91	3,439.93	3,181.22	4.43	-0.63	0.152			
75.00	-45.75	-5.67	0.00	-413.9	0.00	413.93	3,563.31	870.76	3,278.74	3,052.92	5.12	-0.68	0.148			
80.00	-44.14	-5.56	0.00	-385.6	0.00	385.56	3,501.15	849.61	3,121.42	2,926.16	5.87	-0.74	0.144			
85.00	-42.56	-5.45	0.00	-357.8	0.00	357.75	3,437.79	828.46	2,967.96	2,801.02	6.67	-0.79	0.140			
90.00	-41.01	-5.36	0.00	-330.5	0.00	330.52	3,373.20	807.31	2,818.38	2,677.58	7.52	-0.84	0.136			
91.75	-40.48	-5.31	0.00	-321.2	0.00	321.15	3,350.36	799.92	2,767.03	2,634.87	7.83	-0.86	0.134			
95.00	-38.98	-5.23	0.00	-303.9	0.00	303.89	3,307.41	786.16	2,672.66	2,555.91	8.43	-0.89	0.131			
97.25	-37.96	-5.17	0.00	-292.1	0.00	292.14	2,627.26	659.18	2,254.70	2,046.31	8.86	-0.92	0.157			
100.00	-37.22	-5.08	0.00	-277.9	0.00	277.92	2,600.90	649.47	2,188.81	1,995.71	9.39	-0.95	0.154			
105.00	-35.89	-4.96	0.00	-252.5	0.00	252.51	2,552.09	631.85	2,071.63	1,904.68	10.42	-1	0.147			
110.00	-34.59	-4.85	0.00	-227.7	0.00	227.69	2,502.07	614.22	1,957.68	1,814.81	11.5	-1.06	0.139			
115.00	-33.31	-4.73	0.00	-203.4	0.00	203.45	2,450.83	596.60	1,846.96	1,726.19	12.64	-1.12	0.132			
120.00	-32.06	-4.61	0.00	-179.8	0.00	179.81	2,398.38	578.97	1,739.46	1,638.89	13.84	-1.17	0.123			
125.00	-30.84	-4.49	0.00	-156.8	0.00	156.75	2,344.71	561.35	1,635.18	1,552.98	15.09	-1.22	0.114			
130.00	-29.65	-4.37	0.00	-134.3	0.00	134.30	2,289.83	543.72	1,534.12	1,468.56	16.4	-1.27	0.104			
135.00	-28.48	-4.27	0.00	-112.5	0.00	112.46	2,227.14	526.10	1,436.29	1,381.59	17.76	-1.32	0.094			
137.83	-27.83	-4.20	0.00	-100.4	0.00	100.37	2,184.86	516.11	1,382.28	1,329.37	18.55	-1.34	0.088			
140.00	-27.18	-4.15	0.00	-91.3	0.00	91.26	2,152.53	508.47	1,341.68	1,290.12	19.16	-1.36	0.083			
142.17	-26.54	-4.08	0.00	-82.3	0.00	82.28	1,104.91	305.72	808.28	666.44	19.78	-1.38	0.148			
145.00	-18.82	-2.99	0.00	-70.7	0.00	70.71	1,093.00	299.73	776.91	646.26	20.61	-1.4	0.127			
150.00	-17.99	-2.88	0.00	-55.7	0.00	55.74	1,071.05	289.15	723.06	610.79	22.1	-1.45	0.108			
155.00	-17.17	-2.80	0.00	-41.4	0.00	41.35	1,047.88	278.58	671.14	575.57	23.64	-1.49	0.088			
155.70	-16.88	-2.72	0.00	-39.4	0.00	39.39	1,044.53	277.10	664.03	570.67	23.86	-1.5	0.085			
160.00	-8.94	-1.56	0.00	-27.5	0.00	27.51	1,023.49	268.00	621.16	540.69	25.22	-1.53	0.060			
165.00	-8.35	-1.45	0.00	-19.7	0.00	19.69	997.89	257.43	573.11	506.21	26.84	-1.55	0.047			
170.00	-7.77	-1.34	0.00	-12.4	0.00	12.44	971.07	246.85	527.00	472.22	28.48	-1.57	0.034			
175.00	-7.21	-1.23	0.00	-5.8	0.00	5.76	943.04	236.28	482.82	438.79	30.13	-1.59	0.021			
179.00	0.00	-1.03	0.00	-0.8	0.00	0.83	919.74	227.82	448.86	412.50	31.46	-1.59	0.002			

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	-49.31	-5.91	0.00	-753.0	0.00	753.05	5,344.11	1,366.21	6,918.10	6,164.89	0	0	0.131
5.00	-47.73	-5.84	0.00	-723.5	0.00	723.48	5,280.61	1,341.54	6,670.49	5,980.77	0.02	-0.03	0.130
10.00	-46.17	-5.77	0.00	-694.3	0.00	694.28	5,215.90	1,316.86	6,427.39	5,797.96	0.07	-0.07	0.129
15.00	-44.64	-5.70	0.00	-665.4	0.00	665.44	5,149.97	1,292.19	6,188.81	5,616.54	0.16	-0.1	0.127
20.00	-43.13	-5.62	0.00	-637.0	0.00	636.96	5,082.83	1,267.51	5,954.73	5,436.59	0.29	-0.14	0.126
25.00	-41.65	-5.55	0.00	-608.8	0.00	608.85	5,014.47	1,242.84	5,725.17	5,258.19	0.45	-0.17	0.124
30.00	-40.19	-5.48	0.00	-581.1	0.00	581.09	4,944.89	1,218.16	5,500.12	5,081.41	0.66	-0.21	0.123
35.00	-38.76	-5.40	0.00	-553.7	0.00	553.70	4,874.11	1,193.49	5,279.58	4,906.34	0.9	-0.25	0.121
40.00	-37.34	-5.33	0.00	-526.7	0.00	526.67	4,802.10	1,168.81	5,063.56	4,733.03	1.18	-0.29	0.119
45.00	-35.96	-5.28	0.00	-500.0	0.00	500.04	4,728.89	1,144.14	4,852.05	4,561.58	1.5	-0.32	0.117
45.21	-35.90	-5.24	0.00	-499.0	0.00	498.95	4,725.83	1,143.12	4,843.40	4,554.53	1.51	-0.32	0.117
50.00	-33.68	-5.18	0.00	-473.8	0.00	473.82	4,654.45	1,119.46	4,645.05	4,392.06	1.85	-0.36	0.115
51.79	-32.86	-5.14	0.00	-464.6	0.00	464.55	3,835.91	968.94	4,059.68	3,660.34	1.99	-0.38	0.136
55.00	-32.09	-5.07	0.00	-448.1	0.00	448.07	3,799.77	955.36	3,946.71	3,574.64	2.25	-0.4	0.134
60.00	-30.90	-4.98	0.00	-422.7	0.00	422.74	3,742.48	934.21	3,773.91	3,442.16	2.7	-0.44	0.131
65.00	-29.74	-4.89	0.00	-397.8	0.00	397.83	3,683.97	913.06	3,604.99	3,311.00	3.18	-0.49	0.128
70.00	-28.60	-4.81	0.00	-373.4	0.00	373.36	3,624.25	891.91	3,439.93	3,181.22	3.72	-0.53	0.125
75.00	-27.48	-4.72	0.00	-349.3	0.00	349.34	3,563.31	870.76	3,278.74	3,052.92	4.3	-0.57	0.122
80.00	-26.38	-4.63	0.00	-325.8	0.00	325.76	3,501.15	849.61	3,121.42	2,926.16	4.92	-0.62	0.119
85.00	-25.30	-4.53	0.00	-302.6	0.00	302.64	3,437.79	828.46	2,967.96	2,801.02	5.59	-0.66	0.115
90.00	-24.24	-4.47	0.00	-280.0	0.00	279.96	3,373.20	807.31	2,818.38	2,677.58	6.31	-0.71	0.112
91.75	-23.88	-4.42	0.00	-272.2	0.00	272.16	3,350.36	799.92	2,767.03	2,634.87	6.57	-0.72	0.110
95.00	-22.78	-4.37	0.00	-257.8	0.00	257.77	3,307.41	786.16	2,672.66	2,555.91	7.07	-0.75	0.108
97.25	-22.03	-4.32	0.00	-248.0	0.00	247.96	2,627.26	659.18	2,254.70	2,046.31	7.43	-0.77	0.130
100.00	-21.54	-4.25	0.00	-236.1	0.00	236.08	2,600.90	649.47	2,188.81	1,995.71	7.89	-0.8	0.127
105.00	-20.65	-4.16	0.00	-214.8	0.00	214.84	2,552.09	631.85	2,071.63	1,904.68	8.75	-0.85	0.121
110.00	-19.78	-4.07	0.00	-194.0	0.00	194.05	2,502.07	614.22	1,957.68	1,814.81	9.66	-0.89	0.115
115.00	-18.93	-3.98	0.00	-173.7	0.00	173.72	2,450.83	596.60	1,846.96	1,726.19	10.62	-0.94	0.108
120.00	-18.09	-3.88	0.00	-153.8	0.00	153.84	2,398.38	578.97	1,739.46	1,638.89	11.63	-0.99	0.101
125.00	-17.28	-3.79	0.00	-134.4	0.00	134.42	2,344.71	561.35	1,635.18	1,552.98	12.69	-1.03	0.094
130.00	-16.48	-3.70	0.00	-115.4	0.00	115.45	2,289.83	543.72	1,534.12	1,468.56	13.79	-1.07	0.086
135.00	-15.69	-3.63	0.00	-96.9	0.00	96.94	2,227.14	526.10	1,436.29	1,381.59	14.94	-1.11	0.077
137.83	-15.26	-3.58	0.00	-86.6	0.00	86.65	2,184.86	516.11	1,382.28	1,329.37	15.61	-1.14	0.072
140.00	-14.80	-3.54	0.00	-78.9	0.00	78.89	2,152.53	508.47	1,341.68	1,290.12	16.13	-1.15	0.068
142.17	-14.34	-3.49	0.00	-71.2	0.00	71.22	1,104.91	305.72	808.28	666.44	16.65	-1.17	0.120
145.00	-9.94	-2.53	0.00	-61.3	0.00	61.32	1,093.00	299.73	776.91	646.26	17.35	-1.18	0.104
150.00	-9.42	-2.45	0.00	-48.7	0.00	48.67	1,071.05	289.15	723.06	610.79	18.61	-1.23	0.089
155.00	-8.91	-2.39	0.00	-36.4	0.00	36.44	1,047.88	278.58	671.14	575.57	19.92	-1.27	0.072
155.70	-8.76	-2.33	0.00	-34.8	0.00	34.77	1,044.53	277.10	664.03	570.67	20.11	-1.27	0.069
160.00	-4.80	-1.36	0.00	-24.6	0.00	24.56	1,023.49	268.00	621.16	540.69	21.26	-1.3	0.050
165.00	-4.46	-1.28	0.00	-17.8	0.00	17.77	997.89	257.43	573.11	506.21	22.64	-1.32	0.040
170.00	-4.14	-1.20	0.00	-11.4	0.00	11.39	971.07	246.85	527.00	472.22	24.03	-1.34	0.028
175.00	-3.82	-1.13	0.00	-5.4	0.00	5.39	943.04	236.28	482.82	438.79	25.44	-1.35	0.016
179.00	0.00	-1.04	0.00	-0.9	0.00	0.87	919.74	227.82	448.86	412.50	26.57	-1.35	0.002

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period (S_s):	0.210
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.056
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a :	1.600
Site Coefficient F_v :	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.224
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.090
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):	3.020
Redundancy Factor (ρ):	1.000
Seismic Force Distribution Exponent (k):	2.000
Total Unfactored Dead Load:	49.310 k
Seismic Base Shear (E):	1.480 k

SEISMIC FORCES

Segment	Seismic	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
43		177	247	7,739	0.014	20	307
42		172.5	318	9,462	0.017	25	396
41		167.5	328	9,209	0.016	24	409
40		162.5	338	8,938	0.016	24	421
39		157.85	429	10,698	0.019	28	534
38		155.35	71	1,704	0.003	4	88
37		152.5	510	11,865	0.021	31	635
36		147.5	520	11,323	0.020	30	648
35		143.5833	316	6,507	0.012	17	393
34		141.0833	456	9,068	0.016	24	567
33		138.9167	461	8,891	0.016	23	573
32		136.4167	436	8,106	0.014	21	542
31		132.5	782	13,730	0.024	36	974
30		127.5	799	12,991	0.023	34	995
29		122.5	816	12,249	0.022	32	1,016
28		117.5	833	11,505	0.020	30	1,037
27		112.5	850	10,763	0.019	28	1,059
26		107.5	868	10,025	0.018	26	1,080
25		102.5	885	9,294	0.016	24	1,101
24		98.6233	494	4,809	0.009	13	615
23		96.1233	748	6,908	0.012	18	931
22		93.3733	1,096	9,557	0.017	25	1,364
21		90.8733	364	3,008	0.005	8	453
20		87.5	1,056	8,088	0.014	21	1,315
19		82.5	1,077	7,330	0.013	19	1,341
18		77.5	1,097	6,591	0.012	17	1,366
17		72.5	1,118	5,876	0.010	15	1,392
16		67.5	1,138	5,187	0.009	14	1,417
15		62.5	1,159	4,527	0.008	12	1,443
14		57.5	1,179	3,899	0.007	10	1,468
13		53.395	768	2,190	0.004	6	956
12		50.895	819	2,121	0.004	6	1,019
11		47.6033	2,221	5,033	0.009	13	2,765
10		45.1033	57	115	0.000	0	71
9		42.5	1,385	2,501	0.004	7	1,724
8		37.5	1,409	1,981	0.004	5	1,753
7		32.5	1,432	1,513	0.003	4	1,783
6		27.5	1,456	1,101	0.002	3	1,813

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh	Seismic	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
Segment							
5		22.5	1,480	749	0.001	2	1,843
4		17.5	1,504	461	0.001	1	1,872
3		12.5	1,528	239	0.000	1	1,902
2		7.5	1,552	87	0.000	0	1,932
1		2.5	1,576	10	0.000	0	1,962
Samsung B2/B66A RRH ORAN (RF 4439d-25A)							
		179	224	7,180	0.013	19	279
Samsung RF4461d-13A							
		179	237	7,603	0.014	20	295
Raycap RVZDC-6627-PF-48							
		179	32	1,025	0.002	3	40
Samsung MT6413-77A							
		179	172	5,508	0.010	14	214
Amphenol Antel LPA-80080-4CF-EDIN-0							
		179	72	2,307	0.004	6	90
JMA Wireless MX06FRO660-03							
		179	360	11,535	0.020	30	448
Generic Flat Platform with Handrails							
		179	2,500	80,102	0.142	211	3,112
Kathrein Scala Smart Bias Tee							
		160	10	253	0.000	1	12
Powerwave Allgon LGP21901							
		160	33	845	0.002	2	41
Raycap DC6-48-60-0-8C-EV							
		160	16	410	0.001	1	20
Raycap DC6-48-60-18-8F(32.8 lbs)							
		160	33	840	0.002	2	41
Ericsson RRUS 8843 B2, B66A							
		160	216	5,530	0.010	15	269
Ericsson RRUS 4478 B14							
		160	180	4,600	0.008	12	224
Ericsson RRUS 4449 B5, B12							
		160	213	5,453	0.010	14	265
Raycap DC6-48-60-18-8C							
		160	16	410	0.001	1	20
Powerwave Allgon 7770.00							
		160	105	2,688	0.005	7	131
Kathrein Scala 80010964							
		160	168	4,291	0.008	11	209
Generic Round Sector Frame							
		160	2,100	53,760	0.096	141	2,614
Kathrein Scala 80010966							
		160	458	11,735	0.021	31	571
Powerwave Allgon LGP21401							
		155.7	85	2,051	0.004	5	105
Ericsson 4460 BAND 2/25							
		145	327	6,875	0.012	18	407
Ericsson 4480 BAND 71							
		145	243	5,109	0.009	13	302
Ericsson AIR 6419 B41							
		145	206	4,321	0.008	11	256
Commscope VV-65A-R1B							
		145	74	1,558	0.003	4	92
Generic Mount Reinforcement							
		145	200	4,205	0.008	11	249
RFS APXVAARR24_43-U-NA20							
		145	384	8,067	0.014	21	478
Site Pro 1 RMQP-4096-HK							
		145	2,669	56,116	0.100	148	3,322
Totals:			49,310	562,324	1.000	1,479	61,381

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
Segment							
43		177	247	7,739	0.014	20	211
42		172.5	318	9,462	0.017	25	272
41		167.5	328	9,209	0.016	24	281
40		162.5	338	8,938	0.016	24	289
39		157.85	429	10,698	0.019	28	367
38		155.35	71	1,704	0.003	4	60
37		152.5	510	11,865	0.021	31	436
36		147.5	520	11,323	0.020	30	445
35		143.5833	316	6,507	0.012	17	270
34		141.0833	456	9,068	0.016	24	390
33		138.9167	461	8,891	0.016	23	394
32		136.4167	436	8,106	0.014	21	373
31		132.5	782	13,730	0.024	36	669
30		127.5	799	12,991	0.023	34	683
29		122.5	816	12,249	0.022	32	698
28		117.5	833	11,505	0.020	30	713
27		112.5	850	10,763	0.019	28	727
26		107.5	868	10,025	0.018	26	742
25		102.5	885	9,294	0.016	24	757
24		98.6233	494	4,809	0.009	13	423
23		96.1233	748	6,908	0.012	18	639
22		93.3733	1,096	9,557	0.017	25	937
21		90.8733	364	3,008	0.005	8	311

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)
20	87.5	1,056	8,088	0.014	21	903
19	82.5	1,077	7,330	0.013	19	921
18	77.5	1,097	6,591	0.012	17	939
17	72.5	1,118	5,876	0.010	15	956
16	67.5	1,138	5,187	0.009	14	974
15	62.5	1,159	4,527	0.008	12	991
14	57.5	1,179	3,899	0.007	10	1,009
13	53.395	768	2,190	0.004	6	657
12	50.895	819	2,121	0.004	6	700
11	47.6033	2,221	5,033	0.009	13	1,899
10	45.1033	57	115	0.000	0	49
9	42.5	1,385	2,501	0.004	7	1,184
8	37.5	1,409	1,981	0.004	5	1,205
7	32.5	1,432	1,513	0.003	4	1,225
6	27.5	1,456	1,101	0.002	3	1,246
5	22.5	1,480	749	0.001	2	1,266
4	17.5	1,504	461	0.001	1	1,286
3	12.5	1,528	239	0.000	1	1,307
2	7.5	1,552	87	0.000	0	1,327
1	2.5	1,576	10	0.000	0	1,348
Samsung B2/B66A RRH ORAN (RF 4439d-25A)	179	224	7,180	0.013	19	192
Samsung RF4461d-13A	179	237	7,603	0.014	20	203
Raycap RVZDC-6627-PF-48	179	32	1,025	0.002	3	27
Samsung MT6413-77A	179	172	5,508	0.010	14	147
Amphenol Antel LPA-80080-4CF-EDIN-0	179	72	2,307	0.004	6	62
JMA Wireless MX06FRO660-03	179	360	11,535	0.020	30	308
Generic Flat Platform with Handrails	179	2,500	80,102	0.142	211	2,138
Kathrein Scala Smart Bias Tee	160	10	253	0.000	1	8
Powerwave Allgon LGP21901	160	33	845	0.002	2	28
Raycap DC6-48-60-0-8C-EV	160	16	410	0.001	1	14
Raycap DC6-48-60-18-8F(32.8 lbs)	160	33	840	0.002	2	28
Ericsson RRUS 8843 B2, B66A	160	216	5,530	0.010	15	185
Ericsson RRUS 4478 B14	160	180	4,600	0.008	12	154
Ericsson RRUS 4449 B5, B12	160	213	5,453	0.010	14	182
Raycap DC6-48-60-18-8C	160	16	410	0.001	1	14
Powerwave Allgon 7770.00	160	105	2,688	0.005	7	90
Kathrein Scala 80010964	160	168	4,291	0.008	11	143
Generic Round Sector Frame	160	2,100	53,760	0.096	141	1,796
Kathrein Scala 80010966	160	458	11,735	0.021	31	392
Powerwave Allgon LGP21401	155.7	85	2,051	0.004	5	72
Ericsson 4460 BAND 2/25	145	327	6,875	0.012	18	280
Ericsson 4480 BAND 71	145	243	5,109	0.009	13	208
Ericsson AIR 6419 B41	145	206	4,321	0.008	11	176
Commscope VV-65A-R1B	145	74	1,558	0.003	4	63
Generic Mount Reinforcement	145	200	4,205	0.008	11	171
RFS APXVAARR24_43-U-NA20	145	384	8,067	0.014	21	328
Site Pro 1 RMQP-4096-HK	145	2,669	56,116	0.100	148	2,283
Totals:		49,310	562,324	1.000	1,479	42,170

1.2D + 1.0Ev + 1.0Eh

Seismic

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-59.42	-1.48	0.00	-222.34	0.00	222.34	5,344.11	1,366.21	6,918	6,164.89	0.00	0.00	0.05
5.00	-57.49	-1.49	0.00	-214.92	0.00	214.92	5,280.61	1,341.54	6,670	5,980.77	0.01	-0.01	0.05
10.00	-55.58	-1.50	0.00	-207.45	0.00	207.45	5,215.90	1,316.86	6,427	5,797.96	0.02	-0.02	0.05
15.00	-53.71	-1.51	0.00	-199.94	0.00	199.94	5,149.97	1,292.19	6,189	5,616.54	0.05	-0.03	0.05
20.00	-51.87	-1.52	0.00	-192.39	0.00	192.39	5,082.83	1,267.51	5,955	5,436.59	0.09	-0.04	0.05
25.00	-50.06	-1.52	0.00	-184.80	0.00	184.80	5,014.47	1,242.84	5,725	5,258.19	0.14	-0.05	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
30.00	-48.27	-1.53	0.00	-177.19	0.00	177.19	4,944.89	1,218.16	5,500	5,081.41	0.20	-0.06	0.05
35.00	-46.52	-1.53	0.00	-169.56	0.00	169.56	4,874.11	1,193.49	5,280	4,906.34	0.27	-0.07	0.04
40.00	-44.79	-1.53	0.00	-161.92	0.00	161.92	4,802.10	1,168.81	5,064	4,733.03	0.35	-0.09	0.04
45.00	-44.72	-1.53	0.00	-154.28	0.00	154.28	4,728.89	1,144.14	4,852	4,561.58	0.45	-0.10	0.04
45.21	-41.96	-1.52	0.00	-153.96	0.00	153.96	4,725.83	1,143.12	4,843	4,554.53	0.45	-0.10	0.04
50.00	-40.94	-1.52	0.00	-146.68	0.00	146.68	4,654.45	1,119.46	4,645	4,392.06	0.56	-0.11	0.04
51.79	-39.98	-1.51	0.00	-143.97	0.00	143.97	3,835.91	968.94	4,060	3,660.34	0.60	-0.11	0.05
55.00	-38.51	-1.51	0.00	-139.11	0.00	139.11	3,799.77	955.36	3,947	3,574.64	0.68	-0.12	0.05
60.00	-37.07	-1.50	0.00	-131.57	0.00	131.57	3,742.48	934.21	3,774	3,442.16	0.81	-0.14	0.05
65.00	-35.65	-1.49	0.00	-124.07	0.00	124.07	3,683.97	913.06	3,605	3,311.00	0.96	-0.15	0.05
70.00	-34.26	-1.48	0.00	-116.61	0.00	116.61	3,624.25	891.91	3,440	3,181.22	1.13	-0.16	0.05
75.00	-32.90	-1.47	0.00	-109.20	0.00	109.20	3,563.31	870.76	3,279	3,052.92	1.30	-0.18	0.05
80.00	-31.56	-1.45	0.00	-101.86	0.00	101.86	3,501.15	849.61	3,121	2,926.16	1.49	-0.19	0.04
85.00	-30.24	-1.43	0.00	-94.60	0.00	94.60	3,437.79	828.46	2,968	2,801.02	1.70	-0.20	0.04
90.00	-29.79	-1.43	0.00	-87.44	0.00	87.44	3,373.20	807.31	2,818	2,677.58	1.92	-0.22	0.04
91.75	-28.42	-1.40	0.00	-84.94	0.00	84.94	3,350.36	799.92	2,767	2,634.87	2.00	-0.22	0.04
95.00	-27.49	-1.38	0.00	-80.38	0.00	80.38	3,307.41	786.16	2,673	2,555.91	2.16	-0.23	0.04
97.25	-26.88	-1.37	0.00	-77.28	0.00	77.28	2,627.26	659.18	2,255	2,046.31	2.27	-0.24	0.05
100.00	-25.77	-1.35	0.00	-73.50	0.00	73.50	2,600.90	649.47	2,189	1,995.71	2.41	-0.25	0.05
105.00	-24.69	-1.32	0.00	-66.76	0.00	66.76	2,552.09	631.85	2,072	1,904.68	2.67	-0.26	0.05
110.00	-23.64	-1.30	0.00	-60.15	0.00	60.15	2,502.07	614.22	1,958	1,814.81	2.95	-0.28	0.04
115.00	-22.60	-1.27	0.00	-53.67	0.00	53.67	2,450.83	596.60	1,847	1,726.19	3.25	-0.29	0.04
120.00	-21.58	-1.23	0.00	-47.33	0.00	47.33	2,398.38	578.97	1,739	1,638.89	3.56	-0.30	0.04
125.00	-20.59	-1.20	0.00	-41.16	0.00	41.16	2,344.71	561.35	1,635	1,552.98	3.89	-0.32	0.04
130.00	-19.61	-1.16	0.00	-35.17	0.00	35.17	2,289.83	543.72	1,534	1,468.56	4.23	-0.33	0.03
135.00	-19.07	-1.14	0.00	-29.36	0.00	29.36	2,227.14	526.10	1,436	1,381.59	4.58	-0.34	0.03
137.83	-18.50	-1.12	0.00	-26.13	0.00	26.13	2,184.86	516.11	1,382	1,329.37	4.79	-0.35	0.03
140.00	-17.93	-1.09	0.00	-23.71	0.00	23.71	2,152.53	508.47	1,342	1,290.12	4.95	-0.35	0.03
142.17	-17.54	-1.07	0.00	-21.35	0.00	21.35	1,104.91	305.72	808	666.44	5.11	-0.36	0.05
145.00	-11.78	-0.78	0.00	-18.31	0.00	18.31	1,093.00	299.73	777	646.26	5.32	-0.36	0.04
150.00	-11.15	-0.75	0.00	-14.41	0.00	14.41	1,071.05	289.15	723	610.79	5.71	-0.38	0.03
155.00	-11.06	-0.74	0.00	-10.67	0.00	10.67	1,047.88	278.58	671	575.57	6.11	-0.39	0.03
155.70	-10.42	-0.71	0.00	-10.15	0.00	10.15	1,044.53	277.10	664	570.67	6.17	-0.39	0.03
160.00	-5.59	-0.41	0.00	-7.12	0.00	7.12	1,023.49	268.00	621	540.69	6.52	-0.40	0.02
165.00	-5.18	-0.39	0.00	-5.06	0.00	5.06	997.89	257.43	573	506.21	6.94	-0.40	0.02
170.00	-4.78	-0.36	0.00	-3.13	0.00	3.13	971.07	246.85	527	472.22	7.37	-0.41	0.01
175.00	-4.48	-0.34	0.00	-1.34	0.00	1.34	943.04	236.28	483	438.79	7.80	-0.41	0.01
179.00	0.00	-0.30	0.00	0.00	0.00	0.00	919.74	227.82	449	412.50	8.15	-0.41	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	-40.82	-1.48	0.00	-217.51	0.00	217.51	5,344.11	1,366.21	6,918	6,164.89	0.00	0.00	0.04
5.00	-39.49	-1.49	0.00	-210.10	0.00	210.10	5,280.61	1,341.54	6,670	5,980.77	0.01	-0.01	0.04
10.00	-38.19	-1.49	0.00	-202.66	0.00	202.66	5,215.90	1,316.86	6,427	5,797.96	0.02	-0.02	0.04
15.00	-36.90	-1.50	0.00	-195.19	0.00	195.19	5,149.97	1,292.19	6,189	5,616.54	0.05	-0.03	0.04
20.00	-35.63	-1.50	0.00	-187.70	0.00	187.70	5,082.83	1,267.51	5,955	5,436.59	0.08	-0.04	0.04
25.00	-34.39	-1.51	0.00	-180.19	0.00	180.19	5,014.47	1,242.84	5,725	5,258.19	0.13	-0.05	0.04
30.00	-33.16	-1.51	0.00	-172.66	0.00	172.66	4,944.89	1,218.16	5,500	5,081.41	0.19	-0.06	0.04
35.00	-31.96	-1.51	0.00	-165.13	0.00	165.13	4,874.11	1,193.49	5,280	4,906.34	0.26	-0.07	0.04
40.00	-30.77	-1.50	0.00	-157.60	0.00	157.60	4,802.10	1,168.81	5,064	4,733.03	0.34	-0.08	0.04
45.00	-30.73	-1.51	0.00	-150.09	0.00	150.09	4,728.89	1,144.14	4,852	4,561.58	0.44	-0.10	0.04
45.21	-28.83	-1.49	0.00	-149.77	0.00	149.77	4,725.83	1,143.12	4,843	4,554.53	0.44	-0.10	0.04
50.00	-28.13	-1.49	0.00	-142.62	0.00	142.62	4,654.45	1,119.46	4,645	4,392.06	0.54	-0.11	0.04
51.79	-27.47	-1.49	0.00	-139.95	0.00	139.95	3,835.91	968.94	4,060	3,660.34	0.59	-0.11	0.05
55.00	-26.46	-1.48	0.00	-135.18	0.00	135.18	3,799.77	955.36	3,947	3,574.64	0.66	-0.12	0.05
60.00	-25.47	-1.47	0.00	-127.79	0.00	127.79	3,742.48	934.21	3,774	3,442.16	0.79	-0.13	0.04
65.00	-24.49	-1.46	0.00	-120.44	0.00	120.44	3,683.97	913.06	3,605	3,311.00	0.94	-0.14	0.04

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
70.00	-23.54	-1.45	0.00	-113.15	0.00	113.15	3,624.25	891.91	3,440	3,181.22	1.10	-0.16	0.04
75.00	-22.60	-1.43	0.00	-105.91	0.00	105.91	3,563.31	870.76	3,279	3,052.92	1.27	-0.17	0.04
80.00	-21.68	-1.42	0.00	-98.75	0.00	98.75	3,501.15	849.61	3,121	2,926.16	1.46	-0.18	0.04
85.00	-20.77	-1.40	0.00	-91.68	0.00	91.68	3,437.79	828.46	2,968	2,801.02	1.66	-0.20	0.04
90.00	-20.46	-1.39	0.00	-84.70	0.00	84.70	3,373.20	807.31	2,818	2,677.58	1.87	-0.21	0.04
91.75	-19.52	-1.36	0.00	-82.27	0.00	82.27	3,350.36	799.92	2,767	2,634.87	1.95	-0.22	0.04
95.00	-18.89	-1.35	0.00	-77.84	0.00	77.84	3,307.41	786.16	2,673	2,555.91	2.10	-0.22	0.04
97.25	-18.46	-1.33	0.00	-74.81	0.00	74.81	2,627.26	659.18	2,255	2,046.31	2.21	-0.23	0.04
100.00	-17.71	-1.31	0.00	-71.14	0.00	71.14	2,600.90	649.47	2,189	1,995.71	2.34	-0.24	0.04
105.00	-16.96	-1.28	0.00	-64.60	0.00	64.60	2,552.09	631.85	2,072	1,904.68	2.60	-0.25	0.04
110.00	-16.24	-1.26	0.00	-58.18	0.00	58.18	2,502.07	614.22	1,958	1,814.81	2.87	-0.27	0.04
115.00	-15.52	-1.23	0.00	-51.89	0.00	51.89	2,450.83	596.60	1,847	1,726.19	3.16	-0.28	0.04
120.00	-14.83	-1.19	0.00	-45.76	0.00	45.76	2,398.38	578.97	1,739	1,638.89	3.46	-0.30	0.03
125.00	-14.14	-1.16	0.00	-39.79	0.00	39.79	2,344.71	561.35	1,635	1,552.98	3.78	-0.31	0.03
130.00	-13.47	-1.12	0.00	-33.99	0.00	33.99	2,289.83	543.72	1,534	1,468.56	4.11	-0.32	0.03
135.00	-13.10	-1.10	0.00	-28.37	0.00	28.37	2,227.14	526.10	1,436	1,381.59	4.46	-0.33	0.03
137.83	-12.71	-1.08	0.00	-25.25	0.00	25.25	2,184.86	516.11	1,382	1,329.37	4.65	-0.34	0.03
140.00	-12.32	-1.05	0.00	-22.92	0.00	22.92	2,152.53	508.47	1,342	1,290.12	4.81	-0.34	0.02
142.17	-12.05	-1.03	0.00	-20.64	0.00	20.64	1,104.91	305.72	808	666.44	4.97	-0.35	0.04
145.00	-8.10	-0.75	0.00	-17.71	0.00	17.71	1,093.00	299.73	777	646.26	5.18	-0.35	0.04
150.00	-7.66	-0.72	0.00	-13.94	0.00	13.94	1,071.05	289.15	723	610.79	5.55	-0.37	0.03
155.00	-7.60	-0.72	0.00	-10.32	0.00	10.32	1,047.88	278.58	671	575.57	5.94	-0.38	0.03
155.70	-7.16	-0.68	0.00	-9.82	0.00	9.82	1,044.53	277.10	664	570.67	6.00	-0.38	0.02
160.00	-3.84	-0.40	0.00	-6.89	0.00	6.89	1,023.49	268.00	621	540.69	6.34	-0.39	0.02
165.00	-3.56	-0.37	0.00	-4.89	0.00	4.89	997.89	257.43	573	506.21	6.75	-0.39	0.01
170.00	-3.29	-0.35	0.00	-3.03	0.00	3.03	971.07	246.85	527	472.22	7.16	-0.40	0.01
175.00	-3.07	-0.32	0.00	-1.30	0.00	1.30	943.04	236.28	483	438.79	7.58	-0.40	0.01
179.00	0.00	-0.30	0.00	0.00	0.00	0.00	919.74	227.82	449	412.50	7.92	-0.40	0.00

ANALYSIS SUMMARY

Load Case	Base Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	26.90	0.00	59.13	0.00	0.00	3456.29	51.79	0.59
0.9D + 1.0W	26.88	0.00	44.34	0.00	0.00	3399.24	51.79	0.58
1.2D + 1.0Di + 1.0Wi	7.09	0.00	76.54	0.00	0.00	899.61	51.79	0.17
1.2D + 1.0Ev + 1.0Eh	1.53	0.00	59.42	0.00	0.00	222.34	51.79	0.05
0.9D - 1.0Ev + 1.0Eh	1.51	0.00	40.82	0.00	0.00	217.51	51.79	0.05
1.0D + 1.0W	5.91	0.00	49.31	0.00	0.00	753.05	51.79	0.14

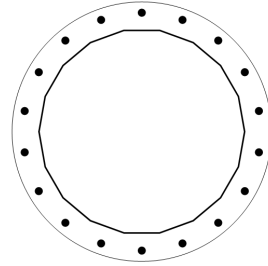
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
3456.29	59.13	26.9

PLATE PARAMETERS (ID# 1320)

Width:	72	in
Shape:	Round	
Thickness:	2	in
Grade:	A572-60	
Yield Strength:	60	ksi
Tensile Strength:	75	ksi
Rod Detail Type:	d	
Clear Distance	4	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	40	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#7995]	Radial	18	2.25	66	A615-75	75	100	-	10

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	56.5"Ø x 0.4375" (18 Sides)	76.6643	-	-	30124.44	-
Bolt Group	Original (18) 2.25"Ø	3.9761	3.2477	0.8393	29364.09	4.5

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	56.5"Ø x 0.4375" (18 Sides)	3456.3	59.13	26.90	1.000
Bolt Group	Original (18) 2.25"Ø	3456.3	-	26.90	1.000

BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES

Flat-to-Flat Diameter:	56.62	in
Point-to-Point Diameter:	57.50	in
Orientation Offset:	-	°

Flat Width:	9.985	in
Flat Radians:	0.349	rad

PLATE PROPERTIES

Neutral Axis:	40	°
Bend Line Limits:	1.741 to 2.797	rad

Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment M _u (k-in)	Moment Capacity ΦM _n (k-in)	Flexure Result M _u /ΦM _n
Flats	40.107	0.00	40.107	911.2	2165.8	42.1%
Corners	38.844	0.00	38.844	724.1	2097.6	34.5%
Circumferential	48.457	0.00	48.457	1258.7	2616.7	48.1%

PLASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	18	2.25	120.3	2.3	243.6	51.2%

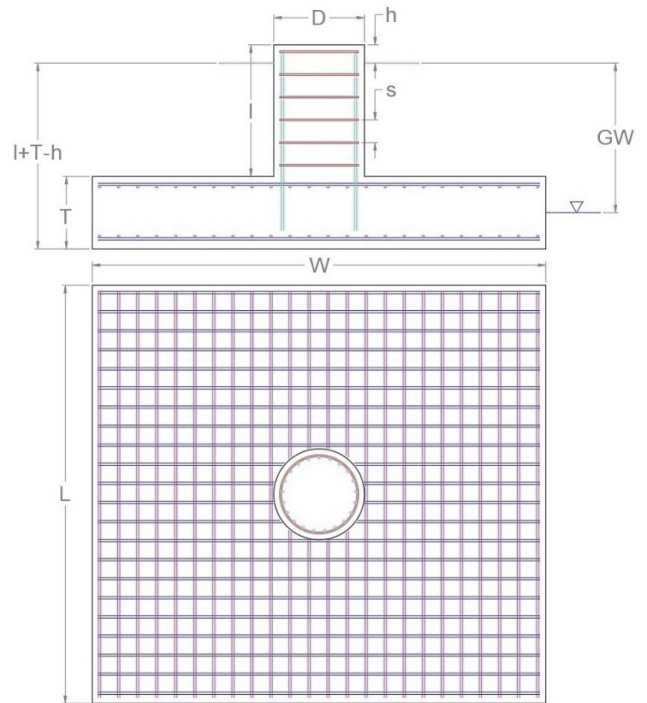


APPLIED GLOBAL REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
3,456.29	59.13	26.90

FOUNDATION PARAMETERS

Mat Length:	L	25.5	ft
Mat Width:	W	25.5	ft
Mat Thickness:	T	3	ft
Base Depth:	L+T-h	7	ft
Pier Shape:		Round	
Pier Diameter:	D	8	ft
Pier Height above Grade:	h	1	ft
Concrete Compressive Strength:		4,000	psi
Mat Top Rebar:		(25) #8 bars [60 ksi]	
Mat Bottom Rebar:		(25) #8 bars [60 ksi]	
Pier Vertical Rebar:		(42) #8 bars [60 ksi]	
Pier Rebar Ties:	s	#4 bars @ 6.0" c/c [60 ksi]	
Rebar Clear Cover:		3.0	in
Tower Eccentricity:	ecc	0	ft
Tower Leg Count		1	



SOIL PARAMETERS

Water Table Depth [BGL]:	GW		ft
Soil Unit Weight:		126	pcf
Ultimate Skin Friction:		0	psf
Ultimate Bearing Pressure:		10,000	psf
Bearing Pressure Type:		Gross	
Coefficient of Shear Friction:		0.3	

SOIL STRENGTH ANALYSIS

Soil Strength Reduction Factor, Φ_s	Uplift Strength Reduction Factor, Φ_s	Asset Dead Load Factor	Dead Load Factor
0.75	0.75	0.9	1.2

SOIL OVERTURNING ANALYSIS

Design Moment, $M_{u,Design}$ (k-ft)	Nominal Overturning Capacity, $\Phi_m M_n$ (k-ft)	Soil Overturning Usage, $M_{u,Design} / \Phi_m M_n$
3,671.49	8,298.63	44.2% ✔

SOIL BEARING ANALYSIS

Net Bearing Pressure, $P_{u,Net}$ (psf)	Nominal Bearing Capacity, $\Phi_b P_n$ (k-ft)	Bearing Pressure Controlling Load Direction	Soil Bearing Usage, $P_{u,net} / \Phi_b P_n$
1,778.00	7,500.00	Diagonal to Pad Edge	23.7% ✔

SOIL SLIDING SHEAR ANALYSIS

Applied Shear Force, V_u (k)	Friction Resistance (k)	Passive Pressure (psf)	Passive Pressure Resistance (k)	Nominal Shear Capacity, $\Phi_s V_n$ (k)	Soil Sliding Shear Usage, $V_u / \Phi_s V_n$
26.90	0.00	693.0	53.01	193.21	14.0% ✔

MAT REINFORCING STEEL STRENGTH ANALYSIS

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

MAT REINFORCING ONE WAY SHEAR ANALYSIS

One Way Design Shear, V_u (k)	Nominal One Way Shear Capacity, $\Phi_c V_n$ (k)	One Way Shear Controlling Load Direction	Mat One Way Shear Usage, $V_u / \Phi_c V_n$
115.76	828.01	Diagonal to Pad Edge	14.0%

MAT REINFORCING PUNCHING SHEAR ANALYSIS

Punching Shear Design Stress, v_u (psi)	Nominal Punching Shear Capacity, $\Phi_c v_n$ (psi)	Mat Punching Shear Usage, $v_u / \Phi_c v_n$
36.1	189.7	19.0%

MAT REINFORCING MOMENT TRANSFER ANALYSIS

Moment Transfer Effective Flexural Width, w_t (in)	Neutral Axis Depth (in)	Pier Moment at Joint, M_{ut} (k-in)	Nominal Moment Transfer Capacity, $\Phi M_{sc,f}$ (k-in)	Mat Moment Transfer Usage, $0.6 M_{ut} / \Phi M_{sc,f}$
17.00	1.19	0.00	23,308.2	0.0%

MAT REINFORCING FLEXURE ANALYSIS – UPPER STEEL

Factored Moment, M_u (k-ft)	Nominal Flexural Capacity, ΦM_n (k-ft)	Flexural Steel Controlling Load Direction	Mat Upper Rebar Flexure Usage, $M_u / \Phi M_n$
931.27	2,800.98	Parallel to Pad Edge	33.2%

MAT REINFORCING FLEXURE ANALYSIS – LOWER STEEL

Factored Moment, M_u (k-ft)	Nominal Flexural Capacity, ΦM_n (k-ft)	Flexural Steel Controlling Load Direction	Mat Lower Rebar Flexure Usage, $M_u / \Phi M_n$
1,238.10	2,800.98	Parallel to Pad Edge	44.2%

PIER REINFORCING STEEL STRENGTH ANALYSIS

Rebar Cage Diameter (in)	Steel Elastic Modulus, E (ksi)	Strength Bending/Tension Reduction Factor, Φ_b	Strength Shear Reduction Factor, Φ_v	Strength Compression Reduction Factor, Φ_c
88.00	29,000	0.9	0.75	0.65

PIER REINFORCING MOMENT ANALYSIS

Design Moment, M_u (k-ft)	Nominal Moment Capacity, $\Phi_u M_n$ (k-ft)	Bending Reinforcement Ratio	Pier Rebar Flexure Usage, $M_u / \Phi_u M_n$
3,590.79	6,424.45	0.005	55.9%

PIER REINFORCING COMPRESSION ANALYSIS

Design Compression, P_u (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$
59.13	12,763.18	0.5%

PIER REINFORCING SHEAR ANALYSIS

Design Shear, V_u (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$
26.90	919.88	2.9%

EXHIBIT 4



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

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10221201
Colliers Engineering & Design Project #: 21777720 (Rev 1)

February 6, 2024

Site Information

Site ID: 5000121576-VZW / COLCHESTER SOUTH CT
Site Name: COLCHESTER SOUTH CT
Carrier Name: Verizon Wireless
Address: 856 Middletown Road
Colchester, Connecticut 06415
New London County
Latitude: 41.55163°
Longitude: -72.42579°

Structure Information

Tower Type: 180-Ft Monopole
Mount Type: 12.92-Ft Platform

FUZE ID # 16272138

Analysis Results

Platform: 48.6% **Pass w/ Modifications***

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

***Contractor PMI Requirements:

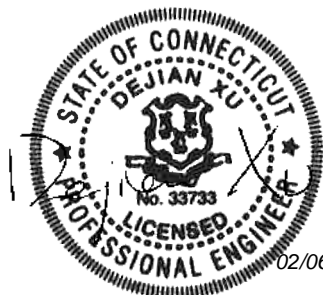
Included at the end of this MA report

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

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Nathan LaPorte



02/06/2024

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

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: 674864, dated July 24, 2023
Mount Mapping Report	ELITE ICT, Site ID: 41179, dated April 21, 2021
Previous Mount Analysis	Colliers Engineering & Design Project #: 21777720 (Rev. 1), dated January 19, 2024
Mount Modification Drawings	Colliers Engineering & Design Project #: 21777720 (Rev. 1), dated February 6, 2024

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} : 130 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.980
Seismic Parameters:	S_s : 0.191 g S_1 : 0.053 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 (V21)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
178.50	180.00	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6413-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4461d-13A	
		1	Raycap	RVZDC-6627-PF-48	
		6	Amphenol Antel	LPA-80080-4CF	Retained

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

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

Standard Conditions:

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

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

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

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

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Corner Angle	29.5%	Pass
Support Rail	13.9%	Pass
Kicker	13.8%	Pass
Grating Support	4.0%	Pass
Antenna Pipe	30.9%	Pass
Standoff Horizontal	24.3%	Pass
Face Horizontal	16.5%	Pass
Mount Connection	48.6%	Pass
Structure Rating – (Controlling Utilization of all Components)		48.6%

Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector B Standoff	178.50	N23	378	5998	0.286	0.975	416	4478	0.322	0.279
Sector A Standoff	178.50	N26	398	6193	0.431	1.171	315	4572	0.236	0.323
Sector C Standoff	178.50	N29	378	5989	0.286	0.976	415	4456	0.322	0.279
Sector B Reinforcement	176.25	N106A	2026	4020	0.000	0.000	2872	5684	0.000	0.000
Sector A Reinforcement	176.25	N107A	2085	4139	0.000	0.000	2909	5759	0.000	0.000
Sector C Reinforcement	176.25	N110	2022	4012	0.000	0.000	2861	5662	0.000	0.000

Notes:

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

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	23.7	23.7	45.4	45.4
0.5	30.7	30.7	61.5	61.5
1	37.2	37.2	77.1	77.1

Notes:

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

Requirements:

The existing mount will be **SUFFICIENT** for the final loading configuration (attachment 2) **after the modifications detailed in attachment 3 are successfully completed.**

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

Attachments:

1. **Contractor Required PMI Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Modification Drawings
4. Mount Photos
5. Mount Mapping Report (for reference only)
6. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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 #: 5000121576

SMART Project #: 10221201

Fuze Project ID: 16272138

Purpose – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor 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 modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- If installation of the modification 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 drawings” showing contractor’s name, 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 post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is 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 of the modifications.
 - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed
- Photos taken at Mount Elevation
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.
 - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
 - If the materials are as specified on the drawings
 - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
 - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
 - If seeking permission to use an equivalent
 - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.

All hardware has been properly installed, and the existing hardware was inspected.

The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings 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.

Antenna & Equipment Placement and Geometry Confirmation:

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

OR

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

Comments:

Was the mount modification completed in conjunction with the equipment change / installation?

- Yes No

Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

Contractor shall install new OVP unit onto existing OVP pipe to replace removed OVP unit.

Response:

Special Instruction Confirmation:

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

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

Comments:

--

Certifying Individual:

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

Se tor: A

2/5/2024

Str t re Type: Mo opole

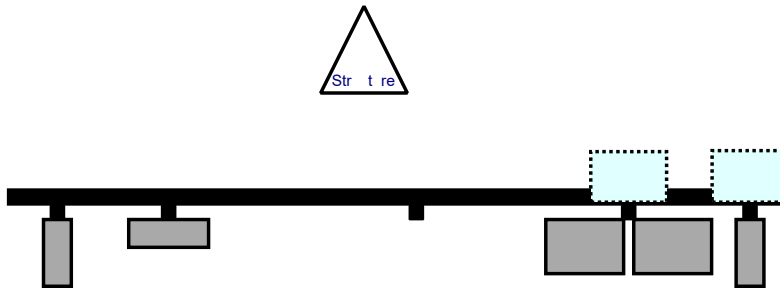
10221201



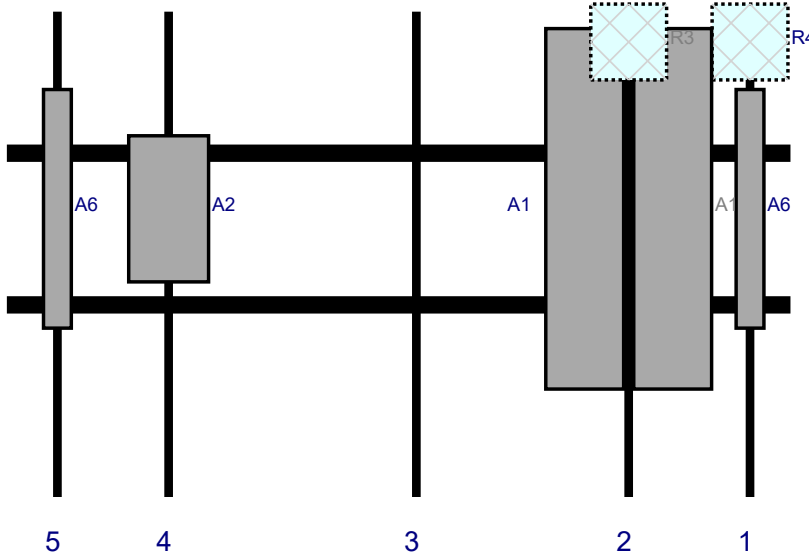
Mo t Elev: 178.50

P ge: 1

Plan View



Front View - Looking at Str t re



Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A6	LPA-80080-4CF	47.2	5.5	147	1		Fro t	39	0	Ret i ed	04/21/2021
R4	RF4461d-13A	15	15	147	1		Behi d	6	0	Added	
A1	MX06FRO660-03	71.3	15.4	123	2		Fro t	39	8.7	Added	
A1	MX06FRO660-03	71.3	15.4	123	2		Fro t	39	-8.7	Added	
R3	RF4439d-25A	15	15	123	2		Behi d	6	0	Added	
A2	MT6413-77A	28.9	15.8	32	4		Fro t	39	0	Added	
A6	LPA-80080-4CF	47.2	5.5	10	5		Fro t	39	0	Ret i ed	04/21/2021
M23	RVZDC-6627-PF-48	29.5	16.5			Me er				Added	

Section: B

2/5/2024

Structure Type: Monopole

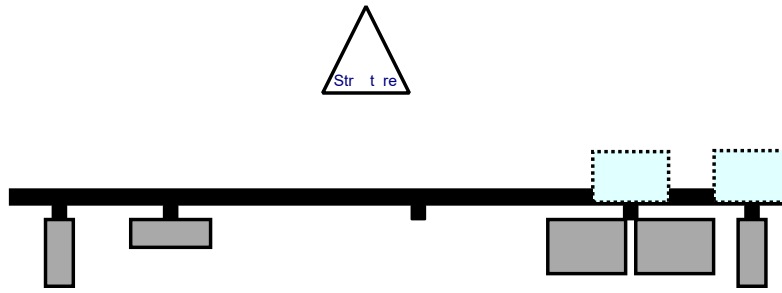
10221201



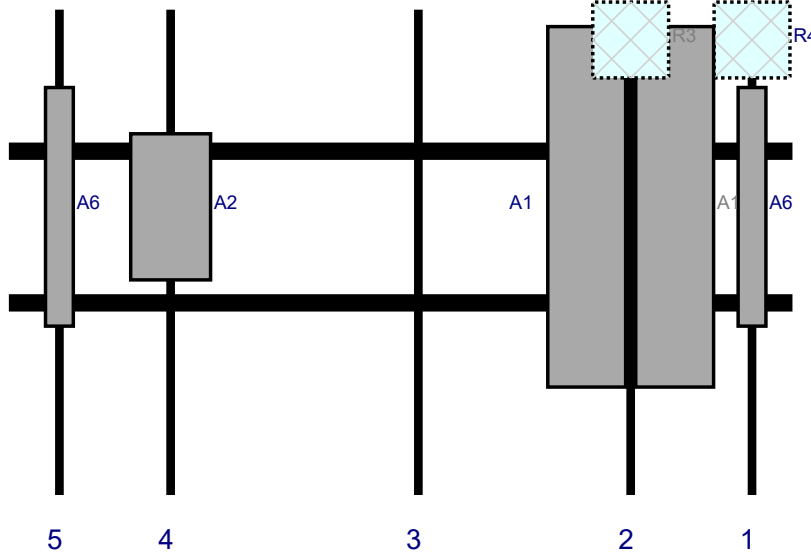
Moist Elev: 178.50

Page: 2

Plan View

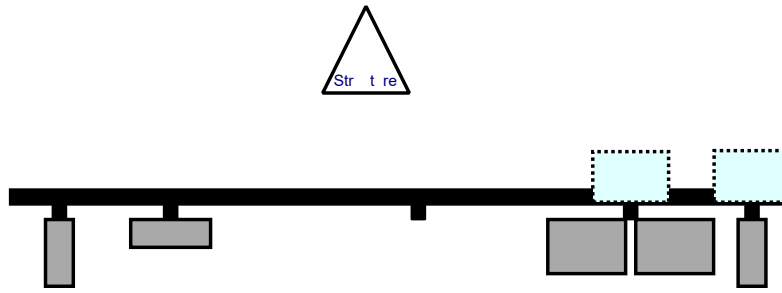


Front View - Looking at Structure

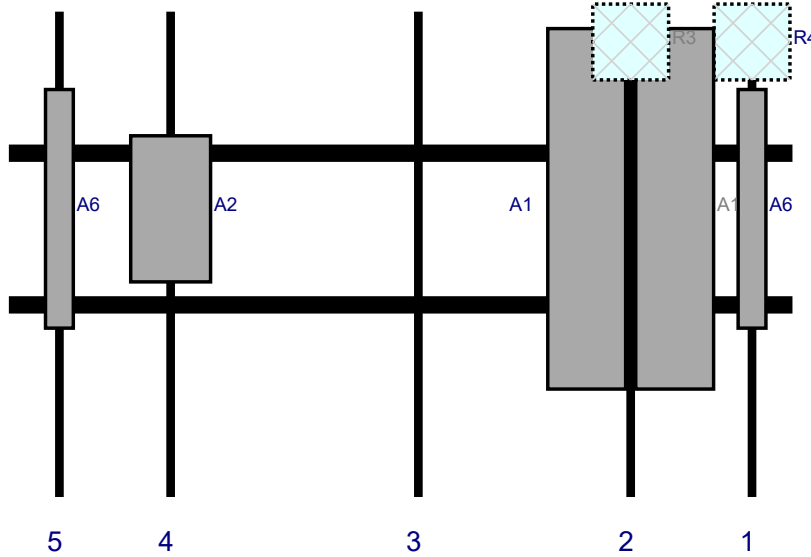


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A6	LPA-80080-4CF	47.2	5.5	147	1		Fro t	39	0	Ret i ed	04/21/2021
R4	RF4461d-13A	15	15	147	1		Behi d	6	0	Added	
A1	MX06FRO660-03	71.3	15.4	123	2		Fro t	39	8.7	Added	
A1	MX06FRO660-03	71.3	15.4	123	2		Fro t	39	-8.7	Added	
R3	RF4439d-25A	15	15	123	2		Behi d	6	0	Added	
A2	MT6413-77A	28.9	15.8	32	4		Fro t	39	0	Added	
A6	LPA-80080-4CF	47.2	5.5	10	5		Fro t	39	0	Ret i ed	04/21/2021

Plan View



Front View - Looking at Str t re



Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A6	LPA-80080-4CF	47.2	5.5	147	1		Fro t	39	0	Ret i ed	04/21/2021
R4	RF4461d-13A	15	15	147	1		Behi d	6	0	Added	
A1	MX06FRO660-03	71.3	15.4	123	2		Fro t	39	8.7	Added	
A1	MX06FRO660-03	71.3	15.4	123	2		Fro t	39	-8.7	Added	
R3	RF4439d-25A	15	15	123	2		Behi d	6	0	Added	
A2	MT6413-77A	28.9	15.8	32	4		Fro t	39	0	Added	
A6	LPA-80080-4CF	47.2	5.5	10	5		Fro t	39	0	Ret i ed	04/21/2021



MOUNT MODIFICATION DRAWINGS
EXISTING 12.92' PLATFORM

TOWER OWNER: AMERICAN TOWER CORPORATION
TOWER OWNER SITE NUMBER: 411179

CARRIER SITE NAME: COLCHESTER SOUTH CT
CARRIER SITE NUMBER: 5000121576
FUZE ID: 16272138

856 MIDDLETOWN ROAD
COLCHESTER, CT 06415
NEW LONDON COUNTY

LATITUDE: 41.55163300° N
LONGITUDE: 72.42579400° W



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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

SCALE: AS SHOWN JOB NUMBER: 21777720

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
1	02/05/24	ISSUED FOR CONSTRUCTION	NL	DX
0	02/06/24	ISSUED FOR CONSTRUCTION	CDH	JL

COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. JPC-0000131

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE NAME:
COLCHESTER SOUTH CT
5000121576
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415
NEW LONDON COUNTY

STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
ST-1

DESIGN CRITERIA
WIND LOADS BASIC WIND SPEED (3 SECOND GUST), V = 130 MPH EXPOSURE CATEGORY B TOPOGRAPHIC CATEGORY: I TOPOGRAPHIC CONSIDERED: N/A TOPOGRAPHIC METHOD: N/A MEAN BASE ELEVATION (AMSL) = 557.74'
ICE LOADS ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.00 IN
SEISMIC LOADS SEISMIC DESIGN CATEGORY B SHORT TERM MCER GROUND MOTION, S _s = .191 LONG TERM MCER GROUND MOTION, S _l = .053

PROJECT INFORMATION
APPLICANT/LESSEE COMPANY: VERIZON WIRELESS CLIENT REPRESENTATIVE COMPANY: VERIZON WIRELESS PROJECT MANAGER COMPANY: COLLIERS ENGINEERING & DESIGN CONTACT: PETER ALBANO PHONE: 856.797.0412 E-MAIL: PETER.ALBANO@COLLIERSENG.COM
CONTRACTOR PMI REQUIREMENTS PMI LOCATION: HTTPS://PMI.VZWSMART.COM SMART TOOL PROJECT #: 10221201 VZW MDG #: 5000121576 ANALYSIS DATE: 2/6/20024 PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX
SHEET DESCRIPTION
ST-1 TITLE SHEET
SBOM-1 BILL OF MATERIALS
SGN-1 GENERAL NOTES
SCF-1 CLIMBING FACILITY DETAIL
SS-1 MODIFICATION DETAILS
SS-2 MOUNT PHOTOS
SPECIFICATION SHEETS

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BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK1	SUPPORT RAIL KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	504	504
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	291	291
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
3		VZWSMART-MSK1	CROSSOVER PLATE		14	42

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)

SECTION 3 - REQUIRED SAFETY CLIMB PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
TOTAL:						987

NOTES:

- THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
- ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM



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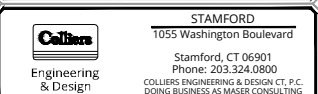
SCALE: AS SHOWN JOB NUMBER: 21777720

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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0	02/06/24	ISSUED FOR CONSTRUCTION	CDH	JL

COLLIERS ENGINEERING & DESIGN CT, P.C.
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SITE NAME:
COLCHESTER SOUTH CT
5000121576
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415
NEW LONDON COUNTY



BILL OF MATERIALS

SHEET NUMBER: **SBOM-1**

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

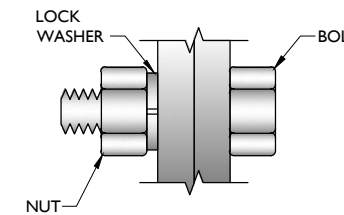
STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - AISC CODE OF STANDARD PRACTICE
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE
- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO
PETER.ALBANO@COLLIERSENG.COM
 - PROVIDE COLLIERS ENGINEERING & DESIGN PROJECT # AND COLLIERS ENGINEERING & DESIGN PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINC COTE, OR EOR APPROVED EQUAL), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

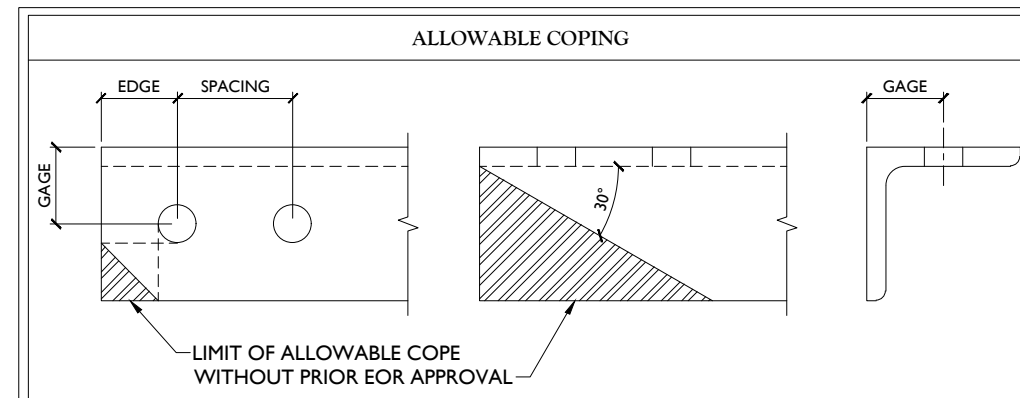
WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

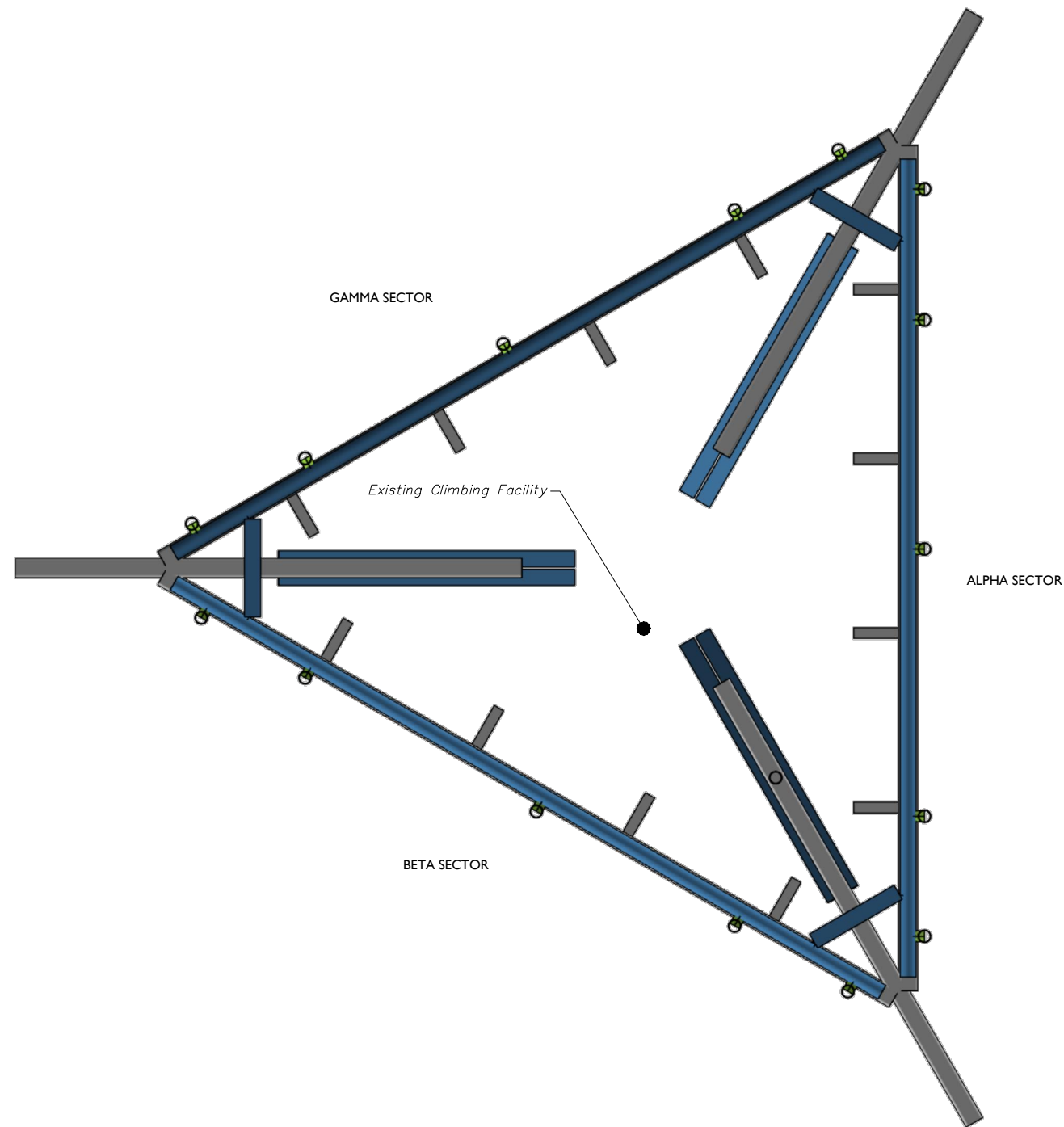
NOTES:

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
- MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



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0	02/06/24	ISSUED FOR CONSTRUCTION	CDH / JL



1 CLIMBING FACILITY LOCATION
SCALE : N.T.S.

CLIMBING FACILITY PHOTO

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY ELITE ICT ON 4/21/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (178'-6") ARE IN GOOD CONDITION. COLLIERS ENGINEERING & DESIGN DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



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5000121576
856 MIDDLETOWN ROAD
COLCHESTER, CT 06415
NEW LONDON COUNTY

Colliers Engineering & Design
STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
CLIMBING FACILITY DETAIL

SHEET NUMBER:
SCF-1

LEGEND:

- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1		1	PROPOSED SUPPORT RAIL KIT (PART #: VZWSMART-PLK1)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN.
2	178'-6"	1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5)	CONTRACTOR SHALL REMOVE EXISTING RADIO COLLAR MOUNT AND ALL ASSOCIATED HARDWARE. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7). SEE GENERAL NOTE B.
3		3	PROPOSED CROSSOVER KIT (PART #: VZWSMART-MSK1)	CONTRACTOR TO INSTALL CROSSOVER KITS ONTO POSITION 5 OF EACH SECTOR CONNECTING TO NEW SUPPORT RAIL PIPE.

GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY THAT NEW & EXISTING STEEL IS FREE OF CORROSION. VISIBLE MINOR CORROSION SHALL BE WIRE BRUSHED CLEAN AND TREATED WITH COLD GALVANIZATION. REPORT ANY SIGNIFICANT CORROSION TO EOR
- B. THREADED ROD FROM PROPOSED KITS SHALL BE TRIMMED TO EXTEND NO MORE THAN 3" BEYOND THE LOCK NUT. TREAT ALL CUT ENDS WITH (2) COATS OF COLD GALVANIZATION (ZINC KOTE, OR EOR APPROVED EQUAL).
- C. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



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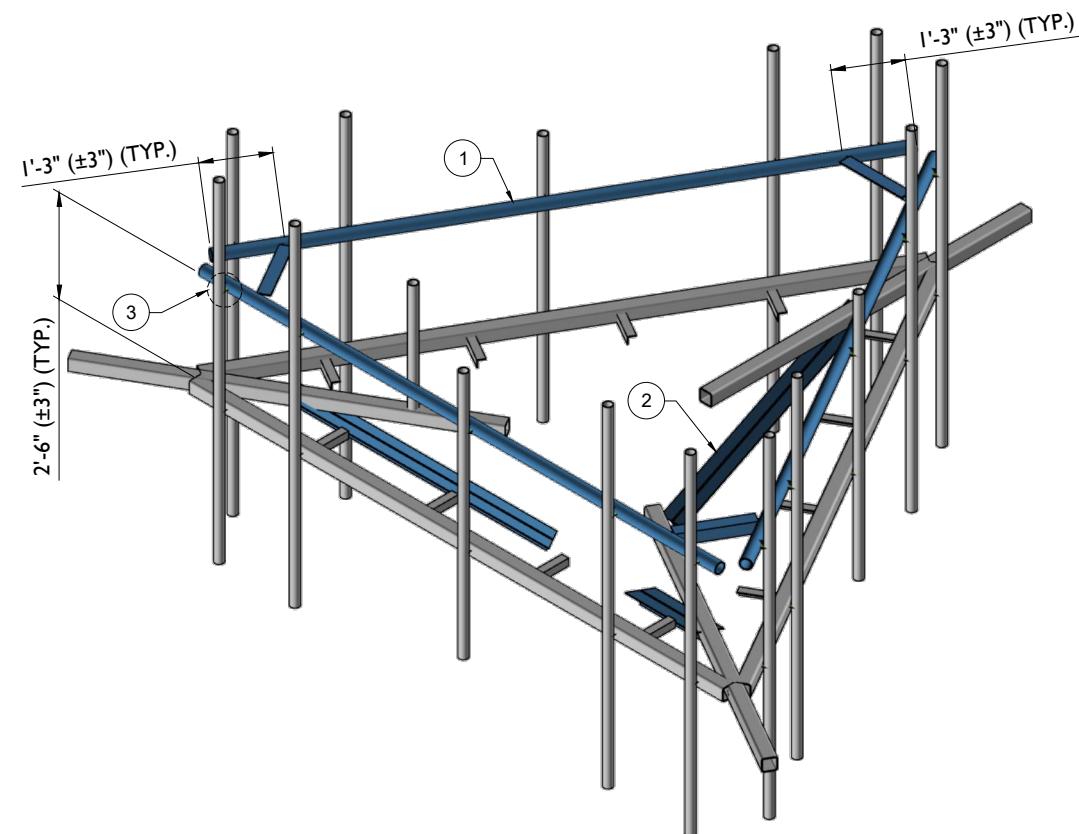
SITE NAME:

**COLCHESTER SOUTH CT
5000121576**
**856 MIDDLETOWN ROAD
COLCHESTER, CT 06415
NEW LONDON COUNTY**

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MODIFICATION DETAILS

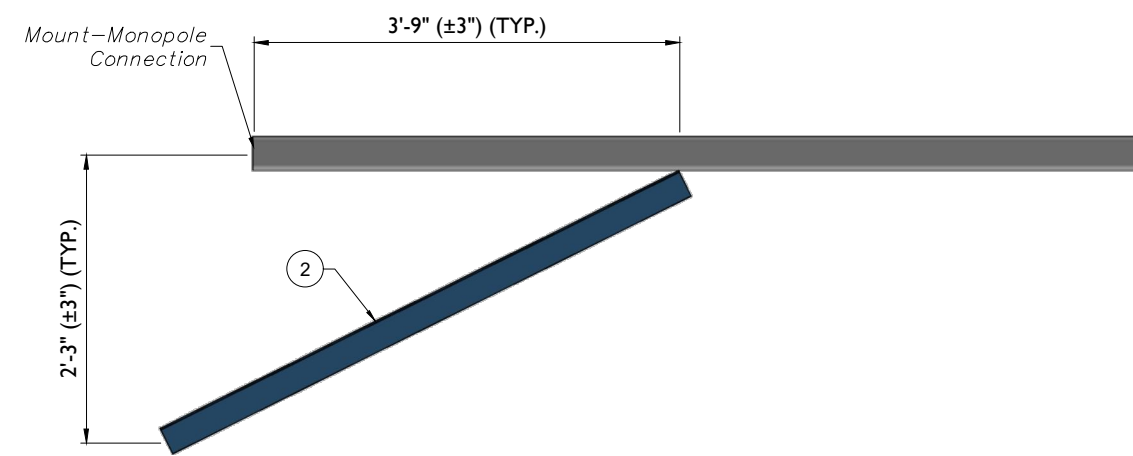
SHEET NUMBER: **SS-1**



1

PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



2

PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.



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SHEET TITLE:
MOUNT PHOTOS

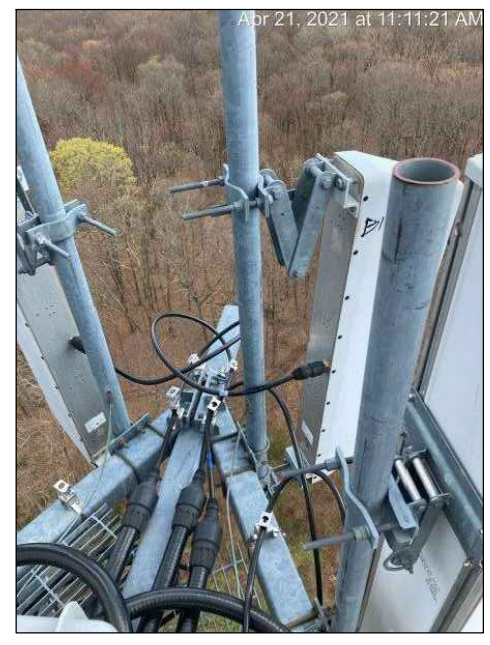
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SS-2



MOUNT PHOTO 1



MOUNT PHOTO 2



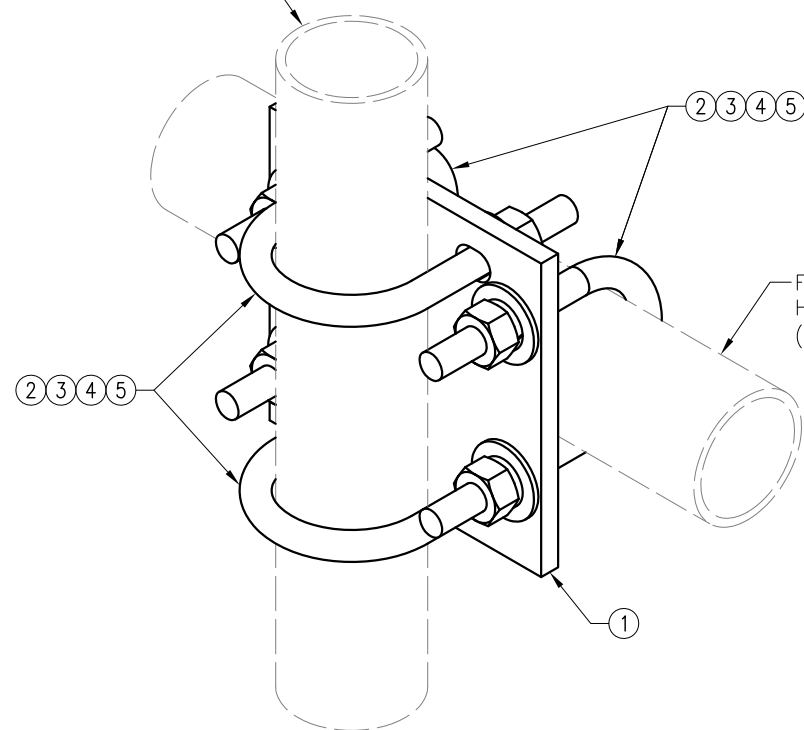
MOUNT PHOTO 3



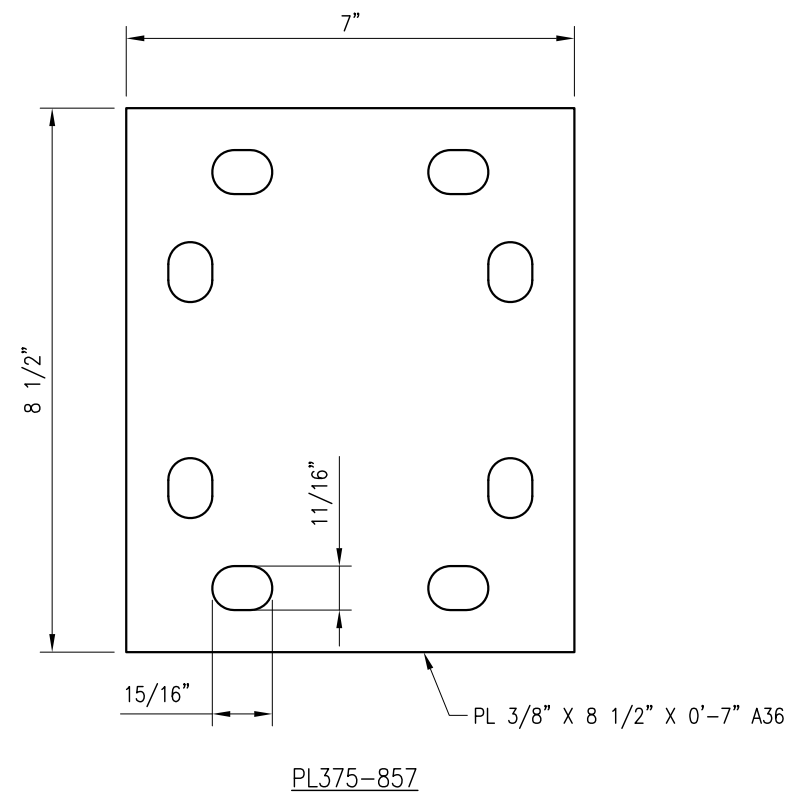
MOUNT PHOTO 4



FITS 2.375" O.D. AND 2.875" O.D.
 VERTICAL PIPE.
 (NOT INCLUDED IN THIS KIT)



FITS 2.375" O.D. AND 2.875" O.D.
 HORIZONTAL PIPE.
 (NOT INCLUDED IN THIS KIT)



NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					14

DRAWN BY: H.R. CHECKED BY: HMA

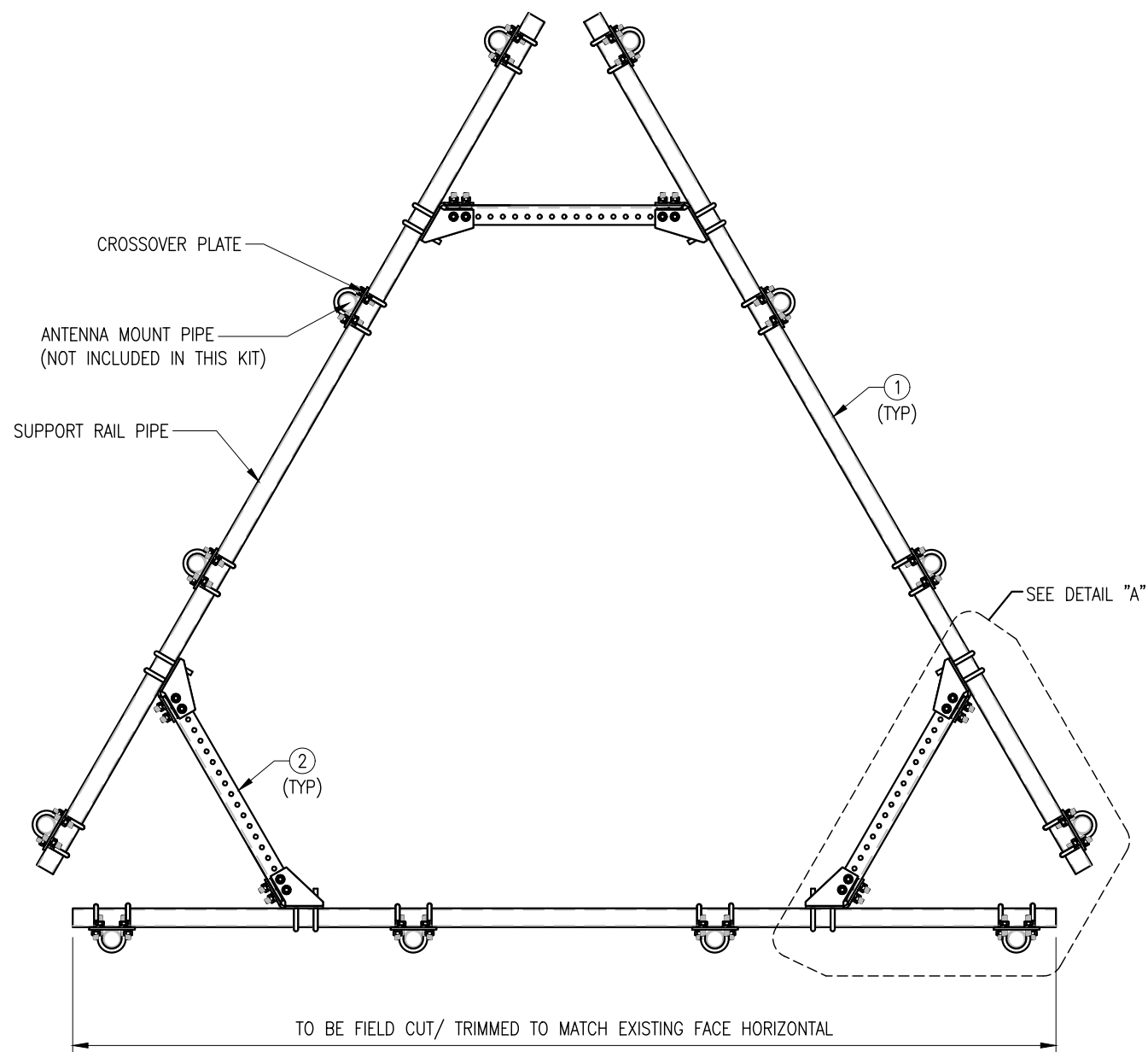
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R.	05/08/20

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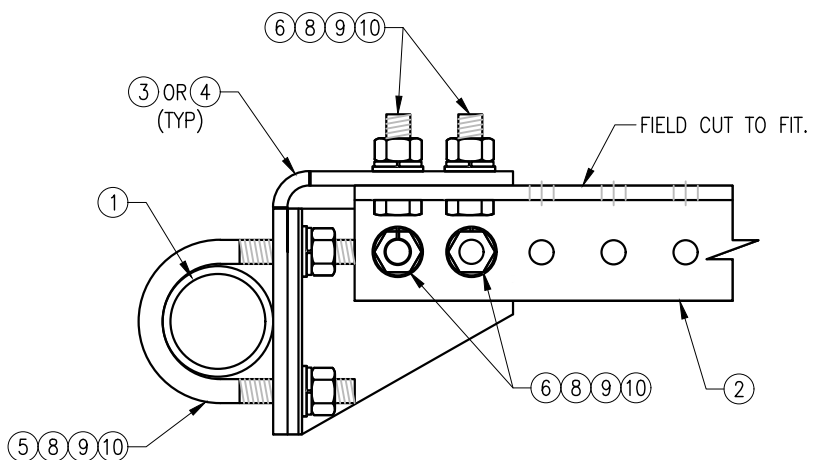
VZSMART-MSK1
 CROSSOVER PLATE

SHEET NUMBER: REV #:

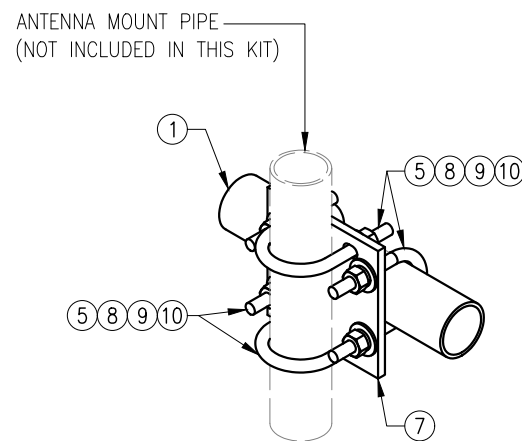
VZSMART-MSK1 0



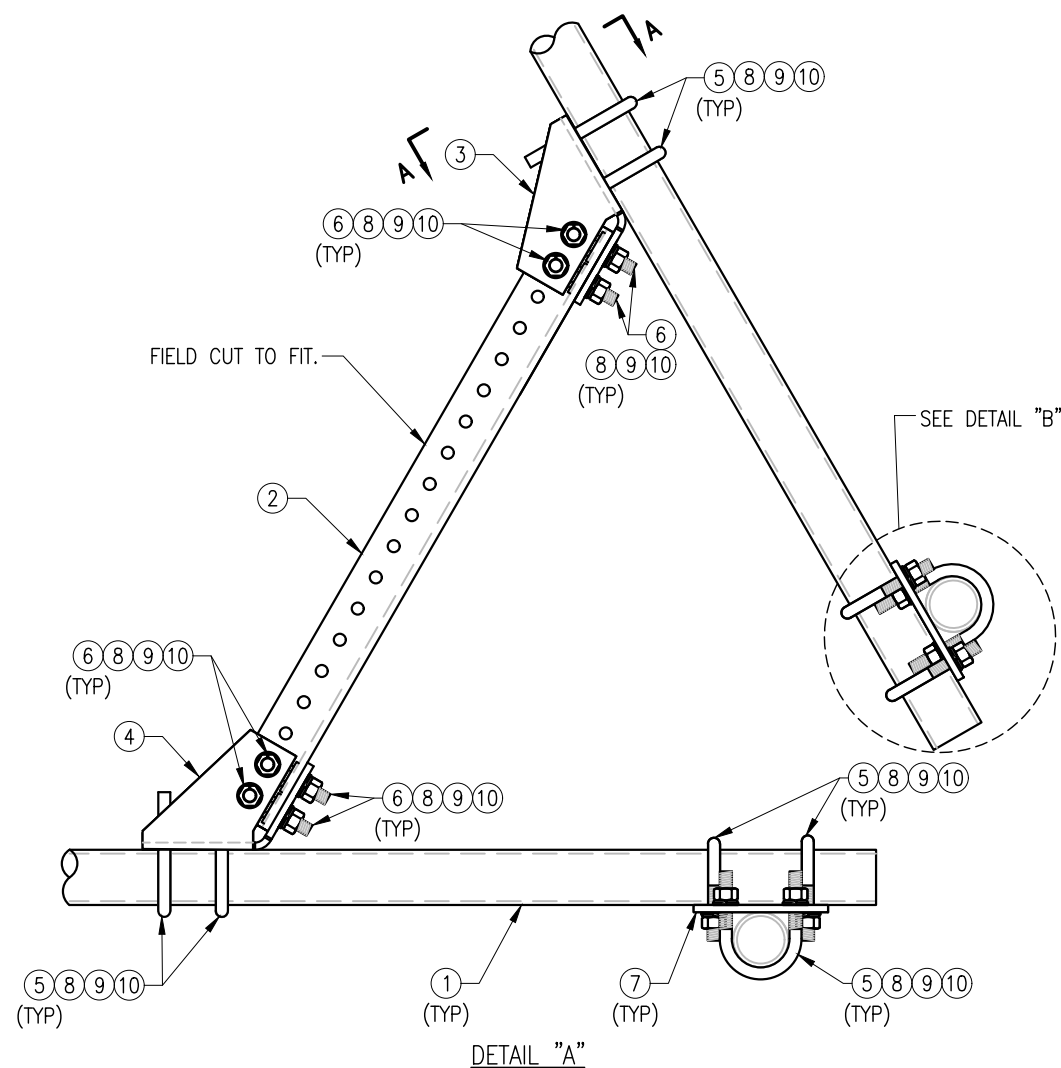
PLAN VIEW



SECTION "A-A"



DETAIL "B"



DETAIL "A"

NOTES:

1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZW SMART-PLK1 (SUPPORT RAIL KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	PLK1-F1	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	PLK1-F1	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	PLK1-F2	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	PLK1-F2	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	82
6	24	---	BOLT 5/8" X 2" A325	---	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	PLK1-F3	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	---	12
9	144	LW-625	5/8" HDG LOCK WASHER	---	3
10	144	NUT-625	5/8" HDG HEX NUT	---	17
GALVANIZED WT					504

DRAWN BY: H.R. CHECKED BY: HMA

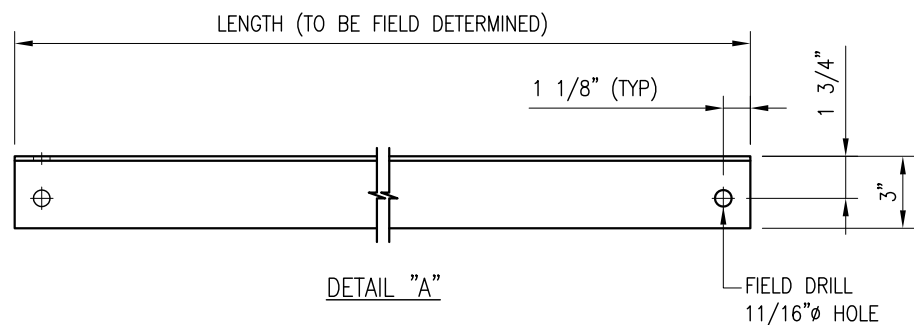
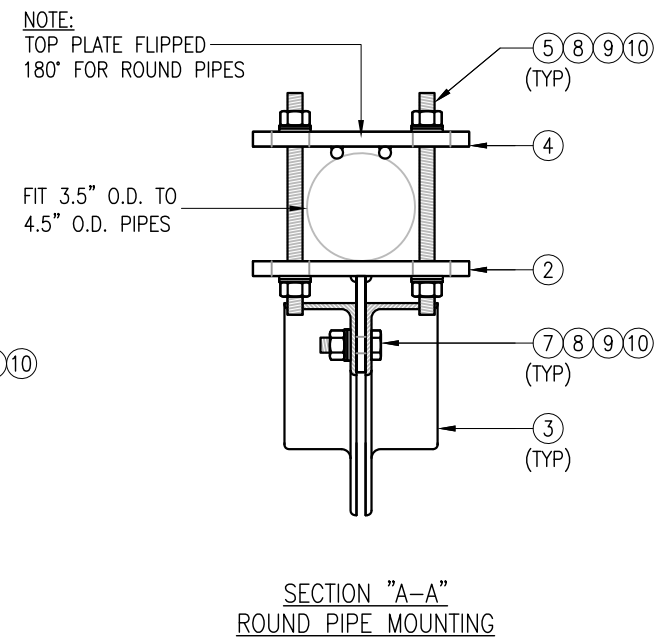
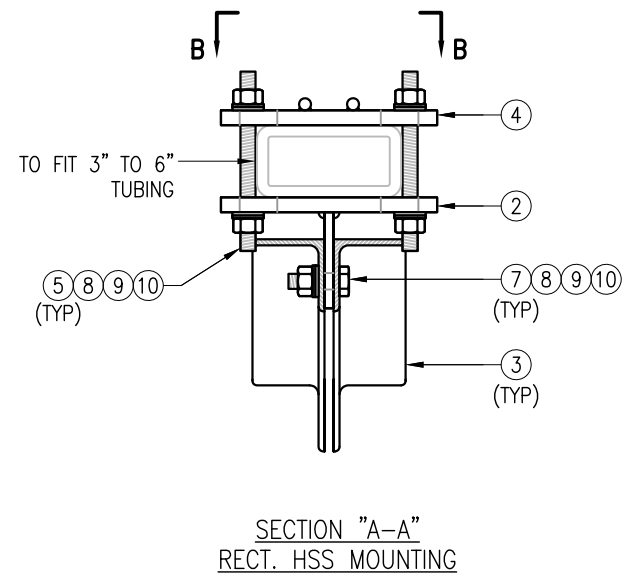
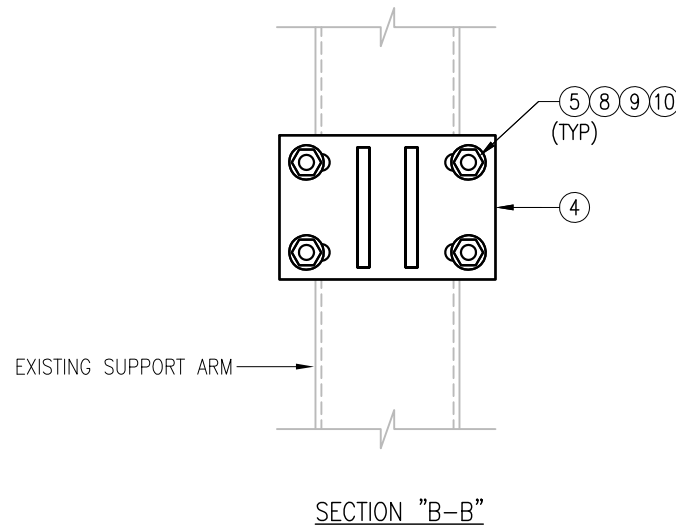
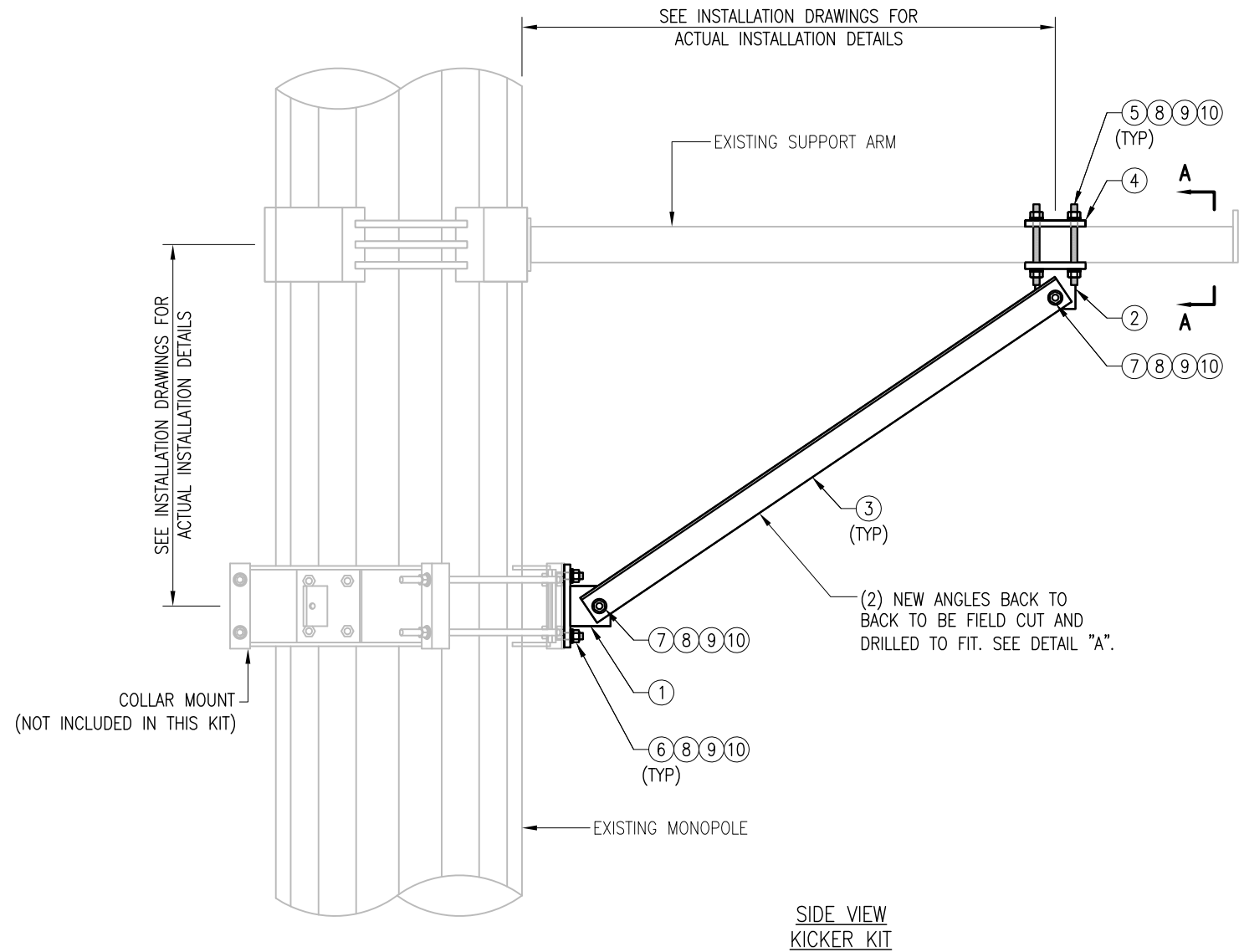
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	H.R.	05/08/20
△			
△			
△			

SHEET TITLE:

VZWSMART-PLK1
 SUPPORT RAIL KIT

SHEET NUMBER: VZWSMART-PLK1 REV #: 0

NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



VZSMART-PLK5 (KICKER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW-XXX	BRACKET WELDMENT A36	PLK5-F3	43.8
2	3	BRKW-XXXX	BRACKET WELDMENT A36	PLK5-F2	35.7
3	6	L331875-8	L 3" X 3" X 3/16" X 8'-0" A36	PLK5-F4	182.9
4	3	PL-KI	PL 5/8" X 6" X 9" A36	PLK5-F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'-0" F1554-36 HDG	---	---
6	6	---	BOLT 5/8" X 2" A325	---	---
7	12	---	BOLT 5/8" X 2 1/2" A325	---	---
8	42	FW-625	5/8" HDG USS FLAT WASHER	---	3
9	42	LW-625	5/8" HDG LOCK WASHER	---	1
10	42	NUT-625	5/8" HDG HEX NUT	---	5
GALVANIZED WT					291

NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT-DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

VzW
SMART Tool[®]
Vendor

verizon[✓]

DRAWN BY: MN CHECKED BY: HMA/KW

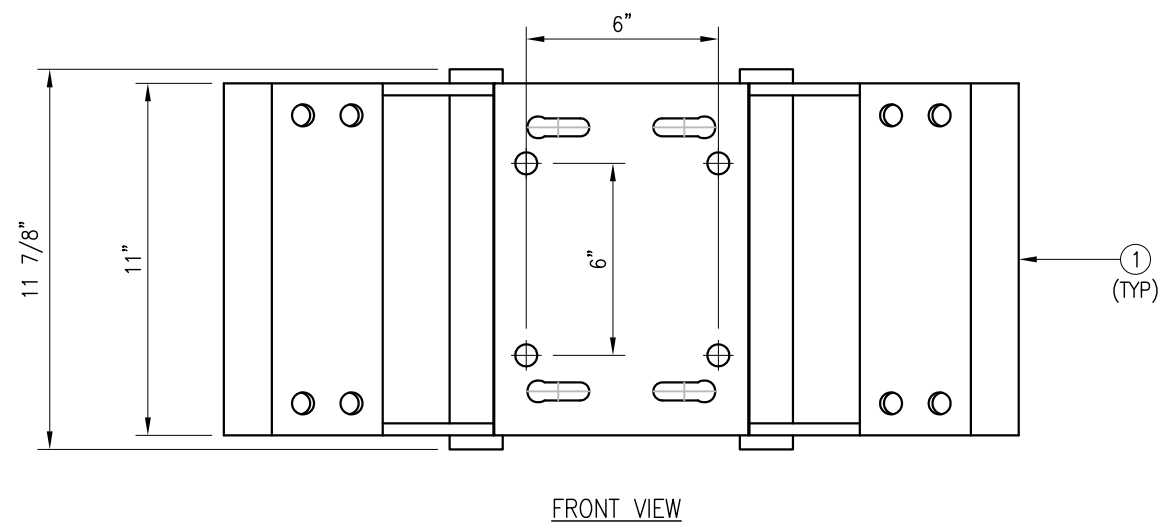
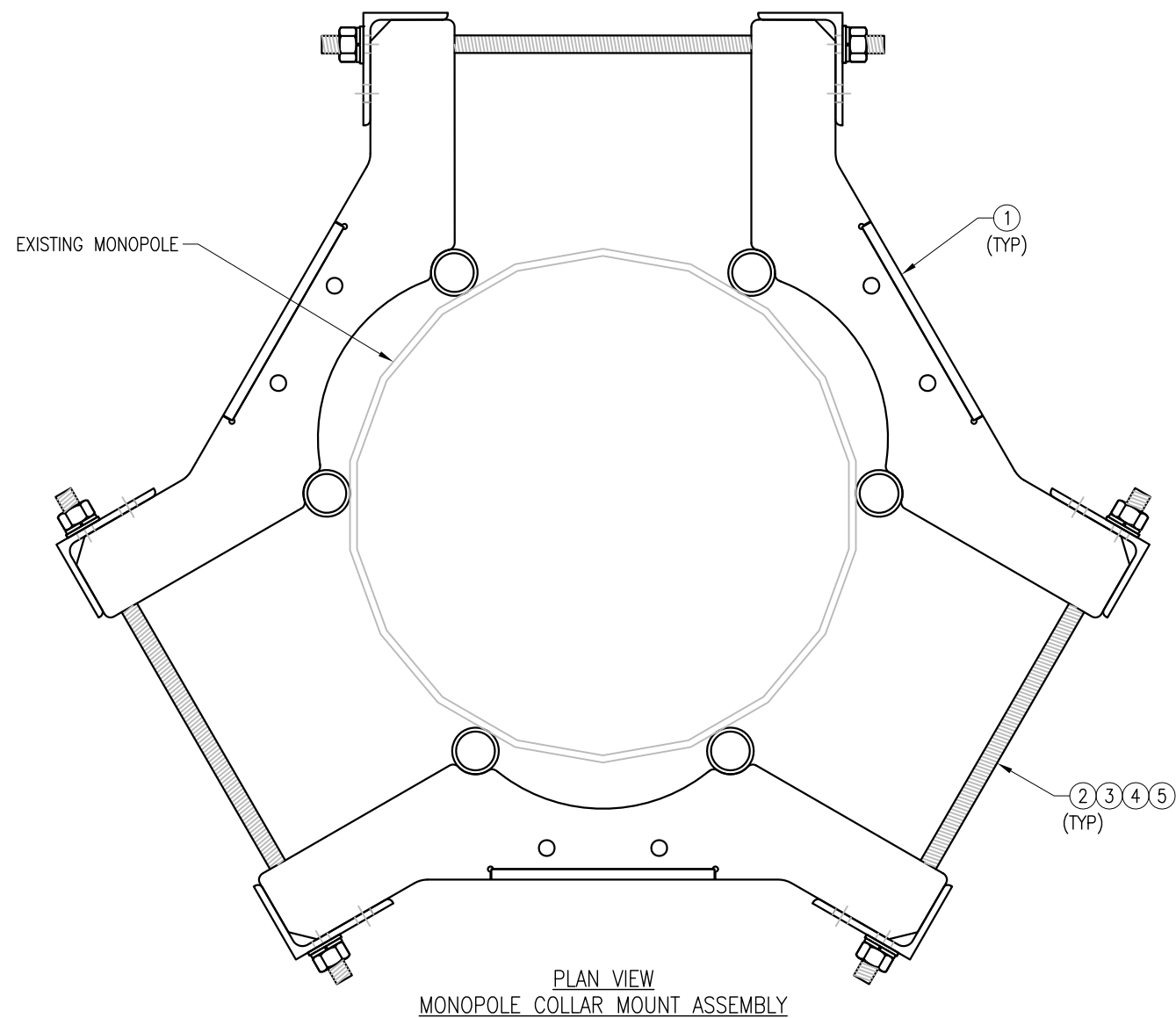
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	MN	05/08/20
△			
△			
△			

SHEET TITLE:

VZSMART-PLK5
KICKER KIT

SHEET NUMBER: REV #:

VZSMART-PLK5 0



- NOTES:**
 1. FIT 12" TO 45" DIA MONOPOLE.
 2. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					150

DRAWN BY: BT CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
 VZSMART-PLK7
 MONOPOLE COLLAR
 MOUNT ASSEMBLY


SHEET NUMBER: VZSMART-PLK7 REV #: 0

Apr 21, 2021 at 11:36:07 AM



Apr 21, 2021 at 11:11:13 AM



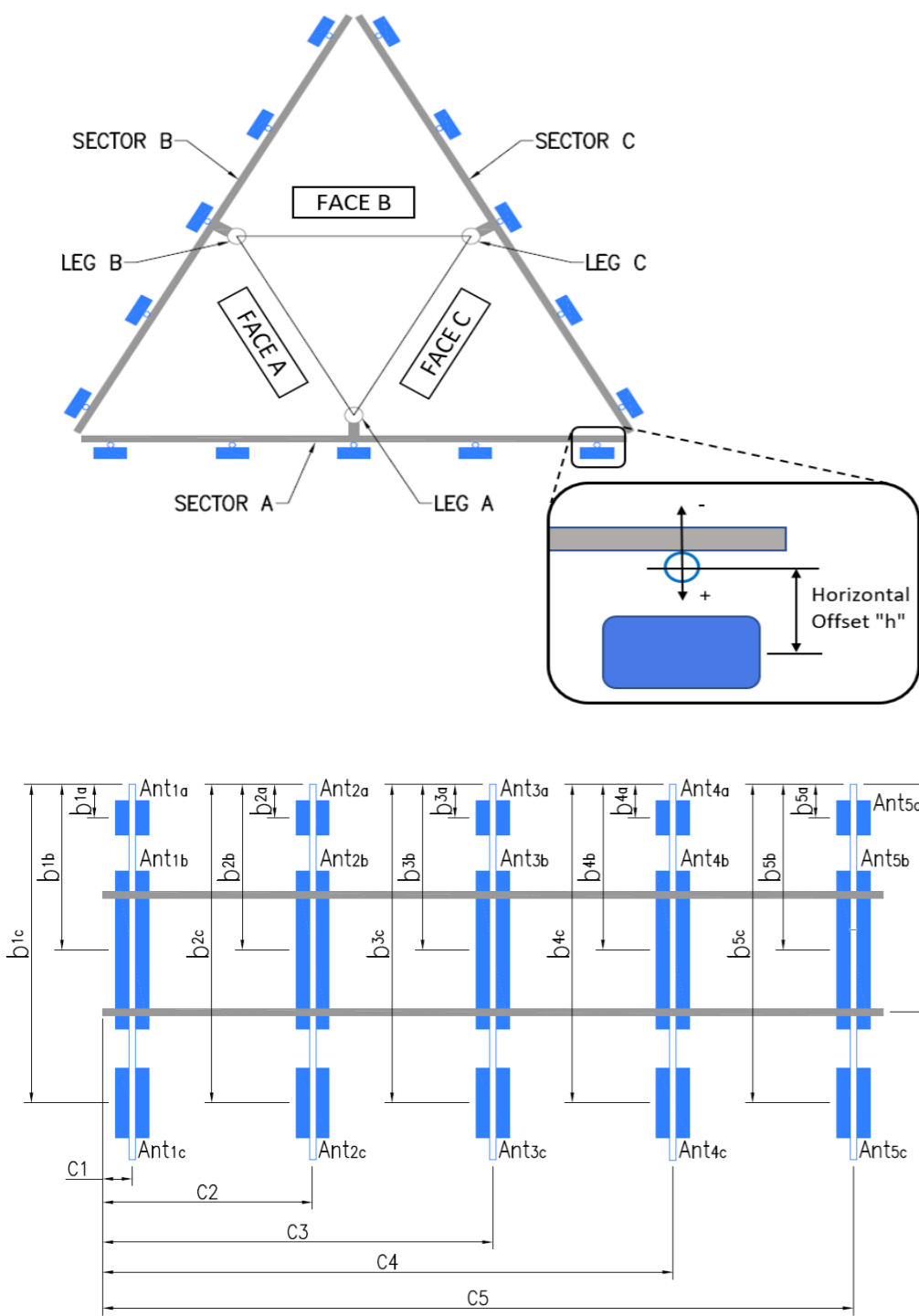
	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
				not required
	Tower Owner:	AMERICAN TOWER	Mapping Date:	4/21/2021
	Site Name:	COLCHESTER SOUTH	Tower Type:	Monopole
Site Number or ID:	41179	Tower Height (Ft.):	185	
Mapping Contractor:	ELITE ICT	Mount Elevation (Ft.):	185	

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Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

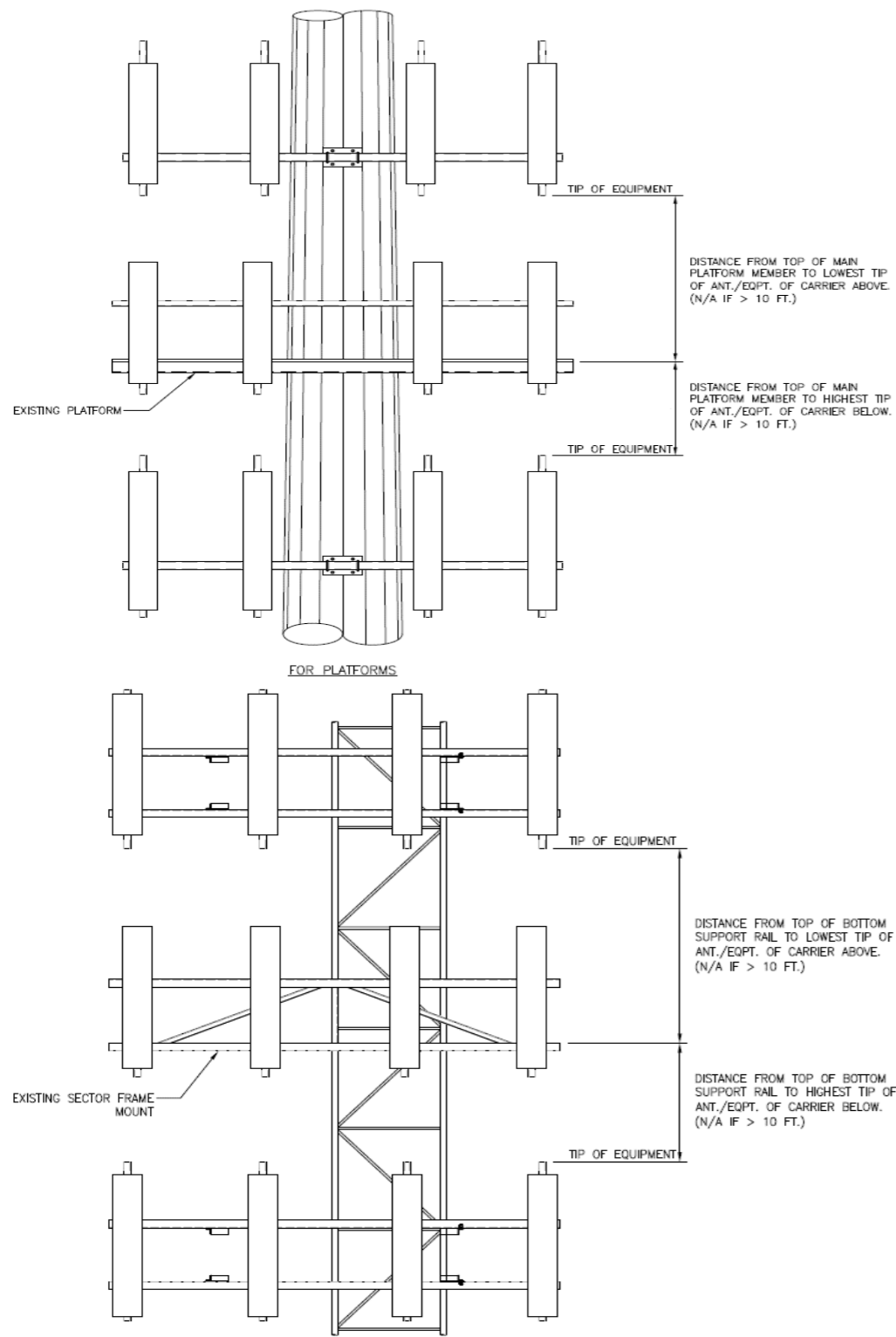
Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	96 x 2.38 STD P	58.50	8.00	C1	96 x 2.38 STD P	58.00	8.00
A2	96 X2.38 STD P	58.00	32.00	C2	96 X2.38 STD P	58.00	32.00
A3	72 X 2.38 STD P	45.50	74.00	C3	72 X 2.38 STD P	45.50	74.00
A4	96X2.38 STD P	58.00	123.00	C4	96X2.38 STD P	58.00	123.00
A5	96 X 2.38 STD P	58.00	145.00	C5	96 X 2.38 STD P	58.00	145.00
A6				C6			
B1	96 x 2.38 STD P	58.00	8.00	D1			
B2	96 X2.38 STD P	58.00	32.00	D2			
B3	72 X 2.38 STD P	45.50	74.00	D3			
B4	96X2.38 STD P	58.00	123.00	D4			
B5	96 X 2.38 STD P	58.00	145.00	D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							0.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):							18
Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):							4-Mar
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.							

Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]				Photos of antennas Photo Numbers
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	
Sector A										
Ant _{1a}	LPA-80080-4CF-EDIN	6.00	13.50	48.00		186.208	44.00	16.00	40.00	33
Ant _{1b}										
Ant _{1c}										
Ant _{2a}	UNKNOWN	12.00	7.00	72.00		186.167	44.00	6.00	10.00	34
Ant _{2b}										
Ant _{2c}										
Ant _{3a}	UNKNOWN	12.00	7.00	72.00		185.792	36.00	8.00	110.00	39
Ant _{3b}										
Ant _{3c}										
Ant _{4a}	UNKNOWN	12.00	7.00	72.00		186.833	36.00	6.00	120.00	40
Ant _{4b}										
Ant _{4c}										
Ant _{5a}	LPA-80080-4CF-EDIN	6.00	13.00	48.00		186.167	44.00	16.00	335.00	42
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower	B4-RRH	10.00	6.00	36.00						
Sector B										
Ant _{1a}	LPA-80080-4CF-EDIN	6.00	13.00	48.00		186.167	44.00	16.00	185.00	98
Ant _{1b}										
Ant _{1c}										
Ant _{2a}	UNKNOWN	12.00	7.00	72.00		186.167	44.00	6.00	150.00	97
Ant _{2b}										
Ant _{2c}										
Ant _{3a}	UNKNOWN	12.00	7.00	72.00		185.792	36.00	8.00	140.00	96
Ant _{3b}										
Ant _{3c}										
Ant _{4a}	UNKNOWN	12.00	7.00	72.00		186.833	36.00	6.00	200.00	93
Ant _{4b}										
Ant _{4c}										
Ant _{5a}	LPA-80080-4CF-EDIN	6.00	13.00	48.00		186.167	44.00	16.00	180.00	92
Ant _{5b}										
Ant _{5c}										

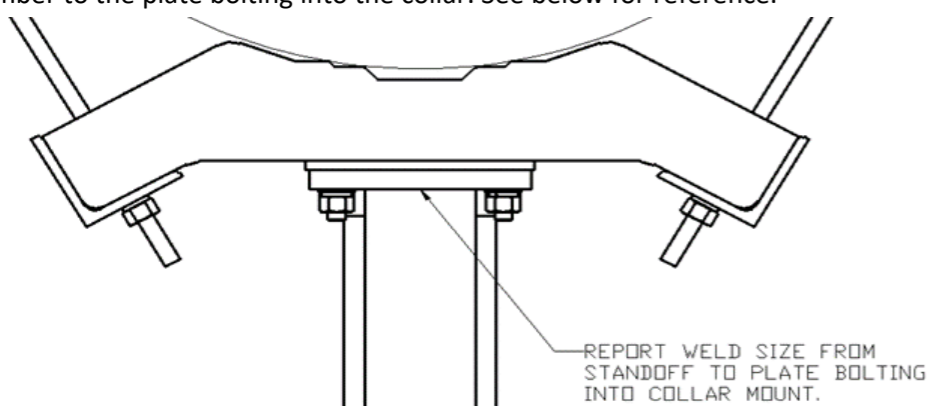


Antenna Layout (Looking Out From Tower)			
Mount Azimuth (Degree) for Each Sector		Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	20.00 Deg	Leg A:	
Sector B:	140.00 Deg	Leg B:	
Sector C:	260.00 Deg	Leg C:	
Sector D:		Leg D:	
Climbing Facility Information			
Location:	260.00 Deg	Other	
Climbing Facility	Corrosion Type:	Good condition.	
	Access:	Climbing path was obstructed.	
	Condition:	Good condition.	

Please insert a photo of the mount centerline measurement here.



For T-Arms/Platforms on monopoles, record the weld size from the main standoff member to the plate bolting into the collar. See below for reference.



Ant on Standoff										
Ant on Standoff										
Ant on Tower	RFDC-3315-PF-48	14.00	8.00	21.00						
Ant on Tower	B4-RRH	10.00	6.00	36.00						
Sector C										
Ant _{1a}	LPA-80080-4CF-EDIN	6.00	3.00	48.00		186.167	44.00	16.00	270.00	87
Ant _{1b}										
Ant _{1c}										
Ant _{2a}	UNKNOWN	12.00	7.00	72.00		186.167	44.00	6.00	275.00	86
Ant _{2b}										
Ant _{2c}										
Ant _{3a}	UNKNOWN	12.00	7.00	72.00		185.792	36.00	8.00	270.00	85
Ant _{3b}										
Ant _{3c}										
Ant _{4a}	UNKNOWN	12.00	7.00	72.00		186.833	36.00	6.00	185.00	82
Ant _{4b}										
Ant _{4c}										
Ant _{5a}	LPA-80080-4CF-EDIN	6.00	3.00	48.00		186.167	44.00	16.00	320.00	84
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RFDC-3315-PF-48	14.00	8.00	21.00						
Ant on Tower	B4-RRH	10.00	6.00	36.00						
Sector D										
Ant _{1a}										
Ant _{1b}										
Ant _{1c}										
Ant _{2a}										
Ant _{2b}										
Ant _{2c}										
Ant _{3a}										
Ant _{3b}										
Ant _{3c}										
Ant _{4a}										
Ant _{4b}										
Ant _{4c}										
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Observed Safety and Structural Issues During the Mount Mapping

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

Observed Obstructions to Tower Lighting System

If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.				Photo #
Description of Obstruction:				
Type of Light:	Photo #	Additional Comments:		

Lighting Technology:		Photo #	
Elevation (AGL) at base of light (Ft.):		Photo #	
Is a service loop available?		Photo #	
Is beacon installed on an extension?		Photo #	

Mapping Notes

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

Standard Conditions

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



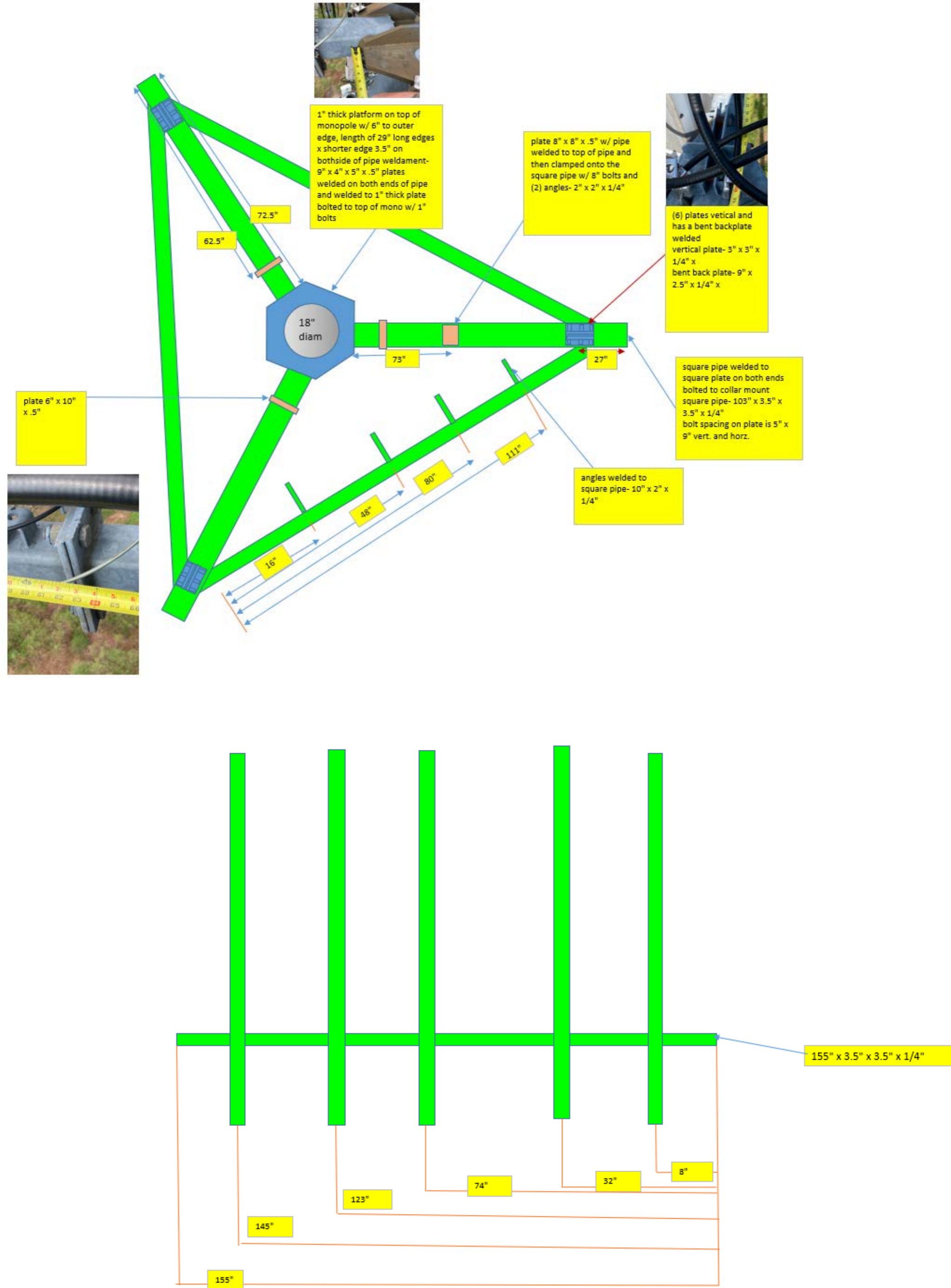
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
not required

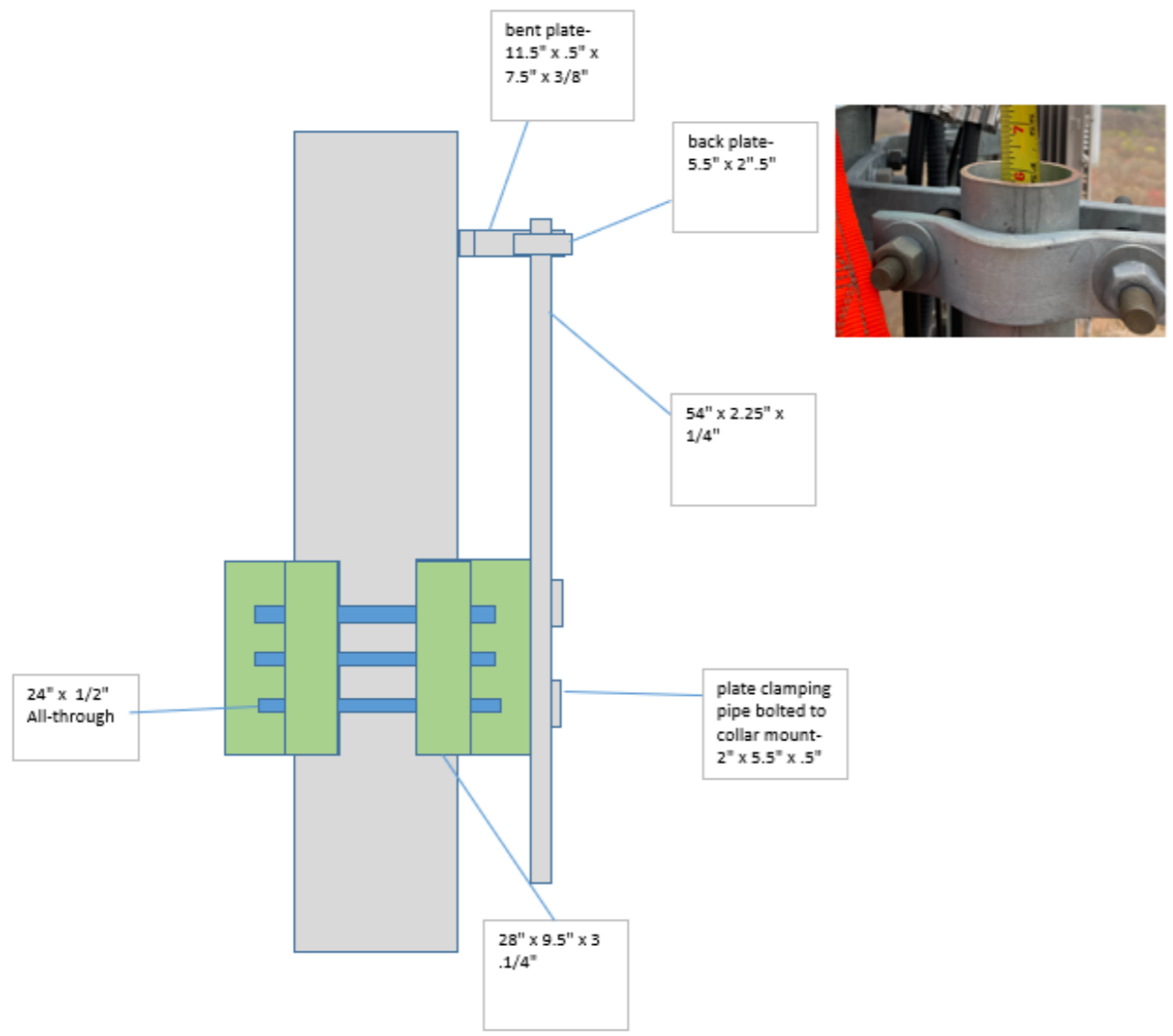
Tower Owner:	AMERICAN TOWER	Mapping Date:	4/21/2021
Site Name:	COLCHESTER SOUTH	Tower Type:	Monopole
Site Number or ID:	41179	Tower Height (Ft.):	185
Mapping Contractor:	ELITE ICT	Mount Elevation (Ft.):	185

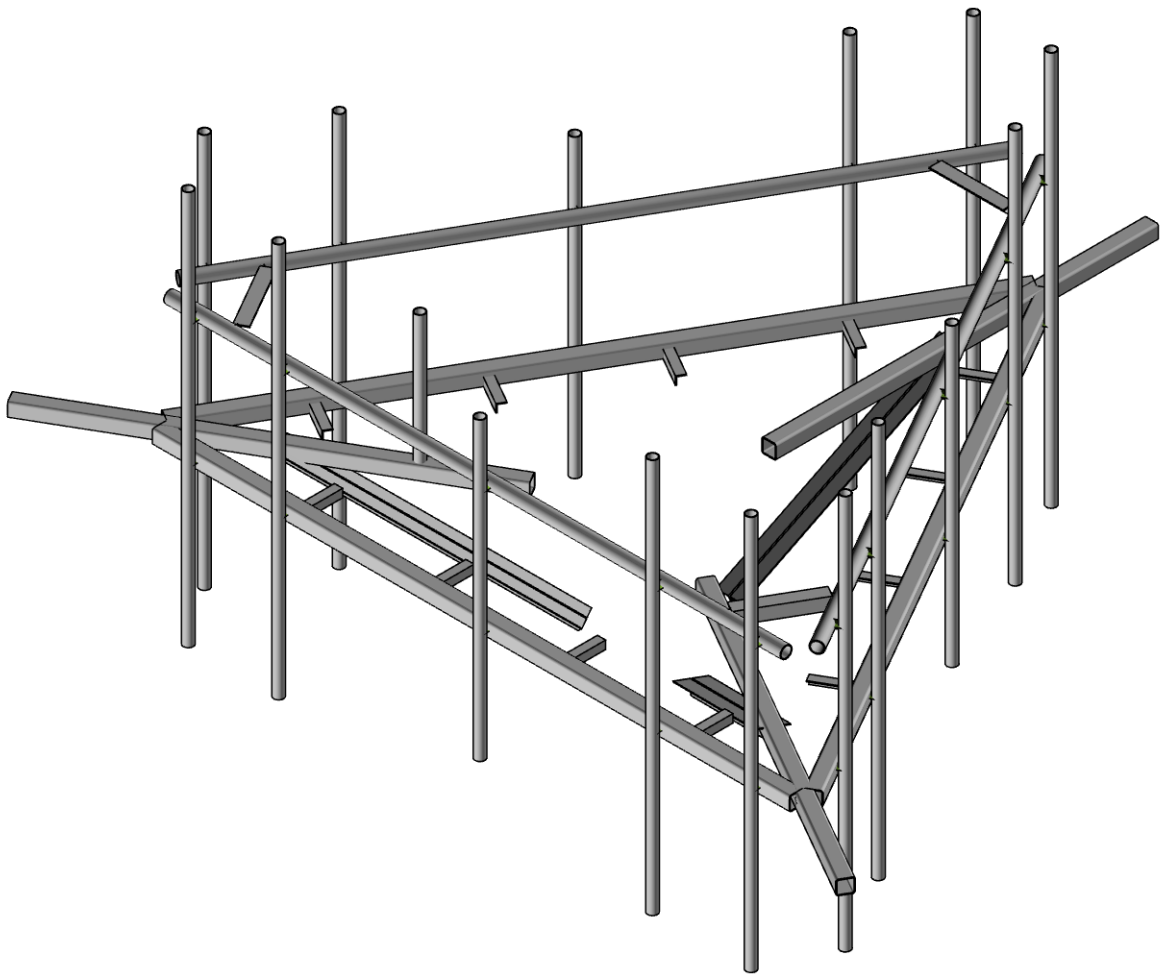
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Please Insert Sketches of the Antenna Mount



Please Insert Sketches of the Antenna Mount, cont'd





Envelope Only Solution



Colliers Engineering & De...

NL

2177720 (Rev. 1)

Mount Fix

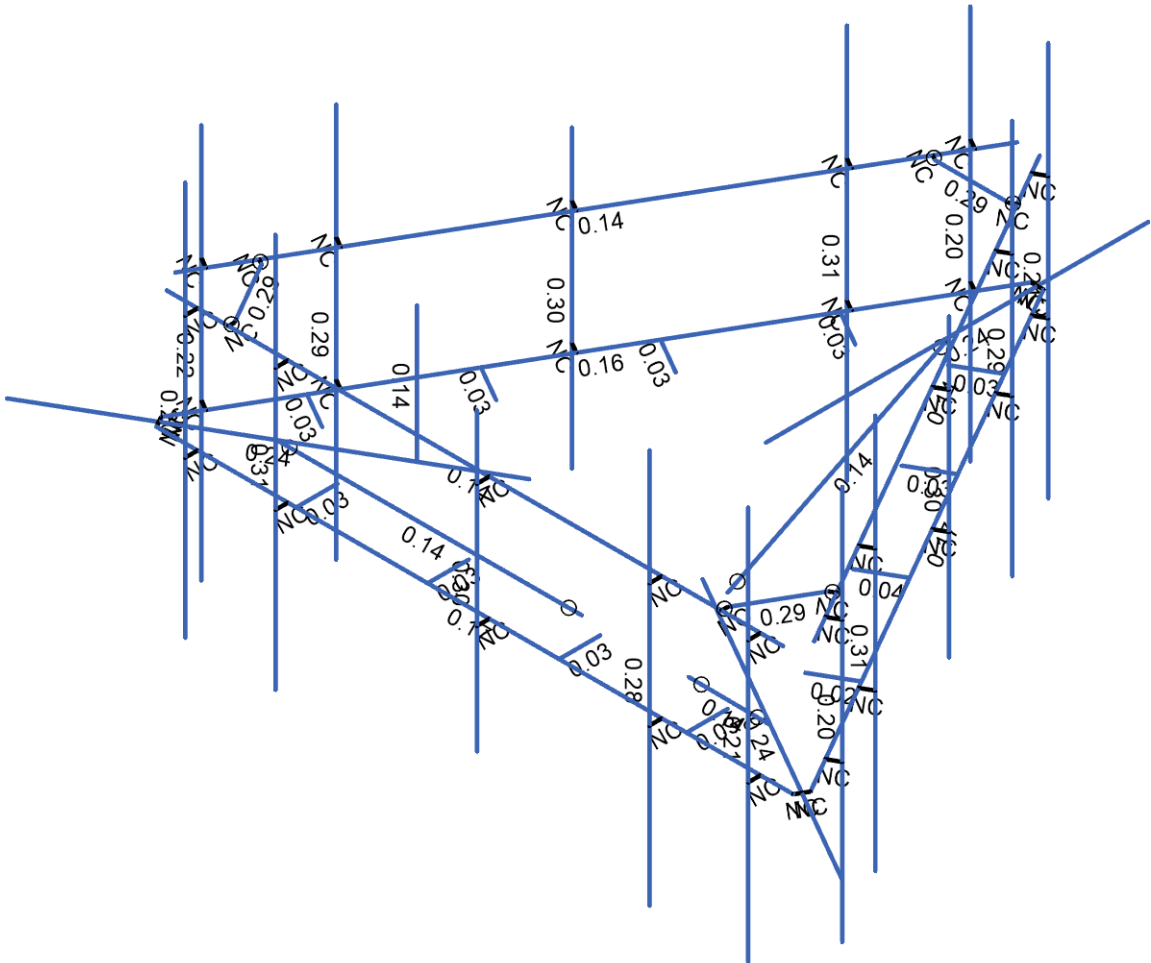
SK-1

Feb 05, 2024 at 09:32 AM


5000121576-VZW_MT_LO_...



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



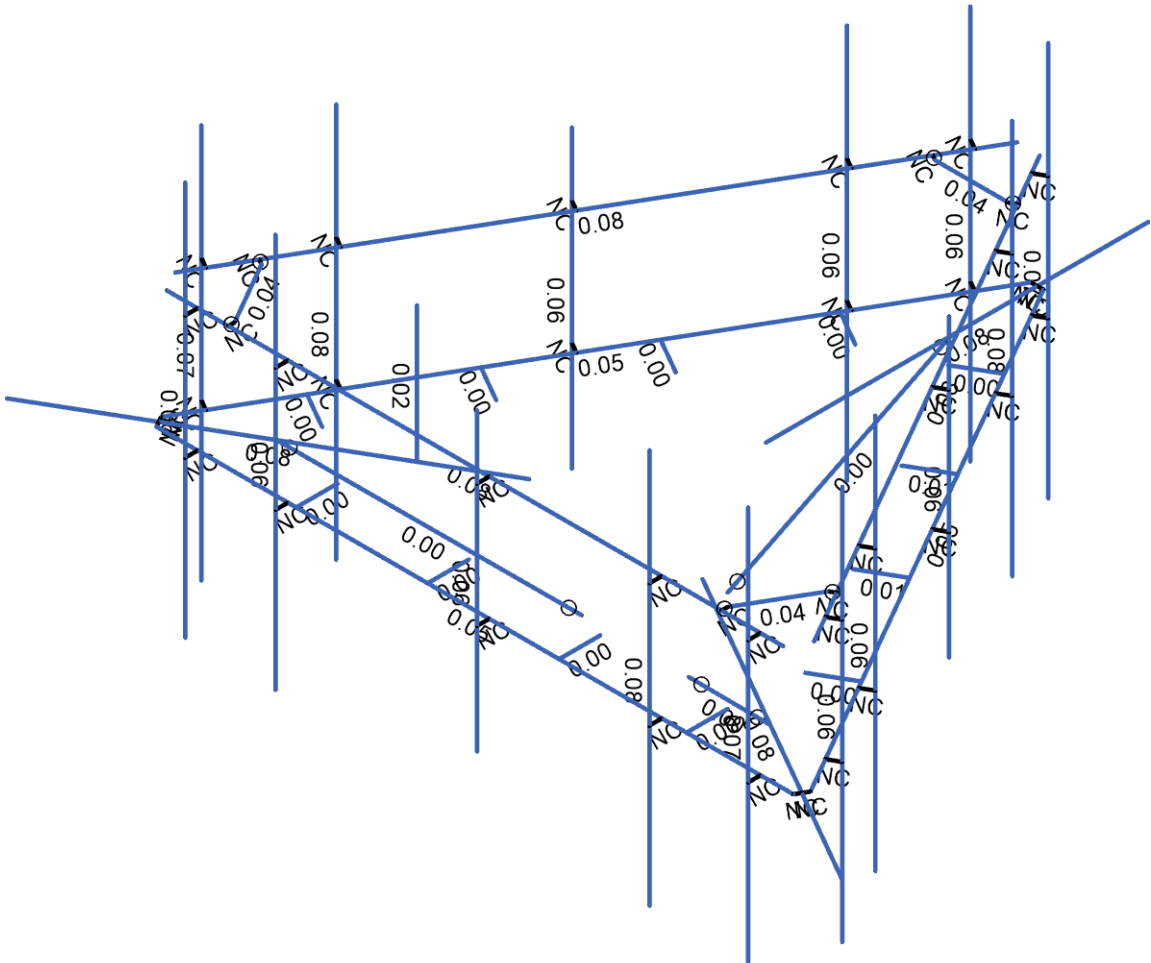
Member Code Checks Displayed (Enveloped)
Envelope Only Solution

	Colliers Engineering & De...	Mount Fix	SK-2
	NL		Feb 05, 2024 at 09:32 AM
	21777720 (Rev. 1)		5000121576-VZW_MT_LO_...




Shear Check (Env)

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



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

	Colliers Engineering & De...	Mount Fix	SK-3
	NL		Feb 05, 2024 at 09:32 AM
	21777720 (Rev. 1)		5000121576-VZW_MT_LO_...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
1	Antenna D	None				111		
2	Antenna Di	None				111		
3	Antenna Wo (0 Deg)	None				111		
4	Antenna Wo (30 Deg)	None				111		
5	Antenna Wo (60 Deg)	None				111		
6	Antenna Wo (90 Deg)	None				111		
7	Antenna Wo (120 Deg)	None				111		
8	Antenna Wo (150 Deg)	None				111		
9	Antenna Wo (180 Deg)	None				111		
10	Antenna Wo (210 Deg)	None				111		
11	Antenna Wo (240 Deg)	None				111		
12	Antenna Wo (270 Deg)	None				111		
13	Antenna Wo (300 Deg)	None				111		
14	Antenna Wo (330 Deg)	None				111		
15	Antenna Wi (0 Deg)	None				111		
16	Antenna Wi (30 Deg)	None				111		
17	Antenna Wi (60 Deg)	None				111		
18	Antenna Wi (90 Deg)	None				111		
19	Antenna Wi (120 Deg)	None				111		
20	Antenna Wi (150 Deg)	None				111		
21	Antenna Wi (180 Deg)	None				111		
22	Antenna Wi (210 Deg)	None				111		
23	Antenna Wi (240 Deg)	None				111		
24	Antenna Wi (270 Deg)	None				111		
25	Antenna Wi (300 Deg)	None				111		
26	Antenna Wi (330 Deg)	None				111		
27	Antenna Wm (0 Deg)	None				111		
28	Antenna Wm (30 Deg)	None				111		
29	Antenna Wm (60 Deg)	None				111		
30	Antenna Wm (90 Deg)	None				111		
31	Antenna Wm (120 Deg)	None				111		
32	Antenna Wm (150 Deg)	None				111		
33	Antenna Wm (180 Deg)	None				111		
34	Antenna Wm (210 Deg)	None				111		
35	Antenna Wm (240 Deg)	None				111		
36	Antenna Wm (270 Deg)	None				111		
37	Antenna Wm (300 Deg)	None				111		
38	Antenna Wm (330 Deg)	None				111		
39	Structure D	None		-1				3
40	Structure Di	None					43	3
41	Structure Wo (0 Deg)	None					86	
42	Structure Wo (30 Deg)	None					86	
43	Structure Wo (60 Deg)	None					86	
44	Structure Wo (90 Deg)	None					86	
45	Structure Wo (120 Deg)	None					86	
46	Structure Wo (150 Deg)	None					86	
47	Structure Wo (180 Deg)	None					86	
48	Structure Wo (210 Deg)	None					86	
49	Structure Wo (240 Deg)	None					86	
50	Structure Wo (270 Deg)	None					86	
51	Structure Wo (300 Deg)	None					86	
52	Structure Wo (330 Deg)	None					86	
53	Structure Wi (0 Deg)	None					86	
54	Structure Wi (30 Deg)	None					86	
55	Structure Wi (60 Deg)	None					86	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
56	Structure Wi (90 Deg)	None					86	
57	Structure Wi (120 Deg)	None					86	
58	Structure Wi (150 Deg)	None					86	
59	Structure Wi (180 Deg)	None					86	
60	Structure Wi (210 Deg)	None					86	
61	Structure Wi (240 Deg)	None					86	
62	Structure Wi (270 Deg)	None					86	
63	Structure Wi (300 Deg)	None					86	
64	Structure Wi (330 Deg)	None					86	
65	Structure Wm (0 Deg)	None					86	
66	Structure Wm (30 Deg)	None					86	
67	Structure Wm (60 Deg)	None					86	
68	Structure Wm (90 Deg)	None					86	
69	Structure Wm (120 Deg)	None					86	
70	Structure Wm (150 Deg)	None					86	
71	Structure Wm (180 Deg)	None					86	
72	Structure Wm (210 Deg)	None					86	
73	Structure Wm (240 Deg)	None					86	
74	Structure Wm (270 Deg)	None					86	
75	Structure Wm (300 Deg)	None					86	
76	Structure Wm (330 Deg)	None					86	
77	Lm1	None				1		
78	Lm2	None				1		
79	Lv1	None				1		
80	Lv2	None				1		
81	Antenna Ev	None				111		
82	Antenna Eh (0 Deg)	None				74		
83	Antenna Eh (90 Deg)	None				74		
84	Structure Ev	ELY		-0.041				3
85	Structure Eh (0 Deg)	ELZ			-0.102			3
86	Structure Eh (90 Deg)	ELX	0.102					3
87	BLC 39 Transient Area Loads	None					43	
88	BLC 40 Transient Area Loads	None					43	
89	BLC 84 Transient Area Loads	None					54	
90	BLC 85 Transient Area Loads	None					54	
91	BLC 86 Transient Area Loads	None					54	

Load Combinations

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

Load Combinations (Continued)

Description	Solve	P-Delta	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	BLCFactor	
72 0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	-0.5	83	-0.866	ELZ	-0.5	ELX	-0.866
73 0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74 0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.5	83	-0.866	ELZ	0.5	ELX	-0.866
75 0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y	1	0.9	39	0.9	81	-1	ELY	-1	82	0.866	83	-0.5	ELZ	0.866	ELX	-0.5

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	Iyy [in ⁴]	Izz [in ⁴]	J [in ⁴]
1 Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	0.627	0.627	1.25
2 Face Horizontal	HSS3.5X3.5X4	Beam	Tube	A500 Gr. B 46	Typical	2.91	5.04	5.04	8.35
3 Standoff Horizontal	HSS3.5X3.5X4	Beam	Tube	A500 Gr. B 46	Typical	2.91	5.04	5.04	8.35
4 Grating Support	L2X2X4	Beam	Single Angle	A36 Gr.36	Typical	0.944	0.346	0.346	0.021
5 P2.5 Mount Pipe	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
6 Kicker	LL3X3X3X3	Column	Single Angle	A36 Gr.36	Typical	2.18	4.09	1.9	0.027
7 Support Rail	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
8 Corner Angle	L3X3X4	Column	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	0.031

Hot Rolled Steel Properties

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

Member Primary Data

Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1 LM1	N116	N115		RIGID	None	None	RIGID	Typical
2 MP1A	N117	N118		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
3 M7	N17	N16		Face Horizontal	Beam	Tube	A500 Gr. B 46	Typical
4 M8	N19	N18		Face Horizontal	Beam	Tube	A500 Gr. B 46	Typical
5 M9	N22	N21		Face Horizontal	Beam	Tube	A500 Gr. B 46	Typical
6 M10	N22	N21A		RIGID	None	None	RIGID	Typical
7 M11	N18	N21A		RIGID	None	None	RIGID	Typical
8 M12	N17	N24		RIGID	None	None	RIGID	Typical
9 M13	N21	N24		RIGID	None	None	RIGID	Typical
10 M14	N19	N28		RIGID	None	None	RIGID	Typical
11 M15	N16	N28		RIGID	None	None	RIGID	Typical
12 M16	N24A	N23		Standoff Horizontal	Beam	Tube	A500 Gr. B 46	Typical
13 M17	N27	N26		Standoff Horizontal	Beam	Tube	A500 Gr. B 46	Typical
14 M18	N30	N29		Standoff Horizontal	Beam	Tube	A500 Gr. B 46	Typical
15 M19	N29A	N30A	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
16 M20	N31	N32	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
17 M21	N33	N34	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
18 M22	N35	N36	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
19 M23	N38	N37		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
20 LM2	N32A	N31A		RIGID	None	None	RIGID	Typical
21 MP2A	N33A	N34A		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
22 M22A	N36A	N35A		RIGID	None	None	RIGID	Typical
23 MP3A	N37A	N38A		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
24 M24	N40	N39		RIGID	None	None	RIGID	Typical
25 MP4A	N41	N42		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
26	M26	N44	N43		RIGID	None	None	RIGID	Typical
27	MP5A	N45	N46		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
28	M28	N49	N48		RIGID	None	None	RIGID	Typical
29	MP1C	N50	N51		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
30	M30	N53	N52		RIGID	None	None	RIGID	Typical
31	MP2C	N54	N55		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
32	M32	N57	N56		RIGID	None	None	RIGID	Typical
33	MP3C	N58	N59		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
34	M34	N61	N60		RIGID	None	None	RIGID	Typical
35	MP4C	N62	N63		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
36	M36	N65	N64		RIGID	None	None	RIGID	Typical
37	MP5C	N66	N67		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
38	M38	N70	N69		RIGID	None	None	RIGID	Typical
39	MP1B	N71	N72		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
40	M40	N74	N73		RIGID	None	None	RIGID	Typical
41	MP2B	N75	N76		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
42	M42	N78	N77		RIGID	None	None	RIGID	Typical
43	MP3B	N79	N80		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
44	M44	N82	N81		RIGID	None	None	RIGID	Typical
45	MP4B	N83	N84		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
46	M46	N86	N85		RIGID	None	None	RIGID	Typical
47	MP5B	N87	N88		Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
48	M48	N88A	N89	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
49	M49	N90	N91	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
50	M50	N92	N93	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
51	M51	N94	N95	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
52	M52	N97	N98	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
53	M53	N99	N100	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
54	M54	N101	N102	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
55	M55	N103	N104	180	Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M56	N107	N106A		Kicker	Column	Single Angle	A36 Gr.36	Typical
57	M57	N108	N107A		Kicker	Column	Single Angle	A36 Gr.36	Typical
58	M58	N111	N110		Kicker	Column	Single Angle	A36 Gr.36	Typical
59	M59	N111A	N110A		RIGID	None	None	RIGID	Typical
60	M60	N113	N112		Support Rail	Column	Pipe	A53 Gr. B	Typical
61	M61	N115A	N114		RIGID	None	None	RIGID	Typical
62	M62	N117A	N116A		RIGID	None	None	RIGID	Typical
63	M63	N119	N118A		RIGID	None	None	RIGID	Typical
64	M64	N121	N120		RIGID	None	None	RIGID	Typical
65	M65	N123	N122		RIGID	None	None	RIGID	Typical
66	M66	N125	N124		RIGID	None	None	RIGID	Typical
67	M67	N127	N126		RIGID	None	None	RIGID	Typical
68	M68	N129	N128		RIGID	None	None	RIGID	Typical
69	M69	N131	N130		RIGID	None	None	RIGID	Typical
70	M70	N133	N132		RIGID	None	None	RIGID	Typical
71	M71	N135	N134		RIGID	None	None	RIGID	Typical
72	M72	N137	N136		RIGID	None	None	RIGID	Typical
73	M73	N139	N138		RIGID	None	None	RIGID	Typical
74	M74	N141	N140		RIGID	None	None	RIGID	Typical
75	M75	N144	N143		Support Rail	Column	Pipe	A53 Gr. B	Typical
76	M76	N147	N146		Support Rail	Column	Pipe	A53 Gr. B	Typical
77	M77	N147A	N149		RIGID	None	None	RIGID	Typical
78	M78	N146A	N148		RIGID	None	None	RIGID	Typical
79	M79	N152	N154		RIGID	None	None	RIGID	Typical
80	M80	N151	N153		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
81	M81	N157	N159		RIGID	None	None	RIGID	Typical
82	M82	N156	N158		RIGID	None	None	RIGID	Typical
83	M83	N159	N153	90	Corner Angle	Column	Single Angle	A36 Gr.36	Typical
84	M84	N149	N158	90	Corner Angle	Column	Single Angle	A36 Gr.36	Typical
85	M85	N154	N148	90	Corner Angle	Column	Single Angle	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
1	LM1			Yes	** NA **	None
2	MP1A			Yes	** NA **	None
3	M7			Yes	N/A	None
4	M8			Yes	N/A	None
5	M9			Yes	N/A	None
6	M10			Yes	** NA **	None
7	M11			Yes	** NA **	None
8	M12			Yes	** NA **	None
9	M13			Yes	** NA **	None
10	M14			Yes	** NA **	None
11	M15			Yes	** NA **	None
12	M16			Yes	N/A	None
13	M17			Yes	N/A	None
14	M18			Yes	N/A	None
15	M19			Yes	N/A	None
16	M20			Yes	N/A	None
17	M21			Yes	N/A	None
18	M22			Yes	N/A	None
19	M23			Yes	** NA **	None
20	LM2			Yes	** NA **	None
21	MP2A			Yes	** NA **	None
22	M22A			Yes	** NA **	None
23	MP3A			Yes	** NA **	None
24	M24			Yes	** NA **	None
25	MP4A			Yes	** NA **	None
26	M26			Yes	** NA **	None
27	MP5A			Yes	** NA **	None
28	M28			Yes	** NA **	None
29	MP1C			Yes	** NA **	None
30	M30			Yes	** NA **	None
31	MP2C			Yes	** NA **	None
32	M32			Yes	** NA **	None
33	MP3C			Yes	** NA **	None
34	M34			Yes	** NA **	None
35	MP4C			Yes	** NA **	None
36	M36			Yes	** NA **	None
37	MP5C			Yes	** NA **	None
38	M38			Yes	** NA **	None
39	MP1B			Yes	** NA **	None
40	M40			Yes	** NA **	None
41	MP2B			Yes	** NA **	None
42	M42			Yes	** NA **	None
43	MP3B			Yes	** NA **	None
44	M44			Yes	** NA **	None
45	MP4B			Yes	** NA **	None
46	M46			Yes	** NA **	None
47	MP5B			Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
48	M48			Yes	N/A	None
49	M49			Yes	N/A	None
50	M50			Yes	N/A	None
51	M51			Yes	N/A	None
52	M52			Yes	N/A	None
53	M53			Yes	N/A	None
54	M54			Yes	N/A	None
55	M55			Yes	N/A	None
56	M56	BenPIN	BenPIN	Yes	** NA **	None
57	M57	BenPIN	BenPIN	Yes	** NA **	None
58	M58	BenPIN	BenPIN	Yes	** NA **	None
59	M59			Yes	** NA **	None
60	M60			Yes	** NA **	None
61	M61			Yes	** NA **	None
62	M62			Yes	** NA **	None
63	M63			Yes	** NA **	None
64	M64			Yes	** NA **	None
65	M65			Yes	** NA **	None
66	M66			Yes	** NA **	None
67	M67			Yes	** NA **	None
68	M68			Yes	** NA **	None
69	M69			Yes	** NA **	None
70	M70			Yes	** NA **	None
71	M71			Yes	** NA **	None
72	M72			Yes	** NA **	None
73	M73			Yes	** NA **	None
74	M74			Yes	** NA **	None
75	M75			Yes	** NA **	None
76	M76			Yes	** NA **	None
77	M77	OOOOOX		Yes	** NA **	None
78	M78	OOOOOX		Yes	** NA **	None
79	M79	OOOOOX		Yes	** NA **	None
80	M80	OOOOOX		Yes	** NA **	None
81	M81	OOOOOX		Yes	** NA **	None
82	M82	OOOOOX		Yes	** NA **	None
83	M83			Yes	** NA **	None
84	M84			Yes	** NA **	None
85	M85			Yes	** NA **	None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	-23	0.75
2	MP2A	My	-0.011	0.75
3	MP2A	Mz	0.017	0.75
4	MP2A	Y	-23	5.75
5	MP2A	My	-0.011	5.75
6	MP2A	Mz	0.017	5.75
7	MP2B	Y	-23	0.75
8	MP2B	My	-0.009	0.75
9	MP2B	Mz	-0.018	0.75
10	MP2B	Y	-23	5.75
11	MP2B	My	-0.009	5.75
12	MP2B	Mz	-0.018	5.75
13	MP2C	Y	-23	0.75
14	MP2C	My	0.02	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
15	MP2C	Mz	0.002	0.75
16	MP2C	Y	-23	5.75
17	MP2C	My	0.02	5.75
18	MP2C	Mz	0.002	5.75
19	MP2A	Y	-23	0.75
20	MP2A	My	-0.011	0.75
21	MP2A	Mz	-0.017	0.75
22	MP2A	Y	-23	5.75
23	MP2A	My	-0.011	5.75
24	MP2A	Mz	-0.017	5.75
25	MP2B	Y	-23	0.75
26	MP2B	My	0.02	0.75
27	MP2B	Mz	-0.002	0.75
28	MP2B	Y	-23	5.75
29	MP2B	My	0.02	5.75
30	MP2B	Mz	-0.002	5.75
31	MP2C	Y	-23	0.75
32	MP2C	My	-0.009	0.75
33	MP2C	Mz	0.018	0.75
34	MP2C	Y	-23	5.75
35	MP2C	My	-0.009	5.75
36	MP2C	Mz	0.018	5.75
37	MP4A	Y	-28.65	2.25
38	MP4A	My	-0.014	2.25
39	MP4A	Mz	0	2.25
40	MP4A	Y	-28.65	4.25
41	MP4A	My	-0.014	4.25
42	MP4A	Mz	0	4.25
43	MP4B	Y	-28.65	2.25
44	MP4B	My	0.007	2.25
45	MP4B	Mz	-0.012	2.25
46	MP4B	Y	-28.65	4.25
47	MP4B	My	0.007	4.25
48	MP4B	Mz	-0.012	4.25
49	MP4C	Y	-28.65	2.25
50	MP4C	My	0.007	2.25
51	MP4C	Mz	0.012	2.25
52	MP4C	Y	-28.65	4.25
53	MP4C	My	0.007	4.25
54	MP4C	Mz	0.012	4.25
55	MP2A	Y	-74.7	0.5
56	MP2A	My	0.037	0.5
57	MP2A	Mz	0	0.5
58	MP2B	Y	-74.7	0.5
59	MP2B	My	-0.019	0.5
60	MP2B	Mz	0.032	0.5
61	MP2C	Y	-74.7	0.5
62	MP2C	My	-0.019	0.5
63	MP2C	Mz	-0.032	0.5
64	MP1A	Y	-79.1	0.5
65	MP1A	My	0.04	0.5
66	MP1A	Mz	0	0.5
67	MP1B	Y	-79.1	0.5
68	MP1B	My	-0.02	0.5
69	MP1B	Mz	0.034	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
70	MP1C	Y	-79.1	0.5
71	MP1C	My	-0.02	0.5
72	MP1C	Mz	-0.034	0.5
73	M23	Y	-32	1
74	M23	My	0	1
75	M23	Mz	0	1
76	MP1A	Y	-6	2
77	MP1A	My	-0.003	2
78	MP1A	Mz	0	2
79	MP1A	Y	-6	4.5
80	MP1A	My	-0.003	4.5
81	MP1A	Mz	0	4.5
82	MP1B	Y	-6	2
83	MP1B	My	0.002	2
84	MP1B	Mz	-0.003	2
85	MP1B	Y	-6	4.5
86	MP1B	My	0.002	4.5
87	MP1B	Mz	-0.003	4.5
88	MP1C	Y	-6	2
89	MP1C	My	0.002	2
90	MP1C	Mz	0.003	2
91	MP1C	Y	-6	4.5
92	MP1C	My	0.002	4.5
93	MP1C	Mz	0.003	4.5
94	MP5A	Y	-6	2
95	MP5A	My	-0.003	2
96	MP5A	Mz	0	2
97	MP5A	Y	-6	4.5
98	MP5A	My	-0.003	4.5
99	MP5A	Mz	0	4.5
100	MP5B	Y	-6	2
101	MP5B	My	0.002	2
102	MP5B	Mz	-0.003	2
103	MP5B	Y	-6	4.5
104	MP5B	My	0.002	4.5
105	MP5B	Mz	-0.003	4.5
106	MP5C	Y	-6	2
107	MP5C	My	0.002	2
108	MP5C	Mz	0.003	2
109	MP5C	Y	-6	4.5
110	MP5C	My	0.002	4.5
111	MP5C	Mz	0.003	4.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	-84.782	0.75
2	MP2A	My	-0.042	0.75
3	MP2A	Mz	0.061	0.75
4	MP2A	Y	-84.782	5.75
5	MP2A	My	-0.042	5.75
6	MP2A	Mz	0.061	5.75
7	MP2B	Y	-84.782	0.75
8	MP2B	My	-0.032	0.75
9	MP2B	Mz	-0.067	0.75
10	MP2B	Y	-84.782	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
11	MP2B	My	-0.032	5.75
12	MP2B	Mz	-0.067	5.75
13	MP2C	Y	-84.782	0.75
14	MP2C	My	0.074	0.75
15	MP2C	Mz	0.006	0.75
16	MP2C	Y	-84.782	5.75
17	MP2C	My	0.074	5.75
18	MP2C	Mz	0.006	5.75
19	MP2A	Y	-84.782	0.75
20	MP2A	My	-0.042	0.75
21	MP2A	Mz	-0.061	0.75
22	MP2A	Y	-84.782	5.75
23	MP2A	My	-0.042	5.75
24	MP2A	Mz	-0.061	5.75
25	MP2B	Y	-84.782	0.75
26	MP2B	My	0.074	0.75
27	MP2B	Mz	-0.006	0.75
28	MP2B	Y	-84.782	5.75
29	MP2B	My	0.074	5.75
30	MP2B	Mz	-0.006	5.75
31	MP2C	Y	-84.782	0.75
32	MP2C	My	-0.032	0.75
33	MP2C	Mz	0.067	0.75
34	MP2C	Y	-84.782	5.75
35	MP2C	My	-0.032	5.75
36	MP2C	Mz	0.067	5.75
37	MP4A	Y	-30.646	2.25
38	MP4A	My	-0.015	2.25
39	MP4A	Mz	0	2.25
40	MP4A	Y	-30.646	4.25
41	MP4A	My	-0.015	4.25
42	MP4A	Mz	0	4.25
43	MP4B	Y	-30.646	2.25
44	MP4B	My	0.008	2.25
45	MP4B	Mz	-0.013	2.25
46	MP4B	Y	-30.646	4.25
47	MP4B	My	0.008	4.25
48	MP4B	Mz	-0.013	4.25
49	MP4C	Y	-30.646	2.25
50	MP4C	My	0.008	2.25
51	MP4C	Mz	0.013	2.25
52	MP4C	Y	-30.646	4.25
53	MP4C	My	0.008	4.25
54	MP4C	Mz	0.013	4.25
55	MP2A	Y	-46.218	0.5
56	MP2A	My	0.023	0.5
57	MP2A	Mz	0	0.5
58	MP2B	Y	-46.218	0.5
59	MP2B	My	-0.012	0.5
60	MP2B	Mz	0.02	0.5
61	MP2C	Y	-46.218	0.5
62	MP2C	My	-0.012	0.5
63	MP2C	Mz	-0.02	0.5
64	MP1A	Y	-46.707	0.5
65	MP1A	My	0.023	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
66	MP1A	Mz	0	0.5
67	MP1B	Y	-46.707	0.5
68	MP1B	My	-0.012	0.5
69	MP1B	Mz	0.02	0.5
70	MP1C	Y	-46.707	0.5
71	MP1C	My	-0.012	0.5
72	MP1C	Mz	-0.02	0.5
73	M23	Y	-90.412	1
74	M23	My	0	1
75	M23	Mz	0	1
76	MP1A	Y	-41.464	2
77	MP1A	My	-0.021	2
78	MP1A	Mz	0	2
79	MP1A	Y	-41.464	4.5
80	MP1A	My	-0.021	4.5
81	MP1A	Mz	0	4.5
82	MP1B	Y	-41.464	2
83	MP1B	My	0.01	2
84	MP1B	Mz	-0.018	2
85	MP1B	Y	-41.464	4.5
86	MP1B	My	0.01	4.5
87	MP1B	Mz	-0.018	4.5
88	MP1C	Y	-41.464	2
89	MP1C	My	0.01	2
90	MP1C	Mz	0.018	2
91	MP1C	Y	-41.464	4.5
92	MP1C	My	0.01	4.5
93	MP1C	Mz	0.018	4.5
94	MP5A	Y	-41.464	2
95	MP5A	My	-0.021	2
96	MP5A	Mz	0	2
97	MP5A	Y	-41.464	4.5
98	MP5A	My	-0.021	4.5
99	MP5A	Mz	0	4.5
100	MP5B	Y	-41.464	2
101	MP5B	My	0.01	2
102	MP5B	Mz	-0.018	2
103	MP5B	Y	-41.464	4.5
104	MP5B	My	0.01	4.5
105	MP5B	Mz	-0.018	4.5
106	MP5C	Y	-41.464	2
107	MP5C	My	0.01	2
108	MP5C	Mz	0.018	2
109	MP5C	Y	-41.464	4.5
110	MP5C	My	0.01	4.5
111	MP5C	Mz	0.018	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	0.75
2	MP2A	Z	-99.979	0.75
3	MP2A	Mx	-0.072	0.75
4	MP2A	X	0	5.75
5	MP2A	Z	-99.979	5.75
6	MP2A	Mx	-0.072	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
7	MP2B	X	0	0.75
8	MP2B	Z	-81.114	0.75
9	MP2B	Mx	0.065	0.75
10	MP2B	X	0	5.75
11	MP2B	Z	-81.114	5.75
12	MP2B	Mx	0.065	5.75
13	MP2C	X	0	0.75
14	MP2C	Z	-81.114	0.75
15	MP2C	Mx	-0.006	0.75
16	MP2C	X	0	5.75
17	MP2C	Z	-81.114	5.75
18	MP2C	Mx	-0.006	5.75
19	MP2A	X	0	0.75
20	MP2A	Z	-99.979	0.75
21	MP2A	Mx	0.072	0.75
22	MP2A	X	0	5.75
23	MP2A	Z	-99.979	5.75
24	MP2A	Mx	0.072	5.75
25	MP2B	X	0	0.75
26	MP2B	Z	-81.114	0.75
27	MP2B	Mx	0.006	0.75
28	MP2B	X	0	5.75
29	MP2B	Z	-81.114	5.75
30	MP2B	Mx	0.006	5.75
31	MP2C	X	0	0.75
32	MP2C	Z	-81.114	0.75
33	MP2C	Mx	-0.065	0.75
34	MP2C	X	0	5.75
35	MP2C	Z	-81.114	5.75
36	MP2C	Mx	-0.065	5.75
37	MP4A	X	0	2.25
38	MP4A	Z	-66.794	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	-66.794	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	-34.295	2.25
45	MP4B	Mx	0.015	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	-34.295	4.25
48	MP4B	Mx	0.015	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	-34.295	2.25
51	MP4C	Mx	-0.015	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	-34.295	4.25
54	MP4C	Mx	-0.015	4.25
55	MP2A	X	0	0.5
56	MP2A	Z	-65.526	0.5
57	MP2A	Mx	0	0.5
58	MP2B	X	0	0.5
59	MP2B	Z	-49.356	0.5
60	MP2B	Mx	-0.021	0.5
61	MP2C	X	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
62	MP2C	Z	-49.356	0.5
63	MP2C	Mx	0.021	0.5
64	MP1A	X	0	0.5
65	MP1A	Z	-79.053	0.5
66	MP1A	Mx	0	0.5
67	MP1B	X	0	0.5
68	MP1B	Z	-60.188	0.5
69	MP1B	Mx	-0.026	0.5
70	MP1C	X	0	0.5
71	MP1C	Z	-60.188	0.5
72	MP1C	Mx	0.026	0.5
73	M23	X	0	1
74	M23	Z	-125.978	1
75	M23	Mx	0	1
76	MP1A	X	0	2
77	MP1A	Z	-55.168	2
78	MP1A	Mx	0	2
79	MP1A	X	0	4.5
80	MP1A	Z	-55.168	4.5
81	MP1A	Mx	0	4.5
82	MP1B	X	0	2
83	MP1B	Z	-99.38	2
84	MP1B	Mx	0.043	2
85	MP1B	X	0	4.5
86	MP1B	Z	-99.38	4.5
87	MP1B	Mx	0.043	4.5
88	MP1C	X	0	2
89	MP1C	Z	-99.38	2
90	MP1C	Mx	-0.043	2
91	MP1C	X	0	4.5
92	MP1C	Z	-99.38	4.5
93	MP1C	Mx	-0.043	4.5
94	MP5A	X	0	2
95	MP5A	Z	-55.168	2
96	MP5A	Mx	0	2
97	MP5A	X	0	4.5
98	MP5A	Z	-55.168	4.5
99	MP5A	Mx	0	4.5
100	MP5B	X	0	2
101	MP5B	Z	-99.38	2
102	MP5B	Mx	0.043	2
103	MP5B	X	0	4.5
104	MP5B	Z	-99.38	4.5
105	MP5B	Mx	0.043	4.5
106	MP5C	X	0	2
107	MP5C	Z	-99.38	2
108	MP5C	Mx	-0.043	2
109	MP5C	X	0	4.5
110	MP5C	Z	-99.38	4.5
111	MP5C	Mx	-0.043	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	46.846	0.75
2	MP2A	Z	-81.139	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
3	MP2A	Mx	-0.082	0.75
4	MP2A	X	46.846	5.75
5	MP2A	Z	-81.139	5.75
6	MP2A	Mx	-0.082	5.75
7	MP2B	X	37.413	0.75
8	MP2B	Z	-64.801	0.75
9	MP2B	Mx	0.037	0.75
10	MP2B	X	37.413	5.75
11	MP2B	Z	-64.801	5.75
12	MP2B	Mx	0.037	5.75
13	MP2C	X	46.846	0.75
14	MP2C	Z	-81.139	0.75
15	MP2C	Mx	0.035	0.75
16	MP2C	X	46.846	5.75
17	MP2C	Z	-81.139	5.75
18	MP2C	Mx	0.035	5.75
19	MP2A	X	46.846	0.75
20	MP2A	Z	-81.139	0.75
21	MP2A	Mx	0.035	0.75
22	MP2A	X	46.846	5.75
23	MP2A	Z	-81.139	5.75
24	MP2A	Mx	0.035	5.75
25	MP2B	X	37.413	0.75
26	MP2B	Z	-64.801	0.75
27	MP2B	Mx	0.037	0.75
28	MP2B	X	37.413	5.75
29	MP2B	Z	-64.801	5.75
30	MP2B	Mx	0.037	5.75
31	MP2C	X	46.846	0.75
32	MP2C	Z	-81.139	0.75
33	MP2C	Mx	-0.082	0.75
34	MP2C	X	46.846	5.75
35	MP2C	Z	-81.139	5.75
36	MP2C	Mx	-0.082	5.75
37	MP4A	X	27.98	2.25
38	MP4A	Z	-48.464	2.25
39	MP4A	Mx	-0.014	2.25
40	MP4A	X	27.98	4.25
41	MP4A	Z	-48.464	4.25
42	MP4A	Mx	-0.014	4.25
43	MP4B	X	11.731	2.25
44	MP4B	Z	-20.319	2.25
45	MP4B	Mx	0.012	2.25
46	MP4B	X	11.731	4.25
47	MP4B	Z	-20.319	4.25
48	MP4B	Mx	0.012	4.25
49	MP4C	X	27.98	2.25
50	MP4C	Z	-48.464	2.25
51	MP4C	Mx	-0.014	2.25
52	MP4C	X	27.98	4.25
53	MP4C	Z	-48.464	4.25
54	MP4C	Mx	-0.014	4.25
55	MP2A	X	30.068	0.5
56	MP2A	Z	-52.079	0.5
57	MP2A	Mx	0.015	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
58	MP2B	X	21.983	0.5
59	MP2B	Z	-38.075	0.5
60	MP2B	Mx	-0.022	0.5
61	MP2C	X	30.068	0.5
62	MP2C	Z	-52.079	0.5
63	MP2C	Mx	0.015	0.5
64	MP1A	X	36.383	0.5
65	MP1A	Z	-63.016	0.5
66	MP1A	Mx	0.018	0.5
67	MP1B	X	26.95	0.5
68	MP1B	Z	-46.679	0.5
69	MP1B	Mx	-0.027	0.5
70	MP1C	X	36.383	0.5
71	MP1C	Z	-63.016	0.5
72	MP1C	Mx	0.018	0.5
73	M23	X	54.957	1
74	M23	Z	-95.188	1
75	M23	Mx	0	1
76	MP1A	X	34.953	2
77	MP1A	Z	-60.54	2
78	MP1A	Mx	-0.017	2
79	MP1A	X	34.953	4.5
80	MP1A	Z	-60.54	4.5
81	MP1A	Mx	-0.017	4.5
82	MP1B	X	57.059	2
83	MP1B	Z	-98.829	2
84	MP1B	Mx	0.057	2
85	MP1B	X	57.059	4.5
86	MP1B	Z	-98.829	4.5
87	MP1B	Mx	0.057	4.5
88	MP1C	X	34.953	2
89	MP1C	Z	-60.54	2
90	MP1C	Mx	-0.017	2
91	MP1C	X	34.953	4.5
92	MP1C	Z	-60.54	4.5
93	MP1C	Mx	-0.017	4.5
94	MP5A	X	34.953	2
95	MP5A	Z	-60.54	2
96	MP5A	Mx	-0.017	2
97	MP5A	X	34.953	4.5
98	MP5A	Z	-60.54	4.5
99	MP5A	Mx	-0.017	4.5
100	MP5B	X	57.059	2
101	MP5B	Z	-98.829	2
102	MP5B	Mx	0.057	2
103	MP5B	X	57.059	4.5
104	MP5B	Z	-98.829	4.5
105	MP5B	Mx	0.057	4.5
106	MP5C	X	34.953	2
107	MP5C	Z	-60.54	2
108	MP5C	Mx	-0.017	2
109	MP5C	X	34.953	4.5
110	MP5C	Z	-60.54	4.5
111	MP5C	Mx	-0.017	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	70.247	0.75
2	MP2A	Z	-40.557	0.75
3	MP2A	Mx	-0.065	0.75
4	MP2A	X	70.247	5.75
5	MP2A	Z	-40.557	5.75
6	MP2A	Mx	-0.065	5.75
7	MP2B	X	70.247	0.75
8	MP2B	Z	-40.557	0.75
9	MP2B	Mx	0.006	0.75
10	MP2B	X	70.247	5.75
11	MP2B	Z	-40.557	5.75
12	MP2B	Mx	0.006	5.75
13	MP2C	X	86.585	0.75
14	MP2C	Z	-49.99	0.75
15	MP2C	Mx	0.072	0.75
16	MP2C	X	86.585	5.75
17	MP2C	Z	-49.99	5.75
18	MP2C	Mx	0.072	5.75
19	MP2A	X	70.247	0.75
20	MP2A	Z	-40.557	0.75
21	MP2A	Mx	-0.006	0.75
22	MP2A	X	70.247	5.75
23	MP2A	Z	-40.557	5.75
24	MP2A	Mx	-0.006	5.75
25	MP2B	X	70.247	0.75
26	MP2B	Z	-40.557	0.75
27	MP2B	Mx	0.065	0.75
28	MP2B	X	70.247	5.75
29	MP2B	Z	-40.557	5.75
30	MP2B	Mx	0.065	5.75
31	MP2C	X	86.585	0.75
32	MP2C	Z	-49.99	0.75
33	MP2C	Mx	-0.072	0.75
34	MP2C	X	86.585	5.75
35	MP2C	Z	-49.99	5.75
36	MP2C	Mx	-0.072	5.75
37	MP4A	X	29.701	2.25
38	MP4A	Z	-17.148	2.25
39	MP4A	Mx	-0.015	2.25
40	MP4A	X	29.701	4.25
41	MP4A	Z	-17.148	4.25
42	MP4A	Mx	-0.015	4.25
43	MP4B	X	29.701	2.25
44	MP4B	Z	-17.148	2.25
45	MP4B	Mx	0.015	2.25
46	MP4B	X	29.701	4.25
47	MP4B	Z	-17.148	4.25
48	MP4B	Mx	0.015	4.25
49	MP4C	X	57.845	2.25
50	MP4C	Z	-33.397	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	57.845	4.25
53	MP4C	Z	-33.397	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	42.743	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP2A	Z	-24.678	0.5
57	MP2A	Mx	0.021	0.5
58	MP2B	X	42.743	0.5
59	MP2B	Z	-24.678	0.5
60	MP2B	Mx	-0.021	0.5
61	MP2C	X	56.747	0.5
62	MP2C	Z	-32.763	0.5
63	MP2C	Mx	0	0.5
64	MP1A	X	52.125	0.5
65	MP1A	Z	-30.094	0.5
66	MP1A	Mx	0.026	0.5
67	MP1B	X	52.125	0.5
68	MP1B	Z	-30.094	0.5
69	MP1B	Mx	-0.026	0.5
70	MP1C	X	68.462	0.5
71	MP1C	Z	-39.527	0.5
72	MP1C	Mx	0	0.5
73	M23	X	88.232	1
74	M23	Z	-50.941	1
75	M23	Mx	0	1
76	MP1A	X	86.066	2
77	MP1A	Z	-49.69	2
78	MP1A	Mx	-0.043	2
79	MP1A	X	86.066	4.5
80	MP1A	Z	-49.69	4.5
81	MP1A	Mx	-0.043	4.5
82	MP1B	X	86.066	2
83	MP1B	Z	-49.69	2
84	MP1B	Mx	0.043	2
85	MP1B	X	86.066	4.5
86	MP1B	Z	-49.69	4.5
87	MP1B	Mx	0.043	4.5
88	MP1C	X	47.777	2
89	MP1C	Z	-27.584	2
90	MP1C	Mx	0	2
91	MP1C	X	47.777	4.5
92	MP1C	Z	-27.584	4.5
93	MP1C	Mx	0	4.5
94	MP5A	X	86.066	2
95	MP5A	Z	-49.69	2
96	MP5A	Mx	-0.043	2
97	MP5A	X	86.066	4.5
98	MP5A	Z	-49.69	4.5
99	MP5A	Mx	-0.043	4.5
100	MP5B	X	86.066	2
101	MP5B	Z	-49.69	2
102	MP5B	Mx	0.043	2
103	MP5B	X	86.066	4.5
104	MP5B	Z	-49.69	4.5
105	MP5B	Mx	0.043	4.5
106	MP5C	X	47.777	2
107	MP5C	Z	-27.584	2
108	MP5C	Mx	0	2
109	MP5C	X	47.777	4.5
110	MP5C	Z	-27.584	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	74.826	0.75
2	MP2A	Z	0	0.75
3	MP2A	Mx	-0.037	0.75
4	MP2A	X	74.826	5.75
5	MP2A	Z	0	5.75
6	MP2A	Mx	-0.037	5.75
7	MP2B	X	93.691	0.75
8	MP2B	Z	0	0.75
9	MP2B	Mx	-0.035	0.75
10	MP2B	X	93.691	5.75
11	MP2B	Z	0	5.75
12	MP2B	Mx	-0.035	5.75
13	MP2C	X	93.691	0.75
14	MP2C	Z	0	0.75
15	MP2C	Mx	0.082	0.75
16	MP2C	X	93.691	5.75
17	MP2C	Z	0	5.75
18	MP2C	Mx	0.082	5.75
19	MP2A	X	74.826	0.75
20	MP2A	Z	0	0.75
21	MP2A	Mx	-0.037	0.75
22	MP2A	X	74.826	5.75
23	MP2A	Z	0	5.75
24	MP2A	Mx	-0.037	5.75
25	MP2B	X	93.691	0.75
26	MP2B	Z	0	0.75
27	MP2B	Mx	0.082	0.75
28	MP2B	X	93.691	5.75
29	MP2B	Z	0	5.75
30	MP2B	Mx	0.082	5.75
31	MP2C	X	93.691	0.75
32	MP2C	Z	0	0.75
33	MP2C	Mx	-0.035	0.75
34	MP2C	X	93.691	5.75
35	MP2C	Z	0	5.75
36	MP2C	Mx	-0.035	5.75
37	MP4A	X	23.462	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	-0.012	2.25
40	MP4A	X	23.462	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	-0.012	4.25
43	MP4B	X	55.961	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	0.014	2.25
46	MP4B	X	55.961	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	0.014	4.25
49	MP4C	X	55.961	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	0.014	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
52	MP4C	X	55.961	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	0.014	4.25
55	MP2A	X	43.966	0.5
56	MP2A	Z	0	0.5
57	MP2A	Mx	0.022	0.5
58	MP2B	X	60.136	0.5
59	MP2B	Z	0	0.5
60	MP2B	Mx	-0.015	0.5
61	MP2C	X	60.136	0.5
62	MP2C	Z	0	0.5
63	MP2C	Mx	-0.015	0.5
64	MP1A	X	53.9	0.5
65	MP1A	Z	0	0.5
66	MP1A	Mx	0.027	0.5
67	MP1B	X	72.765	0.5
68	MP1B	Z	0	0.5
69	MP1B	Mx	-0.018	0.5
70	MP1C	X	72.765	0.5
71	MP1C	Z	0	0.5
72	MP1C	Mx	-0.018	0.5
73	M23	X	109.914	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	MP1A	X	114.117	2
77	MP1A	Z	0	2
78	MP1A	Mx	-0.057	2
79	MP1A	X	114.117	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	-0.057	4.5
82	MP1B	X	69.906	2
83	MP1B	Z	0	2
84	MP1B	Mx	0.017	2
85	MP1B	X	69.906	4.5
86	MP1B	Z	0	4.5
87	MP1B	Mx	0.017	4.5
88	MP1C	X	69.906	2
89	MP1C	Z	0	2
90	MP1C	Mx	0.017	2
91	MP1C	X	69.906	4.5
92	MP1C	Z	0	4.5
93	MP1C	Mx	0.017	4.5
94	MP5A	X	114.117	2
95	MP5A	Z	0	2
96	MP5A	Mx	-0.057	2
97	MP5A	X	114.117	4.5
98	MP5A	Z	0	4.5
99	MP5A	Mx	-0.057	4.5
100	MP5B	X	69.906	2
101	MP5B	Z	0	2
102	MP5B	Mx	0.017	2
103	MP5B	X	69.906	4.5
104	MP5B	Z	0	4.5
105	MP5B	Mx	0.017	4.5
106	MP5C	X	69.906	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
107	MP5C	Z	0	2
108	MP5C	Mx	0.017	2
109	MP5C	X	69.906	4.5
110	MP5C	Z	0	4.5
111	MP5C	Mx	0.017	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	70.247	0.75
2	MP2A	Z	40.557	0.75
3	MP2A	Mx	-0.006	0.75
4	MP2A	X	70.247	5.75
5	MP2A	Z	40.557	5.75
6	MP2A	Mx	-0.006	5.75
7	MP2B	X	86.585	0.75
8	MP2B	Z	49.99	0.75
9	MP2B	Mx	-0.072	0.75
10	MP2B	X	86.585	5.75
11	MP2B	Z	49.99	5.75
12	MP2B	Mx	-0.072	5.75
13	MP2C	X	70.247	0.75
14	MP2C	Z	40.557	0.75
15	MP2C	Mx	0.065	0.75
16	MP2C	X	70.247	5.75
17	MP2C	Z	40.557	5.75
18	MP2C	Mx	0.065	5.75
19	MP2A	X	70.247	0.75
20	MP2A	Z	40.557	0.75
21	MP2A	Mx	-0.065	0.75
22	MP2A	X	70.247	5.75
23	MP2A	Z	40.557	5.75
24	MP2A	Mx	-0.065	5.75
25	MP2B	X	86.585	0.75
26	MP2B	Z	49.99	0.75
27	MP2B	Mx	0.072	0.75
28	MP2B	X	86.585	5.75
29	MP2B	Z	49.99	5.75
30	MP2B	Mx	0.072	5.75
31	MP2C	X	70.247	0.75
32	MP2C	Z	40.557	0.75
33	MP2C	Mx	0.006	0.75
34	MP2C	X	70.247	5.75
35	MP2C	Z	40.557	5.75
36	MP2C	Mx	0.006	5.75
37	MP4A	X	29.701	2.25
38	MP4A	Z	17.148	2.25
39	MP4A	Mx	-0.015	2.25
40	MP4A	X	29.701	4.25
41	MP4A	Z	17.148	4.25
42	MP4A	Mx	-0.015	4.25
43	MP4B	X	57.845	2.25
44	MP4B	Z	33.397	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	57.845	4.25
47	MP4B	Z	33.397	4.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
48	MP4B	Mx	0	4.25
49	MP4C	X	29.701	2.25
50	MP4C	Z	17.148	2.25
51	MP4C	Mx	0.015	2.25
52	MP4C	X	29.701	4.25
53	MP4C	Z	17.148	4.25
54	MP4C	Mx	0.015	4.25
55	MP2A	X	42.743	0.5
56	MP2A	Z	24.678	0.5
57	MP2A	Mx	0.021	0.5
58	MP2B	X	56.747	0.5
59	MP2B	Z	32.763	0.5
60	MP2B	Mx	0	0.5
61	MP2C	X	42.743	0.5
62	MP2C	Z	24.678	0.5
63	MP2C	Mx	-0.021	0.5
64	MP1A	X	52.125	0.5
65	MP1A	Z	30.094	0.5
66	MP1A	Mx	0.026	0.5
67	MP1B	X	68.462	0.5
68	MP1B	Z	39.527	0.5
69	MP1B	Mx	0	0.5
70	MP1C	X	52.125	0.5
71	MP1C	Z	30.094	0.5
72	MP1C	Mx	-0.026	0.5
73	M23	X	109.1	1
74	M23	Z	62.989	1
75	M23	Mx	0	1
76	MP1A	X	86.066	2
77	MP1A	Z	49.69	2
78	MP1A	Mx	-0.043	2
79	MP1A	X	86.066	4.5
80	MP1A	Z	49.69	4.5
81	MP1A	Mx	-0.043	4.5
82	MP1B	X	47.777	2
83	MP1B	Z	27.584	2
84	MP1B	Mx	0	2
85	MP1B	X	47.777	4.5
86	MP1B	Z	27.584	4.5
87	MP1B	Mx	0	4.5
88	MP1C	X	86.066	2
89	MP1C	Z	49.69	2
90	MP1C	Mx	0.043	2
91	MP1C	X	86.066	4.5
92	MP1C	Z	49.69	4.5
93	MP1C	Mx	0.043	4.5
94	MP5A	X	86.066	2
95	MP5A	Z	49.69	2
96	MP5A	Mx	-0.043	2
97	MP5A	X	86.066	4.5
98	MP5A	Z	49.69	4.5
99	MP5A	Mx	-0.043	4.5
100	MP5B	X	47.777	2
101	MP5B	Z	27.584	2
102	MP5B	Mx	0	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
103	MP5B	X	47.777	4.5
104	MP5B	Z	27.584	4.5
105	MP5B	Mx	0	4.5
106	MP5C	X	86.066	2
107	MP5C	Z	49.69	2
108	MP5C	Mx	0.043	2
109	MP5C	X	86.066	4.5
110	MP5C	Z	49.69	4.5
111	MP5C	Mx	0.043	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	46.846	0.75
2	MP2A	Z	81.139	0.75
3	MP2A	Mx	0.035	0.75
4	MP2A	X	46.846	5.75
5	MP2A	Z	81.139	5.75
6	MP2A	Mx	0.035	5.75
7	MP2B	X	46.846	0.75
8	MP2B	Z	81.139	0.75
9	MP2B	Mx	-0.082	0.75
10	MP2B	X	46.846	5.75
11	MP2B	Z	81.139	5.75
12	MP2B	Mx	-0.082	5.75
13	MP2C	X	37.413	0.75
14	MP2C	Z	64.801	0.75
15	MP2C	Mx	0.037	0.75
16	MP2C	X	37.413	5.75
17	MP2C	Z	64.801	5.75
18	MP2C	Mx	0.037	5.75
19	MP2A	X	46.846	0.75
20	MP2A	Z	81.139	0.75
21	MP2A	Mx	-0.082	0.75
22	MP2A	X	46.846	5.75
23	MP2A	Z	81.139	5.75
24	MP2A	Mx	-0.082	5.75
25	MP2B	X	46.846	0.75
26	MP2B	Z	81.139	0.75
27	MP2B	Mx	0.035	0.75
28	MP2B	X	46.846	5.75
29	MP2B	Z	81.139	5.75
30	MP2B	Mx	0.035	5.75
31	MP2C	X	37.413	0.75
32	MP2C	Z	64.801	0.75
33	MP2C	Mx	0.037	0.75
34	MP2C	X	37.413	5.75
35	MP2C	Z	64.801	5.75
36	MP2C	Mx	0.037	5.75
37	MP4A	X	27.98	2.25
38	MP4A	Z	48.464	2.25
39	MP4A	Mx	-0.014	2.25
40	MP4A	X	27.98	4.25
41	MP4A	Z	48.464	4.25
42	MP4A	Mx	-0.014	4.25
43	MP4B	X	27.98	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
44	MP4B	Z	48.464	2.25
45	MP4B	Mx	-0.014	2.25
46	MP4B	X	27.98	4.25
47	MP4B	Z	48.464	4.25
48	MP4B	Mx	-0.014	4.25
49	MP4C	X	11.731	2.25
50	MP4C	Z	20.319	2.25
51	MP4C	Mx	0.012	2.25
52	MP4C	X	11.731	4.25
53	MP4C	Z	20.319	4.25
54	MP4C	Mx	0.012	4.25
55	MP2A	X	30.068	0.5
56	MP2A	Z	52.079	0.5
57	MP2A	Mx	0.015	0.5
58	MP2B	X	30.068	0.5
59	MP2B	Z	52.079	0.5
60	MP2B	Mx	0.015	0.5
61	MP2C	X	21.983	0.5
62	MP2C	Z	38.075	0.5
63	MP2C	Mx	-0.022	0.5
64	MP1A	X	36.383	0.5
65	MP1A	Z	63.016	0.5
66	MP1A	Mx	0.018	0.5
67	MP1B	X	36.383	0.5
68	MP1B	Z	63.016	0.5
69	MP1B	Mx	0.018	0.5
70	MP1C	X	26.95	0.5
71	MP1C	Z	46.679	0.5
72	MP1C	Mx	-0.027	0.5
73	M23	X	67.005	1
74	M23	Z	116.056	1
75	M23	Mx	0	1
76	MP1A	X	34.953	2
77	MP1A	Z	60.54	2
78	MP1A	Mx	-0.017	2
79	MP1A	X	34.953	4.5
80	MP1A	Z	60.54	4.5
81	MP1A	Mx	-0.017	4.5
82	MP1B	X	34.953	2
83	MP1B	Z	60.54	2
84	MP1B	Mx	-0.017	2
85	MP1B	X	34.953	4.5
86	MP1B	Z	60.54	4.5
87	MP1B	Mx	-0.017	4.5
88	MP1C	X	57.059	2
89	MP1C	Z	98.829	2
90	MP1C	Mx	0.057	2
91	MP1C	X	57.059	4.5
92	MP1C	Z	98.829	4.5
93	MP1C	Mx	0.057	4.5
94	MP5A	X	34.953	2
95	MP5A	Z	60.54	2
96	MP5A	Mx	-0.017	2
97	MP5A	X	34.953	4.5
98	MP5A	Z	60.54	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
99	MP5A	Mx	-0.017	4.5
100	MP5B	X	34.953	2
101	MP5B	Z	60.54	2
102	MP5B	Mx	-0.017	2
103	MP5B	X	34.953	4.5
104	MP5B	Z	60.54	4.5
105	MP5B	Mx	-0.017	4.5
106	MP5C	X	57.059	2
107	MP5C	Z	98.829	2
108	MP5C	Mx	0.057	2
109	MP5C	X	57.059	4.5
110	MP5C	Z	98.829	4.5
111	MP5C	Mx	0.057	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	0.75
2	MP2A	Z	99.979	0.75
3	MP2A	Mx	0.072	0.75
4	MP2A	X	0	5.75
5	MP2A	Z	99.979	5.75
6	MP2A	Mx	0.072	5.75
7	MP2B	X	0	0.75
8	MP2B	Z	81.114	0.75
9	MP2B	Mx	-0.065	0.75
10	MP2B	X	0	5.75
11	MP2B	Z	81.114	5.75
12	MP2B	Mx	-0.065	5.75
13	MP2C	X	0	0.75
14	MP2C	Z	81.114	0.75
15	MP2C	Mx	0.006	0.75
16	MP2C	X	0	5.75
17	MP2C	Z	81.114	5.75
18	MP2C	Mx	0.006	5.75
19	MP2A	X	0	0.75
20	MP2A	Z	99.979	0.75
21	MP2A	Mx	-0.072	0.75
22	MP2A	X	0	5.75
23	MP2A	Z	99.979	5.75
24	MP2A	Mx	-0.072	5.75
25	MP2B	X	0	0.75
26	MP2B	Z	81.114	0.75
27	MP2B	Mx	-0.006	0.75
28	MP2B	X	0	5.75
29	MP2B	Z	81.114	5.75
30	MP2B	Mx	-0.006	5.75
31	MP2C	X	0	0.75
32	MP2C	Z	81.114	0.75
33	MP2C	Mx	0.065	0.75
34	MP2C	X	0	5.75
35	MP2C	Z	81.114	5.75
36	MP2C	Mx	0.065	5.75
37	MP4A	X	0	2.25
38	MP4A	Z	66.794	2.25
39	MP4A	Mx	0	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP4A	X	0	4.25
41	MP4A	Z	66.794	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	34.295	2.25
45	MP4B	Mx	-0.015	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	34.295	4.25
48	MP4B	Mx	-0.015	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	34.295	2.25
51	MP4C	Mx	0.015	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	34.295	4.25
54	MP4C	Mx	0.015	4.25
55	MP2A	X	0	0.5
56	MP2A	Z	65.526	0.5
57	MP2A	Mx	0	0.5
58	MP2B	X	0	0.5
59	MP2B	Z	49.356	0.5
60	MP2B	Mx	0.021	0.5
61	MP2C	X	0	0.5
62	MP2C	Z	49.356	0.5
63	MP2C	Mx	-0.021	0.5
64	MP1A	X	0	0.5
65	MP1A	Z	79.053	0.5
66	MP1A	Mx	0	0.5
67	MP1B	X	0	0.5
68	MP1B	Z	60.188	0.5
69	MP1B	Mx	0.026	0.5
70	MP1C	X	0	0.5
71	MP1C	Z	60.188	0.5
72	MP1C	Mx	-0.026	0.5
73	M23	X	0	1
74	M23	Z	125.978	1
75	M23	Mx	0	1
76	MP1A	X	0	2
77	MP1A	Z	55.168	2
78	MP1A	Mx	0	2
79	MP1A	X	0	4.5
80	MP1A	Z	55.168	4.5
81	MP1A	Mx	0	4.5
82	MP1B	X	0	2
83	MP1B	Z	99.38	2
84	MP1B	Mx	-0.043	2
85	MP1B	X	0	4.5
86	MP1B	Z	99.38	4.5
87	MP1B	Mx	-0.043	4.5
88	MP1C	X	0	2
89	MP1C	Z	99.38	2
90	MP1C	Mx	0.043	2
91	MP1C	X	0	4.5
92	MP1C	Z	99.38	4.5
93	MP1C	Mx	0.043	4.5
94	MP5A	X	0	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP5A	Z	55.168	2
96	MP5A	Mx	0	2
97	MP5A	X	0	4.5
98	MP5A	Z	55.168	4.5
99	MP5A	Mx	0	4.5
100	MP5B	X	0	2
101	MP5B	Z	99.38	2
102	MP5B	Mx	-0.043	2
103	MP5B	X	0	4.5
104	MP5B	Z	99.38	4.5
105	MP5B	Mx	-0.043	4.5
106	MP5C	X	0	2
107	MP5C	Z	99.38	2
108	MP5C	Mx	0.043	2
109	MP5C	X	0	4.5
110	MP5C	Z	99.38	4.5
111	MP5C	Mx	0.043	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-46.846	0.75
2	MP2A	Z	81.139	0.75
3	MP2A	Mx	0.082	0.75
4	MP2A	X	-46.846	5.75
5	MP2A	Z	81.139	5.75
6	MP2A	Mx	0.082	5.75
7	MP2B	X	-37.413	0.75
8	MP2B	Z	64.801	0.75
9	MP2B	Mx	-0.037	0.75
10	MP2B	X	-37.413	5.75
11	MP2B	Z	64.801	5.75
12	MP2B	Mx	-0.037	5.75
13	MP2C	X	-46.846	0.75
14	MP2C	Z	81.139	0.75
15	MP2C	Mx	-0.035	0.75
16	MP2C	X	-46.846	5.75
17	MP2C	Z	81.139	5.75
18	MP2C	Mx	-0.035	5.75
19	MP2A	X	-46.846	0.75
20	MP2A	Z	81.139	0.75
21	MP2A	Mx	-0.035	0.75
22	MP2A	X	-46.846	5.75
23	MP2A	Z	81.139	5.75
24	MP2A	Mx	-0.035	5.75
25	MP2B	X	-37.413	0.75
26	MP2B	Z	64.801	0.75
27	MP2B	Mx	-0.037	0.75
28	MP2B	X	-37.413	5.75
29	MP2B	Z	64.801	5.75
30	MP2B	Mx	-0.037	5.75
31	MP2C	X	-46.846	0.75
32	MP2C	Z	81.139	0.75
33	MP2C	Mx	0.082	0.75
34	MP2C	X	-46.846	5.75
35	MP2C	Z	81.139	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
36	MP2C	Mx	0.082	5.75
37	MP4A	X	-27.98	2.25
38	MP4A	Z	48.464	2.25
39	MP4A	Mx	0.014	2.25
40	MP4A	X	-27.98	4.25
41	MP4A	Z	48.464	4.25
42	MP4A	Mx	0.014	4.25
43	MP4B	X	-11.731	2.25
44	MP4B	Z	20.319	2.25
45	MP4B	Mx	-0.012	2.25
46	MP4B	X	-11.731	4.25
47	MP4B	Z	20.319	4.25
48	MP4B	Mx	-0.012	4.25
49	MP4C	X	-27.98	2.25
50	MP4C	Z	48.464	2.25
51	MP4C	Mx	0.014	2.25
52	MP4C	X	-27.98	4.25
53	MP4C	Z	48.464	4.25
54	MP4C	Mx	0.014	4.25
55	MP2A	X	-30.068	0.5
56	MP2A	Z	52.079	0.5
57	MP2A	Mx	-0.015	0.5
58	MP2B	X	-21.983	0.5
59	MP2B	Z	38.075	0.5
60	MP2B	Mx	0.022	0.5
61	MP2C	X	-30.068	0.5
62	MP2C	Z	52.079	0.5
63	MP2C	Mx	-0.015	0.5
64	MP1A	X	-36.383	0.5
65	MP1A	Z	63.016	0.5
66	MP1A	Mx	-0.018	0.5
67	MP1B	X	-26.95	0.5
68	MP1B	Z	46.679	0.5
69	MP1B	Mx	0.027	0.5
70	MP1C	X	-36.383	0.5
71	MP1C	Z	63.016	0.5
72	MP1C	Mx	-0.018	0.5
73	M23	X	-54.957	1
74	M23	Z	95.188	1
75	M23	Mx	0	1
76	MP1A	X	-34.953	2
77	MP1A	Z	60.54	2
78	MP1A	Mx	0.017	2
79	MP1A	X	-34.953	4.5
80	MP1A	Z	60.54	4.5
81	MP1A	Mx	0.017	4.5
82	MP1B	X	-57.059	2
83	MP1B	Z	98.829	2
84	MP1B	Mx	-0.057	2
85	MP1B	X	-57.059	4.5
86	MP1B	Z	98.829	4.5
87	MP1B	Mx	-0.057	4.5
88	MP1C	X	-34.953	2
89	MP1C	Z	60.54	2
90	MP1C	Mx	0.017	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
91	MP1C	X	-34.953	4.5
92	MP1C	Z	60.54	4.5
93	MP1C	Mx	0.017	4.5
94	MP5A	X	-34.953	2
95	MP5A	Z	60.54	2
96	MP5A	Mx	0.017	2
97	MP5A	X	-34.953	4.5
98	MP5A	Z	60.54	4.5
99	MP5A	Mx	0.017	4.5
100	MP5B	X	-57.059	2
101	MP5B	Z	98.829	2
102	MP5B	Mx	-0.057	2
103	MP5B	X	-57.059	4.5
104	MP5B	Z	98.829	4.5
105	MP5B	Mx	-0.057	4.5
106	MP5C	X	-34.953	2
107	MP5C	Z	60.54	2
108	MP5C	Mx	0.017	2
109	MP5C	X	-34.953	4.5
110	MP5C	Z	60.54	4.5
111	MP5C	Mx	0.017	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-70.247	0.75
2	MP2A	Z	40.557	0.75
3	MP2A	Mx	0.065	0.75
4	MP2A	X	-70.247	5.75
5	MP2A	Z	40.557	5.75
6	MP2A	Mx	0.065	5.75
7	MP2B	X	-70.247	0.75
8	MP2B	Z	40.557	0.75
9	MP2B	Mx	-0.006	0.75
10	MP2B	X	-70.247	5.75
11	MP2B	Z	40.557	5.75
12	MP2B	Mx	-0.006	5.75
13	MP2C	X	-86.585	0.75
14	MP2C	Z	49.99	0.75
15	MP2C	Mx	-0.072	0.75
16	MP2C	X	-86.585	5.75
17	MP2C	Z	49.99	5.75
18	MP2C	Mx	-0.072	5.75
19	MP2A	X	-70.247	0.75
20	MP2A	Z	40.557	0.75
21	MP2A	Mx	0.006	0.75
22	MP2A	X	-70.247	5.75
23	MP2A	Z	40.557	5.75
24	MP2A	Mx	0.006	5.75
25	MP2B	X	-70.247	0.75
26	MP2B	Z	40.557	0.75
27	MP2B	Mx	-0.065	0.75
28	MP2B	X	-70.247	5.75
29	MP2B	Z	40.557	5.75
30	MP2B	Mx	-0.065	5.75
31	MP2C	X	-86.585	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
32	MP2C	Z	49.99	0.75
33	MP2C	Mx	0.072	0.75
34	MP2C	X	-86.585	5.75
35	MP2C	Z	49.99	5.75
36	MP2C	Mx	0.072	5.75
37	MP4A	X	-29.701	2.25
38	MP4A	Z	17.148	2.25
39	MP4A	Mx	0.015	2.25
40	MP4A	X	-29.701	4.25
41	MP4A	Z	17.148	4.25
42	MP4A	Mx	0.015	4.25
43	MP4B	X	-29.701	2.25
44	MP4B	Z	17.148	2.25
45	MP4B	Mx	-0.015	2.25
46	MP4B	X	-29.701	4.25
47	MP4B	Z	17.148	4.25
48	MP4B	Mx	-0.015	4.25
49	MP4C	X	-57.845	2.25
50	MP4C	Z	33.397	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	-57.845	4.25
53	MP4C	Z	33.397	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	-42.743	0.5
56	MP2A	Z	24.678	0.5
57	MP2A	Mx	-0.021	0.5
58	MP2B	X	-42.743	0.5
59	MP2B	Z	24.678	0.5
60	MP2B	Mx	0.021	0.5
61	MP2C	X	-56.747	0.5
62	MP2C	Z	32.763	0.5
63	MP2C	Mx	0	0.5
64	MP1A	X	-52.125	0.5
65	MP1A	Z	30.094	0.5
66	MP1A	Mx	-0.026	0.5
67	MP1B	X	-52.125	0.5
68	MP1B	Z	30.094	0.5
69	MP1B	Mx	0.026	0.5
70	MP1C	X	-68.462	0.5
71	MP1C	Z	39.527	0.5
72	MP1C	Mx	0	0.5
73	M23	X	-88.232	1
74	M23	Z	50.941	1
75	M23	Mx	0	1
76	MP1A	X	-86.066	2
77	MP1A	Z	49.69	2
78	MP1A	Mx	0.043	2
79	MP1A	X	-86.066	4.5
80	MP1A	Z	49.69	4.5
81	MP1A	Mx	0.043	4.5
82	MP1B	X	-86.066	2
83	MP1B	Z	49.69	2
84	MP1B	Mx	-0.043	2
85	MP1B	X	-86.066	4.5
86	MP1B	Z	49.69	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
87	MP1B	Mx	-0.043	4.5
88	MP1C	X	-47.777	2
89	MP1C	Z	27.584	2
90	MP1C	Mx	0	2
91	MP1C	X	-47.777	4.5
92	MP1C	Z	27.584	4.5
93	MP1C	Mx	0	4.5
94	MP5A	X	-86.066	2
95	MP5A	Z	49.69	2
96	MP5A	Mx	0.043	2
97	MP5A	X	-86.066	4.5
98	MP5A	Z	49.69	4.5
99	MP5A	Mx	0.043	4.5
100	MP5B	X	-86.066	2
101	MP5B	Z	49.69	2
102	MP5B	Mx	-0.043	2
103	MP5B	X	-86.066	4.5
104	MP5B	Z	49.69	4.5
105	MP5B	Mx	-0.043	4.5
106	MP5C	X	-47.777	2
107	MP5C	Z	27.584	2
108	MP5C	Mx	0	2
109	MP5C	X	-47.777	4.5
110	MP5C	Z	27.584	4.5
111	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-74.826	0.75
2	MP2A	Z	0	0.75
3	MP2A	Mx	0.037	0.75
4	MP2A	X	-74.826	5.75
5	MP2A	Z	0	5.75
6	MP2A	Mx	0.037	5.75
7	MP2B	X	-93.691	0.75
8	MP2B	Z	0	0.75
9	MP2B	Mx	0.035	0.75
10	MP2B	X	-93.691	5.75
11	MP2B	Z	0	5.75
12	MP2B	Mx	0.035	5.75
13	MP2C	X	-93.691	0.75
14	MP2C	Z	0	0.75
15	MP2C	Mx	-0.082	0.75
16	MP2C	X	-93.691	5.75
17	MP2C	Z	0	5.75
18	MP2C	Mx	-0.082	5.75
19	MP2A	X	-74.826	0.75
20	MP2A	Z	0	0.75
21	MP2A	Mx	0.037	0.75
22	MP2A	X	-74.826	5.75
23	MP2A	Z	0	5.75
24	MP2A	Mx	0.037	5.75
25	MP2B	X	-93.691	0.75
26	MP2B	Z	0	0.75
27	MP2B	Mx	-0.082	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP2B	X	-93.691	5.75
29	MP2B	Z	0	5.75
30	MP2B	Mx	-0.082	5.75
31	MP2C	X	-93.691	0.75
32	MP2C	Z	0	0.75
33	MP2C	Mx	0.035	0.75
34	MP2C	X	-93.691	5.75
35	MP2C	Z	0	5.75
36	MP2C	Mx	0.035	5.75
37	MP4A	X	-23.462	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	0.012	2.25
40	MP4A	X	-23.462	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	0.012	4.25
43	MP4B	X	-55.961	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	-0.014	2.25
46	MP4B	X	-55.961	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	-0.014	4.25
49	MP4C	X	-55.961	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	-0.014	2.25
52	MP4C	X	-55.961	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	-0.014	4.25
55	MP2A	X	-43.966	0.5
56	MP2A	Z	0	0.5
57	MP2A	Mx	-0.022	0.5
58	MP2B	X	-60.136	0.5
59	MP2B	Z	0	0.5
60	MP2B	Mx	0.015	0.5
61	MP2C	X	-60.136	0.5
62	MP2C	Z	0	0.5
63	MP2C	Mx	0.015	0.5
64	MP1A	X	-53.9	0.5
65	MP1A	Z	0	0.5
66	MP1A	Mx	-0.027	0.5
67	MP1B	X	-72.765	0.5
68	MP1B	Z	0	0.5
69	MP1B	Mx	0.018	0.5
70	MP1C	X	-72.765	0.5
71	MP1C	Z	0	0.5
72	MP1C	Mx	0.018	0.5
73	M23	X	-109.914	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	MP1A	X	-114.117	2
77	MP1A	Z	0	2
78	MP1A	Mx	0.057	2
79	MP1A	X	-114.117	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	0.057	4.5
82	MP1B	X	-69.906	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP1B	Z	0	2
84	MP1B	Mx	-0.017	2
85	MP1B	X	-69.906	4.5
86	MP1B	Z	0	4.5
87	MP1B	Mx	-0.017	4.5
88	MP1C	X	-69.906	2
89	MP1C	Z	0	2
90	MP1C	Mx	-0.017	2
91	MP1C	X	-69.906	4.5
92	MP1C	Z	0	4.5
93	MP1C	Mx	-0.017	4.5
94	MP5A	X	-114.117	2
95	MP5A	Z	0	2
96	MP5A	Mx	0.057	2
97	MP5A	X	-114.117	4.5
98	MP5A	Z	0	4.5
99	MP5A	Mx	0.057	4.5
100	MP5B	X	-69.906	2
101	MP5B	Z	0	2
102	MP5B	Mx	-0.017	2
103	MP5B	X	-69.906	4.5
104	MP5B	Z	0	4.5
105	MP5B	Mx	-0.017	4.5
106	MP5C	X	-69.906	2
107	MP5C	Z	0	2
108	MP5C	Mx	-0.017	2
109	MP5C	X	-69.906	4.5
110	MP5C	Z	0	4.5
111	MP5C	Mx	-0.017	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-70.247	0.75
2	MP2A	Z	-40.557	0.75
3	MP2A	Mx	0.006	0.75
4	MP2A	X	-70.247	5.75
5	MP2A	Z	-40.557	5.75
6	MP2A	Mx	0.006	5.75
7	MP2B	X	-86.585	0.75
8	MP2B	Z	-49.99	0.75
9	MP2B	Mx	0.072	0.75
10	MP2B	X	-86.585	5.75
11	MP2B	Z	-49.99	5.75
12	MP2B	Mx	0.072	5.75
13	MP2C	X	-70.247	0.75
14	MP2C	Z	-40.557	0.75
15	MP2C	Mx	-0.065	0.75
16	MP2C	X	-70.247	5.75
17	MP2C	Z	-40.557	5.75
18	MP2C	Mx	-0.065	5.75
19	MP2A	X	-70.247	0.75
20	MP2A	Z	-40.557	0.75
21	MP2A	Mx	0.065	0.75
22	MP2A	X	-70.247	5.75
23	MP2A	Z	-40.557	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP2A	Mx	0.065	5.75
25	MP2B	X	-86.585	0.75
26	MP2B	Z	-49.99	0.75
27	MP2B	Mx	-0.072	0.75
28	MP2B	X	-86.585	5.75
29	MP2B	Z	-49.99	5.75
30	MP2B	Mx	-0.072	5.75
31	MP2C	X	-70.247	0.75
32	MP2C	Z	-40.557	0.75
33	MP2C	Mx	-0.006	0.75
34	MP2C	X	-70.247	5.75
35	MP2C	Z	-40.557	5.75
36	MP2C	Mx	-0.006	5.75
37	MP4A	X	-29.701	2.25
38	MP4A	Z	-17.148	2.25
39	MP4A	Mx	0.015	2.25
40	MP4A	X	-29.701	4.25
41	MP4A	Z	-17.148	4.25
42	MP4A	Mx	0.015	4.25
43	MP4B	X	-57.845	2.25
44	MP4B	Z	-33.397	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	-57.845	4.25
47	MP4B	Z	-33.397	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	-29.701	2.25
50	MP4C	Z	-17.148	2.25
51	MP4C	Mx	-0.015	2.25
52	MP4C	X	-29.701	4.25
53	MP4C	Z	-17.148	4.25
54	MP4C	Mx	-0.015	4.25
55	MP2A	X	-42.743	0.5
56	MP2A	Z	-24.678	0.5
57	MP2A	Mx	-0.021	0.5
58	MP2B	X	-56.747	0.5
59	MP2B	Z	-32.763	0.5
60	MP2B	Mx	0	0.5
61	MP2C	X	-42.743	0.5
62	MP2C	Z	-24.678	0.5
63	MP2C	Mx	0.021	0.5
64	MP1A	X	-52.125	0.5
65	MP1A	Z	-30.094	0.5
66	MP1A	Mx	-0.026	0.5
67	MP1B	X	-68.462	0.5
68	MP1B	Z	-39.527	0.5
69	MP1B	Mx	0	0.5
70	MP1C	X	-52.125	0.5
71	MP1C	Z	-30.094	0.5
72	MP1C	Mx	0.026	0.5
73	M23	X	-109.1	1
74	M23	Z	-62.989	1
75	M23	Mx	0	1
76	MP1A	X	-86.066	2
77	MP1A	Z	-49.69	2
78	MP1A	Mx	0.043	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP1A	X	-86.066	4.5
80	MP1A	Z	-49.69	4.5
81	MP1A	Mx	0.043	4.5
82	MP1B	X	-47.777	2
83	MP1B	Z	-27.584	2
84	MP1B	Mx	0	2
85	MP1B	X	-47.777	4.5
86	MP1B	Z	-27.584	4.5
87	MP1B	Mx	0	4.5
88	MP1C	X	-86.066	2
89	MP1C	Z	-49.69	2
90	MP1C	Mx	-0.043	2
91	MP1C	X	-86.066	4.5
92	MP1C	Z	-49.69	4.5
93	MP1C	Mx	-0.043	4.5
94	MP5A	X	-86.066	2
95	MP5A	Z	-49.69	2
96	MP5A	Mx	0.043	2
97	MP5A	X	-86.066	4.5
98	MP5A	Z	-49.69	4.5
99	MP5A	Mx	0.043	4.5
100	MP5B	X	-47.777	2
101	MP5B	Z	-27.584	2
102	MP5B	Mx	0	2
103	MP5B	X	-47.777	4.5
104	MP5B	Z	-27.584	4.5
105	MP5B	Mx	0	4.5
106	MP5C	X	-86.066	2
107	MP5C	Z	-49.69	2
108	MP5C	Mx	-0.043	2
109	MP5C	X	-86.066	4.5
110	MP5C	Z	-49.69	4.5
111	MP5C	Mx	-0.043	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-46.846	0.75
2	MP2A	Z	-81.139	0.75
3	MP2A	Mx	-0.035	0.75
4	MP2A	X	-46.846	5.75
5	MP2A	Z	-81.139	5.75
6	MP2A	Mx	-0.035	5.75
7	MP2B	X	-46.846	0.75
8	MP2B	Z	-81.139	0.75
9	MP2B	Mx	0.082	0.75
10	MP2B	X	-46.846	5.75
11	MP2B	Z	-81.139	5.75
12	MP2B	Mx	0.082	5.75
13	MP2C	X	-37.413	0.75
14	MP2C	Z	-64.801	0.75
15	MP2C	Mx	-0.037	0.75
16	MP2C	X	-37.413	5.75
17	MP2C	Z	-64.801	5.75
18	MP2C	Mx	-0.037	5.75
19	MP2A	X	-46.846	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
20	MP2A	Z	-81.139	0.75
21	MP2A	Mx	0.082	0.75
22	MP2A	X	-46.846	5.75
23	MP2A	Z	-81.139	5.75
24	MP2A	Mx	0.082	5.75
25	MP2B	X	-46.846	0.75
26	MP2B	Z	-81.139	0.75
27	MP2B	Mx	-0.035	0.75
28	MP2B	X	-46.846	5.75
29	MP2B	Z	-81.139	5.75
30	MP2B	Mx	-0.035	5.75
31	MP2C	X	-37.413	0.75
32	MP2C	Z	-64.801	0.75
33	MP2C	Mx	-0.037	0.75
34	MP2C	X	-37.413	5.75
35	MP2C	Z	-64.801	5.75
36	MP2C	Mx	-0.037	5.75
37	MP4A	X	-27.98	2.25
38	MP4A	Z	-48.464	2.25
39	MP4A	Mx	0.014	2.25
40	MP4A	X	-27.98	4.25
41	MP4A	Z	-48.464	4.25
42	MP4A	Mx	0.014	4.25
43	MP4B	X	-27.98	2.25
44	MP4B	Z	-48.464	2.25
45	MP4B	Mx	0.014	2.25
46	MP4B	X	-27.98	4.25
47	MP4B	Z	-48.464	4.25
48	MP4B	Mx	0.014	4.25
49	MP4C	X	-11.731	2.25
50	MP4C	Z	-20.319	2.25
51	MP4C	Mx	-0.012	2.25
52	MP4C	X	-11.731	4.25
53	MP4C	Z	-20.319	4.25
54	MP4C	Mx	-0.012	4.25
55	MP2A	X	-30.068	0.5
56	MP2A	Z	-52.079	0.5
57	MP2A	Mx	-0.015	0.5
58	MP2B	X	-30.068	0.5
59	MP2B	Z	-52.079	0.5
60	MP2B	Mx	-0.015	0.5
61	MP2C	X	-21.983	0.5
62	MP2C	Z	-38.075	0.5
63	MP2C	Mx	0.022	0.5
64	MP1A	X	-36.383	0.5
65	MP1A	Z	-63.016	0.5
66	MP1A	Mx	-0.018	0.5
67	MP1B	X	-36.383	0.5
68	MP1B	Z	-63.016	0.5
69	MP1B	Mx	-0.018	0.5
70	MP1C	X	-26.95	0.5
71	MP1C	Z	-46.679	0.5
72	MP1C	Mx	0.027	0.5
73	M23	X	-67.005	1
74	M23	Z	-116.056	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
75	M23	Mx	0	1
76	MP1A	X	-34.953	2
77	MP1A	Z	-60.54	2
78	MP1A	Mx	0.017	2
79	MP1A	X	-34.953	4.5
80	MP1A	Z	-60.54	4.5
81	MP1A	Mx	0.017	4.5
82	MP1B	X	-34.953	2
83	MP1B	Z	-60.54	2
84	MP1B	Mx	0.017	2
85	MP1B	X	-34.953	4.5
86	MP1B	Z	-60.54	4.5
87	MP1B	Mx	0.017	4.5
88	MP1C	X	-57.059	2
89	MP1C	Z	-98.829	2
90	MP1C	Mx	-0.057	2
91	MP1C	X	-57.059	4.5
92	MP1C	Z	-98.829	4.5
93	MP1C	Mx	-0.057	4.5
94	MP5A	X	-34.953	2
95	MP5A	Z	-60.54	2
96	MP5A	Mx	0.017	2
97	MP5A	X	-34.953	4.5
98	MP5A	Z	-60.54	4.5
99	MP5A	Mx	0.017	4.5
100	MP5B	X	-34.953	2
101	MP5B	Z	-60.54	2
102	MP5B	Mx	0.017	2
103	MP5B	X	-34.953	4.5
104	MP5B	Z	-60.54	4.5
105	MP5B	Mx	0.017	4.5
106	MP5C	X	-57.059	2
107	MP5C	Z	-98.829	2
108	MP5C	Mx	-0.057	2
109	MP5C	X	-57.059	4.5
110	MP5C	Z	-98.829	4.5
111	MP5C	Mx	-0.057	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	0.75
2	MP2A	Z	-33.728	0.75
3	MP2A	Mx	-0.024	0.75
4	MP2A	X	0	5.75
5	MP2A	Z	-33.728	5.75
6	MP2A	Mx	-0.024	5.75
7	MP2B	X	0	0.75
8	MP2B	Z	-27.578	0.75
9	MP2B	Mx	0.022	0.75
10	MP2B	X	0	5.75
11	MP2B	Z	-27.578	5.75
12	MP2B	Mx	0.022	5.75
13	MP2C	X	0	0.75
14	MP2C	Z	-27.578	0.75
15	MP2C	Mx	-0.002	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP2C	X	0	5.75
17	MP2C	Z	-27.578	5.75
18	MP2C	Mx	-0.002	5.75
19	MP2A	X	0	0.75
20	MP2A	Z	-33.728	0.75
21	MP2A	Mx	0.024	0.75
22	MP2A	X	0	5.75
23	MP2A	Z	-33.728	5.75
24	MP2A	Mx	0.024	5.75
25	MP2B	X	0	0.75
26	MP2B	Z	-27.578	0.75
27	MP2B	Mx	0.002	0.75
28	MP2B	X	0	5.75
29	MP2B	Z	-27.578	5.75
30	MP2B	Mx	0.002	5.75
31	MP2C	X	0	0.75
32	MP2C	Z	-27.578	0.75
33	MP2C	Mx	-0.022	0.75
34	MP2C	X	0	5.75
35	MP2C	Z	-27.578	5.75
36	MP2C	Mx	-0.022	5.75
37	MP4A	X	0	2.25
38	MP4A	Z	-13.592	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	-13.592	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	-7.713	2.25
45	MP4B	Mx	0.003	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	-7.713	4.25
48	MP4B	Mx	0.003	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	-7.713	2.25
51	MP4C	Mx	-0.003	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	-7.713	4.25
54	MP4C	Mx	-0.003	4.25
55	MP2A	X	0	0.5
56	MP2A	Z	-14.055	0.5
57	MP2A	Mx	0	0.5
58	MP2B	X	0	0.5
59	MP2B	Z	-10.854	0.5
60	MP2B	Mx	-0.005	0.5
61	MP2C	X	0	0.5
62	MP2C	Z	-10.854	0.5
63	MP2C	Mx	0.005	0.5
64	MP1A	X	0	0.5
65	MP1A	Z	-14.055	0.5
66	MP1A	Mx	0	0.5
67	MP1B	X	0	0.5
68	MP1B	Z	-10.982	0.5
69	MP1B	Mx	-0.005	0.5
70	MP1C	X	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	MP1C	Z	-10.982	0.5
72	MP1C	Mx	0.005	0.5
73	M23	X	0	1
74	M23	Z	-27.279	1
75	M23	Mx	0	1
76	MP1A	X	0	2
77	MP1A	Z	-9.937	2
78	MP1A	Mx	0	2
79	MP1A	X	0	4.5
80	MP1A	Z	-9.937	4.5
81	MP1A	Mx	0	4.5
82	MP1B	X	0	2
83	MP1B	Z	-16.7	2
84	MP1B	Mx	0.007	2
85	MP1B	X	0	4.5
86	MP1B	Z	-16.7	4.5
87	MP1B	Mx	0.007	4.5
88	MP1C	X	0	2
89	MP1C	Z	-16.7	2
90	MP1C	Mx	-0.007	2
91	MP1C	X	0	4.5
92	MP1C	Z	-16.7	4.5
93	MP1C	Mx	-0.007	4.5
94	MP5A	X	0	2
95	MP5A	Z	-9.937	2
96	MP5A	Mx	0	2
97	MP5A	X	0	4.5
98	MP5A	Z	-9.937	4.5
99	MP5A	Mx	0	4.5
100	MP5B	X	0	2
101	MP5B	Z	-16.7	2
102	MP5B	Mx	0.007	2
103	MP5B	X	0	4.5
104	MP5B	Z	-16.7	4.5
105	MP5B	Mx	0.007	4.5
106	MP5C	X	0	2
107	MP5C	Z	-16.7	2
108	MP5C	Mx	-0.007	2
109	MP5C	X	0	4.5
110	MP5C	Z	-16.7	4.5
111	MP5C	Mx	-0.007	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	15.839	0.75
2	MP2A	Z	-27.434	0.75
3	MP2A	Mx	-0.028	0.75
4	MP2A	X	15.839	5.75
5	MP2A	Z	-27.434	5.75
6	MP2A	Mx	-0.028	5.75
7	MP2B	X	12.764	0.75
8	MP2B	Z	-22.108	0.75
9	MP2B	Mx	0.013	0.75
10	MP2B	X	12.764	5.75
11	MP2B	Z	-22.108	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	0.013	5.75
13	MP2C	X	15.839	0.75
14	MP2C	Z	-27.434	0.75
15	MP2C	Mx	0.012	0.75
16	MP2C	X	15.839	5.75
17	MP2C	Z	-27.434	5.75
18	MP2C	Mx	0.012	5.75
19	MP2A	X	15.839	0.75
20	MP2A	Z	-27.434	0.75
21	MP2A	Mx	0.012	0.75
22	MP2A	X	15.839	5.75
23	MP2A	Z	-27.434	5.75
24	MP2A	Mx	0.012	5.75
25	MP2B	X	12.764	0.75
26	MP2B	Z	-22.108	0.75
27	MP2B	Mx	0.013	0.75
28	MP2B	X	12.764	5.75
29	MP2B	Z	-22.108	5.75
30	MP2B	Mx	0.013	5.75
31	MP2C	X	15.839	0.75
32	MP2C	Z	-27.434	0.75
33	MP2C	Mx	-0.028	0.75
34	MP2C	X	15.839	5.75
35	MP2C	Z	-27.434	5.75
36	MP2C	Mx	-0.028	5.75
37	MP4A	X	5.816	2.25
38	MP4A	Z	-10.074	2.25
39	MP4A	Mx	-0.003	2.25
40	MP4A	X	5.816	4.25
41	MP4A	Z	-10.074	4.25
42	MP4A	Mx	-0.003	4.25
43	MP4B	X	2.877	2.25
44	MP4B	Z	-4.982	2.25
45	MP4B	Mx	0.003	2.25
46	MP4B	X	2.877	4.25
47	MP4B	Z	-4.982	4.25
48	MP4B	Mx	0.003	4.25
49	MP4C	X	5.816	2.25
50	MP4C	Z	-10.074	2.25
51	MP4C	Mx	-0.003	2.25
52	MP4C	X	5.816	4.25
53	MP4C	Z	-10.074	4.25
54	MP4C	Mx	-0.003	4.25
55	MP2A	X	6.494	0.5
56	MP2A	Z	-11.248	0.5
57	MP2A	Mx	0.003	0.5
58	MP2B	X	4.893	0.5
59	MP2B	Z	-8.476	0.5
60	MP2B	Mx	-0.005	0.5
61	MP2C	X	6.494	0.5
62	MP2C	Z	-11.248	0.5
63	MP2C	Mx	0.003	0.5
64	MP1A	X	6.515	0.5
65	MP1A	Z	-11.285	0.5
66	MP1A	Mx	0.003	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP1B	X	4.979	0.5
68	MP1B	Z	-8.624	0.5
69	MP1B	Mx	-0.005	0.5
70	MP1C	X	6.515	0.5
71	MP1C	Z	-11.285	0.5
72	MP1C	Mx	0.003	0.5
73	M23	X	12.07	1
74	M23	Z	-20.906	1
75	M23	Mx	0	1
76	MP1A	X	6.096	2
77	MP1A	Z	-10.558	2
78	MP1A	Mx	-0.003	2
79	MP1A	X	6.096	4.5
80	MP1A	Z	-10.558	4.5
81	MP1A	Mx	-0.003	4.5
82	MP1B	X	9.477	2
83	MP1B	Z	-16.414	2
84	MP1B	Mx	0.009	2
85	MP1B	X	9.477	4.5
86	MP1B	Z	-16.414	4.5
87	MP1B	Mx	0.009	4.5
88	MP1C	X	6.096	2
89	MP1C	Z	-10.558	2
90	MP1C	Mx	-0.003	2
91	MP1C	X	6.096	4.5
92	MP1C	Z	-10.558	4.5
93	MP1C	Mx	-0.003	4.5
94	MP5A	X	6.096	2
95	MP5A	Z	-10.558	2
96	MP5A	Mx	-0.003	2
97	MP5A	X	6.096	4.5
98	MP5A	Z	-10.558	4.5
99	MP5A	Mx	-0.003	4.5
100	MP5B	X	9.477	2
101	MP5B	Z	-16.414	2
102	MP5B	Mx	0.009	2
103	MP5B	X	9.477	4.5
104	MP5B	Z	-16.414	4.5
105	MP5B	Mx	0.009	4.5
106	MP5C	X	6.096	2
107	MP5C	Z	-10.558	2
108	MP5C	Mx	-0.003	2
109	MP5C	X	6.096	4.5
110	MP5C	Z	-10.558	4.5
111	MP5C	Mx	-0.003	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	23.883	0.75
2	MP2A	Z	-13.789	0.75
3	MP2A	Mx	-0.022	0.75
4	MP2A	X	23.883	5.75
5	MP2A	Z	-13.789	5.75
6	MP2A	Mx	-0.022	5.75
7	MP2B	X	23.883	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
8	MP2B	Z	-13.789	0.75
9	MP2B	Mx	0.002	0.75
10	MP2B	X	23.883	5.75
11	MP2B	Z	-13.789	5.75
12	MP2B	Mx	0.002	5.75
13	MP2C	X	29.21	0.75
14	MP2C	Z	-16.864	0.75
15	MP2C	Mx	0.024	0.75
16	MP2C	X	29.21	5.75
17	MP2C	Z	-16.864	5.75
18	MP2C	Mx	0.024	5.75
19	MP2A	X	23.883	0.75
20	MP2A	Z	-13.789	0.75
21	MP2A	Mx	-0.002	0.75
22	MP2A	X	23.883	5.75
23	MP2A	Z	-13.789	5.75
24	MP2A	Mx	-0.002	5.75
25	MP2B	X	23.883	0.75
26	MP2B	Z	-13.789	0.75
27	MP2B	Mx	0.022	0.75
28	MP2B	X	23.883	5.75
29	MP2B	Z	-13.789	5.75
30	MP2B	Mx	0.022	5.75
31	MP2C	X	29.21	0.75
32	MP2C	Z	-16.864	0.75
33	MP2C	Mx	-0.024	0.75
34	MP2C	X	29.21	5.75
35	MP2C	Z	-16.864	5.75
36	MP2C	Mx	-0.024	5.75
37	MP4A	X	6.679	2.25
38	MP4A	Z	-3.856	2.25
39	MP4A	Mx	-0.003	2.25
40	MP4A	X	6.679	4.25
41	MP4A	Z	-3.856	4.25
42	MP4A	Mx	-0.003	4.25
43	MP4B	X	6.679	2.25
44	MP4B	Z	-3.856	2.25
45	MP4B	Mx	0.003	2.25
46	MP4B	X	6.679	4.25
47	MP4B	Z	-3.856	4.25
48	MP4B	Mx	0.003	4.25
49	MP4C	X	11.771	2.25
50	MP4C	Z	-6.796	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	11.771	4.25
53	MP4C	Z	-6.796	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	9.4	0.5
56	MP2A	Z	-5.427	0.5
57	MP2A	Mx	0.005	0.5
58	MP2B	X	9.4	0.5
59	MP2B	Z	-5.427	0.5
60	MP2B	Mx	-0.005	0.5
61	MP2C	X	12.172	0.5
62	MP2C	Z	-7.028	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
63	MP2C	Mx	0	0.5
64	MP1A	X	9.511	0.5
65	MP1A	Z	-5.491	0.5
66	MP1A	Mx	0.005	0.5
67	MP1B	X	9.511	0.5
68	MP1B	Z	-5.491	0.5
69	MP1B	Mx	-0.005	0.5
70	MP1C	X	12.172	0.5
71	MP1C	Z	-7.028	0.5
72	MP1C	Mx	0	0.5
73	M23	X	19.547	1
74	M23	Z	-11.286	1
75	M23	Mx	0	1
76	MP1A	X	14.462	2
77	MP1A	Z	-8.35	2
78	MP1A	Mx	-0.007	2
79	MP1A	X	14.462	4.5
80	MP1A	Z	-8.35	4.5
81	MP1A	Mx	-0.007	4.5
82	MP1B	X	14.462	2
83	MP1B	Z	-8.35	2
84	MP1B	Mx	0.007	2
85	MP1B	X	14.462	4.5
86	MP1B	Z	-8.35	4.5
87	MP1B	Mx	0.007	4.5
88	MP1C	X	8.606	2
89	MP1C	Z	-4.969	2
90	MP1C	Mx	0	2
91	MP1C	X	8.606	4.5
92	MP1C	Z	-4.969	4.5
93	MP1C	Mx	0	4.5
94	MP5A	X	14.462	2
95	MP5A	Z	-8.35	2
96	MP5A	Mx	-0.007	2
97	MP5A	X	14.462	4.5
98	MP5A	Z	-8.35	4.5
99	MP5A	Mx	-0.007	4.5
100	MP5B	X	14.462	2
101	MP5B	Z	-8.35	2
102	MP5B	Mx	0.007	2
103	MP5B	X	14.462	4.5
104	MP5B	Z	-8.35	4.5
105	MP5B	Mx	0.007	4.5
106	MP5C	X	8.606	2
107	MP5C	Z	-4.969	2
108	MP5C	Mx	0	2
109	MP5C	X	8.606	4.5
110	MP5C	Z	-4.969	4.5
111	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	25.528	0.75
2	MP2A	Z	0	0.75
3	MP2A	Mx	-0.013	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
4	MP2A	X	25.528	5.75
5	MP2A	Z	0	5.75
6	MP2A	Mx	-0.013	5.75
7	MP2B	X	31.678	0.75
8	MP2B	Z	0	0.75
9	MP2B	Mx	-0.012	0.75
10	MP2B	X	31.678	5.75
11	MP2B	Z	0	5.75
12	MP2B	Mx	-0.012	5.75
13	MP2C	X	31.678	0.75
14	MP2C	Z	0	0.75
15	MP2C	Mx	0.028	0.75
16	MP2C	X	31.678	5.75
17	MP2C	Z	0	5.75
18	MP2C	Mx	0.028	5.75
19	MP2A	X	25.528	0.75
20	MP2A	Z	0	0.75
21	MP2A	Mx	-0.013	0.75
22	MP2A	X	25.528	5.75
23	MP2A	Z	0	5.75
24	MP2A	Mx	-0.013	5.75
25	MP2B	X	31.678	0.75
26	MP2B	Z	0	0.75
27	MP2B	Mx	0.028	0.75
28	MP2B	X	31.678	5.75
29	MP2B	Z	0	5.75
30	MP2B	Mx	0.028	5.75
31	MP2C	X	31.678	0.75
32	MP2C	Z	0	0.75
33	MP2C	Mx	-0.012	0.75
34	MP2C	X	31.678	5.75
35	MP2C	Z	0	5.75
36	MP2C	Mx	-0.012	5.75
37	MP4A	X	5.753	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	-0.003	2.25
40	MP4A	X	5.753	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	-0.003	4.25
43	MP4B	X	11.632	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	0.003	2.25
46	MP4B	X	11.632	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	0.003	4.25
49	MP4C	X	11.632	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	0.003	2.25
52	MP4C	X	11.632	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	0.003	4.25
55	MP2A	X	9.787	0.5
56	MP2A	Z	0	0.5
57	MP2A	Mx	0.005	0.5
58	MP2B	X	12.988	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
59	MP2B	Z	0	0.5
60	MP2B	Mx	-0.003	0.5
61	MP2C	X	12.988	0.5
62	MP2C	Z	0	0.5
63	MP2C	Mx	-0.003	0.5
64	MP1A	X	9.958	0.5
65	MP1A	Z	0	0.5
66	MP1A	Mx	0.005	0.5
67	MP1B	X	13.031	0.5
68	MP1B	Z	0	0.5
69	MP1B	Mx	-0.003	0.5
70	MP1C	X	13.031	0.5
71	MP1C	Z	0	0.5
72	MP1C	Mx	-0.003	0.5
73	M23	X	24.141	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	MP1A	X	18.954	2
77	MP1A	Z	0	2
78	MP1A	Mx	-0.009	2
79	MP1A	X	18.954	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	-0.009	4.5
82	MP1B	X	12.191	2
83	MP1B	Z	0	2
84	MP1B	Mx	0.003	2
85	MP1B	X	12.191	4.5
86	MP1B	Z	0	4.5
87	MP1B	Mx	0.003	4.5
88	MP1C	X	12.191	2
89	MP1C	Z	0	2
90	MP1C	Mx	0.003	2
91	MP1C	X	12.191	4.5
92	MP1C	Z	0	4.5
93	MP1C	Mx	0.003	4.5
94	MP5A	X	18.954	2
95	MP5A	Z	0	2
96	MP5A	Mx	-0.009	2
97	MP5A	X	18.954	4.5
98	MP5A	Z	0	4.5
99	MP5A	Mx	-0.009	4.5
100	MP5B	X	12.191	2
101	MP5B	Z	0	2
102	MP5B	Mx	0.003	2
103	MP5B	X	12.191	4.5
104	MP5B	Z	0	4.5
105	MP5B	Mx	0.003	4.5
106	MP5C	X	12.191	2
107	MP5C	Z	0	2
108	MP5C	Mx	0.003	2
109	MP5C	X	12.191	4.5
110	MP5C	Z	0	4.5
111	MP5C	Mx	0.003	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	23.883	0.75
2	MP2A	Z	13.789	0.75
3	MP2A	Mx	-0.002	0.75
4	MP2A	X	23.883	5.75
5	MP2A	Z	13.789	5.75
6	MP2A	Mx	-0.002	5.75
7	MP2B	X	29.21	0.75
8	MP2B	Z	16.864	0.75
9	MP2B	Mx	-0.024	0.75
10	MP2B	X	29.21	5.75
11	MP2B	Z	16.864	5.75
12	MP2B	Mx	-0.024	5.75
13	MP2C	X	23.883	0.75
14	MP2C	Z	13.789	0.75
15	MP2C	Mx	0.022	0.75
16	MP2C	X	23.883	5.75
17	MP2C	Z	13.789	5.75
18	MP2C	Mx	0.022	5.75
19	MP2A	X	23.883	0.75
20	MP2A	Z	13.789	0.75
21	MP2A	Mx	-0.022	0.75
22	MP2A	X	23.883	5.75
23	MP2A	Z	13.789	5.75
24	MP2A	Mx	-0.022	5.75
25	MP2B	X	29.21	0.75
26	MP2B	Z	16.864	0.75
27	MP2B	Mx	0.024	0.75
28	MP2B	X	29.21	5.75
29	MP2B	Z	16.864	5.75
30	MP2B	Mx	0.024	5.75
31	MP2C	X	23.883	0.75
32	MP2C	Z	13.789	0.75
33	MP2C	Mx	0.002	0.75
34	MP2C	X	23.883	5.75
35	MP2C	Z	13.789	5.75
36	MP2C	Mx	0.002	5.75
37	MP4A	X	6.679	2.25
38	MP4A	Z	3.856	2.25
39	MP4A	Mx	-0.003	2.25
40	MP4A	X	6.679	4.25
41	MP4A	Z	3.856	4.25
42	MP4A	Mx	-0.003	4.25
43	MP4B	X	11.771	2.25
44	MP4B	Z	6.796	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	11.771	4.25
47	MP4B	Z	6.796	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	6.679	2.25
50	MP4C	Z	3.856	2.25
51	MP4C	Mx	0.003	2.25
52	MP4C	X	6.679	4.25
53	MP4C	Z	3.856	4.25
54	MP4C	Mx	0.003	4.25
55	MP2A	X	9.4	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP2A	Z	5.427	0.5
57	MP2A	Mx	0.005	0.5
58	MP2B	X	12.172	0.5
59	MP2B	Z	7.028	0.5
60	MP2B	Mx	0	0.5
61	MP2C	X	9.4	0.5
62	MP2C	Z	5.427	0.5
63	MP2C	Mx	-0.005	0.5
64	MP1A	X	9.511	0.5
65	MP1A	Z	5.491	0.5
66	MP1A	Mx	0.005	0.5
67	MP1B	X	12.172	0.5
68	MP1B	Z	7.028	0.5
69	MP1B	Mx	0	0.5
70	MP1C	X	9.511	0.5
71	MP1C	Z	5.491	0.5
72	MP1C	Mx	-0.005	0.5
73	M23	X	23.624	1
74	M23	Z	13.639	1
75	M23	Mx	0	1
76	MP1A	X	14.462	2
77	MP1A	Z	8.35	2
78	MP1A	Mx	-0.007	2
79	MP1A	X	14.462	4.5
80	MP1A	Z	8.35	4.5
81	MP1A	Mx	-0.007	4.5
82	MP1B	X	8.606	2
83	MP1B	Z	4.969	2
84	MP1B	Mx	0	2
85	MP1B	X	8.606	4.5
86	MP1B	Z	4.969	4.5
87	MP1B	Mx	0	4.5
88	MP1C	X	14.462	2
89	MP1C	Z	8.35	2
90	MP1C	Mx	0.007	2
91	MP1C	X	14.462	4.5
92	MP1C	Z	8.35	4.5
93	MP1C	Mx	0.007	4.5
94	MP5A	X	14.462	2
95	MP5A	Z	8.35	2
96	MP5A	Mx	-0.007	2
97	MP5A	X	14.462	4.5
98	MP5A	Z	8.35	4.5
99	MP5A	Mx	-0.007	4.5
100	MP5B	X	8.606	2
101	MP5B	Z	4.969	2
102	MP5B	Mx	0	2
103	MP5B	X	8.606	4.5
104	MP5B	Z	4.969	4.5
105	MP5B	Mx	0	4.5
106	MP5C	X	14.462	2
107	MP5C	Z	8.35	2
108	MP5C	Mx	0.007	2
109	MP5C	X	14.462	4.5
110	MP5C	Z	8.35	4.5



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP5C	Mx	0.007	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	15.839	0.75
2	MP2A	Z	27.434	0.75
3	MP2A	Mx	0.012	0.75
4	MP2A	X	15.839	5.75
5	MP2A	Z	27.434	5.75
6	MP2A	Mx	0.012	5.75
7	MP2B	X	15.839	0.75
8	MP2B	Z	27.434	0.75
9	MP2B	Mx	-0.028	0.75
10	MP2B	X	15.839	5.75
11	MP2B	Z	27.434	5.75
12	MP2B	Mx	-0.028	5.75
13	MP2C	X	12.764	0.75
14	MP2C	Z	22.108	0.75
15	MP2C	Mx	0.013	0.75
16	MP2C	X	12.764	5.75
17	MP2C	Z	22.108	5.75
18	MP2C	Mx	0.013	5.75
19	MP2A	X	15.839	0.75
20	MP2A	Z	27.434	0.75
21	MP2A	Mx	-0.028	0.75
22	MP2A	X	15.839	5.75
23	MP2A	Z	27.434	5.75
24	MP2A	Mx	-0.028	5.75
25	MP2B	X	15.839	0.75
26	MP2B	Z	27.434	0.75
27	MP2B	Mx	0.012	0.75
28	MP2B	X	15.839	5.75
29	MP2B	Z	27.434	5.75
30	MP2B	Mx	0.012	5.75
31	MP2C	X	12.764	0.75
32	MP2C	Z	22.108	0.75
33	MP2C	Mx	0.013	0.75
34	MP2C	X	12.764	5.75
35	MP2C	Z	22.108	5.75
36	MP2C	Mx	0.013	5.75
37	MP4A	X	5.816	2.25
38	MP4A	Z	10.074	2.25
39	MP4A	Mx	-0.003	2.25
40	MP4A	X	5.816	4.25
41	MP4A	Z	10.074	4.25
42	MP4A	Mx	-0.003	4.25
43	MP4B	X	5.816	2.25
44	MP4B	Z	10.074	2.25
45	MP4B	Mx	-0.003	2.25
46	MP4B	X	5.816	4.25
47	MP4B	Z	10.074	4.25
48	MP4B	Mx	-0.003	4.25
49	MP4C	X	2.877	2.25
50	MP4C	Z	4.982	2.25
51	MP4C	Mx	0.003	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
52	MP4C	X	2.877	4.25
53	MP4C	Z	4.982	4.25
54	MP4C	Mx	0.003	4.25
55	MP2A	X	6.494	0.5
56	MP2A	Z	11.248	0.5
57	MP2A	Mx	0.003	0.5
58	MP2B	X	6.494	0.5
59	MP2B	Z	11.248	0.5
60	MP2B	Mx	0.003	0.5
61	MP2C	X	4.893	0.5
62	MP2C	Z	8.476	0.5
63	MP2C	Mx	-0.005	0.5
64	MP1A	X	6.515	0.5
65	MP1A	Z	11.285	0.5
66	MP1A	Mx	0.003	0.5
67	MP1B	X	6.515	0.5
68	MP1B	Z	11.285	0.5
69	MP1B	Mx	0.003	0.5
70	MP1C	X	4.979	0.5
71	MP1C	Z	8.624	0.5
72	MP1C	Mx	-0.005	0.5
73	M23	X	14.424	1
74	M23	Z	24.983	1
75	M23	Mx	0	1
76	MP1A	X	6.096	2
77	MP1A	Z	10.558	2
78	MP1A	Mx	-0.003	2
79	MP1A	X	6.096	4.5
80	MP1A	Z	10.558	4.5
81	MP1A	Mx	-0.003	4.5
82	MP1B	X	6.096	2
83	MP1B	Z	10.558	2
84	MP1B	Mx	-0.003	2
85	MP1B	X	6.096	4.5
86	MP1B	Z	10.558	4.5
87	MP1B	Mx	-0.003	4.5
88	MP1C	X	9.477	2
89	MP1C	Z	16.414	2
90	MP1C	Mx	0.009	2
91	MP1C	X	9.477	4.5
92	MP1C	Z	16.414	4.5
93	MP1C	Mx	0.009	4.5
94	MP5A	X	6.096	2
95	MP5A	Z	10.558	2
96	MP5A	Mx	-0.003	2
97	MP5A	X	6.096	4.5
98	MP5A	Z	10.558	4.5
99	MP5A	Mx	-0.003	4.5
100	MP5B	X	6.096	2
101	MP5B	Z	10.558	2
102	MP5B	Mx	-0.003	2
103	MP5B	X	6.096	4.5
104	MP5B	Z	10.558	4.5
105	MP5B	Mx	-0.003	4.5
106	MP5C	X	9.477	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
107	MP5C	Z	16.414	2
108	MP5C	Mx	0.009	2
109	MP5C	X	9.477	4.5
110	MP5C	Z	16.414	4.5
111	MP5C	Mx	0.009	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	0.75
2	MP2A	Z	33.728	0.75
3	MP2A	Mx	0.024	0.75
4	MP2A	X	0	5.75
5	MP2A	Z	33.728	5.75
6	MP2A	Mx	0.024	5.75
7	MP2B	X	0	0.75
8	MP2B	Z	27.578	0.75
9	MP2B	Mx	-0.022	0.75
10	MP2B	X	0	5.75
11	MP2B	Z	27.578	5.75
12	MP2B	Mx	-0.022	5.75
13	MP2C	X	0	0.75
14	MP2C	Z	27.578	0.75
15	MP2C	Mx	0.002	0.75
16	MP2C	X	0	5.75
17	MP2C	Z	27.578	5.75
18	MP2C	Mx	0.002	5.75
19	MP2A	X	0	0.75
20	MP2A	Z	33.728	0.75
21	MP2A	Mx	-0.024	0.75
22	MP2A	X	0	5.75
23	MP2A	Z	33.728	5.75
24	MP2A	Mx	-0.024	5.75
25	MP2B	X	0	0.75
26	MP2B	Z	27.578	0.75
27	MP2B	Mx	-0.002	0.75
28	MP2B	X	0	5.75
29	MP2B	Z	27.578	5.75
30	MP2B	Mx	-0.002	5.75
31	MP2C	X	0	0.75
32	MP2C	Z	27.578	0.75
33	MP2C	Mx	0.022	0.75
34	MP2C	X	0	5.75
35	MP2C	Z	27.578	5.75
36	MP2C	Mx	0.022	5.75
37	MP4A	X	0	2.25
38	MP4A	Z	13.592	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	13.592	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	7.713	2.25
45	MP4B	Mx	-0.003	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	7.713	4.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
48	MP4B	Mx	-0.003	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	7.713	2.25
51	MP4C	Mx	0.003	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	7.713	4.25
54	MP4C	Mx	0.003	4.25
55	MP2A	X	0	0.5
56	MP2A	Z	14.055	0.5
57	MP2A	Mx	0	0.5
58	MP2B	X	0	0.5
59	MP2B	Z	10.854	0.5
60	MP2B	Mx	0.005	0.5
61	MP2C	X	0	0.5
62	MP2C	Z	10.854	0.5
63	MP2C	Mx	-0.005	0.5
64	MP1A	X	0	0.5
65	MP1A	Z	14.055	0.5
66	MP1A	Mx	0	0.5
67	MP1B	X	0	0.5
68	MP1B	Z	10.982	0.5
69	MP1B	Mx	0.005	0.5
70	MP1C	X	0	0.5
71	MP1C	Z	10.982	0.5
72	MP1C	Mx	-0.005	0.5
73	M23	X	0	1
74	M23	Z	27.279	1
75	M23	Mx	0	1
76	MP1A	X	0	2
77	MP1A	Z	9.937	2
78	MP1A	Mx	0	2
79	MP1A	X	0	4.5
80	MP1A	Z	9.937	4.5
81	MP1A	Mx	0	4.5
82	MP1B	X	0	2
83	MP1B	Z	16.7	2
84	MP1B	Mx	-0.007	2
85	MP1B	X	0	4.5
86	MP1B	Z	16.7	4.5
87	MP1B	Mx	-0.007	4.5
88	MP1C	X	0	2
89	MP1C	Z	16.7	2
90	MP1C	Mx	0.007	2
91	MP1C	X	0	4.5
92	MP1C	Z	16.7	4.5
93	MP1C	Mx	0.007	4.5
94	MP5A	X	0	2
95	MP5A	Z	9.937	2
96	MP5A	Mx	0	2
97	MP5A	X	0	4.5
98	MP5A	Z	9.937	4.5
99	MP5A	Mx	0	4.5
100	MP5B	X	0	2
101	MP5B	Z	16.7	2
102	MP5B	Mx	-0.007	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
103	MP5B	X	0	4.5
104	MP5B	Z	16.7	4.5
105	MP5B	Mx	-0.007	4.5
106	MP5C	X	0	2
107	MP5C	Z	16.7	2
108	MP5C	Mx	0.007	2
109	MP5C	X	0	4.5
110	MP5C	Z	16.7	4.5
111	MP5C	Mx	0.007	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-15.839	0.75
2	MP2A	Z	27.434	0.75
3	MP2A	Mx	0.028	0.75
4	MP2A	X	-15.839	5.75
5	MP2A	Z	27.434	5.75
6	MP2A	Mx	0.028	5.75
7	MP2B	X	-12.764	0.75
8	MP2B	Z	22.108	0.75
9	MP2B	Mx	-0.013	0.75
10	MP2B	X	-12.764	5.75
11	MP2B	Z	22.108	5.75
12	MP2B	Mx	-0.013	5.75
13	MP2C	X	-15.839	0.75
14	MP2C	Z	27.434	0.75
15	MP2C	Mx	-0.012	0.75
16	MP2C	X	-15.839	5.75
17	MP2C	Z	27.434	5.75
18	MP2C	Mx	-0.012	5.75
19	MP2A	X	-15.839	0.75
20	MP2A	Z	27.434	0.75
21	MP2A	Mx	-0.012	0.75
22	MP2A	X	-15.839	5.75
23	MP2A	Z	27.434	5.75
24	MP2A	Mx	-0.012	5.75
25	MP2B	X	-12.764	0.75
26	MP2B	Z	22.108	0.75
27	MP2B	Mx	-0.013	0.75
28	MP2B	X	-12.764	5.75
29	MP2B	Z	22.108	5.75
30	MP2B	Mx	-0.013	5.75
31	MP2C	X	-15.839	0.75
32	MP2C	Z	27.434	0.75
33	MP2C	Mx	0.028	0.75
34	MP2C	X	-15.839	5.75
35	MP2C	Z	27.434	5.75
36	MP2C	Mx	0.028	5.75
37	MP4A	X	-5.816	2.25
38	MP4A	Z	10.074	2.25
39	MP4A	Mx	0.003	2.25
40	MP4A	X	-5.816	4.25
41	MP4A	Z	10.074	4.25
42	MP4A	Mx	0.003	4.25
43	MP4B	X	-2.877	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
44	MP4B	Z	4.982	2.25
45	MP4B	Mx	-0.003	2.25
46	MP4B	X	-2.877	4.25
47	MP4B	Z	4.982	4.25
48	MP4B	Mx	-0.003	4.25
49	MP4C	X	-5.816	2.25
50	MP4C	Z	10.074	2.25
51	MP4C	Mx	0.003	2.25
52	MP4C	X	-5.816	4.25
53	MP4C	Z	10.074	4.25
54	MP4C	Mx	0.003	4.25
55	MP2A	X	-6.494	0.5
56	MP2A	Z	11.248	0.5
57	MP2A	Mx	-0.003	0.5
58	MP2B	X	-4.893	0.5
59	MP2B	Z	8.476	0.5
60	MP2B	Mx	0.005	0.5
61	MP2C	X	-6.494	0.5
62	MP2C	Z	11.248	0.5
63	MP2C	Mx	-0.003	0.5
64	MP1A	X	-6.515	0.5
65	MP1A	Z	11.285	0.5
66	MP1A	Mx	-0.003	0.5
67	MP1B	X	-4.979	0.5
68	MP1B	Z	8.624	0.5
69	MP1B	Mx	0.005	0.5
70	MP1C	X	-6.515	0.5
71	MP1C	Z	11.285	0.5
72	MP1C	Mx	-0.003	0.5
73	M23	X	-12.07	1
74	M23	Z	20.906	1
75	M23	Mx	0	1
76	MP1A	X	-6.096	2
77	MP1A	Z	10.558	2
78	MP1A	Mx	0.003	2
79	MP1A	X	-6.096	4.5
80	MP1A	Z	10.558	4.5
81	MP1A	Mx	0.003	4.5
82	MP1B	X	-9.477	2
83	MP1B	Z	16.414	2
84	MP1B	Mx	-0.009	2
85	MP1B	X	-9.477	4.5
86	MP1B	Z	16.414	4.5
87	MP1B	Mx	-0.009	4.5
88	MP1C	X	-6.096	2
89	MP1C	Z	10.558	2
90	MP1C	Mx	0.003	2
91	MP1C	X	-6.096	4.5
92	MP1C	Z	10.558	4.5
93	MP1C	Mx	0.003	4.5
94	MP5A	X	-6.096	2
95	MP5A	Z	10.558	2
96	MP5A	Mx	0.003	2
97	MP5A	X	-6.096	4.5
98	MP5A	Z	10.558	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
99	MP5A	Mx	0.003	4.5
100	MP5B	X	-9.477	2
101	MP5B	Z	16.414	2
102	MP5B	Mx	-0.009	2
103	MP5B	X	-9.477	4.5
104	MP5B	Z	16.414	4.5
105	MP5B	Mx	-0.009	4.5
106	MP5C	X	-6.096	2
107	MP5C	Z	10.558	2
108	MP5C	Mx	0.003	2
109	MP5C	X	-6.096	4.5
110	MP5C	Z	10.558	4.5
111	MP5C	Mx	0.003	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-23.883	0.75
2	MP2A	Z	13.789	0.75
3	MP2A	Mx	0.022	0.75
4	MP2A	X	-23.883	5.75
5	MP2A	Z	13.789	5.75
6	MP2A	Mx	0.022	5.75
7	MP2B	X	-23.883	0.75
8	MP2B	Z	13.789	0.75
9	MP2B	Mx	-0.002	0.75
10	MP2B	X	-23.883	5.75
11	MP2B	Z	13.789	5.75
12	MP2B	Mx	-0.002	5.75
13	MP2C	X	-29.21	0.75
14	MP2C	Z	16.864	0.75
15	MP2C	Mx	-0.024	0.75
16	MP2C	X	-29.21	5.75
17	MP2C	Z	16.864	5.75
18	MP2C	Mx	-0.024	5.75
19	MP2A	X	-23.883	0.75
20	MP2A	Z	13.789	0.75
21	MP2A	Mx	0.002	0.75
22	MP2A	X	-23.883	5.75
23	MP2A	Z	13.789	5.75
24	MP2A	Mx	0.002	5.75
25	MP2B	X	-23.883	0.75
26	MP2B	Z	13.789	0.75
27	MP2B	Mx	-0.022	0.75
28	MP2B	X	-23.883	5.75
29	MP2B	Z	13.789	5.75
30	MP2B	Mx	-0.022	5.75
31	MP2C	X	-29.21	0.75
32	MP2C	Z	16.864	0.75
33	MP2C	Mx	0.024	0.75
34	MP2C	X	-29.21	5.75
35	MP2C	Z	16.864	5.75
36	MP2C	Mx	0.024	5.75
37	MP4A	X	-6.679	2.25
38	MP4A	Z	3.856	2.25
39	MP4A	Mx	0.003	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP4A	X	-6.679	4.25
41	MP4A	Z	3.856	4.25
42	MP4A	Mx	0.003	4.25
43	MP4B	X	-6.679	2.25
44	MP4B	Z	3.856	2.25
45	MP4B	Mx	-0.003	2.25
46	MP4B	X	-6.679	4.25
47	MP4B	Z	3.856	4.25
48	MP4B	Mx	-0.003	4.25
49	MP4C	X	-11.771	2.25
50	MP4C	Z	6.796	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	-11.771	4.25
53	MP4C	Z	6.796	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	-9.4	0.5
56	MP2A	Z	5.427	0.5
57	MP2A	Mx	-0.005	0.5
58	MP2B	X	-9.4	0.5
59	MP2B	Z	5.427	0.5
60	MP2B	Mx	0.005	0.5
61	MP2C	X	-12.172	0.5
62	MP2C	Z	7.028	0.5
63	MP2C	Mx	0	0.5
64	MP1A	X	-9.511	0.5
65	MP1A	Z	5.491	0.5
66	MP1A	Mx	-0.005	0.5
67	MP1B	X	-9.511	0.5
68	MP1B	Z	5.491	0.5
69	MP1B	Mx	0.005	0.5
70	MP1C	X	-12.172	0.5
71	MP1C	Z	7.028	0.5
72	MP1C	Mx	0	0.5
73	M23	X	-19.547	1
74	M23	Z	11.286	1
75	M23	Mx	0	1
76	MP1A	X	-14.462	2
77	MP1A	Z	8.35	2
78	MP1A	Mx	0.007	2
79	MP1A	X	-14.462	4.5
80	MP1A	Z	8.35	4.5
81	MP1A	Mx	0.007	4.5
82	MP1B	X	-14.462	2
83	MP1B	Z	8.35	2
84	MP1B	Mx	-0.007	2
85	MP1B	X	-14.462	4.5
86	MP1B	Z	8.35	4.5
87	MP1B	Mx	-0.007	4.5
88	MP1C	X	-8.606	2
89	MP1C	Z	4.969	2
90	MP1C	Mx	0	2
91	MP1C	X	-8.606	4.5
92	MP1C	Z	4.969	4.5
93	MP1C	Mx	0	4.5
94	MP5A	X	-14.462	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP5A	Z	8.35	2
96	MP5A	Mx	0.007	2
97	MP5A	X	-14.462	4.5
98	MP5A	Z	8.35	4.5
99	MP5A	Mx	0.007	4.5
100	MP5B	X	-14.462	2
101	MP5B	Z	8.35	2
102	MP5B	Mx	-0.007	2
103	MP5B	X	-14.462	4.5
104	MP5B	Z	8.35	4.5
105	MP5B	Mx	-0.007	4.5
106	MP5C	X	-8.606	2
107	MP5C	Z	4.969	2
108	MP5C	Mx	0	2
109	MP5C	X	-8.606	4.5
110	MP5C	Z	4.969	4.5
111	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-25.528	0.75
2	MP2A	Z	0	0.75
3	MP2A	Mx	0.013	0.75
4	MP2A	X	-25.528	5.75
5	MP2A	Z	0	5.75
6	MP2A	Mx	0.013	5.75
7	MP2B	X	-31.678	0.75
8	MP2B	Z	0	0.75
9	MP2B	Mx	0.012	0.75
10	MP2B	X	-31.678	5.75
11	MP2B	Z	0	5.75
12	MP2B	Mx	0.012	5.75
13	MP2C	X	-31.678	0.75
14	MP2C	Z	0	0.75
15	MP2C	Mx	-0.028	0.75
16	MP2C	X	-31.678	5.75
17	MP2C	Z	0	5.75
18	MP2C	Mx	-0.028	5.75
19	MP2A	X	-25.528	0.75
20	MP2A	Z	0	0.75
21	MP2A	Mx	0.013	0.75
22	MP2A	X	-25.528	5.75
23	MP2A	Z	0	5.75
24	MP2A	Mx	0.013	5.75
25	MP2B	X	-31.678	0.75
26	MP2B	Z	0	0.75
27	MP2B	Mx	-0.028	0.75
28	MP2B	X	-31.678	5.75
29	MP2B	Z	0	5.75
30	MP2B	Mx	-0.028	5.75
31	MP2C	X	-31.678	0.75
32	MP2C	Z	0	0.75
33	MP2C	Mx	0.012	0.75
34	MP2C	X	-31.678	5.75
35	MP2C	Z	0	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
36	MP2C	Mx	0.012	5.75
37	MP4A	X	-5.753	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	0.003	2.25
40	MP4A	X	-5.753	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	0.003	4.25
43	MP4B	X	-11.632	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	-0.003	2.25
46	MP4B	X	-11.632	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	-0.003	4.25
49	MP4C	X	-11.632	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	-0.003	2.25
52	MP4C	X	-11.632	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	-0.003	4.25
55	MP2A	X	-9.787	0.5
56	MP2A	Z	0	0.5
57	MP2A	Mx	-0.005	0.5
58	MP2B	X	-12.988	0.5
59	MP2B	Z	0	0.5
60	MP2B	Mx	0.003	0.5
61	MP2C	X	-12.988	0.5
62	MP2C	Z	0	0.5
63	MP2C	Mx	0.003	0.5
64	MP1A	X	-9.958	0.5
65	MP1A	Z	0	0.5
66	MP1A	Mx	-0.005	0.5
67	MP1B	X	-13.031	0.5
68	MP1B	Z	0	0.5
69	MP1B	Mx	0.003	0.5
70	MP1C	X	-13.031	0.5
71	MP1C	Z	0	0.5
72	MP1C	Mx	0.003	0.5
73	M23	X	-24.141	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	MP1A	X	-18.954	2
77	MP1A	Z	0	2
78	MP1A	Mx	0.009	2
79	MP1A	X	-18.954	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	0.009	4.5
82	MP1B	X	-12.191	2
83	MP1B	Z	0	2
84	MP1B	Mx	-0.003	2
85	MP1B	X	-12.191	4.5
86	MP1B	Z	0	4.5
87	MP1B	Mx	-0.003	4.5
88	MP1C	X	-12.191	2
89	MP1C	Z	0	2
90	MP1C	Mx	-0.003	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
91	MP1C	X	-12.191	4.5
92	MP1C	Z	0	4.5
93	MP1C	Mx	-0.003	4.5
94	MP5A	X	-18.954	2
95	MP5A	Z	0	2
96	MP5A	Mx	0.009	2
97	MP5A	X	-18.954	4.5
98	MP5A	Z	0	4.5
99	MP5A	Mx	0.009	4.5
100	MP5B	X	-12.191	2
101	MP5B	Z	0	2
102	MP5B	Mx	-0.003	2
103	MP5B	X	-12.191	4.5
104	MP5B	Z	0	4.5
105	MP5B	Mx	-0.003	4.5
106	MP5C	X	-12.191	2
107	MP5C	Z	0	2
108	MP5C	Mx	-0.003	2
109	MP5C	X	-12.191	4.5
110	MP5C	Z	0	4.5
111	MP5C	Mx	-0.003	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-23.883	0.75
2	MP2A	Z	-13.789	0.75
3	MP2A	Mx	0.002	0.75
4	MP2A	X	-23.883	5.75
5	MP2A	Z	-13.789	5.75
6	MP2A	Mx	0.002	5.75
7	MP2B	X	-29.21	0.75
8	MP2B	Z	-16.864	0.75
9	MP2B	Mx	0.024	0.75
10	MP2B	X	-29.21	5.75
11	MP2B	Z	-16.864	5.75
12	MP2B	Mx	0.024	5.75
13	MP2C	X	-23.883	0.75
14	MP2C	Z	-13.789	0.75
15	MP2C	Mx	-0.022	0.75
16	MP2C	X	-23.883	5.75
17	MP2C	Z	-13.789	5.75
18	MP2C	Mx	-0.022	5.75
19	MP2A	X	-23.883	0.75
20	MP2A	Z	-13.789	0.75
21	MP2A	Mx	0.022	0.75
22	MP2A	X	-23.883	5.75
23	MP2A	Z	-13.789	5.75
24	MP2A	Mx	0.022	5.75
25	MP2B	X	-29.21	0.75
26	MP2B	Z	-16.864	0.75
27	MP2B	Mx	-0.024	0.75
28	MP2B	X	-29.21	5.75
29	MP2B	Z	-16.864	5.75
30	MP2B	Mx	-0.024	5.75
31	MP2C	X	-23.883	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
32	MP2C	Z	-13.789	0.75
33	MP2C	Mx	-0.002	0.75
34	MP2C	X	-23.883	5.75
35	MP2C	Z	-13.789	5.75
36	MP2C	Mx	-0.002	5.75
37	MP4A	X	-6.679	2.25
38	MP4A	Z	-3.856	2.25
39	MP4A	Mx	0.003	2.25
40	MP4A	X	-6.679	4.25
41	MP4A	Z	-3.856	4.25
42	MP4A	Mx	0.003	4.25
43	MP4B	X	-11.771	2.25
44	MP4B	Z	-6.796	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	-11.771	4.25
47	MP4B	Z	-6.796	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	-6.679	2.25
50	MP4C	Z	-3.856	2.25
51	MP4C	Mx	-0.003	2.25
52	MP4C	X	-6.679	4.25
53	MP4C	Z	-3.856	4.25
54	MP4C	Mx	-0.003	4.25
55	MP2A	X	-9.4	0.5
56	MP2A	Z	-5.427	0.5
57	MP2A	Mx	-0.005	0.5
58	MP2B	X	-12.172	0.5
59	MP2B	Z	-7.028	0.5
60	MP2B	Mx	0	0.5
61	MP2C	X	-9.4	0.5
62	MP2C	Z	-5.427	0.5
63	MP2C	Mx	0.005	0.5
64	MP1A	X	-9.511	0.5
65	MP1A	Z	-5.491	0.5
66	MP1A	Mx	-0.005	0.5
67	MP1B	X	-12.172	0.5
68	MP1B	Z	-7.028	0.5
69	MP1B	Mx	0	0.5
70	MP1C	X	-9.511	0.5
71	MP1C	Z	-5.491	0.5
72	MP1C	Mx	0.005	0.5
73	M23	X	-23.624	1
74	M23	Z	-13.639	1
75	M23	Mx	0	1
76	MP1A	X	-14.462	2
77	MP1A	Z	-8.35	2
78	MP1A	Mx	0.007	2
79	MP1A	X	-14.462	4.5
80	MP1A	Z	-8.35	4.5
81	MP1A	Mx	0.007	4.5
82	MP1B	X	-8.606	2
83	MP1B	Z	-4.969	2
84	MP1B	Mx	0	2
85	MP1B	X	-8.606	4.5
86	MP1B	Z	-4.969	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
87	MP1B	Mx	0	4.5
88	MP1C	X	-14.462	2
89	MP1C	Z	-8.35	2
90	MP1C	Mx	-0.007	2
91	MP1C	X	-14.462	4.5
92	MP1C	Z	-8.35	4.5
93	MP1C	Mx	-0.007	4.5
94	MP5A	X	-14.462	2
95	MP5A	Z	-8.35	2
96	MP5A	Mx	0.007	2
97	MP5A	X	-14.462	4.5
98	MP5A	Z	-8.35	4.5
99	MP5A	Mx	0.007	4.5
100	MP5B	X	-8.606	2
101	MP5B	Z	-4.969	2
102	MP5B	Mx	0	2
103	MP5B	X	-8.606	4.5
104	MP5B	Z	-4.969	4.5
105	MP5B	Mx	0	4.5
106	MP5C	X	-14.462	2
107	MP5C	Z	-8.35	2
108	MP5C	Mx	-0.007	2
109	MP5C	X	-14.462	4.5
110	MP5C	Z	-8.35	4.5
111	MP5C	Mx	-0.007	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-15.839	0.75
2	MP2A	Z	-27.434	0.75
3	MP2A	Mx	-0.012	0.75
4	MP2A	X	-15.839	5.75
5	MP2A	Z	-27.434	5.75
6	MP2A	Mx	-0.012	5.75
7	MP2B	X	-15.839	0.75
8	MP2B	Z	-27.434	0.75
9	MP2B	Mx	0.028	0.75
10	MP2B	X	-15.839	5.75
11	MP2B	Z	-27.434	5.75
12	MP2B	Mx	0.028	5.75
13	MP2C	X	-12.764	0.75
14	MP2C	Z	-22.108	0.75
15	MP2C	Mx	-0.013	0.75
16	MP2C	X	-12.764	5.75
17	MP2C	Z	-22.108	5.75
18	MP2C	Mx	-0.013	5.75
19	MP2A	X	-15.839	0.75
20	MP2A	Z	-27.434	0.75
21	MP2A	Mx	0.028	0.75
22	MP2A	X	-15.839	5.75
23	MP2A	Z	-27.434	5.75
24	MP2A	Mx	0.028	5.75
25	MP2B	X	-15.839	0.75
26	MP2B	Z	-27.434	0.75
27	MP2B	Mx	-0.012	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
28	MP2B	X	-15.839	5.75
29	MP2B	Z	-27.434	5.75
30	MP2B	Mx	-0.012	5.75
31	MP2C	X	-12.764	0.75
32	MP2C	Z	-22.108	0.75
33	MP2C	Mx	-0.013	0.75
34	MP2C	X	-12.764	5.75
35	MP2C	Z	-22.108	5.75
36	MP2C	Mx	-0.013	5.75
37	MP4A	X	-5.816	2.25
38	MP4A	Z	-10.074	2.25
39	MP4A	Mx	0.003	2.25
40	MP4A	X	-5.816	4.25
41	MP4A	Z	-10.074	4.25
42	MP4A	Mx	0.003	4.25
43	MP4B	X	-5.816	2.25
44	MP4B	Z	-10.074	2.25
45	MP4B	Mx	0.003	2.25
46	MP4B	X	-5.816	4.25
47	MP4B	Z	-10.074	4.25
48	MP4B	Mx	0.003	4.25
49	MP4C	X	-2.877	2.25
50	MP4C	Z	-4.982	2.25
51	MP4C	Mx	-0.003	2.25
52	MP4C	X	-2.877	4.25
53	MP4C	Z	-4.982	4.25
54	MP4C	Mx	-0.003	4.25
55	MP2A	X	-6.494	0.5
56	MP2A	Z	-11.248	0.5
57	MP2A	Mx	-0.003	0.5
58	MP2B	X	-6.494	0.5
59	MP2B	Z	-11.248	0.5
60	MP2B	Mx	-0.003	0.5
61	MP2C	X	-4.893	0.5
62	MP2C	Z	-8.476	0.5
63	MP2C	Mx	0.005	0.5
64	MP1A	X	-6.515	0.5
65	MP1A	Z	-11.285	0.5
66	MP1A	Mx	-0.003	0.5
67	MP1B	X	-6.515	0.5
68	MP1B	Z	-11.285	0.5
69	MP1B	Mx	-0.003	0.5
70	MP1C	X	-4.979	0.5
71	MP1C	Z	-8.624	0.5
72	MP1C	Mx	0.005	0.5
73	M23	X	-14.424	1
74	M23	Z	-24.983	1
75	M23	Mx	0	1
76	MP1A	X	-6.096	2
77	MP1A	Z	-10.558	2
78	MP1A	Mx	0.003	2
79	MP1A	X	-6.096	4.5
80	MP1A	Z	-10.558	4.5
81	MP1A	Mx	0.003	4.5
82	MP1B	X	-6.096	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
83	MP1B	Z	-10.558	2
84	MP1B	Mx	0.003	2
85	MP1B	X	-6.096	4.5
86	MP1B	Z	-10.558	4.5
87	MP1B	Mx	0.003	4.5
88	MP1C	X	-9.477	2
89	MP1C	Z	-16.414	2
90	MP1C	Mx	-0.009	2
91	MP1C	X	-9.477	4.5
92	MP1C	Z	-16.414	4.5
93	MP1C	Mx	-0.009	4.5
94	MP5A	X	-6.096	2
95	MP5A	Z	-10.558	2
96	MP5A	Mx	0.003	2
97	MP5A	X	-6.096	4.5
98	MP5A	Z	-10.558	4.5
99	MP5A	Mx	0.003	4.5
100	MP5B	X	-6.096	2
101	MP5B	Z	-10.558	2
102	MP5B	Mx	0.003	2
103	MP5B	X	-6.096	4.5
104	MP5B	Z	-10.558	4.5
105	MP5B	Mx	0.003	4.5
106	MP5C	X	-9.477	2
107	MP5C	Z	-16.414	2
108	MP5C	Mx	-0.009	2
109	MP5C	X	-9.477	4.5
110	MP5C	Z	-16.414	4.5
111	MP5C	Mx	-0.009	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	0.75
2	MP2A	Z	-5.324	0.75
3	MP2A	Mx	-0.004	0.75
4	MP2A	X	0	5.75
5	MP2A	Z	-5.324	5.75
6	MP2A	Mx	-0.004	5.75
7	MP2B	X	0	0.75
8	MP2B	Z	-4.32	0.75
9	MP2B	Mx	0.003	0.75
10	MP2B	X	0	5.75
11	MP2B	Z	-4.32	5.75
12	MP2B	Mx	0.003	5.75
13	MP2C	X	0	0.75
14	MP2C	Z	-4.32	0.75
15	MP2C	Mx	-0.000305	0.75
16	MP2C	X	0	5.75
17	MP2C	Z	-4.32	5.75
18	MP2C	Mx	-0.000305	5.75
19	MP2A	X	0	0.75
20	MP2A	Z	-5.324	0.75
21	MP2A	Mx	0.004	0.75
22	MP2A	X	0	5.75
23	MP2A	Z	-5.324	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP2A	Mx	0.004	5.75
25	MP2B	X	0	0.75
26	MP2B	Z	-4.32	0.75
27	MP2B	Mx	0.000305	0.75
28	MP2B	X	0	5.75
29	MP2B	Z	-4.32	5.75
30	MP2B	Mx	0.000305	5.75
31	MP2C	X	0	0.75
32	MP2C	Z	-4.32	0.75
33	MP2C	Mx	-0.003	0.75
34	MP2C	X	0	5.75
35	MP2C	Z	-4.32	5.75
36	MP2C	Mx	-0.003	5.75
37	MP4A	X	0	2.25
38	MP4A	Z	-3.557	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	-3.557	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	-1.826	2.25
45	MP4B	Mx	0.000791	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	-1.826	4.25
48	MP4B	Mx	0.000791	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	-1.826	2.25
51	MP4C	Mx	-0.000791	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	-1.826	4.25
54	MP4C	Mx	-0.000791	4.25
55	MP2A	X	0	0.5
56	MP2A	Z	-3.49	0.5
57	MP2A	Mx	0	0.5
58	MP2B	X	0	0.5
59	MP2B	Z	-2.628	0.5
60	MP2B	Mx	-0.001	0.5
61	MP2C	X	0	0.5
62	MP2C	Z	-2.628	0.5
63	MP2C	Mx	0.001	0.5
64	MP1A	X	0	0.5
65	MP1A	Z	-4.21	0.5
66	MP1A	Mx	0	0.5
67	MP1B	X	0	0.5
68	MP1B	Z	-3.205	0.5
69	MP1B	Mx	-0.001	0.5
70	MP1C	X	0	0.5
71	MP1C	Z	-3.205	0.5
72	MP1C	Mx	0.001	0.5
73	M23	X	0	1
74	M23	Z	-6.709	1
75	M23	Mx	0	1
76	MP1A	X	0	2
77	MP1A	Z	-2.938	2
78	MP1A	Mx	0	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP1A	X	0	4.5
80	MP1A	Z	-2.938	4.5
81	MP1A	Mx	0	4.5
82	MP1B	X	0	2
83	MP1B	Z	-5.292	2
84	MP1B	Mx	0.002	2
85	MP1B	X	0	4.5
86	MP1B	Z	-5.292	4.5
87	MP1B	Mx	0.002	4.5
88	MP1C	X	0	2
89	MP1C	Z	-5.292	2
90	MP1C	Mx	-0.002	2
91	MP1C	X	0	4.5
92	MP1C	Z	-5.292	4.5
93	MP1C	Mx	-0.002	4.5
94	MP5A	X	0	2
95	MP5A	Z	-2.938	2
96	MP5A	Mx	0	2
97	MP5A	X	0	4.5
98	MP5A	Z	-2.938	4.5
99	MP5A	Mx	0	4.5
100	MP5B	X	0	2
101	MP5B	Z	-5.292	2
102	MP5B	Mx	0.002	2
103	MP5B	X	0	4.5
104	MP5B	Z	-5.292	4.5
105	MP5B	Mx	0.002	4.5
106	MP5C	X	0	2
107	MP5C	Z	-5.292	2
108	MP5C	Mx	-0.002	2
109	MP5C	X	0	4.5
110	MP5C	Z	-5.292	4.5
111	MP5C	Mx	-0.002	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	2.495	0.75
2	MP2A	Z	-4.321	0.75
3	MP2A	Mx	-0.004	0.75
4	MP2A	X	2.495	5.75
5	MP2A	Z	-4.321	5.75
6	MP2A	Mx	-0.004	5.75
7	MP2B	X	1.992	0.75
8	MP2B	Z	-3.451	0.75
9	MP2B	Mx	0.002	0.75
10	MP2B	X	1.992	5.75
11	MP2B	Z	-3.451	5.75
12	MP2B	Mx	0.002	5.75
13	MP2C	X	2.495	0.75
14	MP2C	Z	-4.321	0.75
15	MP2C	Mx	0.002	0.75
16	MP2C	X	2.495	5.75
17	MP2C	Z	-4.321	5.75
18	MP2C	Mx	0.002	5.75
19	MP2A	X	2.495	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
20	MP2A	Z	-4.321	0.75
21	MP2A	Mx	0.002	0.75
22	MP2A	X	2.495	5.75
23	MP2A	Z	-4.321	5.75
24	MP2A	Mx	0.002	5.75
25	MP2B	X	1.992	0.75
26	MP2B	Z	-3.451	0.75
27	MP2B	Mx	0.002	0.75
28	MP2B	X	1.992	5.75
29	MP2B	Z	-3.451	5.75
30	MP2B	Mx	0.002	5.75
31	MP2C	X	2.495	0.75
32	MP2C	Z	-4.321	0.75
33	MP2C	Mx	-0.004	0.75
34	MP2C	X	2.495	5.75
35	MP2C	Z	-4.321	5.75
36	MP2C	Mx	-0.004	5.75
37	MP4A	X	1.49	2.25
38	MP4A	Z	-2.581	2.25
39	MP4A	Mx	-0.000745	2.25
40	MP4A	X	1.49	4.25
41	MP4A	Z	-2.581	4.25
42	MP4A	Mx	-0.000745	4.25
43	MP4B	X	0.625	2.25
44	MP4B	Z	-1.082	2.25
45	MP4B	Mx	0.000625	2.25
46	MP4B	X	0.625	4.25
47	MP4B	Z	-1.082	4.25
48	MP4B	Mx	0.000625	4.25
49	MP4C	X	1.49	2.25
50	MP4C	Z	-2.581	2.25
51	MP4C	Mx	-0.000745	2.25
52	MP4C	X	1.49	4.25
53	MP4C	Z	-2.581	4.25
54	MP4C	Mx	-0.000745	4.25
55	MP2A	X	1.601	0.5
56	MP2A	Z	-2.773	0.5
57	MP2A	Mx	0.0008	0.5
58	MP2B	X	1.171	0.5
59	MP2B	Z	-2.028	0.5
60	MP2B	Mx	-0.001	0.5
61	MP2C	X	1.601	0.5
62	MP2C	Z	-2.773	0.5
63	MP2C	Mx	0.0008	0.5
64	MP1A	X	1.938	0.5
65	MP1A	Z	-3.356	0.5
66	MP1A	Mx	0.000969	0.5
67	MP1B	X	1.435	0.5
68	MP1B	Z	-2.486	0.5
69	MP1B	Mx	-0.001	0.5
70	MP1C	X	1.938	0.5
71	MP1C	Z	-3.356	0.5
72	MP1C	Mx	0.000969	0.5
73	M23	X	2.927	1
74	M23	Z	-5.069	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
75	M23	Mx	0	1
76	MP1A	X	1.861	2
77	MP1A	Z	-3.224	2
78	MP1A	Mx	-0.00093	2
79	MP1A	X	1.861	4.5
80	MP1A	Z	-3.224	4.5
81	MP1A	Mx	-0.00093	4.5
82	MP1B	X	3.039	2
83	MP1B	Z	-5.263	2
84	MP1B	Mx	0.003	2
85	MP1B	X	3.039	4.5
86	MP1B	Z	-5.263	4.5
87	MP1B	Mx	0.003	4.5
88	MP1C	X	1.861	2
89	MP1C	Z	-3.224	2
90	MP1C	Mx	-0.000931	2
91	MP1C	X	1.861	4.5
92	MP1C	Z	-3.224	4.5
93	MP1C	Mx	-0.000931	4.5
94	MP5A	X	1.861	2
95	MP5A	Z	-3.224	2
96	MP5A	Mx	-0.00093	2
97	MP5A	X	1.861	4.5
98	MP5A	Z	-3.224	4.5
99	MP5A	Mx	-0.00093	4.5
100	MP5B	X	3.039	2
101	MP5B	Z	-5.263	2
102	MP5B	Mx	0.003	2
103	MP5B	X	3.039	4.5
104	MP5B	Z	-5.263	4.5
105	MP5B	Mx	0.003	4.5
106	MP5C	X	1.861	2
107	MP5C	Z	-3.224	2
108	MP5C	Mx	-0.000931	2
109	MP5C	X	1.861	4.5
110	MP5C	Z	-3.224	4.5
111	MP5C	Mx	-0.000931	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	3.741	0.75
2	MP2A	Z	-2.16	0.75
3	MP2A	Mx	-0.003	0.75
4	MP2A	X	3.741	5.75
5	MP2A	Z	-2.16	5.75
6	MP2A	Mx	-0.003	5.75
7	MP2B	X	3.741	0.75
8	MP2B	Z	-2.16	0.75
9	MP2B	Mx	0.000305	0.75
10	MP2B	X	3.741	5.75
11	MP2B	Z	-2.16	5.75
12	MP2B	Mx	0.000305	5.75
13	MP2C	X	4.611	0.75
14	MP2C	Z	-2.662	0.75
15	MP2C	Mx	0.004	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
16	MP2C	X	4.611	5.75
17	MP2C	Z	-2.662	5.75
18	MP2C	Mx	0.004	5.75
19	MP2A	X	3.741	0.75
20	MP2A	Z	-2.16	0.75
21	MP2A	Mx	-0.000305	0.75
22	MP2A	X	3.741	5.75
23	MP2A	Z	-2.16	5.75
24	MP2A	Mx	-0.000305	5.75
25	MP2B	X	3.741	0.75
26	MP2B	Z	-2.16	0.75
27	MP2B	Mx	0.003	0.75
28	MP2B	X	3.741	5.75
29	MP2B	Z	-2.16	5.75
30	MP2B	Mx	0.003	5.75
31	MP2C	X	4.611	0.75
32	MP2C	Z	-2.662	0.75
33	MP2C	Mx	-0.004	0.75
34	MP2C	X	4.611	5.75
35	MP2C	Z	-2.662	5.75
36	MP2C	Mx	-0.004	5.75
37	MP4A	X	1.582	2.25
38	MP4A	Z	-0.913	2.25
39	MP4A	Mx	-0.000791	2.25
40	MP4A	X	1.582	4.25
41	MP4A	Z	-0.913	4.25
42	MP4A	Mx	-0.000791	4.25
43	MP4B	X	1.582	2.25
44	MP4B	Z	-0.913	2.25
45	MP4B	Mx	0.000791	2.25
46	MP4B	X	1.582	4.25
47	MP4B	Z	-0.913	4.25
48	MP4B	Mx	0.000791	4.25
49	MP4C	X	3.081	2.25
50	MP4C	Z	-1.779	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	3.081	4.25
53	MP4C	Z	-1.779	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	2.276	0.5
56	MP2A	Z	-1.314	0.5
57	MP2A	Mx	0.001	0.5
58	MP2B	X	2.276	0.5
59	MP2B	Z	-1.314	0.5
60	MP2B	Mx	-0.001	0.5
61	MP2C	X	3.022	0.5
62	MP2C	Z	-1.745	0.5
63	MP2C	Mx	0	0.5
64	MP1A	X	2.776	0.5
65	MP1A	Z	-1.603	0.5
66	MP1A	Mx	0.001	0.5
67	MP1B	X	2.776	0.5
68	MP1B	Z	-1.603	0.5
69	MP1B	Mx	-0.001	0.5
70	MP1C	X	3.646	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
71	MP1C	Z	-2.105	0.5
72	MP1C	Mx	0	0.5
73	M23	X	4.699	1
74	M23	Z	-2.713	1
75	M23	Mx	0	1
76	MP1A	X	4.583	2
77	MP1A	Z	-2.646	2
78	MP1A	Mx	-0.002	2
79	MP1A	X	4.583	4.5
80	MP1A	Z	-2.646	4.5
81	MP1A	Mx	-0.002	4.5
82	MP1B	X	4.583	2
83	MP1B	Z	-2.646	2
84	MP1B	Mx	0.002	2
85	MP1B	X	4.583	4.5
86	MP1B	Z	-2.646	4.5
87	MP1B	Mx	0.002	4.5
88	MP1C	X	2.544	2
89	MP1C	Z	-1.469	2
90	MP1C	Mx	0	2
91	MP1C	X	2.544	4.5
92	MP1C	Z	-1.469	4.5
93	MP1C	Mx	0	4.5
94	MP5A	X	4.583	2
95	MP5A	Z	-2.646	2
96	MP5A	Mx	-0.002	2
97	MP5A	X	4.583	4.5
98	MP5A	Z	-2.646	4.5
99	MP5A	Mx	-0.002	4.5
100	MP5B	X	4.583	2
101	MP5B	Z	-2.646	2
102	MP5B	Mx	0.002	2
103	MP5B	X	4.583	4.5
104	MP5B	Z	-2.646	4.5
105	MP5B	Mx	0.002	4.5
106	MP5C	X	2.544	2
107	MP5C	Z	-1.469	2
108	MP5C	Mx	0	2
109	MP5C	X	2.544	4.5
110	MP5C	Z	-1.469	4.5
111	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	3.985	0.75
2	MP2A	Z	0	0.75
3	MP2A	Mx	-0.002	0.75
4	MP2A	X	3.985	5.75
5	MP2A	Z	0	5.75
6	MP2A	Mx	-0.002	5.75
7	MP2B	X	4.989	0.75
8	MP2B	Z	0	0.75
9	MP2B	Mx	-0.002	0.75
10	MP2B	X	4.989	5.75
11	MP2B	Z	0	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
12	MP2B	Mx	-0.002	5.75
13	MP2C	X	4.989	0.75
14	MP2C	Z	0	0.75
15	MP2C	Mx	0.004	0.75
16	MP2C	X	4.989	5.75
17	MP2C	Z	0	5.75
18	MP2C	Mx	0.004	5.75
19	MP2A	X	3.985	0.75
20	MP2A	Z	0	0.75
21	MP2A	Mx	-0.002	0.75
22	MP2A	X	3.985	5.75
23	MP2A	Z	0	5.75
24	MP2A	Mx	-0.002	5.75
25	MP2B	X	4.989	0.75
26	MP2B	Z	0	0.75
27	MP2B	Mx	0.004	0.75
28	MP2B	X	4.989	5.75
29	MP2B	Z	0	5.75
30	MP2B	Mx	0.004	5.75
31	MP2C	X	4.989	0.75
32	MP2C	Z	0	0.75
33	MP2C	Mx	-0.002	0.75
34	MP2C	X	4.989	5.75
35	MP2C	Z	0	5.75
36	MP2C	Mx	-0.002	5.75
37	MP4A	X	1.249	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	-0.000624	2.25
40	MP4A	X	1.249	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	-0.000624	4.25
43	MP4B	X	2.98	2.25
44	MP4B	Z	0	2.25
45	MP4B	Mx	0.000745	2.25
46	MP4B	X	2.98	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	0.000745	4.25
49	MP4C	X	2.98	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	0.000745	2.25
52	MP4C	X	2.98	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	0.000745	4.25
55	MP2A	X	2.341	0.5
56	MP2A	Z	0	0.5
57	MP2A	Mx	0.001	0.5
58	MP2B	X	3.202	0.5
59	MP2B	Z	0	0.5
60	MP2B	Mx	-0.0008	0.5
61	MP2C	X	3.202	0.5
62	MP2C	Z	0	0.5
63	MP2C	Mx	-0.0008	0.5
64	MP1A	X	2.87	0.5
65	MP1A	Z	0	0.5
66	MP1A	Mx	0.001	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
67	MP1B	X	3.875	0.5
68	MP1B	Z	0	0.5
69	MP1B	Mx	-0.000969	0.5
70	MP1C	X	3.875	0.5
71	MP1C	Z	0	0.5
72	MP1C	Mx	-0.000969	0.5
73	M23	X	5.853	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	MP1A	X	6.077	2
77	MP1A	Z	0	2
78	MP1A	Mx	-0.003	2
79	MP1A	X	6.077	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	-0.003	4.5
82	MP1B	X	3.723	2
83	MP1B	Z	0	2
84	MP1B	Mx	0.000931	2
85	MP1B	X	3.723	4.5
86	MP1B	Z	0	4.5
87	MP1B	Mx	0.000931	4.5
88	MP1C	X	3.723	2
89	MP1C	Z	0	2
90	MP1C	Mx	0.000931	2
91	MP1C	X	3.723	4.5
92	MP1C	Z	0	4.5
93	MP1C	Mx	0.000931	4.5
94	MP5A	X	6.077	2
95	MP5A	Z	0	2
96	MP5A	Mx	-0.003	2
97	MP5A	X	6.077	4.5
98	MP5A	Z	0	4.5
99	MP5A	Mx	-0.003	4.5
100	MP5B	X	3.723	2
101	MP5B	Z	0	2
102	MP5B	Mx	0.000931	2
103	MP5B	X	3.723	4.5
104	MP5B	Z	0	4.5
105	MP5B	Mx	0.000931	4.5
106	MP5C	X	3.723	2
107	MP5C	Z	0	2
108	MP5C	Mx	0.000931	2
109	MP5C	X	3.723	4.5
110	MP5C	Z	0	4.5
111	MP5C	Mx	0.000931	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	3.741	0.75
2	MP2A	Z	2.16	0.75
3	MP2A	Mx	-0.000305	0.75
4	MP2A	X	3.741	5.75
5	MP2A	Z	2.16	5.75
6	MP2A	Mx	-0.000305	5.75
7	MP2B	X	4.611	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
8	MP2B	Z	2.662	0.75
9	MP2B	Mx	-0.004	0.75
10	MP2B	X	4.611	5.75
11	MP2B	Z	2.662	5.75
12	MP2B	Mx	-0.004	5.75
13	MP2C	X	3.741	0.75
14	MP2C	Z	2.16	0.75
15	MP2C	Mx	0.003	0.75
16	MP2C	X	3.741	5.75
17	MP2C	Z	2.16	5.75
18	MP2C	Mx	0.003	5.75
19	MP2A	X	3.741	0.75
20	MP2A	Z	2.16	0.75
21	MP2A	Mx	-0.003	0.75
22	MP2A	X	3.741	5.75
23	MP2A	Z	2.16	5.75
24	MP2A	Mx	-0.003	5.75
25	MP2B	X	4.611	0.75
26	MP2B	Z	2.662	0.75
27	MP2B	Mx	0.004	0.75
28	MP2B	X	4.611	5.75
29	MP2B	Z	2.662	5.75
30	MP2B	Mx	0.004	5.75
31	MP2C	X	3.741	0.75
32	MP2C	Z	2.16	0.75
33	MP2C	Mx	0.000305	0.75
34	MP2C	X	3.741	5.75
35	MP2C	Z	2.16	5.75
36	MP2C	Mx	0.000305	5.75
37	MP4A	X	1.582	2.25
38	MP4A	Z	0.913	2.25
39	MP4A	Mx	-0.000791	2.25
40	MP4A	X	1.582	4.25
41	MP4A	Z	0.913	4.25
42	MP4A	Mx	-0.000791	4.25
43	MP4B	X	3.081	2.25
44	MP4B	Z	1.779	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	3.081	4.25
47	MP4B	Z	1.779	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	1.582	2.25
50	MP4C	Z	0.913	2.25
51	MP4C	Mx	0.000791	2.25
52	MP4C	X	1.582	4.25
53	MP4C	Z	0.913	4.25
54	MP4C	Mx	0.000791	4.25
55	MP2A	X	2.276	0.5
56	MP2A	Z	1.314	0.5
57	MP2A	Mx	0.001	0.5
58	MP2B	X	3.022	0.5
59	MP2B	Z	1.745	0.5
60	MP2B	Mx	0	0.5
61	MP2C	X	2.276	0.5
62	MP2C	Z	1.314	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
63	MP2C	Mx	-0.001	0.5
64	MP1A	X	2.776	0.5
65	MP1A	Z	1.603	0.5
66	MP1A	Mx	0.001	0.5
67	MP1B	X	3.646	0.5
68	MP1B	Z	2.105	0.5
69	MP1B	Mx	0	0.5
70	MP1C	X	2.776	0.5
71	MP1C	Z	1.603	0.5
72	MP1C	Mx	-0.001	0.5
73	M23	X	5.81	1
74	M23	Z	3.354	1
75	M23	Mx	0	1
76	MP1A	X	4.583	2
77	MP1A	Z	2.646	2
78	MP1A	Mx	-0.002	2
79	MP1A	X	4.583	4.5
80	MP1A	Z	2.646	4.5
81	MP1A	Mx	-0.002	4.5
82	MP1B	X	2.544	2
83	MP1B	Z	1.469	2
84	MP1B	Mx	0	2
85	MP1B	X	2.544	4.5
86	MP1B	Z	1.469	4.5
87	MP1B	Mx	0	4.5
88	MP1C	X	4.583	2
89	MP1C	Z	2.646	2
90	MP1C	Mx	0.002	2
91	MP1C	X	4.583	4.5
92	MP1C	Z	2.646	4.5
93	MP1C	Mx	0.002	4.5
94	MP5A	X	4.583	2
95	MP5A	Z	2.646	2
96	MP5A	Mx	-0.002	2
97	MP5A	X	4.583	4.5
98	MP5A	Z	2.646	4.5
99	MP5A	Mx	-0.002	4.5
100	MP5B	X	2.544	2
101	MP5B	Z	1.469	2
102	MP5B	Mx	0	2
103	MP5B	X	2.544	4.5
104	MP5B	Z	1.469	4.5
105	MP5B	Mx	0	4.5
106	MP5C	X	4.583	2
107	MP5C	Z	2.646	2
108	MP5C	Mx	0.002	2
109	MP5C	X	4.583	4.5
110	MP5C	Z	2.646	4.5
111	MP5C	Mx	0.002	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	2.495	0.75
2	MP2A	Z	4.321	0.75
3	MP2A	Mx	0.002	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
4	MP2A	X	2.495	5.75
5	MP2A	Z	4.321	5.75
6	MP2A	Mx	0.002	5.75
7	MP2B	X	2.495	0.75
8	MP2B	Z	4.321	0.75
9	MP2B	Mx	-0.004	0.75
10	MP2B	X	2.495	5.75
11	MP2B	Z	4.321	5.75
12	MP2B	Mx	-0.004	5.75
13	MP2C	X	1.992	0.75
14	MP2C	Z	3.451	0.75
15	MP2C	Mx	0.002	0.75
16	MP2C	X	1.992	5.75
17	MP2C	Z	3.451	5.75
18	MP2C	Mx	0.002	5.75
19	MP2A	X	2.495	0.75
20	MP2A	Z	4.321	0.75
21	MP2A	Mx	-0.004	0.75
22	MP2A	X	2.495	5.75
23	MP2A	Z	4.321	5.75
24	MP2A	Mx	-0.004	5.75
25	MP2B	X	2.495	0.75
26	MP2B	Z	4.321	0.75
27	MP2B	Mx	0.002	0.75
28	MP2B	X	2.495	5.75
29	MP2B	Z	4.321	5.75
30	MP2B	Mx	0.002	5.75
31	MP2C	X	1.992	0.75
32	MP2C	Z	3.451	0.75
33	MP2C	Mx	0.002	0.75
34	MP2C	X	1.992	5.75
35	MP2C	Z	3.451	5.75
36	MP2C	Mx	0.002	5.75
37	MP4A	X	1.49	2.25
38	MP4A	Z	2.581	2.25
39	MP4A	Mx	-0.000745	2.25
40	MP4A	X	1.49	4.25
41	MP4A	Z	2.581	4.25
42	MP4A	Mx	-0.000745	4.25
43	MP4B	X	1.49	2.25
44	MP4B	Z	2.581	2.25
45	MP4B	Mx	-0.000745	2.25
46	MP4B	X	1.49	4.25
47	MP4B	Z	2.581	4.25
48	MP4B	Mx	-0.000745	4.25
49	MP4C	X	0.625	2.25
50	MP4C	Z	1.082	2.25
51	MP4C	Mx	0.000625	2.25
52	MP4C	X	0.625	4.25
53	MP4C	Z	1.082	4.25
54	MP4C	Mx	0.000625	4.25
55	MP2A	X	1.601	0.5
56	MP2A	Z	2.773	0.5
57	MP2A	Mx	0.0008	0.5
58	MP2B	X	1.601	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
59	MP2B	Z	2.773	0.5
60	MP2B	Mx	0.0008	0.5
61	MP2C	X	1.171	0.5
62	MP2C	Z	2.028	0.5
63	MP2C	Mx	-0.001	0.5
64	MP1A	X	1.938	0.5
65	MP1A	Z	3.356	0.5
66	MP1A	Mx	0.000969	0.5
67	MP1B	X	1.938	0.5
68	MP1B	Z	3.356	0.5
69	MP1B	Mx	0.000969	0.5
70	MP1C	X	1.435	0.5
71	MP1C	Z	2.486	0.5
72	MP1C	Mx	-0.001	0.5
73	M23	X	3.568	1
74	M23	Z	6.181	1
75	M23	Mx	0	1
76	MP1A	X	1.861	2
77	MP1A	Z	3.224	2
78	MP1A	Mx	-0.00093	2
79	MP1A	X	1.861	4.5
80	MP1A	Z	3.224	4.5
81	MP1A	Mx	-0.00093	4.5
82	MP1B	X	1.861	2
83	MP1B	Z	3.224	2
84	MP1B	Mx	-0.000931	2
85	MP1B	X	1.861	4.5
86	MP1B	Z	3.224	4.5
87	MP1B	Mx	-0.000931	4.5
88	MP1C	X	3.039	2
89	MP1C	Z	5.263	2
90	MP1C	Mx	0.003	2
91	MP1C	X	3.039	4.5
92	MP1C	Z	5.263	4.5
93	MP1C	Mx	0.003	4.5
94	MP5A	X	1.861	2
95	MP5A	Z	3.224	2
96	MP5A	Mx	-0.00093	2
97	MP5A	X	1.861	4.5
98	MP5A	Z	3.224	4.5
99	MP5A	Mx	-0.00093	4.5
100	MP5B	X	1.861	2
101	MP5B	Z	3.224	2
102	MP5B	Mx	-0.000931	2
103	MP5B	X	1.861	4.5
104	MP5B	Z	3.224	4.5
105	MP5B	Mx	-0.000931	4.5
106	MP5C	X	3.039	2
107	MP5C	Z	5.263	2
108	MP5C	Mx	0.003	2
109	MP5C	X	3.039	4.5
110	MP5C	Z	5.263	4.5
111	MP5C	Mx	0.003	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	0.75
2	MP2A	Z	5.324	0.75
3	MP2A	Mx	0.004	0.75
4	MP2A	X	0	5.75
5	MP2A	Z	5.324	5.75
6	MP2A	Mx	0.004	5.75
7	MP2B	X	0	0.75
8	MP2B	Z	4.32	0.75
9	MP2B	Mx	-0.003	0.75
10	MP2B	X	0	5.75
11	MP2B	Z	4.32	5.75
12	MP2B	Mx	-0.003	5.75
13	MP2C	X	0	0.75
14	MP2C	Z	4.32	0.75
15	MP2C	Mx	0.000305	0.75
16	MP2C	X	0	5.75
17	MP2C	Z	4.32	5.75
18	MP2C	Mx	0.000305	5.75
19	MP2A	X	0	0.75
20	MP2A	Z	5.324	0.75
21	MP2A	Mx	-0.004	0.75
22	MP2A	X	0	5.75
23	MP2A	Z	5.324	5.75
24	MP2A	Mx	-0.004	5.75
25	MP2B	X	0	0.75
26	MP2B	Z	4.32	0.75
27	MP2B	Mx	-0.000305	0.75
28	MP2B	X	0	5.75
29	MP2B	Z	4.32	5.75
30	MP2B	Mx	-0.000305	5.75
31	MP2C	X	0	0.75
32	MP2C	Z	4.32	0.75
33	MP2C	Mx	0.003	0.75
34	MP2C	X	0	5.75
35	MP2C	Z	4.32	5.75
36	MP2C	Mx	0.003	5.75
37	MP4A	X	0	2.25
38	MP4A	Z	3.557	2.25
39	MP4A	Mx	0	2.25
40	MP4A	X	0	4.25
41	MP4A	Z	3.557	4.25
42	MP4A	Mx	0	4.25
43	MP4B	X	0	2.25
44	MP4B	Z	1.826	2.25
45	MP4B	Mx	-0.000791	2.25
46	MP4B	X	0	4.25
47	MP4B	Z	1.826	4.25
48	MP4B	Mx	-0.000791	4.25
49	MP4C	X	0	2.25
50	MP4C	Z	1.826	2.25
51	MP4C	Mx	0.000791	2.25
52	MP4C	X	0	4.25
53	MP4C	Z	1.826	4.25
54	MP4C	Mx	0.000791	4.25
55	MP2A	X	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP2A	Z	3.49	0.5
57	MP2A	Mx	0	0.5
58	MP2B	X	0	0.5
59	MP2B	Z	2.628	0.5
60	MP2B	Mx	0.001	0.5
61	MP2C	X	0	0.5
62	MP2C	Z	2.628	0.5
63	MP2C	Mx	-0.001	0.5
64	MP1A	X	0	0.5
65	MP1A	Z	4.21	0.5
66	MP1A	Mx	0	0.5
67	MP1B	X	0	0.5
68	MP1B	Z	3.205	0.5
69	MP1B	Mx	0.001	0.5
70	MP1C	X	0	0.5
71	MP1C	Z	3.205	0.5
72	MP1C	Mx	-0.001	0.5
73	M23	X	0	1
74	M23	Z	6.709	1
75	M23	Mx	0	1
76	MP1A	X	0	2
77	MP1A	Z	2.938	2
78	MP1A	Mx	0	2
79	MP1A	X	0	4.5
80	MP1A	Z	2.938	4.5
81	MP1A	Mx	0	4.5
82	MP1B	X	0	2
83	MP1B	Z	5.292	2
84	MP1B	Mx	-0.002	2
85	MP1B	X	0	4.5
86	MP1B	Z	5.292	4.5
87	MP1B	Mx	-0.002	4.5
88	MP1C	X	0	2
89	MP1C	Z	5.292	2
90	MP1C	Mx	0.002	2
91	MP1C	X	0	4.5
92	MP1C	Z	5.292	4.5
93	MP1C	Mx	0.002	4.5
94	MP5A	X	0	2
95	MP5A	Z	2.938	2
96	MP5A	Mx	0	2
97	MP5A	X	0	4.5
98	MP5A	Z	2.938	4.5
99	MP5A	Mx	0	4.5
100	MP5B	X	0	2
101	MP5B	Z	5.292	2
102	MP5B	Mx	-0.002	2
103	MP5B	X	0	4.5
104	MP5B	Z	5.292	4.5
105	MP5B	Mx	-0.002	4.5
106	MP5C	X	0	2
107	MP5C	Z	5.292	2
108	MP5C	Mx	0.002	2
109	MP5C	X	0	4.5
110	MP5C	Z	5.292	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP5C	Mx	0.002	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-2.495	0.75
2	MP2A	Z	4.321	0.75
3	MP2A	Mx	0.004	0.75
4	MP2A	X	-2.495	5.75
5	MP2A	Z	4.321	5.75
6	MP2A	Mx	0.004	5.75
7	MP2B	X	-1.992	0.75
8	MP2B	Z	3.451	0.75
9	MP2B	Mx	-0.002	0.75
10	MP2B	X	-1.992	5.75
11	MP2B	Z	3.451	5.75
12	MP2B	Mx	-0.002	5.75
13	MP2C	X	-2.495	0.75
14	MP2C	Z	4.321	0.75
15	MP2C	Mx	-0.002	0.75
16	MP2C	X	-2.495	5.75
17	MP2C	Z	4.321	5.75
18	MP2C	Mx	-0.002	5.75
19	MP2A	X	-2.495	0.75
20	MP2A	Z	4.321	0.75
21	MP2A	Mx	-0.002	0.75
22	MP2A	X	-2.495	5.75
23	MP2A	Z	4.321	5.75
24	MP2A	Mx	-0.002	5.75
25	MP2B	X	-1.992	0.75
26	MP2B	Z	3.451	0.75
27	MP2B	Mx	-0.002	0.75
28	MP2B	X	-1.992	5.75
29	MP2B	Z	3.451	5.75
30	MP2B	Mx	-0.002	5.75
31	MP2C	X	-2.495	0.75
32	MP2C	Z	4.321	0.75
33	MP2C	Mx	0.004	0.75
34	MP2C	X	-2.495	5.75
35	MP2C	Z	4.321	5.75
36	MP2C	Mx	0.004	5.75
37	MP4A	X	-1.49	2.25
38	MP4A	Z	2.581	2.25
39	MP4A	Mx	0.000745	2.25
40	MP4A	X	-1.49	4.25
41	MP4A	Z	2.581	4.25
42	MP4A	Mx	0.000745	4.25
43	MP4B	X	-0.625	2.25
44	MP4B	Z	1.082	2.25
45	MP4B	Mx	-0.000625	2.25
46	MP4B	X	-0.625	4.25
47	MP4B	Z	1.082	4.25
48	MP4B	Mx	-0.000625	4.25
49	MP4C	X	-1.49	2.25
50	MP4C	Z	2.581	2.25
51	MP4C	Mx	0.000745	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
52	MP4C	X	-1.49	4.25
53	MP4C	Z	2.581	4.25
54	MP4C	Mx	0.000745	4.25
55	MP2A	X	-1.601	0.5
56	MP2A	Z	2.773	0.5
57	MP2A	Mx	-0.0008	0.5
58	MP2B	X	-1.171	0.5
59	MP2B	Z	2.028	0.5
60	MP2B	Mx	0.001	0.5
61	MP2C	X	-1.601	0.5
62	MP2C	Z	2.773	0.5
63	MP2C	Mx	-0.0008	0.5
64	MP1A	X	-1.938	0.5
65	MP1A	Z	3.356	0.5
66	MP1A	Mx	-0.000969	0.5
67	MP1B	X	-1.435	0.5
68	MP1B	Z	2.486	0.5
69	MP1B	Mx	0.001	0.5
70	MP1C	X	-1.938	0.5
71	MP1C	Z	3.356	0.5
72	MP1C	Mx	-0.000969	0.5
73	M23	X	-2.927	1
74	M23	Z	5.069	1
75	M23	Mx	0	1
76	MP1A	X	-1.861	2
77	MP1A	Z	3.224	2
78	MP1A	Mx	0.00093	2
79	MP1A	X	-1.861	4.5
80	MP1A	Z	3.224	4.5
81	MP1A	Mx	0.00093	4.5
82	MP1B	X	-3.039	2
83	MP1B	Z	5.263	2
84	MP1B	Mx	-0.003	2
85	MP1B	X	-3.039	4.5
86	MP1B	Z	5.263	4.5
87	MP1B	Mx	-0.003	4.5
88	MP1C	X	-1.861	2
89	MP1C	Z	3.224	2
90	MP1C	Mx	0.000931	2
91	MP1C	X	-1.861	4.5
92	MP1C	Z	3.224	4.5
93	MP1C	Mx	0.000931	4.5
94	MP5A	X	-1.861	2
95	MP5A	Z	3.224	2
96	MP5A	Mx	0.00093	2
97	MP5A	X	-1.861	4.5
98	MP5A	Z	3.224	4.5
99	MP5A	Mx	0.00093	4.5
100	MP5B	X	-3.039	2
101	MP5B	Z	5.263	2
102	MP5B	Mx	-0.003	2
103	MP5B	X	-3.039	4.5
104	MP5B	Z	5.263	4.5
105	MP5B	Mx	-0.003	4.5
106	MP5C	X	-1.861	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
107	MP5C	Z	3.224	2
108	MP5C	Mx	0.000931	2
109	MP5C	X	-1.861	4.5
110	MP5C	Z	3.224	4.5
111	MP5C	Mx	0.000931	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-3.741	0.75
2	MP2A	Z	2.16	0.75
3	MP2A	Mx	0.003	0.75
4	MP2A	X	-3.741	5.75
5	MP2A	Z	2.16	5.75
6	MP2A	Mx	0.003	5.75
7	MP2B	X	-3.741	0.75
8	MP2B	Z	2.16	0.75
9	MP2B	Mx	-0.000305	0.75
10	MP2B	X	-3.741	5.75
11	MP2B	Z	2.16	5.75
12	MP2B	Mx	-0.000305	5.75
13	MP2C	X	-4.611	0.75
14	MP2C	Z	2.662	0.75
15	MP2C	Mx	-0.004	0.75
16	MP2C	X	-4.611	5.75
17	MP2C	Z	2.662	5.75
18	MP2C	Mx	-0.004	5.75
19	MP2A	X	-3.741	0.75
20	MP2A	Z	2.16	0.75
21	MP2A	Mx	0.000305	0.75
22	MP2A	X	-3.741	5.75
23	MP2A	Z	2.16	5.75
24	MP2A	Mx	0.000305	5.75
25	MP2B	X	-3.741	0.75
26	MP2B	Z	2.16	0.75
27	MP2B	Mx	-0.003	0.75
28	MP2B	X	-3.741	5.75
29	MP2B	Z	2.16	5.75
30	MP2B	Mx	-0.003	5.75
31	MP2C	X	-4.611	0.75
32	MP2C	Z	2.662	0.75
33	MP2C	Mx	0.004	0.75
34	MP2C	X	-4.611	5.75
35	MP2C	Z	2.662	5.75
36	MP2C	Mx	0.004	5.75
37	MP4A	X	-1.582	2.25
38	MP4A	Z	0.913	2.25
39	MP4A	Mx	0.000791	2.25
40	MP4A	X	-1.582	4.25
41	MP4A	Z	0.913	4.25
42	MP4A	Mx	0.000791	4.25
43	MP4B	X	-1.582	2.25
44	MP4B	Z	0.913	2.25
45	MP4B	Mx	-0.000791	2.25
46	MP4B	X	-1.582	4.25
47	MP4B	Z	0.913	4.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
48	MP4B	Mx	-0.000791	4.25
49	MP4C	X	-3.081	2.25
50	MP4C	Z	1.779	2.25
51	MP4C	Mx	0	2.25
52	MP4C	X	-3.081	4.25
53	MP4C	Z	1.779	4.25
54	MP4C	Mx	0	4.25
55	MP2A	X	-2.276	0.5
56	MP2A	Z	1.314	0.5
57	MP2A	Mx	-0.001	0.5
58	MP2B	X	-2.276	0.5
59	MP2B	Z	1.314	0.5
60	MP2B	Mx	0.001	0.5
61	MP2C	X	-3.022	0.5
62	MP2C	Z	1.745	0.5
63	MP2C	Mx	0	0.5
64	MP1A	X	-2.776	0.5
65	MP1A	Z	1.603	0.5
66	MP1A	Mx	-0.001	0.5
67	MP1B	X	-2.776	0.5
68	MP1B	Z	1.603	0.5
69	MP1B	Mx	0.001	0.5
70	MP1C	X	-3.646	0.5
71	MP1C	Z	2.105	0.5
72	MP1C	Mx	0	0.5
73	M23	X	-4.699	1
74	M23	Z	2.713	1
75	M23	Mx	0	1
76	MP1A	X	-4.583	2
77	MP1A	Z	2.646	2
78	MP1A	Mx	0.002	2
79	MP1A	X	-4.583	4.5
80	MP1A	Z	2.646	4.5
81	MP1A	Mx	0.002	4.5
82	MP1B	X	-4.583	2
83	MP1B	Z	2.646	2
84	MP1B	Mx	-0.002	2
85	MP1B	X	-4.583	4.5
86	MP1B	Z	2.646	4.5
87	MP1B	Mx	-0.002	4.5
88	MP1C	X	-2.544	2
89	MP1C	Z	1.469	2
90	MP1C	Mx	0	2
91	MP1C	X	-2.544	4.5
92	MP1C	Z	1.469	4.5
93	MP1C	Mx	0	4.5
94	MP5A	X	-4.583	2
95	MP5A	Z	2.646	2
96	MP5A	Mx	0.002	2
97	MP5A	X	-4.583	4.5
98	MP5A	Z	2.646	4.5
99	MP5A	Mx	0.002	4.5
100	MP5B	X	-4.583	2
101	MP5B	Z	2.646	2
102	MP5B	Mx	-0.002	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
103	MP5B	X	-4.583	4.5
104	MP5B	Z	2.646	4.5
105	MP5B	Mx	-0.002	4.5
106	MP5C	X	-2.544	2
107	MP5C	Z	1.469	2
108	MP5C	Mx	0	2
109	MP5C	X	-2.544	4.5
110	MP5C	Z	1.469	4.5
111	MP5C	Mx	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-3.985	0.75
2	MP2A	Z	0	0.75
3	MP2A	Mx	0.002	0.75
4	MP2A	X	-3.985	5.75
5	MP2A	Z	0	5.75
6	MP2A	Mx	0.002	5.75
7	MP2B	X	-4.989	0.75
8	MP2B	Z	0	0.75
9	MP2B	Mx	0.002	0.75
10	MP2B	X	-4.989	5.75
11	MP2B	Z	0	5.75
12	MP2B	Mx	0.002	5.75
13	MP2C	X	-4.989	0.75
14	MP2C	Z	0	0.75
15	MP2C	Mx	-0.004	0.75
16	MP2C	X	-4.989	5.75
17	MP2C	Z	0	5.75
18	MP2C	Mx	-0.004	5.75
19	MP2A	X	-3.985	0.75
20	MP2A	Z	0	0.75
21	MP2A	Mx	0.002	0.75
22	MP2A	X	-3.985	5.75
23	MP2A	Z	0	5.75
24	MP2A	Mx	0.002	5.75
25	MP2B	X	-4.989	0.75
26	MP2B	Z	0	0.75
27	MP2B	Mx	-0.004	0.75
28	MP2B	X	-4.989	5.75
29	MP2B	Z	0	5.75
30	MP2B	Mx	-0.004	5.75
31	MP2C	X	-4.989	0.75
32	MP2C	Z	0	0.75
33	MP2C	Mx	0.002	0.75
34	MP2C	X	-4.989	5.75
35	MP2C	Z	0	5.75
36	MP2C	Mx	0.002	5.75
37	MP4A	X	-1.249	2.25
38	MP4A	Z	0	2.25
39	MP4A	Mx	0.000624	2.25
40	MP4A	X	-1.249	4.25
41	MP4A	Z	0	4.25
42	MP4A	Mx	0.000624	4.25
43	MP4B	X	-2.98	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
44	MP4B	Z	0	2.25
45	MP4B	Mx	-0.000745	2.25
46	MP4B	X	-2.98	4.25
47	MP4B	Z	0	4.25
48	MP4B	Mx	-0.000745	4.25
49	MP4C	X	-2.98	2.25
50	MP4C	Z	0	2.25
51	MP4C	Mx	-0.000745	2.25
52	MP4C	X	-2.98	4.25
53	MP4C	Z	0	4.25
54	MP4C	Mx	-0.000745	4.25
55	MP2A	X	-2.341	0.5
56	MP2A	Z	0	0.5
57	MP2A	Mx	-0.001	0.5
58	MP2B	X	-3.202	0.5
59	MP2B	Z	0	0.5
60	MP2B	Mx	0.0008	0.5
61	MP2C	X	-3.202	0.5
62	MP2C	Z	0	0.5
63	MP2C	Mx	0.0008	0.5
64	MP1A	X	-2.87	0.5
65	MP1A	Z	0	0.5
66	MP1A	Mx	-0.001	0.5
67	MP1B	X	-3.875	0.5
68	MP1B	Z	0	0.5
69	MP1B	Mx	0.000969	0.5
70	MP1C	X	-3.875	0.5
71	MP1C	Z	0	0.5
72	MP1C	Mx	0.000969	0.5
73	M23	X	-5.853	1
74	M23	Z	0	1
75	M23	Mx	0	1
76	MP1A	X	-6.077	2
77	MP1A	Z	0	2
78	MP1A	Mx	0.003	2
79	MP1A	X	-6.077	4.5
80	MP1A	Z	0	4.5
81	MP1A	Mx	0.003	4.5
82	MP1B	X	-3.723	2
83	MP1B	Z	0	2
84	MP1B	Mx	-0.000931	2
85	MP1B	X	-3.723	4.5
86	MP1B	Z	0	4.5
87	MP1B	Mx	-0.000931	4.5
88	MP1C	X	-3.723	2
89	MP1C	Z	0	2
90	MP1C	Mx	-0.000931	2
91	MP1C	X	-3.723	4.5
92	MP1C	Z	0	4.5
93	MP1C	Mx	-0.000931	4.5
94	MP5A	X	-6.077	2
95	MP5A	Z	0	2
96	MP5A	Mx	0.003	2
97	MP5A	X	-6.077	4.5
98	MP5A	Z	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
99	MP5A	Mx	0.003	4.5
100	MP5B	X	-3.723	2
101	MP5B	Z	0	2
102	MP5B	Mx	-0.000931	2
103	MP5B	X	-3.723	4.5
104	MP5B	Z	0	4.5
105	MP5B	Mx	-0.000931	4.5
106	MP5C	X	-3.723	2
107	MP5C	Z	0	2
108	MP5C	Mx	-0.000931	2
109	MP5C	X	-3.723	4.5
110	MP5C	Z	0	4.5
111	MP5C	Mx	-0.000931	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-3.741	0.75
2	MP2A	Z	-2.16	0.75
3	MP2A	Mx	0.000305	0.75
4	MP2A	X	-3.741	5.75
5	MP2A	Z	-2.16	5.75
6	MP2A	Mx	0.000305	5.75
7	MP2B	X	-4.611	0.75
8	MP2B	Z	-2.662	0.75
9	MP2B	Mx	0.004	0.75
10	MP2B	X	-4.611	5.75
11	MP2B	Z	-2.662	5.75
12	MP2B	Mx	0.004	5.75
13	MP2C	X	-3.741	0.75
14	MP2C	Z	-2.16	0.75
15	MP2C	Mx	-0.003	0.75
16	MP2C	X	-3.741	5.75
17	MP2C	Z	-2.16	5.75
18	MP2C	Mx	-0.003	5.75
19	MP2A	X	-3.741	0.75
20	MP2A	Z	-2.16	0.75
21	MP2A	Mx	0.003	0.75
22	MP2A	X	-3.741	5.75
23	MP2A	Z	-2.16	5.75
24	MP2A	Mx	0.003	5.75
25	MP2B	X	-4.611	0.75
26	MP2B	Z	-2.662	0.75
27	MP2B	Mx	-0.004	0.75
28	MP2B	X	-4.611	5.75
29	MP2B	Z	-2.662	5.75
30	MP2B	Mx	-0.004	5.75
31	MP2C	X	-3.741	0.75
32	MP2C	Z	-2.16	0.75
33	MP2C	Mx	-0.000305	0.75
34	MP2C	X	-3.741	5.75
35	MP2C	Z	-2.16	5.75
36	MP2C	Mx	-0.000305	5.75
37	MP4A	X	-1.582	2.25
38	MP4A	Z	-0.913	2.25
39	MP4A	Mx	0.000791	2.25

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP4A	X	-1.582	4.25
41	MP4A	Z	-0.913	4.25
42	MP4A	Mx	0.000791	4.25
43	MP4B	X	-3.081	2.25
44	MP4B	Z	-1.779	2.25
45	MP4B	Mx	0	2.25
46	MP4B	X	-3.081	4.25
47	MP4B	Z	-1.779	4.25
48	MP4B	Mx	0	4.25
49	MP4C	X	-1.582	2.25
50	MP4C	Z	-0.913	2.25
51	MP4C	Mx	-0.000791	2.25
52	MP4C	X	-1.582	4.25
53	MP4C	Z	-0.913	4.25
54	MP4C	Mx	-0.000791	4.25
55	MP2A	X	-2.276	0.5
56	MP2A	Z	-1.314	0.5
57	MP2A	Mx	-0.001	0.5
58	MP2B	X	-3.022	0.5
59	MP2B	Z	-1.745	0.5
60	MP2B	Mx	0	0.5
61	MP2C	X	-2.276	0.5
62	MP2C	Z	-1.314	0.5
63	MP2C	Mx	0.001	0.5
64	MP1A	X	-2.776	0.5
65	MP1A	Z	-1.603	0.5
66	MP1A	Mx	-0.001	0.5
67	MP1B	X	-3.646	0.5
68	MP1B	Z	-2.105	0.5
69	MP1B	Mx	0	0.5
70	MP1C	X	-2.776	0.5
71	MP1C	Z	-1.603	0.5
72	MP1C	Mx	0.001	0.5
73	M23	X	-5.81	1
74	M23	Z	-3.354	1
75	M23	Mx	0	1
76	MP1A	X	-4.583	2
77	MP1A	Z	-2.646	2
78	MP1A	Mx	0.002	2
79	MP1A	X	-4.583	4.5
80	MP1A	Z	-2.646	4.5
81	MP1A	Mx	0.002	4.5
82	MP1B	X	-2.544	2
83	MP1B	Z	-1.469	2
84	MP1B	Mx	0	2
85	MP1B	X	-2.544	4.5
86	MP1B	Z	-1.469	4.5
87	MP1B	Mx	0	4.5
88	MP1C	X	-4.583	2
89	MP1C	Z	-2.646	2
90	MP1C	Mx	-0.002	2
91	MP1C	X	-4.583	4.5
92	MP1C	Z	-2.646	4.5
93	MP1C	Mx	-0.002	4.5
94	MP5A	X	-4.583	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP5A	Z	-2.646	2
96	MP5A	Mx	0.002	2
97	MP5A	X	-4.583	4.5
98	MP5A	Z	-2.646	4.5
99	MP5A	Mx	0.002	4.5
100	MP5B	X	-2.544	2
101	MP5B	Z	-1.469	2
102	MP5B	Mx	0	2
103	MP5B	X	-2.544	4.5
104	MP5B	Z	-1.469	4.5
105	MP5B	Mx	0	4.5
106	MP5C	X	-4.583	2
107	MP5C	Z	-2.646	2
108	MP5C	Mx	-0.002	2
109	MP5C	X	-4.583	4.5
110	MP5C	Z	-2.646	4.5
111	MP5C	Mx	-0.002	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-2.495	0.75
2	MP2A	Z	-4.321	0.75
3	MP2A	Mx	-0.002	0.75
4	MP2A	X	-2.495	5.75
5	MP2A	Z	-4.321	5.75
6	MP2A	Mx	-0.002	5.75
7	MP2B	X	-2.495	0.75
8	MP2B	Z	-4.321	0.75
9	MP2B	Mx	0.004	0.75
10	MP2B	X	-2.495	5.75
11	MP2B	Z	-4.321	5.75
12	MP2B	Mx	0.004	5.75
13	MP2C	X	-1.992	0.75
14	MP2C	Z	-3.451	0.75
15	MP2C	Mx	-0.002	0.75
16	MP2C	X	-1.992	5.75
17	MP2C	Z	-3.451	5.75
18	MP2C	Mx	-0.002	5.75
19	MP2A	X	-2.495	0.75
20	MP2A	Z	-4.321	0.75
21	MP2A	Mx	0.004	0.75
22	MP2A	X	-2.495	5.75
23	MP2A	Z	-4.321	5.75
24	MP2A	Mx	0.004	5.75
25	MP2B	X	-2.495	0.75
26	MP2B	Z	-4.321	0.75
27	MP2B	Mx	-0.002	0.75
28	MP2B	X	-2.495	5.75
29	MP2B	Z	-4.321	5.75
30	MP2B	Mx	-0.002	5.75
31	MP2C	X	-1.992	0.75
32	MP2C	Z	-3.451	0.75
33	MP2C	Mx	-0.002	0.75
34	MP2C	X	-1.992	5.75
35	MP2C	Z	-3.451	5.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
36	MP2C	Mx	-0.002	5.75
37	MP4A	X	-1.49	2.25
38	MP4A	Z	-2.581	2.25
39	MP4A	Mx	0.000745	2.25
40	MP4A	X	-1.49	4.25
41	MP4A	Z	-2.581	4.25
42	MP4A	Mx	0.000745	4.25
43	MP4B	X	-1.49	2.25
44	MP4B	Z	-2.581	2.25
45	MP4B	Mx	0.000745	2.25
46	MP4B	X	-1.49	4.25
47	MP4B	Z	-2.581	4.25
48	MP4B	Mx	0.000745	4.25
49	MP4C	X	-0.625	2.25
50	MP4C	Z	-1.082	2.25
51	MP4C	Mx	-0.000625	2.25
52	MP4C	X	-0.625	4.25
53	MP4C	Z	-1.082	4.25
54	MP4C	Mx	-0.000625	4.25
55	MP2A	X	-1.601	0.5
56	MP2A	Z	-2.773	0.5
57	MP2A	Mx	-0.0008	0.5
58	MP2B	X	-1.601	0.5
59	MP2B	Z	-2.773	0.5
60	MP2B	Mx	-0.0008	0.5
61	MP2C	X	-1.171	0.5
62	MP2C	Z	-2.028	0.5
63	MP2C	Mx	0.001	0.5
64	MP1A	X	-1.938	0.5
65	MP1A	Z	-3.356	0.5
66	MP1A	Mx	-0.000969	0.5
67	MP1B	X	-1.938	0.5
68	MP1B	Z	-3.356	0.5
69	MP1B	Mx	-0.000969	0.5
70	MP1C	X	-1.435	0.5
71	MP1C	Z	-2.486	0.5
72	MP1C	Mx	0.001	0.5
73	M23	X	-3.568	1
74	M23	Z	-6.181	1
75	M23	Mx	0	1
76	MP1A	X	-1.861	2
77	MP1A	Z	-3.224	2
78	MP1A	Mx	0.00093	2
79	MP1A	X	-1.861	4.5
80	MP1A	Z	-3.224	4.5
81	MP1A	Mx	0.00093	4.5
82	MP1B	X	-1.861	2
83	MP1B	Z	-3.224	2
84	MP1B	Mx	0.000931	2
85	MP1B	X	-1.861	4.5
86	MP1B	Z	-3.224	4.5
87	MP1B	Mx	0.000931	4.5
88	MP1C	X	-3.039	2
89	MP1C	Z	-5.263	2
90	MP1C	Mx	-0.003	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
91	MP1C	X	-3.039	4.5
92	MP1C	Z	-5.263	4.5
93	MP1C	Mx	-0.003	4.5
94	MP5A	X	-1.861	2
95	MP5A	Z	-3.224	2
96	MP5A	Mx	0.00093	2
97	MP5A	X	-1.861	4.5
98	MP5A	Z	-3.224	4.5
99	MP5A	Mx	0.00093	4.5
100	MP5B	X	-1.861	2
101	MP5B	Z	-3.224	2
102	MP5B	Mx	0.000931	2
103	MP5B	X	-1.861	4.5
104	MP5B	Z	-3.224	4.5
105	MP5B	Mx	0.000931	4.5
106	MP5C	X	-3.039	2
107	MP5C	Z	-5.263	2
108	MP5C	Mx	-0.003	2
109	MP5C	X	-3.039	4.5
110	MP5C	Z	-5.263	4.5
111	MP5C	Mx	-0.003	4.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	LM1	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	LM2	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M7	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M7	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	-0.937	0.75
2	MP2A	My	-0.000469	0.75
3	MP2A	Mz	0.000679	0.75
4	MP2A	Y	-0.937	5.75
5	MP2A	My	-0.000469	5.75
6	MP2A	Mz	0.000679	5.75
7	MP2B	Y	-0.937	0.75
8	MP2B	My	-0.000354	0.75
9	MP2B	Mz	-0.000746	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
10	MP2B	Y	-0.937	5.75
11	MP2B	My	-0.000354	5.75
12	MP2B	Mz	-0.000746	5.75
13	MP2C	Y	-0.937	0.75
14	MP2C	My	0.000823	0.75
15	MP2C	Mz	6.6e-5	0.75
16	MP2C	Y	-0.937	5.75
17	MP2C	My	0.000823	5.75
18	MP2C	Mz	6.6e-5	5.75
19	MP2A	Y	-0.937	0.75
20	MP2A	My	-0.000469	0.75
21	MP2A	Mz	-0.000679	0.75
22	MP2A	Y	-0.937	5.75
23	MP2A	My	-0.000469	5.75
24	MP2A	Mz	-0.000679	5.75
25	MP2B	Y	-0.937	0.75
26	MP2B	My	0.000823	0.75
27	MP2B	Mz	-6.6e-5	0.75
28	MP2B	Y	-0.937	5.75
29	MP2B	My	0.000823	5.75
30	MP2B	Mz	-6.6e-5	5.75
31	MP2C	Y	-0.937	0.75
32	MP2C	My	-0.000354	0.75
33	MP2C	Mz	0.000746	0.75
34	MP2C	Y	-0.937	5.75
35	MP2C	My	-0.000354	5.75
36	MP2C	Mz	0.000746	5.75
37	MP4A	Y	-1.167	2.25
38	MP4A	My	-0.000584	2.25
39	MP4A	Mz	0	2.25
40	MP4A	Y	-1.167	4.25
41	MP4A	My	-0.000584	4.25
42	MP4A	Mz	0	4.25
43	MP4B	Y	-1.167	2.25
44	MP4B	My	0.000292	2.25
45	MP4B	Mz	-0.000505	2.25
46	MP4B	Y	-1.167	4.25
47	MP4B	My	0.000292	4.25
48	MP4B	Mz	-0.000505	4.25
49	MP4C	Y	-1.167	2.25
50	MP4C	My	0.000292	2.25
51	MP4C	Mz	0.000505	2.25
52	MP4C	Y	-1.167	4.25
53	MP4C	My	0.000292	4.25
54	MP4C	Mz	0.000505	4.25
55	MP2A	Y	-3.044	0.5
56	MP2A	My	0.002	0.5
57	MP2A	Mz	0	0.5
58	MP2B	Y	-3.044	0.5
59	MP2B	My	-0.000761	0.5
60	MP2B	Mz	0.001	0.5
61	MP2C	Y	-3.044	0.5
62	MP2C	My	-0.000761	0.5
63	MP2C	Mz	-0.001	0.5
64	MP1A	Y	-3.223	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
65	MP1A	My	0.002	0.5
66	MP1A	Mz	0	0.5
67	MP1B	Y	-3.223	0.5
68	MP1B	My	-0.000806	0.5
69	MP1B	Mz	0.001	0.5
70	MP1C	Y	-3.223	0.5
71	MP1C	My	-0.000806	0.5
72	MP1C	Mz	-0.001	0.5
73	M23	Y	-1.304	1
74	M23	My	0	1
75	M23	Mz	0	1
76	MP1A	Y	-0.244	2
77	MP1A	My	-0.000122	2
78	MP1A	Mz	0	2
79	MP1A	Y	-0.244	4.5
80	MP1A	My	-0.000122	4.5
81	MP1A	Mz	0	4.5
82	MP1B	Y	-0.244	2
83	MP1B	My	6.1e-5	2
84	MP1B	Mz	-0.000106	2
85	MP1B	Y	-0.244	4.5
86	MP1B	My	6.1e-5	4.5
87	MP1B	Mz	-0.000106	4.5
88	MP1C	Y	-0.244	2
89	MP1C	My	6.1e-5	2
90	MP1C	Mz	0.000106	2
91	MP1C	Y	-0.244	4.5
92	MP1C	My	6.1e-5	4.5
93	MP1C	Mz	0.000106	4.5
94	MP5A	Y	-0.244	2
95	MP5A	My	-0.000122	2
96	MP5A	Mz	0	2
97	MP5A	Y	-0.244	4.5
98	MP5A	My	-0.000122	4.5
99	MP5A	Mz	0	4.5
100	MP5B	Y	-0.244	2
101	MP5B	My	6.1e-5	2
102	MP5B	Mz	-0.000106	2
103	MP5B	Y	-0.244	4.5
104	MP5B	My	6.1e-5	4.5
105	MP5B	Mz	-0.000106	4.5
106	MP5C	Y	-0.244	2
107	MP5C	My	6.1e-5	2
108	MP5C	Mz	0.000106	2
109	MP5C	Y	-0.244	4.5
110	MP5C	My	6.1e-5	4.5
111	MP5C	Mz	0.000106	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Z	-2.343	0.75
2	MP2A	Mx	-0.002	0.75
3	MP2A	Z	-2.343	5.75
4	MP2A	Mx	-0.002	5.75
5	MP2B	Z	-2.343	0.75

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
6	MP2B	Mx	0.002	0.75
7	MP2B	Z	-2.343	5.75
8	MP2B	Mx	0.002	5.75
9	MP2C	Z	-2.343	0.75
10	MP2C	Mx	-0.000165	0.75
11	MP2C	Z	-2.343	5.75
12	MP2C	Mx	-0.000165	5.75
13	MP2A	Z	-2.343	0.75
14	MP2A	Mx	0.002	0.75
15	MP2A	Z	-2.343	5.75
16	MP2A	Mx	0.002	5.75
17	MP2B	Z	-2.343	0.75
18	MP2B	Mx	0.000165	0.75
19	MP2B	Z	-2.343	5.75
20	MP2B	Mx	0.000165	5.75
21	MP2C	Z	-2.343	0.75
22	MP2C	Mx	-0.002	0.75
23	MP2C	Z	-2.343	5.75
24	MP2C	Mx	-0.002	5.75
25	MP4A	Z	-2.918	2.25
26	MP4A	Mx	0	2.25
27	MP4A	Z	-2.918	4.25
28	MP4A	Mx	0	4.25
29	MP4B	Z	-2.918	2.25
30	MP4B	Mx	0.001	2.25
31	MP4B	Z	-2.918	4.25
32	MP4B	Mx	0.001	4.25
33	MP4C	Z	-2.918	2.25
34	MP4C	Mx	-0.001	2.25
35	MP4C	Z	-2.918	4.25
36	MP4C	Mx	-0.001	4.25
37	MP2A	Z	-7.609	0.5
38	MP2A	Mx	0	0.5
39	MP2B	Z	-7.609	0.5
40	MP2B	Mx	-0.003	0.5
41	MP2C	Z	-7.609	0.5
42	MP2C	Mx	0.003	0.5
43	MP1A	Z	-8.058	0.5
44	MP1A	Mx	0	0.5
45	MP1B	Z	-8.058	0.5
46	MP1B	Mx	-0.003	0.5
47	MP1C	Z	-8.058	0.5
48	MP1C	Mx	0.003	0.5
49	M23	Z	-3.26	1
50	M23	Mx	0	1
51	MP1A	Z	-0.611	2
52	MP1A	Mx	0	2
53	MP1A	Z	-0.611	4.5
54	MP1A	Mx	0	4.5
55	MP1B	Z	-0.611	2
56	MP1B	Mx	0.000265	2
57	MP1B	Z	-0.611	4.5
58	MP1B	Mx	0.000265	4.5
59	MP1C	Z	-0.611	2
60	MP1C	Mx	-0.000265	2

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
61	MP1C	Z	-0.611	4.5
62	MP1C	Mx	-0.000265	4.5
63	MP5A	Z	-0.611	2
64	MP5A	Mx	0	2
65	MP5A	Z	-0.611	4.5
66	MP5A	Mx	0	4.5
67	MP5B	Z	-0.611	2
68	MP5B	Mx	0.000265	2
69	MP5B	Z	-0.611	4.5
70	MP5B	Mx	0.000265	4.5
71	MP5C	Z	-0.611	2
72	MP5C	Mx	-0.000265	2
73	MP5C	Z	-0.611	4.5
74	MP5C	Mx	-0.000265	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	2.343	0.75
2	MP2A	Mx	-0.001	0.75
3	MP2A	X	2.343	5.75
4	MP2A	Mx	-0.001	5.75
5	MP2B	X	2.343	0.75
6	MP2B	Mx	-0.000885	0.75
7	MP2B	X	2.343	5.75
8	MP2B	Mx	-0.000885	5.75
9	MP2C	X	2.343	0.75
10	MP2C	Mx	0.002	0.75
11	MP2C	X	2.343	5.75
12	MP2C	Mx	0.002	5.75
13	MP2A	X	2.343	0.75
14	MP2A	Mx	-0.001	0.75
15	MP2A	X	2.343	5.75
16	MP2A	Mx	-0.001	5.75
17	MP2B	X	2.343	0.75
18	MP2B	Mx	0.002	0.75
19	MP2B	X	2.343	5.75
20	MP2B	Mx	0.002	5.75
21	MP2C	X	2.343	0.75
22	MP2C	Mx	-0.000885	0.75
23	MP2C	X	2.343	5.75
24	MP2C	Mx	-0.000885	5.75
25	MP4A	X	2.918	2.25
26	MP4A	Mx	-0.001	2.25
27	MP4A	X	2.918	4.25
28	MP4A	Mx	-0.001	4.25
29	MP4B	X	2.918	2.25
30	MP4B	Mx	0.00073	2.25
31	MP4B	X	2.918	4.25
32	MP4B	Mx	0.00073	4.25
33	MP4C	X	2.918	2.25
34	MP4C	Mx	0.00073	2.25
35	MP4C	X	2.918	4.25
36	MP4C	Mx	0.00073	4.25
37	MP2A	X	7.609	0.5
38	MP2A	Mx	0.004	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
39	MP2B	X	7.609	0.5
40	MP2B	Mx	-0.002	0.5
41	MP2C	X	7.609	0.5
42	MP2C	Mx	-0.002	0.5
43	MP1A	X	8.058	0.5
44	MP1A	Mx	0.004	0.5
45	MP1B	X	8.058	0.5
46	MP1B	Mx	-0.002	0.5
47	MP1C	X	8.058	0.5
48	MP1C	Mx	-0.002	0.5
49	M23	X	3.26	1
50	M23	Mx	0	1
51	MP1A	X	0.611	2
52	MP1A	Mx	-0.000306	2
53	MP1A	X	0.611	4.5
54	MP1A	Mx	-0.000306	4.5
55	MP1B	X	0.611	2
56	MP1B	Mx	0.000153	2
57	MP1B	X	0.611	4.5
58	MP1B	Mx	0.000153	4.5
59	MP1C	X	0.611	2
60	MP1C	Mx	0.000153	2
61	MP1C	X	0.611	4.5
62	MP1C	Mx	0.000153	4.5
63	MP5A	X	0.611	2
64	MP5A	Mx	-0.000306	2
65	MP5A	X	0.611	4.5
66	MP5A	Mx	-0.000306	4.5
67	MP5B	X	0.611	2
68	MP5B	Mx	0.000153	2
69	MP5B	X	0.611	4.5
70	MP5B	Mx	0.000153	4.5
71	MP5C	X	0.611	2
72	MP5C	Mx	0.000153	2
73	MP5C	X	0.611	4.5
74	MP5C	Mx	0.000153	4.5

Member Area Loads (BLC 39 : Structure D)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N158A	N159A	N21A	N24	Y	A-B	-0.009
2	N158A	N103A	N28	N24	Y	A-B	-0.009
3	N103A	N85	N21A	N28	Y	A-B	-0.009

Member Area Loads (BLC 40 : Structure Di)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N158A	N159A	N21A	N24	Y	A-B	-0.01
2	N158A	N103A	N28	N24	Y	A-B	-0.01
3	N103A	N85	N21A	N28	Y	A-B	-0.01

Member Area Loads (BLC 84 : Structure Ev)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N158A	N159A	N21A	N24	Y	Two Way	-0.000212
2	N158A	N103A	N28	N24	Y	Two Way	-0.000212
3	N103A	N85	N21A	N28	Y	Two Way	-0.000212

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

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N158A	N159A	N21A	N24	Z	Two Way	-0.00053
2	N158A	N103A	N28	N24	Z	Two Way	-0.00053
3	N103A	N85	N21A	N28	Z	Two Way	-0.00053

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

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	N158A	N159A	N21A	N24	X	Two Way	0.00053
2	N158A	N103A	N28	N24	X	Two Way	0.00053
3	N103A	N85	N21A	N28	X	Two Way	0.00053

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
0	N23	max	455.425	10	79.272	7	6065.918	1	0.062	7	0.975	4	0.227	4
1		min	-456.372	4	-422.376	13	-3019.679	7	-0.316	13	-0.975	10	-0.172	10
2	N26	max	5430.875	9	174.129	3	1571.396	3	0.4	12	1.17	12	0.306	7
3		min	-2782.961	3	-403.492	9	-3098.794	9	-0.275	6	-1.171	6	-0.2	1
4	N29	max	2616.947	11	79.957	11	1537.329	11	0.228	3	0.975	8	0.063	12
5		min	-5228.064	5	-421.092	17	-3045.8	5	-0.16	9	-0.976	2	-0.318	18
6	N106A	max	47.21	10	2921.357	13	-623.087	7	0	75	0	11	0	5
7		min	-47.256	4	323.709	7	-5783.56	13	0	1	0	5	0	11
8	N107A	max	-453.493	3	2953.844	21	2924.538	21	0	1	0	7	0	7
9		min	-5065.482	21	274.324	3	261.825	3	0	7	0	1	0	1
10	N110	max	4982.82	17	2906.528	17	2876.79	17	0	3	0	3	0	3
11		min	526.284	11	316.074	11	303.877	11	0	9	0	9	0	9
12	Totals:	max	4957.025	10	7141.304	19	4973.153	1						
13		min	-4957.025	4	2275.602	64	-4973.153	7						

Node Reactions

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
0	1	N23	-39.947	-383.984	6065.918	-0.288	0.069	0.03
1	1	N26	-555.604	44.149	783.289	0.3	0.662	-0.2
2	1	N29	542.369	-51.419	706.993	0.15	-0.643	0.036
3	1	N106A	0.165	2074.322	-4118.285	0	0	0
4	1	N107A	-1233.125	729.416	752.372	0	0	0
5	1	N110	1286.153	759.786	782.866	0	0	0
6	1	Totals:	0.011	3172.269	4973.153			
7	1	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
8	2	N23	-133.43	-345.308	5493.234	-0.255	0.123	0.126
9	2	N26	-2182.309	143.382	1393.615	0.136	0.046	-0.173
10	2	N29	-1515.693	-168.346	-349.102	0.215	-0.976	-0.028
11	2	N106A	-12.69	1950.994	-3864.687	0	0	0
12	2	N107A	-660.321	394.124	395.694	0	0	0
13	2	N110	2025.947	1197.425	1224.222	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
14	2	Totals:	-2478.496	3172.27	4292.975			
15	2	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
16	3	N23	-353.011	-254.255	3861.772	-0.182	0.674	0.201
17	3	N26	-2782.961	174.129	1571.396	-0.029	-0.038	-0.098
18	3	N29	-3433.987	-278.713	-1650.609	0.228	-0.516	-0.114
19	3	N106A	-33.99	1625.823	-3209.802	0	0	0
20	3	N107A	-453.493	274.324	261.825	0	0	0
21	3	N110	2771.497	1630.966	1639.936	0	0	0
22	3	Totals:	-4285.944	3172.274	2474.518			
23	3	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
24	4	N23	-456.372	-138.298	1558.505	-0.094	0.975	0.227
25	4	N26	-2356.777	130.585	1144.358	-0.169	-0.182	0.021
26	4	N29	-4751.161	-357.456	-2675.142	0.191	0.013	-0.201
27	4	N106A	-47.256	1188.708	-2349.08	0	0	0
28	4	N107A	-682.489	399.676	379.657	0	0	0
29	4	N110	3337.03	1949.067	1941.678	0	0	0
30	4	Totals:	-4957.025	3172.28	-0.024			
31	4	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
32	5	N23	-278.163	-26.944	-760.319	-0.013	0.483	0.196
33	5	N26	-1028.813	19.079	58.886	-0.266	-0.821	0.162
34	5	N29	-5228.064	-383.332	-3045.8	0.117	0.007	-0.264
35	5	N106A	-35.143	754.807	-1495.251	0	0	0
36	5	N107A	-1289.937	741.985	704.595	0	0	0
37	5	N110	3553.301	2066.693	2051.3	0	0	0
38	5	Totals:	-4306.819	3172.287	-2486.589			
39	5	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
40	6	N23	-47.373	53.404	-2420.627	0.045	-0.068	0.121
41	6	N26	1001.304	-132.45	-1270.009	-0.275	-1.171	0.27
42	6	N29	-4682.315	-345.674	-2841.37	0.018	0.07	-0.285
43	6	N106A	-12.602	437.401	-856.852	0	0	0
44	6	N107A	-2097.775	1211.592	1156.904	0	0	0
45	6	N110	3348.201	1948.019	1918.118	0	0	0
46	6	Totals:	-2490.561	3172.292	-4313.836			
47	6	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
48	7	N23	38.355	79.272	-3019.679	0.062	-0.069	0.025
49	7	N26	3202.671	-277.17	-2313.674	-0.176	-0.663	0.306
50	7	N29	-3150.935	-255.111	-2217.65	-0.082	0.644	-0.259
51	7	N106A	-0.026	323.709	-623.087	0	0	0
52	7	N107A	-2885.493	1676.58	1626.404	0	0	0
53	7	N110	2795.416	1625.014	1574.533	0	0	0
54	7	Totals:	-0.011	3172.295	-4973.153			
55	7	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
56	8	N23	132.505	39.531	-2448.926	0.028	-0.122	-0.072
57	8	N26	4829.956	-373.938	-2919.892	-0.013	-0.046	0.277
58	8	N29	-1097.162	-139.237	-1160.339	-0.148	0.975	-0.196
59	8	N106A	12.467	447.68	-877.55	0	0	0
60	8	N107A	-3456.465	2010.004	1980.578	0	0	0
61	8	N110	2057.196	1188.254	1133.154	0	0	0
62	8	Totals:	2478.496	3172.294	-4292.975			
63	8	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
64	9	N23	348.902	-53.625	-816.13	-0.045	-0.674	-0.146
65	9	N26	5430.875	-403.492	-3098.794	0.152	0.038	0.201
66	9	N29	821.994	-27.796	144.285	-0.16	0.514	-0.109
67	9	N106A	34.83	774.295	-1534.499	0	0	0
68	9	N107A	-3661.797	2128.862	2114.144	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
69	9	N110	1311.14	754.047	716.477	0	0	0
70	9	Totals:	4285.945	3172.29	-2474.518			
71	9	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
72	10	N23	455.425	-170.624	1489.779	-0.133	-0.975	-0.172
73	10	N26	5003.213	-361.187	-2671.147	0.292	0.182	0.083
74	10	N29	2141.68	53.048	1166.186	-0.124	-0.014	-0.021
75	10	N106A	47.21	1212.243	-2396.488	0	0	0
76	10	N107A	-3433.731	2004.326	1997.074	0	0	0
77	10	N110	743.227	434.477	414.621	0	0	0
78	10	Totals:	4957.025	3172.284	0.024			
79	10	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
80	11	N23	279.588	-280.891	3805.841	-0.214	-0.485	-0.141
81	11	N26	3678.704	-252.15	-1583.621	0.39	0.822	-0.056
82	11	N29	2616.947	79.957	1537.329	-0.05	-0.007	0.043
83	11	N106A	34.601	1645.427	-3249.304	0	0	0
84	11	N107A	-2829.304	1663.86	1672.467	0	0	0
85	11	N110	526.284	316.074	303.877	0	0	0
86	11	Totals:	4306.819	3172.277	2486.589			
87	11	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
88	12	N23	44.916	-359.131	5465.435	-0.271	0.066	-0.066
89	12	N26	1649.51	-101.845	-259.403	0.4	1.17	-0.163
90	12	N29	2073.004	41.253	1334.279	0.05	-0.068	0.063
91	12	N106A	13.307	1961.356	-3885.57	0	0	0
92	12	N107A	-2022.366	1195.305	1221.902	0	0	0
93	12	N110	732.19	435.335	437.192	0	0	0
94	12	Totals:	2490.561	3172.272	4313.836			
95	12	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
96	13	N23	-12.178	-422.376	4548.714	-0.316	0.021	0.081
97	13	N26	2519.832	-213.419	-1338.711	0.205	0.167	0.04
98	13	N29	-2463.102	-341.467	-1309.168	0.099	-0.184	-0.241
99	13	N106A	0.068	2921.357	-5783.56	0	0	0
100	13	N107A	-4469.944	2611.39	2589.188	0	0	0
101	13	N110	4425.328	2585.812	2563.273	0	0	0
102	13	Totals:	0.003	7141.297	1269.736			
103	13	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
104	14	N23	-36.284	-412.588	4408.032	-0.307	0.03	0.105
105	14	N26	2107.801	-190.056	-1190.952	0.167	-0.006	0.047
106	14	N29	-2980.768	-369.582	-1573.435	0.114	-0.276	-0.256
107	14	N106A	-2.738	2890.929	-5720.882	0	0	0
108	14	N107A	-4328.964	2529.471	2502.64	0	0	0
109	14	N110	4607.671	2693.124	2671.5	0	0	0
110	14	Totals:	-633.283	7141.298	1096.903			
111	14	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
112	15	N23	-98.803	-390.17	3999.336	-0.29	0.194	0.123
113	15	N26	1955.988	-182.975	-1142.454	0.128	-0.011	0.065
114	15	N29	-3458.481	-396.122	-1909.659	0.116	-0.131	-0.277
115	15	N106A	-7.044	2810.876	-5559.235	0	0	0
116	15	N107A	-4278.09	2500.155	2469.928	0	0	0
117	15	N110	4790.91	2799.535	2774.594	0	0	0
118	15	Totals:	-1095.521	7141.299	632.511			
119	15	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
120	16	N23	-126.73	-362.1	3419.958	-0.268	0.278	0.129
121	16	N26	2061.198	-193.809	-1247.905	0.095	-0.041	0.094
122	16	N29	-3786.639	-415.068	-2174.006	0.107	0.023	-0.298
123	16	N106A	-9.707	2703.522	-5347.093	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
124	16	N107A	-4334.528	2531.052	2499.374	0	0	0
125	16	N110	4929.833	2877.703	2849.666	0	0	0
126	16	Totals:	-1266.573	7141.3	-0.007			
127	16	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
128	17	N23	-72.437	-335.523	2837.106	-0.249	0.126	0.121
129	17	N26	2389.708	-220.636	-1525.049	0.073	-0.225	0.127
130	17	N29	-3909.054	-421.092	-2266.919	0.089	0.007	-0.313
131	17	N106A	-7.457	2597.173	-5137.006	0	0	0
132	17	N107A	-4483.181	2614.852	2580.207	0	0	0
133	17	N110	4982.82	2906.528	2876.79	0	0	0
134	17	Totals:	-1099.6	7141.302	-634.87			
135	17	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
136	18	N23	-6.529	-316.57	2419.317	-0.236	-0.032	0.102
137	18	N26	2897.065	-256.501	-1857.951	0.071	-0.321	0.152
138	18	N29	-3774.391	-411.536	-2217.593	0.064	0.018	-0.318
139	18	N106A	-2.961	2519.438	-4980.08	0	0	0
140	18	N107A	-4680.589	2729.324	2691.238	0	0	0
141	18	N110	4931.764	2877.148	2844.092	0	0	0
142	18	Totals:	-635.642	7141.303	-1100.977			
143	18	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
144	19	N23	13.325	-310.715	2266.324	-0.232	-0.019	0.079
145	19	N26	3453.053	-290.758	-2111.075	0.095	-0.164	0.16
146	19	N29	-3387.333	-389.236	-2067.864	0.04	0.187	-0.311
147	19	N106A	-0.024	2491.612	-4922.67	0	0	0
148	19	N107A	-4873.842	2842.786	2805.454	0	0	0
149	19	N110	4794.817	2797.615	2760.095	0	0	0
150	19	Totals:	-0.003	7141.304	-1269.735			
151	19	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
152	20	N23	37.496	-320.568	2406.839	-0.241	-0.027	0.055
153	20	N26	3865.154	-313.968	-2258.531	0.133	0.009	0.153
154	20	N29	-2869.986	-361.188	-1803.513	0.024	0.279	-0.296
155	20	N106A	2.752	2522.075	-4985.394	0	0	0
156	20	N107A	-5014.716	2924.591	2891.833	0	0	0
157	20	N110	4612.583	2690.361	2651.863	0	0	0
158	20	Totals:	633.283	7141.303	-1096.902			
159	20	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
160	21	N23	99.765	-343.116	2815.634	-0.259	-0.191	0.037
161	21	N26	4016.972	-320.973	-2307.15	0.172	0.014	0.135
162	21	N29	-2392.195	-334.583	-1467.077	0.022	0.134	-0.275
163	21	N106A	7.141	2602.217	-5147.17	0	0	0
164	21	N107A	-5065.482	2953.844	2924.538	0	0	0
165	21	N110	4429.319	2583.913	2548.714	0	0	0
166	21	Totals:	1095.521	7141.302	-632.51			
167	21	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
168	22	N23	127.918	-371.253	3395.218	-0.28	-0.276	0.031
169	22	N26	3911.618	-310.214	-2201.66	0.205	0.044	0.106
170	22	N29	-2063.854	-315.507	-1202.945	0.032	-0.019	-0.254
171	22	N106A	9.74	2709.628	-5359.398	0	0	0
172	22	N107A	-5009.09	2922.993	2895.143	0	0	0
173	22	N110	4290.239	2505.654	2473.649	0	0	0
174	22	Totals:	1266.573	7141.301	0.008			
175	22	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
176	23	N23	73.782	-397.763	3977.869	-0.299	-0.124	0.039
177	23	N26	3583.358	-283.541	-1924.349	0.227	0.228	0.073
178	23	N29	-1941.58	-309.417	-1109.972	0.05	-0.004	-0.239

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
179	23	N106A	7.46	2815.936	-5569.43	0	0	0
180	23	N107A	-4860.632	2839.307	2814.316	0	0	0
181	23	N110	4237.212	2476.777	2446.437	0	0	0
182	23	Totals:	1099.6	7141.299	634.871			
183	23	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
184	24	N23	7.578	-416.586	4395.619	-0.312	0.034	0.058
185	24	N26	3076.077	-247.754	-1591.783	0.229	0.323	0.048
186	24	N29	-2076.103	-319.036	-1159.17	0.074	-0.015	-0.234
187	24	N106A	3.058	2893.58	-5726.224	0	0	0
188	24	N107A	-4663.283	2724.904	2703.404	0	0	0
189	24	N110	4288.315	2506.189	2479.133	0	0	0
190	24	Totals:	635.642	7141.298	1100.978			
191	24	COG (ft):	X: -0.066	Y: 1.317	Z: -0.807			
192	25	N23	-5.601	-151.095	1404.451	-0.112	0.013	0.041
193	25	N26	1021.478	-105.347	-565.856	0.052	0.03	0.052
194	25	N29	-2696.237	-352.37	-1532.719	0.069	-0.039	-0.285
195	25	N106A	0.029	1194.899	-2360.643	0	0	0
196	25	N107A	-2031.059	1186.834	1174.784	0	0	0
197	25	N110	3711.392	2149.363	2144.821	0	0	0
198	25	Totals:	0.002	3922.285	264.838			
199	25	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
200	26	N23	-10.595	-149.006	1374.002	-0.11	0.016	0.046
201	26	N26	934.845	-100.121	-533.448	0.043	-0.003	0.053
202	26	N29	-2805.699	-358.512	-1588.929	0.073	-0.057	-0.288
203	26	N106A	-0.646	1188.311	-2347.109	0	0	0
204	26	N107A	-2000.598	1169.024	1155.851	0	0	0
205	26	N110	3750.704	2172.589	2168.252	0	0	0
206	26	Totals:	-131.989	3922.285	228.619			
207	26	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
208	27	N23	-22.19	-144.098	1287.088	-0.106	0.045	0.05
209	27	N26	902.851	-98.512	-523.953	0.035	-0.007	0.057
210	27	N29	-2907.808	-364.358	-1658.331	0.073	-0.033	-0.293
211	27	N106A	-1.811	1170.953	-2312.174	0	0	0
212	27	N107A	-1989.614	1162.663	1148.725	0	0	0
213	27	N110	3790.329	2195.637	2190.423	0	0	0
214	27	Totals:	-228.242	3922.285	131.779			
215	27	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
216	28	N23	-27.765	-137.888	1164.363	-0.101	0.061	0.052
217	28	N26	925.586	-100.801	-546.706	0.027	-0.015	0.064
218	28	N29	-2977.961	-368.562	-1712.848	0.071	-0.005	-0.297
219	28	N106A	-2.497	1147.65	-2266.299	0	0	0
220	28	N107A	-2001.775	1169.312	1154.975	0	0	0
221	28	N110	3820.436	2212.574	2206.515	0	0	0
222	28	Totals:	-263.976	3922.285	-0.001			
223	28	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
224	29	N23	-18.347	-131.977	1040.942	-0.097	0.035	0.05
225	29	N26	996.218	-106.679	-604.552	0.022	-0.049	0.071
226	29	N29	-3003.323	-369.95	-1732.573	0.067	-0.005	-0.301
227	29	N106A	-1.837	1124.56	-2220.856	0	0	0
228	29	N107A	-2034.033	1187.487	1172.263	0	0	0
229	29	N110	3831.968	2218.845	2212.355	0	0	0
230	29	Totals:	-229.353	3922.286	-132.421			
231	29	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
232	30	N23	-5.971	-127.747	952.544	-0.094	0.006	0.046
233	30	N26	1104.307	-114.722	-675.198	0.021	-0.067	0.077

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
234	30	N29	-2974.326	-367.932	-1721.715	0.062	-0.002	-0.302
235	30	N106A	-0.666	1107.698	-2186.923	0	0	0
236	30	N107A	-2077.022	1212.464	1196.302	0	0	0
237	30	N110	3821.046	2212.524	2205.258	0	0	0
238	30	Totals:	-132.631	3922.286	-229.731			
239	30	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
240	31	N23	-1.427	-126.394	920.619	-0.093	0.006	0.041
241	31	N26	1221.617	-122.465	-730.757	0.027	-0.04	0.079
242	31	N29	-2892.793	-363.097	-1688.477	0.057	0.029	-0.3
243	31	N106A	0.017	1101.669	-2174.515	0	0	0
244	31	N107A	-2119.005	1237.247	1221.303	0	0	0
245	31	N110	3791.591	2195.326	2186.988	0	0	0
246	31	Totals:	0.001	3922.286	-264.838			
247	31	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
248	32	N23	3.569	-128.486	951.063	-0.095	0.003	0.036
249	32	N26	1308.252	-127.684	-763.153	0.035	-0.007	0.077
250	32	N29	-2783.343	-356.958	-1632.263	0.053	0.047	-0.297
251	32	N106A	0.691	1108.259	-2188.051	0	0	0
252	32	N107A	-2149.461	1255.052	1240.229	0	0	0
253	32	N110	3752.284	2172.103	2163.557	0	0	0
254	32	Totals:	131.992	3922.286	-228.619			
255	32	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
256	33	N23	15.155	-133.4	1037.981	-0.099	-0.026	0.032
257	33	N26	1340.247	-129.289	-772.652	0.044	-0.003	0.073
258	33	N29	-2681.232	-351.109	-1562.853	0.053	0.022	-0.292
259	33	N106A	1.859	1125.62	-2222.992	0	0	0
260	33	N107A	-2160.441	1261.41	1247.354	0	0	0
261	33	N110	3712.657	2149.054	2141.383	0	0	0
262	33	Totals:	228.245	3922.286	-131.779			
263	33	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
264	34	N23	20.738	-139.612	1160.714	-0.103	-0.042	0.03
265	34	N26	1317.508	-127.004	-749.896	0.052	0.005	0.067
266	34	N29	-2611.072	-346.899	-1508.343	0.055	-0.006	-0.288
267	34	N106A	2.543	1148.926	-2268.87	0	0	0
268	34	N107A	-2148.282	1254.763	1241.106	0	0	0
269	34	N110	3682.544	2132.112	2125.291	0	0	0
270	34	Totals:	263.979	3922.286	0.001			
271	34	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
272	35	N23	11.327	-145.52	1284.126	-0.108	-0.016	0.032
273	35	N26	1246.885	-121.133	-692.045	0.057	0.039	0.06
274	35	N29	-2585.714	-345.508	-1488.616	0.058	-0.006	-0.284
275	35	N106A	1.881	1172.014	-2314.311	0	0	0
276	35	N107A	-2116.033	1236.593	1223.819	0	0	0
277	35	N110	3671.01	2125.839	2119.448	0	0	0
278	35	Totals:	229.356	3922.285	132.421			
279	35	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
280	36	N23	-1.059	-149.745	1372.522	-0.111	0.013	0.036
281	36	N26	1138.799	-113.094	-621.412	0.057	0.057	0.054
282	36	N29	-2614.707	-347.529	-1499.471	0.064	-0.009	-0.283
283	36	N106A	0.714	1188.872	-2348.238	0	0	0
284	36	N107A	-2073.047	1211.619	1199.785	0	0	0
285	36	N110	3681.934	2132.161	2126.545	0	0	0
286	36	Totals:	132.634	3922.285	229.731			
287	36	COG (ft):	X: 1.07	Y: 1.12	Z: -0.082			
288	37	N23	-4.828	-150.586	1451.397	-0.111	0.01	0.029

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
289	37	N26	1322.298	-127.967	-736.951	0.047	0.036	0.072
290	37	N29	-2388.083	-266.411	-1353.421	-0.022	-0.042	-0.235
291	37	N106A	0.02	1191.82	-2354.446	0	0	0
292	37	N107A	-2282.82	1331.083	1320.117	0	0	0
293	37	N110	3353.413	1944.348	1938.142	0	0	0
294	37	Totals:	0	3922.287	264.838			
295	37	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
296	38	N23	-9.822	-148.498	1420.955	-0.109	0.013	0.035
297	38	N26	1235.673	-122.75	-704.565	0.038	0.003	0.073
298	38	N29	-2497.542	-272.566	-1409.638	-0.018	-0.06	-0.238
299	38	N106A	-0.655	1185.236	-2340.919	0	0	0
300	38	N107A	-2252.371	1313.285	1301.202	0	0	0
301	38	N110	3392.727	1967.582	1961.584	0	0	0
302	38	Totals:	-131.991	3922.287	228.619			
303	38	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
304	39	N23	-21.419	-143.592	1334.05	-0.105	0.042	0.038
305	39	N26	1203.684	-121.144	-695.071	0.03	-0.001	0.077
306	39	N29	-2599.664	-278.425	-1479.036	-0.018	-0.036	-0.243
307	39	N106A	-1.82	1167.882	-2305.992	0	0	0
308	39	N107A	-2241.392	1306.927	1294.076	0	0	0
309	39	N110	3432.367	1990.639	1983.751	0	0	0
310	39	Totals:	-228.244	3922.287	131.779			
311	39	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
312	40	N23	-26.995	-137.383	1211.334	-0.1	0.058	0.04
313	40	N26	1226.416	-123.428	-717.823	0.022	-0.009	0.084
314	40	N29	-2669.828	-282.637	-1533.549	-0.02	-0.007	-0.247
315	40	N106A	-2.506	1144.58	-2260.121	0	0	0
316	40	N107A	-2253.549	1313.573	1300.322	0	0	0
317	40	N110	3462.485	2007.582	1999.836	0	0	0
318	40	Totals:	-263.978	3922.287	-0.001			
319	40	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
320	41	N23	-17.576	-131.473	1087.924	-0.096	0.032	0.038
321	41	N26	1297.034	-129.296	-775.675	0.017	-0.043	0.091
322	41	N29	-2695.189	-284.025	-1553.282	-0.024	-0.008	-0.251
323	41	N106A	-1.846	1121.491	-2214.679	0	0	0
324	41	N107A	-2285.791	1331.739	1317.612	0	0	0
325	41	N110	3474.012	2013.853	2005.679	0	0	0
326	41	Totals:	-229.355	3922.288	-132.421			
327	41	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
328	42	N23	-5.199	-127.244	999.535	-0.093	0.003	0.034
329	42	N26	1405.103	-137.326	-846.318	0.016	-0.062	0.097
330	42	N29	-2666.188	-282.001	-1542.429	-0.029	-0.005	-0.252
331	42	N106A	-0.674	1104.629	-2180.745	0	0	0
332	42	N107A	-2328.759	1356.702	1341.645	0	0	0
333	42	N110	3463.084	2007.528	1998.581	0	0	0
334	42	Totals:	-132.633	3922.288	-229.731			
335	42	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
336	43	N23	-0.655	-125.891	967.611	-0.092	0.003	0.029
337	43	N26	1522.4	-145.056	-901.852	0.022	-0.035	0.099
338	43	N29	-2584.663	-277.156	-1509.184	-0.034	0.026	-0.25
339	43	N106A	0.009	1098.598	-2168.335	0	0	0
340	43	N107A	-2370.722	1381.468	1366.625	0	0	0
341	43	N110	3433.631	1990.325	1980.297	0	0	0
342	43	Totals:	-0.001	3922.288	-264.838			
343	43	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
344	44	N23	4.341	-127.982	998.047	-0.094	0	0.024
345	44	N26	1609.027	-150.266	-934.227	0.03	-0.002	0.097
346	44	N29	-2475.216	-271.003	-1452.963	-0.038	0.044	-0.247
347	44	N106A	0.683	1105.185	-2181.865	0	0	0
348	44	N107A	-2401.166	1399.261	1385.533	0	0	0
349	44	N110	3394.322	1967.093	1956.855	0	0	0
350	44	Totals:	131.99	3922.288	-228.619			
351	44	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
352	45	N23	15.929	-132.895	1084.956	-0.098	-0.029	0.02
353	45	N26	1641.017	-151.869	-943.724	0.039	0.003	0.093
354	45	N29	-2373.092	-265.141	-1383.557	-0.038	0.019	-0.242
355	45	N106A	1.85	1122.543	-2216.798	0	0	0
356	45	N107A	-2412.141	1405.616	1392.658	0	0	0
357	45	N110	3354.68	1944.034	1934.686	0	0	0
358	45	Totals:	228.243	3922.288	-131.779			
359	45	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
360	46	N23	21.513	-139.106	1207.679	-0.102	-0.045	0.019
361	46	N26	1618.281	-149.589	-920.97	0.047	0.01	0.087
362	46	N29	-2302.92	-260.924	-1329.051	-0.036	-0.009	-0.238
363	46	N106A	2.534	1145.846	-2262.672	0	0	0
364	46	N107A	-2399.987	1398.973	1386.414	0	0	0
365	46	N110	3324.556	1927.087	1918.6	0	0	0
366	46	Totals:	263.977	3922.287	0.001			
367	46	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
368	47	N23	12.101	-145.013	1331.082	-0.107	-0.019	0.02
369	47	N26	1547.672	-143.727	-863.112	0.052	0.044	0.079
370	47	N29	-2277.565	-259.532	-1309.317	-0.032	-0.009	-0.234
371	47	N106A	1.873	1168.934	-2308.111	0	0	0
372	47	N107A	-2367.753	1380.812	1369.125	0	0	0
373	47	N110	3313.026	1920.814	1912.754	0	0	0
374	47	Totals:	229.354	3922.287	132.421			
375	47	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
376	48	N23	-0.286	-149.237	1419.468	-0.11	0.01	0.024
377	48	N26	1439.606	-135.701	-792.482	0.052	0.063	0.074
378	48	N29	-2306.56	-261.559	-1320.166	-0.027	-0.012	-0.233
379	48	N106A	0.704	1185.791	-2342.038	0	0	0
380	48	N107A	-2324.788	1355.852	1345.097	0	0	0
381	48	N110	3323.957	1927.14	1919.852	0	0	0
382	48	Totals:	132.632	3922.287	229.731			
383	48	COG (ft):	X: 0.687	Y: 1.12	Z: -0.082			
384	49	N23	1.074	-146.855	1334.27	-0.109	-0.005	0.017
385	49	N26	2130.725	-244.621	-1229.33	0.11	0	0.156
386	49	N29	-1156.347	-147.947	-669.304	0.021	0.003	-0.114
387	49	N106A	-0.018	1175.564	-2322.564	0	0	0
388	49	N107A	-2987.858	1734.993	1725.048	0	0	0
389	49	N110	2012.423	1176.152	1161.881	0	0	0
390	49	Totals:	-0.002	3547.286	0.001			
391	49	COG (ft):	X: -0.725	Y: 1.238	Z: -0.412			
392	50	N23	-0.229	-146.263	1385.331	-0.107	-0.001	0.027
393	50	N26	1648.809	-143.641	-949.498	0.029	0.003	0.09
394	50	N29	-1629.643	-179.115	-939.394	-0.003	-0.004	-0.148
395	50	N106A	-0.006	1172.183	-2315.759	0	0	0
396	50	N107A	-2451.083	1427.486	1415.132	0	0	0
397	50	N110	2432.151	1416.636	1404.188	0	0	0
398	50	Totals:	0	3547.286	0			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
399	50	COG (ft):	X: -0.042	Y: 1.238	Z: -0.412			
400	51	N23	-0.367	-180.401	1778.312	-0.133	-0.001	0.032
401	51	N26	1546.259	-136.865	-892.261	0.073	-0.001	0.063
402	51	N29	-1524.303	-179.621	-880.562	0.04	-0.001	-0.131
403	51	N106A	-0.007	1401.11	-2769.534	0	0	0
404	51	N107A	-2404.522	1404.57	1388.259	0	0	0
405	51	N110	2382.941	1392.202	1375.784	0	0	0
406	51	Totals:	0	3700.996	0			
407	51	COG (ft):	X: -0.047	Y: 1.385	Z: -0.82			
408	52	N23	-1.64	-172.39	1817.196	-0.128	0.002	0.029
409	52	N26	1270.703	-113.025	-709.869	0.074	0.034	0.044
410	52	N29	-1252.6	-153.359	-702.93	0.041	-0.033	-0.107
411	52	N106A	0	1288.169	-2546.072	0	0	0
412	52	N107A	-2084.091	1217.965	1205.105	0	0	0
413	52	N110	2067.628	1208.53	1195.592	0	0	0
414	52	Totals:	0.001	3275.89	259.021			
415	52	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
416	53	N23	-11.637	-170.235	1784.753	-0.126	0.02	0.034
417	53	N26	1186.888	-107.979	-672.036	0.067	0.018	0.044
418	53	N29	-1359.14	-159.836	-761.882	0.045	-0.037	-0.111
419	53	N106A	-0.925	1281.444	-2532.771	0	0	0
420	53	N107A	-2053.441	1199.865	1186.63	0	0	0
421	53	N110	2108.746	1232.63	1219.618	0	0	0
422	53	Totals:	-129.508	3275.89	224.312			
423	53	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
424	54	N23	-18.6	-165.251	1695.751	-0.122	0.032	0.038
425	54	N26	1151.758	-106.452	-665.735	0.06	-0.002	0.047
426	54	N29	-1462.969	-166.082	-825.502	0.046	-0.031	-0.116
427	54	N106A	-1.604	1263.633	-2497.57	0	0	0
428	54	N107A	-2042.844	1193.403	1179.445	0	0	0
429	54	N110	2149.951	1256.638	1243.12	0	0	0
430	54	Totals:	-224.308	3275.89	129.51			
431	54	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
432	55	N23	-20.665	-158.771	1574.019	-0.117	0.036	0.039
433	55	N26	1174.719	-108.854	-692.656	0.054	-0.023	0.053
434	55	N29	-1536.285	-170.425	-876.758	0.044	-0.017	-0.121
435	55	N106A	-1.856	1239.506	-2449.892	0	0	0
436	55	N107A	-2055.14	1200.309	1185.477	0	0	0
437	55	N110	2180.21	1274.125	1259.809	0	0	0
438	55	Totals:	-259.017	3275.89	-0.001			
439	55	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
440	56	N23	-17.28	-152.53	1452.182	-0.112	0.03	0.038
441	56	N26	1249.631	-114.542	-745.594	0.051	-0.037	0.059
442	56	N29	-1559.423	-171.703	-901.905	0.04	0.001	-0.124
443	56	N106A	-1.612	1215.526	-2402.513	0	0	0
444	56	N107A	-2087.036	1218.736	1203.111	0	0	0
445	56	N110	2191.411	1280.403	1265.208	0	0	0
446	56	Totals:	-224.309	3275.891	-129.511			
447	56	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
448	57	N23	-9.357	-148.202	1362.892	-0.109	0.015	0.034
449	57	N26	1356.402	-121.987	-810.354	0.051	-0.042	0.064
450	57	N29	-1526.2	-169.576	-894.21	0.034	0.019	-0.125
451	57	N106A	-0.936	1198.121	-2368.132	0	0	0
452	57	N107A	-2129.977	1243.739	1227.618	0	0	0
453	57	N110	2180.559	1273.795	1257.874	0	0	0

Node Reactions (Continued)

LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]	
454	57	Totals:	-129.509	3275.891	-224.313			
455	57	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
456	58	N23	0.985	-146.948	1330.058	-0.108	-0.004	0.028
457	58	N26	1466.443	-129.195	-869.592	0.056	-0.035	0.067
458	58	N29	-1445.513	-164.611	-855.731	0.029	0.031	-0.124
459	58	N106A	-0.011	1191.954	-2355.958	0	0	0
460	58	N107A	-2172.463	1268.623	1252.432	0	0	0
461	58	N110	2150.559	1256.068	1239.77	0	0	0
462	58	Totals:	0	3275.891	-259.021			
463	58	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
464	59	N23	10.975	-149.106	1362.5	-0.11	-0.022	0.023
465	59	N26	1550.256	-134.234	-907.423	0.062	-0.02	0.067
466	59	N29	-1338.978	-158.137	-796.774	0.025	0.035	-0.12
467	59	N106A	0.916	1198.682	-2369.262	0	0	0
468	59	N107A	-2203.106	1286.717	1270.903	0	0	0
469	59	N110	2109.445	1231.97	1215.744	0	0	0
470	59	Totals:	129.508	3275.891	-224.312			
471	59	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
472	60	N23	17.939	-154.096	1451.503	-0.114	-0.034	0.019
473	60	N26	1585.388	-135.758	-913.717	0.07	0.001	0.064
474	60	N29	-1235.153	-151.888	-733.148	0.024	0.03	-0.115
475	60	N106A	1.595	1216.497	-2404.47	0	0	0
476	60	N107A	-2213.699	1293.176	1278.083	0	0	0
477	60	N110	2068.239	1207.96	1192.238	0	0	0
478	60	Totals:	224.308	3275.891	-129.51			
479	60	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
480	61	N23	20.012	-160.579	1573.235	-0.119	-0.038	0.018
481	61	N26	1562.432	-133.359	-886.79	0.076	0.021	0.058
482	61	N29	-1161.836	-147.539	-681.892	0.026	0.016	-0.11
483	61	N106A	1.844	1240.627	-2452.151	0	0	0
484	61	N107A	-2201.409	1286.272	1272.052	0	0	0
485	61	N110	2037.973	1190.468	1175.546	0	0	0
486	61	Totals:	259.017	3275.89	0.001			
487	61	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
488	62	N23	16.634	-166.817	1695.072	-0.124	-0.031	0.019
489	62	N26	1487.521	-127.678	-833.853	0.079	0.036	0.052
490	62	N29	-1138.693	-146.257	-656.751	0.031	-0.002	-0.107
491	62	N106A	1.598	1264.605	-2499.527	0	0	0
492	62	N107A	-2169.519	1267.851	1254.422	0	0	0
493	62	N110	2026.768	1184.187	1170.148	0	0	0
494	62	Totals:	224.309	3275.89	129.511			
495	62	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
496	63	N23	8.709	-171.139	1784.362	-0.127	-0.017	0.023
497	63	N26	1380.748	-120.237	-769.101	0.078	0.04	0.047
498	63	N29	-1171.912	-148.388	-664.451	0.036	-0.02	-0.106
499	63	N106A	0.923	1282.005	-2533.901	0	0	0
500	63	N107A	-2126.581	1242.851	1229.92	0	0	0
501	63	N110	2037.622	1190.798	1177.485	0	0	0
502	63	Totals:	129.509	3275.89	224.313			
503	63	COG (ft):	X: -0.047	Y: 1.387	Z: -0.82			
504	64	N23	-1.541	-123.649	1337.167	-0.091	0.002	0.02
505	64	N26	852.852	-76.112	-468.754	0.054	0.034	0.027
506	64	N29	-840.768	-104.786	-465.023	0.031	-0.033	-0.072
507	64	N106A	0.001	909.69	-1797.881	0	0	0
508	64	N107A	-1434.018	838.252	829.802	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
509	64	N110	1423.474	832.208	823.711	0	0	0
510	64	Totals:	0.001	2275.602	259.021			
511	64	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
512	65	N23	-11.537	-121.492	1304.73	-0.09	0.02	0.025
513	65	N26	769.044	-71.054	-430.924	0.047	0.019	0.027
514	65	N29	-947.295	-111.275	-523.967	0.034	-0.037	-0.076
515	65	N106A	-0.933	902.963	-1784.581	0	0	0
516	65	N107A	-1403.372	820.147	811.32	0	0	0
517	65	N110	1464.584	856.312	847.735	0	0	0
518	65	Totals:	-129.508	2275.602	224.312			
519	65	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
520	66	N23	-18.499	-116.499	1215.74	-0.086	0.033	0.029
521	66	N26	733.917	-69.522	-424.623	0.04	-0.002	0.03
522	66	N29	-1051.11	-117.533	-587.58	0.035	-0.031	-0.081
523	66	N106A	-1.618	885.15	-1749.386	0	0	0
524	66	N107A	-1392.782	813.684	804.127	0	0	0
525	66	N110	1505.784	880.324	871.231	0	0	0
526	66	Totals:	-224.308	2275.603	129.51			
527	66	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
528	67	N23	-20.564	-110.006	1094.024	-0.081	0.036	0.03
529	67	N26	756.875	-71.929	-451.541	0.034	-0.023	0.036
530	67	N29	-1124.416	-121.886	-638.83	0.033	-0.017	-0.085
531	67	N106A	-1.871	861.018	-1701.715	0	0	0
532	67	N107A	-1405.082	820.592	810.15	0	0	0
533	67	N110	1536.041	897.813	887.911	0	0	0
534	67	Totals:	-259.017	2275.603	-0.001			
535	67	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
536	68	N23	-17.179	-103.753	972.203	-0.076	0.03	0.029
537	68	N26	831.782	-77.627	-504.475	0.031	-0.037	0.042
538	68	N29	-1147.549	-123.167	-663.975	0.029	0.001	-0.089
539	68	N106A	-1.624	837.034	-1654.343	0	0	0
540	68	N107A	-1436.982	839.024	827.779	0	0	0
541	68	N110	1547.244	904.092	893.3	0	0	0
542	68	Totals:	-224.309	2275.603	-129.511			
543	68	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
544	69	N23	-9.256	-99.415	882.923	-0.073	0.015	0.025
545	69	N26	938.544	-85.088	-569.229	0.031	-0.042	0.048
546	69	N29	-1114.329	-121.037	-656.281	0.023	0.019	-0.09
547	69	N106A	-0.941	819.627	-1619.968	0	0	0
548	69	N107A	-1479.923	864.035	852.283	0	0	0
549	69	N110	1536.397	897.482	885.959	0	0	0
550	69	Totals:	-129.509	2275.604	-224.313			
551	69	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
552	70	N23	1.085	-98.157	850.091	-0.072	-0.003	0.019
553	70	N26	1048.576	-92.311	-628.461	0.036	-0.035	0.051
554	70	N29	-1033.652	-116.064	-617.806	0.018	0.032	-0.088
555	70	N106A	-0.006	813.459	-1607.795	0	0	0
556	70	N107A	-1522.407	888.925	877.099	0	0	0
557	70	N110	1506.404	879.752	867.852	0	0	0
558	70	Totals:	0	2275.604	-259.021			
559	70	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
560	71	N23	11.074	-100.318	882.527	-0.074	-0.021	0.014
561	71	N26	1132.382	-97.362	-666.289	0.043	-0.02	0.05
562	71	N29	-927.131	-109.578	-558.856	0.015	0.036	-0.085
563	71	N106A	0.929	820.188	-1621.098	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
564	71	N107A	-1553.044	907.024	895.576	0	0	0
565	71	N110	1465.298	855.65	843.828	0	0	0
566	71	Totals:	129.508	2275.604	-224.312			
567	71	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
568	72	N23	18.038	-105.317	971.518	-0.078	-0.034	0.01
569	72	N26	1167.511	-98.891	-672.582	0.05	0.001	0.047
570	72	N29	-823.32	-103.316	-495.238	0.014	0.03	-0.08
571	72	N106A	1.615	838.006	-1656.3	0	0	0
572	72	N107A	-1563.632	913.485	902.765	0	0	0
573	72	N110	1424.097	831.636	820.328	0	0	0
574	72	Totals:	224.308	2275.604	-129.51			
575	72	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
576	73	N23	20.11	-111.812	1093.234	-0.083	-0.037	0.009
577	73	N26	1144.557	-96.488	-645.658	0.056	0.022	0.041
578	73	N29	-750.014	-98.958	-443.988	0.015	0.016	-0.075
579	73	N106A	1.866	862.14	-1703.975	0	0	0
580	73	N107A	-1551.336	906.579	896.742	0	0	0
581	73	N110	1393.834	814.142	803.645	0	0	0
582	73	Totals:	259.017	2275.603	0.001			
583	73	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
584	74	N23	16.732	-118.063	1215.056	-0.088	-0.031	0.01
585	74	N26	1069.652	-90.797	-592.726	0.059	0.036	0.035
586	74	N29	-726.875	-97.673	-418.85	0.02	-0.002	-0.072
587	74	N106A	1.616	886.121	-1751.343	0	0	0
588	74	N107A	-1519.444	888.153	879.118	0	0	0
589	74	N110	1382.627	807.861	798.256	0	0	0
590	74	Totals:	224.309	2275.603	129.511			
591	74	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			
592	75	N23	8.808	-122.394	1304.335	-0.091	-0.017	0.014
593	75	N26	962.888	-83.34	-527.98	0.058	0.041	0.03
594	75	N29	-760.091	-99.806	-426.549	0.025	-0.02	-0.071
595	75	N106A	0.934	903.524	-1785.712	0	0	0
596	75	N107A	-1476.506	863.145	854.618	0	0	0
597	75	N110	1393.475	814.473	805.6	0	0	0
598	75	Totals:	129.509	2275.603	224.313			
599	75	COG (ft):	X: -0.047	Y: 1.382	Z: -0.82			

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

Member	Shape	Code Check	Loc [ft]	LC Shear	Check	Loc [ft]	Dir LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn	
0	MP1A	PIPE 2.0	0.212	4.833	4	0.074	4.833	5	14916.096	32130	1.872	1.872	1	H1-1b
1	M7	HSS3.5X3.5X4	0.165	12.917	13	0.051	12.917	y	2647385.783	120474	12.075	12.075	3	H1-1b
2	M8	HSS3.5X3.5X4	0.165	12.917	21	0.052	0	z	247385.783	120474	12.075	12.075	3	H1-1b
3	M9	HSS3.5X3.5X4	0.165	12.917	17	0.052	0	z	1047385.783	120474	12.075	12.075	3	H1-1b
4	M16	HSS3.5X3.5X4	0.243	2.26	16	0.081	3.956	y	1586100.373	120474	12.075	12.075	2.658	H1-1b
5	M17	HSS3.5X3.5X4	0.241	2.26	24	0.08	3.956	y	2286100.373	120474	12.075	12.075	2.688	H1-1b
6	M18	HSS3.5X3.5X4	0.243	2.26	20	0.081	3.956	y	1986100.373	120474	12.075	12.075	2.66	H1-1b
7	M19	L2X2X4	0.031	0	14	0.005	0	y	1729529.179	30585.6	0.691	1.577	1.5	H2-1
8	M20	L2X2X4	0.034	0	14	0.005	0	y	1429529.179	30585.6	0.691	1.577	1.5	H2-1
9	M21	L2X2X4	0.033	0	14	0.005	0	y	1929529.179	30585.6	0.691	1.577	1.5	H2-1
10	M22	L2X2X4	0.028	0	14	0.004	0	y	1529529.179	30585.6	0.691	1.577	1.5	H2-1
11	M23	PIPE 2.0	0.142	2.75	12	0.016	2.75	12	29344.85	32130	1.872	1.872	1	H1-1b
12	MP2A	PIPE 2.0	0.275	4.833	4	0.085	4.833	4	14916.096	32130	1.872	1.872	1	H1-1b
13	MP3A	PIPE 2.0	0.302	3.75	10	0.063	3.75	10	20866.733	32130	1.872	1.872	1	H1-1b
14	MP4A	PIPE 2.0	0.308	4.833	10	0.056	4.833	9	14916.096	32130	1.872	1.872	1	H1-1b
15	MP5A	PIPE 2.0	0.203	4.833	10	0.06	4.417	11	14916.096	32130	1.872	1.872	1	H1-1b

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

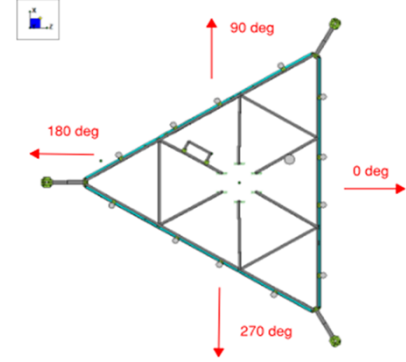
Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*	Pnc [lb]	phi*	Pnt [lb]	phi*	Mn y-y [k-ft]	phi*	Mn z-z [k-ft]	Cb	Eqn
16	MP1C	PIPE 2.0	0.212	4.833	12	0.074	4.833	1	14916.096	32130	1.872	1.872	1	H1-1b						
17	MP2C	PIPE 2.0	0.289	2.333	10	0.085	4.833	12	14916.096	32130	1.872	1.872	1	H1-1b						
18	MP3C	PIPE 2.0	0.302	3.75	6	0.063	3.75	6	20866.733	32130	1.872	1.872	1	H1-1b						
19	MP4C	PIPE 2.0	0.309	4.833	6	0.056	4.833	5	14916.096	32130	1.872	1.872	1	H1-1b						
20	MP5C	PIPE 2.0	0.204	4.833	6	0.06	4.417	7	14916.096	32130	1.872	1.872	1	H1-1b						
21	MP1B	PIPE 2.0	0.224	2.333	6	0.074	4.833	9	14916.096	32130	1.872	1.872	1	H1-1b						
22	MP2B	PIPE 2.0	0.295	2.333	10	0.085	4.833	8	14916.096	32130	1.872	1.872	1	H1-1b						
23	MP3B	PIPE 2.0	0.303	3.75	2	0.063	3.75	2	20866.733	32130	1.872	1.872	1	H1-1b						
24	MP4B	PIPE 2.0	0.309	4.833	2	0.057	4.833	1	14916.096	32130	1.872	1.872	1	H1-1b						
25	MP5B	PIPE 2.0	0.204	4.833	2	0.06	4.417	3	14916.096	32130	1.872	1.872	1	H1-1b						
26	M48	L2X2X4	0.031	0	22	0.005	0	y	22	29529.179	30585.6	0.691	1.577	1.5	H2-1					
27	M49	L2X2X4	0.034	0	22	0.005	0	y	16	29529.179	30585.6	0.691	1.577	1.5	H2-1					
28	M50	L2X2X4	0.033	0	22	0.005	0	y	15	29529.179	30585.6	0.691	1.577	1.5	H2-1					
29	M51	L2X2X4	0.028	0	22	0.004	0	y	23	29529.179	30585.6	0.691	1.577	1.5	H2-1					
30	M52	L2X2X4	0.022	0	18	0.005	0	y	24	29529.179	30585.6	0.691	1.577	1.5	H2-1					
31	M53	L2X2X4	0.04	0	18	0.005	0	y	24	29529.179	30585.6	0.691	1.577	1.5	H2-1					
32	M54	L2X2X4	0.035	0	18	0.005	0	y	23	29529.179	30585.6	0.691	1.577	1.5	H2-1					
33	M55	L2X2X4	0.026	0	18	0.004	0	y	19	29529.179	30585.6	0.691	1.577	1.5	H2-1					
34	M56	LL3X3X3X3	0.136	5.059	13	0.004	5.059	z	4	47647.535	70632	5.543	3.751	1	H1-1b*					
35	M57	LL3X3X3X3	0.138	5.059	21	0.004	5.059	z	12	47647.535	70632	5.543	3.751	1	H1-1b*					
36	M58	LL3X3X3X3	0.135	5.059	17	0.004	5.059	z	8	47647.535	70632	5.543	3.751	1	H1-1b*					
37	M60	PIPE 2.5	0.139	1.302	5	0.08	11.198	6	14559.568	50715	3.596	3.596	1	H1-1b						
38	M75	PIPE 2.5	0.139	1.302	1	0.08	11.198	2	14559.568	50715	3.596	3.596	1	H1-1b						
39	M76	PIPE 2.5	0.138	1.302	9	0.08	11.198	10	14559.568	50715	3.596	3.596	1	H1-1b						
40	M83	L3X3X4	0.292	0	9	0.039	0	y	9	44401.298	46656	1.688	3.756	1.5	H2-1					
41	M84	L3X3X4	0.295	0	5	0.039	0	y	5	44401.298	46656	1.688	3.756	1.5	H2-1					
42	M85	L3X3X4	0.293	0	1	0.039	0	y	1	44401.298	46656	1.688	3.756	1.5	H2-1					

I. Mount-to-Tower Connection Check

Custom Orientation Required

Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N23	180
N29	60
N26	300



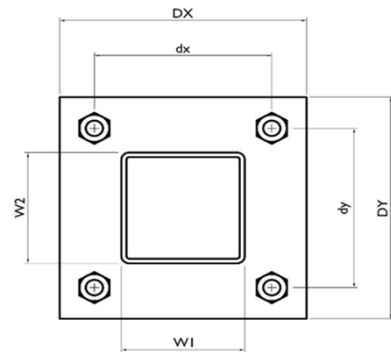
Tower Connection Bolt Checks

Yes

Bolt Orientation

Parallel

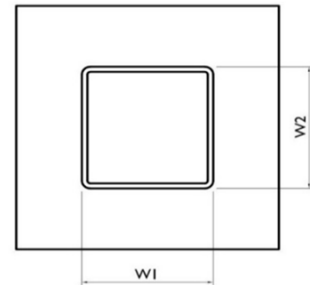
Bolt Quantity per Reaction:	4
d_x (in) (Delta X of typ. bolt config. sketch) :	3
d_y (in) (Delta Y of typ. bolt config. sketch) :	7
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	2.8
Required Shear Strength / bolt (kips):	0.4
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	13.4%



Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	6
Plate Height, D_y (in):	10
W1(in):	3.5
W2 (in):	3.5
Member Thickness (in):	0.25
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.5
Length of Yield Line, L_y (in):	4.76
Bolt Eccentricity, e (in):	1.69
M_u (kip-in):	4.69
$\Phi * M_n$ (kip-in):	9.65
Plate Bending Utilization:	48.6%



Tower Connection Weld Checks

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

Yes
Rectangle
None
4
3.5
3.5
14.00
16.33
16.33
57.17
2
2
0.73
5.57
13.0%

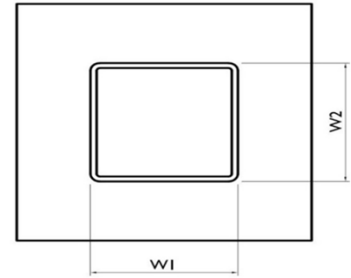
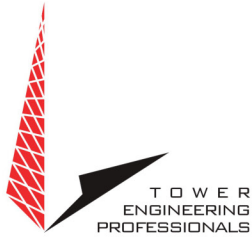


EXHIBIT 5





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

Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:

411179

Site Name:

Colchester South CT

Location:

Colchester, Connecticut

Tenants:

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

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

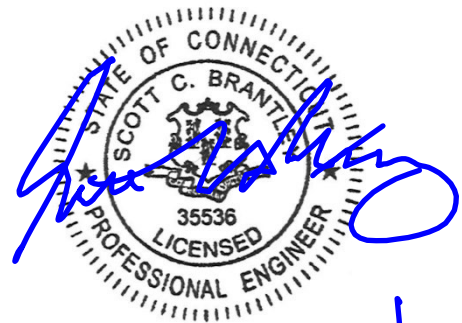
February 29th, 2024

68977 P-421192

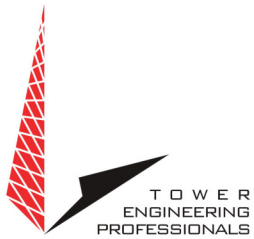
Prepared By:

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

Approved By:



03/04/24



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Contents

DISCLAIMER NOTICE	3
INTRODUCTION	4
SITE AND FACILITY CONSIDERATIONS.....	4
POWER DENSITY CALCULATIONS.....	4
SITE MITIGATION & CONTROL	5
COMPLIANCE DETERMINATION.....	5
APPENDIX 1 SITE PHOTOS	6
APPENDIX 2 ANTENNA INVENTORY	7
APPENDIX 3.1 MPE LIMIT STUDY	8
APPENDIX 3.2 MPE LIMIT STUDY	9
APPENDIX 4 INFORMATION PERTAINING TO MPE STUDIES	10
APPENDIX 5 MPE STANDARDS METHODOLOGY	12



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Non-Ionizing Electromagnetic Radiation (NIER) Study

411179 Colchester South CT
Colchester, 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.

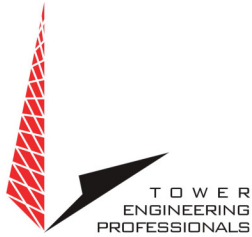
SITE AND FACILITY CONSIDERATIONS

Site 411179 Colchester South CT is located at 856 Middletown Rd., in Colchester, Connecticut at coordinates 41.836606°, -72.254976°. The support structure is a 181' 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 100' from the base of the tower with a height of 6' above ground level was used, beyond 100' the MPE levels become *di minimus*. This study utilized FCC recognized and accepted software programs using the maximum ERP levels for the antenna models provided by ATC. Diagrams depicting the predicted spatial average power density level at any specific location may be found in Appendix 3, MPE Limit Study. A discussion regarding the FCC limits may be found in Appendix 4, Information Pertaining to MPE Studies. Study methodology describing Non-ionizing Radiation Prediction Models used in this study may be found in Appendix 5, MPE Standards Methodology.



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

- ATC furnished data and does not include other unidentified communication facilities.
- Load List at 411179 Colchester South CT.RF NIER Study 02/16/24.
- 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.

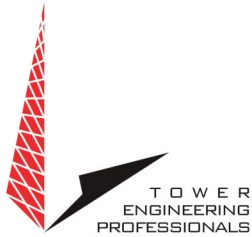
COMPLIANCE DETERMINATION

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

APPENDIX 1 Site Photos



Aerial View of Site

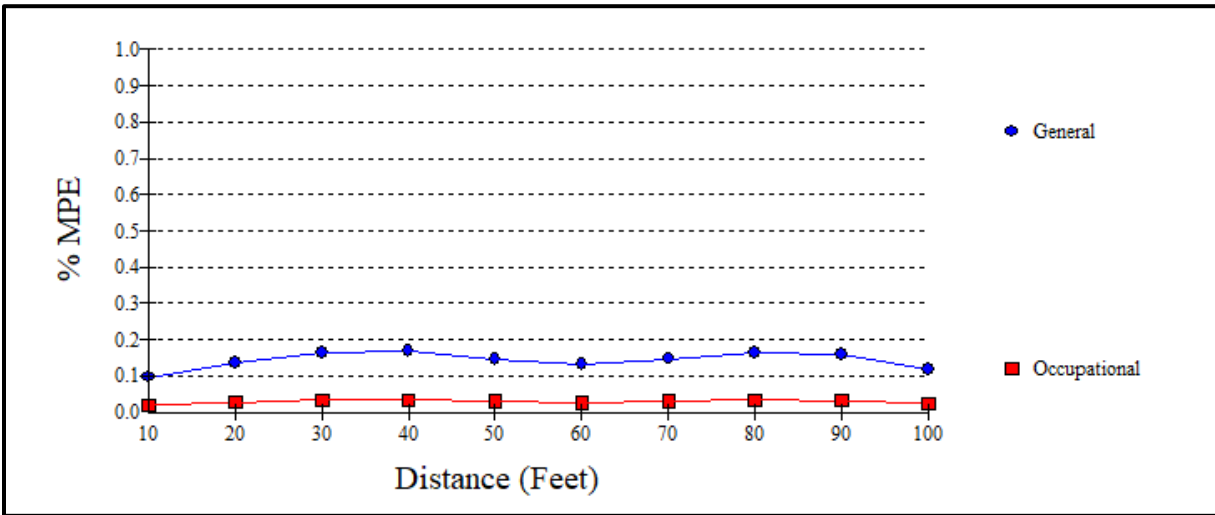


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Appendix 2 Antenna Inventory

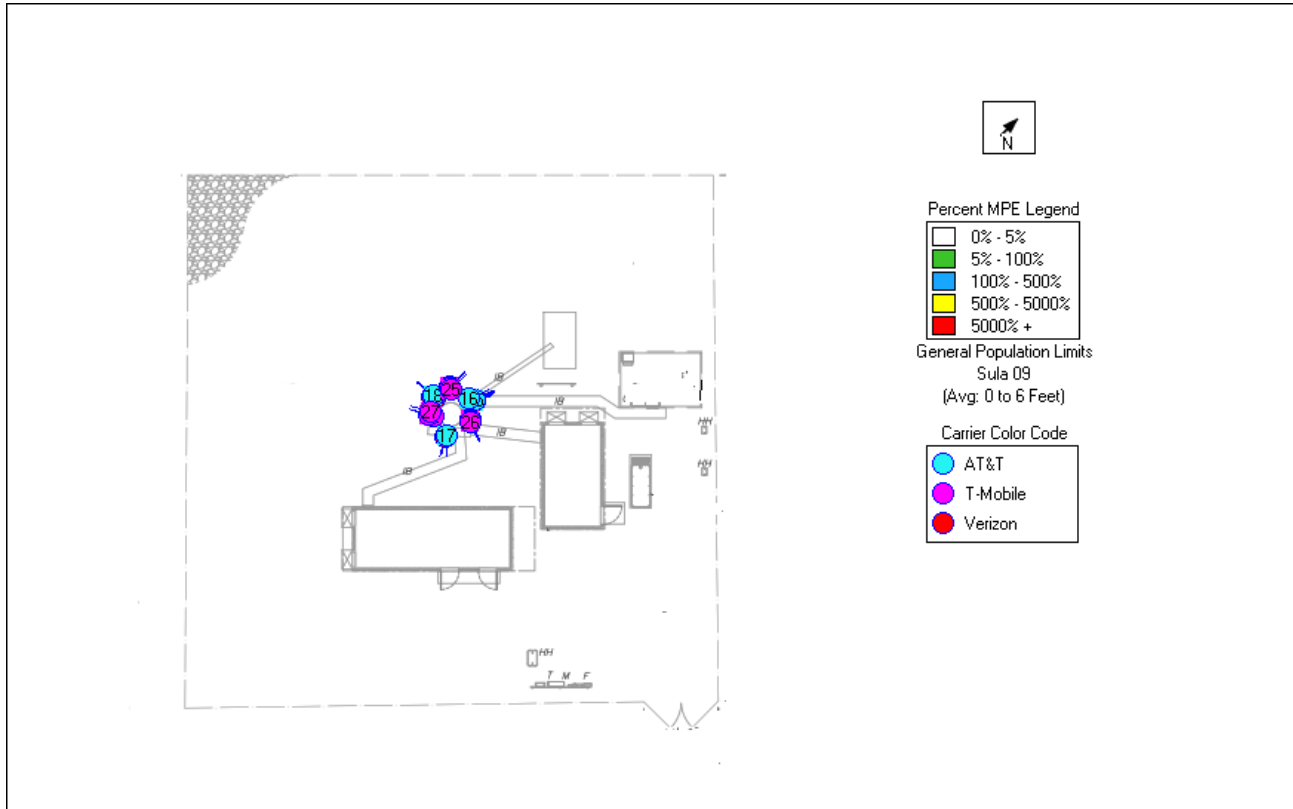
411179 Colchester South CT							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	Verizon	JMA	MX06FRO660-03	700/800/1900/2100	030	40000	180.0
2	Verizon	JMA	MX06FRO660-03	700/800/1900/2100	150	40000	180.0
3	Verizon	JMA	MX06FRO660-03	700/800/1900/2100	270	40000	180.0
4	Verizon	JMA	MX06FRO660-03	700/800/1900/2100	030	40000	180.0
5	Verizon	JMA	MX06FRO660-03	700/800/1900/2100	150	40000	180.0
6	Verizon	JMA	MX06FRO660-03	700/800/1900/2100	270	40000	180.0
7	Verizon	Samsung	MT6413-77A	3700-3900	030	18286	180.0
8	Verizon	Samsung	MT6413-77A	3700-3900	150	18286	180.0
9	Verizon	Samsung	MT6413-77A	3700-3900	270	18286	180.0
10	AT&T	Scala	80010966	700/800/1900/2100	023	63231	160.0
11	AT&T	Scala	80010966	700/800/1900/2100	023	63231	160.0
12	AT&T	Scala	80010966	700/800/1900/2100	023	63231	160.0
13	AT&T	Scala	80010966	700/800/1900/2100	023	63231	160.0
14	AT&T	Scala	80010964	700/800/1900/2100	023	63231	160.0
15	AT&T	Scala	80010964	700/800/1900/2100	023	63231	160.0
16	AT&T	Allgon	7770	700/800/1900	023	10249	160.0
17	AT&T	Allgon	7770	700/800/1900	153	10249	160.0
18	AT&T	Allgon	7770	700/800/1900	263	10249	160.0
19	T-Mobile	Ericsson	Air6419 B41	2500	000	14356	145.0
20	T-Mobile	Ericsson	Air6419 B41	2500	110	14356	145.0
21	T-Mobile	Ericsson	Air6419 B41	2500	240	14356	145.0
22	T-Mobile	JMA	APXVAARR24	600/700	000	12222	145.0
23	T-Mobile	JMA	APXVAARR24	600/700	110	12222	145.0
24	T-Mobile	JMA	APXVAARR24	600/700	240	12222	145.0
25	T-Mobile	Commscope	VV-65A-R1B	1900/2100	000	25027	145.0
26	T-Mobile	Commscope	VV-65A-R1B	1900/2100	110	25027	145.0
27	T-Mobile	Commscope	VV-65A-R1B	1900/2100	240	25027	145.0

Appendix 3.1 MPE Limit Study



Maximum Power Density (@40'):	0.00011 mW/cm ²
General Population MPE (@40'):	0.1683%
Occupational MPE (@40'):	0.0337%

Appendix 3.2 MPE Limit Study





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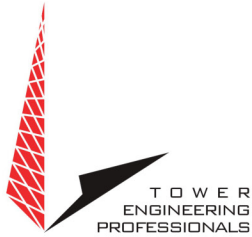
Appendix 4 Information Pertaining to MPE Studies

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.



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

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

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

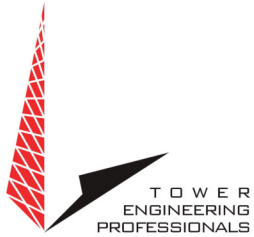


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Appendix 5 MPE Standards Methodology

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.



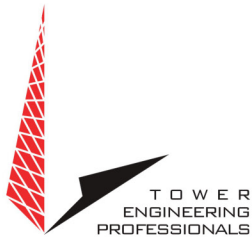
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The FCC's limits for exposure at different frequencies are shown in the following Tables.

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.



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

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

Cylindrical Model (Near Field Predictions)

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

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

Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length



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

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

Where:

S = Power Density

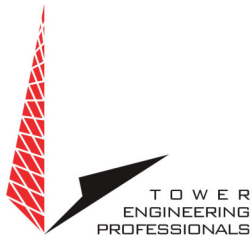
θ_{BW} = Beam width of antenna in degrees (3 dB half-power point)

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

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



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Spherical Model (Far Field Predictions)

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

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

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

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

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

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

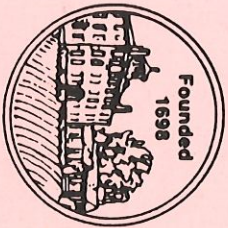
R = Distance from the antenna

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

EXHIBIT 6



TOWN OF COLCHESTER
CONNECTICUT



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Building Zone R-60 Map Aur-13 Lot 013 Date March 17 2004

Under the authority contained in Section 118 O, Basic Building Code and Section 3 of the Colchester Zoning Regulations this Certificate of Use and Occupancy is to certify that the structure at _____

265 Mill Hill Farm Rd

Colchester, Connecticut the owner of record of which on this date is _____

Joseph M Love 181119th St. Colchester

Permit No. 03-10126, dated 3-5-03 has been inspected and has been found to conform substantially to the requirements of the Basic Building Code and to the Zoning Regulations of the Town of Colchester. It is approved for use as stated hereinafter.

Use Group U1 Fire Resistance Grading 0

Maximum live load:

First floor _____ lbs/Sq. Ft.; Second floor _____ lbs/Sq. Ft.; Third floor _____ lbs/Sq. Ft.

To be occupied and used as Family Supportive Therapeutic Residential
Special conditions of the permit _____

BUILDING OFFICIAL

NOTICE: If this certificate is lost or destroyed a duplicate should be obtained at once from the Building Department. Any change or extension of use herein approved requires a new Certificate of Use and Occupancy. Copies of this certificate will be issued by the Building Department for one dollar each.

WHITE: Builder CANARY: Assessor PINK: File

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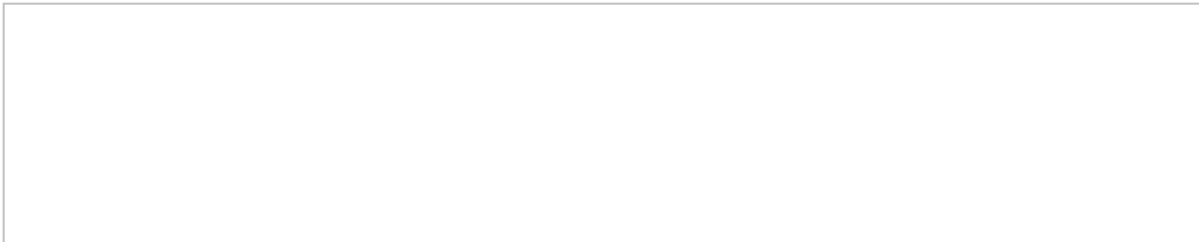


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UPS Service:	UPS Ground
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