



December 20, 2024

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification // Site: Vernon 3 CT (ATC: 302529)
777 Talcotville Road, Vernon Rockville, CT 06066
41.86345278° N, 72.48328333° W

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains fifteen (15) antenna at the 150-ft level on the existing 160ft Tower, located at 777 Talcotville Road, Vernon, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation mount modifications, four (4) antennas, and (1) OVP on Verizon Wireless existing antenna platform.

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 Vernon's Chief Elected Official and Land Use Officer.

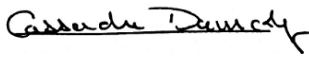
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated December 18, 2024, by A.T Engineering Services, LLC, a structural analysis dated August 27, 2024, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated March 27, 2024, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated April 29, 2024, 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,

A handwritten signature in dark ink, appearing to read "Cassandra Darmody", followed by a horizontal line.

Cassandra Darmody
Agent for American Tower
c/o Pyramid Network Services, LLC
6615 Towpath Road
East Syracuse, NY 13057
Cell (315) 569-9241
Fax (315) 445-0653

cc:

Daniel A. Champagne – Mayor – Chief Elected Official
Vernon Town Hall, Third Floor
14 Park Place
Vernon, CT 06066

Ashley Stephens– Town Planner - as P&Z official
Planning and Development
55 West Main Street, 2nd Floor
Vernon, CT 06066

American Tower – as the tower owner
10 Presidential Way
Woburn, MA 01801

777 Realty LLC – as ground owner
777 Talcottville Road
Vernon CT 06066

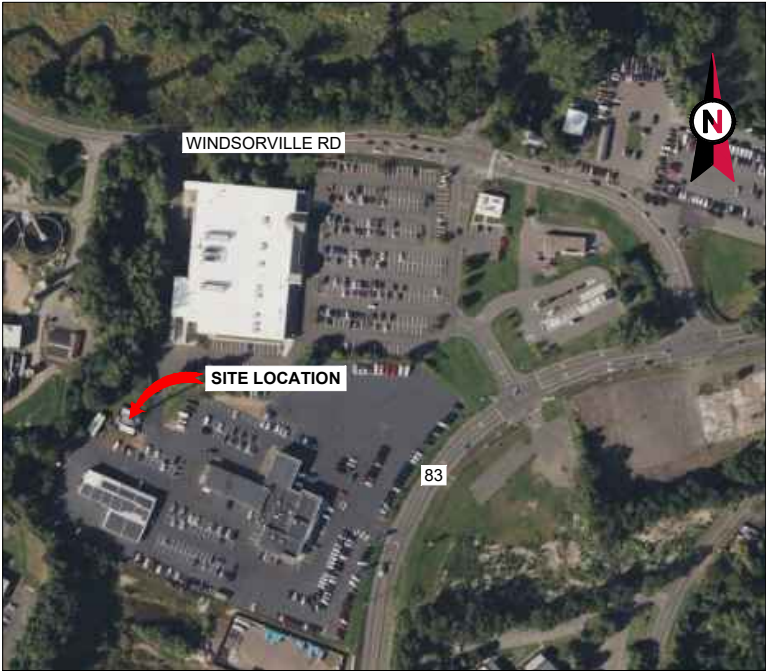


VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: VERNON CT 6
ATC SITE NUMBER: 302529
VERIZON SITE NAME: VERNON 3 CT
VERIZON SITE NUMBER: 5000243787
VERIZON FUZE PID: 17288076
SITE ADDRESS: 777 TALCOTVILLE ROAD
VERNON ROCKVILLE,CT 06066



LOCATION MAP

VERIZON AMENDMENT DRAWINGS

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2020 NFPA 70, NATIONAL ELECTRIC CODE (NEC) 2. 2022 CONNECTICUT STATE BUILDING CODE 3. 2021 INTERNATIONAL BUILDING CODE (IBC) <u>DESIGN CRITERIA FROM TOWER STRUCTUAL ANALYSIS:</u> BASIC WIND SPEED: 118 MPH (3-SECOND GUST) BASIC WIND SPEED W/ ICE: 50 MPH (3-SECOND GUST) W/ 1.50" RADIAL ICE CONCURRENT CODE(S): ANSI/TIA-222-H / 2021 IBC / 2022 CONNECTICUT STATE BUILDING CODE EXPOSURE CATEGORY: B RISK CATEGORY: II TOPO FACTOR PROCEDURE: METHOD 1 TOPOGRAPHIC CATEGORY: 1 SPECTRAL RESPONSE: S_B=0.18, S₁=0.06 SITE CLASS: D - STIFF SOIL - DEFAULT INFORMATION TAKEN FROM STRUCTURAL ANALYSIS COMPLETED BY ATC, DATED 04/11/24.	<u>SITE ADDRESS:</u> 777 TALCOTVILLE ROAD VERNON ROCKVILLE,CT 06066 COUNTY: TOLLAND <u>REGISTERED COORDINATES:</u> LATITUDE: 41.86345278 41° 51' 48.43" N LONGITUDE: -72.48328333 72° 28' 59.82" W GROUND ELEVATION: 236' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: REMOVE (3) ANTENNA(S) AND (2) 1-5/8" COAX CABLE(S) INSTALL MOUNT MODIFICATIONS, (4) ANTENNA(S), (1) OVP(S) AND (1) 1-5/8" HYBRIFLEX CABLE(S) EXISTING (12) ANTENNA(S), (6) RRH(S), (2) OVP(S), (4) FILTER(S), (10) 1-5/8" COAX AND (2) 1-5/8" HYBRIFLEX CABLE(S) TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
			G-001	TITLE SHEET	1	12/17/24	LLR
			G-002	GENERAL NOTES	0	10/21/24	LLR
			C-101	DETAILED SITE PLAN	0	10/21/24	LLR
			C-201	TOWER ELEVATION	1	12/17/24	LLR
			C-401	ANTENNA INFORMATION & SCHEDULE	1	12/17/24	LLR
			C-501	CONSTRUCTION DETAILS	1	12/17/24	LLR
			E-501	GROUNDING DETAILS	0	10/21/24	LLR
				SUPPLEMENTAL SHEETS (1 PAGE)			



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	LLR	10/21/24
1	TOWER LAYOUT	LLR	12/17/24

ATC SITE NUMBER:
302529
ATC SITE NAME:
VERNON CT 6
VERIZON SITE NAME:
VERNON 3 CT
SITE ADDRESS:
777 TALCOTVILLE ROAD
VERNON ROCKVILLE,CT 06066





ATC JOB NO:	14846738_G0
CUSTOMER ID:	VERNON 3 CT
CUSTOMER #:	5000243787

TITLE SHEET

SHEET NUMBER: G-001	REVISION: 1
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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 ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4.

CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6.

ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7.

DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8.

DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10.

CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11.

CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12.

INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13.

EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14.

CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15.

ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16.

WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17.

CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18.

CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19.

CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20.

CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21.

PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22.

PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23.

CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24.

CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25.

ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27.

CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28.

WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29.

COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30.

CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
31.

THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
32.

ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33.

IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
34.

VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35.

VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

- B.

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

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1.

WORK INCLUDED:

A.

ANTENNA AND COAXIAL/HYBRID CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.

B.

INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.

C.

INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D.

INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.

E.

INSTALL COAXIAL/HYBRID CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL/HYBRID CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
2.

ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:

A.

ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.

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



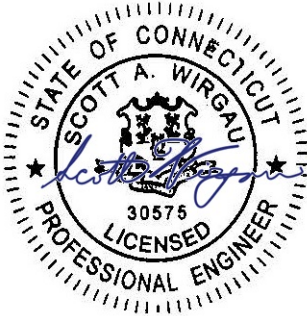
AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

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	LLR	10/21/24

ATC SITE NUMBER:
302529
ATC SITE NAME:
VERNON CT 6
VERIZON SITE NAME:
VERNON 3 CT
SITE ADDRESS:
777 TALCOTVILLE ROAD
VERNON ROCKVILLE,CT 06066

SEAL:



Digitally Signed: 2024-12-18



ATC JOB NO:	14846738_G0
CUSTOMER ID:	VERNON 3 CT
CUSTOMER #:	5000243787

GENERAL NOTES

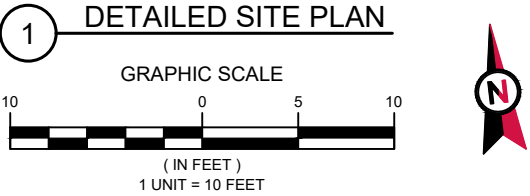
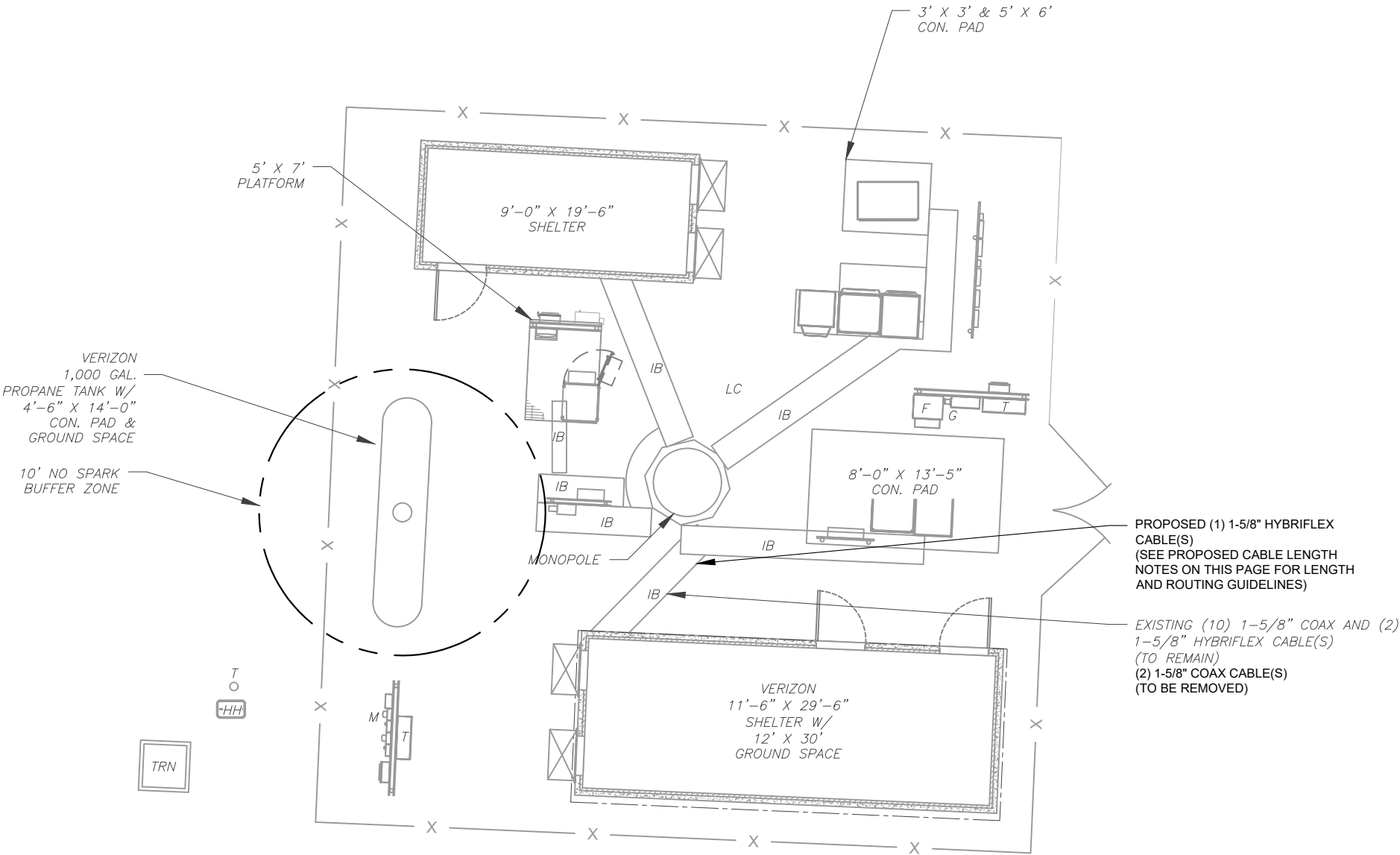
SHEET NUMBER: G-002	REVISION: 0
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SITE PLAN NOTES:

1. 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.
2. 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.
3. NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT.

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

- PROPOSED CABLE NOTES:**
1. ESTIMATED LENGTH OF PROPOSED CABLE IS **197'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.

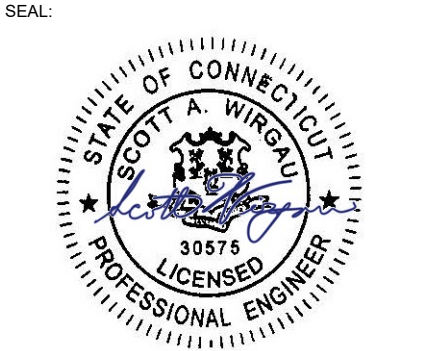


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VERIZON SITE NAME:
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SITE ADDRESS:
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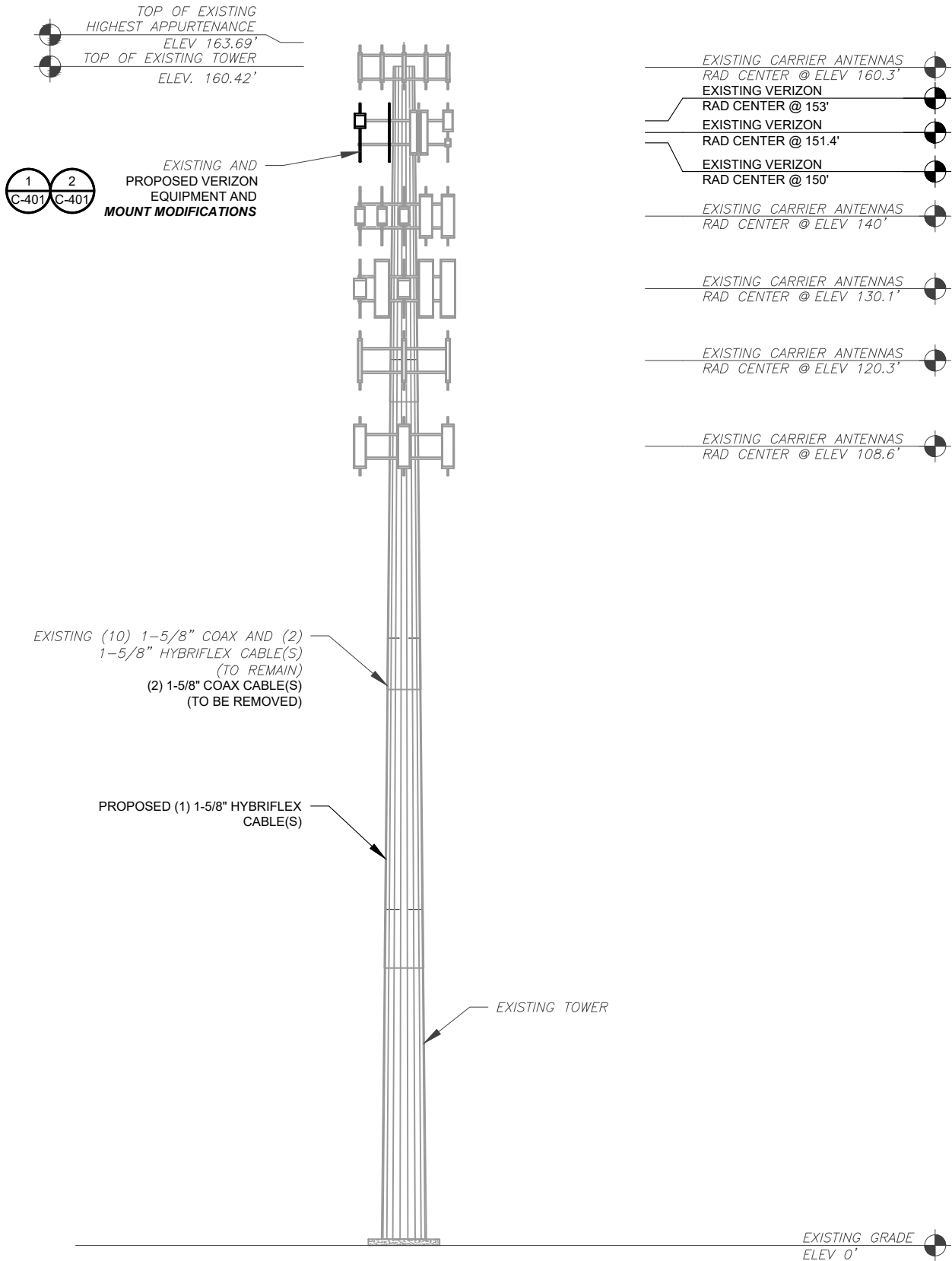
Digitally Signed: 2024-12-18

verizon	
ATC JOB NO:	14846738_G0
CUSTOMER ID:	VERNON 3 CT
CUSTOMER #:	5000243787

DETAILED SITE PLAN

SHEET NUMBER: C-101	REVISION: 0
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FAA REGISTERED HEIGHT: 164' AGL



1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN CT, DATED 11/11/24, THE EXISTING MOUNT **MUST BE MODIFIED** TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



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PHONE: (919) 468-0112
PEC.0001553

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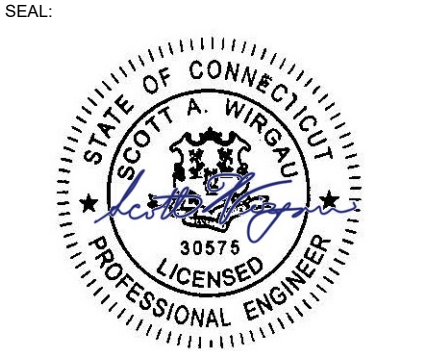
REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	10/21/24
1	TOWER LAYOUT	LLR	12/17/24

ATC SITE NUMBER:
302529

ATC SITE NAME:
VERNON CT 6

VERIZON SITE NAME:
VERNON 3 CT

SITE ADDRESS:
777 TALCOTVILLE ROAD
VERNON ROCKVILLE,CT 06066



Digitally Signed: 2024-12-18



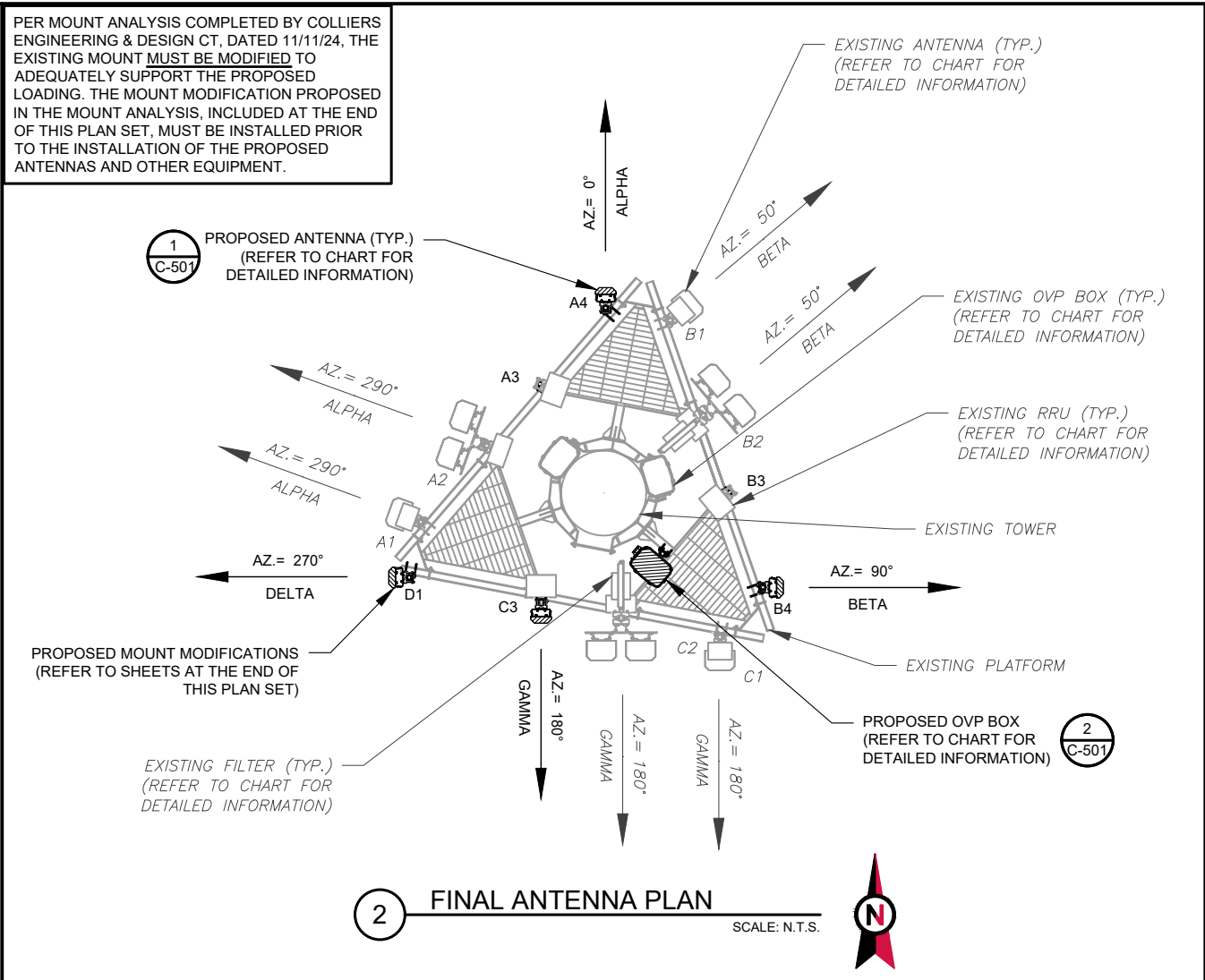
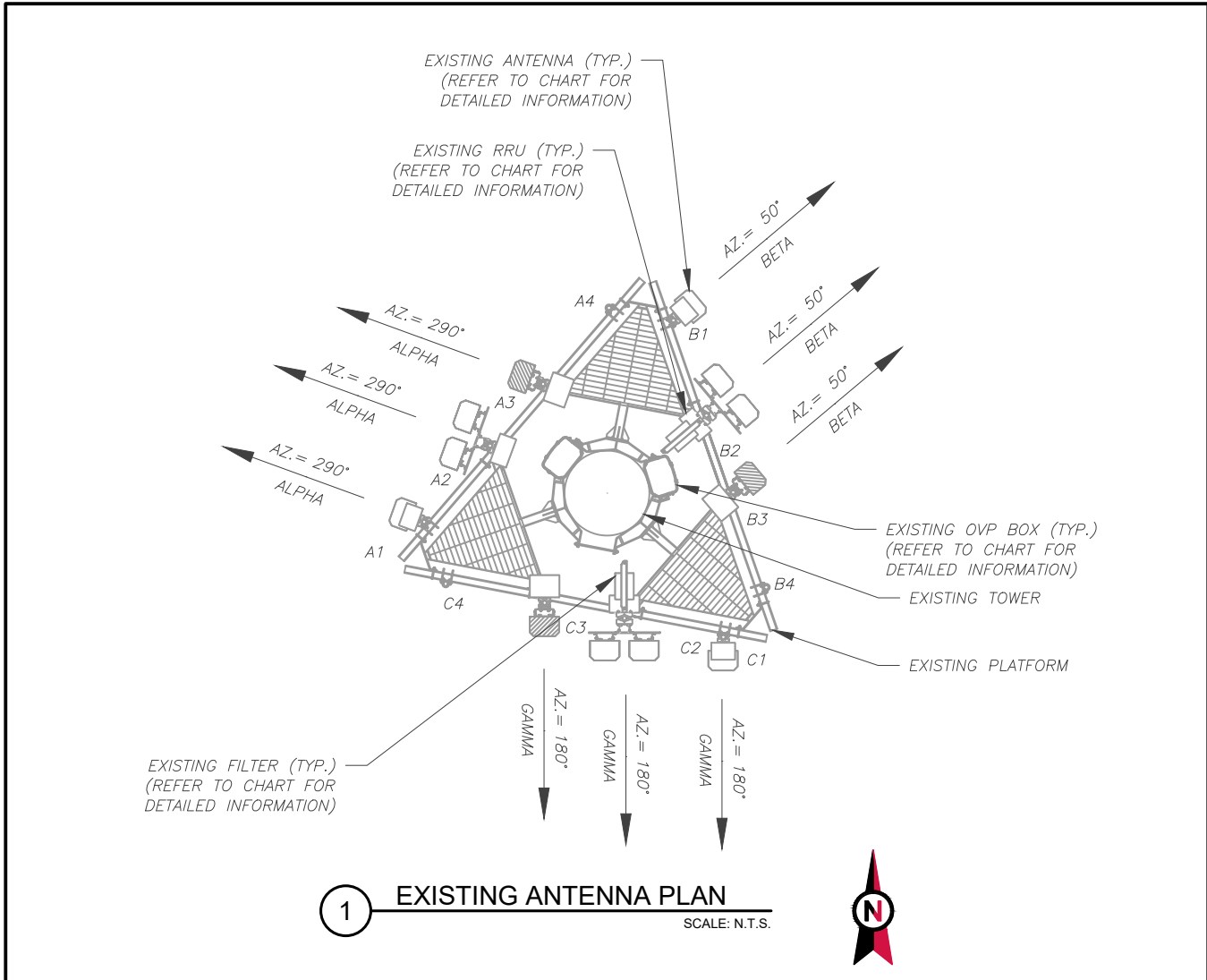
ATC JOB NO:	14846738_G0
CUSTOMER ID:	VERNON 3 CT
CUSTOMER #:	5000243787

TOWER ELEVATION

SHEET NUMBER: C-201	REVISION: 1
-------------------------------	-----------------------

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.
 - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
 - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	150' 153'	290°	A1	XXDWMM-12.5-65 MT6407-77A	CBRS LTE L-SUB6 5G	RMN RMN	-	-
	151.4'		A2	(2) SBNHH-1D65B	700/850/1900/AWS LTE & 850 5G	RMN	B2/B66A RRH-BR049	RMN
	151.4'		A3	LNX-6514DS-A1M	-	RMV	B5/B13 RRH-BR04C	RMN
	151.4'		A4	-	-	-	-	-
BETA	150' 153'	50°	B1	XXDWMM-12.5-65 MT6407-77A	CBRS LTE L-SUB6 5G	RMN RMN	-	-
	151.4'		B2	(2) SBNHH-1D65B	700/850/1900/AWS LTE & 850 5G	RMN	(2) BSF0020F3V1-1 B2/B66A RRH-BR049	RMN
	151.4'		B3	LNX-6514DS-A1M	-	RMV	B5/B13 RRH-BR04C	RMN
	151.4'		B4	-	-	-	-	-
GAMMA	150' 153'	180°	C1	XXDWMM-12.5-65 MT6407-77A	CBRS LTE L-SUB6 5G	RMN RMN	-	-
	151.4'		C2	(2) SBNHH-1D65B	700/850/1900/AWS LTE & 850 5G	RMN	(2) BSF0020F3V1-1 B2/B66A RRH-BR049	RMN RMN
	151.4'		C3	LNX-6514DS-A1M	-	RMV	B5/B13 RRH-BR04C	RMN
	151.4'		C4	-	-	-	-	-

- NOTES
1. GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.

2. GC TO CAP ALL UNUSED PORTS.

3. GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- STATUS ABBREVIATIONS
- RMV: TO BE REMOVED

RMN: TO REMAIN

REL: TO BE RELOCATED

ADD: TO BE ADDED

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	150' 153'	290°	A1	XXDWMM-12.5-65 MT6407-77A	CBRS LTE L-SUB6 5G	RMN RMN	-	-
	151.4'	290°	A2	(2) SBNHH-1D65B	700/850/1900/AWS LTE & 850 5G	RMN	B2/B66A RRH-BR049	RMN
	151.4'	290°	A3	-	-	-	B5/B13 RRH-BR04C	RMN
	153'	0°	A4	39GHZ VECTASTAR NR GNB	-	ADD	-	-
BETA	150' 153'	50°	B1	XXDWMM-12.5-65 MT6407-77A	CBRS LTE L-SUB6 5G	RMN RMN	-	-
	151.4'	50°	B2	(2) SBNHH-1D65B	700/850/1900/AWS LTE & 850 5G	RMN	(2) BSF0020F3V1-1 B2/B66A RRH-BR049	RMN RMN
	151.4'	50°	B3	-	-	-	B5/B13 RRH-BR04C	RMN
	153'	90°	B4	39GHZ VECTASTAR NR GNB	-	ADD	-	-
GAMMA	150' 153'	180°	C1	XXDWMM-12.5-65 MT6407-77A	CBRS LTE L-SUB6 5G	RMN RMN	-	-
	151.4'	180°	C2	(2) SBNHH-1D65B	700/850/1900/AWS LTE & 850 5G	RMN	(2) BSF0020F3V1-1 B2/B66A RRH-BR049	RMN RMN
	153'	180°	C3	39GHZ VECTASTAR NR GNB	-	ADD	B5/B13 RRH-BR04C	RMN
DELTA	153'	270°	D1	39GHZ VECTASTAR NR GNB	-	ADD	-	-

EXISTING FIBER DISTRIBUTION / OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(2) DB-B1-6C-12AB0Z	RMN	(10) 1-5/8" COAX AND (2) 1-5/8" HYBRIFLEX CABLE(S)	RMN
-	RMV	(2) 1-5/8" COAX CABLE(S)	RMV

3

EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
(2) DB-B1-6C-12AB0Z	RMN	(10) 1-5/8" COAX AND (2) 1-5/8" HYBRIFLEX CABLE(S)	RMN
RVZDC-6627-PF-48	ADD	(1) 1-5/8" HYBRIFLEX CABLE(S)	ADD

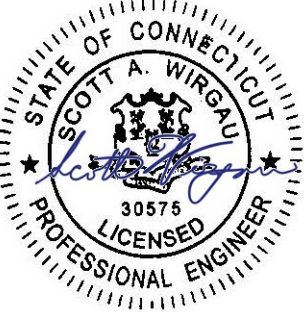


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A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	10/21/24
1	TOWER LAYOUT	LLR	12/17/24

ATC SITE NUMBER:
302529
ATC SITE NAME:
VERNON CT 6
VERIZON SITE NAME:
VERNON 3 CT
SITE ADDRESS:
777 TALCOTVILLE ROAD
VERNON ROCKVILLE,CT 06066

SEAL:

Digitally Signed: 2024-12-18



ATC JOB NO:	14846738_G0
CUSTOMER ID:	VERNON 3 CT
CUSTOMER #:	5000243787

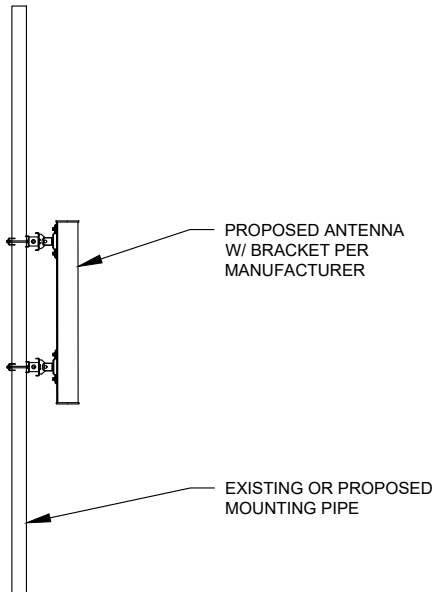
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:
C-401

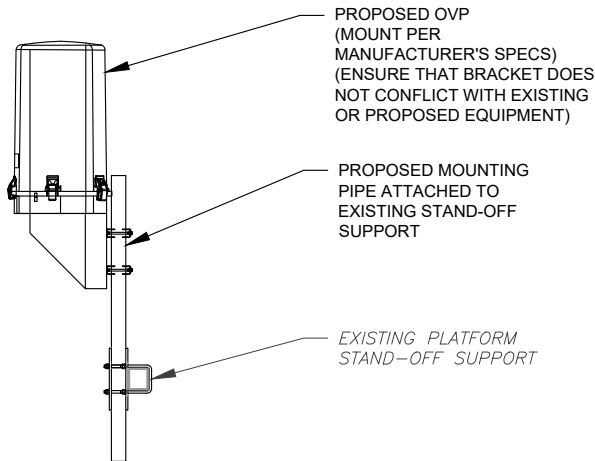
REVISION:
1

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



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



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



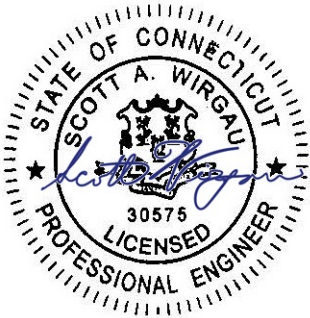
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SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	10/21/24
1	TOWER LAYOUT	LLR	12/17/24

ATC SITE NUMBER:
302529
ATC SITE NAME:
VERNON CT 6
VERIZON SITE NAME:
VERNON 3 CT
SITE ADDRESS:
777 TALCOTVILLE ROAD
VERNON ROCKVILLE,CT 06066

SEAL:



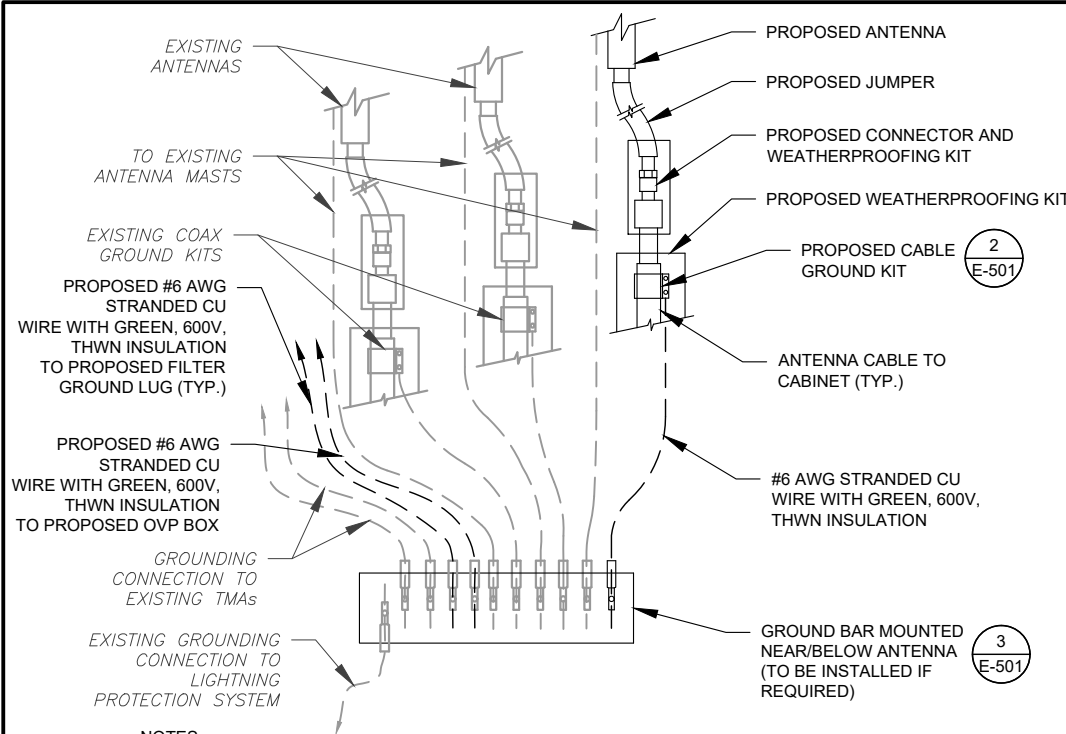
Digitally Signed: 2024-12-18



ATC JOB NO:	14846738_G0
CUSTOMER ID:	VERNON 3 CT
CUSTOMER #:	5000243787

CONSTRUCTION
DETAILS

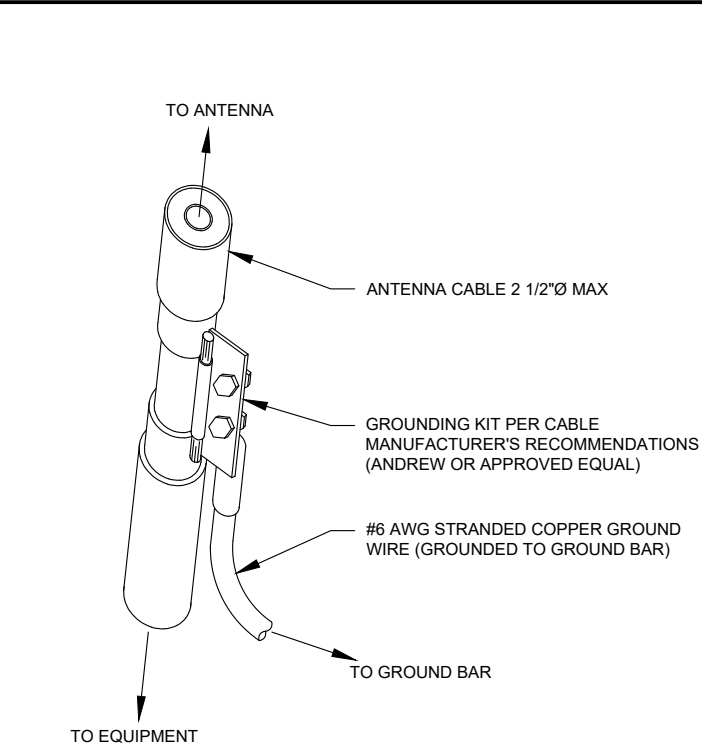
SHEET NUMBER:	REVISION:
C-501	1



NOTES:

- 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.
- 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.

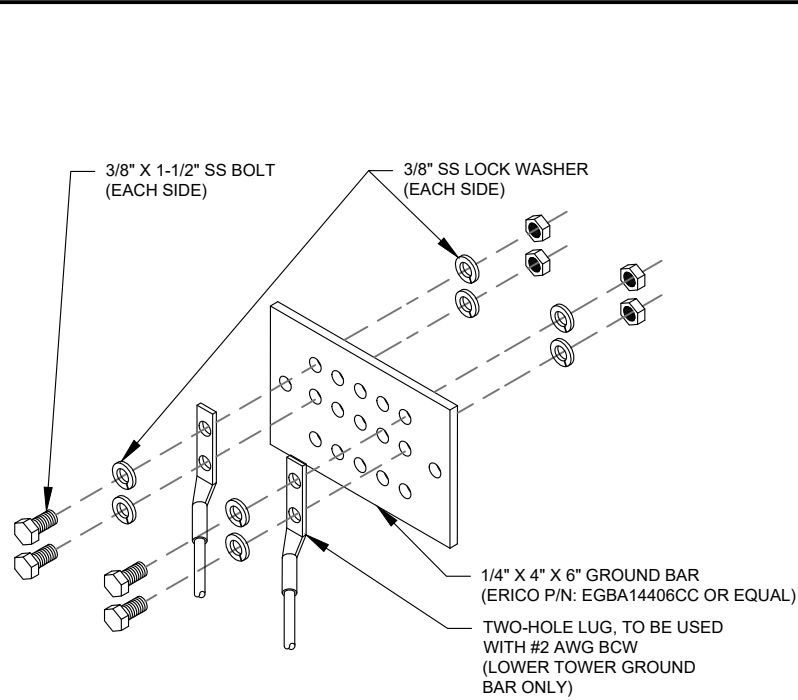
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND KIT NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- 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:

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

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

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A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LLR	10/21/24

ATC SITE NUMBER:
302529
ATC SITE NAME:
VERNON CT 6
VERIZON SITE NAME:
VERNON 3 CT
SITE ADDRESS:
777 TALCOTVILLE ROAD
VERNON ROCKVILLE,CT 06066

SEAL:



Digitally Signed: 2024-12-18

verizon

ATC JOB NO:	14846738_G0
CUSTOMER ID:	VERNON 3 CT
CUSTOMER #:	5000243787

GROUNDING DETAILS

SHEET NUMBER:

E-501

REVISION:

0



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

Antenna Mount Analysis Report with Hardware Upgrades
and PMI Requirements

Mount ReAnalysis-VZW
SMART Tool Project #: 10262581
Colliers Engineering & Design Project #: 24777034 (Rev. 3)

November 11, 2024

Site Information

Site ID: 5000243787-VZW / VERNON 3 CT
Site Name: VERNON 3 CT
Carrier Name: Verizon Wireless
Address: 777 Talcottville Road
Vernon, Connecticut 06066
Tolland County
Latitude: 41.863453°
Longitude: -72.483283°

Structure Information

Tower Type: Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 17288076

Analysis Results

Platform: 59.8% Pass w/ Hardware Upgrades*

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

***Contractor PMI Requirements:
Included at the end of this MA report
Available & Submitted via portal at <https://pmi.vzwsmart.com>
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Madison Shell



Mount Structural Analysis Report
(1) 12.50-Ft Platform

November 11, 2024
Site ID: 5000243787-VZW / VERNON 3 CT
Page | 6

Requirements:

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

Contractor shall install (2) new 96" long, PIPE 2 SCH40 mount pipes to existing pipes in position 4 on beta and gamma sectors using (2) dual-cross pipe to pipe connections (Perfect Vision, Part #: PV-SC-PTPC-2020-12) per mount pipe. Install pipe-to-pipe connection 35" from top of proposed pipe and 18" from top of existing pipe. Install the 2nd set of pipe-to-pipe clamps at 36" from the 1st set.

Contractor shall install OVP on a new 36" long P2 SCH40 pipe connected to the standoff between the alpha and beta sectors.

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:

- Contractor Required Post Installation Inspection (PMI) Report Deliverables
- Antenna Placement Diagrams
- Mount Photos
- Mount Mapping Report (for reference only)
- Analysis Calculations

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

Physical Characteristics

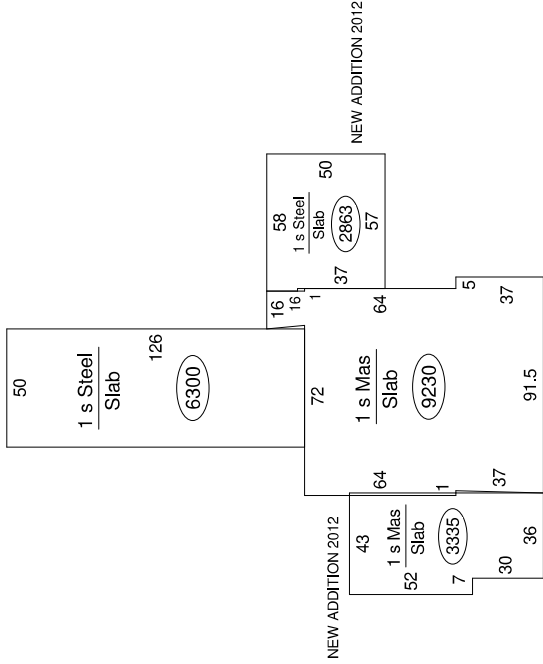
ROOFING					
Built-up					
WALLS	B	1	2	U	
	Frame	Yes	Yes	Yes	
FRAMING	B	0	21728	0	0
	F Res				
FINISH	UF	SF	FO	FD	
	1	21728	0	0	0
HEATING AND AIR CONDITIONING					
Heat	B	1	2	U	
	A/C	0	9230	0	0

Printed 06/23/2024

Tax ID 07-0002-00078

MONOPOLE CELL TOWER LOCATION

010203



FRONT OF BLDG ALONG TALCOTTVILLE R

Special Features

Description

Summary of Improvements

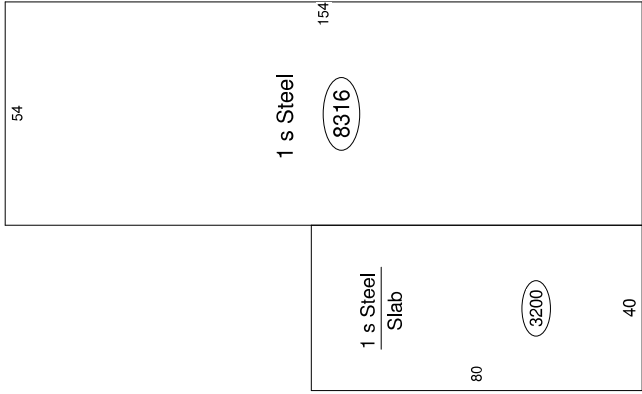
ID	USE	Story Height	Const Type	Grade	Year Cons	Eff Year	Cond	Size or Area
C	COMPAUTO	0.00		Avg	1965	2003	AV	21728
01	PAVING	0.00	85	Avg	1990	1990	AV	225000
02	FENCECL	6.00	51C	Avg	2002	2002	AV	200
03	SHED	0.00	1	Avg	2010	2010	AV	120

Physical Characteristics

ROOFING				
Metal				
Insulation				
WALLS				
Frame	B	1	2	U
Guard	Yes	Yes	Yes	Yes
FRAMING				
	B	1	2	U
FINISH				
	UF	SF	FO	FD
1	11516	0	0	0
Total	11516	0	0	0
HEATING AND AIR CONDITIONING				
	B	1	2	U
Heat	0	11516	0	0

Printed 06/23/2024

Tax ID 07-0002-00078



Special Features

Description

Summary of Improvements

ID	USE	Story Height	Const Type	Grade	Year Cons	Eff Year	Cond	Size or Area
C	SERVGAR	0.00		Fair	1980	1993	AV	11516

Town of Vernon, CT



December 20, 2024

TaxParcelPublishing

1:8,000
0 0.05 0.1 0.2 0.4
0 0.1 0.2 0.4
mi
km

Bloomfield Township MI, Esri, Inc.



Structural Analysis Report

Structure : 160 ft Monopole
ATC Asset Name : Vernon CT 6
ATC Asset Number : 302529
Engineering Number : 14846738_C3_07
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : VERNON 3 CT
Carrier Site Number : 5000243787
Site Location : 777 Talcotville Road
Vernon Rockville, CT 06066-2318
41.8635° N, 72.4833° W
County : Tolland
Date : August 27, 2024
Max Usage : 45%
Analysis Result : Pass



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 160 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	Summit, PJF Job #29201-0893, dated July 26, 2001
Foundation:	Summit, PJF Job #29201-0893, dated September 21, 2001
Geotechnical:	Dr. Clarence Welti Geotechnical Engineering Job #CT-1065, dated January 2, 2001

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:	118 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.50" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.18$, $S_i = 0.06$
Site Class:	D - Stiff Soil - Default

Conclusion

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

If you have any questions or require additional information, please 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	31.9%	1.2D + 1.0W	Pass
Serviceability Usage	13.4%	1.0D + 1.0W	Pass
Base Plate @ 0.0 ft	31.1%	Rods	Pass
Pier	45.1%	Shear [Steel]	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	3,571.5	89.0	32.2

**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
153.0	3	Samsung MT6407-77A	-
	4	CBNG 39GHz VectaStar NR gNB	
152.0	3	Samsung MT6407-77A	-
151.4	1	Raycap RVZDC-6627-PF-48	(10) 1 5/8" Coax (3) 1 5/8" Hybriflex
	2	RFS DB-B1-6C-12AB-0Z	
	3	Samsung B2/B66A RRH-BR049	
	3	Samsung B5/B13 RRH-BR04C	
	4	Kaelus BSF0020F3V1-1	
	6	Andrew SBNHH-1D65B	
150.0	1	Platform with Handrails	-
	3	Mount Reinforcement	
	3	Samsung XXDWMM-12.5-65-8T-CBRS	

Install proposed lines inside the pole shaft.

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
160.7	12	Decibel DB844H90E-XY	-	SPRINT NEXTEL
160.0	1	Low Profile Platform	(12) 1 1/4" Coax	SPRINT NEXTEL
146.2	1	Raycap DC9-48-60-24-8C-EV	-	AT&T MOBILITY
142.0	1	Raycap DC6-48-60-18-8F ("Squid")	(1) 0.39" (10mm) Fiber Trunk (1) 0.39" (9.8mm) Cable (1) 0.50" (12.7mm) Fiber (4) 0.78" (19.7mm) 8 AWG 6 (3) 0.92" (23.4mm) Cable (6) 1 1/4" Coax (2) 2" conduit (2) 3" conduit	AT&T MOBILITY
	1	Raycap DC6-48-60-18-8F (23.5" Height)		
	3	CCI DMP65R-BU6DA		
	3	CCI TPA-65R-BU6DA-K		
	3	Ericsson AIR 6419 B77G		
	3	Ericsson Air 6449 B77D		
	3	Ericsson RRUS 32 (50.8 lbs)		
	3	Ericsson RRUS 4415 B25		
	3	Ericsson RRUS 4426 B66		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14 (16.5" Height)		
	3	SitePro1 VFA14-H10-2120 Sector Frame		
130.0	6	Powerwave Allgon LGP21401	(3) 1.99" (50.7mm) Hybrid	SPRINT NEXTEL
	1	Platform with Handrails		
	3	Ericsson Air6449 B41		
	3	Ericsson Radio 4460 B25+B66		
	3	Ericsson Radio 4480 B71+B85A		
	3	RFS APXVAALL24 43-U-NA20		
120.6	3	RFS APXV18-206517S-C	-	METRO PCS INC
120.0	-	-	(6) 1 5/8" Coax	METRO PCS INC
109.0	1	Commscope RDIDC-9181-PF-48	(1) 1.60" (40.6mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B604		
	3	Fujitsu TA08025-B605		
	3	JMA Wireless MX08FRO665-21		
107.0	1	Platform with Handrails	-	DISH WIRELESS L.L.C.

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



Standard Conditions

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

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

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

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

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

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

ANALYSIS PARAMETERS

Design Wind:	118 mph	Ice Wind:	50 mph w/ 1.5" ice	Service Wind:	60 mph
Risk Category:	II	Exposure:	B	S _g :	0.182
Topo Factor:	Method 1	Topo Feature:		S _i :	0.055
Structure Height:	160.0 ft	Base Elevation:	0.00 ft	Topo Category:	1
Base Diameter:	72.13 in	Base Rotation:	0.00°	Structure Type:	Taper
				Taper:	0.2510 (in/ft)

POLE SECTION PROPERTIES

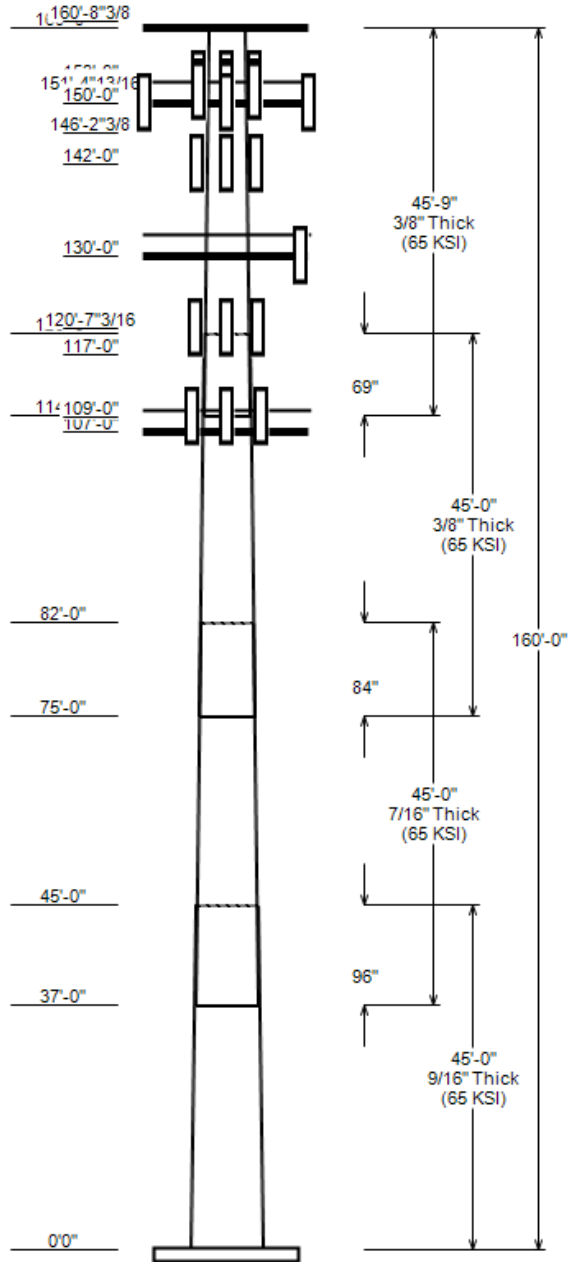
Section	Length (ft)	Flat Diameter (in)		Thick (in)	Joint Type	Joint Length (in)	Pole Shape	Yield Strength (ksi)
		Top	Bottom					
1	45.000	60.82	72.13	0.562		0.00	18 Sides	65
2	45.000	52.40	63.71	0.438	Slip Joint	96.00	18 Sides	65
3	45.000	43.60	54.91	0.375	Slip Joint	84.00	18 Sides	65
4	45.750	34.29	45.79	0.375	Slip Joint	69.00	18 Sides	65

DISCRETE APPURTENANCE

Elev (ft)	Description
160.7	(12) Decibel DB844H90E-XY
160.0	(1) Generic Flat Low Profile Platform
153.0	(4) CBNG 39GHz VectaStar NR gNB
153.0	(3) Samsung MT6407-77A
152.0	(3) Samsung MT6407-77A
151.4	(3) Samsung B5/B13 RRH-BR04C
151.4	(2) RFS DB-B1-6C-12AB-0Z
151.4	(4) Kaelus BSF0020F3V1-1
151.4	(3) Samsung B2/B66A RRH-BR049
151.4	(6) Andrew SBNHH-1D65B
151.4	(1) Raycap RVZDC-6627-PF-48
150.0	(3) Samsung XXDWMM-12.5-65-8T-CBR
150.0	(1) Generic Round Platform with Handrail
150.0	(3) Generic Mount Reinforcement
146.2	(1) Raycap DC9-48-60-24-8C-EV
142.0	(3) Ericsson RRUS 4478 B14 (16.5" Heig
142.0	(3) Ericsson Air 6449 B77D
142.0	(3) CCI DMP65R-BU6DA
142.0	(1) Raycap DC6-48-60-18-8F (23.5" Heig
142.0	(3) Ericsson AIR 6419 B77G
142.0	(6) Powerwave Allgon LGP21401
142.0	(3) Ericsson RRUS 4426 B66
142.0	(3) Ericsson RRUS 4415 B25
142.0	(3) Ericsson RRUS 32 (50.8 lbs)
142.0	(3) CCI TPA-65R-BU6DA-K
142.0	(1) Raycap DC6-48-60-18-8F ("Squid")
142.0	(3) Ericsson RRUS 4449 B5, B12
142.0	(3) SitePro1 VFA14-H10-2120 Sector Fra
130.0	(3) Ericsson Radio 4480 B71+B85A
130.0	(3) RFS APXVAALL24 43-U-NA20
130.0	(3) Ericsson Air6449 B41
130.0	(1) Generic Round Platform with Handrail
130.0	(3) Ericsson Radio 4460 B25+B66
120.6	(3) RFS APXV18-206517S-C
117.0	(3) Flush Mounts
109.0	(3) JMA Wireless MX08FRO665-21
109.0	(3) Fujitsu TA08025-B605
109.0	(3) Fujitsu TA08025-B604
109.0	(1) Commscope RDIDC-9181-PF-48
107.0	(1) Generic Round Platform with Handrail

LINEAR APPURTENANCE

Elev To (ft)	Description
160.0	(12) 1 1/4" Coax
151.4	(3) 1 5/8" Hybriflex
151.4	(10) 1 5/8" Coax
142.0	(3) 0.92" (23.4mm) Cable
142.0	(2) 2" conduit
142.0	(1) 0.50" (12.7mm) Fiber
142.0	(2) 3" conduit
142.0	(1) 0.39" (10mm) Fiber Trunk
142.0	(1) 0.39" (9.8mm) Cable
142.0	(4) 0.78" (19.7mm) 8 AWG 6
142.0	(6) 1 1/4" Coax
130.0	(3) 1.99" (50.7mm) Hybrid
120.0	(6) 1 5/8" Coax
109.0	(1) 1.60" (40.6mm) Hybrid



GLOBAL BASE REACTIONS

Load Case	Moment (kip-ft)	Axial (kip)	Shear (kip)
1.2D + 1.0W	3571.45	88.97	32.19
0.9D + 1.0W	3547.03	66.72	32.18
1.2D + 1.0Di + 1.0Wi	1040.37	122.85	9.42
1.2D + 1.0Ev + 1.0Eh	289.42	88.80	2.31
0.9D - 1.0Ev + 1.0Eh	286.98	61.73	2.31
1.0D + 1.0W	822.43	74.15	7.44

ANALYSIS PARAMETERS			
Location:	Tolland County,CT	Height:	160 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	72.13 in
Manufacturer:	Summit	Top Diameter:	34.29 in
K _d (non-service):	0.95	Taper:	0.2510 in/ft
K _e :	0.99	Rotation:	0.000°

ICE & WIND PARAMETERS			
Risk Category:	II	Design Wind Speed:	118 mph
Exposure Category:	B	Design Wind Speed w/ Ice:	50 mph
Topo Factor Procedure:	Method 1	Design Ice Thickness:	1.50 in
Topographic Category:	1	Service Wind Speed:	60 mph
Crest Height:	0 ft	HMSL:	236.00 ft

SEISMIC PARAMETERS					
Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil	Period Based on Rayleigh Method (sec):		1.88	
T _L (sec):	6	P:	1	C _s :	0.031
S _{ds} :	0.194	S _{d1} :	0.088	C _s Max:	0.031
S _s :	0.182	S ₁ :	0.055	C _s Min:	0.030
F _a :	1.600	F _v :	2.400		

LOAD CASES	
1.2D + 1.0W	118 mph Wind with No Ice
0.9D + 1.0W	118 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph Wind with 1.5" 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						Taper (in/ft)
							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	
1-18	45.00	0.5625	65		0.00	18,019	72.13	0.000	127.77	82,682.7	20.85	128.23	60.82	45.00	107.58	49,353.	17.30	108.13	0.2513
2-18	45.00	0.4375	65	Slip	96.00	12,250	63.71	37.000	87.85	44,431.2	23.91	145.61	52.40	82.00	72.15	24,610.	19.35	119.76	0.2513
3-18	45.00	0.3750	65	Slip	84.00	8,908	54.91	75.000	64.90	24,384.1	24.05	146.42	43.60	120.00	51.44	12,141.	18.74	116.26	0.2513
4-18	45.75	0.3750	65	Slip	69.00	7,350	45.79	114.250	54.06	14,087.1	19.77	122.11	34.29	160.00	40.37	5,868.1	14.36	91.45	0.2513
Total Shaft Weight						46,527													

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
160.70	Decibel DB844H90E-XY	12	0.80	1.000	14.00	3.615	0.74	125.34	3.927	0.74
160.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2690.49	45.325	1.00
153.00	CBNG 39GHz VectaStar NR gNB	4	0.80	0.000	39.70	2.402	0.67	112.15	3.422	0.67
153.00	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	183.91	6.234	0.61
152.00	Samsung MT6407-77A	3	0.75	0.000	81.60	4.709	0.61	183.85	6.233	0.61
151.40	RFS DB-B1-6C-12AB-0Z	2	0.80	0.000	21.40	2.512	0.67	101.42	3.556	0.67
151.40	Andrew SBNHH-1D65B	6	0.75	0.000	50.70	8.173	0.83	226.61	11.010	0.83
151.40	Raycap RVZDC-6627-PF-48	1	0.80	0.000	32.00	3.781	1.00	141.94	5.107	1.00
151.40	Samsung B5/B13 RRH-BR04C	3	0.75	0.000	70.30	1.875	0.50	127.65	2.780	0.50
151.40	Samsung B2/B66A RRH-BR049	3	0.75	0.000	84.40	1.875	0.50	148.36	2.780	0.50
151.40	Kaelus BSF0020F3V1-1	4	0.80	0.000	15.40	1.097	0.50	41.00	1.796	0.50
150.00	Samsung XXDWMM-12.5-65-8T-CBRS	3	0.80	0.000	23.10	1.539	0.50	64.62	2.372	0.50
150.00	Generic Mount Reinforcement	3	0.75	0.000	200.00	7.500	0.67	393.68	14.993	0.67
150.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	4120.98	51.663	1.00
146.20	Raycap DC9-48-60-24-8C-EV	1	0.80	0.000	16.00	1.010	1.00	61.05	1.570	1.00
142.00	Ericsson RRUS 4415 B25	3	0.80	0.000	46.00	1.842	0.50	94.83	2.735	0.50
142.00	Ericsson RRUS 4449 B5, B12	3	0.80	0.000	71.00	1.969	0.50	135.18	2.898	0.50
142.00	Ericsson RRUS 32 (50.8 lbs)	3	0.80	0.000	50.80	2.692	0.67	122.03	3.842	0.67
142.00	Ericsson Air 6419 B77G	3	0.80	0.000	66.10	3.797	0.65	162.72	5.109	0.65
142.00	Ericsson Air 6449 B77D	3	0.80	0.000	81.60	4.028	0.65	184.01	5.397	0.65
142.00	CCI TPA-65R-BU6DA-K	3	0.80	0.000	69.00	12.709	0.60	325.54	15.486	0.60
142.00	CCI DMP65R-BU6DA	3	0.80	0.000	79.40	12.709	0.63	335.94	15.486	0.63
142.00	SitePro1 VFA14-H10-2120 Sector	3	0.75	0.000	912.20	14.400	0.67	1545.07	24.390	0.67
142.00	Ericsson RRUS 4426 B66	3	0.80	0.000	48.40	1.650	0.50	92.86	2.496	0.50
142.00	Raycap DC6-48-60-18-8F ("Squid	1	0.80	0.000	18.90	1.470	1.00	80.36	2.166	1.00
142.00	Raycap DC6-48-60-18-8F (23.5"	1	0.80	0.000	20.00	1.260	1.00	72.44	1.916	1.00
142.00	Powerwave Allgon LGP21401	6	0.80	0.000	14.10	1.104	0.50	38.95	1.815	0.50
142.00	Ericsson RRUS 4478 B14 (16.5"	3	0.80	0.000	59.90	1.842	0.50	114.96	2.735	0.50
130.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	4096.89	51.300	1.00
130.00	Ericsson Air6449 B41	3	0.75	0.000	104.00	5.682	0.63	238.36	7.247	0.63
130.00	RFS APXVAALL24 43-U-NA20	3	0.75	0.000	122.80	20.243	0.63	506.81	23.900	0.63
130.00	Ericsson Radio 4460 B25+B66	3	0.75	0.000	109.00	2.564	0.67	196.14	3.603	0.67
130.00	Ericsson Radio 4480 B71+B85A	3	0.75	0.000	84.00	2.852	0.67	158.48	3.953	0.67
120.60	RFS APXV18-206517S-C	3	1.00	0.000	26.40	5.160	0.80	117.22	7.478	0.80
117.00	Flush Mounts	3	1.00	0.000	65.00	2.000	0.67	175.56	4.041	0.67
109.00	JMA Wireless MX08FRO665-21	3	0.75	0.000	64.50	12.489	0.64	313.73	15.214	0.64
109.00	Fujitsu TA08025-B605	3	0.75	0.000	75.00	1.962	0.50	135.75	2.854	0.50
109.00	Fujitsu TA08025-B604	3	0.75	0.000	63.90	1.962	0.50	120.45	2.854	0.50
109.00	Commscope RDIDC-9181-PF-48	1	0.75	0.000	21.90	1.867	1.00	77.08	2.740	1.00
107.00	Generic Round Platform with Ha	1	1.00	0.000	2500.00	27.200	1.00	4067.67	50.859	1.00
Totals		Row Count: 40	118		18,523.80			37,854.91		

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	160.00	12	1 1/4" Coax	1.55	0.63	N	0	0	0	0	0	N SPRINT NEXTEL
0.00	151.40	10	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N VERIZON WIRELESS

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	151.40	3	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIRELESS
0.00	142.00	6	1 1/4" Coax	1.55	0.63	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	142.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	142.00	3	0.92" (23.4mm) Cable	0.92	0.89	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	142.00	2	2" conduit	2.38	3.65	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	142.00	2	3" conduit	3.5	7.58	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	142.00	1	0.39" (9.8mm) Cable	0.39	0.07	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	142.00	1	0.39" (10mm) Fiber Tr	0.39	0.06	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	142.00	1	0.50" (12.7mm) Fiber	0.5	0.13	N	0	0	0	0	0	N	AT&T MOBILITY
0.00	130.00	3	1.99" (50.7mm) Hybrid	1.99	1.9	N	0	0	0	0	0	N	SPRINT NEXTEL
0.00	120.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	METRO PCS INC
0.00	109.00	1	1.60" (40.6mm) Hybrid	1.6	2.34	N	0	0	0	0	0	N	DISH WIRELESS L.L.C.

SEGMENT PROPERTIES												
Seg Top Elev (ft)	Description	(Max Length: 5 ft)	Thick (in)	Flat Dia (in)	Area (in²)	Ix (in⁴)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in³)	Z (in³)	Weight (lb)
0.00			0.5625	72.130	127.770	82,682.70	20.85	128.23	76.9	2257.8	0.0	0.0
5.00			0.5625	70.873	125.527	78,403.40	20.45	126.00	77.3	2178.9	0.0	2,154.8
10.00			0.5625	69.617	123.283	74,274.40	20.06	123.76	77.8	2101.4	0.0	2,116.6
15.00			0.5625	68.360	121.040	70,293.00	19.67	121.53	78.3	2025.3	0.0	2,078.4
20.00			0.5625	67.104	118.797	66,456.40	19.27	119.30	78.7	1950.6	0.0	2,040.3
25.00			0.5625	65.847	116.553	62,762.10	18.88	117.06	79.2	1877.3	0.0	2,002.1
30.00			0.5625	64.590	114.310	59,207.20	18.48	114.83	79.7	1805.5	0.0	1,963.9
35.00			0.5625	63.334	112.066	55,789.20	18.09	112.59	80.1	1735.0	0.0	1,925.8
37.00	Bot - Section 2		0.5625	62.831	111.169	54,459.70	17.93	111.70	80.3	1707.2	0.0	759.6
40.00			0.5625	62.077	109.823	52,505.40	17.70	110.36	80.6	1665.9	0.0	2,019.5
45.00	Top - Section 1		0.4375	61.696	85.061	40,328.60	23.10	141.02	74.2	1287.5	0.0	3,311.5
50.00			0.4375	60.439	83.317	37,897.30	22.60	138.15	74.8	1235.0	0.0	1,432.4
55.00			0.4375	59.182	81.572	35,565.80	22.09	135.27	75.4	1183.6	0.0	1,402.7
60.00			0.4375	57.926	79.827	33,332.00	21.58	132.40	76	1133.4	0.0	1,373.0
65.00			0.4375	56.669	78.082	31,193.60	21.08	129.53	76.6	1084.2	0.0	1,343.3
70.00			0.4375	55.413	76.337	29,148.80	20.57	126.66	77.2	1036.1	0.0	1,313.6
75.00	Bot - Section 3		0.4375	54.156	74.592	27,195.30	20.06	123.79	77.8	989.1	0.0	1,283.9
80.00			0.4375	52.899	72.847	25,331.10	19.56	120.91	78.4	943.2	0.0	2,345.8
82.00	Top - Section 2		0.3750	53.147	62.809	22,099.40	23.23	141.72	74.1	819.0	0.0	922.9
85.00			0.3750	52.393	61.912	21,165.60	22.87	139.71	74.5	795.7	0.0	636.6
90.00			0.3750	51.136	60.416	19,668.50	22.28	136.36	75.2	757.6	0.0	1,040.6
95.00			0.3750	49.880	58.921	18,243.70	21.69	133.01	75.9	720.4	0.0	1,015.2
100.00			0.3750	48.623	57.425	16,889.40	21.10	129.66	76.6	684.2	0.0	989.7
105.00			0.3750	47.366	55.929	15,603.80	20.51	126.31	77.3	648.8	0.0	964.3
107.00			0.3750	46.864	55.331	15,108.40	20.27	124.97	77.6	635.0	0.0	378.6
109.00			0.3750	46.361	54.733	14,623.70	20.04	123.63	77.8	621.3	0.0	374.5
110.00			0.3750	46.110	54.434	14,385.20	19.92	122.96	78	614.5	0.0	185.7
114.25	Bot - Section 4		0.3750	45.042	53.163	13,400.70	19.42	120.11	78.6	586.0	0.0	778.0
115.00			0.3750	44.853	52.938	13,231.70	19.33	119.61	78.7	581.0	0.0	273.1
117.00			0.3750	44.351	52.340	12,788.20	19.09	118.27	78.9	567.9	0.0	722.6
120.00	Top - Section 3		0.3750	44.347	52.335	12,784.80	19.09	118.26	78.9	567.8	0.0	1,068.6
120.60			0.3750	44.196	52.156	12,653.70	19.02	117.86	79	563.9	0.0	106.7
125.00			0.3750	43.090	50.840	11,719.70	18.50	114.91	79.6	535.7	0.0	771.0
130.00			0.3750	41.833	49.344	10,715.50	17.91	111.56	80.3	504.5	0.0	852.3
135.00			0.3750	40.577	47.848	9,770.40	17.32	108.20	81	474.3	0.0	826.8
140.00			0.3750	39.320	46.353	8,882.50	16.73	104.85	81.7	444.9	0.0	801.4
142.00			0.3750	38.818	45.755	8,543.00	16.49	103.51	82	433.5	0.0	313.4
145.00			0.3750	38.064	44.857	8,050.20	16.13	101.50	82.4	416.6	0.0	462.5
146.20			0.3750	37.762	44.498	7,858.50	15.99	100.70	82.6	409.9	0.0	182.4
150.00			0.3750	36.807	43.362	7,271.50	15.54	98.15	82.6	389.1	0.0	568.0
151.40			0.3750	36.455	42.943	7,062.90	15.38	97.21	82.6	381.6	0.0	205.6
152.00			0.3750	36.304	42.763	6,974.70	15.31	96.81	82.6	378.4	0.0	87.5
153.00			0.3750	36.053	42.464	6,829.30	15.19	96.14	82.6	373.1	0.0	145.0
155.00			0.3750	35.550	41.866	6,544.70	14.95	94.80	82.6	362.6	0.0	287.0
160.00			0.3750	34.294	40.370	5,868.10	14.36	91.45	82.6	337.0	0.0	699.6
Total:												46,526.8

CALCULATED FORCES													
Load Case: 1.2D + 1.0W			118 mph Wind with No Ice									20 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	-88.97	-32.19	0.00	-3,571.4	0.00	3,571.45	8,840.73	2,242.37	14,495.03	13,018.39	0	0	0.285
5.00	-85.97	-31.71	0.00	-3,410.5	0.00	3,410.51	8,737.84	2,203.00	13,990.54	12,639.20	0.03	-0.06	0.280
10.00	-83.01	-31.24	0.00	-3,252.0	0.00	3,251.95	8,633.08	2,163.62	13,494.99	12,262.72	0.13	-0.12	0.275
15.00	-80.10	-30.77	0.00	-3,095.8	0.00	3,095.76	8,526.45	2,124.25	13,008.38	11,889.08	0.29	-0.18	0.270
20.00	-77.24	-30.31	0.00	-2,941.9	0.00	2,941.91	8,417.95	2,084.88	12,530.70	11,518.45	0.51	-0.24	0.265

CALCULATED FORCES

25.00	-74.42	-29.85	0.00	-2,790.4	0.00	2,790.37	8,307.58	2,045.51	12,061.95	11,150.96	0.8	-0.3	0.259
30.00	-71.65	-29.39	0.00	-2,641.1	0.00	2,641.14	8,195.34	2,006.14	11,602.14	10,786.76	1.15	-0.37	0.254
35.00	-68.93	-29.05	0.00	-2,494.2	0.00	2,494.20	8,081.23	1,966.76	11,151.27	10,425.99	1.57	-0.43	0.248
37.00	-67.85	-28.81	0.00	-2,436.1	0.00	2,436.10	8,035.06	1,951.01	10,973.42	10,282.68	1.75	-0.45	0.246
40.00	-65.18	-28.41	0.00	-2,349.7	0.00	2,349.66	7,965.25	1,927.39	10,709.33	10,068.81	2.05	-0.49	0.242
45.00	-60.80	-27.88	0.00	-2,207.6	0.00	2,207.62	5,682.59	1,492.83	8,259.63	7,167.58	2.59	-0.55	0.319
50.00	-58.66	-27.37	0.00	-2,068.2	0.00	2,068.21	5,610.69	1,462.21	7,924.28	6,930.69	3.2	-0.61	0.309
55.00	-56.57	-26.86	0.00	-1,931.4	0.00	1,931.36	5,536.91	1,431.58	7,595.88	6,695.28	3.89	-0.69	0.299
60.00	-54.51	-26.34	0.00	-1,797.1	0.00	1,797.06	5,461.27	1,400.96	7,274.42	6,461.51	4.65	-0.76	0.288
65.00	-52.49	-25.82	0.00	-1,665.4	0.00	1,665.36	5,383.75	1,370.34	6,959.92	6,229.51	5.49	-0.84	0.277
70.00	-50.50	-25.29	0.00	-1,536.3	0.00	1,536.28	5,304.37	1,339.72	6,652.37	5,999.44	6.4	-0.91	0.266
75.00	-48.56	-24.75	0.00	-1,409.9	0.00	1,409.86	5,223.11	1,309.09	6,351.77	5,771.43	7.4	-0.98	0.254
80.00	-45.34	-24.33	0.00	-1,286.1	0.00	1,286.12	5,139.98	1,278.47	6,058.11	5,545.65	8.46	-1.05	0.241
82.00	-44.07	-24.05	0.00	-1,237.4	0.00	1,237.45	4,187.74	1,102.30	5,253.99	4,550.50	8.91	-1.08	0.283
85.00	-43.06	-23.63	0.00	-1,165.3	0.00	1,165.30	4,151.14	1,086.55	5,104.95	4,445.84	9.6	-1.12	0.273
90.00	-41.41	-23.09	0.00	-1,047.2	0.00	1,047.16	4,088.65	1,060.31	4,861.31	4,272.37	10.82	-1.2	0.256
95.00	-39.79	-22.55	0.00	-931.7	0.00	931.72	4,024.29	1,034.06	4,623.63	4,100.25	12.11	-1.27	0.238
100.00	-38.21	-22.01	0.00	-819.0	0.00	818.98	3,958.05	1,007.81	4,391.91	3,929.63	13.48	-1.34	0.219
105.00	-36.66	-21.62	0.00	-708.9	0.00	708.93	3,889.95	981.56	4,166.15	3,760.65	14.91	-1.4	0.198
107.00	-33.07	-20.32	0.00	-665.7	0.00	665.69	3,862.18	971.06	4,077.51	3,693.56	15.5	-1.43	0.189
109.00	-31.73	-19.24	0.00	-625.1	0.00	625.06	3,834.12	960.56	3,989.82	3,626.76	16.11	-1.45	0.181
110.00	-31.43	-18.97	0.00	-605.8	0.00	605.82	3,819.97	955.31	3,946.34	3,593.47	16.41	-1.46	0.177
114.25	-30.18	-18.69	0.00	-525.2	0.00	525.18	3,759.02	933.00	3,764.18	3,452.88	17.74	-1.51	0.161
115.00	-29.80	-18.54	0.00	-511.2	0.00	511.16	3,748.12	929.07	3,732.48	3,428.22	17.97	-1.52	0.157
117.00	-28.55	-18.10	0.00	-474.1	0.00	474.08	3,718.86	918.57	3,648.61	3,362.69	18.61	-1.54	0.149
120.00	-27.05	-17.88	0.00	-419.8	0.00	419.78	3,718.63	918.48	3,647.96	3,362.18	19.59	-1.57	0.133
120.60	-26.80	-17.14	0.00	-409.1	0.00	409.06	3,709.79	915.33	3,622.98	3,342.59	19.79	-1.57	0.130
125.00	-25.57	-16.64	0.00	-333.6	0.00	333.62	3,644.16	892.24	3,442.46	3,199.89	21.26	-1.61	0.112
130.00	-19.79	-13.14	0.00	-250.4	0.00	250.43	3,567.82	865.99	3,242.92	3,039.89	22.97	-1.65	0.088
135.00	-18.50	-12.61	0.00	-184.7	0.00	184.73	3,489.60	839.74	3,049.34	2,882.32	24.71	-1.68	0.070
140.00	-17.24	-12.24	0.00	-121.7	0.00	121.67	3,409.52	813.49	2,861.72	2,727.33	26.47	-1.7	0.050
142.00	-11.36	-8.21	0.00	-97.2	0.00	97.20	3,376.96	802.99	2,788.34	2,666.10	27.19	-1.7	0.040
145.00	-10.74	-8.00	0.00	-72.6	0.00	72.55	3,327.56	787.24	2,680.06	2,575.07	28.26	-1.71	0.032
146.20	-10.48	-7.72	0.00	-63.0	0.00	62.96	3,306.00	780.95	2,637.34	2,537.71	28.69	-1.72	0.028
150.00	-5.97	-5.69	0.00	-33.6	0.00	33.62	3,221.55	761.00	2,504.35	2,409.10	30.06	-1.72	0.016
151.40	-4.66	-3.82	0.00	-25.7	0.00	25.66	3,190.44	753.65	2,456.21	2,362.55	30.57	-1.72	0.012
152.00	-4.26	-3.47	0.00	-23.4	0.00	23.37	3,177.11	750.50	2,435.73	2,342.75	30.78	-1.72	0.011
153.00	-3.62	-2.81	0.00	-19.9	0.00	19.90	3,154.88	745.25	2,401.78	2,309.92	31.15	-1.73	0.010
155.00	-3.26	-2.49	0.00	-14.3	0.00	14.27	3,110.44	734.75	2,334.59	2,244.96	31.87	-1.73	0.007
160.00	0.00	-2.39	0.00	-1.8	0.00	1.83	2,999.32	708.50	2,170.80	2,086.61	33.68	-1.73	0.001

CALCULATED FORCES

Load Case: 0.9D + 1.0W

118 mph Wind with No Ice (Reduced DL)

20 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	-66.72	-32.18	0.00	-3,547.0	0.00	3,547.03	8,840.73	2,242.37	14,495.03	13,018.39	0	0	0.280
5.00	-64.46	-31.68	0.00	-3,386.2	0.00	3,386.15	8,737.84	2,203.00	13,990.54	12,639.20	0.03	-0.06	0.275
10.00	-62.24	-31.18	0.00	-3,227.8	0.00	3,227.77	8,633.08	2,163.62	13,494.99	12,262.72	0.13	-0.12	0.271
15.00	-60.05	-30.69	0.00	-3,071.9	0.00	3,071.86	8,526.45	2,124.25	13,008.38	11,889.08	0.29	-0.18	0.266
20.00	-57.89	-30.21	0.00	-2,918.4	0.00	2,918.38	8,417.95	2,084.88	12,530.70	11,518.45	0.51	-0.24	0.260
25.00	-55.77	-29.74	0.00	-2,767.3	0.00	2,767.32	8,307.58	2,045.51	12,061.95	11,150.96	0.79	-0.3	0.255
30.00	-53.69	-29.26	0.00	-2,618.6	0.00	2,618.64	8,195.34	2,006.14	11,602.14	10,786.76	1.14	-0.36	0.250
35.00	-51.65	-28.92	0.00	-2,472.4	0.00	2,472.35	8,081.23	1,966.76	11,151.27	10,425.99	1.55	-0.42	0.244
37.00	-50.83	-28.67	0.00	-2,414.5	0.00	2,414.51	8,035.06	1,951.01	10,973.42	10,282.68	1.74	-0.45	0.241
40.00	-48.82	-28.26	0.00	-2,328.5	0.00	2,328.51	7,965.25	1,927.39	10,709.33	10,068.81	2.03	-0.49	0.238
45.00	-45.53	-27.72	0.00	-2,187.2	0.00	2,187.23	5,682.59	1,492.83	8,259.63	7,167.58	2.57	-0.55	0.314
50.00	-43.92	-27.20	0.00	-2,048.6	0.00	2,048.62	5,610.69	1,462.21	7,924.28	6,930.69	3.18	-0.61	0.304
55.00	-42.35	-26.68	0.00	-1,912.6	0.00	1,912.62	5,536.91	1,431.58	7,595.88	6,695.28	3.86	-0.68	0.294
60.00	-40.80	-26.14	0.00	-1,779.2	0.00	1,779.25	5,461.27	1,400.96	7,274.42	6,461.51	4.61	-0.76	0.283
65.00	-39.27	-25.61	0.00	-1,648.5	0.00	1,648.53	5,383.75	1,370.34	6,959.92	6,229.51	5.44	-0.83	0.272
70.00	-37.78	-25.07	0.00	-1,520.5	0.00	1,520.48	5,304.37	1,339.72	6,652.37	5,999.44	6.35	-0.9	0.261
75.00	-36.31	-24.52	0.00	-1,395.1	0.00	1,395.14	5,223.11	1,309.09	6,351.77	5,771.43	7.34	-0.97	0.249
80.00	-33.90	-24.11	0.00	-1,272.5	0.00	1,272.51	5,139.98	1,278.47	6,058.11	5,545.65	8.39	-1.04	0.236
82.00	-32.95	-23.83	0.00	-1,224.3	0.00	1,224.29	4,187.74	1,102.30	5,253.99	4,550.50	8.84	-1.07	0.277
85.00	-32.19	-23.40	0.00	-1,152.8	0.00	1,152.79	4,151.14	1,086.55	5,104.95	4,445.84	9.52	-1.11	0.268
90.00	-30.94	-22.86	0.00	-1,035.8	0.00	1,035.78	4,088.65	1,060.31	4,861.31	4,272.37	10.73	-1.19	0.250
95.00	-29.73	-22.31	0.00	-921.5	0.00	921.50	4,024.29	1,034.06	4,623.63	4,100.25	12.01	-1.26	0.233
100.00	-28.53	-21.77	0.00	-809.9	0.00	809.94	3,958.05	1,007.81	4,391.91	3,929.63	13.36	-1.32	0.214
105.00	-27.37	-21.38	0.00	-701.1	0.00	701.08	3,889.95	981.56	4,166.15	3,760.65	14.78	-1.39	0.194
107.00	-24.69	-20.10	0.00	-658.3	0.00	658.32	3,862.18	971.06	4,077.51	3,693.56	15.37	-1.41	0.185
109.00	-23.69	-19.03	0.00	-618.1	0.00	618.11	3,834.12	960.56	3,989.82	3,626.76	15.97	-1.44	0.177
110.00	-23.46	-18.76	0.00	-599.1	0.00	599.08	3,819.97	955.31	3,946.34	3,593.47	16.27	-1.45	0.173
114.25	-22.52	-18.48	0.00	-519.4	0.00	519.35	3,759.02	933.00	3,764.18	3,452.88	17.58	-1.49	0.157
115.00	-22.23	-18.33	0.00	-505.5	0.00	505.49	3,748.12	929.07	3,732.48	3,428.22	17.81	-1.5	0.154
117.00	-21.30	-17.90	0.00	-468.8	0.00	468.83	3,718.86	918.57	3,648.61	3,362.69	18.45	-1.52	0.146
120.00	-20.17	-17.68	0.00	-415.1	0.00	415.13	3,718.63	918.48	3,647.96	3,362.18	19.42	-1.55	0.129
120.60	-19.99	-16.95	0.00	-404.5	0.00	404.52	3,709.79	915.33	3,622.98	3,342.59	19.61	-1.56	0.127
125.00	-19.07	-16.45	0.00	-330.0	0.00	329.95	3,644.16	892.24	3,442.46	3,199.89	21.07	-1.6	0.109
130.00	-14.75	-12.99	0.00	-247.7	0.00	247.70	3,567.82	865.99	3,242.92	3,039.89	22.76	-1.63	0.086
135.00	-13.79	-12.47	0.00	-182.8	0.00	182.75	3,489.60	839.74	3,049.34	2,882.32	24.48	-1.66	0.068
140.00	-12.84	-12.10	0.00	-120.4	0.00	120.41	3,409.52	813.49	2,861.72	2,727.33	26.23	-1.68	0.048
142.00	-8.47	-8.13	0.00	-96.2	0.00	96.20	3,376.96	802.99	2,788.34	2,666.10	26.94	-1.69	0.039
145.00	-8.00	-7.91	0.00	-71.8	0.00	71.83	3,327.56	787.24	2,680.06	2,575.07	28	-1.7	0.030
146.20	-7.81	-7.64	0.00	-62.3	0.00	62.33	3,306.00	780.95	2,637.34	2,537.71	28.43	-1.7	0.027
150.00	-4.44	-5.64	0.00	-33.3	0.00	33.31	3,221.55	761.00	2,504.35	2,409.10	29.79	-1.71	0.015
151.40	-3.47	-3.78	0.00	-25.4	0.00	25.42	3,190.44	753.65	2,456.21	2,362.55	30.29	-1.71	0.012
152.00	-3.17	-3.43	0.00	-23.2	0.00	23.15	3,177.11	750.50	2,435.73	2,342.75	30.5	-1.71	0.011
153.00	-2.69	-2.79	0.00	-19.7	0.00	19.71	3,154.88	745.25	2,401.78	2,309.92	30.86	-1.71	0.009
155.00	-2.43	-2.46	0.00	-14.1	0.00	14.14	3,110.44	734.75	2,334.59	2,244.96	31.57	-1.71	0.007
160.00	0.00	-2.39	0.00	-1.8	0.00	1.83	2,999.32	708.50	2,170.80	2,086.61	33.37	-1.71	0.001

CALCULATED FORCES

Load Case: 1.2D + 1.0Di + 1.0Wi													
50 mph Wind with 1.5" Radial Ice													
20 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	-122.85	-9.42	0.00	-1,040.4	0.00	1,040.37	8,840.73	2,242.37	14,495.03	13,018.39	0	0	0.094
5.00	-119.35	-9.28	0.00	-993.3	0.00	993.26	8,737.84	2,203.00	13,990.54	12,639.20	0.01	-0.02	0.092
10.00	-115.85	-9.15	0.00	-946.8	0.00	946.84	8,633.08	2,163.62	13,494.99	12,262.72	0.04	-0.04	0.091
15.00	-112.37	-9.01	0.00	-901.1	0.00	901.10	8,526.45	2,124.25	13,008.38	11,889.08	0.08	-0.05	0.089
20.00	-108.93	-8.88	0.00	-856.0	0.00	856.04	8,417.95	2,084.88	12,530.70	11,518.45	0.15	-0.07	0.087
25.00	-105.53	-8.74	0.00	-811.6	0.00	811.65	8,307.58	2,045.51	12,061.95	11,150.96	0.23	-0.09	0.086
30.00	-102.18	-8.61	0.00	-767.9	0.00	767.93	8,195.34	2,006.14	11,602.14	10,786.76	0.33	-0.11	0.084
35.00	-98.87	-8.51	0.00	-724.9	0.00	724.88	8,081.23	1,966.76	11,151.27	10,425.99	0.46	-0.12	0.082
37.00	-97.56	-8.44	0.00	-707.9	0.00	707.86	8,035.06	1,951.01	10,973.42	10,282.68	0.51	-0.13	0.081
40.00	-94.54	-8.32	0.00	-682.5	0.00	682.54	7,965.25	1,927.39	10,709.33	10,068.81	0.6	-0.14	0.080
45.00	-89.57	-8.17	0.00	-640.9	0.00	640.93	5,682.59	1,492.83	8,259.63	7,167.58	0.75	-0.16	0.105
50.00	-86.86	-8.01	0.00	-600.1	0.00	600.11	5,610.69	1,462.21	7,924.28	6,930.69	0.93	-0.18	0.102
55.00	-84.19	-7.86	0.00	-560.0	0.00	560.04	5,536.91	1,431.58	7,595.88	6,695.28	1.13	-0.2	0.099
60.00	-81.56	-7.71	0.00	-520.7	0.00	520.73	5,461.27	1,400.96	7,274.42	6,461.51	1.35	-0.22	0.096
65.00	-78.98	-7.55	0.00	-482.2	0.00	482.19	5,383.75	1,370.34	6,959.92	6,229.51	1.6	-0.24	0.092
70.00	-76.44	-7.39	0.00	-444.4	0.00	444.44	5,304.37	1,339.72	6,652.37	5,999.44	1.86	-0.26	0.089
75.00	-73.95	-7.23	0.00	-407.5	0.00	407.48	5,223.11	1,309.09	6,351.77	5,771.43	2.15	-0.28	0.085
80.00	-70.18	-7.10	0.00	-371.3	0.00	371.33	5,139.98	1,278.47	6,058.11	5,545.65	2.46	-0.31	0.081
82.00	-68.69	-7.02	0.00	-357.1	0.00	357.13	4,187.74	1,102.30	5,253.99	4,550.50	2.59	-0.31	0.095
85.00	-67.36	-6.89	0.00	-336.1	0.00	336.08	4,151.14	1,086.55	5,104.95	4,445.84	2.79	-0.33	0.092
90.00	-65.18	-6.72	0.00	-301.6	0.00	301.63	4,088.65	1,060.31	4,861.31	4,272.37	3.14	-0.35	0.087
95.00	-63.04	-6.56	0.00	-268.0	0.00	268.01	4,024.29	1,034.06	4,623.63	4,100.25	3.52	-0.37	0.081
100.00	-60.94	-6.39	0.00	-235.2	0.00	235.21	3,958.05	1,007.81	4,391.91	3,929.63	3.91	-0.39	0.075
105.00	-58.88	-6.27	0.00	-203.2	0.00	203.25	3,889.95	981.56	4,166.15	3,760.65	4.33	-0.41	0.069
107.00	-53.74	-5.83	0.00	-190.7	0.00	190.70	3,862.18	971.06	4,077.51	3,693.56	4.5	-0.41	0.066
109.00	-51.19	-5.56	0.00	-179.0	0.00	179.04	3,834.12	960.56	3,989.82	3,626.76	4.68	-0.42	0.063
110.00	-50.79	-5.48	0.00	-173.5	0.00	173.47	3,819.97	955.31	3,946.34	3,593.47	4.76	-0.42	0.062
114.25	-49.12	-5.39	0.00	-150.2	0.00	150.18	3,759.02	933.00	3,764.18	3,452.88	5.15	-0.44	0.057
115.00	-48.66	-5.34	0.00	-146.1	0.00	146.13	3,748.12	929.07	3,732.48	3,428.22	5.22	-0.44	0.056
117.00	-46.93	-5.20	0.00	-135.4	0.00	135.45	3,718.86	918.57	3,648.61	3,362.69	5.4	-0.45	0.053
120.00	-45.13	-5.13	0.00	-119.8	0.00	119.85	3,718.63	918.48	3,647.96	3,362.18	5.69	-0.45	0.048
120.60	-44.58	-4.92	0.00	-116.8	0.00	116.78	3,709.79	915.33	3,622.98	3,342.59	5.74	-0.46	0.047
125.00	-42.93	-4.76	0.00	-95.1	0.00	95.13	3,644.16	892.24	3,442.46	3,199.89	6.17	-0.47	0.042
130.00	-33.48	-3.77	0.00	-71.3	0.00	71.33	3,567.82	865.99	3,242.92	3,039.89	6.66	-0.48	0.033
135.00	-31.73	-3.60	0.00	-52.5	0.00	52.47	3,489.60	839.74	3,049.34	2,882.32	7.16	-0.48	0.027
140.00	-30.02	-3.48	0.00	-34.5	0.00	34.47	3,409.52	813.49	2,861.72	2,727.33	7.68	-0.49	0.021
142.00	-19.45	-2.40	0.00	-27.5	0.00	27.52	3,376.96	802.99	2,788.34	2,666.10	7.88	-0.49	0.016
145.00	-18.57	-2.33	0.00	-20.3	0.00	20.32	3,327.56	787.24	2,680.06	2,575.07	8.19	-0.49	0.013
146.20	-18.16	-2.24	0.00	-17.5	0.00	17.52	3,306.00	780.95	2,637.34	2,537.71	8.32	-0.5	0.012
150.00	-11.28	-1.53	0.00	-9.0	0.00	9.01	3,221.55	761.00	2,504.35	2,409.10	8.71	-0.5	0.007
151.40	-8.26	-1.05	0.00	-6.9	0.00	6.86	3,190.44	753.65	2,456.21	2,362.55	8.86	-0.5	0.005
152.00	-7.55	-0.96	0.00	-6.2	0.00	6.23	3,177.11	750.50	2,435.73	2,342.75	8.92	-0.5	0.005
153.00	-6.29	-0.78	0.00	-5.3	0.00	5.28	3,154.88	745.25	2,401.78	2,309.92	9.02	-0.5	0.004
155.00	-5.76	-0.67	0.00	-3.7	0.00	3.72	3,110.44	734.75	2,334.59	2,244.96	9.23	-0.5	0.004
160.00	0.00	-0.62	0.00	-0.4	0.00	0.36	2,999.32	708.50	2,170.80	2,086.61	9.76	-0.5	0.000

ASSET: 302529, Vernon CT 6
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14846738_C3_07

CALCULATED FORCES

Load Case: 1.0D + 1.0W

60 mph Wind with No Ice

19 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	-74.15	-7.44	0.00	-822.4	0.00	822.43	8,840.73	2,242.37	14,495.03	13,018.39	0	0	0.072
5.00	-71.68	-7.33	0.00	-785.2	0.00	785.21	8,737.84	2,203.00	13,990.54	12,639.20	0.01	-0.01	0.070
10.00	-69.24	-7.22	0.00	-748.6	0.00	748.56	8,633.08	2,163.62	13,494.99	12,262.72	0.03	-0.03	0.069
15.00	-66.84	-7.11	0.00	-712.5	0.00	712.48	8,526.45	2,124.25	13,008.38	11,889.08	0.07	-0.04	0.068
20.00	-64.48	-7.00	0.00	-677.0	0.00	676.95	8,417.95	2,084.88	12,530.70	11,518.45	0.12	-0.06	0.066
25.00	-62.15	-6.89	0.00	-642.0	0.00	641.97	8,307.58	2,045.51	12,061.95	11,150.96	0.18	-0.07	0.065
30.00	-59.86	-6.78	0.00	-607.5	0.00	607.54	8,195.34	2,006.14	11,602.14	10,786.76	0.26	-0.08	0.064
35.00	-57.62	-6.70	0.00	-573.6	0.00	573.65	8,081.23	1,966.76	11,151.27	10,425.99	0.36	-0.1	0.062
37.00	-56.73	-6.64	0.00	-560.2	0.00	560.25	8,035.06	1,951.01	10,973.42	10,282.68	0.4	-0.1	0.062
40.00	-54.52	-6.55	0.00	-540.3	0.00	540.32	7,965.25	1,927.39	10,709.33	10,068.81	0.47	-0.11	0.061
45.00	-50.88	-6.42	0.00	-507.6	0.00	507.58	5,682.59	1,492.83	8,259.63	7,167.58	0.6	-0.13	0.080
50.00	-49.13	-6.31	0.00	-475.5	0.00	475.46	5,610.69	1,462.21	7,924.28	6,930.69	0.74	-0.14	0.077
55.00	-47.40	-6.18	0.00	-443.9	0.00	443.93	5,536.91	1,431.58	7,595.88	6,695.28	0.89	-0.16	0.075
60.00	-45.71	-6.06	0.00	-413.0	0.00	413.01	5,461.27	1,400.96	7,274.42	6,461.51	1.07	-0.18	0.072
65.00	-44.04	-5.94	0.00	-382.7	0.00	382.70	5,383.75	1,370.34	6,959.92	6,229.51	1.26	-0.19	0.070
70.00	-42.41	-5.82	0.00	-353.0	0.00	353.00	5,304.37	1,339.72	6,652.37	5,999.44	1.47	-0.21	0.067
75.00	-40.80	-5.69	0.00	-323.9	0.00	323.92	5,223.11	1,309.09	6,351.77	5,771.43	1.7	-0.23	0.064
80.00	-38.13	-5.60	0.00	-295.5	0.00	295.47	5,139.98	1,278.47	6,058.11	5,545.65	1.95	-0.24	0.061
82.00	-37.08	-5.53	0.00	-284.3	0.00	284.28	4,187.74	1,102.30	5,253.99	4,550.50	2.05	-0.25	0.071
85.00	-36.25	-5.43	0.00	-267.7	0.00	267.68	4,151.14	1,086.55	5,104.95	4,445.84	2.21	-0.26	0.069
90.00	-34.89	-5.31	0.00	-240.5	0.00	240.53	4,088.65	1,060.31	4,861.31	4,272.37	2.49	-0.28	0.065
95.00	-33.55	-5.18	0.00	-214.0	0.00	214.00	4,024.29	1,034.06	4,623.63	4,100.25	2.79	-0.29	0.061
100.00	-32.24	-5.06	0.00	-188.1	0.00	188.10	3,958.05	1,007.81	4,391.91	3,929.63	3.1	-0.31	0.056
105.00	-30.96	-4.97	0.00	-162.8	0.00	162.82	3,889.95	981.56	4,166.15	3,760.65	3.43	-0.32	0.051
107.00	-27.95	-4.67	0.00	-152.9	0.00	152.89	3,862.18	971.06	4,077.51	3,693.56	3.57	-0.33	0.049
109.00	-26.82	-4.42	0.00	-143.6	0.00	143.56	3,834.12	960.56	3,989.82	3,626.76	3.7	-0.33	0.047
110.00	-26.57	-4.36	0.00	-139.1	0.00	139.14	3,819.97	955.31	3,946.34	3,593.47	3.77	-0.34	0.046
114.25	-25.53	-4.29	0.00	-120.6	0.00	120.62	3,759.02	933.00	3,764.18	3,452.88	4.08	-0.35	0.042
115.00	-25.21	-4.26	0.00	-117.4	0.00	117.40	3,748.12	929.07	3,732.48	3,428.22	4.13	-0.35	0.041
117.00	-24.17	-4.16	0.00	-108.9	0.00	108.89	3,718.86	918.57	3,648.61	3,362.69	4.28	-0.35	0.039
120.00	-22.91	-4.11	0.00	-96.4	0.00	96.41	3,718.63	918.48	3,647.96	3,362.18	4.51	-0.36	0.035
120.60	-22.69	-3.94	0.00	-94.0	0.00	93.95	3,709.79	915.33	3,622.98	3,342.59	4.55	-0.36	0.034
125.00	-21.67	-3.82	0.00	-76.6	0.00	76.63	3,644.16	892.24	3,442.46	3,199.89	4.89	-0.37	0.030
130.00	-16.78	-3.02	0.00	-57.5	0.00	57.53	3,567.82	865.99	3,242.92	3,039.89	5.28	-0.38	0.024
135.00	-15.70	-2.90	0.00	-42.4	0.00	42.44	3,489.60	839.74	3,049.34	2,882.32	5.68	-0.39	0.019
140.00	-14.64	-2.81	0.00	-28.0	0.00	27.96	3,409.52	813.49	2,861.72	2,727.33	6.09	-0.39	0.015
142.00	-9.66	-1.89	0.00	-22.3	0.00	22.34	3,376.96	802.99	2,788.34	2,666.10	6.25	-0.39	0.011
145.00	-9.13	-1.84	0.00	-16.7	0.00	16.68	3,327.56	787.24	2,680.06	2,575.07	6.5	-0.39	0.009
146.20	-8.91	-1.77	0.00	-14.5	0.00	14.47	3,306.00	780.95	2,637.34	2,537.71	6.6	-0.39	0.008
150.00	-5.10	-1.31	0.00	-7.7	0.00	7.73	3,221.55	761.00	2,504.35	2,409.10	6.91	-0.4	0.005
151.40	-3.97	-0.88	0.00	-5.9	0.00	5.90	3,190.44	753.65	2,456.21	2,362.55	7.03	-0.4	0.004
152.00	-3.63	-0.80	0.00	-5.4	0.00	5.37	3,177.11	750.50	2,435.73	2,342.75	7.08	-0.4	0.003
153.00	-3.08	-0.65	0.00	-4.6	0.00	4.58	3,154.88	745.25	2,401.78	2,309.92	7.16	-0.4	0.003
155.00	-2.78	-0.57	0.00	-3.3	0.00	3.28	3,110.44	734.75	2,334.59	2,244.96	7.33	-0.4	0.002
160.00	0.00	-0.55	0.00	-0.4	0.00	0.42	2,999.32	708.50	2,170.80	2,086.61	7.74	-0.4	0.000

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

Spectral Response Acceleration for Short Period (S_S):	0.182
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.055
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}):	0.194
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.088
Seismic Response Coefficient (C_s):	0.031
Upper Limit C_s :	0.031
Lower Limit C_s :	0.030
Period based on Rayleigh Method (sec):	1.880
Redundancy Factor (p):	1.000
Seismic Force Distribution Exponent (k):	1.690
Total Unfactored Dead Load:	74.160 k
Seismic Base Shear (E):	2.310 k

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
44	157.5	737	3,828	0.024	56	913
43	154	302	1,510	0.010	22	374
42	152.5	153	750	0.005	11	189
41	151.7	92	448	0.003	7	114
40	150.7	233	1,123	0.007	16	289
39	148.1	643	3,007	0.019	44	796
38	145.6	206	936	0.006	14	255
37	143.5	521	2,313	0.015	34	646
36	141	416	1,790	0.011	26	515
35	137.5	1,057	4,363	0.028	63	1,310
34	132.5	1,083	4,196	0.026	61	1,341
33	127.5	1,137	4,128	0.026	60	1,408
32	122.8	1,021	3,481	0.022	51	1,265
31	120.3	141	463	0.003	7	174
30	118.5	1,254	4,024	0.025	59	1,553
29	116	846	2,619	0.016	38	1,048
28	114.625	319	969	0.006	14	396
27	112.125	1,041	3,041	0.019	44	1,289
26	109.5	248	695	0.004	10	307
25	108	503	1,379	0.009	20	623
24	106	507	1,347	0.008	20	628
23	102.5	1,285	3,227	0.020	47	1,592
22	97.5	1,310	3,024	0.019	44	1,623
21	92.5	1,336	2,820	0.018	41	1,655
20	87.5	1,361	2,616	0.016	38	1,687
19	83.5	829	1,472	0.009	21	1,027
18	81	1,051	1,773	0.011	26	1,302
17	77.5	2,667	4,173	0.026	61	3,303
16	72.5	1,605	2,244	0.014	33	1,988
15	67.5	1,634	2,025	0.013	29	2,025
14	62.5	1,664	1,810	0.011	26	2,061
13	57.5	1,694	1,600	0.010	23	2,098
12	52.5	1,723	1,396	0.009	20	2,135
11	47.5	1,753	1,199	0.008	17	2,172
10	42.5	3,632	2,058	0.013	30	4,500
9	38.5	2,212	1,061	0.007	15	2,740
8	36	888	380	0.002	6	1,100
7	32.5	2,247	809	0.005	12	2,783

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh	Seismic	Height Above Base	Weight	W _z	C _{vx}	Horizontal Force	Vertical Force
Segment		(ft)	(lb)	(lb-ft)		(lb)	(lb)
6		27.5	2,285	620	0.004	9	2,830
5		22.5	2,323	449	0.003	7	2,878
4		17.5	2,361	298	0.002	4	2,925
3		12.5	2,399	172	0.001	2	2,972
2		7.5	2,437	74	0.000	1	3,019
1		2.5	2,476	12	0.000	0	3,067
Decibel DB844H90E-XY		160	168	896	0.006	13	208
Generic Flat Low Profile Platform		160	1,875	9,996	0.063	145	2,323
CBNG 39GHz VectaStar NR gNB		153	159	785	0.005	11	197
Samsung MT6407-77A		153	245	1,210	0.008	18	303
Samsung MT6407-77A		152	245	1,197	0.008	17	303
Kaelus BSF0020F3V1-1		151.4	62	299	0.002	4	76
Samsung B2/B66A RRH-BR049		151.4	253	1,229	0.008	18	314
Samsung B5/B13 RRH-BR04C		151.4	211	1,024	0.006	15	261
RFS DB-B1-6C-12AB-0Z		151.4	43	208	0.001	3	53
Raycap RVZDC-6627-PF-48		151.4	32	155	0.001	2	40
Andrew SBNHH-1D65B		151.4	304	1,477	0.009	21	377
Samsung XXDWMM-12.5-65-8T-CBRS		150	69	331	0.002	5	86
Generic Mount Reinforcement		150	600	2,868	0.018	42	743
Generic Round Platform with Handrails		150	2,500	11,950	0.075	174	3,097
Generic Round Platform with Handrails		130	2,500	9,382	0.059	137	3,097
Generic Round Platform with Handrails		107	2,500	6,750	0.042	98	3,097
Raycap DC9-48-60-24-8C-EV		146.2	16	73	0.000	1	20
Powerwave Allgon LGP21401		142	85	369	0.002	5	105
Raycap DC6-48-60-18-8F (23.5" Height)		142	20	87	0.000	1	25
Raycap DC6-48-60-18-8F ("Squid")		142	19	82	0.000	1	23
Ericsson RRUS 4426 B66		142	145	633	0.004	9	180
Ericsson RRUS 4415 B25		142	138	601	0.004	9	171
Ericsson RRUS 4478 B14 (16.5" Height)		142	180	783	0.005	11	223
Ericsson RRUS 4449 B5, B12		142	213	928	0.006	14	264
Ericsson RRUS 32 (50.8 lbs)		142	152	664	0.004	10	189
Ericsson AIR 6419 B77G		142	198	864	0.005	13	246
Ericsson Air 6449 B77D		142	245	1,067	0.007	16	303
CCI TPA-65R-BU6DA-K		142	207	902	0.006	13	256
CCI DMP65R-BU6DA		142	238	1,038	0.006	15	295
SitePro1 VFA14-H10-2120 Sector Frame		142	2,737	11,923	0.075	174	3,390
Ericsson Radio 4460 B25+B66		130	327	1,227	0.008	18	405
Ericsson Radio 4480 B71+B85A		130	252	946	0.006	14	312
Ericsson Air6449 B41		130	312	1,171	0.007	17	387
RFS APXVAALL24 43-U-NA20		130	368	1,383	0.009	20	456
RFS APXV18-206517S-C		120.6	79	262	0.002	4	98
Flush Mounts		117	195	612	0.004	9	242
Commscope RDIDC-9181-PF-48		109	22	61	0.000	1	27
Fujitsu TA08025-B605		109	225	627	0.004	9	279
Fujitsu TA08025-B604		109	192	534	0.003	8	237
JMA Wireless MX08FRO665-21		109	194	539	0.003	8	240
Totals:			74,156	158,853	1.000	2,312	91,866

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)	Height Above Base	Weight	W _z	C _{vx}	Horizontal Force	Vertical Force
Segment		(ft)	(lb)	(lb-ft)		(lb)	(lb)
44		157.5	737	3,828	0.024	56	635
43		154	302	1,510	0.010	22	260
42		152.5	153	750	0.005	11	131
41		151.7	92	448	0.003	7	79
40		150.7	233	1,123	0.007	16	201
39		148.1	643	3,007	0.019	44	554
38		145.6	206	936	0.006	14	177
37		143.5	521	2,313	0.015	34	449
36		141	416	1,790	0.011	26	358

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)
35	137.5	1,057	4,363	0.028	63	911
34	132.5	1,083	4,196	0.026	61	932
33	127.5	1,137	4,128	0.026	60	979
32	122.8	1,021	3,481	0.022	51	880
31	120.3	141	463	0.003	7	121
30	118.5	1,254	4,024	0.025	59	1,080
29	116	846	2,619	0.016	38	729
28	114.625	319	969	0.006	14	275
27	112.125	1,041	3,041	0.019	44	896
26	109.5	248	695	0.004	10	213
25	108	503	1,379	0.009	20	433
24	106	507	1,347	0.008	20	437
23	102.5	1,285	3,227	0.020	47	1,107
22	97.5	1,310	3,024	0.019	44	1,129
21	92.5	1,336	2,820	0.018	41	1,150
20	87.5	1,361	2,616	0.016	38	1,172
19	83.5	829	1,472	0.009	21	714
18	81	1,051	1,773	0.011	26	905
17	77.5	2,667	4,173	0.026	61	2,296
16	72.5	1,605	2,244	0.014	33	1,382
15	67.5	1,634	2,025	0.013	29	1,407
14	62.5	1,664	1,810	0.011	26	1,433
13	57.5	1,694	1,600	0.010	23	1,459
12	52.5	1,723	1,396	0.009	20	1,484
11	47.5	1,753	1,199	0.008	17	1,510
10	42.5	3,632	2,058	0.013	30	3,128
9	38.5	2,212	1,061	0.007	15	1,905
8	36	888	380	0.002	6	765
7	32.5	2,247	809	0.005	12	1,935
6	27.5	2,285	620	0.004	9	1,968
5	22.5	2,323	449	0.003	7	2,000
4	17.5	2,361	298	0.002	4	2,033
3	12.5	2,399	172	0.001	2	2,066
2	7.5	2,437	74	0.000	1	2,099
1	2.5	2,476	12	0.000	0	2,132
Decibel DB844H90E-XY	160	168	896	0.006	13	145
Generic Flat Low Profile Platform	160	1,875	9,996	0.063	145	1,615
CBNG 39GHz VectaStar NR gNB	153	159	785	0.005	11	137
Samsung MT6407-77A	153	245	1,210	0.008	18	211
Samsung MT6407-77A	152	245	1,197	0.008	17	211
Kaelus BSF0020F3V1-1	151.4	62	299	0.002	4	53
Samsung B2/B66A RRH-BR049	151.4	253	1,229	0.008	18	218
Samsung B5/B13 RRH-BR04C	151.4	211	1,024	0.006	15	182
RFS DB-B1-6C-12AB-0Z	151.4	43	208	0.001	3	37
Raycap RVZDC-6627-PF-48	151.4	32	155	0.001	2	28
Andrew SBNHH-1D65B	151.4	304	1,477	0.009	21	262
Samsung XXDWMM-12.5-65-8T-CBRS	150	69	331	0.002	5	60
Generic Mount Reinforcement	150	600	2,868	0.018	42	517
Generic Round Platform with Handrails	150	2,500	11,950	0.075	174	2,153
Generic Round Platform with Handrails	130	2,500	9,382	0.059	137	2,153
Generic Round Platform with Handrails	107	2,500	6,750	0.042	98	2,153
Raycap DC9-48-60-24-8C-EV	146.2	16	73	0.000	1	14
Powerwave Allgon LGP21401	142	85	369	0.002	5	73
Raycap DC6-48-60-18-8F (23.5" Height)	142	20	87	0.000	1	17
Raycap DC6-48-60-18-8F ("Squid")	142	19	82	0.000	1	16
Ericsson RRUS 4426 B66	142	145	633	0.004	9	125
Ericsson RRUS 4415 B25	142	138	601	0.004	9	119
Ericsson RRUS 4478 B14 (16.5" Height)	142	180	783	0.005	11	155
Ericsson RRUS 4449 B5, B12	142	213	928	0.006	14	183
Ericsson RRUS 32 (50.8 lbs)	142	152	664	0.004	10	131
Ericsson AIR 6419 B77G	142	198	864	0.005	13	171

ASSET: 302529, Vernon CT 6
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14846738_C3_07

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)
Ericsson Air 6449 B77D	142	245	1,067	0.007	16	211
CCI TPA-65R-BU6DA-K	142	207	902	0.006	13	178
CCI DMP65R-BU6DA	142	238	1,038	0.006	15	205
SitePro1 VFA14-H10-2120 Sector Frame	142	2,737	11,923	0.075	174	2,357
Ericsson Radio 4460 B25+B66	130	327	1,227	0.008	18	282
Ericsson Radio 4480 B71+B85A	130	252	946	0.006	14	217
Ericsson Air6449 B41	130	312	1,171	0.007	17	269
RFS APXVAALL24 43-U-NA20	130	368	1,383	0.009	20	317
RFS APXV18-206517S-C	120.6	79	262	0.002	4	68
Flush Mounts	117	195	612	0.004	9	168
Commscope RDIDC-9181-PF-48	109	22	61	0.000	1	19
Fujitsu TA08025-B605	109	225	627	0.004	9	194
Fujitsu TA08025-B604	109	192	534	0.003	8	165
JMA Wireless MX08FRO665-21	109	194	539	0.003	8	167
Totals:		74,156	158,853	1.000	2,312	63,861

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	-88.80	-2.31	0.00	-289.42	0.00	289.42	8,840.73	2,242.37	14,495	13,018.39	0.00	0.00	0.03
5.00	-85.78	-2.32	0.00	-277.84	0.00	277.84	8,737.84	2,203.00	13,991	12,639.20	0.00	0.00	0.03
10.00	-82.81	-2.32	0.00	-266.24	0.00	266.24	8,633.08	2,163.62	13,495	12,262.72	0.01	-0.01	0.03
15.00	-79.88	-2.33	0.00	-254.62	0.00	254.62	8,526.45	2,124.25	13,008	11,889.08	0.02	-0.01	0.03
20.00	-77.00	-2.33	0.00	-242.98	0.00	242.98	8,417.95	2,084.88	12,531	11,518.45	0.04	-0.02	0.03
25.00	-74.17	-2.32	0.00	-231.35	0.00	231.35	8,307.58	2,045.51	12,062	11,150.96	0.07	-0.02	0.03
30.00	-71.39	-2.32	0.00	-219.74	0.00	219.74	8,195.34	2,006.14	11,602	10,786.76	0.09	-0.03	0.03
35.00	-70.29	-2.31	0.00	-208.16	0.00	208.16	8,081.23	1,966.76	11,151	10,425.99	0.13	-0.04	0.03
37.00	-67.55	-2.30	0.00	-203.53	0.00	203.53	8,035.06	1,951.01	10,973	10,282.68	0.14	-0.04	0.03
40.00	-63.05	-2.27	0.00	-196.63	0.00	196.63	7,965.25	1,927.39	10,709	10,068.81	0.17	-0.04	0.03
45.00	-60.88	-2.26	0.00	-185.27	0.00	185.27	5,682.59	1,492.83	8,260	7,167.58	0.21	-0.05	0.04
50.00	-58.74	-2.24	0.00	-173.98	0.00	173.98	5,610.69	1,462.21	7,924	6,930.69	0.26	-0.05	0.04
55.00	-56.64	-2.22	0.00	-162.77	0.00	162.77	5,536.91	1,431.58	7,596	6,695.28	0.32	-0.06	0.04
60.00	-54.58	-2.20	0.00	-151.66	0.00	151.66	5,461.27	1,400.96	7,274	6,461.51	0.38	-0.06	0.03
65.00	-52.56	-2.17	0.00	-140.66	0.00	140.66	5,383.75	1,370.34	6,960	6,229.51	0.45	-0.07	0.03
70.00	-50.57	-2.14	0.00	-129.78	0.00	129.78	5,304.37	1,339.72	6,652	5,999.44	0.53	-0.08	0.03
75.00	-47.27	-2.08	0.00	-119.06	0.00	119.06	5,223.11	1,309.09	6,352	5,771.43	0.61	-0.08	0.03
80.00	-45.96	-2.06	0.00	-108.64	0.00	108.64	5,139.98	1,278.47	6,058	5,545.65	0.70	-0.09	0.03
82.00	-44.94	-2.04	0.00	-104.52	0.00	104.52	4,187.74	1,102.30	5,254	4,550.50	0.74	-0.09	0.03
85.00	-43.25	-2.00	0.00	-98.40	0.00	98.40	4,151.14	1,086.55	5,105	4,445.84	0.80	-0.09	0.03
90.00	-41.60	-1.96	0.00	-88.39	0.00	88.39	4,088.65	1,060.31	4,861	4,272.37	0.90	-0.10	0.03
95.00	-39.97	-1.92	0.00	-78.58	0.00	78.58	4,024.29	1,034.06	4,624	4,100.25	1.01	-0.11	0.03
100.00	-38.38	-1.87	0.00	-68.98	0.00	68.98	3,958.05	1,007.81	4,392	3,929.63	1.12	-0.11	0.03
105.00	-37.75	-1.86	0.00	-59.61	0.00	59.61	3,889.95	981.56	4,166	3,760.65	1.24	-0.12	0.03
107.00	-34.03	-1.73	0.00	-55.90	0.00	55.90	3,862.18	971.06	4,078	3,693.56	1.29	-0.12	0.02
109.00	-32.94	-1.69	0.00	-52.44	0.00	52.44	3,834.12	960.56	3,990	3,626.76	1.34	-0.12	0.02
110.00	-31.65	-1.65	0.00	-50.75	0.00	50.75	3,819.97	955.31	3,946	3,593.47	1.37	-0.12	0.02
114.25	-31.26	-1.63	0.00	-43.74	0.00	43.74	3,759.02	933.00	3,764	3,452.88	1.48	-0.13	0.02
115.00	-30.21	-1.59	0.00	-42.52	0.00	42.52	3,748.12	929.07	3,732	3,428.22	1.50	-0.13	0.02
117.00	-28.41	-1.52	0.00	-39.33	0.00	39.33	3,718.86	918.57	3,649	3,362.69	1.55	-0.13	0.02
120.00	-28.24	-1.52	0.00	-34.76	0.00	34.76	3,718.63	918.48	3,648	3,362.18	1.63	-0.13	0.02
120.60	-26.88	-1.46	0.00	-33.85	0.00	33.85	3,709.79	915.33	3,623	3,342.59	1.65	-0.13	0.02
125.00	-25.47	-1.40	0.00	-27.42	0.00	27.42	3,644.16	892.24	3,442	3,199.89	1.77	-0.13	0.02
130.00	-19.47	-1.12	0.00	-20.42	0.00	20.42	3,567.82	865.99	3,243	3,039.89	1.91	-0.14	0.01
135.00	-18.16	-1.05	0.00	-14.83	0.00	14.83	3,489.60	839.74	3,049	2,882.32	2.06	-0.14	0.01
140.00	-17.65	-1.03	0.00	-9.56	0.00	9.56	3,409.52	813.49	2,862	2,727.33	2.21	-0.14	0.01
142.00	-11.33	-0.69	0.00	-7.51	0.00	7.51	3,376.96	802.99	2,788	2,666.10	2.27	-0.14	0.01
145.00	-11.08	-0.67	0.00	-5.45	0.00	5.45	3,327.56	787.24	2,680	2,575.07	2.36	-0.14	0.01
146.20	-10.26	-0.63	0.00	-4.64	0.00	4.64	3,306.00	780.95	2,637	2,537.71	2.39	-0.14	0.01

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
150.00	-6.04	-0.38	0.00	-2.26	0.00	2.26	3,221.55	761.00	2,504	2,409.10	2.51	-0.14	0.00
151.40	-4.81	-0.31	0.00	-1.73	0.00	1.73	3,190.44	753.65	2,456	2,362.55	2.55	-0.14	0.00
152.00	-4.32	-0.28	0.00	-1.55	0.00	1.55	3,177.11	750.50	2,436	2,342.75	2.57	-0.14	0.00
153.00	-3.44	-0.22	0.00	-1.27	0.00	1.27	3,154.88	745.25	2,402	2,309.92	2.60	-0.14	0.00
155.00	-2.53	-0.16	0.00	-0.82	0.00	0.82	3,110.44	734.75	2,335	2,244.96	2.66	-0.14	0.00
160.00	0.00	-0.16	0.00	0.00	0.00	0.00	2,999.32	708.50	2,171	2,086.61	2.81	-0.14	0.00

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

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-61.73	-2.31	0.00	-286.98	0.00	286.98	8,840.73	2,242.37	14,495	13,018.39	0.00	0.00	0.03
5.00	-59.63	-2.32	0.00	-275.41	0.00	275.41	8,737.84	2,203.00	13,991	12,639.20	0.00	0.00	0.03
10.00	-57.56	-2.32	0.00	-263.83	0.00	263.83	8,633.08	2,163.62	13,495	12,262.72	0.01	-0.01	0.03
15.00	-55.53	-2.32	0.00	-252.23	0.00	252.23	8,526.45	2,124.25	13,008	11,889.08	0.02	-0.01	0.03
20.00	-53.53	-2.32	0.00	-240.63	0.00	240.63	8,417.95	2,084.88	12,531	11,518.45	0.04	-0.02	0.03
25.00	-51.56	-2.31	0.00	-229.05	0.00	229.05	8,307.58	2,045.51	12,062	11,150.96	0.06	-0.02	0.03
30.00	-49.63	-2.30	0.00	-217.49	0.00	217.49	8,195.34	2,006.14	11,602	10,786.76	0.09	-0.03	0.03
35.00	-48.86	-2.30	0.00	-205.97	0.00	205.97	8,081.23	1,966.76	11,151	10,425.99	0.13	-0.03	0.03
37.00	-46.96	-2.29	0.00	-201.37	0.00	201.37	8,035.06	1,951.01	10,973	10,282.68	0.14	-0.04	0.03
40.00	-43.83	-2.26	0.00	-194.52	0.00	194.52	7,965.25	1,927.39	10,709	10,068.81	0.17	-0.04	0.03
45.00	-42.32	-2.24	0.00	-183.23	0.00	183.23	5,682.59	1,492.83	8,260	7,167.58	0.21	-0.05	0.03
50.00	-40.83	-2.22	0.00	-172.02	0.00	172.02	5,610.69	1,462.21	7,924	6,930.69	0.26	-0.05	0.03
55.00	-39.38	-2.20	0.00	-160.90	0.00	160.90	5,536.91	1,431.58	7,596	6,695.28	0.32	-0.06	0.03
60.00	-37.94	-2.18	0.00	-149.87	0.00	149.87	5,461.27	1,400.96	7,274	6,461.51	0.38	-0.06	0.03
65.00	-36.54	-2.15	0.00	-138.97	0.00	138.97	5,383.75	1,370.34	6,960	6,229.51	0.45	-0.07	0.03
70.00	-35.15	-2.12	0.00	-128.20	0.00	128.20	5,304.37	1,339.72	6,652	5,999.44	0.52	-0.07	0.03
75.00	-32.86	-2.06	0.00	-117.59	0.00	117.59	5,223.11	1,309.09	6,352	5,771.43	0.61	-0.08	0.03
80.00	-31.95	-2.04	0.00	-107.28	0.00	107.28	5,139.98	1,278.47	6,058	5,545.65	0.69	-0.09	0.03
82.00	-31.24	-2.02	0.00	-103.20	0.00	103.20	4,187.74	1,102.30	5,254	4,550.50	0.73	-0.09	0.03
85.00	-30.06	-1.98	0.00	-97.15	0.00	97.15	4,151.14	1,086.55	5,105	4,445.84	0.79	-0.09	0.03
90.00	-28.91	-1.94	0.00	-87.26	0.00	87.26	4,088.65	1,060.31	4,861	4,272.37	0.89	-0.10	0.03
95.00	-27.79	-1.90	0.00	-77.56	0.00	77.56	4,024.29	1,034.06	4,624	4,100.25	1.00	-0.10	0.03
100.00	-26.68	-1.85	0.00	-68.08	0.00	68.08	3,958.05	1,007.81	4,392	3,929.63	1.11	-0.11	0.02
105.00	-26.24	-1.83	0.00	-58.83	0.00	58.83	3,889.95	981.56	4,166	3,760.65	1.23	-0.12	0.02
107.00	-23.66	-1.71	0.00	-55.17	0.00	55.17	3,862.18	971.06	4,078	3,693.56	1.28	-0.12	0.02
109.00	-22.90	-1.67	0.00	-51.75	0.00	51.75	3,834.12	960.56	3,990	3,626.76	1.33	-0.12	0.02
110.00	-22.00	-1.63	0.00	-50.08	0.00	50.08	3,819.97	955.31	3,946	3,593.47	1.35	-0.12	0.02
114.25	-21.73	-1.61	0.00	-43.17	0.00	43.17	3,759.02	933.00	3,764	3,452.88	1.46	-0.12	0.02
115.00	-21.00	-1.57	0.00	-41.96	0.00	41.96	3,748.12	929.07	3,732	3,428.22	1.48	-0.13	0.02
117.00	-19.75	-1.50	0.00	-38.81	0.00	38.81	3,718.86	918.57	3,649	3,362.69	1.53	-0.13	0.02
120.00	-19.63	-1.50	0.00	-34.30	0.00	34.30	3,718.63	918.48	3,648	3,362.18	1.61	-0.13	0.02
120.60	-18.68	-1.44	0.00	-33.40	0.00	33.40	3,709.79	915.33	3,623	3,342.59	1.63	-0.13	0.02
125.00	-17.70	-1.38	0.00	-27.06	0.00	27.06	3,644.16	892.24	3,442	3,199.89	1.75	-0.13	0.01
130.00	-13.53	-1.10	0.00	-20.16	0.00	20.16	3,567.82	865.99	3,243	3,039.89	1.89	-0.14	0.01
135.00	-12.62	-1.04	0.00	-14.63	0.00	14.63	3,489.60	839.74	3,049	2,882.32	2.04	-0.14	0.01
140.00	-12.27	-1.01	0.00	-9.44	0.00	9.44	3,409.52	813.49	2,862	2,727.33	2.18	-0.14	0.01
142.00	-7.88	-0.68	0.00	-7.41	0.00	7.41	3,376.96	802.99	2,788	2,666.10	2.24	-0.14	0.01
145.00	-7.70	-0.66	0.00	-5.38	0.00	5.38	3,327.56	787.24	2,680	2,575.07	2.33	-0.14	0.00
146.20	-7.13	-0.62	0.00	-4.58	0.00	4.58	3,306.00	780.95	2,637	2,537.71	2.37	-0.14	0.00
150.00	-4.20	-0.37	0.00	-2.23	0.00	2.23	3,221.55	761.00	2,504	2,409.10	2.48	-0.14	0.00
151.40	-3.34	-0.30	0.00	-1.71	0.00	1.71	3,190.44	753.65	2,456	2,362.55	2.52	-0.14	0.00
152.00	-3.00	-0.27	0.00	-1.53	0.00	1.53	3,177.11	750.50	2,436	2,342.75	2.54	-0.14	0.00
153.00	-2.39	-0.22	0.00	-1.25	0.00	1.25	3,154.88	745.25	2,402	2,309.92	2.57	-0.14	0.00
155.00	-1.76	-0.16	0.00	-0.81	0.00	0.81	3,110.44	734.75	2,335	2,244.96	2.63	-0.14	0.00
160.00	0.00	-0.16	0.00	0.00	0.00	0.00	2,999.32	708.50	2,171	2,086.61	2.78	-0.14	0.00

ANALYSIS SUMMARY

Load Case	Base Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	32.19	0.00	88.97	0.00	0.00	3571.45	45.00	0.32
0.9D + 1.0W	32.18	0.00	66.72	0.00	0.00	3547.03	45.00	0.31
1.2D + 1.0Di + 1.0Wi	9.42	0.00	122.85	0.00	0.00	1040.37	45.00	0.11
1.2D + 1.0Ev + 1.0Eh	2.31	0.00	88.80	0.00	0.00	289.42	45.00	0.04
0.9D - 1.0Ev + 1.0Eh	2.31	0.00	61.73	0.00	0.00	286.98	45.00	0.03
1.0D + 1.0W	7.44	0.00	74.15	0.00	0.00	822.43	45.00	0.08

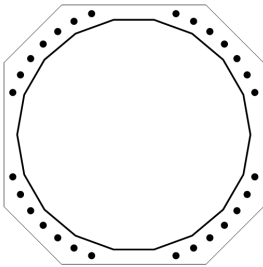
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
3571.45	88.97	32.19

PLATE PARAMETERS (ID# 20589)

Width:	81	in
Shape:	Square	
Thickness:	3.25	in
Grade:	A572-55	
Yield Strength:	55	ksi
Tensile Strength:	70	ksi
Clip Length:	18	in
Rod Detail Type:	d	
Clear Distance	3.625	in
Base Weld Size:	0.125	in
Orientation Offset:	-	°
Analysis Type:	Plastic	
Neutral Axis:	45	°



ANCHOR ROD PARAMETERS

Class	Arrangement	Quantity	Diameter (in)	Circle (in)	Grade	F _y (ksi)	F _u (ksi)	Spacing (in)	Offset (°)
Original [ID#21131]	Cluster	28	2.25	80	A615-75	75	100	6	-

COMPONENT PROPERTIES

Component	ID	Gross Area (in ²)	Net Area (in ²)	Individual Inertia (in ⁴)	Moment of Inertia (in ⁴)	Threads/in
Pole	72.13"ø x 0.5625" (18 Sides)	125.8291	-	-	80573.95	-
Bolt Group	Original (28) 2.25"ø	3.9761	3.2477	0.8393	68075.97	4.5

REACTION DISTRIBUTION

Component	ID	Moment M _u (k-ft)	Axial Load P _u (k)	Shear V _u (k)	Moment Factor
Pole	72.13"ø x 0.5625" (18 Sides)	3571.4	88.97	32.19	1.000
Bolt Group	Original (28) 2.25"ø	3571.4	-	32.19	1.000

BASE PLATE BEND LINE ANALYSIS @ 0 FT

POLE PROPERTIES					PLATE PROPERTIES		
Flat-to-Flat Diameter:	72.26	in	Flat Width:	12.741	in	Neutral Axis:	45°
Point-to-Point Diameter:	73.37	in	Flat Radians:	0.349	rad		
Orientation Offset:	-	°					
Bend Line	Chord Length (in)	Additional Length (in)	Section Modulus (in ³)	Applied Moment M _u (k-in)	Moment Capacity ΦM _n (k-in)	Flexure Result M _u /ΦM _n	
Flats	42.296	0.00	111.689	687.7	5528.6	12.4%	✓
Corners	41.182	0.00	108.745	463.3	5382.9	8.6%	✓

PLASTIC ANCHOR ROD ANALYSIS

Class	Group Quantity	Rod Diameter (in)	Applied Axial Load P _u (k)	Applied Shear Load V _u (k)	Compressive Capacity ΦP _n (k)	Interaction Result
Original	28	2.25	71.9	1.9	243.6	31.1% ✓

PIER FOUNDATION ANALYSIS

GLOBAL REACTIONS

Moment (k-ft)	Axial (k)	Shear (k)
3,571.45	88.97	32.19

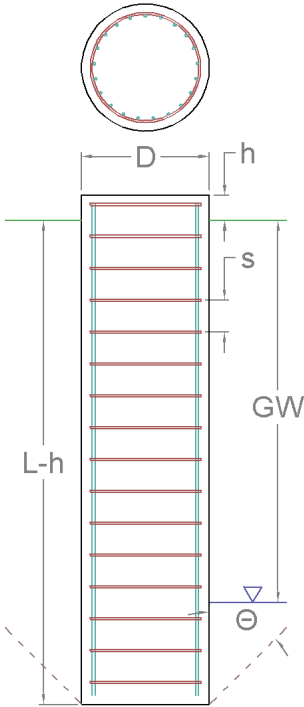
FOUNDATION PARAMETERS

Pier Diameter:	D	9.00	ft
Pier Embedment Depth:	L-h	25.0	ft
Pier Height above Grade:	h	0.50	ft
Concrete Compressive Strength:		3,000	psi
Vertical Rebar:		(40) #11 bars [60 ksi]	
Tie Rebar:	s	#5 bars @ 18.0" c/c [40 ksi]	
Rebar Clear Cover:		4.00	in

SOIL PARAMETERS

Water Table Depth [BGL]:	GW	23	ft
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Layer Depth (ft)		Unit Weight	Cohesion	Friction Angle	Ultimate Skin Friction	Ultimate Net Bearing
Top	Bottom	pcf	psf	°	psf	psf
0	2	105	0	0	0	0
2	5	105	0	38	0	0
5	26	135	0	38	500	36,250



SOIL STRENGTH ANALYSIS

Volume of Concrete (ft³)	Buoyant Weight of Concrete (k)	Skin Friction Resistance (k)	Inflection Point [BGL] (ft)
1,622.24	235.40	282.74	17.95

SOIL MOMENT ANALYSIS

Total Lateral Resistance (k)	Moment at Inflection Point, M _u (k-ft)	Additional Resistance (k-ft)	Nominal Moment Capacity, ΦM _n (k-ft)	Soil Moment Usage, M _u / ΦM _n
3,731.42	4,165.30	0.00	13,146.60	31.7% 

SOIL COMPRESSION ANALYSIS

Compressive Bearing Resistance (k)	Compressive Force, P _u (k)	Additional Resistance (k)	Nominal Compressive Capacity, ΦP _n (k)	Soil Compressive Usage, P _u / ΦP _n
2,306.13	133.13	0.00	1,941.65	6.9% 

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
97.34	29,000	0.9	0.75	0.65

PIER REINFORCING MOMENT ANALYSIS

Design Moment, M_u (k-ft)	Nominal Moment Capacity, $\Phi_b M_n$ (k-ft)	Bending Reinforcement Ratio	Pier Rebar Flexure Usage, $M_u / \Phi_b M_n$
3,590.69	13,368.15	0.01	26.9%



PIER REINFORCING COMPRESSION ANALYSIS

Buoyant Weight of Concrete (k)	Design Compression, P_u (k)	Nominal Compressive Capacity, $\Phi_p P_n$ (k)	Pier Rebar Compressive Usage, $P_u / \Phi_p P_n$
235.40	133.13	14,011.47	1.0%



PIER REINFORCING SHEAR ANALYSIS

Design Shear, V_u (k)	Nominal Shear Capacity, $\Phi_v V_n$ (k)	Pier Rebar Shear Usage, $V_u / \Phi_v V_n$
381.11	845.58	45.1%





Colliers Engineering & Design CT, PC
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
856.797.0412
peter.albano@collierseng.com

Antenna Mount Analysis Report with Hardware Upgrades and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10228109
Colliers Engineering & Design Project #:24777034 (Rev. 1)

March 27, 2024

Site Information

Site ID: 5000243787-VZW / VERNON 3 CT
Site Name: VERNON 3 CT
Carrier Name: Verizon Wireless
Address: 777 Talcottville Road
Vernon, Connecticut 06066
Tolland County
Latitude: 41.863453°
Longitude: -72.483283°

Structure Information

Tower Type: Monopole
Mount Type: 12.50-Ft Platform

FUZE ID # 17288076

Analysis Results

Platform: 60.3% **Pass w/ Hardware Upgrades***

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

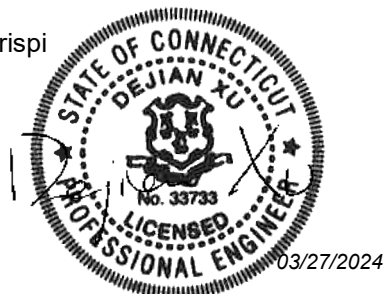
***Contractor PMI Requirements:

Included at the end of this MA report

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

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

Report Prepared By: Matthew Crispi



Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 675076, dated March 5, 2024</i>
<i>Final Loading Configuration</i>	<i>Filter Add Scope Provided by Verizon Wireless</i>
<i>Mount Mapping Report</i>	<i>Paul J. Ford & Company, Project #: VZW: 468776, dated April 14, 2021</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting Connecticut, Project #: 21777584, Dated May 27, 2021</i>
<i>Post Modification Inspection Report</i>	<i>Colliers Engineering & Design, Project #: 21777584, Dated June 26, 2023</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 120 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.992
Seismic Parameters:	S_s : 0.186 g S_1 : 0.055 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (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
149.00	152.00	4	CBNG	CBNG Integrated Unit	Added
	150.00	3	Samsung	XXDWMM-12.5-65-8T-CBRS	Retained
		3	Samsung	MT6407-77A	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	RFS	DB-B1-6C-12AB-0Z	
		6	Andrew	SBNHH-1D65B	
		1	Raycap	RRFDC-3315-PF-48*	
		4	KAelus	KA-6030	
		1	Raycap	RVZDC-6627-PF-48	Added

* Equipment to be flush mounted directly to the Monopole. They are not mounted on the platform mount and are not included in this mount analysis.

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Mount Pipe	38.0%	Pass
Support Rail Connection	34.1%	Pass
Support Rail	19.0%	Pass
Kicker	9.5%	Pass
Face Horizontal	17.0%	Pass
Corner Plate	30.0%	Pass
Cross Arm Plate	31.4%	Pass
Grating Support	26.1%	Pass
Standoff Crossmember	60.3%	Pass
Standoff	16.3%	Pass
Mount Connection	34.5%	Pass

Structure Rating – (Controlling Utilization of all Components)	60.3%
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* Results valid after hardware upgrades noted in the PMI Requirements are installed.

Mount Connection Envelope Reactions:

Connection Description	Elev. AGL (Ft)	Node Label	Envelope Wind Reactions				Envelope Wind + Ice Reactions			
			Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)	Axial (Lbs)	Lateral (Lbs)	Moment (K-Ft)	Torsion (K-Ft)
Sector A Standoff	149	N3	275	4628	0.254	1.758	210	5075	0.234	0.593
Sector B Standoff	149	N30 A	273	4516	0.244	1.735	232	4876	0.082	0.513
Sector C Standoff	149	N59	255	4277	0.319	1.355	110	4655	0.182	0.437
Sector A Reinforcement	146.3	N93 A	1860	2603	0.000	0.000	3228	4522	0.000	0.000
Sector B Reinforcement	146.3	N94 A	1792	2507	0.000	0.000	3092	4328	0.000	0.000
Sector C Reinforcement	146.3	N95	1761	2462	0.000	0.000	2986	4178	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	28.9	28.9	41.7	41.7
0.5	37.7	37.7	55.9	55.9
1	45.6	45.6	69.3	69.3

Notes:

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

Requirements:

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

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

Contractor shall install OVP on a new 36" long P2 SCH40 pipe connected to the standoff between the alpha and beta sectors.

Contractor shall replace the mount pipes in positions 3 and 4 with 96" long P2 SCH40 mount pipes on all sectors.

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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

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

MDG #: 5000243787

SMART Project #: 10228109

Fuze Project ID: 17288076

Purpose – to provide SMART Tool structural vendor the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- *Photos taken at ground level*
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.
 - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
- ☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

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

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

Issue:

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

Contractor shall install OVP on a new 36" long P2 SCH40 pipe connected to the standoff between the alpha and beta sectors.

Contractor shall replace the mount pipes in positions 3 and 4 with 96" long P2 SCH40 mount pipes on all sectors.

Response:

Special Instruction Confirmation:

- ☐ The contractor has read and acknowledges the above special instructions.
- ☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.

☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

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

Comments:

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

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

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

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

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

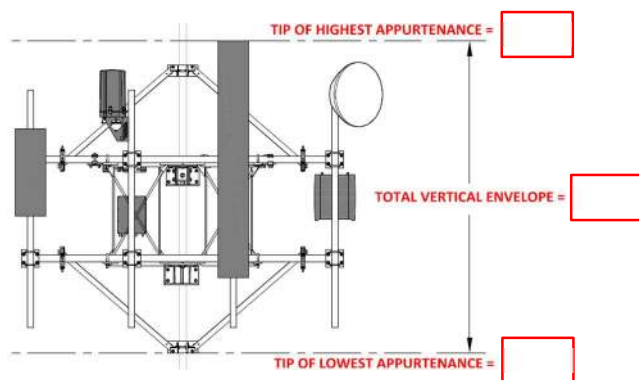


Illustration #1

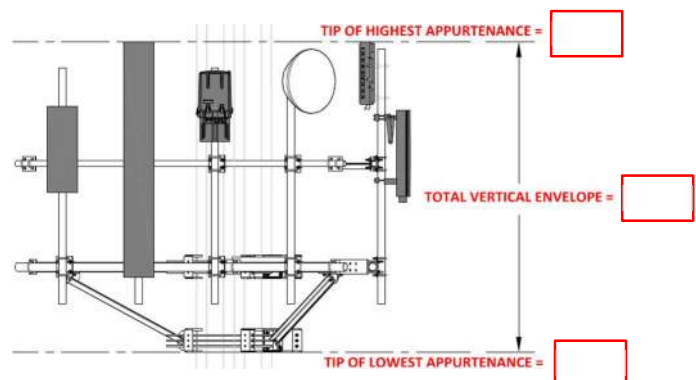
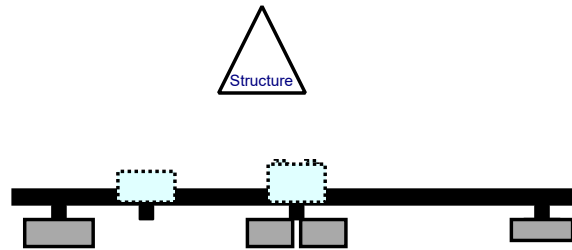


Illustration #2

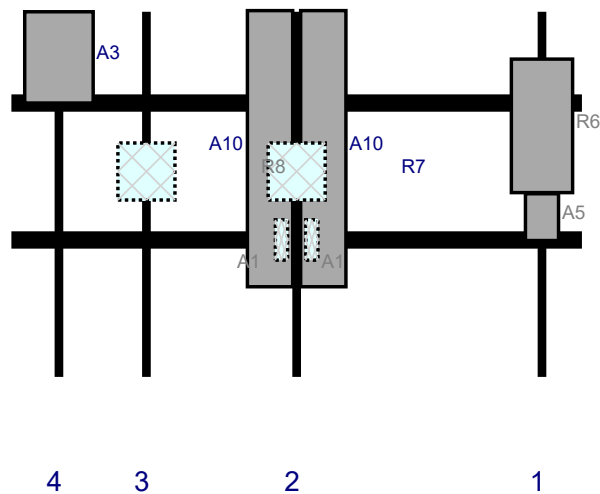
Certifying Individual:

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

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	XXDWMM-12.5-65-8T-CBRS	12.3	8.7	139.5	1	a	Front	54	0	Retained	01/16/2023
R6	MT6407-77A	35.1	16.1	139.5	1	a	Front	30	0	Retained	01/16/2023
A10	SBNHH-1D65B	72.6	11.9	75	2	a	Front	36	7	Retained	01/16/2023
A10	SBNHH-1D65B	72.6	11.9	75	2	b	Front	36	-7	Retained	01/16/2023
A1	KA-6030	10.6	3.2	75	2	a	Behind	60	4	Added	
A1	KA-6030	10.6	3.2	75	2	b	Behind	60	-4	Added	
R7	B2/B66A RRH-BR049	15	15	75	2	a	Behind	42	0	Retained	01/16/2023
R8	B5/B13 RRH-BR04C	15	15	35.5	3	a	Behind	42	0	Retained	01/16/2023
A3	CBNG 39GHz Integrated Unit	24	18	12.5	4	a	Front	12	0	Added	
OVP2	RVZDC-6627-PF-48	29.5	16.5		Member					Added	
M104	DB-B1-6C-12AB-OZ	28.9	15.7		Member					Retained	01/16/2023

Sector: B

3/27/2024

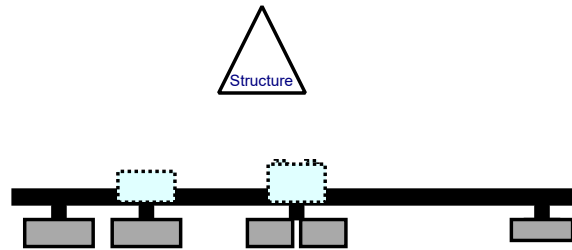
Structure Type: Monopole

10228109

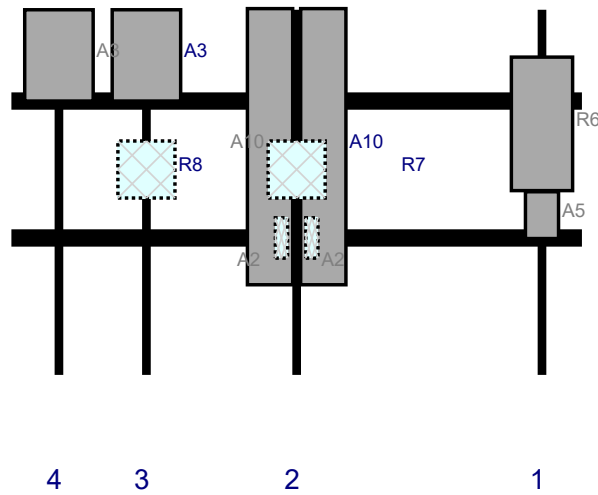
Mount Elev: 149.00

Page: 2

Plan View



Front View - Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	XXDWMM-12.5-65-8T-CBRS	12.3	8.7	139.5	1	a	Front	54	0	Retained	01/16/2023
R6	MT6407-77A	35.1	16.1	139.5	1	a	Front	30	0	Retained	01/16/2023
A10	SBNHH-1D65B	72.6	11.9	75	2	a	Front	36	7	Retained	01/16/2023
A10	SBNHH-1D65B	72.6	11.9	75	2	b	Front	36	-7	Retained	01/16/2023
A2	KA-6030	10.6	3.2	75	2	a	Behind	60	4	Added	
A2	KA-6030	10.6	3.2	75	2	b	Behind	60	-4	Added	
R7	B2/B66A RRH-BR049	15	15	75	2	a	Behind	42	0	Retained	01/16/2023
A3	CBNG 39GHz Integrated Unit	24	18	35.5	3	a	Front	12	0	Added	
R8	B5/B13 RRH-BR04C	15	15	35.5	3	a	Behind	42	0	Retained	01/16/2023
A3	CBNG 39GHz Integrated Unit	24	18	12.5	4	a	Front	12	0	Added	

Sector: C

3/27/2024

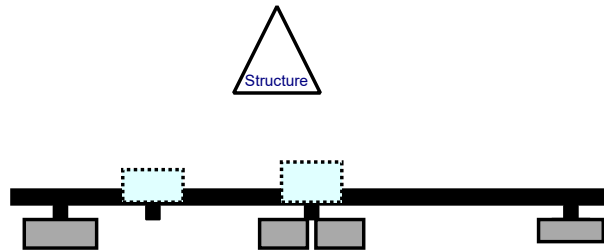
Structure Type: Monopole

10228109

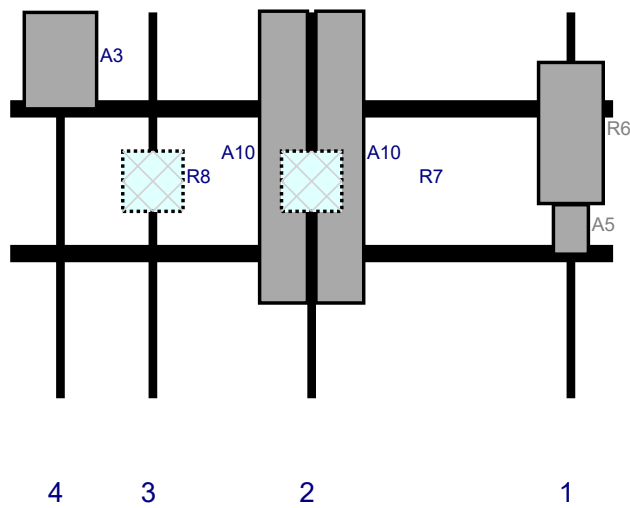
Mount Elev: 149.00

Page: 3

Plan View



Front View - Looking at Structure



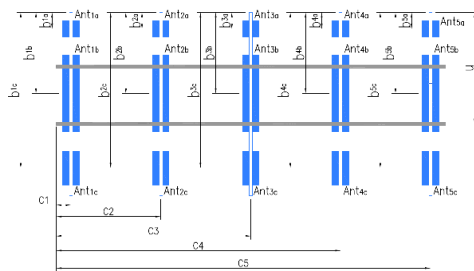
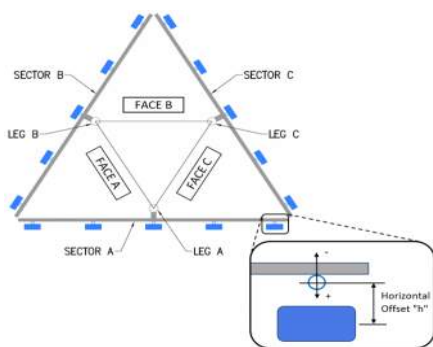
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A5	XXDWMM-12.5-65-8T-CBRS	12.3	8.7	139.5	1	a	Front	54	0	Retained	01/16/2023
R6	MT6407-77A	35.1	16.1	139.5	1	a	Front	30	0	Retained	01/16/2023
A10	SBNHH-1D65B	72.6	11.9	75	2	a	Front	36	7	Retained	01/16/2023
A10	SBNHH-1D65B	72.6	11.9	75	2	b	Front	36	-7	Retained	01/16/2023
R7	B2/B66A RRH-BR049	15	15	75	2	a	Behind	42	0	Retained	01/16/2023
R8	B5/B13 RRH-BR04C	15	15	35.5	3	a	Behind	42	0	Retained	01/16/2023
A3	CBNG 39GHz Integrated Unit	24	18	12.5	4	a	Front	12	0	Added	



FCC #
UNKNOWN

Tower Owner:	ATC	Mapping Date:	4/14/2021
Site Name:	ATC : VERNON, VZW : VERNON 3 CT	Tower Type:	Monopole
Site Number or ID:	VZW : 468776	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	149.5

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



Antenna Layout (Looking Out From Tower)

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	PIPE 2.375" Ø X 0.15" X 72" LON	50.75	10.50	C1	PIPE 2.375" Ø X 0.15" X 72" LONG	50.00	11.00
A2	PIPE 2.375" Ø X 0.15" X 72" LON	48.75	75.00	C2	PIPE 2.375" Ø X 0.15" X 72" LONG	49.50	75.00
A3	PIPE 2.375" Ø X 0.15" X 72" LON	48.25	114.50	C3	PIPE 2.375" Ø X 0.15" X 72" LONG	49.25	118.50
A4	PIPE 2.375" Ø X 0.15" X 72" LON	45.75	137.75	C4	PIPE 2.375" Ø X 0.15" X 72" LONG	46.00	143.50
A5				C5			
A6				C6			
B1	PIPE 2.375" Ø X 0.15" X 72" LON	52.25	12.50	D1			
B2	PIPE 2.375" Ø X 0.15" X 72" LON	48.25	75.50	D2			
B3	PIPE 2.375" Ø X 0.15" X 72" LON	47.75	116.50	D3			
B4	PIPE 2.375" Ø X 0.15" X 72" LON	46.25	142.25	D4			
B5				D5			
B6				D6			
Distance between bottom rail and bottom CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							7
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							6
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):				Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):			
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.							

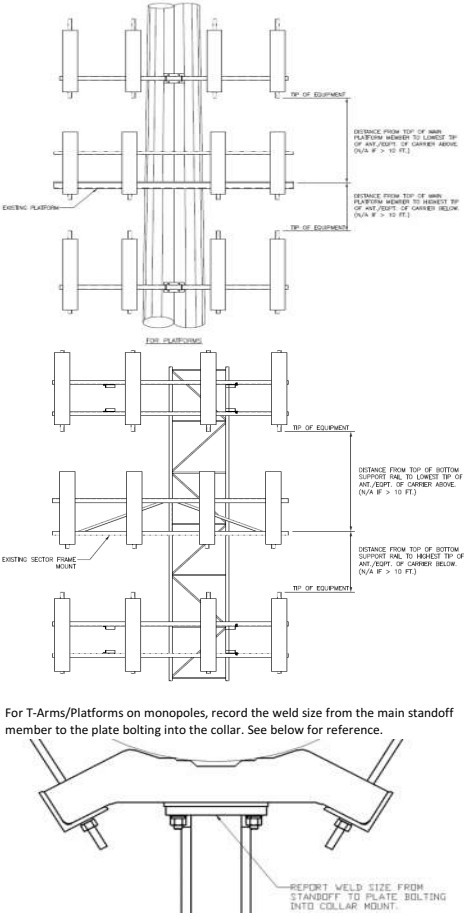
[illegible]

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B										
Sector A:	90.00	Deg	Leg A:			Deg		Ant _{1a}	B66a RRH 4x45	11.80	7.20	25.80		152.604	15.00	-6.00		98
Sector B:	210.00	Deg	Leg B:			Deg		Ant _{1b}	(2)SBNHH-1D65B	11.90	7.10	72.00		150.813	36.50	10.50	180.00	21
Sector C:	330.00	Deg	Leg C:			Deg		Ant _{1c}										
Sector D:		Deg	Leg D:			Deg		Ant _{2a}	UHFA, B25 RRH 4x30	12.00	7.18	21.20		152.063	17.50	-7.00		101
								Ant _{2b}	LNx-6514DS-A1M	11.90	7.10	72.70		150.417	37.25	7.50	180.00	21
								Ant _{2c}										
Climbing Facility Information								Ant _{3a}	B13 RRH4x30	11.80	7.50	20.90		151.938	18.50	-7.25		104
Climbing Facility	Corrosion Type:		N/A					Ant _{3b}										
	Access:		Climbing path was unobstructed.					Ant _{3c}										
	Condition:		Good condition.					Ant _{4a}	AHCA	12.50	7.25	13.75		151.938	17.00	-7.00		104
								Ant _{4b}	QUAD656C0000G	20.50	7.20	74.50		150.375	35.75	10.50	190.00	21
								Ant _{4c}										
								Ant _{5a}										
								Ant _{5b}										
								Ant _{5c}										
								Ant on Standoff										
								Ant on Standoff										
								Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	25.66			46.00	8.00		104
								Ant on Tower										
Sector C																		
								Ant _{1a}	B66a RRH 4x45	11.80	7.20	25.80		152.583	13.00	-6.00		109
								Ant _{1b}	(2)SBNHH-1D65B	11.90	7.10	72.00		150.625	36.50	10.50	300.00	28
								Ant _{1c}										
								Ant _{2a}	UHFA, B25 RRH 4x30	12.00	7.18	21.20		152.083	18.50	-7.00		112
								Ant _{2b}	LNx-6514DS-A1M	11.90	7.10	72.70		150.521	37.25	7.50	300.00	28
								Ant _{2c}										
								Ant _{3a}	B13 RRH4x30	11.80	7.50	20.90		151.438	26.00	-7.25		113
								Ant _{3b}										
								Ant _{3c}										
								Ant _{4a}	AHCA	12.50	7.25	13.75		151.667	20.00	-7.00		115
								Ant _{4b}	QUAD656C0000G	20.50	7.20	74.50		150.354	35.75	10.50	300.00	28
								Ant _{4c}										
								Ant _{5a}										
								Ant _{5b}										
								Ant _{5c}										
								Ant on Standoff										
								Ant on Standoff										
								Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	25.66			46.00	8.00		109
								Ant on Tower										
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										

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.

Please insert a photo of the mount centerline measurement here.



Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #
1	TOTAL COAX (8) : (6)FH1-5/8, (2)1.5" Ø HYBRID	
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:	TOTAL COAX (14) : (12)FH1-5/8, (2)1.5" Ø HYBRID	
Type of Light:		Photo #
Lighting Technology:		Photo #
Elevation (AGL) at base of light (Ft.):		Photo #
Is a service loop available?		Photo #
Is beacon installed on an extension?		Photo #
Additional Comments:		

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.



**PAUL J. FORD
& COMPANY**

Antenna Mount Mapping Form (PATENT PENDING)

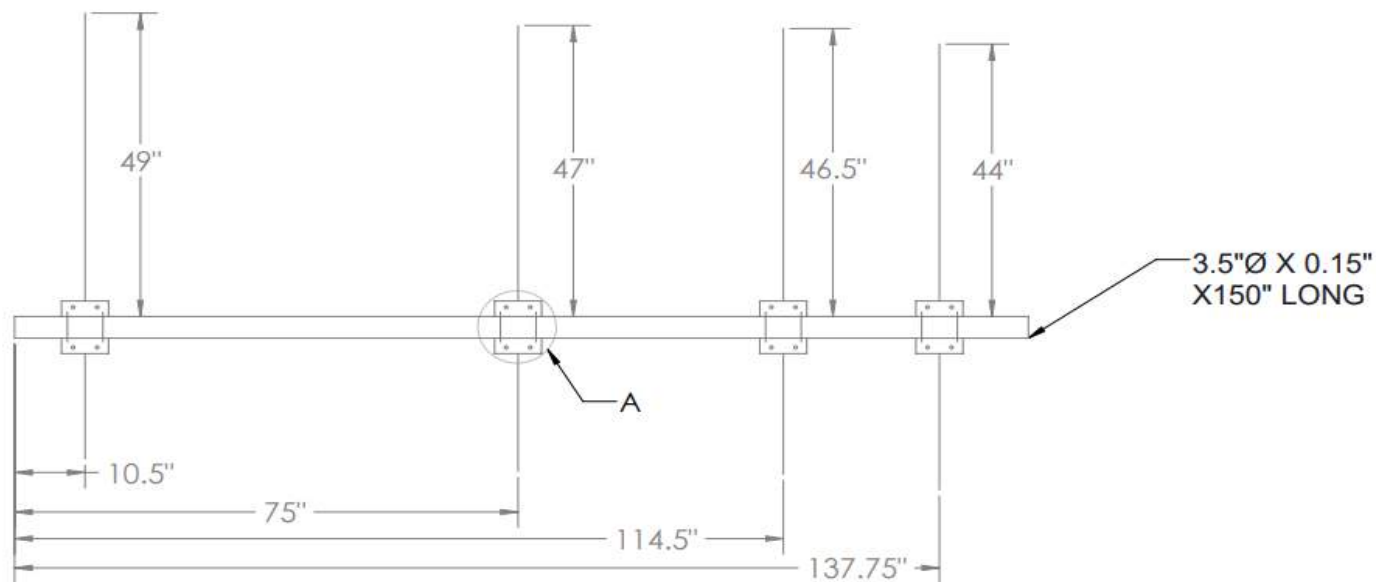
FCC #

UNKNOWN

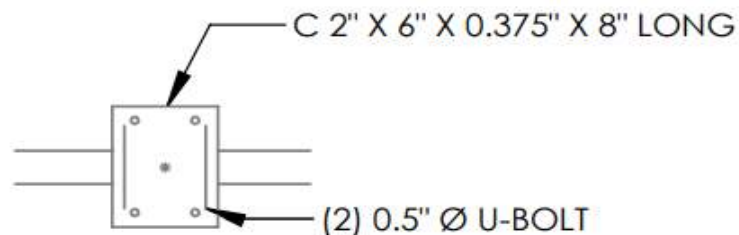
Tower Owner:	ATC	Mapping Date:	4/14/2021
Site Name:	ATC : VERNON, VZW : VERNON 3 CT	Tower Type:	Monopole
Site Number or ID:	VZW : 468776	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	Mount Elevation (Ft.):	149.5

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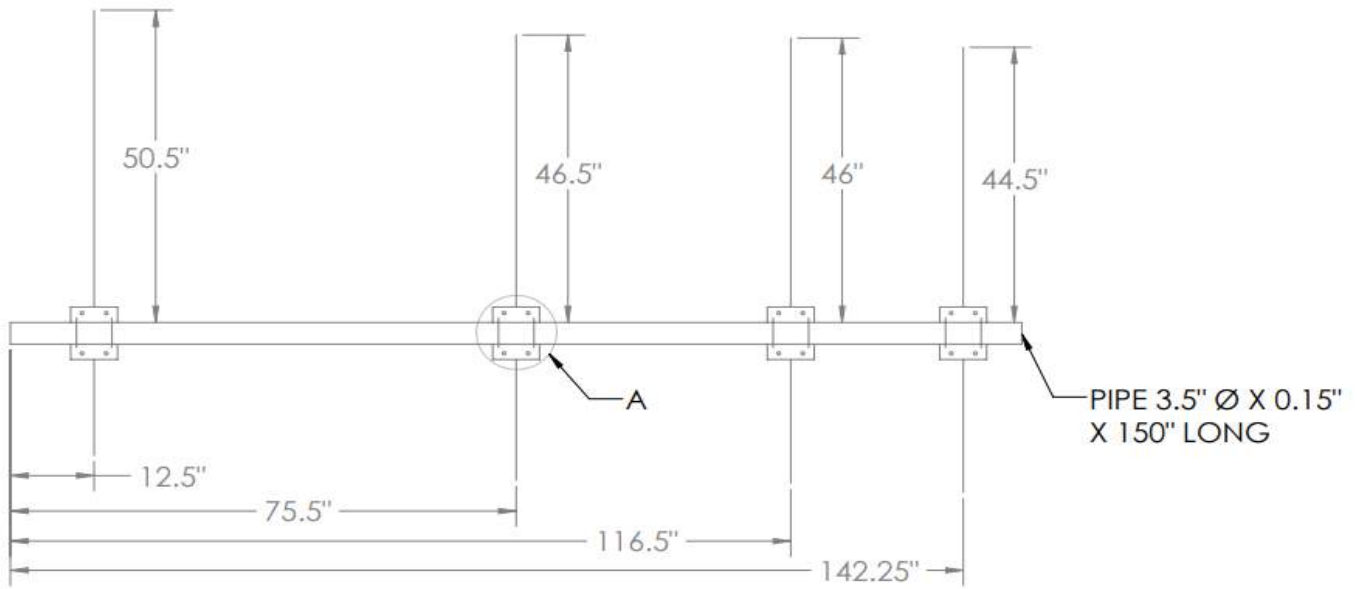
Please Insert Sketches of the Antenna Mount



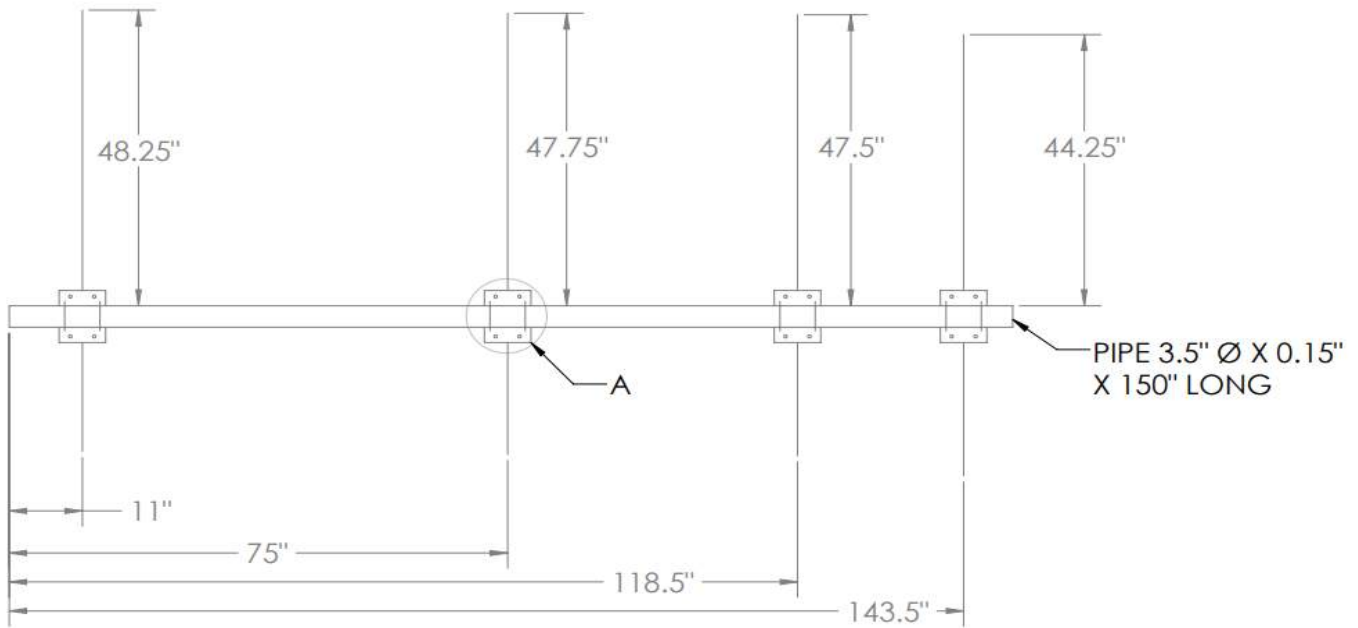
SECTOR A



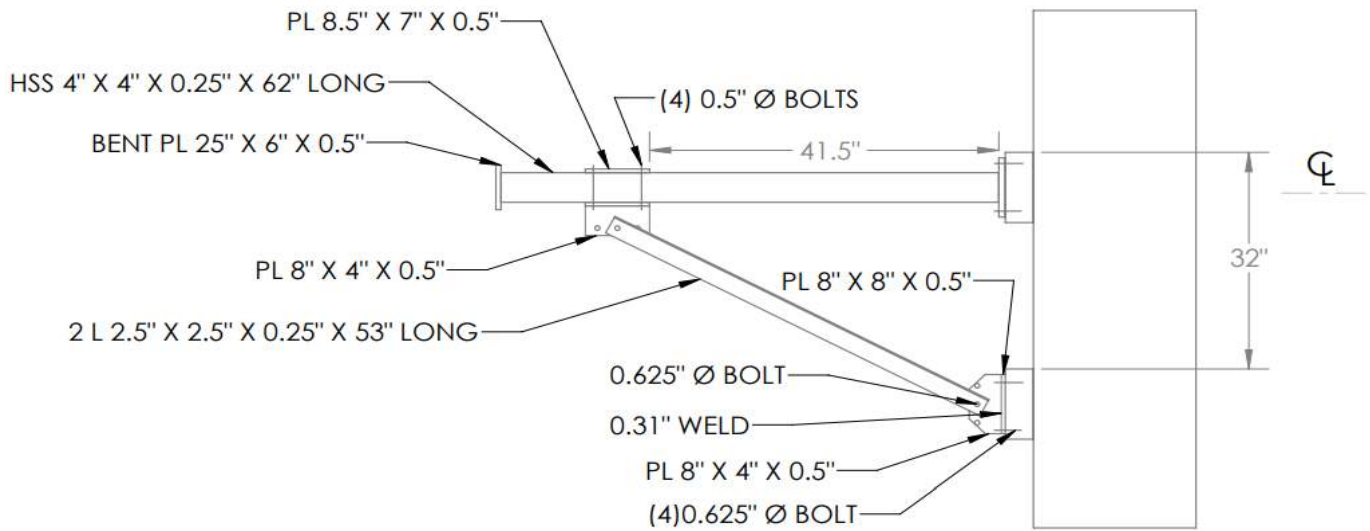
DETAIL A



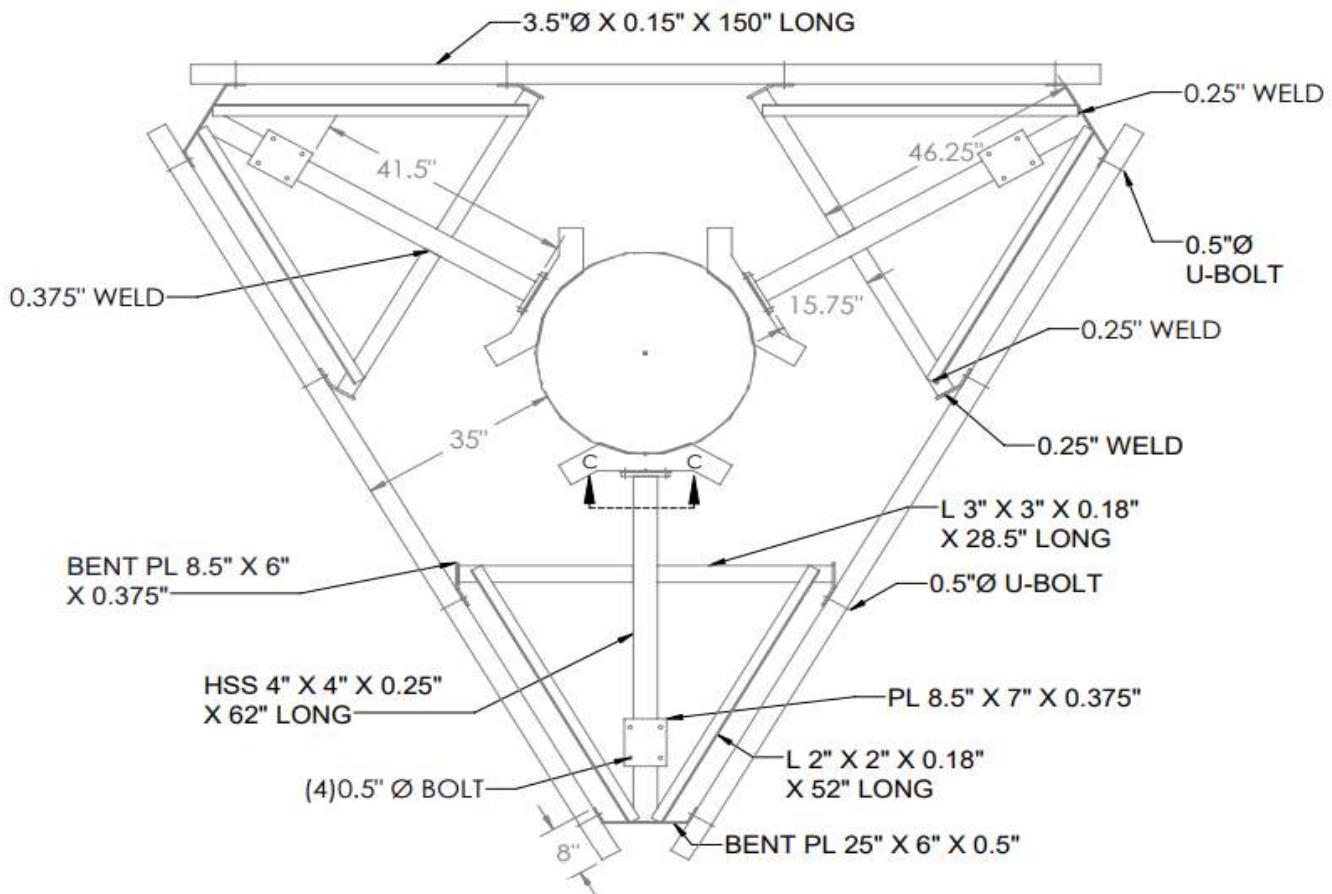
SECTOR B



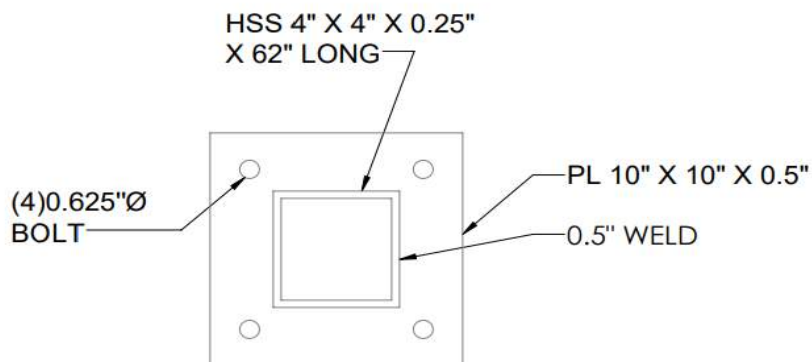
SECTOR C



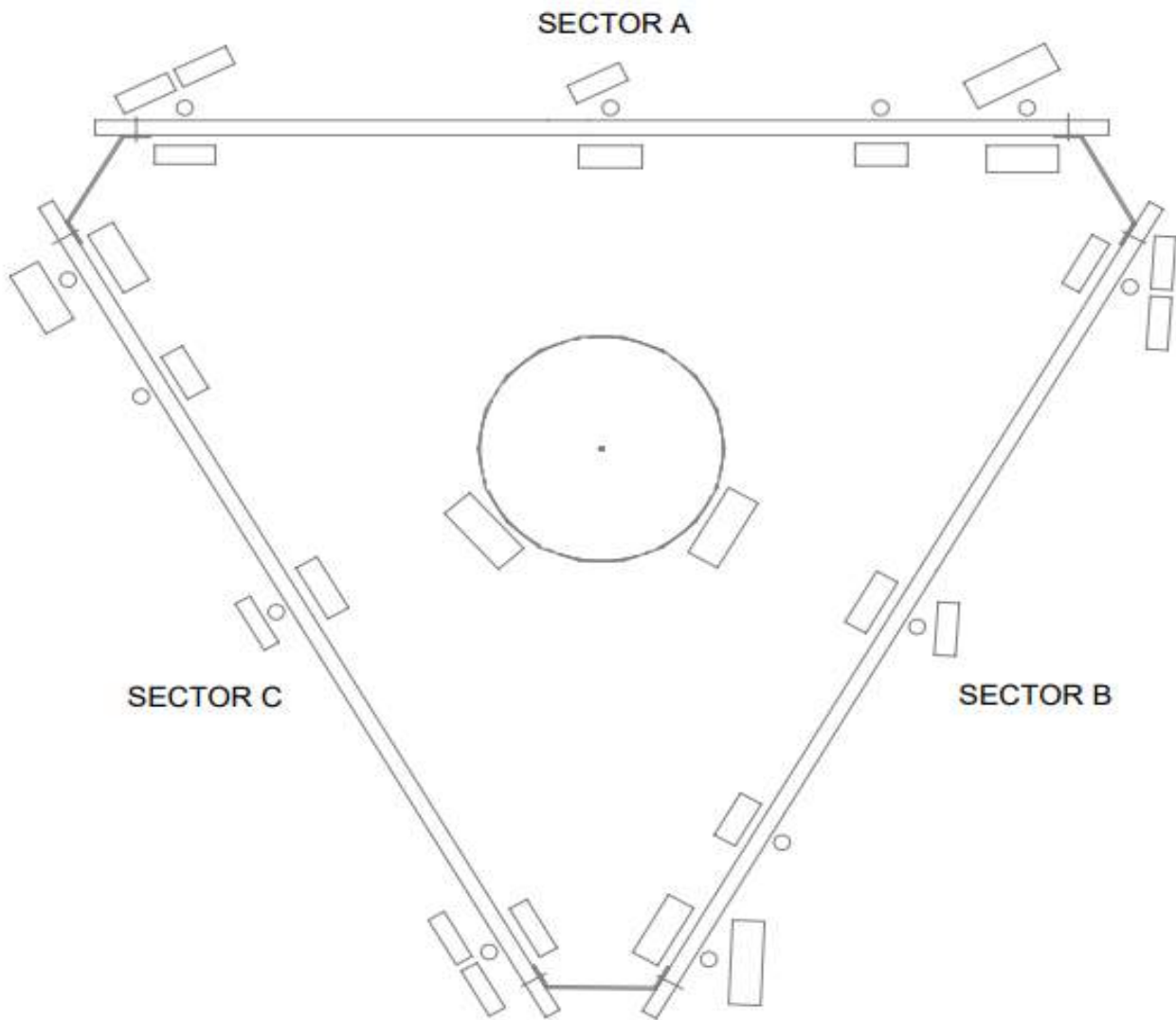
STAND OFF VIEW



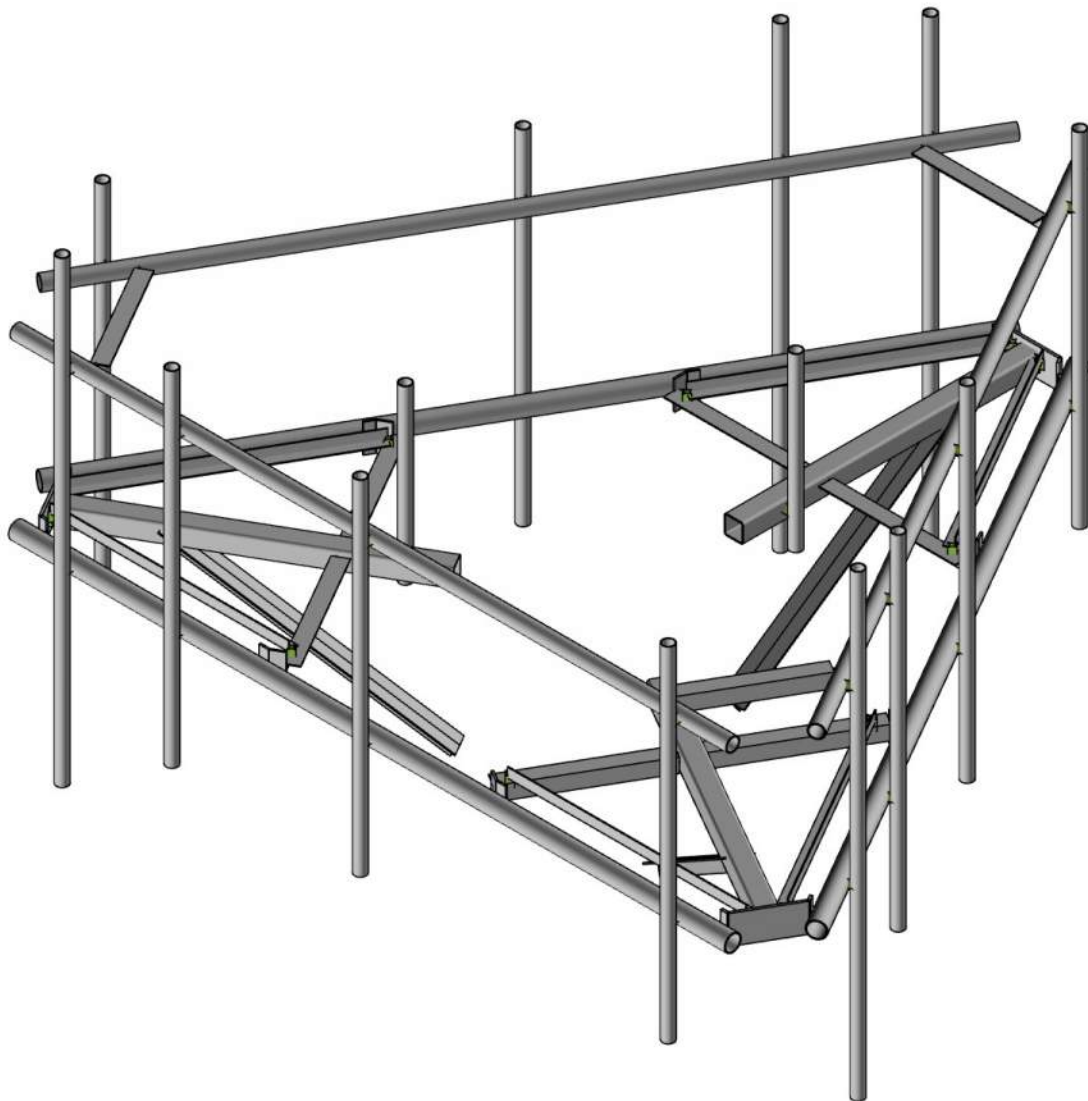
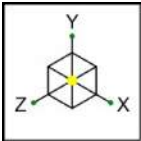
MOUNT PLAN VIEW



SECTION C-C



ANTENNA PLAN VIEW



Colliers Engineering & D...

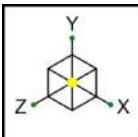
AJH

5000243787-VZW_MT_LO_H

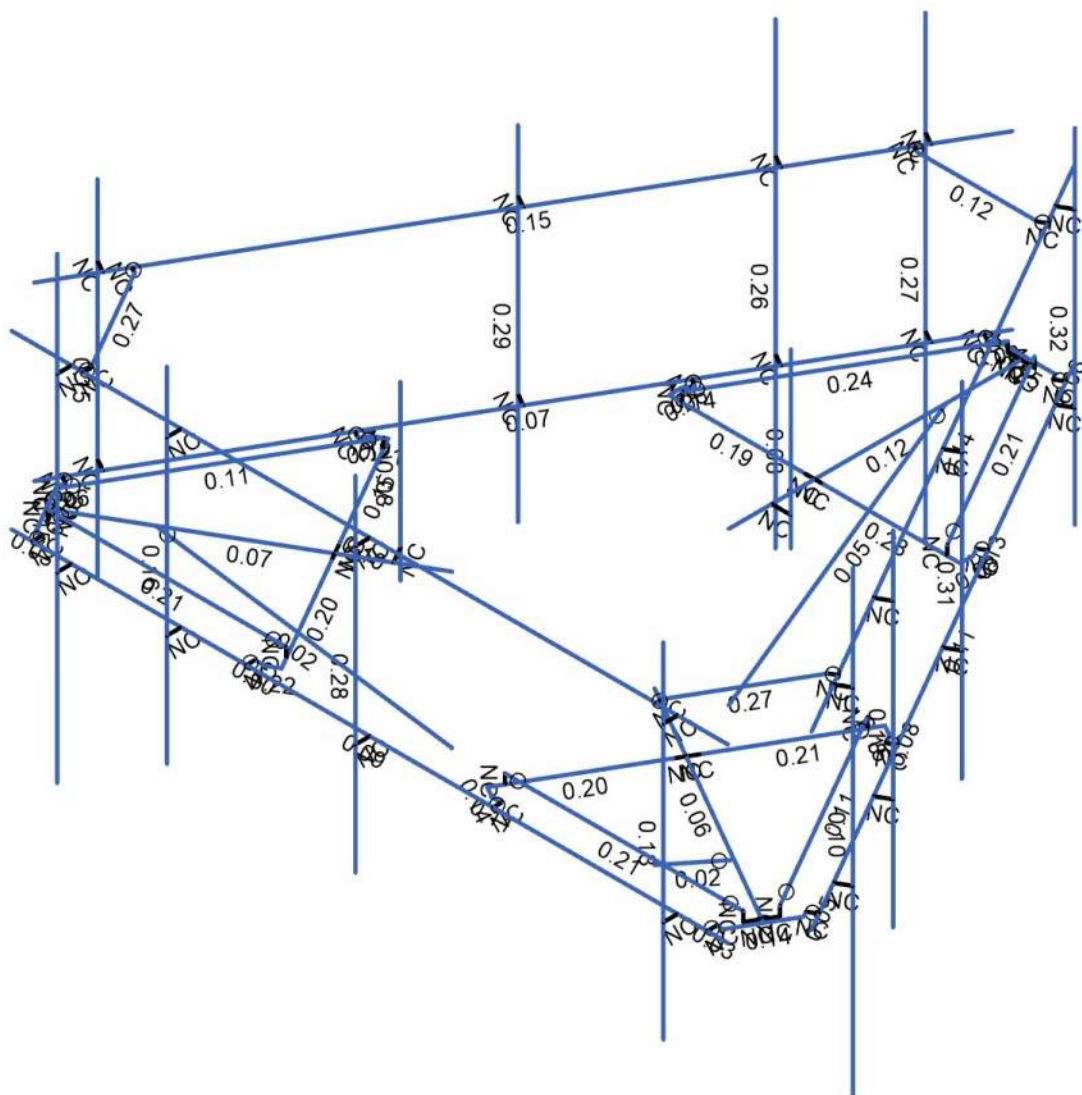
SK-1

Mar 27, 2024 at 03:02 PM

5000243787-VZW_MT_LO...



Code Check (LC 1)	
No Calc	
> 1.0	
.90-1.0	
.75-.90	
.50-.75	
0-.50	



Member Code Checks Displayed
Results for LC 1, 1.2D+1.0Wo (0 Deg)



Colliers Engineering & D...

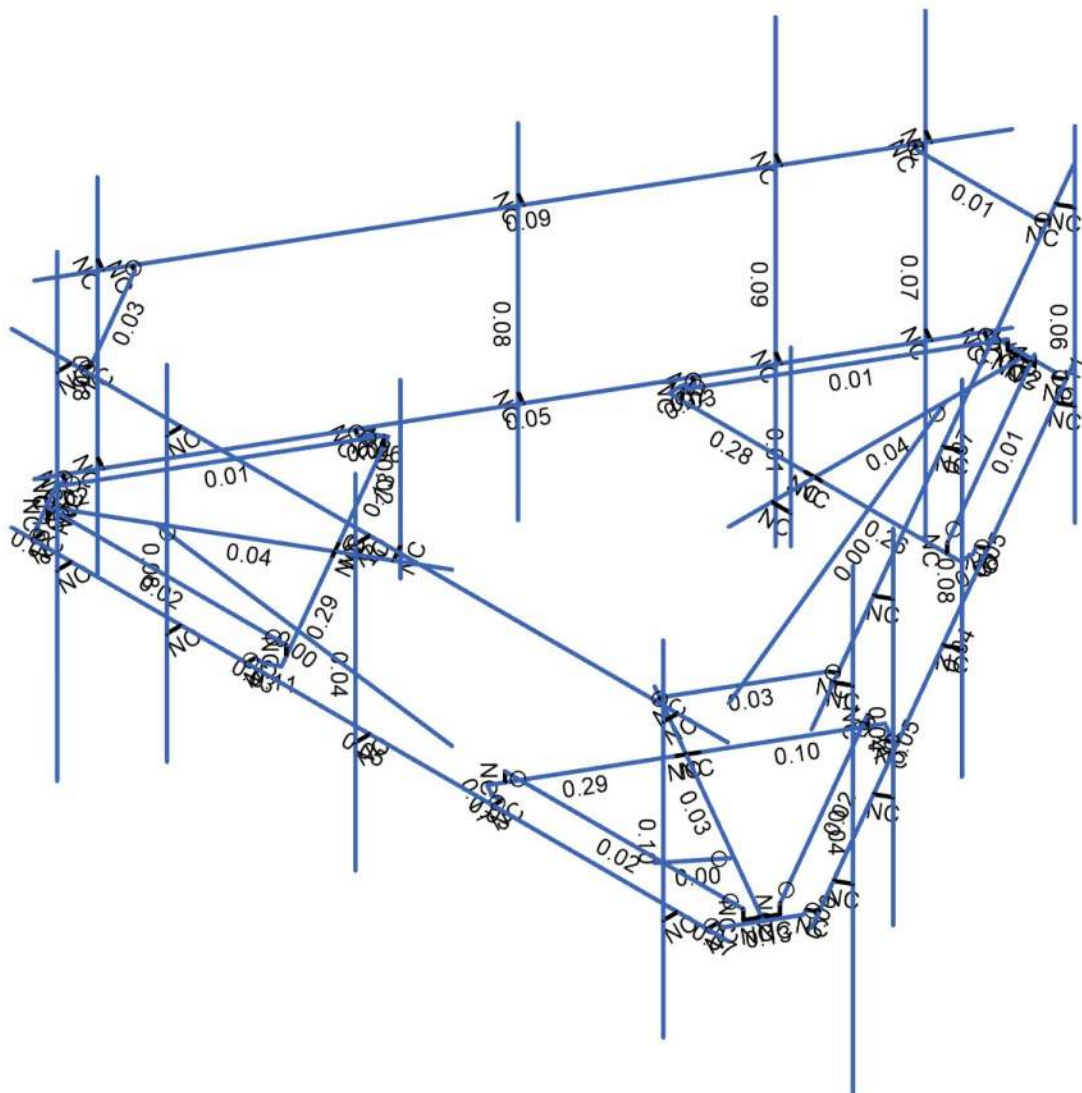
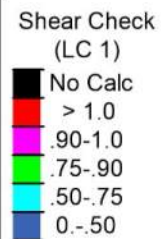
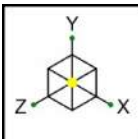
AJH

5000243787-VZW_MT_LO_H

SK-2

Mar 27, 2024 at 03:02 PM

5000243787-VZW_MT_LO...



Member Shear Checks Displayed
Results for LC 1, 1.2D+1.0Wo (0 Deg)



Colliers Engineering & D...

AJH

5000243787-VZW_MT_LO_H

SK-3

Mar 27, 2024 at 03:02 PM

5000243787-VZW_MT_LO...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
1	Antenna D	None				123		
2	Antenna Di	None				123		
3	Antenna Wo (0 Deg)	None				123		
4	Antenna Wo (30 Deg)	None				123		
5	Antenna Wo (60 Deg)	None				123		
6	Antenna Wo (90 Deg)	None				123		
7	Antenna Wo (120 Deg)	None				123		
8	Antenna Wo (150 Deg)	None				123		
9	Antenna Wo (180 Deg)	None				123		
10	Antenna Wo (210 Deg)	None				123		
11	Antenna Wo (240 Deg)	None				123		
12	Antenna Wo (270 Deg)	None				123		
13	Antenna Wo (300 Deg)	None				123		
14	Antenna Wo (330 Deg)	None				123		
15	Antenna Wi (0 Deg)	None				123		
16	Antenna Wi (30 Deg)	None				123		
17	Antenna Wi (60 Deg)	None				123		
18	Antenna Wi (90 Deg)	None				123		
19	Antenna Wi (120 Deg)	None				123		
20	Antenna Wi (150 Deg)	None				123		
21	Antenna Wi (180 Deg)	None				123		
22	Antenna Wi (210 Deg)	None				123		
23	Antenna Wi (240 Deg)	None				123		
24	Antenna Wi (270 Deg)	None				123		
25	Antenna Wi (300 Deg)	None				123		
26	Antenna Wi (330 Deg)	None				123		
27	Antenna Wm (0 Deg)	None				123		
28	Antenna Wm (30 Deg)	None				123		
29	Antenna Wm (60 Deg)	None				123		
30	Antenna Wm (90 Deg)	None				123		
31	Antenna Wm (120 Deg)	None				123		
32	Antenna Wm (150 Deg)	None				123		
33	Antenna Wm (180 Deg)	None				123		
34	Antenna Wm (210 Deg)	None				123		
35	Antenna Wm (240 Deg)	None				123		
36	Antenna Wm (270 Deg)	None				123		
37	Antenna Wm (300 Deg)	None				123		
38	Antenna Wm (330 Deg)	None				123		
39	Structure D	None		-1				3
40	Structure Di	None					62	3
41	Structure Wo (0 Deg)	None					124	
42	Structure Wo (30 Deg)	None					124	
43	Structure Wo (60 Deg)	None					124	
44	Structure Wo (90 Deg)	None					124	
45	Structure Wo (120 Deg)	None					124	
46	Structure Wo (150 Deg)	None					124	
47	Structure Wo (180 Deg)	None					124	
48	Structure Wo (210 Deg)	None					124	
49	Structure Wo (240 Deg)	None					124	
50	Structure Wo (270 Deg)	None					124	
51	Structure Wo (300 Deg)	None					124	
52	Structure Wo (330 Deg)	None					124	
53	Structure Wi (0 Deg)	None					124	
54	Structure Wi (30 Deg)	None					124	
55	Structure Wi (60 Deg)	None					124	

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Point	Distributed	Area(Member)
56	Structure Wi (90 Deg)	None					124	
57	Structure Wi (120 Deg)	None					124	
58	Structure Wi (150 Deg)	None					124	
59	Structure Wi (180 Deg)	None					124	
60	Structure Wi (210 Deg)	None					124	
61	Structure Wi (240 Deg)	None					124	
62	Structure Wi (270 Deg)	None					124	
63	Structure Wi (300 Deg)	None					124	
64	Structure Wi (330 Deg)	None					124	
65	Structure Wm (0 Deg)	None					124	
66	Structure Wm (30 Deg)	None					124	
67	Structure Wm (60 Deg)	None					124	
68	Structure Wm (90 Deg)	None					124	
69	Structure Wm (120 Deg)	None					124	
70	Structure Wm (150 Deg)	None					124	
71	Structure Wm (180 Deg)	None					124	
72	Structure Wm (210 Deg)	None					124	
73	Structure Wm (240 Deg)	None					124	
74	Structure Wm (270 Deg)	None					124	
75	Structure Wm (300 Deg)	None					124	
76	Structure Wm (330 Deg)	None					124	
77	Lm1	None				1		
78	Lm2	None				1		
79	Lv1	None				1		
80	Lv2	None				1		
81	Antenna Ev	None				123		
82	Antenna Eh (0 Deg)	None				82		
83	Antenna Eh (90 Deg)	None				82		
84	Structure Ev	ELY						3
85	Structure Eh (0 Deg)	ELZ			-0.03			3
86	Structure Eh (90 Deg)	ELX	0.03					3
87	BLC 39 Transient Area Loads	None					30	
88	BLC 40 Transient Area Loads	None					30	
89	BLC 84 Transient Area Loads	None						
90	BLC 85 Transient Area Loads	None					30	
91	BLC 86 Transient Area Loads	None					30	

Load Combinations

	Description	Solve	P-Delta	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
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	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

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N3	0	0	-2.041667	
2	N5	-2.541667	0	-3.541667	
3	N6	2.315104	0.166667	-3.541667	
4	N7	-2.315104	0.166667	-3.541667	
5	N24	0	0	-3.541667	
6	N27	0	0	-7.229167	
7	CP	0	0	0	
8	N29	2.315104	0	-3.541667	
9	N30	-2.315104	0	-3.541667	
10	N101	2.541667	0	-3.541667	
11	N102	-0.166667	0	-3.541667	
12	N103A	0.166667	0	-3.541667	
13	N104A	-2.541667	0	-3.760417	
14	N105	2.541667	0	-3.760417	
15	N131	2.458333	0	-3.904754	
16	N135	0.571615	0	-7.13219	
17	N144	-2.458333	0	-3.904754	
18	N148	-0.571615	0	-7.13219	
19	N86A	2.584629	0	-3.977671	
20	N86B	-2.584629	0	-3.977671	
21	N86C	-0.515625	0	-7.229167	
22	N87A	0.515625	0	-7.229167	
23	N86D	0.715429	0	-7.215221	
24	N86E	-0.715429	0	-7.215221	
25	N88A	0	0	-7.145833	
26	N87C	0.234238	0.166667	-7.145833	
27	N86G	0.234238	0	-7.145833	
28	N87B	-0.234238	0.166667	-7.145833	
29	N88C	-0.234238	0	-7.145833	
30	N30A	-1.768135	0	1.020833	
31	N31	-1.79634	0	3.971981	
32	N32	-4.224725	0.166667	-0.234106	
33	N33	-1.909621	0.166667	3.775772	
34	N34	-3.067173	0	1.770833	
35	N35	-6.260642	0	3.614583	
36	N37	-4.224725	0	-0.234106	
37	N38	-1.909621	0	3.775772	
38	N39	-4.338007	0	-0.430315	
39	N40	-2.98384	0	1.915171	
40	N41	-3.150507	0	1.626496	
41	N42	-1.985783	0	4.081356	
42	N43	-4.52745	0	-0.32094	
43	N44	-4.610783	0	-0.176602	
44	N45	-6.462465	0	3.071062	
45	N46	-2.15245	0	4.081356	
46	N47	-5.89085	0	4.061128	
47	N48	-4.737079	0	-0.249519	
48	N49	-2.15245	0	4.22719	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
49	N50	-6.002829	0	4.061128	
50	N51	-6.518454	0	3.168039	
51	N52	-6.606279	0	2.988031	
52	N53	-5.89085	0	4.22719	
53	N54	-6.188473	0	3.572917	
54	N55	-6.305592	0.166667	3.370061	
55	N56	-6.305592	0	3.370061	
56	N57	-6.071354	0.166667	3.775772	
57	N58	-6.071354	0	3.775772	
58	N59	1.768135	0	1.020833	
59	N60	4.338007	0	-0.430315	
60	N61	1.909621	0.166667	3.775772	
61	N62	4.224725	0.166667	-0.234106	
62	N63	3.067173	0	1.770833	
63	N64	6.260642	0	3.614583	
64	N66	1.909621	0	3.775772	
65	N67	4.224725	0	-0.234106	
66	N68	1.79634	0	3.971981	
67	N69	3.150507	0	1.626496	
68	N70	2.98384	0	1.915171	
69	N71	4.52745	0	-0.32094	
70	N72	1.985783	0	4.081356	
71	N73	2.15245	0	4.081356	
72	N74	5.89085	0	4.061128	
73	N75	4.610783	0	-0.176602	
74	N76	6.462465	0	3.071062	
75	N77	2.15245	0	4.22719	
76	N78	4.737079	0	-0.249519	
77	N79	6.518454	0	3.168039	
78	N80	6.002829	0	4.061128	
79	N81	5.89085	0	4.22719	
80	N82	6.606279	0	2.988031	
81	N83	6.188473	0	3.572917	
82	N84	6.071354	0.166667	3.775772	
83	N85	6.071354	0	3.775772	
84	N86	6.305592	0.166667	3.370061	
85	N87	6.305592	0	3.370061	
86	N86F	0	0	4.22719	
87	N87D	6.25	0	4.22719	
88	N88	-6.25	0	4.22719	
89	N90	0.535854	0	-7.526254	
90	N91	6.785854	0	3.299064	
91	N93	-6.785854	0	3.299064	
92	N94	-0.535854	0	-7.526254	
93	N93A	0	-2.666667	-2.041667	
94	N94A	-1.768135	-2.666667	1.020833	
95	N95	1.768135	-2.666667	1.020833	
96	N96	0	0	-5.833333	
97	N98	-5.051815	0	2.916667	
98	N100	5.051815	0	2.916667	
99	N99	5.375	0	4.22719	
100	N100A	5.375	0	4.47719	
101	N101A	5.375	4.229167	4.47719	
102	N102A	5.375	-1.770833	4.47719	
103	N104	0	0	4.47719	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
104	N105A	0	4.0625	4.47719	
105	N106	0	-1.9375	4.47719	
106	N107	-3.291667	0	4.22719	
107	N108	-3.291667	0	4.47719	
108	N109	-3.291667	4.0625	4.47719	
109	N110	-3.291667	-1.9375	4.47719	
110	N111	-5.208333	0	4.22719	
111	N112	-5.208333	0	4.47719	
112	N113	-5.208333	4.8125	4.47719	
113	N114	-5.208333	-3.1875	4.47719	
114	N115	3.660854	0	-2.113595	
115	N116	0.973354	0	-6.768482	
116	N117	1.18986	0	-6.893482	
117	N118	1.18986	4.229167	-6.893482	
118	N119	1.18986	-1.770833	-6.893482	
119	N120	3.87736	0	-2.238595	
120	N121	3.87736	4.0625	-2.238595	
121	N122	3.87736	-1.9375	-2.238595	
122	N123	5.306687	0	0.737072	
123	N124	5.523194	0	0.612072	
124	N125	5.523194	4.0625	0.612072	
125	N126	5.523194	-1.9375	0.612072	
126	N127	6.265021	0	2.396954	
127	N128	6.481527	0	2.271954	
128	N129	6.481527	4.8125	2.271954	
129	N130	6.481527	-3.1875	2.271954	
130	N132	-3.660854	0	-2.113595	
131	N133	-6.348354	0	2.541292	
132	N134	-6.56486	0	2.416292	
133	N135A	-6.56486	4.229167	2.416292	
134	N136	-6.56486	-1.770833	2.416292	
135	N137	-3.87736	0	-2.238595	
136	N138	-3.87736	4.0625	-2.238595	
137	N139	-3.87736	-1.9375	-2.238595	
138	N140	-2.015021	0	-4.964262	
139	N141	-2.231527	0	-5.089262	
140	N142	-2.231527	5.0625	-5.089262	
141	N143	-2.231527	-2.9375	-5.089262	
142	N144A	-1.056687	0	-6.624144	
143	N145	-1.273194	0	-6.749144	
144	N146	-1.273194	4.8125	-6.749144	
145	N147	-1.273194	-3.1875	-6.749144	
146	N146A	-2.417654	0	1.395833	
147	N147A	-2.584321	0	1.107158	
148	N148A	-2.584321	-0.5	1.107158	
149	N149	-2.584321	2.5	1.107158	
150	N150	6.25	3	4.22719	
151	N151	-6.25	3	4.22719	
152	N152	0.535854	3	-7.526254	
153	N153	6.785854	3	3.299064	
154	N154	-6.785854	3	3.299064	
155	N155	-0.535854	3	-7.526254	
156	N157	-5.	3	4.22719	
157	N159	-5.	3	4.10219	
158	N168A	0	3	4.22719	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
159	N169A	5.375	3	4.22719	
160	N170	5.375	3	4.47719	
161	N171	0	3	4.47719	
162	N172	-3.291667	3	4.22719	
163	N173	-3.291667	3	4.47719	
164	N174	-5.208333	3	4.22719	
165	N175	-5.208333	3	4.47719	
166	N176	3.660854	3	-2.113595	
167	N177	0.973354	3	-6.768482	
168	N178	1.18986	3	-6.893482	
169	N179	3.87736	3	-2.238595	
170	N180	5.306687	3	0.737072	
171	N181	5.523194	3	0.612072	
172	N182	6.265021	3	2.396954	
173	N183	6.481527	3	2.271954	
174	N184	-3.660854	3	-2.113595	
175	N185	-6.348354	3	2.541292	
176	N186	-6.56486	3	2.416292	
177	N187	-3.87736	3	-2.238595	
178	N188	-2.015021	3	-4.964262	
179	N189	-2.231527	3	-5.089262	
180	N190	-1.056687	3	-6.624144	
181	N191	-1.273194	3	-6.749144	
182	N193	6.160854	3	2.216532	
183	N195	6.052601	3	2.279032	
184	N196	-6.160854	3	2.216532	
185	N198	-6.052601	3	2.279032	
186	N188A	5.	3	4.22719	
187	N189A	5.	3	4.10219	
188	N190A	-1.160854	3	-6.443722	
189	N191A	-1.052601	3	-6.381222	
190	N192	1.160854	3	-6.443722	
191	N193A	1.052601	3	-6.381222	
192	N199	-5.208333	2	4.47719	
193	N200	-5.208333	-1	4.47719	
194	N194	0	0	-2.791667	
195	N197	0.333333	0	-2.791667	
196	N201	0.333333	-0.5	-2.791667	
197	N202	0.333333	2.5	-2.791667	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	I _{yy} [in ⁴]	I _{zz} [in ⁴]	J [in ⁴]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2X6	Beam	RECT	A36 Gr.36	Typical	3	0.062	9	0.237
4	Standoff Crossmember	L3X3X3	Beam	Single Angle	A36 Gr.36	Typical	1.09	0.948	0.948	0.014
5	Grating Support	L2X2X3	Beam	Single Angle	A36 Gr.36	Typical	0.722	0.271	0.271	0.009
6	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
7	Cross Arm Plate	PL3/8X6	Column	RECT	A36 Gr.36	Typical	2.25	0.026	6.75	0.101
8	Dual Antenna Mount Pipe	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
9	Kicker	LL2.5X2.5X4	Column	Double Angle (3/8 Gap)	A36 Gr.36	Typical	2.375	2.628	1.406	0.046
10	TES Kicker	L2.5X2X4	Column	Double Angle (3/8 Gap)	A36 Gr.36	Typical	1.07	0.372	0.656	0.024
11	Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
12	Support Rail Connection	L3X3X4	Beam	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. [$10^{-6}/^{\circ}\text{F}$]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
8	Q235	29000	11154	0.3	0.65	0.49	35	1.5	58	1.2

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M4	N3	N27		Standoff	Beam	SquareTube	A500 Gr.B Rect	Typical
2	M10	N101	N103A	180	Standoff Crossmember	Beam	Single Angle	A36 Gr.36	Typical
3	M43	N102	N5	180	Standoff Crossmember	Beam	Single Angle	A36 Gr.36	Typical
4	M46	N86C	N87A		Corner Plate	Beam	RECT	A36 Gr.36	Typical
5	M35A	N7	N30		RIGID	None	None	RIGID	Typical
6	M36A	N6	N29		RIGID	None	None	RIGID	Typical
7	M51B	N87C	N6		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
8	M52B	N7	N87B		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
9	M52	N87B	N88C		RIGID	None	None	RIGID	Typical
10	M58	N102	N24		RIGID	None	None	RIGID	Typical
11	M59	N24	N103A		RIGID	None	None	RIGID	Typical
12	M76	N101	N105		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
13	M77	N105	N131		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
14	M79	N131	N86A		RIGID	None	None	RIGID	Typical
15	M80	N87A	N135		Corner Plate	Beam	RECT	A36 Gr.36	Typical
16	M83	N135	N86D		RIGID	None	None	RIGID	Typical
17	M84	N5	N104A		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
18	M85	N104A	N144		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
19	M88	N144	N86B		RIGID	None	None	RIGID	Typical
20	M91	N86C	N148		Corner Plate	Beam	RECT	A36 Gr.36	Typical
21	M92	N148	N86E		RIGID	None	None	RIGID	Typical
22	M50	N88C	N88A		RIGID	None	None	RIGID	Typical
23	M51	N88A	N86G		RIGID	None	None	RIGID	Typical
24	M51A	N87C	N86G		RIGID	None	None	RIGID	Typical
25	M25	N30A	N35		Standoff	Beam	SquareTube	A500 Gr.B Rect	Typical
26	M26	N39	N41	180	Standoff Crossmember	Beam	Single Angle	A36 Gr.36	Typical
27	M27	N40	N31	180	Standoff Crossmember	Beam	Single Angle	A36 Gr.36	Typical
28	M28	N50	N51		Corner Plate	Beam	RECT	A36 Gr.36	Typical
29	M29	N33	N38		RIGID	None	None	RIGID	Typical
30	M30	N32	N37		RIGID	None	None	RIGID	Typical
31	M31	N55	N32		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
32	M32	N33	N57		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M33	N57	N58		RIGID	None	None	RIGID	Typical
34	M34	N40	N34		RIGID	None	None	RIGID	Typical
35	M35	N34	N41		RIGID	None	None	RIGID	Typical
36	M36	N39	N43		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
37	M37	N43	N44		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
38	M38	N44	N48		RIGID	None	None	RIGID	Typical
39	M39	N51	N45		Corner Plate	Beam	RECT	A36 Gr.36	Typical
40	M40	N45	N52		RIGID	None	None	RIGID	Typical
41	M41	N31	N42		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
42	M42	N42	N46		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
43	M43A	N46	N49		RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
44	M44	N50	N47		Corner Plate	Beam	RECT	A36 Gr.36	Typical
45	M45	N47	N53		RIGID	None	None	RIGID	Typical
46	M46A	N58	N54		RIGID	None	None	RIGID	Typical
47	M47	N54	N56		RIGID	None	None	RIGID	Typical
48	M48	N55	N56		RIGID	None	None	RIGID	Typical
49	M49	N59	N64		Standoff	Beam	SquareTube	A500 Gr.B Rect	Typical
50	M50A	N68	N70	180	Standoff Crossmember	Beam	Single Angle	A36 Gr.36	Typical
51	M51C	N69	N60	180	Standoff Crossmember	Beam	Single Angle	A36 Gr.36	Typical
52	M52A	N79	N80		Corner Plate	Beam	RECT	A36 Gr.36	Typical
53	M53	N62	N67		RIGID	None	None	RIGID	Typical
54	M54	N61	N66		RIGID	None	None	RIGID	Typical
55	M55	N84	N61		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
56	M56	N62	N86		Grating Support	Beam	Single Angle	A36 Gr.36	Typical
57	M57	N86	N87		RIGID	None	None	RIGID	Typical
58	M58A	N69	N63		RIGID	None	None	RIGID	Typical
59	M59A	N63	N70		RIGID	None	None	RIGID	Typical
60	M60	N68	N72		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
61	M61	N72	N73		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
62	M62	N73	N77		RIGID	None	None	RIGID	Typical
63	M63	N80	N74		Corner Plate	Beam	RECT	A36 Gr.36	Typical
64	M64	N74	N81		RIGID	None	None	RIGID	Typical
65	M65	N60	N71		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
66	M66	N71	N75		Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
67	M67	N75	N78		RIGID	None	None	RIGID	Typical
68	M68	N79	N76		Corner Plate	Beam	RECT	A36 Gr.36	Typical
69	M69	N76	N82		RIGID	None	None	RIGID	Typical
70	M70	N87	N83		RIGID	None	None	RIGID	Typical
71	M71	N83	N85		RIGID	None	None	RIGID	Typical
72	M72	N84	N85		RIGID	None	None	RIGID	Typical
73	M73	N88	N87D		Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
74	M74	N91	N90		Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
75	M75	N94	N93		Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
76	M76A	N98	N94A		Kicker	Column	Double Angle (3/8 Gap)	A36 Gr.36	Typical
77	M77A	N100	N95		Kicker	Column	Double Angle (3/8 Gap)	A36 Gr.36	Typical
78	M78	N96	N93A		Kicker	Column	Double Angle (3/8 Gap)	A36 Gr.36	Typical
79	M79A	N99	N100A		RIGID	None	None	RIGID	Typical
80	MP1A	N101A	N102A		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
81	M81	N86F	N104		RIGID	None	None	RIGID	Typical
82	MP2A	N105A	N106		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
83	M83A	N107	N108		RIGID	None	None	RIGID	Typical
84	MP3A	N109	N110		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
85	M85A	N111	N112		RIGID	None	None	RIGID	Typical
86	MP4A	N113	N114		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
87	M87	N116	N117		RIGID	None	None	RIGID	Typical
88	MP1C	N118	N119		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
89	M89	N115	N120		RIGID	None	None	RIGID	Typical
90	MP2C	N121	N122		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
91	M91A	N123	N124		RIGID	None	None	RIGID	Typical
92	MP3C	N125	N126		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
93	M93	N127	N128		RIGID	None	None	RIGID	Typical
94	MP4C	N129	N130		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
95	M95	N133	N134		RIGID	None	None	RIGID	Typical
96	MP1B	N135A	N136		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
97	M97	N132	N137		RIGID	None	None	RIGID	Typical
98	MP2B	N138	N139		Mount 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
99	M99	N140	N141		RIGID	None	None	RIGID	Typical
100	MP3B	N142	N143		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
101	M101	N144A	N145		RIGID	None	None	RIGID	Typical
102	MP4B	N146	N147		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
103	M103	N146A	N147A		RIGID	None	None	RIGID	Typical
104	M104	N149	N148A		Mount Pipe	Column	Pipe	A53 Gr.B	Typical
105	M105	N151	N150		Support Rail	Beam	Pipe	A53 Gr.B	Typical
106	M106	N153	N152		Support Rail	Beam	Pipe	A53 Gr.B	Typical
107	M107	N155	N154		Support Rail	Beam	Pipe	A53 Gr.B	Typical
108	M108	N157	N159		RIGID	None	None	RIGID	Typical
109	M114	N198	N159	180	Support Rail Connection	Beam	Single Angle	A36 Gr.36	Typical
110	M117	N169A	N170		RIGID	None	None	RIGID	Typical
111	M118	N168A	N171		RIGID	None	None	RIGID	Typical
112	M119	N172	N173		RIGID	None	None	RIGID	Typical
113	M120	N174	N175		RIGID	None	None	RIGID	Typical
114	M121	N177	N178		RIGID	None	None	RIGID	Typical
115	M122	N176	N179		RIGID	None	None	RIGID	Typical
116	M123	N180	N181		RIGID	None	None	RIGID	Typical
117	M124	N182	N183		RIGID	None	None	RIGID	Typical
118	M125	N185	N186		RIGID	None	None	RIGID	Typical
119	M126	N184	N187		RIGID	None	None	RIGID	Typical
120	M127	N188	N189		RIGID	None	None	RIGID	Typical
121	M128	N190	N191		RIGID	None	None	RIGID	Typical
122	M129	N193	N195		RIGID	None	None	RIGID	Typical
123	M132	N196	N198		RIGID	None	None	RIGID	Typical
124	M125A	N189A	N195	180	Support Rail Connection	Beam	Single Angle	A36 Gr.36	Typical
125	M126A	N188A	N189A		RIGID	None	None	RIGID	Typical
126	M127A	N190A	N191A		RIGID	None	None	RIGID	Typical
127	M128A	N193A	N191A	180	Support Rail Connection	Beam	Single Angle	A36 Gr.36	Typical
128	M129A	N192	N193A		RIGID	None	None	RIGID	Typical
129	M130	N194	N197		RIGID	None	None	RIGID	Typical
130	OVP2	N202	N201		Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Advanced Data

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
1	M4			Yes	N/A	None
2	M10			Yes	Default	None
3	M43			Yes	Default	None
4	M46			Yes	Default	None
5	M35A			Yes	** NA **	None
6	M36A			Yes	** NA **	None
7	M51B	OOOOOX	OOOOOX	Yes	Default	None
8	M52B	OOOOOX	OOOOOX	Yes	Default	None
9	M52			Yes	** NA **	None
10	M58			Yes	** NA **	None
11	M59			Yes	** NA **	None
12	M76			Yes	** NA **	None
13	M77			Yes	** NA **	None
14	M79		BenPIN	Yes	** NA **	None
15	M80			Yes	N/A	None
16	M83		BenPIN	Yes	** NA **	None
17	M84			Yes	** NA **	None
18	M85			Yes	** NA **	None
19	M88		BenPIN	Yes	** NA **	None
20	M91			Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
21	M92		BenPIN	Yes	** NA **	None
22	M50			Yes	** NA **	None
23	M51			Yes	** NA **	None
24	M51A			Yes	** NA **	None
25	M25			Yes	N/A	None
26	M26			Yes	Default	None
27	M27			Yes	Default	None
28	M28			Yes	Default	None
29	M29			Yes	** NA **	None
30	M30			Yes	** NA **	None
31	M31	OOOOOX	OOOOOX	Yes	Default	None
32	M32	OOOOOX	OOOOOX	Yes	Default	None
33	M33			Yes	** NA **	None
34	M34			Yes	** NA **	None
35	M35			Yes	** NA **	None
36	M36			Yes	** NA **	None
37	M37			Yes	** NA **	None
38	M38		BenPIN	Yes	** NA **	None
39	M39			Yes	N/A	None
40	M40		BenPIN	Yes	** NA **	None
41	M41			Yes	** NA **	None
42	M42			Yes	** NA **	None
43	M43A		BenPIN	Yes	** NA **	None
44	M44			Yes	N/A	None
45	M45		BenPIN	Yes	** NA **	None
46	M46A			Yes	** NA **	None
47	M47			Yes	** NA **	None
48	M48			Yes	** NA **	None
49	M49			Yes	N/A	None
50	M50A			Yes	Default	None
51	M51C			Yes	Default	None
52	M52A			Yes	Default	None
53	M53			Yes	** NA **	None
54	M54			Yes	** NA **	None
55	M55	OOOOOX	OOOOOX	Yes	Default	None
56	M56	OOOOOX	OOOOOX	Yes	Default	None
57	M57			Yes	** NA **	None
58	M58A			Yes	** NA **	None
59	M59A			Yes	** NA **	None
60	M60			Yes	** NA **	None
61	M61			Yes	** NA **	None
62	M62		BenPIN	Yes	** NA **	None
63	M63			Yes	N/A	None
64	M64		BenPIN	Yes	** NA **	None
65	M65			Yes	** NA **	None
66	M66			Yes	** NA **	None
67	M67		BenPIN	Yes	** NA **	None
68	M68			Yes	N/A	None
69	M69		BenPIN	Yes	** NA **	None
70	M70			Yes	** NA **	None
71	M71			Yes	** NA **	None
72	M72			Yes	** NA **	None
73	M73			Yes	N/A	None
74	M74			Yes	N/A	None
75	M75			Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
76	M76A	BenPIN		Yes	** NA **	None
77	M77A	BenPIN		Yes	** NA **	None
78	M78	BenPIN		Yes	** NA **	None
79	M79A			Yes	** NA **	None
80	MP1A			Yes	** NA **	None
81	M81			Yes	** NA **	None
82	MP2A			Yes	** NA **	None
83	M83A			Yes	** NA **	None
84	MP3A			Yes	** NA **	None
85	M85A			Yes	** NA **	None
86	MP4A			Yes	** NA **	None
87	M87			Yes	** NA **	None
88	MP1C			Yes	** NA **	None
89	M89			Yes	** NA **	None
90	MP2C			Yes	** NA **	None
91	M91A			Yes	** NA **	None
92	MP3C			Yes	** NA **	None
93	M93			Yes	** NA **	None
94	MP4C			Yes	** NA **	None
95	M95			Yes	** NA **	None
96	MP1B			Yes	** NA **	None
97	M97			Yes	** NA **	None
98	MP2B			Yes	** NA **	None
99	M99			Yes	** NA **	None
100	MP3B			Yes	** NA **	None
101	M101			Yes	** NA **	None
102	MP4B			Yes	** NA **	None
103	M103			Yes	** NA **	None
104	M104			Yes	** NA **	None
105	M105			Yes	N/A	None
106	M106			Yes	N/A	None
107	M107			Yes	N/A	None
108	M108	OOOOOX		Yes	** NA **	None
109	M114			Yes	N/A	None
110	M117			Yes	** NA **	None
111	M118			Yes	** NA **	None
112	M119			Yes	** NA **	None
113	M120			Yes	** NA **	None
114	M121			Yes	** NA **	None
115	M122			Yes	** NA **	None
116	M123			Yes	** NA **	None
117	M124			Yes	** NA **	None
118	M125			Yes	** NA **	None
119	M126			Yes	** NA **	None
120	M127			Yes	** NA **	None
121	M128			Yes	** NA **	None
122	M129	OOOOOX		Yes	** NA **	None
123	M132	OOOOOX		Yes	** NA **	None
124	M125A			Yes	N/A	None
125	M126A	OOOOOX		Yes	** NA **	None
126	M127A	OOOOOX		Yes	** NA **	None
127	M128A			Yes	N/A	None
128	M129A	OOOOOX		Yes	** NA **	None
129	M130			Yes	** NA **	None
130	OVP2			Yes	** NA **	None



Company : Colliers Engineering & Design
Designer : AJH
Job Number :
Model Name : 5000243787-VZW_MT_LO_H

3/27/2024
3:00:13 PM
Checked By : _____

Member Advanced Data (Continued)

Label	I Release	J Release	Physical	Deflection Ratio Options	Seismic DR
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Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	-8.8	4.5
2	MP2A	My	0.009	4.5
3	MP2A	Mz	0.003	4.5
4	MP2A	Y	-8.8	5.5
5	MP2A	My	0.009	5.5
6	MP2A	Mz	0.003	5.5
7	MP2A	Y	-8.8	4.5
8	MP2A	My	0.009	4.5
9	MP2A	Mz	-0.003	4.5
10	MP2A	Y	-8.8	5.5
11	MP2A	My	0.009	5.5
12	MP2A	Mz	-0.003	5.5
13	MP2B	Y	-8.8	4.5
14	MP2B	My	0.009	4.5
15	MP2B	Mz	0.003	4.5
16	MP2B	Y	-8.8	5.5
17	MP2B	My	0.009	5.5
18	MP2B	Mz	0.003	5.5
19	MP2B	Y	-8.8	4.5
20	MP2B	My	0.009	4.5
21	MP2B	Mz	-0.003	4.5
22	MP2B	Y	-8.8	5.5
23	MP2B	My	0.009	5.5
24	MP2B	Mz	-0.003	5.5
25	MP3B	Y	-33	1
26	MP3B	My	0.011	1
27	MP3B	Mz	-0.013	1
28	MP4A	Y	-33	1
29	MP4A	My	-0.013	1
30	MP4A	Mz	-0.011	1
31	MP4B	Y	-33	1
32	MP4B	My	0.013	1
33	MP4B	Mz	0.011	1
34	MP4C	Y	-33	1
35	MP4C	My	-0.011	1
36	MP4C	Mz	0.013	1
37	OVP2	Y	-32	1.5
38	OVP2	My	0	1.5
39	OVP2	Mz	0	1.5
40	MP1A	Y	-4.4	4.5
41	MP1A	My	-0.002	4.5
42	MP1A	Mz	0	4.5
43	MP1B	Y	-4.4	4.5
44	MP1B	My	0.001	4.5
45	MP1B	Mz	-0.002	4.5
46	MP1C	Y	-4.4	4.5
47	MP1C	My	0.001	4.5
48	MP1C	Mz	0.002	4.5
49	MP1A	Y	-43.55	1.5
50	MP1A	My	-0.022	1.5
51	MP1A	Mz	0	1.5
52	MP1A	Y	-43.55	3.5
53	MP1A	My	-0.022	3.5
54	MP1A	Mz	0	3.5
55	MP1B	Y	-43.55	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1B	My	0.014	1.5
57	MP1B	Mz	-0.017	1.5
58	MP1B	Y	-43.55	3.5
59	MP1B	My	0.014	3.5
60	MP1B	Mz	-0.017	3.5
61	MP1C	Y	-43.55	1.5
62	MP1C	My	0.011	1.5
63	MP1C	Mz	0.019	1.5
64	MP1C	Y	-43.55	3.5
65	MP1C	My	0.011	3.5
66	MP1C	Mz	0.019	3.5
67	MP2A	Y	-84.4	3.5
68	MP2A	My	0.042	3.5
69	MP2A	Mz	0	3.5
70	MP2B	Y	-84.4	3.5
71	MP2B	My	-0.027	3.5
72	MP2B	Mz	0.032	3.5
73	MP2C	Y	-84.4	3.5
74	MP2C	My	-0.021	3.5
75	MP2C	Mz	-0.037	3.5
76	MP3A	Y	-70.3	3.5
77	MP3A	My	0.035	3.5
78	MP3A	Mz	0	3.5
79	MP3B	Y	-70.3	3.5
80	MP3B	My	-0.023	3.5
81	MP3B	Mz	0.027	3.5
82	MP3C	Y	-70.3	3.5
83	MP3C	My	-0.018	3.5
84	MP3C	Mz	-0.03	3.5
85	M104	Y	-32	1.5
86	M104	My	0	1.5
87	M104	Mz	0	1.5
88	MP2A	Y	-20	0.5
89	MP2A	My	-0.01	0.5
90	MP2A	Mz	0.012	0.5
91	MP2A	Y	-20	5.5
92	MP2A	My	-0.01	5.5
93	MP2A	Mz	0.012	5.5
94	MP2B	Y	-20	0.5
95	MP2B	My	-0.003	0.5
96	MP2B	Mz	-0.015	0.5
97	MP2B	Y	-20	5.5
98	MP2B	My	-0.003	5.5
99	MP2B	Mz	-0.015	5.5
100	MP2C	Y	-20	0.5
101	MP2C	My	0.015	0.5
102	MP2C	Mz	0.003	0.5
103	MP2C	Y	-20	5.5
104	MP2C	My	0.015	5.5
105	MP2C	Mz	0.003	5.5
106	MP2A	Y	-20	0.5
107	MP2A	My	-0.01	0.5
108	MP2A	Mz	-0.012	0.5
109	MP2A	Y	-20	5.5
110	MP2A	My	-0.01	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP2A	Mz	-0.012	5.5
112	MP2B	Y	-20	0.5
113	MP2B	My	0.015	0.5
114	MP2B	Mz	-0.000161	0.5
115	MP2B	Y	-20	5.5
116	MP2B	My	0.015	5.5
117	MP2B	Mz	-0.000161	5.5
118	MP2C	Y	-20	0.5
119	MP2C	My	-0.005	0.5
120	MP2C	Mz	0.014	0.5
121	MP2C	Y	-20	5.5
122	MP2C	My	-0.005	5.5
123	MP2C	Mz	0.014	5.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	-14.604	4.5
2	MP2A	My	0.015	4.5
3	MP2A	Mz	0.005	4.5
4	MP2A	Y	-14.604	5.5
5	MP2A	My	0.015	5.5
6	MP2A	Mz	0.005	5.5
7	MP2A	Y	-14.604	4.5
8	MP2A	My	0.015	4.5
9	MP2A	Mz	-0.005	4.5
10	MP2A	Y	-14.604	5.5
11	MP2A	My	0.015	5.5
12	MP2A	Mz	-0.005	5.5
13	MP2B	Y	-14.604	4.5
14	MP2B	My	0.015	4.5
15	MP2B	Mz	0.005	4.5
16	MP2B	Y	-14.604	5.5
17	MP2B	My	0.015	5.5
18	MP2B	Mz	0.005	5.5
19	MP2B	Y	-14.604	4.5
20	MP2B	My	0.015	4.5
21	MP2B	Mz	-0.005	4.5
22	MP2B	Y	-14.604	5.5
23	MP2B	My	0.015	5.5
24	MP2B	Mz	-0.005	5.5
25	MP3B	Y	-98.467	1
26	MP3B	My	0.032	1
27	MP3B	Mz	-0.038	1
28	MP4A	Y	-98.467	1
29	MP4A	My	-0.038	1
30	MP4A	Mz	-0.032	1
31	MP4B	Y	-98.467	1
32	MP4B	My	0.038	1
33	MP4B	Mz	0.032	1
34	MP4C	Y	-98.467	1
35	MP4C	My	-0.032	1
36	MP4C	Mz	0.038	1
37	OVP2	Y	-139.408	1.5
38	OVP2	My	0	1.5
39	OVP2	Mz	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP1A	Y	-23.098	4.5
41	MP1A	My	-0.012	4.5
42	MP1A	Mz	0	4.5
43	MP1B	Y	-23.098	4.5
44	MP1B	My	0.007	4.5
45	MP1B	Mz	-0.009	4.5
46	MP1C	Y	-23.098	4.5
47	MP1C	My	0.006	4.5
48	MP1C	Mz	0.01	4.5
49	MP1A	Y	-56.996	1.5
50	MP1A	My	-0.028	1.5
51	MP1A	Mz	0	1.5
52	MP1A	Y	-56.996	3.5
53	MP1A	My	-0.028	3.5
54	MP1A	Mz	0	3.5
55	MP1B	Y	-56.996	1.5
56	MP1B	My	0.018	1.5
57	MP1B	Mz	-0.022	1.5
58	MP1B	Y	-56.996	3.5
59	MP1B	My	0.018	3.5
60	MP1B	Mz	-0.022	3.5
61	MP1C	Y	-56.996	1.5
62	MP1C	My	0.014	1.5
63	MP1C	Mz	0.025	1.5
64	MP1C	Y	-56.996	3.5
65	MP1C	My	0.014	3.5
66	MP1C	Mz	0.025	3.5
67	MP2A	Y	-72.453	3.5
68	MP2A	My	0.036	3.5
69	MP2A	Mz	0	3.5
70	MP2B	Y	-72.453	3.5
71	MP2B	My	-0.023	3.5
72	MP2B	Mz	0.028	3.5
73	MP2C	Y	-72.453	3.5
74	MP2C	My	-0.018	3.5
75	MP2C	Mz	-0.031	3.5
76	MP3A	Y	-65.422	3.5
77	MP3A	My	0.033	3.5
78	MP3A	Mz	0	3.5
79	MP3B	Y	-65.422	3.5
80	MP3B	My	-0.021	3.5
81	MP3B	Mz	0.025	3.5
82	MP3C	Y	-65.422	3.5
83	MP3C	My	-0.016	3.5
84	MP3C	Mz	-0.028	3.5
85	M104	Y	-120.94	1.5
86	M104	My	0	1.5
87	M104	Mz	0	1.5
88	MP2A	Y	-97.358	0.5
89	MP2A	My	-0.049	0.5
90	MP2A	Mz	0.057	0.5
91	MP2A	Y	-97.358	5.5
92	MP2A	My	-0.049	5.5
93	MP2A	Mz	0.057	5.5
94	MP2B	Y	-97.358	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP2B	My	-0.012	0.5
96	MP2B	Mz	-0.074	0.5
97	MP2B	Y	-97.358	5.5
98	MP2B	My	-0.012	5.5
99	MP2B	Mz	-0.074	5.5
100	MP2C	Y	-97.358	0.5
101	MP2C	My	0.074	0.5
102	MP2C	Mz	0.014	0.5
103	MP2C	Y	-97.358	5.5
104	MP2C	My	0.074	5.5
105	MP2C	Mz	0.014	5.5
106	MP2A	Y	-97.358	0.5
107	MP2A	My	-0.049	0.5
108	MP2A	Mz	-0.057	0.5
109	MP2A	Y	-97.358	5.5
110	MP2A	My	-0.049	5.5
111	MP2A	Mz	-0.057	5.5
112	MP2B	Y	-97.358	0.5
113	MP2B	My	0.075	0.5
114	MP2B	Mz	-0.000785	0.5
115	MP2B	Y	-97.358	5.5
116	MP2B	My	0.075	5.5
117	MP2B	Mz	-0.000785	5.5
118	MP2C	Y	-97.358	0.5
119	MP2C	My	-0.025	0.5
120	MP2C	Mz	0.071	0.5
121	MP2C	Y	-97.358	5.5
122	MP2C	My	-0.025	5.5
123	MP2C	Mz	0.071	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	4.5
2	MP2A	Z	-20.65	4.5
3	MP2A	Mx	-0.007	4.5
4	MP2A	X	0	5.5
5	MP2A	Z	-20.65	5.5
6	MP2A	Mx	-0.007	5.5
7	MP2A	X	0	4.5
8	MP2A	Z	-20.65	4.5
9	MP2A	Mx	0.007	4.5
10	MP2A	X	0	5.5
11	MP2A	Z	-20.65	5.5
12	MP2A	Mx	0.007	5.5
13	MP2B	X	0	4.5
14	MP2B	Z	-20.65	4.5
15	MP2B	Mx	-0.007	4.5
16	MP2B	X	0	5.5
17	MP2B	Z	-20.65	5.5
18	MP2B	Mx	-0.007	5.5
19	MP2B	X	0	4.5
20	MP2B	Z	-20.65	4.5
21	MP2B	Mx	0.007	4.5
22	MP2B	X	0	5.5
23	MP2B	Z	-20.65	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP2B	Mx	0.007	5.5
25	MP3B	X	0	1
26	MP3B	Z	-101.007	1
27	MP3B	Mx	0.039	1
28	MP4A	X	0	1
29	MP4A	Z	-116.946	1
30	MP4A	Mx	0.038	1
31	MP4B	X	0	1
32	MP4B	Z	-116.946	1
33	MP4B	Mx	-0.038	1
34	MP4C	X	0	1
35	MP4C	Z	-101.007	1
36	MP4C	Mx	-0.039	1
37	OVP2	X	0	1.5
38	OVP2	Z	-117.188	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0	4.5
41	MP1A	Z	-38.342	4.5
42	MP1A	Mx	0	4.5
43	MP1B	X	0	4.5
44	MP1B	Z	-20.254	4.5
45	MP1B	Mx	0.008	4.5
46	MP1C	X	0	4.5
47	MP1C	Z	-15.225	4.5
48	MP1C	Mx	-0.007	4.5
49	MP1A	X	0	1.5
50	MP1A	Z	-84.32	1.5
51	MP1A	Mx	0	1.5
52	MP1A	X	0	3.5
53	MP1A	Z	-84.32	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	1.5
56	MP1B	Z	-51.879	1.5
57	MP1B	Mx	0.02	1.5
58	MP1B	X	0	3.5
59	MP1B	Z	-51.879	3.5
60	MP1B	Mx	0.02	3.5
61	MP1C	X	0	1.5
62	MP1C	Z	-42.859	1.5
63	MP1C	Mx	-0.019	1.5
64	MP1C	X	0	3.5
65	MP1C	Z	-42.859	3.5
66	MP1C	Mx	-0.019	3.5
67	MP2A	X	0	3.5
68	MP2A	Z	-66.681	3.5
69	MP2A	Mx	0	3.5
70	MP2B	X	0	3.5
71	MP2B	Z	-53.806	3.5
72	MP2B	Mx	-0.021	3.5
73	MP2C	X	0	3.5
74	MP2C	Z	-50.226	3.5
75	MP2C	Mx	0.022	3.5
76	MP3A	X	0	3.5
77	MP3A	Z	-66.681	3.5
78	MP3A	Mx	0	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP3B	X	0	3.5
80	MP3B	Z	-49.01	3.5
81	MP3B	Mx	-0.019	3.5
82	MP3C	X	0	3.5
83	MP3C	Z	-44.096	3.5
84	MP3C	Mx	0.019	3.5
85	M104	X	0	1.5
86	M104	Z	-130.699	1.5
87	M104	Mx	0	1.5
88	MP2A	X	0	0.5
89	MP2A	Z	-118.688	0.5
90	MP2A	Mx	-0.069	0.5
91	MP2A	X	0	5.5
92	MP2A	Z	-118.688	5.5
93	MP2A	Mx	-0.069	5.5
94	MP2B	X	0	0.5
95	MP2B	Z	-78.997	0.5
96	MP2B	Mx	0.06	0.5
97	MP2B	X	0	5.5
98	MP2B	Z	-78.997	5.5
99	MP2B	Mx	0.06	5.5
100	MP2C	X	0	0.5
101	MP2C	Z	-67.96	0.5
102	MP2C	Mx	-0.01	0.5
103	MP2C	X	0	5.5
104	MP2C	Z	-67.96	5.5
105	MP2C	Mx	-0.01	5.5
106	MP2A	X	0	0.5
107	MP2A	Z	-118.688	0.5
108	MP2A	Mx	0.069	0.5
109	MP2A	X	0	5.5
110	MP2A	Z	-118.688	5.5
111	MP2A	Mx	0.069	5.5
112	MP2B	X	0	0.5
113	MP2B	Z	-78.997	0.5
114	MP2B	Mx	0.000637	0.5
115	MP2B	X	0	5.5
116	MP2B	Z	-78.997	5.5
117	MP2B	Mx	0.000637	5.5
118	MP2C	X	0	0.5
119	MP2C	Z	-67.96	0.5
120	MP2C	Mx	-0.049	0.5
121	MP2C	X	0	5.5
122	MP2C	Z	-67.96	5.5
123	MP2C	Mx	-0.049	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	10.332	4.5
2	MP2A	Z	-17.896	4.5
3	MP2A	Mx	0.004	4.5
4	MP2A	X	10.332	5.5
5	MP2A	Z	-17.896	5.5
6	MP2A	Mx	0.004	5.5
7	MP2A	X	10.332	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
8	MP2A	Z	-17.896	4.5
9	MP2A	Mx	0.016	4.5
10	MP2A	X	10.332	5.5
11	MP2A	Z	-17.896	5.5
12	MP2A	Mx	0.016	5.5
13	MP2B	X	10.332	4.5
14	MP2B	Z	-17.896	4.5
15	MP2B	Mx	0.004	4.5
16	MP2B	X	10.332	5.5
17	MP2B	Z	-17.896	5.5
18	MP2B	Mx	0.004	5.5
19	MP2B	X	10.332	4.5
20	MP2B	Z	-17.896	4.5
21	MP2B	Mx	0.016	4.5
22	MP2B	X	10.332	5.5
23	MP2B	Z	-17.896	5.5
24	MP2B	Mx	0.016	5.5
25	MP3B	X	32.924	1
26	MP3B	Z	-57.026	1
27	MP3B	Mx	0.032	1
28	MP4A	X	76.053	1
29	MP4A	Z	-131.727	1
30	MP4A	Mx	0.013	1
31	MP4B	X	76.053	1
32	MP4B	Z	-131.727	1
33	MP4B	Mx	-0.013	1
34	MP4C	X	32.924	1
35	MP4C	Z	-57.026	1
36	MP4C	Mx	-0.032	1
37	OVP2	X	52.332	1.5
38	OVP2	Z	-90.642	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	15.318	4.5
41	MP1A	Z	-26.532	4.5
42	MP1A	Mx	-0.008	4.5
43	MP1B	X	4.224	4.5
44	MP1B	Z	-7.317	4.5
45	MP1B	Mx	0.004	4.5
46	MP1C	X	15.318	4.5
47	MP1C	Z	-26.532	4.5
48	MP1C	Mx	-0.008	4.5
49	MP1A	X	35.25	1.5
50	MP1A	Z	-61.054	1.5
51	MP1A	Mx	-0.018	1.5
52	MP1A	X	35.25	3.5
53	MP1A	Z	-61.054	3.5
54	MP1A	Mx	-0.018	3.5
55	MP1B	X	15.353	1.5
56	MP1B	Z	-26.592	1.5
57	MP1B	Mx	0.015	1.5
58	MP1B	X	15.353	3.5
59	MP1B	Z	-26.592	3.5
60	MP1B	Mx	0.015	3.5
61	MP1C	X	35.25	1.5
62	MP1C	Z	-61.054	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
63	MP1C	Mx	-0.018	1.5
64	MP1C	X	35.25	3.5
65	MP1C	Z	-61.054	3.5
66	MP1C	Mx	-0.018	3.5
67	MP2A	X	30.598	3.5
68	MP2A	Z	-52.998	3.5
69	MP2A	Mx	0.015	3.5
70	MP2B	X	22.701	3.5
71	MP2B	Z	-39.32	3.5
72	MP2B	Mx	-0.022	3.5
73	MP2C	X	30.598	3.5
74	MP2C	Z	-52.998	3.5
75	MP2C	Mx	0.015	3.5
76	MP3A	X	29.576	3.5
77	MP3A	Z	-51.228	3.5
78	MP3A	Mx	0.015	3.5
79	MP3B	X	18.738	3.5
80	MP3B	Z	-32.455	3.5
81	MP3B	Mx	-0.018	3.5
82	MP3C	X	29.576	3.5
83	MP3C	Z	-51.228	3.5
84	MP3C	Mx	0.015	3.5
85	M104	X	54.793	1.5
86	M104	Z	-94.904	1.5
87	M104	Mx	0	1.5
88	MP2A	X	50.889	0.5
89	MP2A	Z	-88.143	0.5
90	MP2A	Mx	-0.077	0.5
91	MP2A	X	50.889	5.5
92	MP2A	Z	-88.143	5.5
93	MP2A	Mx	-0.077	5.5
94	MP2B	X	26.545	0.5
95	MP2B	Z	-45.978	0.5
96	MP2B	Mx	0.032	0.5
97	MP2B	X	26.545	5.5
98	MP2B	Z	-45.978	5.5
99	MP2B	Mx	0.032	5.5
100	MP2C	X	50.889	0.5
101	MP2C	Z	-88.143	0.5
102	MP2C	Mx	0.026	0.5
103	MP2C	X	50.889	5.5
104	MP2C	Z	-88.143	5.5
105	MP2C	Mx	0.026	5.5
106	MP2A	X	50.889	0.5
107	MP2A	Z	-88.143	0.5
108	MP2A	Mx	0.026	0.5
109	MP2A	X	50.889	5.5
110	MP2A	Z	-88.143	5.5
111	MP2A	Mx	0.026	5.5
112	MP2B	X	26.545	0.5
113	MP2B	Z	-45.978	0.5
114	MP2B	Mx	0.021	0.5
115	MP2B	X	26.545	5.5
116	MP2B	Z	-45.978	5.5
117	MP2B	Mx	0.021	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
118	MP2C	X	50.889	0.5
119	MP2C	Z	-88.143	0.5
120	MP2C	Mx	-0.077	0.5
121	MP2C	X	50.889	5.5
122	MP2C	Z	-88.143	5.5
123	MP2C	Mx	-0.077	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	17.923	4.5
2	MP2A	Z	-10.348	4.5
3	MP2A	Mx	0.014	4.5
4	MP2A	X	17.923	5.5
5	MP2A	Z	-10.348	5.5
6	MP2A	Mx	0.014	5.5
7	MP2A	X	17.923	4.5
8	MP2A	Z	-10.348	4.5
9	MP2A	Mx	0.021	4.5
10	MP2A	X	17.923	5.5
11	MP2A	Z	-10.348	5.5
12	MP2A	Mx	0.021	5.5
13	MP2B	X	17.923	4.5
14	MP2B	Z	-10.348	4.5
15	MP2B	Mx	0.014	4.5
16	MP2B	X	17.923	5.5
17	MP2B	Z	-10.348	5.5
18	MP2B	Mx	0.014	5.5
19	MP2B	X	17.923	4.5
20	MP2B	Z	-10.348	4.5
21	MP2B	Mx	0.021	4.5
22	MP2B	X	17.923	5.5
23	MP2B	Z	-10.348	5.5
24	MP2B	Mx	0.021	5.5
25	MP3B	X	63.928	1
26	MP3B	Z	-36.909	1
27	MP3B	Mx	0.035	1
28	MP4A	X	124.825	1
29	MP4A	Z	-72.068	1
30	MP4A	Mx	-0.025	1
31	MP4B	X	124.825	1
32	MP4B	Z	-72.068	1
33	MP4B	Mx	0.025	1
34	MP4C	X	63.928	1
35	MP4C	Z	-36.909	1
36	MP4C	Mx	-0.035	1
37	OVP2	X	93.101	1.5
38	OVP2	Z	-53.752	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	13.185	4.5
41	MP1A	Z	-7.612	4.5
42	MP1A	Mx	-0.007	4.5
43	MP1B	X	9.634	4.5
44	MP1B	Z	-5.562	4.5
45	MP1B	Mx	0.005	4.5
46	MP1C	X	33.205	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
47	MP1C	Z	-19.171	4.5
48	MP1C	Mx	0	4.5
49	MP1A	X	37.117	1.5
50	MP1A	Z	-21.429	1.5
51	MP1A	Mx	-0.019	1.5
52	MP1A	X	37.117	3.5
53	MP1A	Z	-21.429	3.5
54	MP1A	Mx	-0.019	3.5
55	MP1B	X	30.749	1.5
56	MP1B	Z	-17.753	1.5
57	MP1B	Mx	0.017	1.5
58	MP1B	X	30.749	3.5
59	MP1B	Z	-17.753	3.5
60	MP1B	Mx	0.017	3.5
61	MP1C	X	73.023	1.5
62	MP1C	Z	-42.16	1.5
63	MP1C	Mx	0	1.5
64	MP1C	X	73.023	3.5
65	MP1C	Z	-42.16	3.5
66	MP1C	Mx	0	3.5
67	MP2A	X	43.497	3.5
68	MP2A	Z	-25.113	3.5
69	MP2A	Mx	0.022	3.5
70	MP2B	X	40.97	3.5
71	MP2B	Z	-23.654	3.5
72	MP2B	Mx	-0.022	3.5
73	MP2C	X	57.748	3.5
74	MP2C	Z	-33.341	3.5
75	MP2C	Mx	0	3.5
76	MP3A	X	38.188	3.5
77	MP3A	Z	-22.048	3.5
78	MP3A	Mx	0.019	3.5
79	MP3B	X	34.719	3.5
80	MP3B	Z	-20.045	3.5
81	MP3B	Mx	-0.019	3.5
82	MP3C	X	57.748	3.5
83	MP3C	Z	-33.341	3.5
84	MP3C	Mx	0	3.5
85	M104	X	99.049	1.5
86	M104	Z	-57.186	1.5
87	M104	Mx	0	1.5
88	MP2A	X	58.855	0.5
89	MP2A	Z	-33.98	0.5
90	MP2A	Mx	-0.049	0.5
91	MP2A	X	58.855	5.5
92	MP2A	Z	-33.98	5.5
93	MP2A	Mx	-0.049	5.5
94	MP2B	X	51.063	0.5
95	MP2B	Z	-29.481	0.5
96	MP2B	Mx	0.016	0.5
97	MP2B	X	51.063	5.5
98	MP2B	Z	-29.481	5.5
99	MP2B	Mx	0.016	5.5
100	MP2C	X	102.787	0.5
101	MP2C	Z	-59.344	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
102	MP2C	Mx	0.069	0.5
103	MP2C	X	102.787	5.5
104	MP2C	Z	-59.344	5.5
105	MP2C	Mx	0.069	5.5
106	MP2A	X	58.855	0.5
107	MP2A	Z	-33.98	0.5
108	MP2A	Mx	-0.01	0.5
109	MP2A	X	58.855	5.5
110	MP2A	Z	-33.98	5.5
111	MP2A	Mx	-0.01	5.5
112	MP2B	X	51.063	0.5
113	MP2B	Z	-29.481	0.5
114	MP2B	Mx	0.039	0.5
115	MP2B	X	51.063	5.5
116	MP2B	Z	-29.481	5.5
117	MP2B	Mx	0.039	5.5
118	MP2C	X	102.787	0.5
119	MP2C	Z	-59.344	0.5
120	MP2C	Mx	-0.069	0.5
121	MP2C	X	102.787	5.5
122	MP2C	Z	-59.344	5.5
123	MP2C	Mx	-0.069	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	20.711	4.5
2	MP2A	Z	0	4.5
3	MP2A	Mx	0.021	4.5
4	MP2A	X	20.711	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	0.021	5.5
7	MP2A	X	20.711	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	0.021	4.5
10	MP2A	X	20.711	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	0.021	5.5
13	MP2B	X	20.711	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	0.021	4.5
16	MP2B	X	20.711	5.5
17	MP2B	Z	0	5.5
18	MP2B	Mx	0.021	5.5
19	MP2B	X	20.711	4.5
20	MP2B	Z	0	4.5
21	MP2B	Mx	0.021	4.5
22	MP2B	X	20.711	5.5
23	MP2B	Z	0	5.5
24	MP2B	Mx	0.021	5.5
25	MP3B	X	116.946	1
26	MP3B	Z	0	1
27	MP3B	Mx	0.038	1
28	MP4A	X	101.007	1
29	MP4A	Z	0	1
30	MP4A	Mx	-0.039	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP4B	X	101.007	1
32	MP4B	Z	0	1
33	MP4B	Mx	0.039	1
34	MP4C	X	116.946	1
35	MP4C	Z	0	1
36	MP4C	Mx	-0.038	1
37	OVP2	X	122.865	1.5
38	OVP2	Z	0	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	7.519	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	-0.004	4.5
43	MP1B	X	25.607	4.5
44	MP1B	Z	0	4.5
45	MP1B	Mx	0.008	4.5
46	MP1C	X	30.636	4.5
47	MP1C	Z	0	4.5
48	MP1C	Mx	0.008	4.5
49	MP1A	X	29.039	1.5
50	MP1A	Z	0	1.5
51	MP1A	Mx	-0.015	1.5
52	MP1A	X	29.039	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	-0.015	3.5
55	MP1B	X	61.479	1.5
56	MP1B	Z	0	1.5
57	MP1B	Mx	0.02	1.5
58	MP1B	X	61.479	3.5
59	MP1B	Z	0	3.5
60	MP1B	Mx	0.02	3.5
61	MP1C	X	70.499	1.5
62	MP1C	Z	0	1.5
63	MP1C	Mx	0.018	1.5
64	MP1C	X	70.499	3.5
65	MP1C	Z	0	3.5
66	MP1C	Mx	0.018	3.5
67	MP2A	X	44.741	3.5
68	MP2A	Z	0	3.5
69	MP2A	Mx	0.022	3.5
70	MP2B	X	57.616	3.5
71	MP2B	Z	0	3.5
72	MP2B	Mx	-0.019	3.5
73	MP2C	X	61.196	3.5
74	MP2C	Z	0	3.5
75	MP2C	Mx	-0.015	3.5
76	MP3A	X	36.567	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	0.018	3.5
79	MP3B	X	54.239	3.5
80	MP3B	Z	0	3.5
81	MP3B	Mx	-0.017	3.5
82	MP3C	X	59.153	3.5
83	MP3C	Z	0	3.5
84	MP3C	Mx	-0.015	3.5
85	M104	X	140.271	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	M104	Z	0	1.5
87	M104	Mx	0	1.5
88	MP2A	X	51.051	0.5
89	MP2A	Z	0	0.5
90	MP2A	Mx	-0.026	0.5
91	MP2A	X	51.051	5.5
92	MP2A	Z	0	5.5
93	MP2A	Mx	-0.026	5.5
94	MP2B	X	90.742	0.5
95	MP2B	Z	0	0.5
96	MP2B	Mx	-0.011	0.5
97	MP2B	X	90.742	5.5
98	MP2B	Z	0	5.5
99	MP2B	Mx	-0.011	5.5
100	MP2C	X	101.779	0.5
101	MP2C	Z	0	0.5
102	MP2C	Mx	0.077	0.5
103	MP2C	X	101.779	5.5
104	MP2C	Z	0	5.5
105	MP2C	Mx	0.077	5.5
106	MP2A	X	51.051	0.5
107	MP2A	Z	0	0.5
108	MP2A	Mx	-0.026	0.5
109	MP2A	X	51.051	5.5
110	MP2A	Z	0	5.5
111	MP2A	Mx	-0.026	5.5
112	MP2B	X	90.742	0.5
113	MP2B	Z	0	0.5
114	MP2B	Mx	0.07	0.5
115	MP2B	X	90.742	5.5
116	MP2B	Z	0	5.5
117	MP2B	Mx	0.07	5.5
118	MP2C	X	101.779	0.5
119	MP2C	Z	0	0.5
120	MP2C	Mx	-0.026	0.5
121	MP2C	X	101.779	5.5
122	MP2C	Z	0	5.5
123	MP2C	Mx	-0.026	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	17.923	4.5
2	MP2A	Z	10.348	4.5
3	MP2A	Mx	0.021	4.5
4	MP2A	X	17.923	5.5
5	MP2A	Z	10.348	5.5
6	MP2A	Mx	0.021	5.5
7	MP2A	X	17.923	4.5
8	MP2A	Z	10.348	4.5
9	MP2A	Mx	0.014	4.5
10	MP2A	X	17.923	5.5
11	MP2A	Z	10.348	5.5
12	MP2A	Mx	0.014	5.5
13	MP2B	X	17.923	4.5
14	MP2B	Z	10.348	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
15	MP2B	Mx	0.021	4.5
16	MP2B	X	17.923	5.5
17	MP2B	Z	10.348	5.5
18	MP2B	Mx	0.021	5.5
19	MP2B	X	17.923	4.5
20	MP2B	Z	10.348	4.5
21	MP2B	Mx	0.014	4.5
22	MP2B	X	17.923	5.5
23	MP2B	Z	10.348	5.5
24	MP2B	Mx	0.014	5.5
25	MP3B	X	131.727	1
26	MP3B	Z	76.053	1
27	MP3B	Mx	0.013	1
28	MP4A	X	57.026	1
29	MP4A	Z	32.924	1
30	MP4A	Mx	-0.032	1
31	MP4B	X	57.026	1
32	MP4B	Z	32.924	1
33	MP4B	Mx	0.032	1
34	MP4C	X	131.727	1
35	MP4C	Z	76.053	1
36	MP4C	Mx	-0.013	1
37	OVP2	X	117.25	1.5
38	OVP2	Z	67.694	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	13.185	4.5
41	MP1A	Z	7.612	4.5
42	MP1A	Mx	-0.007	4.5
43	MP1B	X	32.4	4.5
44	MP1B	Z	18.706	4.5
45	MP1B	Mx	0.003	4.5
46	MP1C	X	13.185	4.5
47	MP1C	Z	7.612	4.5
48	MP1C	Mx	0.007	4.5
49	MP1A	X	37.117	1.5
50	MP1A	Z	21.429	1.5
51	MP1A	Mx	-0.019	1.5
52	MP1A	X	37.117	3.5
53	MP1A	Z	21.429	3.5
54	MP1A	Mx	-0.019	3.5
55	MP1B	X	71.579	1.5
56	MP1B	Z	41.326	1.5
57	MP1B	Mx	0.007	1.5
58	MP1B	X	71.579	3.5
59	MP1B	Z	41.326	3.5
60	MP1B	Mx	0.007	3.5
61	MP1C	X	37.117	1.5
62	MP1C	Z	21.429	1.5
63	MP1C	Mx	0.019	1.5
64	MP1C	X	37.117	3.5
65	MP1C	Z	21.429	3.5
66	MP1C	Mx	0.019	3.5
67	MP2A	X	43.497	3.5
68	MP2A	Z	25.113	3.5
69	MP2A	Mx	0.022	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
70	MP2B	X	57.175	3.5
71	MP2B	Z	33.01	3.5
72	MP2B	Mx	-0.006	3.5
73	MP2C	X	43.497	3.5
74	MP2C	Z	25.113	3.5
75	MP2C	Mx	-0.022	3.5
76	MP3A	X	38.188	3.5
77	MP3A	Z	22.048	3.5
78	MP3A	Mx	0.019	3.5
79	MP3B	X	56.961	3.5
80	MP3B	Z	32.887	3.5
81	MP3B	Mx	-0.006	3.5
82	MP3C	X	38.188	3.5
83	MP3C	Z	22.048	3.5
84	MP3C	Mx	-0.019	3.5
85	M104	X	139.763	1.5
86	M104	Z	80.692	1.5
87	M104	Mx	0	1.5
88	MP2A	X	58.855	0.5
89	MP2A	Z	33.98	0.5
90	MP2A	Mx	-0.01	0.5
91	MP2A	X	58.855	5.5
92	MP2A	Z	33.98	5.5
93	MP2A	Mx	-0.01	5.5
94	MP2B	X	101.02	0.5
95	MP2B	Z	58.324	0.5
96	MP2B	Mx	-0.057	0.5
97	MP2B	X	101.02	5.5
98	MP2B	Z	58.324	5.5
99	MP2B	Mx	-0.057	5.5
100	MP2C	X	58.855	0.5
101	MP2C	Z	33.98	0.5
102	MP2C	Mx	0.049	0.5
103	MP2C	X	58.855	5.5
104	MP2C	Z	33.98	5.5
105	MP2C	Mx	0.049	5.5
106	MP2A	X	58.855	0.5
107	MP2A	Z	33.98	0.5
108	MP2A	Mx	-0.049	0.5
109	MP2A	X	58.855	5.5
110	MP2A	Z	33.98	5.5
111	MP2A	Mx	-0.049	5.5
112	MP2B	X	101.02	0.5
113	MP2B	Z	58.324	0.5
114	MP2B	Mx	0.077	0.5
115	MP2B	X	101.02	5.5
116	MP2B	Z	58.324	5.5
117	MP2B	Mx	0.077	5.5
118	MP2C	X	58.855	0.5
119	MP2C	Z	33.98	0.5
120	MP2C	Mx	0.01	0.5
121	MP2C	X	58.855	5.5
122	MP2C	Z	33.98	5.5
123	MP2C	Mx	0.01	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	10.332	4.5
2	MP2A	Z	17.896	4.5
3	MP2A	Mx	0.016	4.5
4	MP2A	X	10.332	5.5
5	MP2A	Z	17.896	5.5
6	MP2A	Mx	0.016	5.5
7	MP2A	X	10.332	4.5
8	MP2A	Z	17.896	4.5
9	MP2A	Mx	0.004	4.5
10	MP2A	X	10.332	5.5
11	MP2A	Z	17.896	5.5
12	MP2A	Mx	0.004	5.5
13	MP2B	X	10.332	4.5
14	MP2B	Z	17.896	4.5
15	MP2B	Mx	0.016	4.5
16	MP2B	X	10.332	5.5
17	MP2B	Z	17.896	5.5
18	MP2B	Mx	0.016	5.5
19	MP2B	X	10.332	4.5
20	MP2B	Z	17.896	4.5
21	MP2B	Mx	0.004	4.5
22	MP2B	X	10.332	5.5
23	MP2B	Z	17.896	5.5
24	MP2B	Mx	0.004	5.5
25	MP3B	X	72.068	1
26	MP3B	Z	124.825	1
27	MP3B	Mx	-0.025	1
28	MP4A	X	36.909	1
29	MP4A	Z	63.928	1
30	MP4A	Mx	-0.035	1
31	MP4B	X	36.909	1
32	MP4B	Z	63.928	1
33	MP4B	Mx	0.035	1
34	MP4C	X	72.068	1
35	MP4C	Z	124.825	1
36	MP4C	Mx	0.025	1
37	OVP2	X	66.275	1.5
38	OVP2	Z	114.791	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	15.318	4.5
41	MP1A	Z	26.532	4.5
42	MP1A	Mx	-0.008	4.5
43	MP1B	X	17.368	4.5
44	MP1B	Z	30.083	4.5
45	MP1B	Mx	-0.006	4.5
46	MP1C	X	3.76	4.5
47	MP1C	Z	6.512	4.5
48	MP1C	Mx	0.004	4.5
49	MP1A	X	35.25	1.5
50	MP1A	Z	61.054	1.5
51	MP1A	Mx	-0.018	1.5
52	MP1A	X	35.25	3.5
53	MP1A	Z	61.054	3.5
54	MP1A	Mx	-0.018	3.5
55	MP1B	X	38.927	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1B	Z	67.423	1.5
57	MP1B	Mx	-0.013	1.5
58	MP1B	X	38.927	3.5
59	MP1B	Z	67.423	3.5
60	MP1B	Mx	-0.013	3.5
61	MP1C	X	14.519	1.5
62	MP1C	Z	25.148	1.5
63	MP1C	Mx	0.015	1.5
64	MP1C	X	14.519	3.5
65	MP1C	Z	25.148	3.5
66	MP1C	Mx	0.015	3.5
67	MP2A	X	30.598	3.5
68	MP2A	Z	52.998	3.5
69	MP2A	Mx	0.015	3.5
70	MP2B	X	32.057	3.5
71	MP2B	Z	55.525	3.5
72	MP2B	Mx	0.011	3.5
73	MP2C	X	22.371	3.5
74	MP2C	Z	38.747	3.5
75	MP2C	Mx	-0.022	3.5
76	MP3A	X	29.576	3.5
77	MP3A	Z	51.228	3.5
78	MP3A	Mx	0.015	3.5
79	MP3B	X	31.579	3.5
80	MP3B	Z	54.697	3.5
81	MP3B	Mx	0.011	3.5
82	MP3C	X	18.284	3.5
83	MP3C	Z	31.668	3.5
84	MP3C	Mx	-0.018	3.5
85	M104	X	78.299	1.5
86	M104	Z	135.618	1.5
87	M104	Mx	0	1.5
88	MP2A	X	50.889	0.5
89	MP2A	Z	88.143	0.5
90	MP2A	Mx	0.026	0.5
91	MP2A	X	50.889	5.5
92	MP2A	Z	88.143	5.5
93	MP2A	Mx	0.026	5.5
94	MP2B	X	55.388	0.5
95	MP2B	Z	95.935	0.5
96	MP2B	Mx	-0.08	0.5
97	MP2B	X	55.388	5.5
98	MP2B	Z	95.935	5.5
99	MP2B	Mx	-0.08	5.5
100	MP2C	X	25.525	0.5
101	MP2C	Z	44.211	0.5
102	MP2C	Mx	0.026	0.5
103	MP2C	X	25.525	5.5
104	MP2C	Z	44.211	5.5
105	MP2C	Mx	0.026	5.5
106	MP2A	X	50.889	0.5
107	MP2A	Z	88.143	0.5
108	MP2A	Mx	-0.077	0.5
109	MP2A	X	50.889	5.5
110	MP2A	Z	88.143	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP2A	Mx	-0.077	5.5
112	MP2B	X	55.388	0.5
113	MP2B	Z	95.935	0.5
114	MP2B	Mx	0.042	0.5
115	MP2B	X	55.388	5.5
116	MP2B	Z	95.935	5.5
117	MP2B	Mx	0.042	5.5
118	MP2C	X	25.525	0.5
119	MP2C	Z	44.211	0.5
120	MP2C	Mx	0.026	0.5
121	MP2C	X	25.525	5.5
122	MP2C	Z	44.211	5.5
123	MP2C	Mx	0.026	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	4.5
2	MP2A	Z	20.65	4.5
3	MP2A	Mx	0.007	4.5
4	MP2A	X	0	5.5
5	MP2A	Z	20.65	5.5
6	MP2A	Mx	0.007	5.5
7	MP2A	X	0	4.5
8	MP2A	Z	20.65	4.5
9	MP2A	Mx	-0.007	4.5
10	MP2A	X	0	5.5
11	MP2A	Z	20.65	5.5
12	MP2A	Mx	-0.007	5.5
13	MP2B	X	0	4.5
14	MP2B	Z	20.65	4.5
15	MP2B	Mx	0.007	4.5
16	MP2B	X	0	5.5
17	MP2B	Z	20.65	5.5
18	MP2B	Mx	0.007	5.5
19	MP2B	X	0	4.5
20	MP2B	Z	20.65	4.5
21	MP2B	Mx	-0.007	4.5
22	MP2B	X	0	5.5
23	MP2B	Z	20.65	5.5
24	MP2B	Mx	-0.007	5.5
25	MP3B	X	0	1
26	MP3B	Z	101.007	1
27	MP3B	Mx	-0.039	1
28	MP4A	X	0	1
29	MP4A	Z	116.946	1
30	MP4A	Mx	-0.038	1
31	MP4B	X	0	1
32	MP4B	Z	116.946	1
33	MP4B	Mx	0.038	1
34	MP4C	X	0	1
35	MP4C	Z	101.007	1
36	MP4C	Mx	0.039	1
37	OVP2	X	0	1.5
38	OVP2	Z	117.188	1.5
39	OVP2	Mx	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP1A	X	0	4.5
41	MP1A	Z	38.342	4.5
42	MP1A	Mx	0	4.5
43	MP1B	X	0	4.5
44	MP1B	Z	20.254	4.5
45	MP1B	Mx	-0.008	4.5
46	MP1C	X	0	4.5
47	MP1C	Z	15.225	4.5
48	MP1C	Mx	0.007	4.5
49	MP1A	X	0	1.5
50	MP1A	Z	84.32	1.5
51	MP1A	Mx	0	1.5
52	MP1A	X	0	3.5
53	MP1A	Z	84.32	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	1.5
56	MP1B	Z	51.879	1.5
57	MP1B	Mx	-0.02	1.5
58	MP1B	X	0	3.5
59	MP1B	Z	51.879	3.5
60	MP1B	Mx	-0.02	3.5
61	MP1C	X	0	1.5
62	MP1C	Z	42.859	1.5
63	MP1C	Mx	0.019	1.5
64	MP1C	X	0	3.5
65	MP1C	Z	42.859	3.5
66	MP1C	Mx	0.019	3.5
67	MP2A	X	0	3.5
68	MP2A	Z	66.681	3.5
69	MP2A	Mx	0	3.5
70	MP2B	X	0	3.5
71	MP2B	Z	53.806	3.5
72	MP2B	Mx	0.021	3.5
73	MP2C	X	0	3.5
74	MP2C	Z	50.226	3.5
75	MP2C	Mx	-0.022	3.5
76	MP3A	X	0	3.5
77	MP3A	Z	66.681	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	3.5
80	MP3B	Z	49.01	3.5
81	MP3B	Mx	0.019	3.5
82	MP3C	X	0	3.5
83	MP3C	Z	44.096	3.5
84	MP3C	Mx	-0.019	3.5
85	M104	X	0	1.5
86	M104	Z	130.699	1.5
87	M104	Mx	0	1.5
88	MP2A	X	0	0.5
89	MP2A	Z	118.688	0.5
90	MP2A	Mx	0.069	0.5
91	MP2A	X	0	5.5
92	MP2A	Z	118.688	5.5
93	MP2A	Mx	0.069	5.5
94	MP2B	X	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP2B	Z	78.997	0.5
96	MP2B	Mx	-0.06	0.5
97	MP2B	X	0	5.5
98	MP2B	Z	78.997	5.5
99	MP2B	Mx	-0.06	5.5
100	MP2C	X	0	0.5
101	MP2C	Z	67.96	0.5
102	MP2C	Mx	0.01	0.5
103	MP2C	X	0	5.5
104	MP2C	Z	67.96	5.5
105	MP2C	Mx	0.01	5.5
106	MP2A	X	0	0.5
107	MP2A	Z	118.688	0.5
108	MP2A	Mx	-0.069	0.5
109	MP2A	X	0	5.5
110	MP2A	Z	118.688	5.5
111	MP2A	Mx	-0.069	5.5
112	MP2B	X	0	0.5
113	MP2B	Z	78.997	0.5
114	MP2B	Mx	-0.000637	0.5
115	MP2B	X	0	5.5
116	MP2B	Z	78.997	5.5
117	MP2B	Mx	-0.000637	5.5
118	MP2C	X	0	0.5
119	MP2C	Z	67.96	0.5
120	MP2C	Mx	0.049	0.5
121	MP2C	X	0	5.5
122	MP2C	Z	67.96	5.5
123	MP2C	Mx	0.049	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-10.332	4.5
2	MP2A	Z	17.896	4.5
3	MP2A	Mx	-0.004	4.5
4	MP2A	X	-10.332	5.5
5	MP2A	Z	17.896	5.5
6	MP2A	Mx	-0.004	5.5
7	MP2A	X	-10.332	4.5
8	MP2A	Z	17.896	4.5
9	MP2A	Mx	-0.016	4.5
10	MP2A	X	-10.332	5.5
11	MP2A	Z	17.896	5.5
12	MP2A	Mx	-0.016	5.5
13	MP2B	X	-10.332	4.5
14	MP2B	Z	17.896	4.5
15	MP2B	Mx	-0.004	4.5
16	MP2B	X	-10.332	5.5
17	MP2B	Z	17.896	5.5
18	MP2B	Mx	-0.004	5.5
19	MP2B	X	-10.332	4.5
20	MP2B	Z	17.896	4.5
21	MP2B	Mx	-0.016	4.5
22	MP2B	X	-10.332	5.5
23	MP2B	Z	17.896	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP2B	Mx	-0.016	5.5
25	MP3B	X	-32.924	1
26	MP3B	Z	57.026	1
27	MP3B	Mx	-0.032	1
28	MP4A	X	-76.053	1
29	MP4A	Z	131.727	1
30	MP4A	Mx	-0.013	1
31	MP4B	X	-76.053	1
32	MP4B	Z	131.727	1
33	MP4B	Mx	0.013	1
34	MP4C	X	-32.924	1
35	MP4C	Z	57.026	1
36	MP4C	Mx	0.032	1
37	OVP2	X	-52.332	1.5
38	OVP2	Z	90.642	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-15.318	4.5
41	MP1A	Z	26.532	4.5
42	MP1A	Mx	0.008	4.5
43	MP1B	X	-4.224	4.5
44	MP1B	Z	7.317	4.5
45	MP1B	Mx	-0.004	4.5
46	MP1C	X	-15.318	4.5
47	MP1C	Z	26.532	4.5
48	MP1C	Mx	0.008	4.5
49	MP1A	X	-35.25	1.5
50	MP1A	Z	61.054	1.5
51	MP1A	Mx	0.018	1.5
52	MP1A	X	-35.25	3.5
53	MP1A	Z	61.054	3.5
54	MP1A	Mx	0.018	3.5
55	MP1B	X	-15.353	1.5
56	MP1B	Z	26.592	1.5
57	MP1B	Mx	-0.015	1.5
58	MP1B	X	-15.353	3.5
59	MP1B	Z	26.592	3.5
60	MP1B	Mx	-0.015	3.5
61	MP1C	X	-35.25	1.5
62	MP1C	Z	61.054	1.5
63	MP1C	Mx	0.018	1.5
64	MP1C	X	-35.25	3.5
65	MP1C	Z	61.054	3.5
66	MP1C	Mx	0.018	3.5
67	MP2A	X	-30.598	3.5
68	MP2A	Z	52.998	3.5
69	MP2A	Mx	-0.015	3.5
70	MP2B	X	-22.701	3.5
71	MP2B	Z	39.32	3.5
72	MP2B	Mx	0.022	3.5
73	MP2C	X	-30.598	3.5
74	MP2C	Z	52.998	3.5
75	MP2C	Mx	-0.015	3.5
76	MP3A	X	-29.576	3.5
77	MP3A	Z	51.228	3.5
78	MP3A	Mx	-0.015	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP3B	X	-18.738	3.5
80	MP3B	Z	32.455	3.5
81	MP3B	Mx	0.018	3.5
82	MP3C	X	-29.576	3.5
83	MP3C	Z	51.228	3.5
84	MP3C	Mx	-0.015	3.5
85	M104	X	-54.793	1.5
86	M104	Z	94.904	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-50.889	0.5
89	MP2A	Z	88.143	0.5
90	MP2A	Mx	0.077	0.5
91	MP2A	X	-50.889	5.5
92	MP2A	Z	88.143	5.5
93	MP2A	Mx	0.077	5.5
94	MP2B	X	-26.545	0.5
95	MP2B	Z	45.978	0.5
96	MP2B	Mx	-0.032	0.5
97	MP2B	X	-26.545	5.5
98	MP2B	Z	45.978	5.5
99	MP2B	Mx	-0.032	5.5
100	MP2C	X	-50.889	0.5
101	MP2C	Z	88.143	0.5
102	MP2C	Mx	-0.026	0.5
103	MP2C	X	-50.889	5.5
104	MP2C	Z	88.143	5.5
105	MP2C	Mx	-0.026	5.5
106	MP2A	X	-50.889	0.5
107	MP2A	Z	88.143	0.5
108	MP2A	Mx	-0.026	0.5
109	MP2A	X	-50.889	5.5
110	MP2A	Z	88.143	5.5
111	MP2A	Mx	-0.026	5.5
112	MP2B	X	-26.545	0.5
113	MP2B	Z	45.978	0.5
114	MP2B	Mx	-0.021	0.5
115	MP2B	X	-26.545	5.5
116	MP2B	Z	45.978	5.5
117	MP2B	Mx	-0.021	5.5
118	MP2C	X	-50.889	0.5
119	MP2C	Z	88.143	0.5
120	MP2C	Mx	0.077	0.5
121	MP2C	X	-50.889	5.5
122	MP2C	Z	88.143	5.5
123	MP2C	Mx	0.077	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-17.923	4.5
2	MP2A	Z	10.348	4.5
3	MP2A	Mx	-0.014	4.5
4	MP2A	X	-17.923	5.5
5	MP2A	Z	10.348	5.5
6	MP2A	Mx	-0.014	5.5
7	MP2A	X	-17.923	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
8	MP2A	Z	10.348	4.5
9	MP2A	Mx	-0.021	4.5
10	MP2A	X	-17.923	5.5
11	MP2A	Z	10.348	5.5
12	MP2A	Mx	-0.021	5.5
13	MP2B	X	-17.923	4.5
14	MP2B	Z	10.348	4.5
15	MP2B	Mx	-0.014	4.5
16	MP2B	X	-17.923	5.5
17	MP2B	Z	10.348	5.5
18	MP2B	Mx	-0.014	5.5
19	MP2B	X	-17.923	4.5
20	MP2B	Z	10.348	4.5
21	MP2B	Mx	-0.021	4.5
22	MP2B	X	-17.923	5.5
23	MP2B	Z	10.348	5.5
24	MP2B	Mx	-0.021	5.5
25	MP3B	X	-63.928	1
26	MP3B	Z	36.909	1
27	MP3B	Mx	-0.035	1
28	MP4A	X	-124.825	1
29	MP4A	Z	72.068	1
30	MP4A	Mx	0.025	1
31	MP4B	X	-124.825	1
32	MP4B	Z	72.068	1
33	MP4B	Mx	-0.025	1
34	MP4C	X	-63.928	1
35	MP4C	Z	36.909	1
36	MP4C	Mx	0.035	1
37	OVP2	X	-93.101	1.5
38	OVP2	Z	53.752	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-13.185	4.5
41	MP1A	Z	7.612	4.5
42	MP1A	Mx	0.007	4.5
43	MP1B	X	-9.634	4.5
44	MP1B	Z	5.562	4.5
45	MP1B	Mx	-0.005	4.5
46	MP1C	X	-33.205	4.5
47	MP1C	Z	19.171	4.5
48	MP1C	Mx	0	4.5
49	MP1A	X	-37.117	1.5
50	MP1A	Z	21.429	1.5
51	MP1A	Mx	0.019	1.5
52	MP1A	X	-37.117	3.5
53	MP1A	Z	21.429	3.5
54	MP1A	Mx	0.019	3.5
55	MP1B	X	-30.749	1.5
56	MP1B	Z	17.753	1.5
57	MP1B	Mx	-0.017	1.5
58	MP1B	X	-30.749	3.5
59	MP1B	Z	17.753	3.5
60	MP1B	Mx	-0.017	3.5
61	MP1C	X	-73.023	1.5
62	MP1C	Z	42.16	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
63	MP1C	Mx	0	1.5
64	MP1C	X	-73.023	3.5
65	MP1C	Z	42.16	3.5
66	MP1C	Mx	0	3.5
67	MP2A	X	-43.497	3.5
68	MP2A	Z	25.113	3.5
69	MP2A	Mx	-0.022	3.5
70	MP2B	X	-40.97	3.5
71	MP2B	Z	23.654	3.5
72	MP2B	Mx	0.022	3.5
73	MP2C	X	-57.748	3.5
74	MP2C	Z	33.341	3.5
75	MP2C	Mx	0	3.5
76	MP3A	X	-38.188	3.5
77	MP3A	Z	22.048	3.5
78	MP3A	Mx	-0.019	3.5
79	MP3B	X	-34.719	3.5
80	MP3B	Z	20.045	3.5
81	MP3B	Mx	0.019	3.5
82	MP3C	X	-57.748	3.5
83	MP3C	Z	33.341	3.5
84	MP3C	Mx	0	3.5
85	M104	X	-99.049	1.5
86	M104	Z	57.186	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-58.855	0.5
89	MP2A	Z	33.98	0.5
90	MP2A	Mx	0.049	0.5
91	MP2A	X	-58.855	5.5
92	MP2A	Z	33.98	5.5
93	MP2A	Mx	0.049	5.5
94	MP2B	X	-51.063	0.5
95	MP2B	Z	29.481	0.5
96	MP2B	Mx	-0.016	0.5
97	MP2B	X	-51.063	5.5
98	MP2B	Z	29.481	5.5
99	MP2B	Mx	-0.016	5.5
100	MP2C	X	-102.787	0.5
101	MP2C	Z	59.344	0.5
102	MP2C	Mx	-0.069	0.5
103	MP2C	X	-102.787	5.5
104	MP2C	Z	59.344	5.5
105	MP2C	Mx	-0.069	5.5
106	MP2A	X	-58.855	0.5
107	MP2A	Z	33.98	0.5
108	MP2A	Mx	0.01	0.5
109	MP2A	X	-58.855	5.5
110	MP2A	Z	33.98	5.5
111	MP2A	Mx	0.01	5.5
112	MP2B	X	-51.063	0.5
113	MP2B	Z	29.481	0.5
114	MP2B	Mx	-0.039	0.5
115	MP2B	X	-51.063	5.5
116	MP2B	Z	29.481	5.5
117	MP2B	Mx	-0.039	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
118	MP2C	X	-102.787	0.5
119	MP2C	Z	59.344	0.5
120	MP2C	Mx	0.069	0.5
121	MP2C	X	-102.787	5.5
122	MP2C	Z	59.344	5.5
123	MP2C	Mx	0.069	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-20.711	4.5
2	MP2A	Z	0	4.5
3	MP2A	Mx	-0.021	4.5
4	MP2A	X	-20.711	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-0.021	5.5
7	MP2A	X	-20.711	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	-0.021	4.5
10	MP2A	X	-20.711	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	-0.021	5.5
13	MP2B	X	-20.711	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	-0.021	4.5
16	MP2B	X	-20.711	5.5
17	MP2B	Z	0	5.5
18	MP2B	Mx	-0.021	5.5
19	MP2B	X	-20.711	4.5
20	MP2B	Z	0	4.5
21	MP2B	Mx	-0.021	4.5
22	MP2B	X	-20.711	5.5
23	MP2B	Z	0	5.5
24	MP2B	Mx	-0.021	5.5
25	MP3B	X	-116.946	1
26	MP3B	Z	0	1
27	MP3B	Mx	-0.038	1
28	MP4A	X	-101.007	1
29	MP4A	Z	0	1
30	MP4A	Mx	0.039	1
31	MP4B	X	-101.007	1
32	MP4B	Z	0	1
33	MP4B	Mx	-0.039	1
34	MP4C	X	-116.946	1
35	MP4C	Z	0	1
36	MP4C	Mx	0.038	1
37	OVP2	X	-122.865	1.5
38	OVP2	Z	0	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-7.519	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	0.004	4.5
43	MP1B	X	-25.607	4.5
44	MP1B	Z	0	4.5
45	MP1B	Mx	-0.008	4.5
46	MP1C	X	-30.636	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
47	MP1C	Z	0	4.5
48	MP1C	Mx	-0.008	4.5
49	MP1A	X	-29.039	1.5
50	MP1A	Z	0	1.5
51	MP1A	Mx	0.015	1.5
52	MP1A	X	-29.039	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	0.015	3.5
55	MP1B	X	-61.479	1.5
56	MP1B	Z	0	1.5
57	MP1B	Mx	-0.02	1.5
58	MP1B	X	-61.479	3.5
59	MP1B	Z	0	3.5
60	MP1B	Mx	-0.02	3.5
61	MP1C	X	-70.499	1.5
62	MP1C	Z	0	1.5
63	MP1C	Mx	-0.018	1.5
64	MP1C	X	-70.499	3.5
65	MP1C	Z	0	3.5
66	MP1C	Mx	-0.018	3.5
67	MP2A	X	-44.741	3.5
68	MP2A	Z	0	3.5
69	MP2A	Mx	-0.022	3.5
70	MP2B	X	-57.616	3.5
71	MP2B	Z	0	3.5
72	MP2B	Mx	0.019	3.5
73	MP2C	X	-61.196	3.5
74	MP2C	Z	0	3.5
75	MP2C	Mx	0.015	3.5
76	MP3A	X	-36.567	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	-0.018	3.5
79	MP3B	X	-54.239	3.5
80	MP3B	Z	0	3.5
81	MP3B	Mx	0.017	3.5
82	MP3C	X	-59.153	3.5
83	MP3C	Z	0	3.5
84	MP3C	Mx	0.015	3.5
85	M104	X	-140.271	1.5
86	M104	Z	0	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-51.051	0.5
89	MP2A	Z	0	0.5
90	MP2A	Mx	0.026	0.5
91	MP2A	X	-51.051	5.5
92	MP2A	Z	0	5.5
93	MP2A	Mx	0.026	5.5
94	MP2B	X	-90.742	0.5
95	MP2B	Z	0	0.5
96	MP2B	Mx	0.011	0.5
97	MP2B	X	-90.742	5.5
98	MP2B	Z	0	5.5
99	MP2B	Mx	0.011	5.5
100	MP2C	X	-101.779	0.5
101	MP2C	Z	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
102	MP2C	Mx	-0.077	0.5
103	MP2C	X	-101.779	5.5
104	MP2C	Z	0	5.5
105	MP2C	Mx	-0.077	5.5
106	MP2A	X	-51.051	0.5
107	MP2A	Z	0	0.5
108	MP2A	Mx	0.026	0.5
109	MP2A	X	-51.051	5.5
110	MP2A	Z	0	5.5
111	MP2A	Mx	0.026	5.5
112	MP2B	X	-90.742	0.5
113	MP2B	Z	0	0.5
114	MP2B	Mx	-0.07	0.5
115	MP2B	X	-90.742	5.5
116	MP2B	Z	0	5.5
117	MP2B	Mx	-0.07	5.5
118	MP2C	X	-101.779	0.5
119	MP2C	Z	0	0.5
120	MP2C	Mx	0.026	0.5
121	MP2C	X	-101.779	5.5
122	MP2C	Z	0	5.5
123	MP2C	Mx	0.026	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-17.923	4.5
2	MP2A	Z	-10.348	4.5
3	MP2A	Mx	-0.021	4.5
4	MP2A	X	-17.923	5.5
5	MP2A	Z	-10.348	5.5
6	MP2A	Mx	-0.021	5.5
7	MP2A	X	-17.923	4.5
8	MP2A	Z	-10.348	4.5
9	MP2A	Mx	-0.014	4.5
10	MP2A	X	-17.923	5.5
11	MP2A	Z	-10.348	5.5
12	MP2A	Mx	-0.014	5.5
13	MP2B	X	-17.923	4.5
14	MP2B	Z	-10.348	4.5
15	MP2B	Mx	-0.021	4.5
16	MP2B	X	-17.923	5.5
17	MP2B	Z	-10.348	5.5
18	MP2B	Mx	-0.021	5.5
19	MP2B	X	-17.923	4.5
20	MP2B	Z	-10.348	4.5
21	MP2B	Mx	-0.014	4.5
22	MP2B	X	-17.923	5.5
23	MP2B	Z	-10.348	5.5
24	MP2B	Mx	-0.014	5.5
25	MP3B	X	-131.727	1
26	MP3B	Z	-76.053	1
27	MP3B	Mx	-0.013	1
28	MP4A	X	-57.026	1
29	MP4A	Z	-32.924	1
30	MP4A	Mx	0.032	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP4B	X	-57.026	1
32	MP4B	Z	-32.924	1
33	MP4B	Mx	-0.032	1
34	MP4C	X	-131.727	1
35	MP4C	Z	-76.053	1
36	MP4C	Mx	0.013	1
37	OVP2	X	-117.25	1.5
38	OVP2	Z	-67.694	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-13.185	4.5
41	MP1A	Z	-7.612	4.5
42	MP1A	Mx	0.007	4.5
43	MP1B	X	-32.4	4.5
44	MP1B	Z	-18.706	4.5
45	MP1B	Mx	-0.003	4.5
46	MP1C	X	-13.185	4.5
47	MP1C	Z	-7.612	4.5
48	MP1C	Mx	-0.007	4.5
49	MP1A	X	-37.117	1.5
50	MP1A	Z	-21.429	1.5
51	MP1A	Mx	0.019	1.5
52	MP1A	X	-37.117	3.5
53	MP1A	Z	-21.429	3.5
54	MP1A	Mx	0.019	3.5
55	MP1B	X	-71.579	1.5
56	MP1B	Z	-41.326	1.5
57	MP1B	Mx	-0.007	1.5
58	MP1B	X	-71.579	3.5
59	MP1B	Z	-41.326	3.5
60	MP1B	Mx	-0.007	3.5
61	MP1C	X	-37.117	1.5
62	MP1C	Z	-21.429	1.5
63	MP1C	Mx	-0.019	1.5
64	MP1C	X	-37.117	3.5
65	MP1C	Z	-21.429	3.5
66	MP1C	Mx	-0.019	3.5
67	MP2A	X	-43.497	3.5
68	MP2A	Z	-25.113	3.5
69	MP2A	Mx	-0.022	3.5
70	MP2B	X	-57.175	3.5
71	MP2B	Z	-33.01	3.5
72	MP2B	Mx	0.006	3.5
73	MP2C	X	-43.497	3.5
74	MP2C	Z	-25.113	3.5
75	MP2C	Mx	0.022	3.5
76	MP3A	X	-38.188	3.5
77	MP3A	Z	-22.048	3.5
78	MP3A	Mx	-0.019	3.5
79	MP3B	X	-56.961	3.5
80	MP3B	Z	-32.887	3.5
81	MP3B	Mx	0.006	3.5
82	MP3C	X	-38.188	3.5
83	MP3C	Z	-22.048	3.5
84	MP3C	Mx	0.019	3.5
85	M104	X	-139.763	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	M104	Z	-80.692	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-58.855	0.5
89	MP2A	Z	-33.98	0.5
90	MP2A	Mx	0.01	0.5
91	MP2A	X	-58.855	5.5
92	MP2A	Z	-33.98	5.5
93	MP2A	Mx	0.01	5.5
94	MP2B	X	-101.02	0.5
95	MP2B	Z	-58.324	0.5
96	MP2B	Mx	0.057	0.5
97	MP2B	X	-101.02	5.5
98	MP2B	Z	-58.324	5.5
99	MP2B	Mx	0.057	5.5
100	MP2C	X	-58.855	0.5
101	MP2C	Z	-33.98	0.5
102	MP2C	Mx	-0.049	0.5
103	MP2C	X	-58.855	5.5
104	MP2C	Z	-33.98	5.5
105	MP2C	Mx	-0.049	5.5
106	MP2A	X	-58.855	0.5
107	MP2A	Z	-33.98	0.5
108	MP2A	Mx	0.049	0.5
109	MP2A	X	-58.855	5.5
110	MP2A	Z	-33.98	5.5
111	MP2A	Mx	0.049	5.5
112	MP2B	X	-101.02	0.5
113	MP2B	Z	-58.324	0.5
114	MP2B	Mx	-0.077	0.5
115	MP2B	X	-101.02	5.5
116	MP2B	Z	-58.324	5.5
117	MP2B	Mx	-0.077	5.5
118	MP2C	X	-58.855	0.5
119	MP2C	Z	-33.98	0.5
120	MP2C	Mx	-0.01	0.5
121	MP2C	X	-58.855	5.5
122	MP2C	Z	-33.98	5.5
123	MP2C	Mx	-0.01	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-10.332	4.5
2	MP2A	Z	-17.896	4.5
3	MP2A	Mx	-0.016	4.5
4	MP2A	X	-10.332	5.5
5	MP2A	Z	-17.896	5.5
6	MP2A	Mx	-0.016	5.5
7	MP2A	X	-10.332	4.5
8	MP2A	Z	-17.896	4.5
9	MP2A	Mx	-0.004	4.5
10	MP2A	X	-10.332	5.5
11	MP2A	Z	-17.896	5.5
12	MP2A	Mx	-0.004	5.5
13	MP2B	X	-10.332	4.5
14	MP2B	Z	-17.896	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
15	MP2B	Mx	-0.016	4.5
16	MP2B	X	-10.332	5.5
17	MP2B	Z	-17.896	5.5
18	MP2B	Mx	-0.016	5.5
19	MP2B	X	-10.332	4.5
20	MP2B	Z	-17.896	4.5
21	MP2B	Mx	-0.004	4.5
22	MP2B	X	-10.332	5.5
23	MP2B	Z	-17.896	5.5
24	MP2B	Mx	-0.004	5.5
25	MP3B	X	-72.068	1
26	MP3B	Z	-124.825	1
27	MP3B	Mx	0.025	1
28	MP4A	X	-36.909	1
29	MP4A	Z	-63.928	1
30	MP4A	Mx	0.035	1
31	MP4B	X	-36.909	1
32	MP4B	Z	-63.928	1
33	MP4B	Mx	-0.035	1
34	MP4C	X	-72.068	1
35	MP4C	Z	-124.825	1
36	MP4C	Mx	-0.025	1
37	OVP2	X	-66.275	1.5
38	OVP2	Z	-114.791	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-15.318	4.5
41	MP1A	Z	-26.532	4.5
42	MP1A	Mx	0.008	4.5
43	MP1B	X	-17.368	4.5
44	MP1B	Z	-30.083	4.5
45	MP1B	Mx	0.006	4.5
46	MP1C	X	-3.76	4.5
47	MP1C	Z	-6.512	4.5
48	MP1C	Mx	-0.004	4.5
49	MP1A	X	-35.25	1.5
50	MP1A	Z	-61.054	1.5
51	MP1A	Mx	0.018	1.5
52	MP1A	X	-35.25	3.5
53	MP1A	Z	-61.054	3.5
54	MP1A	Mx	0.018	3.5
55	MP1B	X	-38.927	1.5
56	MP1B	Z	-67.423	1.5
57	MP1B	Mx	0.013	1.5
58	MP1B	X	-38.927	3.5
59	MP1B	Z	-67.423	3.5
60	MP1B	Mx	0.013	3.5
61	MP1C	X	-14.519	1.5
62	MP1C	Z	-25.148	1.5
63	MP1C	Mx	-0.015	1.5
64	MP1C	X	-14.519	3.5
65	MP1C	Z	-25.148	3.5
66	MP1C	Mx	-0.015	3.5
67	MP2A	X	-30.598	3.5
68	MP2A	Z	-52.998	3.5
69	MP2A	Mx	-0.015	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
70	MP2B	X	-32.057	3.5
71	MP2B	Z	-55.525	3.5
72	MP2B	Mx	-0.011	3.5
73	MP2C	X	-22.371	3.5
74	MP2C	Z	-38.747	3.5
75	MP2C	Mx	0.022	3.5
76	MP3A	X	-29.576	3.5
77	MP3A	Z	-51.228	3.5
78	MP3A	Mx	-0.015	3.5
79	MP3B	X	-31.579	3.5
80	MP3B	Z	-54.697	3.5
81	MP3B	Mx	-0.011	3.5
82	MP3C	X	-18.284	3.5
83	MP3C	Z	-31.668	3.5
84	MP3C	Mx	0.018	3.5
85	M104	X	-78.299	1.5
86	M104	Z	-135.618	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-50.889	0.5
89	MP2A	Z	-88.143	0.5
90	MP2A	Mx	-0.026	0.5
91	MP2A	X	-50.889	5.5
92	MP2A	Z	-88.143	5.5
93	MP2A	Mx	-0.026	5.5
94	MP2B	X	-55.388	0.5
95	MP2B	Z	-95.935	0.5
96	MP2B	Mx	0.08	0.5
97	MP2B	X	-55.388	5.5
98	MP2B	Z	-95.935	5.5
99	MP2B	Mx	0.08	5.5
100	MP2C	X	-25.525	0.5
101	MP2C	Z	-44.211	0.5
102	MP2C	Mx	-0.026	0.5
103	MP2C	X	-25.525	5.5
104	MP2C	Z	-44.211	5.5
105	MP2C	Mx	-0.026	5.5
106	MP2A	X	-50.889	0.5
107	MP2A	Z	-88.143	0.5
108	MP2A	Mx	0.077	0.5
109	MP2A	X	-50.889	5.5
110	MP2A	Z	-88.143	5.5
111	MP2A	Mx	0.077	5.5
112	MP2B	X	-55.388	0.5
113	MP2B	Z	-95.935	0.5
114	MP2B	Mx	-0.042	0.5
115	MP2B	X	-55.388	5.5
116	MP2B	Z	-95.935	5.5
117	MP2B	Mx	-0.042	5.5
118	MP2C	X	-25.525	0.5
119	MP2C	Z	-44.211	0.5
120	MP2C	Mx	-0.026	0.5
121	MP2C	X	-25.525	5.5
122	MP2C	Z	-44.211	5.5
123	MP2C	Mx	-0.026	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	4.5
2	MP2A	Z	-2.15	4.5
3	MP2A	Mx	-0.000717	4.5
4	MP2A	X	0	5.5
5	MP2A	Z	-2.15	5.5
6	MP2A	Mx	-0.000717	5.5
7	MP2A	X	0	4.5
8	MP2A	Z	-2.15	4.5
9	MP2A	Mx	0.000717	4.5
10	MP2A	X	0	5.5
11	MP2A	Z	-2.15	5.5
12	MP2A	Mx	0.000717	5.5
13	MP2B	X	0	4.5
14	MP2B	Z	-2.15	4.5
15	MP2B	Mx	-0.000717	4.5
16	MP2B	X	0	5.5
17	MP2B	Z	-2.15	5.5
18	MP2B	Mx	-0.000717	5.5
19	MP2B	X	0	4.5
20	MP2B	Z	-2.15	4.5
21	MP2B	Mx	0.000717	4.5
22	MP2B	X	0	5.5
23	MP2B	Z	-2.15	5.5
24	MP2B	Mx	0.000717	5.5
25	MP3B	X	0	1
26	MP3B	Z	-22.314	1
27	MP3B	Mx	0.009	1
28	MP4A	X	0	1
29	MP4A	Z	-25.372	1
30	MP4A	Mx	0.008	1
31	MP4B	X	0	1
32	MP4B	Z	-25.372	1
33	MP4B	Mx	-0.008	1
34	MP4C	X	0	1
35	MP4C	Z	-22.314	1
36	MP4C	Mx	-0.009	1
37	OVP2	X	0	1.5
38	OVP2	Z	-32.071	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0	4.5
41	MP1A	Z	-9.778	4.5
42	MP1A	Mx	0	4.5
43	MP1B	X	0	4.5
44	MP1B	Z	-5.997	4.5
45	MP1B	Mx	0.002	4.5
46	MP1C	X	0	4.5
47	MP1C	Z	-4.945	4.5
48	MP1C	Mx	-0.002	4.5
49	MP1A	X	0	1.5
50	MP1A	Z	-21.049	1.5
51	MP1A	Mx	0	1.5
52	MP1A	X	0	3.5
53	MP1A	Z	-21.049	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1B	Z	-14.188	1.5
57	MP1B	Mx	0.005	1.5
58	MP1B	X	0	3.5
59	MP1B	Z	-14.188	3.5
60	MP1B	Mx	0.005	3.5
61	MP1C	X	0	1.5
62	MP1C	Z	-12.28	1.5
63	MP1C	Mx	-0.005	1.5
64	MP1C	X	0	3.5
65	MP1C	Z	-12.28	3.5
66	MP1C	Mx	-0.005	3.5
67	MP2A	X	0	3.5
68	MP2A	Z	-18.245	3.5
69	MP2A	Mx	0	3.5
70	MP2B	X	0	3.5
71	MP2B	Z	-15.134	3.5
72	MP2B	Mx	-0.006	3.5
73	MP2C	X	0	3.5
74	MP2C	Z	-14.269	3.5
75	MP2C	Mx	0.006	3.5
76	MP3A	X	0	3.5
77	MP3A	Z	-18.245	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	3.5
80	MP3B	Z	-13.952	3.5
81	MP3B	Mx	-0.005	3.5
82	MP3C	X	0	3.5
83	MP3C	Z	-12.758	3.5
84	MP3C	Mx	0.006	3.5
85	M104	X	0	1.5
86	M104	Z	-28.229	1.5
87	M104	Mx	0	1.5
88	MP2A	X	0	0.5
89	MP2A	Z	-35.377	0.5
90	MP2A	Mx	-0.021	0.5
91	MP2A	X	0	5.5
92	MP2A	Z	-35.377	5.5
93	MP2A	Mx	-0.021	5.5
94	MP2B	X	0	0.5
95	MP2B	Z	-29.221	0.5
96	MP2B	Mx	0.022	0.5
97	MP2B	X	0	5.5
98	MP2B	Z	-29.221	5.5
99	MP2B	Mx	0.022	5.5
100	MP2C	X	0	0.5
101	MP2C	Z	-27.51	0.5
102	MP2C	Mx	-0.004	0.5
103	MP2C	X	0	5.5
104	MP2C	Z	-27.51	5.5
105	MP2C	Mx	-0.004	5.5
106	MP2A	X	0	0.5
107	MP2A	Z	-35.377	0.5
108	MP2A	Mx	0.021	0.5
109	MP2A	X	0	5.5
110	MP2A	Z	-35.377	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP2A	Mx	0.021	5.5
112	MP2B	X	0	0.5
113	MP2B	Z	-29.221	0.5
114	MP2B	Mx	0.000236	0.5
115	MP2B	X	0	5.5
116	MP2B	Z	-29.221	5.5
117	MP2B	Mx	0.000236	5.5
118	MP2C	X	0	0.5
119	MP2C	Z	-27.51	0.5
120	MP2C	Mx	-0.02	0.5
121	MP2C	X	0	5.5
122	MP2C	Z	-27.51	5.5
123	MP2C	Mx	-0.02	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	1.454	4.5
2	MP2A	Z	-2.518	4.5
3	MP2A	Mx	0.000615	4.5
4	MP2A	X	1.454	5.5
5	MP2A	Z	-2.518	5.5
6	MP2A	Mx	0.000615	5.5
7	MP2A	X	1.454	4.5
8	MP2A	Z	-2.518	4.5
9	MP2A	Mx	0.002	4.5
10	MP2A	X	1.454	5.5
11	MP2A	Z	-2.518	5.5
12	MP2A	Mx	0.002	5.5
13	MP2B	X	1.454	4.5
14	MP2B	Z	-2.518	4.5
15	MP2B	Mx	0.000615	4.5
16	MP2B	X	1.454	5.5
17	MP2B	Z	-2.518	5.5
18	MP2B	Mx	0.000615	5.5
19	MP2B	X	1.454	4.5
20	MP2B	Z	-2.518	4.5
21	MP2B	Mx	0.002	4.5
22	MP2B	X	1.454	5.5
23	MP2B	Z	-2.518	5.5
24	MP2B	Mx	0.002	5.5
25	MP3B	X	7.784	1
26	MP3B	Z	-13.482	1
27	MP3B	Mx	0.008	1
28	MP4A	X	16.059	1
29	MP4A	Z	-27.814	1
30	MP4A	Mx	0.003	1
31	MP4B	X	16.059	1
32	MP4B	Z	-27.814	1
33	MP4B	Mx	-0.003	1
34	MP4C	X	7.784	1
35	MP4C	Z	-13.482	1
36	MP4C	Mx	-0.008	1
37	OVP2	X	14.569	1.5
38	OVP2	Z	-25.235	1.5
39	OVP2	Mx	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP1A	X	4.083	4.5
41	MP1A	Z	-7.073	4.5
42	MP1A	Mx	-0.002	4.5
43	MP1B	X	1.764	4.5
44	MP1B	Z	-3.056	4.5
45	MP1B	Mx	0.002	4.5
46	MP1C	X	4.083	4.5
47	MP1C	Z	-7.073	4.5
48	MP1C	Mx	-0.002	4.5
49	MP1A	X	9.063	1.5
50	MP1A	Z	-15.698	1.5
51	MP1A	Mx	-0.005	1.5
52	MP1A	X	9.063	3.5
53	MP1A	Z	-15.698	3.5
54	MP1A	Mx	-0.005	3.5
55	MP1B	X	4.855	1.5
56	MP1B	Z	-8.409	1.5
57	MP1B	Mx	0.005	1.5
58	MP1B	X	4.855	3.5
59	MP1B	Z	-8.409	3.5
60	MP1B	Mx	0.005	3.5
61	MP1C	X	9.063	1.5
62	MP1C	Z	-15.698	1.5
63	MP1C	Mx	-0.005	1.5
64	MP1C	X	9.063	3.5
65	MP1C	Z	-15.698	3.5
66	MP1C	Mx	-0.005	3.5
67	MP2A	X	8.46	3.5
68	MP2A	Z	-14.653	3.5
69	MP2A	Mx	0.004	3.5
70	MP2B	X	6.552	3.5
71	MP2B	Z	-11.348	3.5
72	MP2B	Mx	-0.006	3.5
73	MP2C	X	8.46	3.5
74	MP2C	Z	-14.653	3.5
75	MP2C	Mx	0.004	3.5
76	MP3A	X	8.208	3.5
77	MP3A	Z	-14.217	3.5
78	MP3A	Mx	0.004	3.5
79	MP3B	X	5.575	3.5
80	MP3B	Z	-9.656	3.5
81	MP3B	Mx	-0.005	3.5
82	MP3C	X	8.208	3.5
83	MP3C	Z	-14.217	3.5
84	MP3C	Mx	0.004	3.5
85	M104	X	12.123	1.5
86	M104	Z	-20.998	1.5
87	M104	Mx	0	1.5
88	MP2A	X	16.377	0.5
89	MP2A	Z	-28.366	0.5
90	MP2A	Mx	-0.025	0.5
91	MP2A	X	16.377	5.5
92	MP2A	Z	-28.366	5.5
93	MP2A	Mx	-0.025	5.5
94	MP2B	X	12.602	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP2B	Z	-21.827	0.5
96	MP2B	Mx	0.015	0.5
97	MP2B	X	12.602	5.5
98	MP2B	Z	-21.827	5.5
99	MP2B	Mx	0.015	5.5
100	MP2C	X	16.377	0.5
101	MP2C	Z	-28.366	0.5
102	MP2C	Mx	0.008	0.5
103	MP2C	X	16.377	5.5
104	MP2C	Z	-28.366	5.5
105	MP2C	Mx	0.008	5.5
106	MP2A	X	16.377	0.5
107	MP2A	Z	-28.366	0.5
108	MP2A	Mx	0.008	0.5
109	MP2A	X	16.377	5.5
110	MP2A	Z	-28.366	5.5
111	MP2A	Mx	0.008	5.5
112	MP2B	X	12.602	0.5
113	MP2B	Z	-21.827	0.5
114	MP2B	Mx	0.01	0.5
115	MP2B	X	12.602	5.5
116	MP2B	Z	-21.827	5.5
117	MP2B	Mx	0.01	5.5
118	MP2C	X	16.377	0.5
119	MP2C	Z	-28.366	0.5
120	MP2C	Mx	-0.025	0.5
121	MP2C	X	16.377	5.5
122	MP2C	Z	-28.366	5.5
123	MP2C	Mx	-0.025	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	3.829	4.5
2	MP2A	Z	-2.21	4.5
3	MP2A	Mx	0.003	4.5
4	MP2A	X	3.829	5.5
5	MP2A	Z	-2.21	5.5
6	MP2A	Mx	0.003	5.5
7	MP2A	X	3.829	4.5
8	MP2A	Z	-2.21	4.5
9	MP2A	Mx	0.005	4.5
10	MP2A	X	3.829	5.5
11	MP2A	Z	-2.21	5.5
12	MP2A	Mx	0.005	5.5
13	MP2B	X	3.829	4.5
14	MP2B	Z	-2.21	4.5
15	MP2B	Mx	0.003	4.5
16	MP2B	X	3.829	5.5
17	MP2B	Z	-2.21	5.5
18	MP2B	Mx	0.003	5.5
19	MP2B	X	3.829	4.5
20	MP2B	Z	-2.21	4.5
21	MP2B	Mx	0.005	4.5
22	MP2B	X	3.829	5.5
23	MP2B	Z	-2.21	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP2B	Mx	0.005	5.5
25	MP3B	X	14.807	1
26	MP3B	Z	-8.549	1
27	MP3B	Mx	0.008	1
28	MP4A	X	26.49	1
29	MP4A	Z	-15.294	1
30	MP4A	Mx	-0.005	1
31	MP4B	X	26.49	1
32	MP4B	Z	-15.294	1
33	MP4B	Mx	0.005	1
34	MP4C	X	14.807	1
35	MP4C	Z	-8.549	1
36	MP4C	Mx	-0.008	1
37	OVP2	X	25.81	1.5
38	OVP2	Z	-14.902	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	4.283	4.5
41	MP1A	Z	-2.473	4.5
42	MP1A	Mx	-0.002	4.5
43	MP1B	X	3.54	4.5
44	MP1B	Z	-2.044	4.5
45	MP1B	Mx	0.002	4.5
46	MP1C	X	8.468	4.5
47	MP1C	Z	-4.889	4.5
48	MP1C	Mx	0	4.5
49	MP1A	X	10.635	1.5
50	MP1A	Z	-6.14	1.5
51	MP1A	Mx	-0.005	1.5
52	MP1A	X	10.635	3.5
53	MP1A	Z	-6.14	3.5
54	MP1A	Mx	-0.005	3.5
55	MP1B	X	9.288	1.5
56	MP1B	Z	-5.363	1.5
57	MP1B	Mx	0.005	1.5
58	MP1B	X	9.288	3.5
59	MP1B	Z	-5.363	3.5
60	MP1B	Mx	0.005	3.5
61	MP1C	X	18.229	1.5
62	MP1C	Z	-10.525	1.5
63	MP1C	Mx	0	1.5
64	MP1C	X	18.229	3.5
65	MP1C	Z	-10.525	3.5
66	MP1C	Mx	0	3.5
67	MP2A	X	12.357	3.5
68	MP2A	Z	-7.135	3.5
69	MP2A	Mx	0.006	3.5
70	MP2B	X	11.747	3.5
71	MP2B	Z	-6.782	3.5
72	MP2B	Mx	-0.006	3.5
73	MP2C	X	15.801	3.5
74	MP2C	Z	-9.122	3.5
75	MP2C	Mx	0	3.5
76	MP3A	X	11.049	3.5
77	MP3A	Z	-6.379	3.5
78	MP3A	Mx	0.006	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP3B	X	10.206	3.5
80	MP3B	Z	-5.893	3.5
81	MP3B	Mx	-0.006	3.5
82	MP3C	X	15.801	3.5
83	MP3C	Z	-9.122	3.5
84	MP3C	Mx	0	3.5
85	M104	X	21.78	1.5
86	M104	Z	-12.575	1.5
87	M104	Mx	0	1.5
88	MP2A	X	23.824	0.5
89	MP2A	Z	-13.755	0.5
90	MP2A	Mx	-0.02	0.5
91	MP2A	X	23.824	5.5
92	MP2A	Z	-13.755	5.5
93	MP2A	Mx	-0.02	5.5
94	MP2B	X	22.616	0.5
95	MP2B	Z	-13.057	0.5
96	MP2B	Mx	0.007	0.5
97	MP2B	X	22.616	5.5
98	MP2B	Z	-13.057	5.5
99	MP2B	Mx	0.007	5.5
100	MP2C	X	30.638	0.5
101	MP2C	Z	-17.689	0.5
102	MP2C	Mx	0.021	0.5
103	MP2C	X	30.638	5.5
104	MP2C	Z	-17.689	5.5
105	MP2C	Mx	0.021	5.5
106	MP2A	X	23.824	0.5
107	MP2A	Z	-13.755	0.5
108	MP2A	Mx	-0.004	0.5
109	MP2A	X	23.824	5.5
110	MP2A	Z	-13.755	5.5
111	MP2A	Mx	-0.004	5.5
112	MP2B	X	22.616	0.5
113	MP2B	Z	-13.057	0.5
114	MP2B	Mx	0.017	0.5
115	MP2B	X	22.616	5.5
116	MP2B	Z	-13.057	5.5
117	MP2B	Mx	0.017	5.5
118	MP2C	X	30.638	0.5
119	MP2C	Z	-17.689	0.5
120	MP2C	Mx	-0.021	0.5
121	MP2C	X	30.638	5.5
122	MP2C	Z	-17.689	5.5
123	MP2C	Mx	-0.021	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	5.178	4.5
2	MP2A	Z	0	4.5
3	MP2A	Mx	0.005	4.5
4	MP2A	X	5.178	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	0.005	5.5
7	MP2A	X	5.178	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
8	MP2A	Z	0	4.5
9	MP2A	Mx	0.005	4.5
10	MP2A	X	5.178	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	0.005	5.5
13	MP2B	X	5.178	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	0.005	4.5
16	MP2B	X	5.178	5.5
17	MP2B	Z	0	5.5
18	MP2B	Mx	0.005	5.5
19	MP2B	X	5.178	4.5
20	MP2B	Z	0	4.5
21	MP2B	Mx	0.005	4.5
22	MP2B	X	5.178	5.5
23	MP2B	Z	0	5.5
24	MP2B	Mx	0.005	5.5
25	MP3B	X	25.372	1
26	MP3B	Z	0	1
27	MP3B	Mx	0.008	1
28	MP4A	X	22.314	1
29	MP4A	Z	0	1
30	MP4A	Mx	-0.009	1
31	MP4B	X	22.314	1
32	MP4B	Z	0	1
33	MP4B	Mx	0.009	1
34	MP4C	X	25.372	1
35	MP4C	Z	0	1
36	MP4C	Mx	-0.008	1
37	OVP2	X	33.4	1.5
38	OVP2	Z	0	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	3.334	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	-0.002	4.5
43	MP1B	X	7.115	4.5
44	MP1B	Z	0	4.5
45	MP1B	Mx	0.002	4.5
46	MP1C	X	8.167	4.5
47	MP1C	Z	0	4.5
48	MP1C	Mx	0.002	4.5
49	MP1A	X	9.357	1.5
50	MP1A	Z	0	1.5
51	MP1A	Mx	-0.005	1.5
52	MP1A	X	9.357	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	-0.005	3.5
55	MP1B	X	16.218	1.5
56	MP1B	Z	0	1.5
57	MP1B	Mx	0.005	1.5
58	MP1B	X	16.218	3.5
59	MP1B	Z	0	3.5
60	MP1B	Mx	0.005	3.5
61	MP1C	X	18.126	1.5
62	MP1C	Z	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
63	MP1C	Mx	0.005	1.5
64	MP1C	X	18.126	3.5
65	MP1C	Z	0	3.5
66	MP1C	Mx	0.005	3.5
67	MP2A	X	12.944	3.5
68	MP2A	Z	0	3.5
69	MP2A	Mx	0.006	3.5
70	MP2B	X	16.055	3.5
71	MP2B	Z	0	3.5
72	MP2B	Mx	-0.005	3.5
73	MP2C	X	16.92	3.5
74	MP2C	Z	0	3.5
75	MP2C	Mx	-0.004	3.5
76	MP3A	X	10.929	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	0.005	3.5
79	MP3B	X	15.222	3.5
80	MP3B	Z	0	3.5
81	MP3B	Mx	-0.005	3.5
82	MP3C	X	16.416	3.5
83	MP3C	Z	0	3.5
84	MP3C	Mx	-0.004	3.5
85	M104	X	30.034	1.5
86	M104	Z	0	1.5
87	M104	Mx	0	1.5
88	MP2A	X	24.887	0.5
89	MP2A	Z	0	0.5
90	MP2A	Mx	-0.012	0.5
91	MP2A	X	24.887	5.5
92	MP2A	Z	0	5.5
93	MP2A	Mx	-0.012	5.5
94	MP2B	X	31.043	0.5
95	MP2B	Z	0	0.5
96	MP2B	Mx	-0.004	0.5
97	MP2B	X	31.043	5.5
98	MP2B	Z	0	5.5
99	MP2B	Mx	-0.004	5.5
100	MP2C	X	32.755	0.5
101	MP2C	Z	0	0.5
102	MP2C	Mx	0.025	0.5
103	MP2C	X	32.755	5.5
104	MP2C	Z	0	5.5
105	MP2C	Mx	0.025	5.5
106	MP2A	X	24.887	0.5
107	MP2A	Z	0	0.5
108	MP2A	Mx	-0.012	0.5
109	MP2A	X	24.887	5.5
110	MP2A	Z	0	5.5
111	MP2A	Mx	-0.012	5.5
112	MP2B	X	31.043	0.5
113	MP2B	Z	0	0.5
114	MP2B	Mx	0.024	0.5
115	MP2B	X	31.043	5.5
116	MP2B	Z	0	5.5
117	MP2B	Mx	0.024	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
118	MP2C	X	32.755	0.5
119	MP2C	Z	0	0.5
120	MP2C	Mx	-0.008	0.5
121	MP2C	X	32.755	5.5
122	MP2C	Z	0	5.5
123	MP2C	Mx	-0.008	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	3.829	4.5
2	MP2A	Z	2.21	4.5
3	MP2A	Mx	0.005	4.5
4	MP2A	X	3.829	5.5
5	MP2A	Z	2.21	5.5
6	MP2A	Mx	0.005	5.5
7	MP2A	X	3.829	4.5
8	MP2A	Z	2.21	4.5
9	MP2A	Mx	0.003	4.5
10	MP2A	X	3.829	5.5
11	MP2A	Z	2.21	5.5
12	MP2A	Mx	0.003	5.5
13	MP2B	X	3.829	4.5
14	MP2B	Z	2.21	4.5
15	MP2B	Mx	0.005	4.5
16	MP2B	X	3.829	5.5
17	MP2B	Z	2.21	5.5
18	MP2B	Mx	0.005	5.5
19	MP2B	X	3.829	4.5
20	MP2B	Z	2.21	4.5
21	MP2B	Mx	0.003	4.5
22	MP2B	X	3.829	5.5
23	MP2B	Z	2.21	5.5
24	MP2B	Mx	0.003	5.5
25	MP3B	X	27.814	1
26	MP3B	Z	16.059	1
27	MP3B	Mx	0.003	1
28	MP4A	X	13.482	1
29	MP4A	Z	7.784	1
30	MP4A	Mx	-0.008	1
31	MP4B	X	13.482	1
32	MP4B	Z	7.784	1
33	MP4B	Mx	0.008	1
34	MP4C	X	27.814	1
35	MP4C	Z	16.059	1
36	MP4C	Mx	-0.003	1
37	OVP2	X	31.464	1.5
38	OVP2	Z	18.166	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	4.283	4.5
41	MP1A	Z	2.473	4.5
42	MP1A	Mx	-0.002	4.5
43	MP1B	X	8.299	4.5
44	MP1B	Z	4.792	4.5
45	MP1B	Mx	0.000832	4.5
46	MP1C	X	4.283	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
47	MP1C	Z	2.473	4.5
48	MP1C	Mx	0.002	4.5
49	MP1A	X	10.635	1.5
50	MP1A	Z	6.14	1.5
51	MP1A	Mx	-0.005	1.5
52	MP1A	X	10.635	3.5
53	MP1A	Z	6.14	3.5
54	MP1A	Mx	-0.005	3.5
55	MP1B	X	17.924	1.5
56	MP1B	Z	10.348	1.5
57	MP1B	Mx	0.002	1.5
58	MP1B	X	17.924	3.5
59	MP1B	Z	10.348	3.5
60	MP1B	Mx	0.002	3.5
61	MP1C	X	10.635	1.5
62	MP1C	Z	6.14	1.5
63	MP1C	Mx	0.005	1.5
64	MP1C	X	10.635	3.5
65	MP1C	Z	6.14	3.5
66	MP1C	Mx	0.005	3.5
67	MP2A	X	12.357	3.5
68	MP2A	Z	7.135	3.5
69	MP2A	Mx	0.006	3.5
70	MP2B	X	15.662	3.5
71	MP2B	Z	9.043	3.5
72	MP2B	Mx	-0.002	3.5
73	MP2C	X	12.357	3.5
74	MP2C	Z	7.135	3.5
75	MP2C	Mx	-0.006	3.5
76	MP3A	X	11.049	3.5
77	MP3A	Z	6.379	3.5
78	MP3A	Mx	0.006	3.5
79	MP3B	X	15.61	3.5
80	MP3B	Z	9.012	3.5
81	MP3B	Mx	-0.002	3.5
82	MP3C	X	11.049	3.5
83	MP3C	Z	6.379	3.5
84	MP3C	Mx	-0.006	3.5
85	M104	X	29.459	1.5
86	M104	Z	17.008	1.5
87	M104	Mx	0	1.5
88	MP2A	X	23.824	0.5
89	MP2A	Z	13.755	0.5
90	MP2A	Mx	-0.004	0.5
91	MP2A	X	23.824	5.5
92	MP2A	Z	13.755	5.5
93	MP2A	Mx	-0.004	5.5
94	MP2B	X	30.364	0.5
95	MP2B	Z	17.53	0.5
96	MP2B	Mx	-0.017	0.5
97	MP2B	X	30.364	5.5
98	MP2B	Z	17.53	5.5
99	MP2B	Mx	-0.017	5.5
100	MP2C	X	23.824	0.5
101	MP2C	Z	13.755	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
102	MP2C	Mx	0.02	0.5
103	MP2C	X	23.824	5.5
104	MP2C	Z	13.755	5.5
105	MP2C	Mx	0.02	5.5
106	MP2A	X	23.824	0.5
107	MP2A	Z	13.755	0.5
108	MP2A	Mx	-0.02	0.5
109	MP2A	X	23.824	5.5
110	MP2A	Z	13.755	5.5
111	MP2A	Mx	-0.02	5.5
112	MP2B	X	30.364	0.5
113	MP2B	Z	17.53	0.5
114	MP2B	Mx	0.023	0.5
115	MP2B	X	30.364	5.5
116	MP2B	Z	17.53	5.5
117	MP2B	Mx	0.023	5.5
118	MP2C	X	23.824	0.5
119	MP2C	Z	13.755	0.5
120	MP2C	Mx	0.004	0.5
121	MP2C	X	23.824	5.5
122	MP2C	Z	13.755	5.5
123	MP2C	Mx	0.004	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	1.454	4.5
2	MP2A	Z	2.518	4.5
3	MP2A	Mx	0.002	4.5
4	MP2A	X	1.454	5.5
5	MP2A	Z	2.518	5.5
6	MP2A	Mx	0.002	5.5
7	MP2A	X	1.454	4.5
8	MP2A	Z	2.518	4.5
9	MP2A	Mx	0.000615	4.5
10	MP2A	X	1.454	5.5
11	MP2A	Z	2.518	5.5
12	MP2A	Mx	0.000615	5.5
13	MP2B	X	1.454	4.5
14	MP2B	Z	2.518	4.5
15	MP2B	Mx	0.002	4.5
16	MP2B	X	1.454	5.5
17	MP2B	Z	2.518	5.5
18	MP2B	Mx	0.002	5.5
19	MP2B	X	1.454	4.5
20	MP2B	Z	2.518	4.5
21	MP2B	Mx	0.000615	4.5
22	MP2B	X	1.454	5.5
23	MP2B	Z	2.518	5.5
24	MP2B	Mx	0.000615	5.5
25	MP3B	X	15.294	1
26	MP3B	Z	26.49	1
27	MP3B	Mx	-0.005	1
28	MP4A	X	8.549	1
29	MP4A	Z	14.807	1
30	MP4A	Mx	-0.008	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP4B	X	8.549	1
32	MP4B	Z	14.807	1
33	MP4B	Mx	0.008	1
34	MP4C	X	15.294	1
35	MP4C	Z	26.49	1
36	MP4C	Mx	0.005	1
37	OVP2	X	17.834	1.5
38	OVP2	Z	30.889	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	4.083	4.5
41	MP1A	Z	7.073	4.5
42	MP1A	Mx	-0.002	4.5
43	MP1B	X	4.512	4.5
44	MP1B	Z	7.815	4.5
45	MP1B	Mx	-0.002	4.5
46	MP1C	X	1.667	4.5
47	MP1C	Z	2.888	4.5
48	MP1C	Mx	0.002	4.5
49	MP1A	X	9.063	1.5
50	MP1A	Z	15.698	1.5
51	MP1A	Mx	-0.005	1.5
52	MP1A	X	9.063	3.5
53	MP1A	Z	15.698	3.5
54	MP1A	Mx	-0.005	3.5
55	MP1B	X	9.841	1.5
56	MP1B	Z	17.045	1.5
57	MP1B	Mx	-0.003	1.5
58	MP1B	X	9.841	3.5
59	MP1B	Z	17.045	3.5
60	MP1B	Mx	-0.003	3.5
61	MP1C	X	4.679	1.5
62	MP1C	Z	8.104	1.5
63	MP1C	Mx	0.005	1.5
64	MP1C	X	4.679	3.5
65	MP1C	Z	8.104	3.5
66	MP1C	Mx	0.005	3.5
67	MP2A	X	8.46	3.5
68	MP2A	Z	14.653	3.5
69	MP2A	Mx	0.004	3.5
70	MP2B	X	8.812	3.5
71	MP2B	Z	15.264	3.5
72	MP2B	Mx	0.003	3.5
73	MP2C	X	6.472	3.5
74	MP2C	Z	11.21	3.5
75	MP2C	Mx	-0.006	3.5
76	MP3A	X	8.208	3.5
77	MP3A	Z	14.217	3.5
78	MP3A	Mx	0.004	3.5
79	MP3B	X	8.695	3.5
80	MP3B	Z	15.059	3.5
81	MP3B	Mx	0.003	3.5
82	MP3C	X	5.465	3.5
83	MP3C	Z	9.465	3.5
84	MP3C	Mx	-0.005	3.5
85	M104	X	16.557	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	M104	Z	28.677	1.5
87	M104	Mx	0	1.5
88	MP2A	X	16.377	0.5
89	MP2A	Z	28.366	0.5
90	MP2A	Mx	0.008	0.5
91	MP2A	X	16.377	5.5
92	MP2A	Z	28.366	5.5
93	MP2A	Mx	0.008	5.5
94	MP2B	X	17.075	0.5
95	MP2B	Z	29.575	0.5
96	MP2B	Mx	-0.025	0.5
97	MP2B	X	17.075	5.5
98	MP2B	Z	29.575	5.5
99	MP2B	Mx	-0.025	5.5
100	MP2C	X	12.444	0.5
101	MP2C	Z	21.553	0.5
102	MP2C	Mx	0.012	0.5
103	MP2C	X	12.444	5.5
104	MP2C	Z	21.553	5.5
105	MP2C	Mx	0.012	5.5
106	MP2A	X	16.377	0.5
107	MP2A	Z	28.366	0.5
108	MP2A	Mx	-0.025	0.5
109	MP2A	X	16.377	5.5
110	MP2A	Z	28.366	5.5
111	MP2A	Mx	-0.025	5.5
112	MP2B	X	17.075	0.5
113	MP2B	Z	29.575	0.5
114	MP2B	Mx	0.013	0.5
115	MP2B	X	17.075	5.5
116	MP2B	Z	29.575	5.5
117	MP2B	Mx	0.013	5.5
118	MP2C	X	12.444	0.5
119	MP2C	Z	21.553	0.5
120	MP2C	Mx	0.012	0.5
121	MP2C	X	12.444	5.5
122	MP2C	Z	21.553	5.5
123	MP2C	Mx	0.012	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	4.5
2	MP2A	Z	2.15	4.5
3	MP2A	Mx	0.000717	4.5
4	MP2A	X	0	5.5
5	MP2A	Z	2.15	5.5
6	MP2A	Mx	0.000717	5.5
7	MP2A	X	0	4.5
8	MP2A	Z	2.15	4.5
9	MP2A	Mx	-0.000717	4.5
10	MP2A	X	0	5.5
11	MP2A	Z	2.15	5.5
12	MP2A	Mx	-0.000717	5.5
13	MP2B	X	0	4.5
14	MP2B	Z	2.15	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
15	MP2B	Mx	0.000717	4.5
16	MP2B	X	0	5.5
17	MP2B	Z	2.15	5.5
18	MP2B	Mx	0.000717	5.5
19	MP2B	X	0	4.5
20	MP2B	Z	2.15	4.5
21	MP2B	Mx	-0.000717	4.5
22	MP2B	X	0	5.5
23	MP2B	Z	2.15	5.5
24	MP2B	Mx	-0.000717	5.5
25	MP3B	X	0	1
26	MP3B	Z	22.314	1
27	MP3B	Mx	-0.009	1
28	MP4A	X	0	1
29	MP4A	Z	25.372	1
30	MP4A	Mx	-0.008	1
31	MP4B	X	0	1
32	MP4B	Z	25.372	1
33	MP4B	Mx	0.008	1
34	MP4C	X	0	1
35	MP4C	Z	22.314	1
36	MP4C	Mx	0.009	1
37	OVP2	X	0	1.5
38	OVP2	Z	32.071	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0	4.5
41	MP1A	Z	9.778	4.5
42	MP1A	Mx	0	4.5
43	MP1B	X	0	4.5
44	MP1B	Z	5.997	4.5
45	MP1B	Mx	-0.002	4.5
46	MP1C	X	0	4.5
47	MP1C	Z	4.945	4.5
48	MP1C	Mx	0.002	4.5
49	MP1A	X	0	1.5
50	MP1A	Z	21.049	1.5
51	MP1A	Mx	0	1.5
52	MP1A	X	0	3.5
53	MP1A	Z	21.049	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	1.5
56	MP1B	Z	14.188	1.5
57	MP1B	Mx	-0.005	1.5
58	MP1B	X	0	3.5
59	MP1B	Z	14.188	3.5
60	MP1B	Mx	-0.005	3.5
61	MP1C	X	0	1.5
62	MP1C	Z	12.28	1.5
63	MP1C	Mx	0.005	1.5
64	MP1C	X	0	3.5
65	MP1C	Z	12.28	3.5
66	MP1C	Mx	0.005	3.5
67	MP2A	X	0	3.5
68	MP2A	Z	18.245	3.5
69	MP2A	Mx	0	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
70	MP2B	X	0	3.5
71	MP2B	Z	15.134	3.5
72	MP2B	Mx	0.006	3.5
73	MP2C	X	0	3.5
74	MP2C	Z	14.269	3.5
75	MP2C	Mx	-0.006	3.5
76	MP3A	X	0	3.5
77	MP3A	Z	18.245	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	3.5
80	MP3B	Z	13.952	3.5
81	MP3B	Mx	0.005	3.5
82	MP3C	X	0	3.5
83	MP3C	Z	12.758	3.5
84	MP3C	Mx	-0.006	3.5
85	M104	X	0	1.5
86	M104	Z	28.229	1.5
87	M104	Mx	0	1.5
88	MP2A	X	0	0.5
89	MP2A	Z	35.377	0.5
90	MP2A	Mx	0.021	0.5
91	MP2A	X	0	5.5
92	MP2A	Z	35.377	5.5
93	MP2A	Mx	0.021	5.5
94	MP2B	X	0	0.5
95	MP2B	Z	29.221	0.5
96	MP2B	Mx	-0.022	0.5
97	MP2B	X	0	5.5
98	MP2B	Z	29.221	5.5
99	MP2B	Mx	-0.022	5.5
100	MP2C	X	0	0.5
101	MP2C	Z	27.51	0.5
102	MP2C	Mx	0.004	0.5
103	MP2C	X	0	5.5
104	MP2C	Z	27.51	5.5
105	MP2C	Mx	0.004	5.5
106	MP2A	X	0	0.5
107	MP2A	Z	35.377	0.5
108	MP2A	Mx	-0.021	0.5
109	MP2A	X	0	5.5
110	MP2A	Z	35.377	5.5
111	MP2A	Mx	-0.021	5.5
112	MP2B	X	0	0.5
113	MP2B	Z	29.221	0.5
114	MP2B	Mx	-0.000236	0.5
115	MP2B	X	0	5.5
116	MP2B	Z	29.221	5.5
117	MP2B	Mx	-0.000236	5.5
118	MP2C	X	0	0.5
119	MP2C	Z	27.51	0.5
120	MP2C	Mx	0.02	0.5
121	MP2C	X	0	5.5
122	MP2C	Z	27.51	5.5
123	MP2C	Mx	0.02	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-1.454	4.5
2	MP2A	Z	2.518	4.5
3	MP2A	Mx	-0.000615	4.5
4	MP2A	X	-1.454	5.5
5	MP2A	Z	2.518	5.5
6	MP2A	Mx	-0.000615	5.5
7	MP2A	X	-1.454	4.5
8	MP2A	Z	2.518	4.5
9	MP2A	Mx	-0.002	4.5
10	MP2A	X	-1.454	5.5
11	MP2A	Z	2.518	5.5
12	MP2A	Mx	-0.002	5.5
13	MP2B	X	-1.454	4.5
14	MP2B	Z	2.518	4.5
15	MP2B	Mx	-0.000615	4.5
16	MP2B	X	-1.454	5.5
17	MP2B	Z	2.518	5.5
18	MP2B	Mx	-0.000615	5.5
19	MP2B	X	-1.454	4.5
20	MP2B	Z	2.518	4.5
21	MP2B	Mx	-0.002	4.5
22	MP2B	X	-1.454	5.5
23	MP2B	Z	2.518	5.5
24	MP2B	Mx	-0.002	5.5
25	MP3B	X	-7.784	1
26	MP3B	Z	13.482	1
27	MP3B	Mx	-0.008	1
28	MP4A	X	-16.059	1
29	MP4A	Z	27.814	1
30	MP4A	Mx	-0.003	1
31	MP4B	X	-16.059	1
32	MP4B	Z	27.814	1
33	MP4B	Mx	0.003	1
34	MP4C	X	-7.784	1
35	MP4C	Z	13.482	1
36	MP4C	Mx	0.008	1
37	OVP2	X	-14.569	1.5
38	OVP2	Z	25.235	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-4.083	4.5
41	MP1A	Z	7.073	4.5
42	MP1A	Mx	0.002	4.5
43	MP1B	X	-1.764	4.5
44	MP1B	Z	3.056	4.5
45	MP1B	Mx	-0.002	4.5
46	MP1C	X	-4.083	4.5
47	MP1C	Z	7.073	4.5
48	MP1C	Mx	0.002	4.5
49	MP1A	X	-9.063	1.5
50	MP1A	Z	15.698	1.5
51	MP1A	Mx	0.005	1.5
52	MP1A	X	-9.063	3.5
53	MP1A	Z	15.698	3.5
54	MP1A	Mx	0.005	3.5
55	MP1B	X	-4.855	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1B	Z	8.409	1.5
57	MP1B	Mx	-0.005	1.5
58	MP1B	X	-4.855	3.5
59	MP1B	Z	8.409	3.5
60	MP1B	Mx	-0.005	3.5
61	MP1C	X	-9.063	1.5
62	MP1C	Z	15.698	1.5
63	MP1C	Mx	0.005	1.5
64	MP1C	X	-9.063	3.5
65	MP1C	Z	15.698	3.5
66	MP1C	Mx	0.005	3.5
67	MP2A	X	-8.46	3.5
68	MP2A	Z	14.653	3.5
69	MP2A	Mx	-0.004	3.5
70	MP2B	X	-6.552	3.5
71	MP2B	Z	11.348	3.5
72	MP2B	Mx	0.006	3.5
73	MP2C	X	-8.46	3.5
74	MP2C	Z	14.653	3.5
75	MP2C	Mx	-0.004	3.5
76	MP3A	X	-8.208	3.5
77	MP3A	Z	14.217	3.5
78	MP3A	Mx	-0.004	3.5
79	MP3B	X	-5.575	3.5
80	MP3B	Z	9.656	3.5
81	MP3B	Mx	0.005	3.5
82	MP3C	X	-8.208	3.5
83	MP3C	Z	14.217	3.5
84	MP3C	Mx	-0.004	3.5
85	M104	X	-12.123	1.5
86	M104	Z	20.998	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-16.377	0.5
89	MP2A	Z	28.366	0.5
90	MP2A	Mx	0.025	0.5
91	MP2A	X	-16.377	5.5
92	MP2A	Z	28.366	5.5
93	MP2A	Mx	0.025	5.5
94	MP2B	X	-12.602	0.5
95	MP2B	Z	21.827	0.5
96	MP2B	Mx	-0.015	0.5
97	MP2B	X	-12.602	5.5
98	MP2B	Z	21.827	5.5
99	MP2B	Mx	-0.015	5.5
100	MP2C	X	-16.377	0.5
101	MP2C	Z	28.366	0.5
102	MP2C	Mx	-0.008	0.5
103	MP2C	X	-16.377	5.5
104	MP2C	Z	28.366	5.5
105	MP2C	Mx	-0.008	5.5
106	MP2A	X	-16.377	0.5
107	MP2A	Z	28.366	0.5
108	MP2A	Mx	-0.008	0.5
109	MP2A	X	-16.377	5.5
110	MP2A	Z	28.366	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP2A	Mx	-0.008	5.5
112	MP2B	X	-12.602	0.5
113	MP2B	Z	21.827	0.5
114	MP2B	Mx	-0.01	0.5
115	MP2B	X	-12.602	5.5
116	MP2B	Z	21.827	5.5
117	MP2B	Mx	-0.01	5.5
118	MP2C	X	-16.377	0.5
119	MP2C	Z	28.366	0.5
120	MP2C	Mx	0.025	0.5
121	MP2C	X	-16.377	5.5
122	MP2C	Z	28.366	5.5
123	MP2C	Mx	0.025	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-3.829	4.5
2	MP2A	Z	2.21	4.5
3	MP2A	Mx	-0.003	4.5
4	MP2A	X	-3.829	5.5
5	MP2A	Z	2.21	5.5
6	MP2A	Mx	-0.003	5.5
7	MP2A	X	-3.829	4.5
8	MP2A	Z	2.21	4.5
9	MP2A	Mx	-0.005	4.5
10	MP2A	X	-3.829	5.5
11	MP2A	Z	2.21	5.5
12	MP2A	Mx	-0.005	5.5
13	MP2B	X	-3.829	4.5
14	MP2B	Z	2.21	4.5
15	MP2B	Mx	-0.003	4.5
16	MP2B	X	-3.829	5.5
17	MP2B	Z	2.21	5.5
18	MP2B	Mx	-0.003	5.5
19	MP2B	X	-3.829	4.5
20	MP2B	Z	2.21	4.5
21	MP2B	Mx	-0.005	4.5
22	MP2B	X	-3.829	5.5
23	MP2B	Z	2.21	5.5
24	MP2B	Mx	-0.005	5.5
25	MP3B	X	-14.807	1
26	MP3B	Z	8.549	1
27	MP3B	Mx	-0.008	1
28	MP4A	X	-26.49	1
29	MP4A	Z	15.294	1
30	MP4A	Mx	0.005	1
31	MP4B	X	-26.49	1
32	MP4B	Z	15.294	1
33	MP4B	Mx	-0.005	1
34	MP4C	X	-14.807	1
35	MP4C	Z	8.549	1
36	MP4C	Mx	0.008	1
37	OVP2	X	-25.81	1.5
38	OVP2	Z	14.902	1.5
39	OVP2	Mx	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP1A	X	-4.283	4.5
41	MP1A	Z	2.473	4.5
42	MP1A	Mx	0.002	4.5
43	MP1B	X	-3.54	4.5
44	MP1B	Z	2.044	4.5
45	MP1B	Mx	-0.002	4.5
46	MP1C	X	-8.468	4.5
47	MP1C	Z	4.889	4.5
48	MP1C	Mx	0	4.5
49	MP1A	X	-10.635	1.5
50	MP1A	Z	6.14	1.5
51	MP1A	Mx	0.005	1.5
52	MP1A	X	-10.635	3.5
53	MP1A	Z	6.14	3.5
54	MP1A	Mx	0.005	3.5
55	MP1B	X	-9.288	1.5
56	MP1B	Z	5.363	1.5
57	MP1B	Mx	-0.005	1.5
58	MP1B	X	-9.288	3.5
59	MP1B	Z	5.363	3.5
60	MP1B	Mx	-0.005	3.5
61	MP1C	X	-18.229	1.5
62	MP1C	Z	10.525	1.5
63	MP1C	Mx	0	1.5
64	MP1C	X	-18.229	3.5
65	MP1C	Z	10.525	3.5
66	MP1C	Mx	0	3.5
67	MP2A	X	-12.357	3.5
68	MP2A	Z	7.135	3.5
69	MP2A	Mx	-0.006	3.5
70	MP2B	X	-11.747	3.5
71	MP2B	Z	6.782	3.5
72	MP2B	Mx	0.006	3.5
73	MP2C	X	-15.801	3.5
74	MP2C	Z	9.122	3.5
75	MP2C	Mx	0	3.5
76	MP3A	X	-11.049	3.5
77	MP3A	Z	6.379	3.5
78	MP3A	Mx	-0.006	3.5
79	MP3B	X	-10.206	3.5
80	MP3B	Z	5.893	3.5
81	MP3B	Mx	0.006	3.5
82	MP3C	X	-15.801	3.5
83	MP3C	Z	9.122	3.5
84	MP3C	Mx	0	3.5
85	M104	X	-21.78	1.5
86	M104	Z	12.575	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-23.824	0.5
89	MP2A	Z	13.755	0.5
90	MP2A	Mx	0.02	0.5
91	MP2A	X	-23.824	5.5
92	MP2A	Z	13.755	5.5
93	MP2A	Mx	0.02	5.5
94	MP2B	X	-22.616	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP2B	Z	13.057	0.5
96	MP2B	Mx	-0.007	0.5
97	MP2B	X	-22.616	5.5
98	MP2B	Z	13.057	5.5
99	MP2B	Mx	-0.007	5.5
100	MP2C	X	-30.638	0.5
101	MP2C	Z	17.689	0.5
102	MP2C	Mx	-0.021	0.5
103	MP2C	X	-30.638	5.5
104	MP2C	Z	17.689	5.5
105	MP2C	Mx	-0.021	5.5
106	MP2A	X	-23.824	0.5
107	MP2A	Z	13.755	0.5
108	MP2A	Mx	0.004	0.5
109	MP2A	X	-23.824	5.5
110	MP2A	Z	13.755	5.5
111	MP2A	Mx	0.004	5.5
112	MP2B	X	-22.616	0.5
113	MP2B	Z	13.057	0.5
114	MP2B	Mx	-0.017	0.5
115	MP2B	X	-22.616	5.5
116	MP2B	Z	13.057	5.5
117	MP2B	Mx	-0.017	5.5
118	MP2C	X	-30.638	0.5
119	MP2C	Z	17.689	0.5
120	MP2C	Mx	0.021	0.5
121	MP2C	X	-30.638	5.5
122	MP2C	Z	17.689	5.5
123	MP2C	Mx	0.021	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-5.178	4.5
2	MP2A	Z	0	4.5
3	MP2A	Mx	-0.005	4.5
4	MP2A	X	-5.178	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-0.005	5.5
7	MP2A	X	-5.178	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	-0.005	4.5
10	MP2A	X	-5.178	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	-0.005	5.5
13	MP2B	X	-5.178	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	-0.005	4.5
16	MP2B	X	-5.178	5.5
17	MP2B	Z	0	5.5
18	MP2B	Mx	-0.005	5.5
19	MP2B	X	-5.178	4.5
20	MP2B	Z	0	4.5
21	MP2B	Mx	-0.005	4.5
22	MP2B	X	-5.178	5.5
23	MP2B	Z	0	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP2B	Mx	-0.005	5.5
25	MP3B	X	-25.372	1
26	MP3B	Z	0	1
27	MP3B	Mx	-0.008	1
28	MP4A	X	-22.314	1
29	MP4A	Z	0	1
30	MP4A	Mx	0.009	1
31	MP4B	X	-22.314	1
32	MP4B	Z	0	1
33	MP4B	Mx	-0.009	1
34	MP4C	X	-25.372	1
35	MP4C	Z	0	1
36	MP4C	Mx	0.008	1
37	OVP2	X	-33.4	1.5
38	OVP2	Z	0	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-3.334	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	0.002	4.5
43	MP1B	X	-7.115	4.5
44	MP1B	Z	0	4.5
45	MP1B	Mx	-0.002	4.5
46	MP1C	X	-8.167	4.5
47	MP1C	Z	0	4.5
48	MP1C	Mx	-0.002	4.5
49	MP1A	X	-9.357	1.5
50	MP1A	Z	0	1.5
51	MP1A	Mx	0.005	1.5
52	MP1A	X	-9.357	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	0.005	3.5
55	MP1B	X	-16.218	1.5
56	MP1B	Z	0	1.5
57	MP1B	Mx	-0.005	1.5
58	MP1B	X	-16.218	3.5
59	MP1B	Z	0	3.5
60	MP1B	Mx	-0.005	3.5
61	MP1C	X	-18.126	1.5
62	MP1C	Z	0	1.5
63	MP1C	Mx	-0.005	1.5
64	MP1C	X	-18.126	3.5
65	MP1C	Z	0	3.5
66	MP1C	Mx	-0.005	3.5
67	MP2A	X	-12.944	3.5
68	MP2A	Z	0	3.5
69	MP2A	Mx	-0.006	3.5
70	MP2B	X	-16.055	3.5
71	MP2B	Z	0	3.5
72	MP2B	Mx	0.005	3.5
73	MP2C	X	-16.92	3.5
74	MP2C	Z	0	3.5
75	MP2C	Mx	0.004	3.5
76	MP3A	X	-10.929	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	-0.005	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP3B	X	-15.222	3.5
80	MP3B	Z	0	3.5
81	MP3B	Mx	0.005	3.5
82	MP3C	X	-16.416	3.5
83	MP3C	Z	0	3.5
84	MP3C	Mx	0.004	3.5
85	M104	X	-30.034	1.5
86	M104	Z	0	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-24.887	0.5
89	MP2A	Z	0	0.5
90	MP2A	Mx	0.012	0.5
91	MP2A	X	-24.887	5.5
92	MP2A	Z	0	5.5
93	MP2A	Mx	0.012	5.5
94	MP2B	X	-31.043	0.5
95	MP2B	Z	0	0.5
96	MP2B	Mx	0.004	0.5
97	MP2B	X	-31.043	5.5
98	MP2B	Z	0	5.5
99	MP2B	Mx	0.004	5.5
100	MP2C	X	-32.755	0.5
101	MP2C	Z	0	0.5
102	MP2C	Mx	-0.025	0.5
103	MP2C	X	-32.755	5.5
104	MP2C	Z	0	5.5
105	MP2C	Mx	-0.025	5.5
106	MP2A	X	-24.887	0.5
107	MP2A	Z	0	0.5
108	MP2A	Mx	0.012	0.5
109	MP2A	X	-24.887	5.5
110	MP2A	Z	0	5.5
111	MP2A	Mx	0.012	5.5
112	MP2B	X	-31.043	0.5
113	MP2B	Z	0	0.5
114	MP2B	Mx	-0.024	0.5
115	MP2B	X	-31.043	5.5
116	MP2B	Z	0	5.5
117	MP2B	Mx	-0.024	5.5
118	MP2C	X	-32.755	0.5
119	MP2C	Z	0	0.5
120	MP2C	Mx	0.008	0.5
121	MP2C	X	-32.755	5.5
122	MP2C	Z	0	5.5
123	MP2C	Mx	0.008	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-3.829	4.5
2	MP2A	Z	-2.21	4.5
3	MP2A	Mx	-0.005	4.5
4	MP2A	X	-3.829	5.5
5	MP2A	Z	-2.21	5.5
6	MP2A	Mx	-0.005	5.5
7	MP2A	X	-3.829	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
8	MP2A	Z	-2.21	4.5
9	MP2A	Mx	-0.003	4.5
10	MP2A	X	-3.829	5.5
11	MP2A	Z	-2.21	5.5
12	MP2A	Mx	-0.003	5.5
13	MP2B	X	-3.829	4.5
14	MP2B	Z	-2.21	4.5
15	MP2B	Mx	-0.005	4.5
16	MP2B	X	-3.829	5.5
17	MP2B	Z	-2.21	5.5
18	MP2B	Mx	-0.005	5.5
19	MP2B	X	-3.829	4.5
20	MP2B	Z	-2.21	4.5
21	MP2B	Mx	-0.003	4.5
22	MP2B	X	-3.829	5.5
23	MP2B	Z	-2.21	5.5
24	MP2B	Mx	-0.003	5.5
25	MP3B	X	-27.814	1
26	MP3B	Z	-16.059	1
27	MP3B	Mx	-0.003	1
28	MP4A	X	-13.482	1
29	MP4A	Z	-7.784	1
30	MP4A	Mx	0.008	1
31	MP4B	X	-13.482	1
32	MP4B	Z	-7.784	1
33	MP4B	Mx	-0.008	1
34	MP4C	X	-27.814	1
35	MP4C	Z	-16.059	1
36	MP4C	Mx	0.003	1
37	OVP2	X	-31.464	1.5
38	OVP2	Z	-18.166	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-4.283	4.5
41	MP1A	Z	-2.473	4.5
42	MP1A	Mx	0.002	4.5
43	MP1B	X	-8.299	4.5
44	MP1B	Z	-4.792	4.5
45	MP1B	Mx	-0.000832	4.5
46	MP1C	X	-4.283	4.5
47	MP1C	Z	-2.473	4.5
48	MP1C	Mx	-0.002	4.5
49	MP1A	X	-10.635	1.5
50	MP1A	Z	-6.14	1.5
51	MP1A	Mx	0.005	1.5
52	MP1A	X	-10.635	3.5
53	MP1A	Z	-6.14	3.5
54	MP1A	Mx	0.005	3.5
55	MP1B	X	-17.924	1.5
56	MP1B	Z	-10.348	1.5
57	MP1B	Mx	-0.002	1.5
58	MP1B	X	-17.924	3.5
59	MP1B	Z	-10.348	3.5
60	MP1B	Mx	-0.002	3.5
61	MP1C	X	-10.635	1.5
62	MP1C	Z	-6.14	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
63	MP1C	Mx	-0.005	1.5
64	MP1C	X	-10.635	3.5
65	MP1C	Z	-6.14	3.5
66	MP1C	Mx	-0.005	3.5
67	MP2A	X	-12.357	3.5
68	MP2A	Z	-7.135	3.5
69	MP2A	Mx	-0.006	3.5
70	MP2B	X	-15.662	3.5
71	MP2B	Z	-9.043	3.5
72	MP2B	Mx	0.002	3.5
73	MP2C	X	-12.357	3.5
74	MP2C	Z	-7.135	3.5
75	MP2C	Mx	0.006	3.5
76	MP3A	X	-11.049	3.5
77	MP3A	Z	-6.379	3.5
78	MP3A	Mx	-0.006	3.5
79	MP3B	X	-15.61	3.5
80	MP3B	Z	-9.012	3.5
81	MP3B	Mx	0.002	3.5
82	MP3C	X	-11.049	3.5
83	MP3C	Z	-6.379	3.5
84	MP3C	Mx	0.006	3.5
85	M104	X	-29.459	1.5
86	M104	Z	-17.008	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-23.824	0.5
89	MP2A	Z	-13.755	0.5
90	MP2A	Mx	0.004	0.5
91	MP2A	X	-23.824	5.5
92	MP2A	Z	-13.755	5.5
93	MP2A	Mx	0.004	5.5
94	MP2B	X	-30.364	0.5
95	MP2B	Z	-17.53	0.5
96	MP2B	Mx	0.017	0.5
97	MP2B	X	-30.364	5.5
98	MP2B	Z	-17.53	5.5
99	MP2B	Mx	0.017	5.5
100	MP2C	X	-23.824	0.5
101	MP2C	Z	-13.755	0.5
102	MP2C	Mx	-0.02	0.5
103	MP2C	X	-23.824	5.5
104	MP2C	Z	-13.755	5.5
105	MP2C	Mx	-0.02	5.5
106	MP2A	X	-23.824	0.5
107	MP2A	Z	-13.755	0.5
108	MP2A	Mx	0.02	0.5
109	MP2A	X	-23.824	5.5
110	MP2A	Z	-13.755	5.5
111	MP2A	Mx	0.02	5.5
112	MP2B	X	-30.364	0.5
113	MP2B	Z	-17.53	0.5
114	MP2B	Mx	-0.023	0.5
115	MP2B	X	-30.364	5.5
116	MP2B	Z	-17.53	5.5
117	MP2B	Mx	-0.023	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
118	MP2C	X	-23.824	0.5
119	MP2C	Z	-13.755	0.5
120	MP2C	Mx	-0.004	0.5
121	MP2C	X	-23.824	5.5
122	MP2C	Z	-13.755	5.5
123	MP2C	Mx	-0.004	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-1.454	4.5
2	MP2A	Z	-2.518	4.5
3	MP2A	Mx	-0.002	4.5
4	MP2A	X	-1.454	5.5
5	MP2A	Z	-2.518	5.5
6	MP2A	Mx	-0.002	5.5
7	MP2A	X	-1.454	4.5
8	MP2A	Z	-2.518	4.5
9	MP2A	Mx	-0.000615	4.5
10	MP2A	X	-1.454	5.5
11	MP2A	Z	-2.518	5.5
12	MP2A	Mx	-0.000615	5.5
13	MP2B	X	-1.454	4.5
14	MP2B	Z	-2.518	4.5
15	MP2B	Mx	-0.002	4.5
16	MP2B	X	-1.454	5.5
17	MP2B	Z	-2.518	5.5
18	MP2B	Mx	-0.002	5.5
19	MP2B	X	-1.454	4.5
20	MP2B	Z	-2.518	4.5
21	MP2B	Mx	-0.000615	4.5
22	MP2B	X	-1.454	5.5
23	MP2B	Z	-2.518	5.5
24	MP2B	Mx	-0.000615	5.5
25	MP3B	X	-15.294	1
26	MP3B	Z	-26.49	1
27	MP3B	Mx	0.005	1
28	MP4A	X	-8.549	1
29	MP4A	Z	-14.807	1
30	MP4A	Mx	0.008	1
31	MP4B	X	-8.549	1
32	MP4B	Z	-14.807	1
33	MP4B	Mx	-0.008	1
34	MP4C	X	-15.294	1
35	MP4C	Z	-26.49	1
36	MP4C	Mx	-0.005	1
37	OVP2	X	-17.834	1.5
38	OVP2	Z	-30.889	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-4.083	4.5
41	MP1A	Z	-7.073	4.5
42	MP1A	Mx	0.002	4.5
43	MP1B	X	-4.512	4.5
44	MP1B	Z	-7.815	4.5
45	MP1B	Mx	0.002	4.5
46	MP1C	X	-1.667	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
47	MP1C	Z	-2.888	4.5
48	MP1C	Mx	-0.002	4.5
49	MP1A	X	-9.063	1.5
50	MP1A	Z	-15.698	1.5
51	MP1A	Mx	0.005	1.5
52	MP1A	X	-9.063	3.5
53	MP1A	Z	-15.698	3.5
54	MP1A	Mx	0.005	3.5
55	MP1B	X	-9.841	1.5
56	MP1B	Z	-17.045	1.5
57	MP1B	Mx	0.003	1.5
58	MP1B	X	-9.841	3.5
59	MP1B	Z	-17.045	3.5
60	MP1B	Mx	0.003	3.5
61	MP1C	X	-4.679	1.5
62	MP1C	Z	-8.104	1.5
63	MP1C	Mx	-0.005	1.5
64	MP1C	X	-4.679	3.5
65	MP1C	Z	-8.104	3.5
66	MP1C	Mx	-0.005	3.5
67	MP2A	X	-8.46	3.5
68	MP2A	Z	-14.653	3.5
69	MP2A	Mx	-0.004	3.5
70	MP2B	X	-8.812	3.5
71	MP2B	Z	-15.264	3.5
72	MP2B	Mx	-0.003	3.5
73	MP2C	X	-6.472	3.5
74	MP2C	Z	-11.21	3.5
75	MP2C	Mx	0.006	3.5
76	MP3A	X	-8.208	3.5
77	MP3A	Z	-14.217	3.5
78	MP3A	Mx	-0.004	3.5
79	MP3B	X	-8.695	3.5
80	MP3B	Z	-15.059	3.5
81	MP3B	Mx	-0.003	3.5
82	MP3C	X	-5.465	3.5
83	MP3C	Z	-9.465	3.5
84	MP3C	Mx	0.005	3.5
85	M104	X	-16.557	1.5
86	M104	Z	-28.677	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-16.377	0.5
89	MP2A	Z	-28.366	0.5
90	MP2A	Mx	-0.008	0.5
91	MP2A	X	-16.377	5.5
92	MP2A	Z	-28.366	5.5
93	MP2A	Mx	-0.008	5.5
94	MP2B	X	-17.075	0.5
95	MP2B	Z	-29.575	0.5
96	MP2B	Mx	0.025	0.5
97	MP2B	X	-17.075	5.5
98	MP2B	Z	-29.575	5.5
99	MP2B	Mx	0.025	5.5
100	MP2C	X	-12.444	0.5
101	MP2C	Z	-21.553	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
102	MP2C	Mx	-0.012	0.5
103	MP2C	X	-12.444	5.5
104	MP2C	Z	-21.553	5.5
105	MP2C	Mx	-0.012	5.5
106	MP2A	X	-16.377	0.5
107	MP2A	Z	-28.366	0.5
108	MP2A	Mx	0.025	0.5
109	MP2A	X	-16.377	5.5
110	MP2A	Z	-28.366	5.5
111	MP2A	Mx	0.025	5.5
112	MP2B	X	-17.075	0.5
113	MP2B	Z	-29.575	0.5
114	MP2B	Mx	-0.013	0.5
115	MP2B	X	-17.075	5.5
116	MP2B	Z	-29.575	5.5
117	MP2B	Mx	-0.013	5.5
118	MP2C	X	-12.444	0.5
119	MP2C	Z	-21.553	0.5
120	MP2C	Mx	-0.012	0.5
121	MP2C	X	-12.444	5.5
122	MP2C	Z	-21.553	5.5
123	MP2C	Mx	-0.012	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	4.5
2	MP2A	Z	-1.291	4.5
3	MP2A	Mx	-0.00043	4.5
4	MP2A	X	0	5.5
5	MP2A	Z	-1.291	5.5
6	MP2A	Mx	-0.00043	5.5
7	MP2A	X	0	4.5
8	MP2A	Z	-1.291	4.5
9	MP2A	Mx	0.00043	4.5
10	MP2A	X	0	5.5
11	MP2A	Z	-1.291	5.5
12	MP2A	Mx	0.00043	5.5
13	MP2B	X	0	4.5
14	MP2B	Z	-1.291	4.5
15	MP2B	Mx	-0.00043	4.5
16	MP2B	X	0	5.5
17	MP2B	Z	-1.291	5.5
18	MP2B	Mx	-0.00043	5.5
19	MP2B	X	0	4.5
20	MP2B	Z	-1.291	4.5
21	MP2B	Mx	0.00043	4.5
22	MP2B	X	0	5.5
23	MP2B	Z	-1.291	5.5
24	MP2B	Mx	0.00043	5.5
25	MP3B	X	0	1
26	MP3B	Z	-6.313	1
27	MP3B	Mx	0.002	1
28	MP4A	X	0	1
29	MP4A	Z	-7.309	1
30	MP4A	Mx	0.002	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP4B	X	0	1
32	MP4B	Z	-7.309	1
33	MP4B	Mx	-0.002	1
34	MP4C	X	0	1
35	MP4C	Z	-6.313	1
36	MP4C	Mx	-0.002	1
37	OVP2	X	0	1.5
38	OVP2	Z	-7.324	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0	4.5
41	MP1A	Z	-2.396	4.5
42	MP1A	Mx	0	4.5
43	MP1B	X	0	4.5
44	MP1B	Z	-1.266	4.5
45	MP1B	Mx	0.000485	4.5
46	MP1C	X	0	4.5
47	MP1C	Z	-0.952	4.5
48	MP1C	Mx	-0.000412	4.5
49	MP1A	X	0	1.5
50	MP1A	Z	-5.27	1.5
51	MP1A	Mx	0	1.5
52	MP1A	X	0	3.5
53	MP1A	Z	-5.27	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	1.5
56	MP1B	Z	-3.242	1.5
57	MP1B	Mx	0.001	1.5
58	MP1B	X	0	3.5
59	MP1B	Z	-3.242	3.5
60	MP1B	Mx	0.001	3.5
61	MP1C	X	0	1.5
62	MP1C	Z	-2.679	1.5
63	MP1C	Mx	-0.001	1.5
64	MP1C	X	0	3.5
65	MP1C	Z	-2.679	3.5
66	MP1C	Mx	-0.001	3.5
67	MP2A	X	0	3.5
68	MP2A	Z	-4.168	3.5
69	MP2A	Mx	0	3.5
70	MP2B	X	0	3.5
71	MP2B	Z	-3.363	3.5
72	MP2B	Mx	-0.001	3.5
73	MP2C	X	0	3.5
74	MP2C	Z	-3.139	3.5
75	MP2C	Mx	0.001	3.5
76	MP3A	X	0	3.5
77	MP3A	Z	-4.168	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	3.5
80	MP3B	Z	-3.063	3.5
81	MP3B	Mx	-0.001	3.5
82	MP3C	X	0	3.5
83	MP3C	Z	-2.756	3.5
84	MP3C	Mx	0.001	3.5
85	M104	X	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	M104	Z	-8.169	1.5
87	M104	Mx	0	1.5
88	MP2A	X	0	0.5
89	MP2A	Z	-7.418	0.5
90	MP2A	Mx	-0.004	0.5
91	MP2A	X	0	5.5
92	MP2A	Z	-7.418	5.5
93	MP2A	Mx	-0.004	5.5
94	MP2B	X	0	0.5
95	MP2B	Z	-4.937	0.5
96	MP2B	Mx	0.004	0.5
97	MP2B	X	0	5.5
98	MP2B	Z	-4.937	5.5
99	MP2B	Mx	0.004	5.5
100	MP2C	X	0	0.5
101	MP2C	Z	-4.248	0.5
102	MP2C	Mx	-0.0006	0.5
103	MP2C	X	0	5.5
104	MP2C	Z	-4.248	5.5
105	MP2C	Mx	-0.0006	5.5
106	MP2A	X	0	0.5
107	MP2A	Z	-7.418	0.5
108	MP2A	Mx	0.004	0.5
109	MP2A	X	0	5.5
110	MP2A	Z	-7.418	5.5
111	MP2A	Mx	0.004	5.5
112	MP2B	X	0	0.5
113	MP2B	Z	-4.937	0.5
114	MP2B	Mx	4e-5	0.5
115	MP2B	X	0	5.5
116	MP2B	Z	-4.937	5.5
117	MP2B	Mx	4e-5	5.5
118	MP2C	X	0	0.5
119	MP2C	Z	-4.248	0.5
120	MP2C	Mx	-0.003	0.5
121	MP2C	X	0	5.5
122	MP2C	Z	-4.248	5.5
123	MP2C	Mx	-0.003	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0.646	4.5
2	MP2A	Z	-1.119	4.5
3	MP2A	Mx	0.000273	4.5
4	MP2A	X	0.646	5.5
5	MP2A	Z	-1.119	5.5
6	MP2A	Mx	0.000273	5.5
7	MP2A	X	0.646	4.5
8	MP2A	Z	-1.119	4.5
9	MP2A	Mx	0.001	4.5
10	MP2A	X	0.646	5.5
11	MP2A	Z	-1.119	5.5
12	MP2A	Mx	0.001	5.5
13	MP2B	X	0.646	4.5
14	MP2B	Z	-1.119	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
15	MP2B	Mx	0.000273	4.5
16	MP2B	X	0.646	5.5
17	MP2B	Z	-1.119	5.5
18	MP2B	Mx	0.000273	5.5
19	MP2B	X	0.646	4.5
20	MP2B	Z	-1.119	4.5
21	MP2B	Mx	0.001	4.5
22	MP2B	X	0.646	5.5
23	MP2B	Z	-1.119	5.5
24	MP2B	Mx	0.001	5.5
25	MP3B	X	2.058	1
26	MP3B	Z	-3.564	1
27	MP3B	Mx	0.002	1
28	MP4A	X	4.753	1
29	MP4A	Z	-8.233	1
30	MP4A	Mx	0.000826	1
31	MP4B	X	4.753	1
32	MP4B	Z	-8.233	1
33	MP4B	Mx	-0.000826	1
34	MP4C	X	2.058	1
35	MP4C	Z	-3.564	1
36	MP4C	Mx	-0.002	1
37	OVP2	X	3.271	1.5
38	OVP2	Z	-5.665	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0.957	4.5
41	MP1A	Z	-1.658	4.5
42	MP1A	Mx	-0.000478	4.5
43	MP1B	X	0.264	4.5
44	MP1B	Z	-0.457	4.5
45	MP1B	Mx	0.00026	4.5
46	MP1C	X	0.957	4.5
47	MP1C	Z	-1.658	4.5
48	MP1C	Mx	-0.000479	4.5
49	MP1A	X	2.203	1.5
50	MP1A	Z	-3.816	1.5
51	MP1A	Mx	-0.001	1.5
52	MP1A	X	2.203	3.5
53	MP1A	Z	-3.816	3.5
54	MP1A	Mx	-0.001	3.5
55	MP1B	X	0.96	1.5
56	MP1B	Z	-1.662	1.5
57	MP1B	Mx	0.000945	1.5
58	MP1B	X	0.96	3.5
59	MP1B	Z	-1.662	3.5
60	MP1B	Mx	0.000945	3.5
61	MP1C	X	2.203	1.5
62	MP1C	Z	-3.816	1.5
63	MP1C	Mx	-0.001	1.5
64	MP1C	X	2.203	3.5
65	MP1C	Z	-3.816	3.5
66	MP1C	Mx	-0.001	3.5
67	MP2A	X	1.912	3.5
68	MP2A	Z	-3.312	3.5
69	MP2A	Mx	0.000956	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
70	MP2B	X	1.419	3.5
71	MP2B	Z	-2.457	3.5
72	MP2B	Mx	-0.001	3.5
73	MP2C	X	1.912	3.5
74	MP2C	Z	-3.312	3.5
75	MP2C	Mx	0.000956	3.5
76	MP3A	X	1.849	3.5
77	MP3A	Z	-3.202	3.5
78	MP3A	Mx	0.000924	3.5
79	MP3B	X	1.171	3.5
80	MP3B	Z	-2.028	3.5
81	MP3B	Mx	-0.001	3.5
82	MP3C	X	1.849	3.5
83	MP3C	Z	-3.202	3.5
84	MP3C	Mx	0.000924	3.5
85	M104	X	3.425	1.5
86	M104	Z	-5.932	1.5
87	M104	Mx	0	1.5
88	MP2A	X	3.181	0.5
89	MP2A	Z	-5.509	0.5
90	MP2A	Mx	-0.005	0.5
91	MP2A	X	3.181	5.5
92	MP2A	Z	-5.509	5.5
93	MP2A	Mx	-0.005	5.5
94	MP2B	X	1.659	0.5
95	MP2B	Z	-2.874	0.5
96	MP2B	Mx	0.002	0.5
97	MP2B	X	1.659	5.5
98	MP2B	Z	-2.874	5.5
99	MP2B	Mx	0.002	5.5
100	MP2C	X	3.181	0.5
101	MP2C	Z	-5.509	0.5
102	MP2C	Mx	0.002	0.5
103	MP2C	X	3.181	5.5
104	MP2C	Z	-5.509	5.5
105	MP2C	Mx	0.002	5.5
106	MP2A	X	3.181	0.5
107	MP2A	Z	-5.509	0.5
108	MP2A	Mx	0.002	0.5
109	MP2A	X	3.181	5.5
110	MP2A	Z	-5.509	5.5
111	MP2A	Mx	0.002	5.5
112	MP2B	X	1.659	0.5
113	MP2B	Z	-2.874	0.5
114	MP2B	Mx	0.001	0.5
115	MP2B	X	1.659	5.5
116	MP2B	Z	-2.874	5.5
117	MP2B	Mx	0.001	5.5
118	MP2C	X	3.181	0.5
119	MP2C	Z	-5.509	0.5
120	MP2C	Mx	-0.005	0.5
121	MP2C	X	3.181	5.5
122	MP2C	Z	-5.509	5.5
123	MP2C	Mx	-0.005	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	1.12	4.5
2	MP2A	Z	-0.647	4.5
3	MP2A	Mx	0.000904	4.5
4	MP2A	X	1.12	5.5
5	MP2A	Z	-0.647	5.5
6	MP2A	Mx	0.000904	5.5
7	MP2A	X	1.12	4.5
8	MP2A	Z	-0.647	4.5
9	MP2A	Mx	0.001	4.5
10	MP2A	X	1.12	5.5
11	MP2A	Z	-0.647	5.5
12	MP2A	Mx	0.001	5.5
13	MP2B	X	1.12	4.5
14	MP2B	Z	-0.647	4.5
15	MP2B	Mx	0.000904	4.5
16	MP2B	X	1.12	5.5
17	MP2B	Z	-0.647	5.5
18	MP2B	Mx	0.000904	5.5
19	MP2B	X	1.12	4.5
20	MP2B	Z	-0.647	4.5
21	MP2B	Mx	0.001	4.5
22	MP2B	X	1.12	5.5
23	MP2B	Z	-0.647	5.5
24	MP2B	Mx	0.001	5.5
25	MP3B	X	3.996	1
26	MP3B	Z	-2.307	1
27	MP3B	Mx	0.002	1
28	MP4A	X	7.802	1
29	MP4A	Z	-4.504	1
30	MP4A	Mx	-0.002	1
31	MP4B	X	7.802	1
32	MP4B	Z	-4.504	1
33	MP4B	Mx	0.002	1
34	MP4C	X	3.996	1
35	MP4C	Z	-2.307	1
36	MP4C	Mx	-0.002	1
37	OVP2	X	5.819	1.5
38	OVP2	Z	-3.359	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0.824	4.5
41	MP1A	Z	-0.476	4.5
42	MP1A	Mx	-0.000412	4.5
43	MP1B	X	0.602	4.5
44	MP1B	Z	-0.348	4.5
45	MP1B	Mx	0.000327	4.5
46	MP1C	X	2.075	4.5
47	MP1C	Z	-1.198	4.5
48	MP1C	Mx	0	4.5
49	MP1A	X	2.32	1.5
50	MP1A	Z	-1.339	1.5
51	MP1A	Mx	-0.001	1.5
52	MP1A	X	2.32	3.5
53	MP1A	Z	-1.339	3.5
54	MP1A	Mx	-0.001	3.5
55	MP1B	X	1.922	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1B	Z	-1.11	1.5
57	MP1B	Mx	0.001	1.5
58	MP1B	X	1.922	3.5
59	MP1B	Z	-1.11	3.5
60	MP1B	Mx	0.001	3.5
61	MP1C	X	4.564	1.5
62	MP1C	Z	-2.635	1.5
63	MP1C	Mx	0	1.5
64	MP1C	X	4.564	3.5
65	MP1C	Z	-2.635	3.5
66	MP1C	Mx	0	3.5
67	MP2A	X	2.719	3.5
68	MP2A	Z	-1.57	3.5
69	MP2A	Mx	0.001	3.5
70	MP2B	X	2.561	3.5
71	MP2B	Z	-1.478	3.5
72	MP2B	Mx	-0.001	3.5
73	MP2C	X	3.609	3.5
74	MP2C	Z	-2.084	3.5
75	MP2C	Mx	0	3.5
76	MP3A	X	2.387	3.5
77	MP3A	Z	-1.378	3.5
78	MP3A	Mx	0.001	3.5
79	MP3B	X	2.17	3.5
80	MP3B	Z	-1.253	3.5
81	MP3B	Mx	-0.001	3.5
82	MP3C	X	3.609	3.5
83	MP3C	Z	-2.084	3.5
84	MP3C	Mx	0	3.5
85	M104	X	6.191	1.5
86	M104	Z	-3.574	1.5
87	M104	Mx	0	1.5
88	MP2A	X	3.678	0.5
89	MP2A	Z	-2.124	0.5
90	MP2A	Mx	-0.003	0.5
91	MP2A	X	3.678	5.5
92	MP2A	Z	-2.124	5.5
93	MP2A	Mx	-0.003	5.5
94	MP2B	X	3.191	0.5
95	MP2B	Z	-1.843	0.5
96	MP2B	Mx	0.000997	0.5
97	MP2B	X	3.191	5.5
98	MP2B	Z	-1.843	5.5
99	MP2B	Mx	0.000997	5.5
100	MP2C	X	6.424	0.5
101	MP2C	Z	-3.709	0.5
102	MP2C	Mx	0.004	0.5
103	MP2C	X	6.424	5.5
104	MP2C	Z	-3.709	5.5
105	MP2C	Mx	0.004	5.5
106	MP2A	X	3.678	0.5
107	MP2A	Z	-2.124	0.5
108	MP2A	Mx	-0.0006	0.5
109	MP2A	X	3.678	5.5
110	MP2A	Z	-2.124	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP2A	Mx	-0.0006	5.5
112	MP2B	X	3.191	0.5
113	MP2B	Z	-1.843	0.5
114	MP2B	Mx	0.002	0.5
115	MP2B	X	3.191	5.5
116	MP2B	Z	-1.843	5.5
117	MP2B	Mx	0.002	5.5
118	MP2C	X	6.424	0.5
119	MP2C	Z	-3.709	0.5
120	MP2C	Mx	-0.004	0.5
121	MP2C	X	6.424	5.5
122	MP2C	Z	-3.709	5.5
123	MP2C	Mx	-0.004	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	1.294	4.5
2	MP2A	Z	0	4.5
3	MP2A	Mx	0.001	4.5
4	MP2A	X	1.294	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	0.001	5.5
7	MP2A	X	1.294	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	0.001	4.5
10	MP2A	X	1.294	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	0.001	5.5
13	MP2B	X	1.294	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	0.001	4.5
16	MP2B	X	1.294	5.5
17	MP2B	Z	0	5.5
18	MP2B	Mx	0.001	5.5
19	MP2B	X	1.294	4.5
20	MP2B	Z	0	4.5
21	MP2B	Mx	0.001	4.5
22	MP2B	X	1.294	5.5
23	MP2B	Z	0	5.5
24	MP2B	Mx	0.001	5.5
25	MP3B	X	7.309	1
26	MP3B	Z	0	1
27	MP3B	Mx	0.002	1
28	MP4A	X	6.313	1
29	MP4A	Z	0	1
30	MP4A	Mx	-0.002	1
31	MP4B	X	6.313	1
32	MP4B	Z	0	1
33	MP4B	Mx	0.002	1
34	MP4C	X	7.309	1
35	MP4C	Z	0	1
36	MP4C	Mx	-0.002	1
37	OVP2	X	7.679	1.5
38	OVP2	Z	0	1.5
39	OVP2	Mx	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP1A	X	0.47	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	-0.000235	4.5
43	MP1B	X	1.6	4.5
44	MP1B	Z	0	4.5
45	MP1B	Mx	0.000514	4.5
46	MP1C	X	1.915	4.5
47	MP1C	Z	0	4.5
48	MP1C	Mx	0.000479	4.5
49	MP1A	X	1.815	1.5
50	MP1A	Z	0	1.5
51	MP1A	Mx	-0.000908	1.5
52	MP1A	X	1.815	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	-0.000908	3.5
55	MP1B	X	3.842	1.5
56	MP1B	Z	0	1.5
57	MP1B	Mx	0.001	1.5
58	MP1B	X	3.842	3.5
59	MP1B	Z	0	3.5
60	MP1B	Mx	0.001	3.5
61	MP1C	X	4.406	1.5
62	MP1C	Z	0	1.5
63	MP1C	Mx	0.001	1.5
64	MP1C	X	4.406	3.5
65	MP1C	Z	0	3.5
66	MP1C	Mx	0.001	3.5
67	MP2A	X	2.796	3.5
68	MP2A	Z	0	3.5
69	MP2A	Mx	0.001	3.5
70	MP2B	X	3.601	3.5
71	MP2B	Z	0	3.5
72	MP2B	Mx	-0.001	3.5
73	MP2C	X	3.825	3.5
74	MP2C	Z	0	3.5
75	MP2C	Mx	-0.000956	3.5
76	MP3A	X	2.285	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	0.001	3.5
79	MP3B	X	3.39	3.5
80	MP3B	Z	0	3.5
81	MP3B	Mx	-0.001	3.5
82	MP3C	X	3.697	3.5
83	MP3C	Z	0	3.5
84	MP3C	Mx	-0.000924	3.5
85	M104	X	8.767	1.5
86	M104	Z	0	1.5
87	M104	Mx	0	1.5
88	MP2A	X	3.191	0.5
89	MP2A	Z	0	0.5
90	MP2A	Mx	-0.002	0.5
91	MP2A	X	3.191	5.5
92	MP2A	Z	0	5.5
93	MP2A	Mx	-0.002	5.5
94	MP2B	X	5.671	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP2B	Z	0	0.5
96	MP2B	Mx	-0.000712	0.5
97	MP2B	X	5.671	5.5
98	MP2B	Z	0	5.5
99	MP2B	Mx	-0.000712	5.5
100	MP2C	X	6.361	0.5
101	MP2C	Z	0	0.5
102	MP2C	Mx	0.005	0.5
103	MP2C	X	6.361	5.5
104	MP2C	Z	0	5.5
105	MP2C	Mx	0.005	5.5
106	MP2A	X	3.191	0.5
107	MP2A	Z	0	0.5
108	MP2A	Mx	-0.002	0.5
109	MP2A	X	3.191	5.5
110	MP2A	Z	0	5.5
111	MP2A	Mx	-0.002	5.5
112	MP2B	X	5.671	0.5
113	MP2B	Z	0	0.5
114	MP2B	Mx	0.004	0.5
115	MP2B	X	5.671	5.5
116	MP2B	Z	0	5.5
117	MP2B	Mx	0.004	5.5
118	MP2C	X	6.361	0.5
119	MP2C	Z	0	0.5
120	MP2C	Mx	-0.002	0.5
121	MP2C	X	6.361	5.5
122	MP2C	Z	0	5.5
123	MP2C	Mx	-0.002	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	1.12	4.5
2	MP2A	Z	0.647	4.5
3	MP2A	Mx	0.001	4.5
4	MP2A	X	1.12	5.5
5	MP2A	Z	0.647	5.5
6	MP2A	Mx	0.001	5.5
7	MP2A	X	1.12	4.5
8	MP2A	Z	0.647	4.5
9	MP2A	Mx	0.000904	4.5
10	MP2A	X	1.12	5.5
11	MP2A	Z	0.647	5.5
12	MP2A	Mx	0.000904	5.5
13	MP2B	X	1.12	4.5
14	MP2B	Z	0.647	4.5
15	MP2B	Mx	0.001	4.5
16	MP2B	X	1.12	5.5
17	MP2B	Z	0.647	5.5
18	MP2B	Mx	0.001	5.5
19	MP2B	X	1.12	4.5
20	MP2B	Z	0.647	4.5
21	MP2B	Mx	0.000904	4.5
22	MP2B	X	1.12	5.5
23	MP2B	Z	0.647	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP2B	Mx	0.000904	5.5
25	MP3B	X	8.233	1
26	MP3B	Z	4.753	1
27	MP3B	Mx	0.000826	1
28	MP4A	X	3.564	1
29	MP4A	Z	2.058	1
30	MP4A	Mx	-0.002	1
31	MP4B	X	3.564	1
32	MP4B	Z	2.058	1
33	MP4B	Mx	0.002	1
34	MP4C	X	8.233	1
35	MP4C	Z	4.753	1
36	MP4C	Mx	-0.000826	1
37	OVP2	X	7.328	1.5
38	OVP2	Z	4.231	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0.824	4.5
41	MP1A	Z	0.476	4.5
42	MP1A	Mx	-0.000412	4.5
43	MP1B	X	2.025	4.5
44	MP1B	Z	1.169	4.5
45	MP1B	Mx	0.000203	4.5
46	MP1C	X	0.824	4.5
47	MP1C	Z	0.476	4.5
48	MP1C	Mx	0.000412	4.5
49	MP1A	X	2.32	1.5
50	MP1A	Z	1.339	1.5
51	MP1A	Mx	-0.001	1.5
52	MP1A	X	2.32	3.5
53	MP1A	Z	1.339	3.5
54	MP1A	Mx	-0.001	3.5
55	MP1B	X	4.474	1.5
56	MP1B	Z	2.583	1.5
57	MP1B	Mx	0.000449	1.5
58	MP1B	X	4.474	3.5
59	MP1B	Z	2.583	3.5
60	MP1B	Mx	0.000449	3.5
61	MP1C	X	2.32	1.5
62	MP1C	Z	1.339	1.5
63	MP1C	Mx	0.001	1.5
64	MP1C	X	2.32	3.5
65	MP1C	Z	1.339	3.5
66	MP1C	Mx	0.001	3.5
67	MP2A	X	2.719	3.5
68	MP2A	Z	1.57	3.5
69	MP2A	Mx	0.001	3.5
70	MP2B	X	3.573	3.5
71	MP2B	Z	2.063	3.5
72	MP2B	Mx	-0.000358	3.5
73	MP2C	X	2.719	3.5
74	MP2C	Z	1.57	3.5
75	MP2C	Mx	-0.001	3.5
76	MP3A	X	2.387	3.5
77	MP3A	Z	1.378	3.5
78	MP3A	Mx	0.001	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP3B	X	3.56	3.5
80	MP3B	Z	2.055	3.5
81	MP3B	Mx	-0.000357	3.5
82	MP3C	X	2.387	3.5
83	MP3C	Z	1.378	3.5
84	MP3C	Mx	-0.001	3.5
85	M104	X	8.735	1.5
86	M104	Z	5.043	1.5
87	M104	Mx	0	1.5
88	MP2A	X	3.678	0.5
89	MP2A	Z	2.124	0.5
90	MP2A	Mx	-0.0006	0.5
91	MP2A	X	3.678	5.5
92	MP2A	Z	2.124	5.5
93	MP2A	Mx	-0.0006	5.5
94	MP2B	X	6.314	0.5
95	MP2B	Z	3.645	0.5
96	MP2B	Mx	-0.004	0.5
97	MP2B	X	6.314	5.5
98	MP2B	Z	3.645	5.5
99	MP2B	Mx	-0.004	5.5
100	MP2C	X	3.678	0.5
101	MP2C	Z	2.124	0.5
102	MP2C	Mx	0.003	0.5
103	MP2C	X	3.678	5.5
104	MP2C	Z	2.124	5.5
105	MP2C	Mx	0.003	5.5
106	MP2A	X	3.678	0.5
107	MP2A	Z	2.124	0.5
108	MP2A	Mx	-0.003	0.5
109	MP2A	X	3.678	5.5
110	MP2A	Z	2.124	5.5
111	MP2A	Mx	-0.003	5.5
112	MP2B	X	6.314	0.5
113	MP2B	Z	3.645	0.5
114	MP2B	Mx	0.005	0.5
115	MP2B	X	6.314	5.5
116	MP2B	Z	3.645	5.5
117	MP2B	Mx	0.005	5.5
118	MP2C	X	3.678	0.5
119	MP2C	Z	2.124	0.5
120	MP2C	Mx	0.000601	0.5
121	MP2C	X	3.678	5.5
122	MP2C	Z	2.124	5.5
123	MP2C	Mx	0.000601	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0.646	4.5
2	MP2A	Z	1.119	4.5
3	MP2A	Mx	0.001	4.5
4	MP2A	X	0.646	5.5
5	MP2A	Z	1.119	5.5
6	MP2A	Mx	0.001	5.5
7	MP2A	X	0.646	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
8	MP2A	Z	1.119	4.5
9	MP2A	Mx	0.000273	4.5
10	MP2A	X	0.646	5.5
11	MP2A	Z	1.119	5.5
12	MP2A	Mx	0.000273	5.5
13	MP2B	X	0.646	4.5
14	MP2B	Z	1.119	4.5
15	MP2B	Mx	0.001	4.5
16	MP2B	X	0.646	5.5
17	MP2B	Z	1.119	5.5
18	MP2B	Mx	0.001	5.5
19	MP2B	X	0.646	4.5
20	MP2B	Z	1.119	4.5
21	MP2B	Mx	0.000273	4.5
22	MP2B	X	0.646	5.5
23	MP2B	Z	1.119	5.5
24	MP2B	Mx	0.000273	5.5
25	MP3B	X	4.504	1
26	MP3B	Z	7.802	1
27	MP3B	Mx	-0.002	1
28	MP4A	X	2.307	1
29	MP4A	Z	3.996	1
30	MP4A	Mx	-0.002	1
31	MP4B	X	2.307	1
32	MP4B	Z	3.996	1
33	MP4B	Mx	0.002	1
34	MP4C	X	4.504	1
35	MP4C	Z	7.802	1
36	MP4C	Mx	0.002	1
37	OVP2	X	4.142	1.5
38	OVP2	Z	7.174	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0.957	4.5
41	MP1A	Z	1.658	4.5
42	MP1A	Mx	-0.000478	4.5
43	MP1B	X	1.086	4.5
44	MP1B	Z	1.88	4.5
45	MP1B	Mx	-0.000371	4.5
46	MP1C	X	0.235	4.5
47	MP1C	Z	0.407	4.5
48	MP1C	Mx	0.000235	4.5
49	MP1A	X	2.203	1.5
50	MP1A	Z	3.816	1.5
51	MP1A	Mx	-0.001	1.5
52	MP1A	X	2.203	3.5
53	MP1A	Z	3.816	3.5
54	MP1A	Mx	-0.001	3.5
55	MP1B	X	2.433	1.5
56	MP1B	Z	4.214	1.5
57	MP1B	Mx	-0.000832	1.5
58	MP1B	X	2.433	3.5
59	MP1B	Z	4.214	3.5
60	MP1B	Mx	-0.000832	3.5
61	MP1C	X	0.907	1.5
62	MP1C	Z	1.572	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
63	MP1C	Mx	0.000907	1.5
64	MP1C	X	0.907	3.5
65	MP1C	Z	1.572	3.5
66	MP1C	Mx	0.000907	3.5
67	MP2A	X	1.912	3.5
68	MP2A	Z	3.312	3.5
69	MP2A	Mx	0.000956	3.5
70	MP2B	X	2.004	3.5
71	MP2B	Z	3.47	3.5
72	MP2B	Mx	0.000685	3.5
73	MP2C	X	1.398	3.5
74	MP2C	Z	2.422	3.5
75	MP2C	Mx	-0.001	3.5
76	MP3A	X	1.849	3.5
77	MP3A	Z	3.202	3.5
78	MP3A	Mx	0.000924	3.5
79	MP3B	X	1.974	3.5
80	MP3B	Z	3.419	3.5
81	MP3B	Mx	0.000675	3.5
82	MP3C	X	1.143	3.5
83	MP3C	Z	1.979	3.5
84	MP3C	Mx	-0.001	3.5
85	M104	X	4.894	1.5
86	M104	Z	8.476	1.5
87	M104	Mx	0	1.5
88	MP2A	X	3.181	0.5
89	MP2A	Z	5.509	0.5
90	MP2A	Mx	0.002	0.5
91	MP2A	X	3.181	5.5
92	MP2A	Z	5.509	5.5
93	MP2A	Mx	0.002	5.5
94	MP2B	X	3.462	0.5
95	MP2B	Z	5.996	0.5
96	MP2B	Mx	-0.005	0.5
97	MP2B	X	3.462	5.5
98	MP2B	Z	5.996	5.5
99	MP2B	Mx	-0.005	5.5
100	MP2C	X	1.595	0.5
101	MP2C	Z	2.763	0.5
102	MP2C	Mx	0.002	0.5
103	MP2C	X	1.595	5.5
104	MP2C	Z	2.763	5.5
105	MP2C	Mx	0.002	5.5
106	MP2A	X	3.181	0.5
107	MP2A	Z	5.509	0.5
108	MP2A	Mx	-0.005	0.5
109	MP2A	X	3.181	5.5
110	MP2A	Z	5.509	5.5
111	MP2A	Mx	-0.005	5.5
112	MP2B	X	3.462	0.5
113	MP2B	Z	5.996	0.5
114	MP2B	Mx	0.003	0.5
115	MP2B	X	3.462	5.5
116	MP2B	Z	5.996	5.5
117	MP2B	Mx	0.003	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
118	MP2C	X	1.595	0.5
119	MP2C	Z	2.763	0.5
120	MP2C	Mx	0.002	0.5
121	MP2C	X	1.595	5.5
122	MP2C	Z	2.763	5.5
123	MP2C	Mx	0.002	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0	4.5
2	MP2A	Z	1.291	4.5
3	MP2A	Mx	0.00043	4.5
4	MP2A	X	0	5.5
5	MP2A	Z	1.291	5.5
6	MP2A	Mx	0.00043	5.5
7	MP2A	X	0	4.5
8	MP2A	Z	1.291	4.5
9	MP2A	Mx	-0.00043	4.5
10	MP2A	X	0	5.5
11	MP2A	Z	1.291	5.5
12	MP2A	Mx	-0.00043	5.5
13	MP2B	X	0	4.5
14	MP2B	Z	1.291	4.5
15	MP2B	Mx	0.00043	4.5
16	MP2B	X	0	5.5
17	MP2B	Z	1.291	5.5
18	MP2B	Mx	0.00043	5.5
19	MP2B	X	0	4.5
20	MP2B	Z	1.291	4.5
21	MP2B	Mx	-0.00043	4.5
22	MP2B	X	0	5.5
23	MP2B	Z	1.291	5.5
24	MP2B	Mx	-0.00043	5.5
25	MP3B	X	0	1
26	MP3B	Z	6.313	1
27	MP3B	Mx	-0.002	1
28	MP4A	X	0	1
29	MP4A	Z	7.309	1
30	MP4A	Mx	-0.002	1
31	MP4B	X	0	1
32	MP4B	Z	7.309	1
33	MP4B	Mx	0.002	1
34	MP4C	X	0	1
35	MP4C	Z	6.313	1
36	MP4C	Mx	0.002	1
37	OVP2	X	0	1.5
38	OVP2	Z	7.324	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	0	4.5
41	MP1A	Z	2.396	4.5
42	MP1A	Mx	0	4.5
43	MP1B	X	0	4.5
44	MP1B	Z	1.266	4.5
45	MP1B	Mx	-0.000485	4.5
46	MP1C	X	0	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
47	MP1C	Z	0.952	4.5
48	MP1C	Mx	0.000412	4.5
49	MP1A	X	0	1.5
50	MP1A	Z	5.27	1.5
51	MP1A	Mx	0	1.5
52	MP1A	X	0	3.5
53	MP1A	Z	5.27	3.5
54	MP1A	Mx	0	3.5
55	MP1B	X	0	1.5
56	MP1B	Z	3.242	1.5
57	MP1B	Mx	-0.001	1.5
58	MP1B	X	0	3.5
59	MP1B	Z	3.242	3.5
60	MP1B	Mx	-0.001	3.5
61	MP1C	X	0	1.5
62	MP1C	Z	2.679	1.5
63	MP1C	Mx	0.001	1.5
64	MP1C	X	0	3.5
65	MP1C	Z	2.679	3.5
66	MP1C	Mx	0.001	3.5
67	MP2A	X	0	3.5
68	MP2A	Z	4.168	3.5
69	MP2A	Mx	0	3.5
70	MP2B	X	0	3.5
71	MP2B	Z	3.363	3.5
72	MP2B	Mx	0.001	3.5
73	MP2C	X	0	3.5
74	MP2C	Z	3.139	3.5
75	MP2C	Mx	-0.001	3.5
76	MP3A	X	0	3.5
77	MP3A	Z	4.168	3.5
78	MP3A	Mx	0	3.5
79	MP3B	X	0	3.5
80	MP3B	Z	3.063	3.5
81	MP3B	Mx	0.001	3.5
82	MP3C	X	0	3.5
83	MP3C	Z	2.756	3.5
84	MP3C	Mx	-0.001	3.5
85	M104	X	0	1.5
86	M104	Z	8.169	1.5
87	M104	Mx	0	1.5
88	MP2A	X	0	0.5
89	MP2A	Z	7.418	0.5
90	MP2A	Mx	0.004	0.5
91	MP2A	X	0	5.5
92	MP2A	Z	7.418	5.5
93	MP2A	Mx	0.004	5.5
94	MP2B	X	0	0.5
95	MP2B	Z	4.937	0.5
96	MP2B	Mx	-0.004	0.5
97	MP2B	X	0	5.5
98	MP2B	Z	4.937	5.5
99	MP2B	Mx	-0.004	5.5
100	MP2C	X	0	0.5
101	MP2C	Z	4.248	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
102	MP2C	Mx	0.0006	0.5
103	MP2C	X	0	5.5
104	MP2C	Z	4.248	5.5
105	MP2C	Mx	0.0006	5.5
106	MP2A	X	0	0.5
107	MP2A	Z	7.418	0.5
108	MP2A	Mx	-0.004	0.5
109	MP2A	X	0	5.5
110	MP2A	Z	7.418	5.5
111	MP2A	Mx	-0.004	5.5
112	MP2B	X	0	0.5
113	MP2B	Z	4.937	0.5
114	MP2B	Mx	-4e-5	0.5
115	MP2B	X	0	5.5
116	MP2B	Z	4.937	5.5
117	MP2B	Mx	-4e-5	5.5
118	MP2C	X	0	0.5
119	MP2C	Z	4.248	0.5
120	MP2C	Mx	0.003	0.5
121	MP2C	X	0	5.5
122	MP2C	Z	4.248	5.5
123	MP2C	Mx	0.003	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-0.646	4.5
2	MP2A	Z	1.119	4.5
3	MP2A	Mx	-0.000273	4.5
4	MP2A	X	-0.646	5.5
5	MP2A	Z	1.119	5.5
6	MP2A	Mx	-0.000273	5.5
7	MP2A	X	-0.646	4.5
8	MP2A	Z	1.119	4.5
9	MP2A	Mx	-0.001	4.5
10	MP2A	X	-0.646	5.5
11	MP2A	Z	1.119	5.5
12	MP2A	Mx	-0.001	5.5
13	MP2B	X	-0.646	4.5
14	MP2B	Z	1.119	4.5
15	MP2B	Mx	-0.000273	4.5
16	MP2B	X	-0.646	5.5
17	MP2B	Z	1.119	5.5
18	MP2B	Mx	-0.000273	5.5
19	MP2B	X	-0.646	4.5
20	MP2B	Z	1.119	4.5
21	MP2B	Mx	-0.001	4.5
22	MP2B	X	-0.646	5.5
23	MP2B	Z	1.119	5.5
24	MP2B	Mx	-0.001	5.5
25	MP3B	X	-2.058	1
26	MP3B	Z	3.564	1
27	MP3B	Mx	-0.002	1
28	MP4A	X	-4.753	1
29	MP4A	Z	8.233	1
30	MP4A	Mx	-0.000826	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
31	MP4B	X	-4.753	1
32	MP4B	Z	8.233	1
33	MP4B	Mx	0.000826	1
34	MP4C	X	-2.058	1
35	MP4C	Z	3.564	1
36	MP4C	Mx	0.002	1
37	OVP2	X	-3.271	1.5
38	OVP2	Z	5.665	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-0.957	4.5
41	MP1A	Z	1.658	4.5
42	MP1A	Mx	0.000478	4.5
43	MP1B	X	-0.264	4.5
44	MP1B	Z	0.457	4.5
45	MP1B	Mx	-0.00026	4.5
46	MP1C	X	-0.957	4.5
47	MP1C	Z	1.658	4.5
48	MP1C	Mx	0.000479	4.5
49	MP1A	X	-2.203	1.5
50	MP1A	Z	3.816	1.5
51	MP1A	Mx	0.001	1.5
52	MP1A	X	-2.203	3.5
53	MP1A	Z	3.816	3.5
54	MP1A	Mx	0.001	3.5
55	MP1B	X	-0.96	1.5
56	MP1B	Z	1.662	1.5
57	MP1B	Mx	-0.000945	1.5
58	MP1B	X	-0.96	3.5
59	MP1B	Z	1.662	3.5
60	MP1B	Mx	-0.000945	3.5
61	MP1C	X	-2.203	1.5
62	MP1C	Z	3.816	1.5
63	MP1C	Mx	0.001	1.5
64	MP1C	X	-2.203	3.5
65	MP1C	Z	3.816	3.5
66	MP1C	Mx	0.001	3.5
67	MP2A	X	-1.912	3.5
68	MP2A	Z	3.312	3.5
69	MP2A	Mx	-0.000956	3.5
70	MP2B	X	-1.419	3.5
71	MP2B	Z	2.457	3.5
72	MP2B	Mx	0.001	3.5
73	MP2C	X	-1.912	3.5
74	MP2C	Z	3.312	3.5
75	MP2C	Mx	-0.000956	3.5
76	MP3A	X	-1.849	3.5
77	MP3A	Z	3.202	3.5
78	MP3A	Mx	-0.000924	3.5
79	MP3B	X	-1.171	3.5
80	MP3B	Z	2.028	3.5
81	MP3B	Mx	0.001	3.5
82	MP3C	X	-1.849	3.5
83	MP3C	Z	3.202	3.5
84	MP3C	Mx	-0.000924	3.5
85	M104	X	-3.425	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
86	M104	Z	5.932	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-3.181	0.5
89	MP2A	Z	5.509	0.5
90	MP2A	Mx	0.005	0.5
91	MP2A	X	-3.181	5.5
92	MP2A	Z	5.509	5.5
93	MP2A	Mx	0.005	5.5
94	MP2B	X	-1.659	0.5
95	MP2B	Z	2.874	0.5
96	MP2B	Mx	-0.002	0.5
97	MP2B	X	-1.659	5.5
98	MP2B	Z	2.874	5.5
99	MP2B	Mx	-0.002	5.5
100	MP2C	X	-3.181	0.5
101	MP2C	Z	5.509	0.5
102	MP2C	Mx	-0.002	0.5
103	MP2C	X	-3.181	5.5
104	MP2C	Z	5.509	5.5
105	MP2C	Mx	-0.002	5.5
106	MP2A	X	-3.181	0.5
107	MP2A	Z	5.509	0.5
108	MP2A	Mx	-0.002	0.5
109	MP2A	X	-3.181	5.5
110	MP2A	Z	5.509	5.5
111	MP2A	Mx	-0.002	5.5
112	MP2B	X	-1.659	0.5
113	MP2B	Z	2.874	0.5
114	MP2B	Mx	-0.001	0.5
115	MP2B	X	-1.659	5.5
116	MP2B	Z	2.874	5.5
117	MP2B	Mx	-0.001	5.5
118	MP2C	X	-3.181	0.5
119	MP2C	Z	5.509	0.5
120	MP2C	Mx	0.005	0.5
121	MP2C	X	-3.181	5.5
122	MP2C	Z	5.509	5.5
123	MP2C	Mx	0.005	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-1.12	4.5
2	MP2A	Z	0.647	4.5
3	MP2A	Mx	-0.000904	4.5
4	MP2A	X	-1.12	5.5
5	MP2A	Z	0.647	5.5
6	MP2A	Mx	-0.000904	5.5
7	MP2A	X	-1.12	4.5
8	MP2A	Z	0.647	4.5
9	MP2A	Mx	-0.001	4.5
10	MP2A	X	-1.12	5.5
11	MP2A	Z	0.647	5.5
12	MP2A	Mx	-0.001	5.5
13	MP2B	X	-1.12	4.5
14	MP2B	Z	0.647	4.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
15	MP2B	Mx	-0.000904	4.5
16	MP2B	X	-1.12	5.5
17	MP2B	Z	0.647	5.5
18	MP2B	Mx	-0.000904	5.5
19	MP2B	X	-1.12	4.5
20	MP2B	Z	0.647	4.5
21	MP2B	Mx	-0.001	4.5
22	MP2B	X	-1.12	5.5
23	MP2B	Z	0.647	5.5
24	MP2B	Mx	-0.001	5.5
25	MP3B	X	-3.996	1
26	MP3B	Z	2.307	1
27	MP3B	Mx	-0.002	1
28	MP4A	X	-7.802	1
29	MP4A	Z	4.504	1
30	MP4A	Mx	0.002	1
31	MP4B	X	-7.802	1
32	MP4B	Z	4.504	1
33	MP4B	Mx	-0.002	1
34	MP4C	X	-3.996	1
35	MP4C	Z	2.307	1
36	MP4C	Mx	0.002	1
37	OVP2	X	-5.819	1.5
38	OVP2	Z	3.359	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-0.824	4.5
41	MP1A	Z	0.476	4.5
42	MP1A	Mx	0.000412	4.5
43	MP1B	X	-0.602	4.5
44	MP1B	Z	0.348	4.5
45	MP1B	Mx	-0.000327	4.5
46	MP1C	X	-2.075	4.5
47	MP1C	Z	1.198	4.5
48	MP1C	Mx	0	4.5
49	MP1A	X	-2.32	1.5
50	MP1A	Z	1.339	1.5
51	MP1A	Mx	0.001	1.5
52	MP1A	X	-2.32	3.5
53	MP1A	Z	1.339	3.5
54	MP1A	Mx	0.001	3.5
55	MP1B	X	-1.922	1.5
56	MP1B	Z	1.11	1.5
57	MP1B	Mx	-0.001	1.5
58	MP1B	X	-1.922	3.5
59	MP1B	Z	1.11	3.5
60	MP1B	Mx	-0.001	3.5
61	MP1C	X	-4.564	1.5
62	MP1C	Z	2.635	1.5
63	MP1C	Mx	0	1.5
64	MP1C	X	-4.564	3.5
65	MP1C	Z	2.635	3.5
66	MP1C	Mx	0	3.5
67	MP2A	X	-2.719	3.5
68	MP2A	Z	1.57	3.5
69	MP2A	Mx	-0.001	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
70	MP2B	X	-2.561	3.5
71	MP2B	Z	1.478	3.5
72	MP2B	Mx	0.001	3.5
73	MP2C	X	-3.609	3.5
74	MP2C	Z	2.084	3.5
75	MP2C	Mx	0	3.5
76	MP3A	X	-2.387	3.5
77	MP3A	Z	1.378	3.5
78	MP3A	Mx	-0.001	3.5
79	MP3B	X	-2.17	3.5
80	MP3B	Z	1.253	3.5
81	MP3B	Mx	0.001	3.5
82	MP3C	X	-3.609	3.5
83	MP3C	Z	2.084	3.5
84	MP3C	Mx	0	3.5
85	M104	X	-6.191	1.5
86	M104	Z	3.574	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-3.678	0.5
89	MP2A	Z	2.124	0.5
90	MP2A	Mx	0.003	0.5
91	MP2A	X	-3.678	5.5
92	MP2A	Z	2.124	5.5
93	MP2A	Mx	0.003	5.5
94	MP2B	X	-3.191	0.5
95	MP2B	Z	1.843	0.5
96	MP2B	Mx	-0.000997	0.5
97	MP2B	X	-3.191	5.5
98	MP2B	Z	1.843	5.5
99	MP2B	Mx	-0.000997	5.5
100	MP2C	X	-6.424	0.5
101	MP2C	Z	3.709	0.5
102	MP2C	Mx	-0.004	0.5
103	MP2C	X	-6.424	5.5
104	MP2C	Z	3.709	5.5
105	MP2C	Mx	-0.004	5.5
106	MP2A	X	-3.678	0.5
107	MP2A	Z	2.124	0.5
108	MP2A	Mx	0.0006	0.5
109	MP2A	X	-3.678	5.5
110	MP2A	Z	2.124	5.5
111	MP2A	Mx	0.0006	5.5
112	MP2B	X	-3.191	0.5
113	MP2B	Z	1.843	0.5
114	MP2B	Mx	-0.002	0.5
115	MP2B	X	-3.191	5.5
116	MP2B	Z	1.843	5.5
117	MP2B	Mx	-0.002	5.5
118	MP2C	X	-6.424	0.5
119	MP2C	Z	3.709	0.5
120	MP2C	Mx	0.004	0.5
121	MP2C	X	-6.424	5.5
122	MP2C	Z	3.709	5.5
123	MP2C	Mx	0.004	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-1.294	4.5
2	MP2A	Z	0	4.5
3	MP2A	Mx	-0.001	4.5
4	MP2A	X	-1.294	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-0.001	5.5
7	MP2A	X	-1.294	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	-0.001	4.5
10	MP2A	X	-1.294	5.5
11	MP2A	Z	0	5.5
12	MP2A	Mx	-0.001	5.5
13	MP2B	X	-1.294	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	-0.001	4.5
16	MP2B	X	-1.294	5.5
17	MP2B	Z	0	5.5
18	MP2B	Mx	-0.001	5.5
19	MP2B	X	-1.294	4.5
20	MP2B	Z	0	4.5
21	MP2B	Mx	-0.001	4.5
22	MP2B	X	-1.294	5.5
23	MP2B	Z	0	5.5
24	MP2B	Mx	-0.001	5.5
25	MP3B	X	-7.309	1
26	MP3B	Z	0	1
27	MP3B	Mx	-0.002	1
28	MP4A	X	-6.313	1
29	MP4A	Z	0	1
30	MP4A	Mx	0.002	1
31	MP4B	X	-6.313	1
32	MP4B	Z	0	1
33	MP4B	Mx	-0.002	1
34	MP4C	X	-7.309	1
35	MP4C	Z	0	1
36	MP4C	Mx	0.002	1
37	OVP2	X	-7.679	1.5
38	OVP2	Z	0	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-0.47	4.5
41	MP1A	Z	0	4.5
42	MP1A	Mx	0.000235	4.5
43	MP1B	X	-1.6	4.5
44	MP1B	Z	0	4.5
45	MP1B	Mx	-0.000514	4.5
46	MP1C	X	-1.915	4.5
47	MP1C	Z	0	4.5
48	MP1C	Mx	-0.000479	4.5
49	MP1A	X	-1.815	1.5
50	MP1A	Z	0	1.5
51	MP1A	Mx	0.000908	1.5
52	MP1A	X	-1.815	3.5
53	MP1A	Z	0	3.5
54	MP1A	Mx	0.000908	3.5
55	MP1B	X	-3.842	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
56	MP1B	Z	0	1.5
57	MP1B	Mx	-0.001	1.5
58	MP1B	X	-3.842	3.5
59	MP1B	Z	0	3.5
60	MP1B	Mx	-0.001	3.5
61	MP1C	X	-4.406	1.5
62	MP1C	Z	0	1.5
63	MP1C	Mx	-0.001	1.5
64	MP1C	X	-4.406	3.5
65	MP1C	Z	0	3.5
66	MP1C	Mx	-0.001	3.5
67	MP2A	X	-2.796	3.5
68	MP2A	Z	0	3.5
69	MP2A	Mx	-0.001	3.5
70	MP2B	X	-3.601	3.5
71	MP2B	Z	0	3.5
72	MP2B	Mx	0.001	3.5
73	MP2C	X	-3.825	3.5
74	MP2C	Z	0	3.5
75	MP2C	Mx	0.000956	3.5
76	MP3A	X	-2.285	3.5
77	MP3A	Z	0	3.5
78	MP3A	Mx	-0.001	3.5
79	MP3B	X	-3.39	3.5
80	MP3B	Z	0	3.5
81	MP3B	Mx	0.001	3.5
82	MP3C	X	-3.697	3.5
83	MP3C	Z	0	3.5
84	MP3C	Mx	0.000924	3.5
85	M104	X	-8.767	1.5
86	M104	Z	0	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-3.191	0.5
89	MP2A	Z	0	0.5
90	MP2A	Mx	0.002	0.5
91	MP2A	X	-3.191	5.5
92	MP2A	Z	0	5.5
93	MP2A	Mx	0.002	5.5
94	MP2B	X	-5.671	0.5
95	MP2B	Z	0	0.5
96	MP2B	Mx	0.000712	0.5
97	MP2B	X	-5.671	5.5
98	MP2B	Z	0	5.5
99	MP2B	Mx	0.000712	5.5
100	MP2C	X	-6.361	0.5
101	MP2C	Z	0	0.5
102	MP2C	Mx	-0.005	0.5
103	MP2C	X	-6.361	5.5
104	MP2C	Z	0	5.5
105	MP2C	Mx	-0.005	5.5
106	MP2A	X	-3.191	0.5
107	MP2A	Z	0	0.5
108	MP2A	Mx	0.002	0.5
109	MP2A	X	-3.191	5.5
110	MP2A	Z	0	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
111	MP2A	Mx	0.002	5.5
112	MP2B	X	-5.671	0.5
113	MP2B	Z	0	0.5
114	MP2B	Mx	-0.004	0.5
115	MP2B	X	-5.671	5.5
116	MP2B	Z	0	5.5
117	MP2B	Mx	-0.004	5.5
118	MP2C	X	-6.361	0.5
119	MP2C	Z	0	0.5
120	MP2C	Mx	0.002	0.5
121	MP2C	X	-6.361	5.5
122	MP2C	Z	0	5.5
123	MP2C	Mx	0.002	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-1.12	4.5
2	MP2A	Z	-0.647	4.5
3	MP2A	Mx	-0.001	4.5
4	MP2A	X	-1.12	5.5
5	MP2A	Z	-0.647	5.5
6	MP2A	Mx	-0.001	5.5
7	MP2A	X	-1.12	4.5
8	MP2A	Z	-0.647	4.5
9	MP2A	Mx	-0.000904	4.5
10	MP2A	X	-1.12	5.5
11	MP2A	Z	-0.647	5.5
12	MP2A	Mx	-0.000904	5.5
13	MP2B	X	-1.12	4.5
14	MP2B	Z	-0.647	4.5
15	MP2B	Mx	-0.001	4.5
16	MP2B	X	-1.12	5.5
17	MP2B	Z	-0.647	5.5
18	MP2B	Mx	-0.001	5.5
19	MP2B	X	-1.12	4.5
20	MP2B	Z	-0.647	4.5
21	MP2B	Mx	-0.000904	4.5
22	MP2B	X	-1.12	5.5
23	MP2B	Z	-0.647	5.5
24	MP2B	Mx	-0.000904	5.5
25	MP3B	X	-8.233	1
26	MP3B	Z	-4.753	1
27	MP3B	Mx	-0.000826	1
28	MP4A	X	-3.564	1
29	MP4A	Z	-2.058	1
30	MP4A	Mx	0.002	1
31	MP4B	X	-3.564	1
32	MP4B	Z	-2.058	1
33	MP4B	Mx	-0.002	1
34	MP4C	X	-8.233	1
35	MP4C	Z	-4.753	1
36	MP4C	Mx	0.000826	1
37	OVP2	X	-7.328	1.5
38	OVP2	Z	-4.231	1.5
39	OVP2	Mx	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP1A	X	-0.824	4.5
41	MP1A	Z	-0.476	4.5
42	MP1A	Mx	0.000412	4.5
43	MP1B	X	-2.025	4.5
44	MP1B	Z	-1.169	4.5
45	MP1B	Mx	-0.000203	4.5
46	MP1C	X	-0.824	4.5
47	MP1C	Z	-0.476	4.5
48	MP1C	Mx	-0.000412	4.5
49	MP1A	X	-2.32	1.5
50	MP1A	Z	-1.339	1.5
51	MP1A	Mx	0.001	1.5
52	MP1A	X	-2.32	3.5
53	MP1A	Z	-1.339	3.5
54	MP1A	Mx	0.001	3.5
55	MP1B	X	-4.474	1.5
56	MP1B	Z	-2.583	1.5
57	MP1B	Mx	-0.000449	1.5
58	MP1B	X	-4.474	3.5
59	MP1B	Z	-2.583	3.5
60	MP1B	Mx	-0.000449	3.5
61	MP1C	X	-2.32	1.5
62	MP1C	Z	-1.339	1.5
63	MP1C	Mx	-0.001	1.5
64	MP1C	X	-2.32	3.5
65	MP1C	Z	-1.339	3.5
66	MP1C	Mx	-0.001	3.5
67	MP2A	X	-2.719	3.5
68	MP2A	Z	-1.57	3.5
69	MP2A	Mx	-0.001	3.5
70	MP2B	X	-3.573	3.5
71	MP2B	Z	-2.063	3.5
72	MP2B	Mx	0.000358	3.5
73	MP2C	X	-2.719	3.5
74	MP2C	Z	-1.57	3.5
75	MP2C	Mx	0.001	3.5
76	MP3A	X	-2.387	3.5
77	MP3A	Z	-1.378	3.5
78	MP3A	Mx	-0.001	3.5
79	MP3B	X	-3.56	3.5
80	MP3B	Z	-2.055	3.5
81	MP3B	Mx	0.000357	3.5
82	MP3C	X	-2.387	3.5
83	MP3C	Z	-1.378	3.5
84	MP3C	Mx	0.001	3.5
85	M104	X	-8.735	1.5
86	M104	Z	-5.043	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-3.678	0.5
89	MP2A	Z	-2.124	0.5
90	MP2A	Mx	0.0006	0.5
91	MP2A	X	-3.678	5.5
92	MP2A	Z	-2.124	5.5
93	MP2A	Mx	0.0006	5.5
94	MP2B	X	-6.314	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP2B	Z	-3.645	0.5
96	MP2B	Mx	0.004	0.5
97	MP2B	X	-6.314	5.5
98	MP2B	Z	-3.645	5.5
99	MP2B	Mx	0.004	5.5
100	MP2C	X	-3.678	0.5
101	MP2C	Z	-2.124	0.5
102	MP2C	Mx	-0.003	0.5
103	MP2C	X	-3.678	5.5
104	MP2C	Z	-2.124	5.5
105	MP2C	Mx	-0.003	5.5
106	MP2A	X	-3.678	0.5
107	MP2A	Z	-2.124	0.5
108	MP2A	Mx	0.003	0.5
109	MP2A	X	-3.678	5.5
110	MP2A	Z	-2.124	5.5
111	MP2A	Mx	0.003	5.5
112	MP2B	X	-6.314	0.5
113	MP2B	Z	-3.645	0.5
114	MP2B	Mx	-0.005	0.5
115	MP2B	X	-6.314	5.5
116	MP2B	Z	-3.645	5.5
117	MP2B	Mx	-0.005	5.5
118	MP2C	X	-3.678	0.5
119	MP2C	Z	-2.124	0.5
120	MP2C	Mx	-0.000601	0.5
121	MP2C	X	-3.678	5.5
122	MP2C	Z	-2.124	5.5
123	MP2C	Mx	-0.000601	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	-0.646	4.5
2	MP2A	Z	-1.119	4.5
3	MP2A	Mx	-0.001	4.5
4	MP2A	X	-0.646	5.5
5	MP2A	Z	-1.119	5.5
6	MP2A	Mx	-0.001	5.5
7	MP2A	X	-0.646	4.5
8	MP2A	Z	-1.119	4.5
9	MP2A	Mx	-0.000273	4.5
10	MP2A	X	-0.646	5.5
11	MP2A	Z	-1.119	5.5
12	MP2A	Mx	-0.000273	5.5
13	MP2B	X	-0.646	4.5
14	MP2B	Z	-1.119	4.5
15	MP2B	Mx	-0.001	4.5
16	MP2B	X	-0.646	5.5
17	MP2B	Z	-1.119	5.5
18	MP2B	Mx	-0.001	5.5
19	MP2B	X	-0.646	4.5
20	MP2B	Z	-1.119	4.5
21	MP2B	Mx	-0.000273	4.5
22	MP2B	X	-0.646	5.5
23	MP2B	Z	-1.119	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP2B	Mx	-0.000273	5.5
25	MP3B	X	-4.504	1
26	MP3B	Z	-7.802	1
27	MP3B	Mx	0.002	1
28	MP4A	X	-2.307	1
29	MP4A	Z	-3.996	1
30	MP4A	Mx	0.002	1
31	MP4B	X	-2.307	1
32	MP4B	Z	-3.996	1
33	MP4B	Mx	-0.002	1
34	MP4C	X	-4.504	1
35	MP4C	Z	-7.802	1
36	MP4C	Mx	-0.002	1
37	OVP2	X	-4.142	1.5
38	OVP2	Z	-7.174	1.5
39	OVP2	Mx	0	1.5
40	MP1A	X	-0.957	4.5
41	MP1A	Z	-1.658	4.5
42	MP1A	Mx	0.000478	4.5
43	MP1B	X	-1.086	4.5
44	MP1B	Z	-1.88	4.5
45	MP1B	Mx	0.000371	4.5
46	MP1C	X	-0.235	4.5
47	MP1C	Z	-0.407	4.5
48	MP1C	Mx	-0.000235	4.5
49	MP1A	X	-2.203	1.5
50	MP1A	Z	-3.816	1.5
51	MP1A	Mx	0.001	1.5
52	MP1A	X	-2.203	3.5
53	MP1A	Z	-3.816	3.5
54	MP1A	Mx	0.001	3.5
55	MP1B	X	-2.433	1.5
56	MP1B	Z	-4.214	1.5
57	MP1B	Mx	0.000832	1.5
58	MP1B	X	-2.433	3.5
59	MP1B	Z	-4.214	3.5
60	MP1B	Mx	0.000832	3.5
61	MP1C	X	-0.907	1.5
62	MP1C	Z	-1.572	1.5
63	MP1C	Mx	-0.000907	1.5
64	MP1C	X	-0.907	3.5
65	MP1C	Z	-1.572	3.5
66	MP1C	Mx	-0.000907	3.5
67	MP2A	X	-1.912	3.5
68	MP2A	Z	-3.312	3.5
69	MP2A	Mx	-0.000956	3.5
70	MP2B	X	-2.004	3.5
71	MP2B	Z	-3.47	3.5
72	MP2B	Mx	-0.000685	3.5
73	MP2C	X	-1.398	3.5
74	MP2C	Z	-2.422	3.5
75	MP2C	Mx	0.001	3.5
76	MP3A	X	-1.849	3.5
77	MP3A	Z	-3.202	3.5
78	MP3A	Mx	-0.000924	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP3B	X	-1.974	3.5
80	MP3B	Z	-3.419	3.5
81	MP3B	Mx	-0.000675	3.5
82	MP3C	X	-1.143	3.5
83	MP3C	Z	-1.979	3.5
84	MP3C	Mx	0.001	3.5
85	M104	X	-4.894	1.5
86	M104	Z	-8.476	1.5
87	M104	Mx	0	1.5
88	MP2A	X	-3.181	0.5
89	MP2A	Z	-5.509	0.5
90	MP2A	Mx	-0.002	0.5
91	MP2A	X	-3.181	5.5
92	MP2A	Z	-5.509	5.5
93	MP2A	Mx	-0.002	5.5
94	MP2B	X	-3.462	0.5
95	MP2B	Z	-5.996	0.5
96	MP2B	Mx	0.005	0.5
97	MP2B	X	-3.462	5.5
98	MP2B	Z	-5.996	5.5
99	MP2B	Mx	0.005	5.5
100	MP2C	X	-1.595	0.5
101	MP2C	Z	-2.763	0.5
102	MP2C	Mx	-0.002	0.5
103	MP2C	X	-1.595	5.5
104	MP2C	Z	-2.763	5.5
105	MP2C	Mx	-0.002	5.5
106	MP2A	X	-3.181	0.5
107	MP2A	Z	-5.509	0.5
108	MP2A	Mx	0.005	0.5
109	MP2A	X	-3.181	5.5
110	MP2A	Z	-5.509	5.5
111	MP2A	Mx	0.005	5.5
112	MP2B	X	-3.462	0.5
113	MP2B	Z	-5.996	0.5
114	MP2B	Mx	-0.003	0.5
115	MP2B	X	-3.462	5.5
116	MP2B	Z	-5.996	5.5
117	MP2B	Mx	-0.003	5.5
118	MP2C	X	-1.595	0.5
119	MP2C	Z	-2.763	0.5
120	MP2C	Mx	-0.002	0.5
121	MP2C	X	-1.595	5.5
122	MP2C	Z	-2.763	5.5
123	MP2C	Mx	-0.002	5.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M73	Y	-500	%93

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M73	Y	-500	%50

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M73	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	M73	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Y	0	4.5
2	MP2A	My	0	4.5
3	MP2A	Mz	0	4.5
4	MP2A	Y	0	5.5
5	MP2A	My	0	5.5
6	MP2A	Mz	0	5.5
7	MP2A	Y	0	4.5
8	MP2A	My	0	4.5
9	MP2A	Mz	0	4.5
10	MP2A	Y	0	5.5
11	MP2A	My	0	5.5
12	MP2A	Mz	0	5.5
13	MP2B	Y	0	4.5
14	MP2B	My	0	4.5
15	MP2B	Mz	0	4.5
16	MP2B	Y	0	5.5
17	MP2B	My	0	5.5
18	MP2B	Mz	0	5.5
19	MP2B	Y	0	4.5
20	MP2B	My	0	4.5
21	MP2B	Mz	0	4.5
22	MP2B	Y	0	5.5
23	MP2B	My	0	5.5
24	MP2B	Mz	0	5.5
25	MP3B	Y	0	1
26	MP3B	My	0	1
27	MP3B	Mz	0	1
28	MP4A	Y	0	1
29	MP4A	My	0	1
30	MP4A	Mz	0	1
31	MP4B	Y	0	1
32	MP4B	My	0	1
33	MP4B	Mz	0	1
34	MP4C	Y	0	1
35	MP4C	My	0	1
36	MP4C	Mz	0	1
37	OVP2	Y	0	1.5
38	OVP2	My	0	1.5
39	OVP2	Mz	0	1.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
40	MP1A	Y	0	4.5
41	MP1A	My	0	4.5
42	MP1A	Mz	0	4.5
43	MP1B	Y	0	4.5
44	MP1B	My	0	4.5
45	MP1B	Mz	0	4.5
46	MP1C	Y	0	4.5
47	MP1C	My	0	4.5
48	MP1C	Mz	0	4.5
49	MP1A	Y	0	1.5
50	MP1A	My	0	1.5
51	MP1A	Mz	0	1.5
52	MP1A	Y	0	3.5
53	MP1A	My	0	3.5
54	MP1A	Mz	0	3.5
55	MP1B	Y	0	1.5
56	MP1B	My	0	1.5
57	MP1B	Mz	0	1.5
58	MP1B	Y	0	3.5
59	MP1B	My	0	3.5
60	MP1B	Mz	0	3.5
61	MP1C	Y	0	1.5
62	MP1C	My	0	1.5
63	MP1C	Mz	0	1.5
64	MP1C	Y	0	3.5
65	MP1C	My	0	3.5
66	MP1C	Mz	0	3.5
67	MP2A	Y	0	3.5
68	MP2A	My	0	3.5
69	MP2A	Mz	0	3.5
70	MP2B	Y	0	3.5
71	MP2B	My	0	3.5
72	MP2B	Mz	0	3.5
73	MP2C	Y	0	3.5
74	MP2C	My	0	3.5
75	MP2C	Mz	0	3.5
76	MP3A	Y	0	3.5
77	MP3A	My	0	3.5
78	MP3A	Mz	0	3.5
79	MP3B	Y	0	3.5
80	MP3B	My	0	3.5
81	MP3B	Mz	0	3.5
82	MP3C	Y	0	3.5
83	MP3C	My	0	3.5
84	MP3C	Mz	0	3.5
85	M104	Y	0	1.5
86	M104	My	0	1.5
87	M104	Mz	0	1.5
88	MP2A	Y	0	0.5
89	MP2A	My	0	0.5
90	MP2A	Mz	0	0.5
91	MP2A	Y	0	5.5
92	MP2A	My	0	5.5
93	MP2A	Mz	0	5.5
94	MP2B	Y	0	0.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
95	MP2B	My	0	0.5
96	MP2B	Mz	0	0.5
97	MP2B	Y	0	5.5
98	MP2B	My	0	5.5
99	MP2B	Mz	0	5.5
100	MP2C	Y	0	0.5
101	MP2C	My	0	0.5
102	MP2C	Mz	0	0.5
103	MP2C	Y	0	5.5
104	MP2C	My	0	5.5
105	MP2C	Mz	0	5.5
106	MP2A	Y	0	0.5
107	MP2A	My	0	0.5
108	MP2A	Mz	0	0.5
109	MP2A	Y	0	5.5
110	MP2A	My	0	5.5
111	MP2A	Mz	0	5.5
112	MP2B	Y	0	0.5
113	MP2B	My	0	0.5
114	MP2B	Mz	0	0.5
115	MP2B	Y	0	5.5
116	MP2B	My	0	5.5
117	MP2B	Mz	0	5.5
118	MP2C	Y	0	0.5
119	MP2C	My	0	0.5
120	MP2C	Mz	0	0.5
121	MP2C	Y	0	5.5
122	MP2C	My	0	5.5
123	MP2C	Mz	0	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	Z	-0.264	4.5
2	MP2A	Mx	-8.8e-5	4.5
3	MP2A	Z	-0.264	5.5
4	MP2A	Mx	-8.8e-5	5.5
5	MP2A	Z	-0.264	4.5
6	MP2A	Mx	8.8e-5	4.5
7	MP2A	Z	-0.264	5.5
8	MP2A	Mx	8.8e-5	5.5
9	MP2B	Z	-0.264	4.5
10	MP2B	Mx	-8.8e-5	4.5
11	MP2B	Z	-0.264	5.5
12	MP2B	Mx	-8.8e-5	5.5
13	MP2B	Z	-0.264	4.5
14	MP2B	Mx	8.8e-5	4.5
15	MP2B	Z	-0.264	5.5
16	MP2B	Mx	8.8e-5	5.5
17	MP3B	Z	-0.99	1
18	MP3B	Mx	0.000379	1
19	MP4A	Z	-0.99	1
20	MP4A	Mx	0.000318	1
21	MP4B	Z	-0.99	1
22	MP4B	Mx	-0.000318	1
23	MP4C	Z	-0.99	1

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
24	MP4C	Mx	-0.000379	1
25	OVP2	Z	-0.96	1.5
26	OVP2	Mx	0	1.5
27	MP1A	Z	-0.132	4.5
28	MP1A	Mx	0	4.5
29	MP1B	Z	-0.132	4.5
30	MP1B	Mx	5.1e-5	4.5
31	MP1C	Z	-0.132	4.5
32	MP1C	Mx	-5.7e-5	4.5
33	MP1A	Z	-1.306	1.5
34	MP1A	Mx	0	1.5
35	MP1A	Z	-1.306	3.5
36	MP1A	Mx	0	3.5
37	MP1B	Z	-1.306	1.5
38	MP1B	Mx	0.0005	1.5
39	MP1B	Z	-1.306	3.5
40	MP1B	Mx	0.0005	3.5
41	MP1C	Z	-1.306	1.5
42	MP1C	Mx	-0.000566	1.5
43	MP1C	Z	-1.306	3.5
44	MP1C	Mx	-0.000566	3.5
45	MP2A	Z	-2.532	3.5
46	MP2A	Mx	0	3.5
47	MP2B	Z	-2.532	3.5
48	MP2B	Mx	-0.00097	3.5
49	MP2C	Z	-2.532	3.5
50	MP2C	Mx	0.001	3.5
51	MP3A	Z	-2.109	3.5
52	MP3A	Mx	0	3.5
53	MP3B	Z	-2.109	3.5
54	MP3B	Mx	-0.000808	3.5
55	MP3C	Z	-2.109	3.5
56	MP3C	Mx	0.000913	3.5
57	M104	Z	-0.96	1.5
58	M104	Mx	0	1.5
59	MP2A	Z	-0.6	0.5
60	MP2A	Mx	-0.00035	0.5
61	MP2A	Z	-0.6	5.5
62	MP2A	Mx	-0.00035	5.5
63	MP2B	Z	-0.6	0.5
64	MP2B	Mx	0.000455	0.5
65	MP2B	Z	-0.6	5.5
66	MP2B	Mx	0.000455	5.5
67	MP2C	Z	-0.6	0.5
68	MP2C	Mx	-8.5e-5	0.5
69	MP2C	Z	-0.6	5.5
70	MP2C	Mx	-8.5e-5	5.5
71	MP2A	Z	-0.6	0.5
72	MP2A	Mx	0.00035	0.5
73	MP2A	Z	-0.6	5.5
74	MP2A	Mx	0.00035	5.5
75	MP2B	Z	-0.6	0.5
76	MP2B	Mx	5e-6	0.5
77	MP2B	Z	-0.6	5.5
78	MP2B	Mx	5e-6	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
79	MP2C	Z	-0.6	0.5
80	MP2C	Mx	-0.000435	0.5
81	MP2C	Z	-0.6	5.5
82	MP2C	Mx	-0.000435	5.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
1	MP2A	X	0.264	4.5
2	MP2A	Mx	0.000264	4.5
3	MP2A	X	0.264	5.5
4	MP2A	Mx	0.000264	5.5
5	MP2A	X	0.264	4.5
6	MP2A	Mx	0.000264	4.5
7	MP2A	X	0.264	5.5
8	MP2A	Mx	0.000264	5.5
9	MP2B	X	0.264	4.5
10	MP2B	Mx	0.000264	4.5
11	MP2B	X	0.264	5.5
12	MP2B	Mx	0.000264	5.5
13	MP2B	X	0.264	4.5
14	MP2B	Mx	0.000264	4.5
15	MP2B	X	0.264	5.5
16	MP2B	Mx	0.000264	5.5
17	MP3B	X	0.99	1
18	MP3B	Mx	0.000318	1
19	MP4A	X	0.99	1
20	MP4A	Mx	-0.000379	1
21	MP4B	X	0.99	1
22	MP4B	Mx	0.000379	1
23	MP4C	X	0.99	1
24	MP4C	Mx	-0.000318	1
25	OVP2	X	0.96	1.5
26	OVP2	Mx	0	1.5
27	MP1A	X	0.132	4.5
28	MP1A	Mx	-6.6e-5	4.5
29	MP1B	X	0.132	4.5
30	MP1B	Mx	4.2e-5	4.5
31	MP1C	X	0.132	4.5
32	MP1C	Mx	3.3e-5	4.5
33	MP1A	X	1.306	1.5
34	MP1A	Mx	-0.000653	1.5
35	MP1A	X	1.306	3.5
36	MP1A	Mx	-0.000653	3.5
37	MP1B	X	1.306	1.5
38	MP1B	Mx	0.00042	1.5
39	MP1B	X	1.306	3.5
40	MP1B	Mx	0.00042	3.5
41	MP1C	X	1.306	1.5
42	MP1C	Mx	0.000327	1.5
43	MP1C	X	1.306	3.5
44	MP1C	Mx	0.000327	3.5
45	MP2A	X	2.532	3.5
46	MP2A	Mx	0.001	3.5
47	MP2B	X	2.532	3.5
48	MP2B	Mx	-0.000814	3.5

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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [(ft, %)]
49	MP2C	X	2.532	3.5
50	MP2C	Mx	-0.000633	3.5
51	MP3A	X	2.109	3.5
52	MP3A	Mx	0.001	3.5
53	MP3B	X	2.109	3.5
54	MP3B	Mx	-0.000678	3.5
55	MP3C	X	2.109	3.5
56	MP3C	Mx	-0.000527	3.5
57	M104	X	0.96	1.5
58	M104	Mx	0	1.5
59	MP2A	X	0.6	0.5
60	MP2A	Mx	-0.0003	0.5
61	MP2A	X	0.6	5.5
62	MP2A	Mx	-0.0003	5.5
63	MP2B	X	0.6	0.5
64	MP2B	Mx	-7.5e-5	0.5
65	MP2B	X	0.6	5.5
66	MP2B	Mx	-7.5e-5	5.5
67	MP2C	X	0.6	0.5
68	MP2C	Mx	0.000453	0.5
69	MP2C	X	0.6	5.5
70	MP2C	Mx	0.000453	5.5
71	MP2A	X	0.6	0.5
72	MP2A	Mx	-0.0003	0.5
73	MP2A	X	0.6	5.5
74	MP2A	Mx	-0.0003	5.5
75	MP2B	X	0.6	0.5
76	MP2B	Mx	0.000461	0.5
77	MP2B	X	0.6	5.5
78	MP2B	Mx	0.000461	5.5
79	MP2C	X	0.6	0.5
80	MP2C	Mx	-0.000153	0.5
81	MP2C	X	0.6	5.5
82	MP2C	Mx	-0.000153	5.5

Node Reactions

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
0	1	N3	22.805	-242.425	4628.24	-0.207	0.065	0.066
1	1	N30A	216.34	101.238	973.319	-0.086	1.126	0.035
2	1	N59	-79.571	149.816	761.482	-0.11	-0.747	0.085
3	1	N93A	0.459	1860.341	-2603.112	0	0	0
4	1	N94A	-868.584	727.626	533.43	0	0	0
5	1	N95	708.566	597.796	441.338	0	0	0
6	1	Totals:	0.015	3194.393	4734.696			
7	1	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
8	2	N3	-326.004	-237.184	4276.904	-0.219	0.162	0.049
9	2	N30A	-962.695	212.506	1024.479	-0.162	0.279	-0.024
10	2	N59	-1642.769	38.051	176.956	-0.147	-1.342	-0.071
11	2	N93A	-9.216	1775.233	-2477.279	0	0	0
12	2	N94A	-522.246	439.247	312.074	0	0	0
13	2	N95	1143.305	966.536	704.771	0	0	0
14	2	Totals:	-2319.626	3194.389	4017.905			
15	2	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
16	3	N3	-917.161	-169.513	3210.396	-0.176	1.141	-0.046
17	3	N30A	-1348.583	271.681	933.185	-0.218	0.327	-0.044

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
18	3	N59	-2880.664	-86.943	-919.762	-0.093	-0.636	-0.188
19	3	N93A	-26.91	1517.028	-2109.376	0	0	0
20	3	N94A	-379.47	322.882	218.984	0	0	0
21	3	N95	1593.816	1339.251	952.397	0	0	0
22	3	Totals:	-3958.971	3194.386	2285.824			
23	3	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
24	4	N3	-1243.897	-54.657	1528.341	-0.098	1.758	-0.133
25	4	N30A	-1303.364	272.629	497.587	-0.221	0.224	-0.039
26	4	N59	-3500.881	-193.366	-1820.186	-0.016	0.166	-0.269
27	4	N93A	-38.037	1153.392	-1608.283	0	0	0
28	4	N94A	-470.213	389.504	260.737	0	0	0
29	4	N95	1957.575	1626.882	1141.817	0	0	0
30	4	Totals:	-4598.816	3194.384	0.011			
31	4	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
32	5	N3	-909.504	84.712	-197.173	-0.005	0.993	-0.156
33	5	N30A	-777.089	212.031	-595.687	-0.138	-0.908	-0.049
34	5	N59	-3708.259	-255.275	-2131.881	0.023	-0.015	-0.318
35	5	N93A	-27.787	762.636	-1068.721	0	0	0
36	5	N94A	-774.841	628.961	415.18	0	0	0
37	5	N95	2132.305	1761.318	1231.178	0	0	0
38	5	Totals:	-4065.175	3194.383	-2347.104			
39	5	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
40	6	N3	-350.033	208.521	-1317.051	0.086	0.033	-0.171
41	6	N30A	551.523	96.384	-1826.776	-0.008	-1.732	-0.052
42	6	N59	-3406.169	-254.542	-2188.963	0.067	-0.114	-0.29
43	6	N93A	-9.304	450.874	-624.85	0	0	0
44	6	N94A	-1219.597	997.186	659.815	0	0	0
45	6	N95	2052.616	1695.96	1173.754	0	0	0
46	6	Totals:	-2380.965	3194.384	-4124.071			
47	6	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
48	7	N3	-22.199	275.397	-1653.011	0.15	-0.014	-0.205
49	7	N30A	2266.482	-39.966	-2433.413	0.101	-1.121	-0.009
50	7	N59	-2307.78	-188.968	-2128.039	0.143	0.759	-0.166
51	7	N93A	-0.051	320.682	-434.995	0	0	0
52	7	N94A	-1681.333	1387.883	939.185	0	0	0
53	7	N95	1744.865	1439.357	975.576	0	0	0
54	7	Totals:	-0.016	3194.386	-4734.697			
55	7	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
56	8	N3	329.27	270.034	-1302.242	0.161	-0.114	-0.189
57	8	N30A	3445.335	-150.633	-2482.029	0.177	-0.274	0.05
58	8	N59	-746.42	-77.662	-1545.099	0.18	1.355	-0.012
59	8	N93A	9.14	405.686	-560.594	0	0	0
60	8	N94A	-2028.039	1676.172	1160.035	0	0	0
61	8	N95	1310.339	1070.792	712.023	0	0	0
62	8	Totals:	2319.625	3194.389	-4017.906			
63	8	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
64	9	N3	918.446	201.918	-234.155	0.117	-1.093	-0.093
65	9	N30A	3830.148	-209.474	-2393.264	0.232	-0.324	0.069
66	9	N59	493.253	47.43	-447.791	0.127	0.65	0.106
67	9	N93A	27.656	664.014	-928.471	0	0	0
68	9	N94A	-2170.506	1792.465	1253.653	0	0	0
69	9	N95	859.972	698.04	464.204	0	0	0
70	9	Totals:	3958.969	3194.392	-2285.825			
71	9	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
72	10	N3	1245.424	86.645	1449.273	0.039	-1.708	-0.006

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
73	10	N30A	3782.704	-210.622	-1958.839	0.235	-0.222	0.064
74	10	N59	1116.322	154.494	451.231	0.049	-0.151	0.188
75	10	N93A	38.295	1027.658	-1429.45	0	0	0
76	10	N94A	-2079.682	1725.974	1212.284	0	0	0
77	10	N95	495.752	410.245	275.489	0	0	0
78	10	Totals:	4598.815	3194.394	-0.012			
79	10	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
80	11	N3	910.896	-52.703	3172.88	-0.054	-0.942	0.016
81	11	N30A	3259.558	-150.44	-864.162	0.152	0.91	0.074
82	11	N59	1321.872	216.852	765.207	0.01	0.028	0.238
83	11	N93A	27.595	1418.423	-1969.108	0	0	0
84	11	N94A	-1775.804	1486.781	1056.922	0	0	0
85	11	N95	321.057	275.481	185.364	0	0	0
86	11	Totals:	4065.174	3194.395	2347.103			
87	11	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
88	12	N3	348.425	-175.974	4291.192	-0.145	0.02	0.031
89	12	N30A	1932.87	-35.183	365.992	0.023	1.735	0.078
90	12	N59	1019.327	215.943	825.648	-0.034	0.125	0.21
91	12	N93A	10.11	1730.283	-2413.331	0	0	0
92	12	N94A	-1330.759	1118.509	812.392	0	0	0
93	12	N95	400.991	340.817	242.176	0	0	0
94	12	Totals:	2380.964	3194.395	4124.07			
95	12	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
96	13	N3	7.985	50.95	5074.845	-0.081	0.053	-0.148
97	13	N30A	3024.078	179.184	-1443.505	-0.026	0.332	-0.009
98	13	N59	-2866.141	15.667	-1382.44	0.009	-0.25	-0.051
99	13	N93A	0.392	3227.91	-4521.617	0	0	0
100	13	N94A	-3338.496	2756.807	1936.594	0	0	0
101	13	N95	3172.184	2622	1841.008	0	0	0
102	13	Totals:	0.003	8852.517	1504.885			
103	13	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
104	14	N3	-110.077	52.55	4960.815	-0.084	0.11	-0.155
105	14	N30A	2648.318	213.747	-1407.148	-0.045	0.091	-0.032
106	14	N59	-3362.407	-18.663	-1569.019	-0.003	-0.424	-0.099
107	14	N93A	-2.655	3201.453	-4482.623	0	0	0
108	14	N94A	-3228.7	2665.682	1867.341	0	0	0
109	14	N95	3309.149	2737.746	1923.444	0	0	0
110	14	Totals:	-746.371	8852.516	1292.808			
111	14	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
112	15	N3	-293.985	73.295	4612.091	-0.071	0.407	-0.184
113	15	N30A	2508.886	231.888	-1431.383	-0.058	0.084	-0.041
114	15	N59	-3766.675	-57.783	-1908.183	0.014	-0.228	-0.135
115	15	N93A	-7.532	3120.098	-4366.787	0	0	0
116	15	N94A	-3184.676	2629.632	1838.328	0	0	0
117	15	N95	3451.307	2855.385	2002.293	0	0	0
118	15	Totals:	-1292.675	8852.515	746.358			
119	15	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
120	16	N3	-395.843	108.735	4071.162	-0.046	0.593	-0.212
121	16	N30A	2530.878	231.673	-1578.556	-0.054	0.032	-0.043
122	16	N59	-3978.884	-90.783	-2197.725	0.039	0.012	-0.16
123	16	N93A	-10.448	3005.791	-4208.973	0	0	0
124	16	N94A	-3214.837	2651.944	1852.256	0	0	0
125	16	N95	3564.496	2945.156	2061.839	0	0	0
126	16	Totals:	-1504.638	8852.515	0.003			
127	16	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
128	17	N3	-298.44	151.594	3521.736	-0.017	0.384	-0.22
129	17	N30A	2724.095	213.07	-1916.929	-0.023	-0.29	-0.047
130	17	N59	-4039.073	-109.568	-2313.576	0.053	-0.004	-0.174
131	17	N93A	-7.829	2883.818	-4040.26	0	0	0
132	17	N94A	-3310.221	2727.319	1901.647	0	0	0
133	17	N95	3617.94	2986.281	2088.997	0	0	0
134	17	Totals:	-1313.528	8852.514	-758.385			
135	17	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
136	18	N3	-126.31	189.302	3161.999	0.011	0.106	-0.224
137	18	N30A	3148.785	178.135	-2286.929	0.019	-0.513	-0.045
138	18	N59	-3922.732	-109.551	-2336.292	0.068	0.002	-0.164
139	18	N93A	-2.908	2786.691	-3902	0	0	0
140	18	N94A	-3448.624	2841.931	1978.384	0	0	0
141	18	N95	3593.365	2966.006	2071.181	0	0	0
142	18	Totals:	-758.425	8852.515	-1313.658			
143	18	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
144	19	N3	-15.303	209.519	3049.547	0.03	0.069	-0.232
145	19	N30A	3675.619	136.347	-2481.501	0.05	-0.339	-0.027
146	19	N59	-3564.387	-90.005	-2306.308	0.093	0.263	-0.126
147	19	N93A	0.151	2745.783	-3842.452	0	0	0
148	19	N94A	-3593.897	2964.392	2065.579	0	0	0
149	19	N95	3497.809	2886.48	2010.248	0	0	0
150	19	Totals:	-0.008	8852.515	-1504.887			
151	19	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
152	20	N3	102.995	207.903	3163.539	0.033	0.012	-0.226
153	20	N30A	4051.331	101.846	-2517.616	0.069	-0.097	-0.005
154	20	N59	-3068.27	-55.723	-2119.863	0.105	0.437	-0.078
155	20	N93A	3.167	2772.245	-3881.444	0	0	0
156	20	N94A	-3703.717	3055.502	2134.785	0	0	0
157	20	N95	3360.86	2770.745	1927.789	0	0	0
158	20	Totals:	746.366	8852.516	-1292.811			
159	20	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
160	21	N3	286.737	187.109	3512.441	0.019	-0.285	-0.196
161	21	N30A	4190.631	83.743	-2493.602	0.082	-0.091	0.004
162	21	N59	-2663.818	-16.594	-1780.664	0.089	0.241	-0.041
163	21	N93A	8.12	2853.619	-3997.287	0	0	0
164	21	N94A	-3747.714	3091.542	2163.838	0	0	0
165	21	N95	3218.715	2653.098	1848.913	0	0	0
166	21	Totals:	1292.67	8852.517	-746.36			
167	21	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
168	22	N3	388.604	151.627	4053.508	-0.005	-0.472	-0.169
169	22	N30A	4168.449	83.938	-2346.556	0.078	-0.038	0.006
170	22	N59	-2451.334	16.472	-1491.236	0.064	0.002	-0.017
171	22	N93A	10.99	2967.924	-4155.087	0	0	0
172	22	N94A	-3717.559	3069.25	2149.942	0	0	0
173	22	N95	3105.483	2563.308	1789.424	0	0	0
174	22	Totals:	1504.633	8852.518	-0.005			
175	22	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
176	23	N3	291.159	108.769	4602.758	-0.034	-0.262	-0.161
177	23	N30A	3975.533	102.493	-2008.095	0.047	0.283	0.01
178	23	N59	-2391.288	35.304	-1375.164	0.05	0.017	-0.003
179	23	N93A	8.324	3089.894	-4323.804	0	0	0
180	23	N94A	-3622.243	2993.903	2100.477	0	0	0
181	23	N95	3052.038	2522.155	1762.21	0	0	0
182	23	Totals:	1313.523	8852.518	758.383			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
183	23	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
184	24	N3	118.78	71.121	4962.343	-0.063	0.016	-0.157
185	24	N30A	3551.036	137.386	-1638.175	0.005	0.506	0.009
186	24	N59	-2507.709	35.269	-1352.176	0.034	0.011	-0.012
187	24	N93A	3.482	3187.018	-4462.079	0	0	0
188	24	N94A	-3483.81	2879.286	2023.753	0	0	0
189	24	N95	3076.641	2542.439	1779.99	0	0	0
190	24	Totals:	758.42	8852.518	1313.656			
191	24	COG (ft):	X: -0.135	Y: 0.988	Z: -0.113			
192	25	N3	-2.234	-4.714	1635.466	-0.045	0.041	-0.089
193	25	N30A	1176.219	61.041	-624.474	-0.07	0.079	0.027
194	25	N59	-2334.059	-259.553	-1289.265	-0.246	-0.061	-0.483
195	25	N93A	0.072	1115.513	-1553.725	0	0	0
196	25	N94A	-1259.618	1045.237	729.203	0	0	0
197	25	N95	2419.627	1986.852	1398.899	0	0	0
198	25	Totals:	0.007	3944.376	296.104			
199	25	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
200	26	N3	-24.126	-4.385	1613.514	-0.045	0.047	-0.09
201	26	N30A	1102.484	67.983	-621.345	-0.075	0.026	0.024
202	26	N59	-2431.742	-266.479	-1325.706	-0.248	-0.098	-0.493
203	26	N93A	-0.519	1110.198	-1545.868	0	0	0
204	26	N94A	-1237.944	1027.201	715.372	0	0	0
205	26	N95	2446.78	2009.858	1415.314	0	0	0
206	26	Totals:	-145.067	3944.376	251.281			
207	26	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
208	27	N3	-61.035	-0.142	1546.775	-0.043	0.108	-0.096
209	27	N30A	1078.366	71.676	-626.968	-0.078	0.029	0.022
210	27	N59	-2509.128	-274.234	-1394.318	-0.245	-0.054	-0.5
211	27	N93A	-1.652	1094.051	-1522.868	0	0	0
212	27	N94A	-1229.004	1019.91	709.523	0	0	0
213	27	N95	2474.869	2033.114	1430.816	0	0	0
214	27	Totals:	-247.584	3944.376	142.96			
215	27	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
216	28	N3	-81.473	7.055	1441.539	-0.038	0.147	-0.101
217	28	N30A	1081.246	71.747	-654.169	-0.079	0.023	0.023
218	28	N59	-2547.94	-280.863	-1450.606	-0.24	-0.004	-0.505
219	28	N93A	-2.335	1071.31	-1491.535	0	0	0
220	28	N94A	-1234.664	1024.058	712.112	0	0	0
221	28	N95	2497.571	2051.07	1442.66	0	0	0
222	28	Totals:	-287.595	3944.376	0			
223	28	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
224	29	N3	-60.561	15.774	1333.685	-0.032	0.099	-0.102
225	29	N30A	1114.049	67.982	-722.568	-0.073	-0.048	0.022
226	29	N59	-2560.859	-284.731	-1470.131	-0.237	-0.015	-0.508
227	29	N93A	-1.679	1046.872	-1457.79	0	0	0
228	29	N94A	-1253.671	1039.008	721.785	0	0	0
229	29	N95	2508.5	2059.471	1448.231	0	0	0
230	29	Totals:	-254.222	3944.376	-146.788			
231	29	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
232	30	N3	-25.488	23.504	1263.699	-0.026	0.039	-0.103
233	30	N30A	1197.055	60.775	-799.519	-0.065	-0.1	0.022
234	30	N59	-2541.969	-284.678	-1473.774	-0.235	-0.021	-0.506
235	30	N93A	-0.551	1027.372	-1430.021	0	0	0
236	30	N94A	-1281.469	1062.017	737.066	0	0	0
237	30	N95	2503.522	2055.385	1444.631	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
238	30	Totals:	-148.898	3944.376	-257.918			
239	30	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
240	31	N3	-5.052	27.676	1242.665	-0.022	0.036	-0.106
241	31	N30A	1304.334	52.252	-837.465	-0.059	-0.062	0.024
242	31	N59	-2473.252	-280.578	-1469.933	-0.23	0.034	-0.498
243	31	N93A	0.04	1019.236	-1418.152	0	0	0
244	31	N94A	-1310.339	1086.441	754.515	0	0	0
245	31	N95	2484.275	2039.349	1432.265	0	0	0
246	31	Totals:	0.005	3944.376	-296.105			
247	31	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
248	32	N3	16.85	27.347	1264.615	-0.022	0.029	-0.105
249	32	N30A	1378.067	45.312	-840.584	-0.054	-0.009	0.028
250	32	N59	-2375.576	-273.653	-1433.498	-0.228	0.071	-0.489
251	32	N93A	0.629	1024.551	-1426.008	0	0	0
252	32	N94A	-1332.014	1104.476	768.344	0	0	0
253	32	N95	2457.123	2016.343	1415.85	0	0	0
254	32	Totals:	145.079	3944.376	-251.282			
255	32	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
256	33	N3	53.751	23.102	1331.359	-0.024	-0.032	-0.099
257	33	N30A	1402.182	41.62	-834.97	-0.05	-0.012	0.029
258	33	N59	-2298.183	-265.897	-1364.884	-0.231	0.027	-0.481
259	33	N93A	1.765	1040.698	-1449.008	0	0	0
260	33	N94A	-1340.952	1111.767	774.195	0	0	0
261	33	N95	2429.034	1993.087	1400.347	0	0	0
262	33	Totals:	247.597	3944.376	-142.961			
263	33	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
264	34	N3	74.19	15.903	1436.601	-0.029	-0.07	-0.093
265	34	N30A	1399.293	41.548	-807.774	-0.05	-0.005	0.029
266	34	N59	-2259.36	-259.266	-1308.601	-0.236	-0.023	-0.476
267	34	N93A	2.446	1063.439	-1480.341	0	0	0
268	34	N94A	-1335.293	1107.62	771.608	0	0	0
269	34	N95	2406.331	1975.131	1388.505	0	0	0
270	34	Totals:	287.607	3944.376	-0.001			
271	34	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
272	35	N3	53.278	7.184	1544.447	-0.035	-0.022	-0.092
273	35	N30A	1366.502	45.312	-739.37	-0.055	0.066	0.03
274	35	N59	-2246.448	-255.396	-1289.067	-0.238	-0.012	-0.473
275	35	N93A	1.789	1087.877	-1514.086	0	0	0
276	35	N94A	-1316.288	1092.671	761.931	0	0	0
277	35	N95	2395.402	1966.728	1382.932	0	0	0
278	35	Totals:	254.234	3944.376	146.787			
279	35	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
280	36	N3	18.192	-0.544	1614.427	-0.041	0.038	-0.091
281	36	N30A	1283.503	52.517	-662.422	-0.063	0.117	0.03
282	36	N59	-2265.34	-255.45	-1285.412	-0.241	-0.006	-0.475
283	36	N93A	0.664	1107.377	-1541.856	0	0	0
284	36	N94A	-1288.489	1069.661	746.65	0	0	0
285	36	N95	2400.381	1970.815	1386.53	0	0	0
286	36	Totals:	148.911	3944.376	257.917			
287	36	COG (ft):	X: 0.924	Y: 0.743	Z: 0.744			
288	37	N3	3.446	-14.475	1646.105	-0.054	0.031	-0.065
289	37	N30A	1614.915	85.972	-866.011	-0.442	0.165	0.222
290	37	N59	-1560.944	46.727	-832.121	-0.435	-0.127	-0.236
291	37	N93A	0.068	1114.334	-1552.049	0	0	0
292	37	N94A	-1671.063	1379.208	966.614	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
293	37	N95	1613.588	1332.597	933.566	0	0	0
294	37	Totals:	0.01	3944.362	296.104			
295	37	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
296	38	N3	-18.434	-14.144	1624.173	-0.055	0.037	-0.066
297	38	N30A	1541.169	92.923	-862.915	-0.447	0.112	0.219
298	38	N59	-1658.587	39.795	-868.571	-0.438	-0.165	-0.246
299	38	N93A	-0.523	1109.021	-1544.195	0	0	0
300	38	N94A	-1649.388	1361.18	952.803	0	0	0
301	38	N95	1640.698	1355.586	949.986	0	0	0
302	38	Totals:	-145.064	3944.362	251.281			
303	38	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
304	39	N3	-55.336	-9.899	1557.479	-0.052	0.099	-0.072
305	39	N30A	1517.022	96.639	-868.53	-0.451	0.115	0.217
306	39	N59	-1735.948	32.06	-937.144	-0.434	-0.12	-0.253
307	39	N93A	-1.656	1092.883	-1521.207	0	0	0
308	39	N94A	-1640.424	1353.867	946.929	0	0	0
309	39	N95	1668.759	1378.812	965.433	0	0	0
310	39	Totals:	-247.582	3944.362	142.96			
311	39	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
312	40	N3	-75.77	-2.701	1452.281	-0.047	0.137	-0.077
313	40	N30A	1519.864	96.742	-895.715	-0.451	0.109	0.218
314	40	N59	-1774.742	25.452	-993.397	-0.429	-0.07	-0.258
315	40	N93A	-2.34	1070.148	-1489.884	0	0	0
316	40	N94A	-1646.044	1357.979	949.488	0	0	0
317	40	N95	1691.439	1396.741	977.228	0	0	0
318	40	Totals:	-287.592	3944.362	0.001			
319	40	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
320	41	N3	-54.855	6.016	1344.463	-0.041	0.089	-0.079
321	41	N30A	1552.593	93.042	-964.111	-0.446	0.038	0.217
322	41	N59	-1787.605	21.6	-1012.926	-0.427	-0.082	-0.261
323	41	N93A	-1.684	1045.718	-1456.149	0	0	0
324	41	N94A	-1664.98	1372.878	959.143	0	0	0
325	41	N95	1702.311	1405.108	982.792	0	0	0
326	41	Totals:	-254.22	3944.362	-146.787			
327	41	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
328	42	N3	-19.783	13.742	1274.517	-0.036	0.029	-0.08
329	42	N30A	1635.51	85.912	-1041.04	-0.438	-0.014	0.217
330	42	N59	-1768.65	21.678	-1016.568	-0.424	-0.088	-0.26
331	42	N93A	-0.555	1026.231	-1428.399	0	0	0
332	42	N94A	-1692.691	1395.82	974.393	0	0	0
333	42	N95	1697.273	1400.979	979.18	0	0	0
334	42	Totals:	-148.896	3944.362	-257.917			
335	42	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
336	43	N3	0.641	17.908	1253.503	-0.032	0.026	-0.082
337	43	N30A	1742.744	77.426	-1078.936	-0.431	0.024	0.219
338	43	N59	-1699.929	25.806	-1012.696	-0.419	-0.033	-0.252
339	43	N93A	0.036	1018.104	-1416.543	0	0	0
340	43	N94A	-1721.51	1420.193	991.794	0	0	0
341	43	N95	1678.026	1384.925	966.774	0	0	0
342	43	Totals:	0.008	3944.362	-296.105			
343	43	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
344	44	N3	22.531	17.576	1275.432	-0.031	0.02	-0.081
345	44	N30A	1816.49	70.477	-1082.022	-0.426	0.077	0.223
346	44	N59	-1602.293	32.735	-976.252	-0.417	0.004	-0.242
347	44	N93A	0.625	1023.416	-1424.396	0	0	0

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
348	44	N94A	-1743.187	1438.22	1005.603	0	0	0
349	44	N95	1650.916	1361.937	950.354	0	0	0
350	44	Totals:	145.082	3944.362	-251.281			
351	44	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
352	45	N3	59.426	13.33	1342.133	-0.034	-0.041	-0.075
353	45	N30A	1840.632	66.763	-1076.417	-0.423	0.074	0.224
354	45	N59	-1524.925	40.471	-907.677	-0.42	-0.04	-0.235
355	45	N93A	1.761	1039.555	-1447.383	0	0	0
356	45	N94A	-1752.15	1445.533	1011.479	0	0	0
357	45	N95	1622.855	1338.711	934.905	0	0	0
358	45	Totals:	247.599	3944.362	-142.96			
359	45	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
360	46	N3	79.861	6.13	1447.336	-0.039	-0.08	-0.069
361	46	N30A	1837.782	66.659	-1049.236	-0.422	0.081	0.224
362	46	N59	-1486.12	47.082	-851.429	-0.425	-0.09	-0.23
363	46	N93A	2.442	1062.29	-1478.707	0	0	0
364	46	N94A	-1746.529	1441.421	1008.922	0	0	0
365	46	N95	1600.174	1320.781	923.113	0	0	0
366	46	Totals:	287.61	3944.362	-0.001			
367	46	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
368	47	N3	58.945	-2.587	1555.146	-0.044	-0.032	-0.068
369	47	N30A	1805.065	70.357	-980.835	-0.428	0.152	0.225
370	47	N59	-1473.264	50.935	-831.891	-0.428	-0.079	-0.227
371	47	N93A	1.785	1086.72	-1512.441	0	0	0
372	47	N94A	-1727.596	1426.524	999.263	0	0	0
373	47	N95	1589.302	1312.413	917.546	0	0	0
374	47	Totals:	254.237	3944.362	146.787			
375	47	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
376	48	N3	23.862	-10.311	1625.086	-0.05	0.028	-0.067
377	48	N30A	1722.156	77.486	-903.909	-0.436	0.203	0.225
378	48	N59	-1492.221	50.857	-828.236	-0.43	-0.073	-0.229
379	48	N93A	0.66	1106.207	-1540.193	0	0	0
380	48	N94A	-1699.884	1403.581	984.013	0	0	0
381	48	N95	1594.341	1316.542	921.156	0	0	0
382	48	Totals:	148.913	3944.362	257.917			
383	48	COG (ft):	X: -0.098	Y: 0.743	Z: 0.744			
384	49	N3	2.819	16.174	1460.175	-0.029	0.017	-0.056
385	49	N30A	1920.478	-136.692	-1120.389	-0.07	0.002	0.26
386	49	N59	-1161.504	-8.319	-668.914	0.005	0.011	-0.035
387	49	N93A	0.032	1078.474	-1501.725	0	0	0
388	49	N94A	-1966.512	1619.077	1135.293	0	0	0
389	49	N95	1204.684	1000.672	695.56	0	0	0
390	49	Totals:	-0.004	3569.387	-0.001			
391	49	COG (ft):	X: -0.765	Y: 0.821	Z: 0.378			
392	50	N3	1.298	8.816	1469.47	-0.036	0.027	-0.071
393	50	N30A	1460.586	56.157	-851.379	-0.215	0.048	0.117
394	50	N59	-1412.463	8.284	-803.282	-0.205	-0.037	-0.142
395	50	N93A	0.047	1078.542	-1501.823	0	0	0
396	50	N94A	-1485.799	1228.851	857.745	0	0	0
397	50	N95	1436.334	1188.724	829.269	0	0	0
398	50	Totals:	0.004	3569.376	0			
399	50	COG (ft):	X: -0.108	Y: 0.821	Z: 0.378			
400	51	N3	0.639	18.557	1737.35	-0.035	0.03	-0.081
401	51	N30A	1449.576	35.625	-852.079	0.009	0.002	0.015
402	51	N59	-1393.745	-23.087	-798.26	0.02	0.008	-0.048

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
403	51	N93A	0.058	1272.68	-1772.626	0	0	0
404	51	N94A	-1488.048	1234.438	859.086	0	0	0
405	51	N95	1431.519	1188.574	826.528	0	0	0
406	51	Totals:	-0.001	3726.787	0			
407	51	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
408	52	N3	0.778	12.408	1542.269	-0.033	0.025	-0.068
409	52	N30A	1226.501	31.502	-704.983	0.005	0.02	0.014
410	52	N59	-1177.301	-17.406	-661.323	0.015	-0.007	-0.039
411	52	N93A	0.045	1101.787	-1534.325	0	0	0
412	52	N94A	-1269.596	1053.344	733.521	0	0	0
413	52	N95	1219.572	1012.754	704.701	0	0	0
414	52	Totals:	0	3194.389	79.86			
415	52	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
416	53	N3	-6.849	12.409	1535.422	-0.033	0.035	-0.069
417	53	N30A	1206.549	33.082	-699.413	0.004	0.014	0.013
418	53	N59	-1200.585	-18.96	-672.741	0.015	-0.009	-0.041
419	53	N93A	-0.229	1100.739	-1532.909	0	0	0
420	53	N94A	-1264.62	1049.079	730.415	0	0	0
421	53	N95	1225.806	1018.041	708.385	0	0	0
422	53	Totals:	-39.929	3194.389	69.159			
423	53	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
424	54	N3	-12.491	13.351	1516.163	-0.032	0.042	-0.07
425	54	N30A	1196.211	33.985	-702.124	0.004	0.005	0.012
426	54	N59	-1222.262	-20.732	-687.227	0.015	-0.008	-0.043
427	54	N93A	-0.431	1097.042	-1527.855	0	0	0
428	54	N94A	-1262.535	1047.222	728.894	0	0	0
429	54	N95	1232.351	1023.522	712.079	0	0	0
430	54	Totals:	-69.157	3194.389	39.93			
431	54	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
432	55	N3	-14.638	14.981	1489.649	-0.031	0.044	-0.071
433	55	N30A	1198.256	33.97	-712.388	0.005	-0.005	0.011
434	55	N59	-1236.528	-22.246	-700.901	0.016	-0.002	-0.044
435	55	N93A	-0.505	1091.686	-1520.517	0	0	0
436	55	N94A	-1263.899	1048.27	729.365	0	0	0
437	55	N95	1237.456	1027.728	714.793	0	0	0
438	55	Totals:	-79.858	3194.389	0			
439	55	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
440	56	N3	-12.713	16.864	1462.986	-0.029	0.042	-0.072
441	56	N30A	1212.14	33.04	-727.458	0.006	-0.013	0.011
442	56	N59	-1239.556	-23.098	-710.097	0.017	0.006	-0.045
443	56	N93A	-0.433	1086.107	-1512.862	0	0	0
444	56	N94A	-1268.346	1051.944	731.701	0	0	0
445	56	N95	1239.751	1029.532	715.799	0	0	0
446	56	Totals:	-69.158	3194.389	-39.931			
447	56	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
448	57	N3	-7.234	18.495	1443.319	-0.028	0.035	-0.072
449	57	N30A	1234.138	31.445	-743.292	0.008	-0.017	0.012
450	57	N59	-1230.538	-23.058	-712.353	0.018	0.014	-0.044
451	57	N93A	-0.233	1081.799	-1506.94	0	0	0
452	57	N94A	-1274.685	1057.257	735.277	0	0	0
453	57	N95	1238.622	1028.451	714.829	0	0	0
454	57	Totals:	-39.93	3194.389	-69.16			
455	57	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
456	58	N3	0.333	19.436	1435.915	-0.027	0.025	-0.072
457	58	N30A	1258.36	29.612	-755.652	0.009	-0.016	0.013

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
458	58	N59	-1211.888	-22.139	-707.063	0.019	0.02	-0.043
459	58	N93A	0.041	1079.917	-1504.338	0	0	0
460	58	N94A	-1281.218	1062.788	739.135	0	0	0
461	58	N95	1234.372	1024.775	712.142	0	0	0
462	58	Totals:	-0.001	3194.389	-79.861			
463	58	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
464	59	N3	7.96	19.435	1442.762	-0.027	0.016	-0.071
465	59	N30A	1278.312	28.033	-761.222	0.01	-0.01	0.014
466	59	N59	-1188.604	-20.585	-695.645	0.019	0.023	-0.041
467	59	N93A	0.315	1080.966	-1505.755	0	0	0
468	59	N94A	-1286.193	1067.053	742.241	0	0	0
469	59	N95	1228.138	1019.487	708.458	0	0	0
470	59	Totals:	39.928	3194.389	-69.16			
471	59	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
472	60	N3	13.602	18.493	1462.021	-0.028	0.009	-0.07
473	60	N30A	1288.65	27.129	-758.511	0.011	-0.001	0.014
474	60	N59	-1166.927	-18.813	-681.159	0.019	0.021	-0.039
475	60	N93A	0.517	1084.663	-1510.808	0	0	0
476	60	N94A	-1288.278	1068.91	743.762	0	0	0
477	60	N95	1221.593	1014.006	704.764	0	0	0
478	60	Totals:	69.156	3194.389	-39.931			
479	60	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
480	61	N3	15.749	16.863	1488.535	-0.029	0.006	-0.068
481	61	N30A	1286.604	27.144	-748.247	0.01	0.009	0.015
482	61	N59	-1152.661	-17.298	-667.485	0.018	0.015	-0.037
483	61	N93A	0.591	1090.019	-1518.146	0	0	0
484	61	N94A	-1286.915	1067.862	743.292	0	0	0
485	61	N95	1216.488	1009.8	702.05	0	0	0
486	61	Totals:	79.858	3194.389	-0.001			
487	61	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
488	62	N3	13.824	14.98	1515.199	-0.03	0.009	-0.068
489	62	N30A	1272.721	28.074	-733.177	0.009	0.017	0.015
490	62	N59	-1149.633	-16.447	-658.288	0.017	0.007	-0.037
491	62	N93A	0.519	1095.598	-1525.802	0	0	0
492	62	N94A	-1282.467	1064.188	740.955	0	0	0
493	62	N95	1214.193	1007.996	701.044	0	0	0
494	62	Totals:	69.157	3194.389	39.93			
495	62	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
496	63	N3	8.345	13.349	1534.865	-0.032	0.016	-0.067
497	63	N30A	1250.723	29.669	-717.343	0.007	0.021	0.014
498	63	N59	-1158.651	-16.486	-656.033	0.016	-0.001	-0.038
499	63	N93A	0.319	1099.905	-1531.723	0	0	0
500	63	N94A	-1276.129	1058.875	737.379	0	0	0
501	63	N95	1215.322	1009.077	702.014	0	0	0
502	63	Totals:	39.929	3194.389	69.159			
503	63	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
504	64	N3	0.649	8.437	1169.922	-0.025	0.019	-0.05
505	64	N30A	915.821	23.891	-522.363	0.004	0.02	0.01
506	64	N59	-878.604	-12.441	-490.241	0.011	-0.009	-0.029
507	64	N93A	0.026	829.06	-1154.425	0	0	0
508	64	N94A	-950.67	788.799	549.405	0	0	0
509	64	N95	912.777	758.046	527.563	0	0	0
510	64	Totals:	0	2395.792	79.86			
511	64	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
512	65	N3	-6.978	8.44	1163.074	-0.025	0.029	-0.051

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
513	65	N30A	895.869	25.474	-516.794	0.003	0.014	0.009
514	65	N59	-901.887	-13.999	-501.659	0.01	-0.011	-0.031
515	65	N93A	-0.25	828.01	-1153.008	0	0	0
516	65	N94A	-945.694	784.532	546.298	0	0	0
517	65	N95	919.011	763.334	531.248	0	0	0
518	65	Totals:	-39.929	2395.792	69.159			
519	65	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
520	66	N3	-12.621	9.385	1143.815	-0.024	0.036	-0.052
521	66	N30A	885.532	26.378	-519.505	0.002	0.005	0.009
522	66	N59	-923.563	-15.775	-516.144	0.011	-0.009	-0.033
523	66	N93A	-0.453	824.312	-1147.953	0	0	0
524	66	N94A	-943.61	782.675	544.775	0	0	0
525	66	N95	925.557	768.816	534.941	0	0	0
526	66	Totals:	-69.157	2395.792	39.93			
527	66	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
528	67	N3	-14.769	11.021	1117.301	-0.023	0.038	-0.054
529	67	N30A	887.578	26.361	-529.77	0.003	-0.005	0.008
530	67	N59	-937.828	-17.292	-529.817	0.012	-0.004	-0.034
531	67	N93A	-0.528	818.954	-1140.613	0	0	0
532	67	N94A	-944.975	783.724	545.245	0	0	0
533	67	N95	930.663	773.023	537.655	0	0	0
534	67	Totals:	-79.858	2395.792	0			
535	67	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
536	68	N3	-12.845	12.908	1090.638	-0.022	0.035	-0.054
537	68	N30A	901.463	25.428	-544.84	0.004	-0.013	0.008
538	68	N59	-940.855	-18.144	-539.013	0.013	0.004	-0.035
539	68	N93A	-0.455	813.373	-1132.956	0	0	0
540	68	N94A	-949.424	787.399	547.581	0	0	0
541	68	N95	932.959	774.828	538.66	0	0	0
542	68	Totals:	-69.157	2395.792	-39.93			
543	68	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
544	69	N3	-7.365	14.541	1070.972	-0.02	0.028	-0.055
545	69	N30A	923.46	23.828	-560.674	0.006	-0.017	0.009
546	69	N59	-931.837	-18.103	-541.27	0.014	0.013	-0.034
547	69	N93A	-0.253	809.065	-1127.034	0	0	0
548	69	N94A	-955.765	792.715	551.157	0	0	0
549	69	N95	931.831	773.747	537.689	0	0	0
550	69	Totals:	-39.93	2395.792	-69.16			
551	69	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
552	70	N3	0.202	15.482	1063.568	-0.019	0.019	-0.054
553	70	N30A	947.682	21.991	-573.033	0.008	-0.016	0.009
554	70	N59	-913.189	-17.181	-535.981	0.015	0.019	-0.032
555	70	N93A	0.022	807.183	-1124.432	0	0	0
556	70	N94A	-962.299	798.247	555.016	0	0	0
557	70	N95	927.581	770.069	535.001	0	0	0
558	70	Totals:	-0.001	2395.792	-79.861			
559	70	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
560	71	N3	7.83	15.48	1070.416	-0.019	0.009	-0.053
561	71	N30A	967.633	20.409	-578.602	0.009	-0.011	0.01
562	71	N59	-889.905	-15.622	-524.564	0.015	0.021	-0.03
563	71	N93A	0.299	808.232	-1125.85	0	0	0
564	71	N94A	-967.274	802.513	558.123	0	0	0
565	71	N95	921.347	764.781	531.316	0	0	0
566	71	Totals:	39.928	2395.792	-69.16			
567	71	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			

Node Reactions (Continued)

	LC	Node Label	X [lb]	Y [lb]	Z [lb]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
568	72	N3	13.473	14.534	1089.676	-0.02	0.002	-0.052
569	72	N30A	977.97	19.505	-575.891	0.009	-0.002	0.011
570	72	N59	-868.229	-13.847	-510.079	0.014	0.019	-0.028
571	72	N93A	0.501	811.931	-1130.905	0	0	0
572	72	N94A	-969.359	804.371	559.646	0	0	0
573	72	N95	914.801	759.299	527.623	0	0	0
574	72	Totals:	69.157	2395.792	-39.931			
575	72	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
576	73	N3	15.621	12.898	1116.191	-0.021	0	-0.051
577	73	N30A	975.924	19.521	-565.626	0.008	0.008	0.012
578	73	N59	-853.964	-12.33	-496.406	0.014	0.014	-0.027
579	73	N93A	0.576	817.288	-1138.244	0	0	0
580	73	N94A	-967.994	803.322	559.176	0	0	0
581	73	N95	909.695	755.092	524.909	0	0	0
582	73	Totals:	79.858	2395.792	-0.001			
583	73	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
584	74	N3	13.696	11.011	1142.853	-0.023	0.002	-0.05
585	74	N30A	962.04	20.455	-550.556	0.007	0.016	0.012
586	74	N59	-850.937	-11.477	-487.209	0.012	0.006	-0.027
587	74	N93A	0.503	822.869	-1145.902	0	0	0
588	74	N94A	-963.544	799.647	556.84	0	0	0
589	74	N95	907.399	753.287	523.903	0	0	0
590	74	Totals:	69.157	2395.792	39.93			
591	74	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			
592	75	N3	8.217	9.379	1162.519	-0.024	0.009	-0.05
593	75	N30A	940.042	22.054	-534.722	0.005	0.021	0.011
594	75	N59	-859.955	-11.518	-484.953	0.011	-0.003	-0.027
595	75	N93A	0.301	827.178	-1151.824	0	0	0
596	75	N94A	-957.204	794.331	553.264	0	0	0
597	75	N95	908.527	754.368	524.875	0	0	0
598	75	Totals:	39.929	2395.792	69.159			
599	75	COG (ft):	X: -0.121	Y: 0.918	Z: -0.074			

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	N3	max	1245.424	10	275.397	7	5074.845	13	0.161	8	1.758	4	0.066	1
1		min	-1243.897	4	-242.425	1	-1653.011	7	-0.219	2	-1.708	10	-0.232	19
2	N30A	max	4190.631	21	272.629	4	1024.479	2	0.235	10	1.735	12	0.26	49
3		min	-1348.583	3	-210.622	10	-2517.616	20	-0.451	40	-1.732	6	-0.052	6
4	N59	max	1321.872	11	216.852	11	825.648	12	0.18	8	1.355	8	0.238	11
5		min	-4039.073	17	-284.731	29	-2336.292	18	-0.438	38	-1.342	2	-0.508	29
6	N93A	max	38.295	10	3227.91	13	-434.995	7	0	75	0	75	0	75
7		min	-38.037	4	320.682	7	-4521.617	13	0	1	0	1	0	1
8	N94A	max	-379.47	3	3091.542	21	2163.838	21	0	75	0	75	0	75
9		min	-3747.714	21	322.882	3	218.984	3	0	1	0	1	0	1
10	N95	max	3617.94	17	2986.281	17	2088.997	17	0	75	0	75	0	75
11		min	321.057	11	275.481	11	185.364	11	0	1	0	1	0	1
12	Totals:	max	4598.815	10	8852.518	23	4734.696	1						
13		min	-4598.816	4	2395.792	68	-4734.697	7						

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

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
0	M4	HSS4X4X4	0.163	3.783	13	0.07	3.837	y	15	124657.752	139518	16.181	16.181	1.739	H1-1b	
1	M10	L3X3X3	0.565	2.375	23	0.334	0.223	z	8	26973.922	35316	1.32	2.833	1.5	H2-1	
2	M43	L3X3X3	0.598	0	20	0.328	2.152	z	6	26973.922	35316	1.32	2.833	1.5	H2-1	
3	M46	PL1/2X6	0.251	0.516	1	0.3	0.516	y	22	66009.234	97200	1.012	12.15	1.236	H1-1b	
4	M51B	L2X2X3	0.247	4.162	8	0.03	0	y	20	9823.122	23392.8	0.558	1.076	1.144	H2-1	
5	M52B	L2X2X3	0.256	0	6	0.031	4.162	y	19	9823.122	23392.8	0.558	1.075	1.144	H2-1	
6	M76	PL3/8X6	0.257	0	4	0.216	0	y	21	70677.939	72900	0.57	9.113	2.259	H1-1b	
7	M77	PL3/8X6	0.154	0.167	8	0.102	0	y	24	71601.728	72900	0.57	9.113	1.057	H1-1b	
8	M80	PL1/2X6	0.083	0.112	1	0.192	0	y	24	96757.507	97200	1.012	12.15	1.182	H1-1b	
9	M84	PL3/8X6	0.314	0	4	0.236	0	y	19	70677.939	72900	0.57	9.113	1.273	H1-1b	
10	M85	PL3/8X6	0.149	0	4	0.111	0	y	20	71601.728	72900	0.57	9.113	1.1	H1-1b	
11	M91	PL1/2X6	0.081	0.112	1	0.258	0	y	14	96757.507	97200	1.012	12.15	1.247	H1-1b	
12	M25	HSS4X4X4	0.155	3.783	21	0.059	3.837	y	23	124657.752	139518	16.181	16.181	1.741	H1-1b	
13	M26	L3X3X3	0.603	2.375	20	0.329	0.223	z	4	26973.922	35316	1.32	2.833	1.5	H2-1	
14	M27	L3X3X3	0.571	0	16	0.336	2.152	z	2	26973.922	35316	1.32	2.833	1.5	H2-1	
15	M28	PL1/2X6	0.251	0.516	9	0.286	0.516	y	18	66009.234	97200	1.012	12.15	1.21	H1-1b	
16	M31	L2X2X3	0.249	4.162	4	0.031	0	y	16	9823.122	23392.8	0.558	1.075	1.144	H2-1	
17	M32	L2X2X3	0.261	0	8	0.03	4.162	y	15	9823.122	23392.8	0.558	1.102	1.273	H2-1	
18	M36	PL3/8X6	0.28	0	12	0.232	0	y	17	70677.939	72900	0.57	9.113	2.246	H1-1b	
19	M37	PL3/8X6	0.158	0.167	4	0.11	0	y	21	71601.728	72900	0.57	9.113	1.059	H1-1b	
20	M39	PL1/2X6	0.085	0.112	9	0.2	0	y	20	96757.507	97200	1.012	12.15	1.2	H1-1b	
21	M41	PL3/8X6	0.298	0	12	0.226	0	y	15	70677.939	72900	0.57	9.113	1.275	H1-1b	
22	M42	PL3/8X6	0.149	0.167	2	0.105	0	y	16	71601.728	72900	0.57	9.113	1.073	H1-1b	
23	M44	PL1/2X6	0.076	0.112	9	0.226	0	y	22	96757.507	97200	1.012	12.15	1.22	H1-1b	
24	M49	HSS4X4X4	0.151	3.783	17	0.068	3.837	y	27	124657.752	139518	16.181	16.181	1.746	H1-1b	
25	M50A	L3X3X3	0.573	2.375	16	0.341	0.223	z	12	26973.922	35316	1.32	2.833	1.5	H2-1	
26	M51C	L3X3X3	0.535	0	24	0.306	2.152	z	10	26973.922	35316	1.32	2.833	1.5	H2-1	
27	M52A	PL1/2X6	0.24	0.516	5	0.275	0.516	y	14	66009.234	97200	1.012	12.15	1.22	H1-1b	
28	M55	L2X2X3	0.255	4.162	12	0.03	0	y	24	9823.122	23392.8	0.558	1.076	1.144	H2-1	
29	M56	L2X2X3	0.242	0	4	0.029	4.162	y	23	9823.122	23392.8	0.558	1.099	1.256	H2-1	
30	M60	PL3/8X6	0.235	0	8	0.217	0	y	13	70677.939	72900	0.57	9.113	2.216	H1-1b	
31	M61	PL3/8X6	0.161	0.167	12	0.103	0	y	17	71601.728	72900	0.57	9.113	1.053	H1-1b	
32	M63	PL1/2X6	0.08	0.112	5	0.237	0	y	28	96757.507	97200	1.012	12.15	1.189	H1-1b	
33	M65	PL3/8X6	0.242	0	8	0.209	0	y	24	70677.939	72900	0.57	9.113	1.259	H1-1b	
34	M66	PL3/8X6	0.144	0.167	10	0.096	0	y	24	71601.728	72900	0.57	9.113	1.073	H1-1b	
35	M68	PL1/2X6	0.077	0.112	5	0.216	0	y	18	96757.507	97200	1.012	12.15	1.244	H1-1b	
36	M73	PIPE 3.0	0.169	6.25	40	0.069	1.042		13	28250.554	65205	5.749	5.749	1	H1-1b	
37	M74	PIPE 3.0	0.156	6.25	24	0.065	1.042		21	28250.554	65205	5.749	5.749	1	H1-1b	
38	M75	PIPE 3.0	0.17	6.25	20	0.069	1.042		17	28250.554	65205	5.749	5.749	1	H1-1b	
39	M76A	LL2.5X2.5X4	0.091	4.635	21	0.002	4.635	y	19	58442.94	76950	4.54	3.402	1	H1-1b*	
40	M77A	LL2.5X2.5X4	0.088	4.635	17	0.002	4.635	y	19	58442.94	76950	4.54	3.402	1	H1-1b*	
41	M78	LL2.5X2.5X4	0.095	4.635	13	0.002	4.635	y	23	58442.94	76950	4.54	3.402	1	H1-1b*	
42	MP1A	PIPE 2.0	0.333	4.188	16	0.107	1.438		2	20866.733	32130	1.872	1.872	1	H1-1b	
43	MP2A	PIPE 2.0	0.336	4.062	4	0.071	3.438		5	20866.733	32130	1.872	1.872	1	H1-1b	
44	MP3A	PIPE 2.0	0.291	4.062	10	0.077	4.062		1	20866.733	32130	1.872	1.872	1	H1-1b	
45	MP4A	PIPE 2.0	0.273	4.75	22	0.097	1.833		1	14916.096	32130	1.872	1.872	1	H1-1b	
46	MP1C	PIPE 2.0	0.343	4.188	12	0.116	1.438		10	20866.733	32130	1.872	1.872	1	H1-1b	
47	MP2C	PIPE 2.0	0.358	4.062	11	0.081	4.062		11	20866.733	32130	1.872	1.872	1	H1-1b	
48	MP3C	PIPE 2.0	0.298	4.062	6	0.089	3.438		4	20866.733	32130	1.872	1.872	1	H1-1b	
49	MP4C	PIPE 2.0	0.263	4.75	6	0.099	1.833		9	14916.096	32130	1.872	1.872	1	H1-1b	
50	MP1B	PIPE 2.0	0.366	4.188	20	0.116	1.25		11	20866.733	32130	1.872	1.872	1	H1-1b	
51	MP2B	PIPE 2.0	0.38	4.062	7	0.122	4.062		9	20866.733	32130	1.872	1.872	1	H1-1b	
52	MP3B	PIPE 2.0	0.296	5	2	0.096	3.417		12	14916.096	32130	1.872	1.872	1	H1-1b	
53	MP4B	PIPE 2.0	0.314	4.75	14	0.122	1.833		5	14916.096	32130	1.872	1.872	1	H1-1b	
54	M104	PIPE 2.0	0.101	2.5	5	0.019	2.5		5	28843.414	32130	1.872	1.872	1	H1-1b	

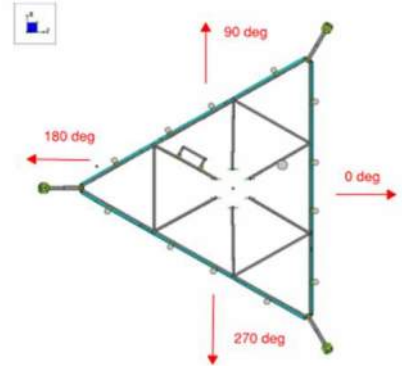
Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC Shear Check	Loc[ft]	DirLC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn	
55	M105	PIPE 2.5	0.168	11.198	4	0.087	11.328	6	14558.792	50715	3.596	3.596	1	H1-1b
56	M106	PIPE 2.5	0.19	11.198	12	0.087	1.172	4	14558.792	50715	3.596	3.596	1	H1-1b
57	M107	PIPE 2.5	0.17	11.198	8	0.111	1.172	12	14558.792	50715	3.596	3.596	1	H1-1b
58	M114	L3X3X4	0.298	2.105	11	0.03	2.105	z 12	42293.309	46656	1.688	3.756	1.5	H2-1
59	M125A	L3X3X4	0.273	2.105	7	0.028	2.105	z 8	42293.309	46656	1.688	3.756	1.5	H2-1
60	M128A	L3X3X4	0.341	0	5	0.035	2.105	z 4	42293.309	46656	1.688	3.756	1.5	H2-1
61	OVP2	PIPE 2.0	0.087	2.5	11	0.016	2.5	11	28843.414	32130	1.872	1.872	1	H1-1b

I. Mount-to-Tower Connection Check

Custom Orientation Required

Yes

[illegible]

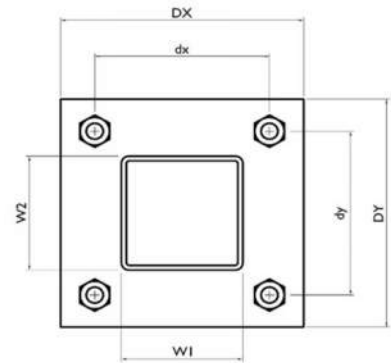
Tower Connection Bolt Checks

Yes

Bolt Orientation

Parallel

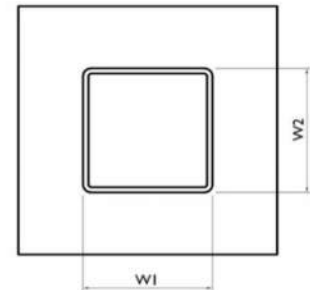
Bolt Quantity per Reaction:	4
d_x (in) (<i>Delta X of typ. bolt config. sketch</i>):	8
d_y (in) (<i>Delta Y of typ. bolt config. sketch</i>):	8
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	1.8
Required Shear Strength / bolt (kips):	0.4
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	8.6%



Tower Connection Baseplate Checks

Yes

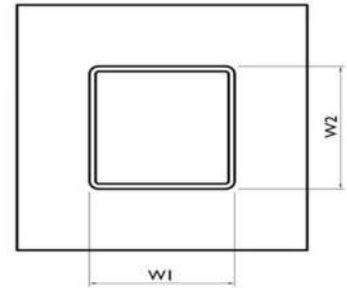
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	10
Plate Height, D_y (in):	10
W1(in):	4
W2 (in):	4
Member Thickness (in):	0.25
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.5
Length of Yield Line, L_y (in):	7.85
Bolt Eccentricity, e (in):	3.06
M_u (kip-in):	5.48
$\Phi * M_n$ (kip-in):	15.90
Plate Bending Utilization:	34.5%



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
3
4
4
16.00
21.33
21.33
85.33
2.25
2.25
0.79
4.18
18.8%





Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:

302529

Site Name:

Vernon CT 6

Location:

Vernon Rockville, Connecticut

Tenants:

AT&T Mobility, Sprint, Dish Wireless, & Verizon Wireless

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

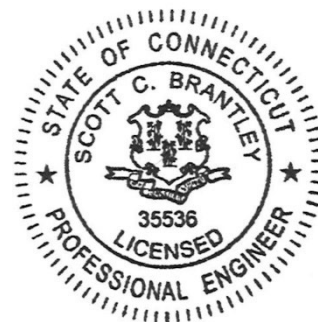
April 29th, 2024

68595 P-426449

Prepared By:

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

Approved By:





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Disclaimer Notice

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TOWER ENGINEERING PROFESSIONALS

RALIEGH, NORTH CAROLINA



Non-Ionizing Electromagnetic Radiation (NIER) Study

302529 Vernon CT 6

Vernon Rockville, 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 302529 Vernon CT 6 is located at 777 Talcotville Rd., in Vernon Rockville, Connecticut at coordinates 41.863487, -72.483298. The support structure is a 160' monopole. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are AT&T Mobility (AT&T), Dish Wireless (Dish), Sprint (Sprint), & 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 120' from the base of the tower with a height of 6' above ground level was used, beyond 120' 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.



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 302529 Vernon CT 6.RF NIER Study 8/15/23.
- 302529 Application received 8/15/23.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

SITE MITIGATION & CONTROL

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

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

COMPLIANCE DETERMINATION

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

APPENDIX 1 Site Photos



Aerial View of Site



Appendix 2.1 Antenna Inventory

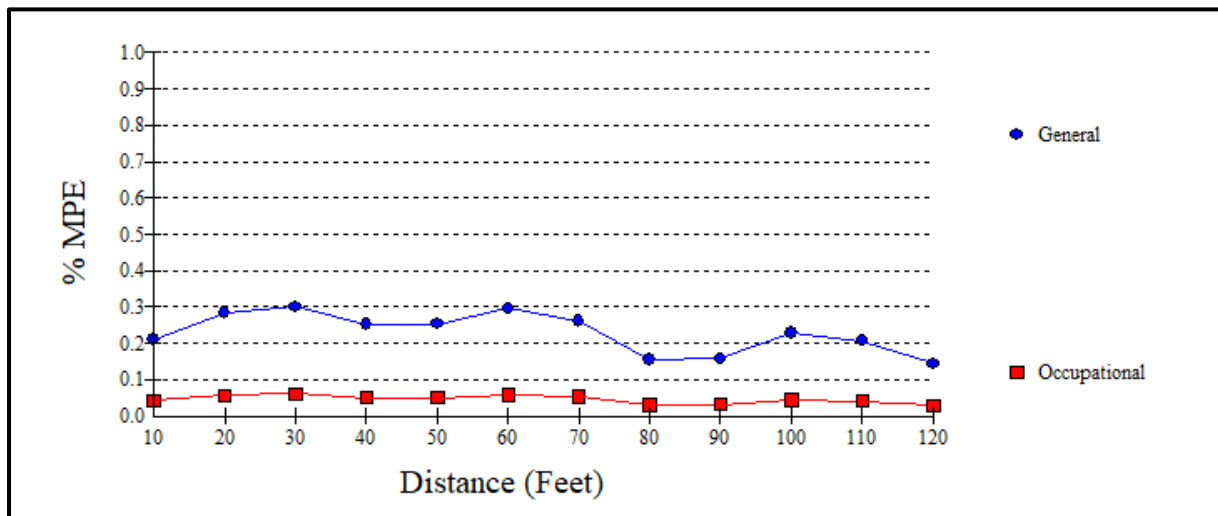
302529 Vernon CT 6							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	Verizon	CBNG	39Ghz Intigrated	39000	000	40	152
2	Verizon	CBNG	39Ghz Intigrated	39000	090	40	152
3	Verizon	CBNG	39Ghz Intigrated	39000	180	40	152
4	Verizon	CBNG	39Ghz Intigrated	39000	270	40	152
5	Verizon	Samsung	MT6407-77A	3700	050	18286	152
6	Verizon	Samsung	MT6407-77A	3700	180	18286	152
7	Verizon	Samsung	MT6407-77A	3700	290	18286	152
8	Verizon	Andrew	SBNHH 1D65-B	1900/2100	050	35085	151.4
9	Verizon	Andrew	SBNHH 1D65-B	1900/2100	180	35085	151.4
10	Verizon	Andrew	SBNHH 1D65-B	1900/2100	290	35085	151.4
11	Verizon	Andrew	SBNHH 1D65-B	1900/2100	050	35085	151.4
12	Verizon	Andrew	SBNHH 1D65-B	1900/2100	180	35085	151.4
13	Verizon	Andrew	SBNHH 1D65-B	1900/2100	290	35085	151.4
14	Verizon	Samsung	XXDWMM-CBRS	3500/3600	050	193	151.4
15	Verizon	Samsung	XXDWMM-CBRS	3500/3600	180	193	151.4
16	Verizon	Samsung	XXDWMM-CBRS	3500/3600	290	193	151.4
17	AT&T	CCI	DMP65R-BU6DA	700/800/1900/2100/2300/3500/3800/3900	070	638353	142
18	AT&T	CCI	DMP65R-BU6DA	700/800/1900/2100/2300/3500/3800/3900	190	638353	142
19	AT&T	CCI	DMP65R-BU6DA	700/800/1900/2100/2300/3500/3800/3900	300	638353	142
20	AT&T	Ericsson	Air 6419	700/800/1900/2100/2300/3500/3800/3900	070	32168	142
21	AT&T	Ericsson	Air 6419	700/800/1900/2100/2300/3500/3800/3900	190	32168	142
22	AT&T	Ericsson	Air 6419	700/800/1900/2100/2300/3500/3800/3900	300	32168	142



Appendix 2.2 Antenna Inventory

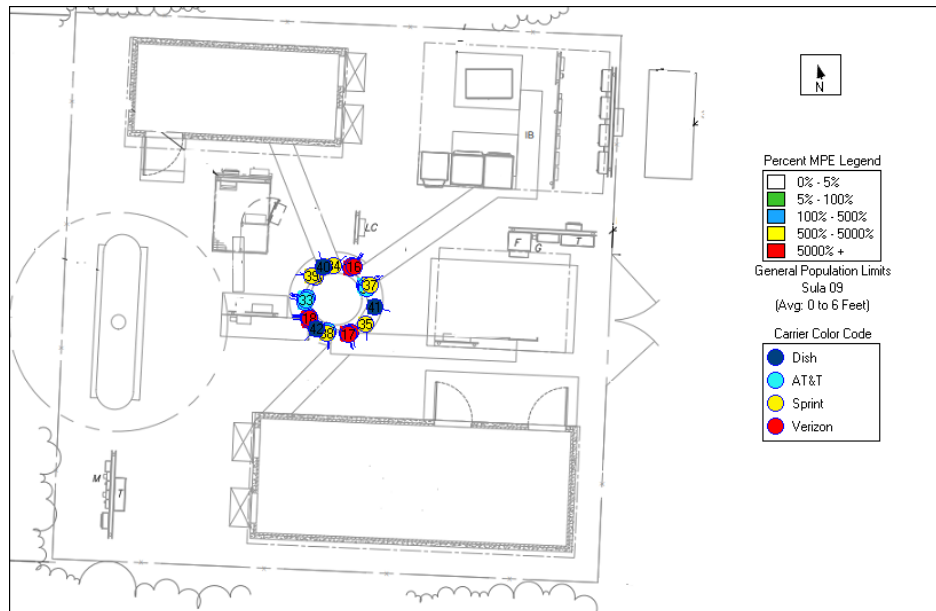
302529 Vernon CT 6							
Antenna Inventory							
Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azimuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
23	AT&T	Ericsson	Air 6449	700/800/1900/2100/2300/3500/3800/3900	070	24400	142
24	AT&T	Ericsson	Air 6449	700/800/1900/2100/2300/3500/3800/3900	190	24400	142
25	AT&T	Ericsson	Air 6449	700/800/1900/2100/2300/3500/3800/3900	300	24400	142
26	AT&T	CCI	TPA-65R-BU6DA	700/800/1900/2100/2300/3500/3800/3900	070	638353	142
27	AT&T	CCI	TPA-65R-BU6DA	700/800/1900/2100/2300/3500/3800/3900	190	638353	142
28	AT&T	CCI	TPA-65R-BU6DA	700/800/1900/2100/2300/3500/3800/3900	300	638353	142
29	Sprint	Ericsson	Air 6419	2500/2600	070	24400	130
30	Sprint	Ericsson	Air 6419	2500/2600	190	24400	130
31	Sprint	Ericsson	Air 6419	2500/2600	290	24400	130
32	Sprint	RFS	APXVAALL24	600/1900/2100	070	24400	130
33	Sprint	RFS	APXVAALL24	600/1900/2100	190	24400	130
34	Sprint	RFS	APXVAALL24	600/1900/2100	290	24400	130
35	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	000	48332	109
36	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	120	48332	109
37	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	240	48332	109
38	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	000	48332	108.7
39	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	120	48332	108.7
40	Dish	JMA	MX08FRO665-21	600/1900/2000/2100	240	48332	108.7

Appendix 3.1 MPE Limit Study



Maximum Power Density (@30'):	0.0019 mW/cm ²
General Population MPE (@30'):	0.2998%
Occupational MPE (@30'):	0.0600%

Appendix 3.2 MPE Limit Study





Appendix 4 Information Pertaining to MPE Studies

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

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

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

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



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

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

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



Appendix 5 MPE Standards Methodology

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

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

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

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

f = frequency

* = Plane-wave equivalent power density

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

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

f = frequency

* = Plane-wave equivalent power density

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

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



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

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

Cylindrical Model (Near Field Predictions)

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

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

Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length



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

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

Where:

S = Power Density

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

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

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



Spherical Model (Far Field Predictions)

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

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

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

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

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

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

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

DOCKET NO. 58

AN APPLICATION OF HARTFORD CELLULAR
COMPANY FOR A CERTIFICATE OF
ENVIRONMENTAL COMPATIBILITY AND PUBLIC
NEED FOR THE CONSTRUCTION, MAINTENANCE,
AND OPERATION OF FACILITIES TO PROVIDE
CELLULAR SERVICE IN HARTFORD, TOLLAND AND
MIDDLESEX COUNTIES.

CONNECTICUT SITING

COUNCIL

July 11, 1986.

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Connecticut Siting Council (Council) hereby directs that a Certificate of Environmental Compatibility and Public Need as provided by Section 16-50k of the General Statutes of Connecticut (CGS) be issued to the Hartford Cellular Company for the construction, maintenance, and operation of cellular mobile phone telecommunication towers and associated equipment in the towns of Glastonbury, Haddam, Hartford, Portland, Rocky Hill, Somers, Vernon, Windsor, and Willington subject to the conditions below.

1) The proposed Bloomfield and Middlefield sites are rejected without prejudice.

2) The antennas on the Glastonbury tower shall be mounted no higher than the 180' level of this existing tower.

3) The Portland and Rocky Hill towers shall be monopoles.

4) The towers shall be no taller than necessary to provide the proposed service, and in no event shall exceed total heights, including antennas, of

a) 193' at the Haddam site;

b) 173' at the Portland site;

- c) 153' at the Rocky Hill site;
- d) 173' at the Somers site;
- e) 173' at the Vernon site;
- f) 153' at the Willington site;
- g) 173' at the Windsor site.

5) The Hartford site receive antennas shall be mounted below the top of the high point of the building to preclude visibility.

6) Any future actions requiring the removal of the existing Glastonbury tower to be shared by the certificate holder shall also apply to the equipment mounted on that tower by the certificate holder, regardless of that equipment's status under Chapter 277a of the CGS.

7) The certificate holder shall submit a development and management (D&M) plan for the Haddam, Portland, Rocky Hill, Somers, Vernon and Windsor sites pursuant to Sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA), except that irrelevant items in Section 16-50j-76 need only be identified as such. In addition to the requirements of Section 16-50j-76, the D&M plan shall provide plans for evergreen screening around the fenced perimeter at the Haddam, Somers, Vernon, and Windsor sites. The D&M plan shall include a proposal for painting the approved monopole structures to blend with the sky. The D&M plan must be approved prior to facility construction. Any changes to specifications in the D&M plan must be approved by the Council prior to facility operation.

8) All certified facilities shall be constructed, operated, and maintained as specified in the Council's record and in the

site plan required by order number 7.

9) The certificate holder shall comply with any future radiofrequency (RF) standards promulgated by state or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facilities granted in this decision shall continue to be in compliance with such standards.

10) The certificate holder shall permit public or private entities to share space on the towers approved herein, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with Section 16-50j-73 of the RSA, the certificate holder shall notify the Council of the addition of any equipment to any approved tower.

11) A fence not lower than 8' shall surround each tower and associated equipment.

12) Unless necessary to comply with order 13, no lights shall be installed on any of these towers.

13) The facilities' construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to jurisdiction pursuant to Section 16-50k of the OGS shall be subject to all applicable federal, state, and municipal laws and regulations.

14) Construction activities shall take place during daylight working hours.

15) This decision and order shall be void and the towers and associate equipment shall be dismantled and removed, or reapplication for any new use shall be made to the Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction.

16) This decision and order shall be void if all construction authorized herein is not completed within three years of the issuance of this decision, or within three years of the completion of any appeal if appeal of this decision is taken, unless otherwise approved by the Council.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of the decision and order shall be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, Middletown Press, Manchester Journal Inquirer, and the Willimantic Chronicle.

The parties to the proceeding are:

Metro Mobile (applicant)
5 Eversley Avenue
Norwalk, Connecticut 06855
ATTN: Armand Mascioli
General Manager

Howard L. Slater, Esq. (its attorneys)
Scott A. Gursky, Esq.
Byrne, Slater, Sandler,
Shulman & Rouse, P.C.
111 Pearl Street
Hartford, Connecticut 06103

Richard Rubin, Esq.
Fleischman and Walsh, P.C.
1725 N Street, N.W.
Washington, D. C. 20036

Mr. William Wamester
1225 Randolph Road
Middletown, Connecticut 06457

The Southern New England Telephone Company
227 Church Street
New Haven, Connecticut 06506
ATTN: Peter J. Tyrrell, Esq.

Mr. James W. Tilney

represented by:
Patricia A. Ayars
Samuel Baily, Jr.
Robinson & Cole
One Commercial Plaza
Hartford, CT. 06103-3597

Mr. Samuel DuBosar, Chairman
Bessie Bennett, Esq.
Town Plan & Zoning Commission
P.O. Box 337
Bloomfield, Connecticut 06002

Town of Somers

represented by:

Mr. Robert F. Peters
Town Counsel
Tatoian, Devline, Peters
& Davis
11 South Road
P.O. Box 415
Somers, CT. 06071

Town of Haddam
represented by:

Lucy R. Petrella
Chairperson
Town Office Building
Route 9A
P.O. Box 87
Haddam, CT. 06438

Midstate Regional Planning Agency

represented by:

Thomas M. Gilligan
Regional Planner
P.O. Box 139
Middletown, CT. 06457

Dr. Donald P. LaSalle
Director
Talcott Mountain Science Center
Montevideo Road
Avon, Connecticut 06001

Barnard Tilson (service waived)
Secretary
Avon Planning and Zoning
60 West Main Street
Avon, Connecticut 06001

Alden Giddings
33 Privelege Road
Bloomfield, Connecticut 06002

Town of Bloomfield

represented by:

Joseph M. Suggs, Jr.
Deputy Mayor
Town Hall
880 Bloomfield Avenue
P.O. Box 337
Bloomfield, CT. 06002
(service waived)

Town of Middlefield

represented by:

David Silverstone, Esq.
Silverstone & Koontz
37 Lewis Street
Hartford, CT. 06103

with a copy to:

Geoffrey Colegrove
Midstate Regional Planning Agency
100 DeKoven Drive
Middletown, CT. 06457

Zoning Commission
Town of Somers

represented by:

Joseph A. Paradis
Chairman
Town Hall
600 Main Street
P.O. Box 803
Somers, CT. 06071

Barbara Sirwilo, Secretary (service waived)
Planning & Zoning Commission
Town of Rocky Hill
600 Old Main Street
P.O. Box 657
Rocky Hill, Connecticut 06067

H. Robert Goodrich (service waived)
Goodrich Lane
Portland, Connecticut 06480

The Honorable Richard P. Antonetti
State Representative (service waived)
5 Sachem Circle
Meriden, Connecticut 06450

John Hevrin
R.D. #1 - Plains Road
Haddam, Connecticut 06438

Norman and Darlene Manning (represented by)

Elizabeth Allen, Esq.
P.O. Box 467
Higganum, CT. 06441
(service waived)

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 11th day of July, 1986.

<u>Council Members</u>	<u>Vote Cast</u>
_____ Gloria Dibble Pond Chairperson	Absent
_____ <i>Patricia J. Shea</i> Commissioner John Downey Designee: Patricia Shea	Yes
_____ <i>Stanley Pac</i> Commissioner Stanley Pac Designee: Christopher Cooper	Yes
_____ <i>Owen L. Clark</i> Owen L. Clark	Yes
_____ <i>Mortimer A. Gelston</i> Mortimer A. Gelston	Yes
_____ <i>James G. Horsfall</i> James G. Horsfall	Yes
_____ Pamela B. Katz	Absent
_____ <i>William H. Smith</i> William H. Smith	Yes
_____ <i>Colin C. Tait</i> Colin C. Tait	Yes

STATE OF CONNECTICUT

)

:

COUNTY OF HARTFORD

)

ss. New Britain, July 11, 1986

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:



Christopher S. Wood, Executive Director
Connecticut Siting Council

AN APPLICATION FOR AN AMENDMENT TO THE	:	CONNECTICUT SITING
CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY	:	
AND PUBLIC NEED FOR TELECOMMUNICATIONS	:	COUNCIL
TOWERS AND ASSOCIATED EQUIPMENT TO PROVIDE	:	
CELLULAR SERVICE IN HARTFORD, MIDDLESEX,	:	
AND TOLLAND COUNTIES.	:	April 22, 1987

D E C I S I O N A N D O R D E R

The Connecticut Siting Council (Council) hereby amends the Certificate of Environmental Compatibility and Public Need issued pursuant to sections 16-50g through 16-50x of the Connecticut General Statutes of Connecticut (CGS) for the construction, operation, and maintenance of cellular mobile telephone telecommunications towers and associated equipment in Hartford, Tolland, and Middlesex Counties to permit the relocation of the Vernon tower 250 feet to the west, subject to the conditions below.

1. The tower shall be no taller than necessary to provide the proposed service, and in no event shall exceed a total height, including antennas, of 143 feet.
2. The Certificate holder shall submit a development and management plan (D&M plan) for the Vernon site, pursuant to sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA). The D&M plan shall provide plans for evergreen screening around the fenced perimeter of the tower site.
3. This facility shall be constructed, operated, and maintained as specified in the Council's record and in the plan required by order number 2.

4. The certificate holder shall comply with any future radiofrequency (RF) standards promulgated by state or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility shall be brought into compliance with such standards.
5. The certificate holder shall permit public or private entities to share space on the tower approved herein, for due consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. In addition to complying with section 16-50j-73 of the RSA, the certificate holder shall notify the Council of the addition of any equipment to the approved tower.
6. A chain link fence not lower than eight feet shall surround the tower and associated equipment.
7. Unless necessary to comply with order eight, no lights shall be installed on this tower.
8. The facility's construction and any future tower sharing shall be in accordance with all applicable federal, state, and municipal laws and regulations. Shared uses by entities not subject to Council jurisdiction pursuant to Section 16-50k of the CGS shall be subject to all applicable federal, state, and municipal laws and regulations.
9. Construction activities shall take place during daylight working hours.

10. This decision and order shall be void and the tower and all associated equipment shall be dismantled and removed, or reapplication for any new use shall be made to the Council before any such new use is made, if the tower does not provide or permanently ceases to provide cellular service following completion of construction.

11. This decision and order shall be void if all construction authorized herein is not completed within three years of the issuance of this decision, or within three years of the completion of any appeal if appeal of this decision is taken.

Pursuant to CGS section 16-50p, we hereby direct that a copy of the decision and order shall be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, and the Manchester Journal Inquirer.

The parties to the proceeding are:

Metro Mobile CTS of Hartford, Inc. P.O. Box 1235 East Granby, Connecticut 06026 ATTN: Gary Schulman General Manager	(Applicant)
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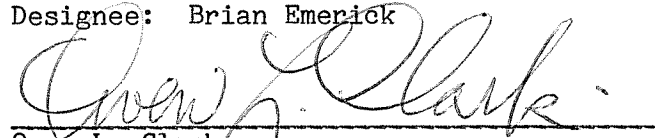
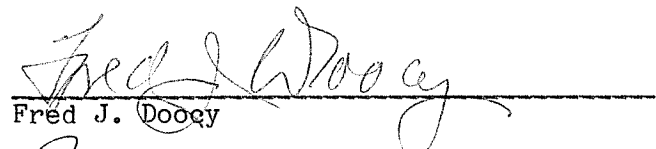
Byrne, Slater, Sandler, Shulman & Rouse, P.C. 330 Main Street P.O. Box 3216 Hartford, Connecticut 06103 ATTN: Howard L. Slater, Esq.	(its attorney)
---	----------------

Fleischman and Walsh, P.C. 1725 N Street, N.W. Washington, D.C. 20036 ATTN: Jonathan V. Cohen, Esq.	(its attorney)
--	----------------

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 22nd day of April, 1987.

<u>Council Members</u>	<u>Vote Cast</u>
 Gloria Dibble Pond Chairperson	Yes
 Commissioner John Downey Designee: Commissioner Peter G. Boucher	Yes
 Acting Commissioner John Anderson Designee: Brian Emerick	Yes
 Owen L. Clark	Yes
 Fred J. Doocy	Yes
 Mortimer A. Gelston	Yes
 James G. Horsfall	Yes
 William H. Smith	Absent
 Colin C. Tait	Yes

STATE OF CONNECTICUT

)

:

COUNTY OF HARTFORD

)

ss. New Britain, April 22, 1987

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

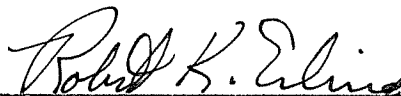
ATTEST:



John C. Kelly
Executive Director
Connecticut Siting Council

I certify that a copy of the opinion and decision and order have been forwarded by mail to all parties of record on April 23, 1987.

ATTEST:



Robert K. Erling
Siting Analyst
Connecticut Siting Council



LETTER OF AUTHORIZATION FOR PERMITTING

ATC SITE#/NAME/PROJECT: 302529 / Vernon CT 6 / 14846738
SITE ADDRESS: 777 Talcottville Rd, Vernon Rockville, CT 06066-2318
APN: VERN M:07 B:0002 L:00078
LICENSEE: VERIZON WIRELESS d/b/a CELLCO PARTNERSHIP

I, Margaret Robinson, Vice President, UST Legal for American Tower*, owner of the tower facility located at the address identified above (the "Tower Facility"), do hereby authorize VERIZON WIRELESS d/b/a CELLCO PARTNERSHIP, its successors and assigns, and/or its agent, (collectively, the "Licensee") to act as American Tower's non-exclusive agent for the sole purpose of filing and consummating any land-use or building permit application(s) as may be required by the applicable permitting authorities for Licensee's telecommunications' installation.

I understand that these applications may be approved with conditions. The above authorization is limited to the acceptance by Licensee only of conditions related to Licensee's installation and any such conditions of approval or modifications will be Licensee's sole responsibility.

Signature:

Print Name: Margaret Robinson
Vice President, UST Legal
American Tower*

NOTARY BLOCK

Commonwealth of MASSACHUSETTS
County of Middlesex

This instrument was acknowledged before me by Margaret Robinson, Vice President, UST Legal for American Tower*, personally known to me (or proved to me based on satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal, this 12th day of April 2024.

NOTARY SEAL



GERARD T. HEFFRON
Notary Public
Commonwealth of Massachusetts
My Commission Expires
August 9, 2024

Notary Public
My Commission Expires: August 9th, 2024

*American Tower includes all affiliates and subsidiaries of American Tower Corporation.

ORIGIN ID:SYRA (315) 569-9241
CASSANDRA DARMODY
PYRAMID NETWORK SERVICES LLC
6615 TOWPATH RD

SHIP DATE: 20DEC24
ACTWGT: 0.50 LB
CAD: 114425996/NET:

E SYRACUSE, NY 13057
UNITED STATES US

TO **DANIEL CHAMPAGNE, MAYOR**
TOWN OF VERNON
VERNON TOWN HALL, 3RD FLOOR
14 PARK PLACE

VERNON CT 06066

REF: ATCNY2000 VERNON 3 CT 14846738
 (860) 870-3600
 INV: ATCNY2000 VERNON 3 CT 14846738
 PO: ATCNY2000 VERNON 3 CT 14846738
 DEPT:

DEPT:

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Express

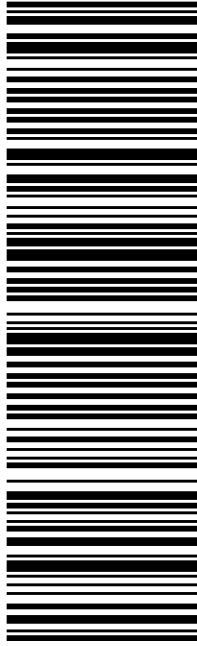
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**THU - 26 DEC 5:00P
EXPRESS SAVER**

TRK# 7709 4296 0100

4Z SWNDG

CT-US
BDL
06066



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CASSANDRA DARMODY
PYRAMID NETWORK SERVICES LLC
6615 TOWPATH RD
E SYRACUSE, NY 13057
UNITED STATES US

SHIP DATE: 20DEC24
ACTWGT: 0.50 LB
CAD: 114425996/INET4535

TO ASHLEY STEPHENS, PLANNER
TOWN OF VERNON
PLANNING AND DEVELOPMENT
55 WEST MAIN STREET, 2ND FLOOR
VERNON CT 06066

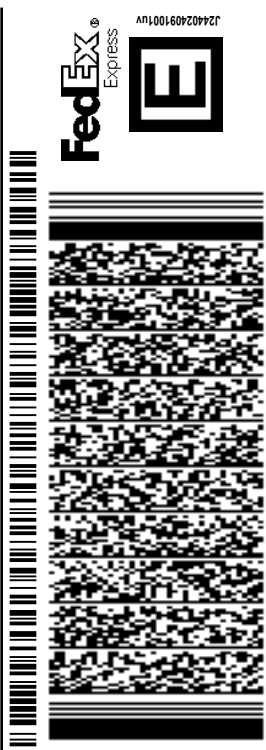
BILL SENDER

(860) 870-3640
IN: ATONY2000 VERNON 3 CT 14846738
PO: ATONY2000 VERNON 3 CT 14846738

REF: ATONY2000 VERNON 3 CT 14846738

DEPT:

58CJ5/49B9/C6C4



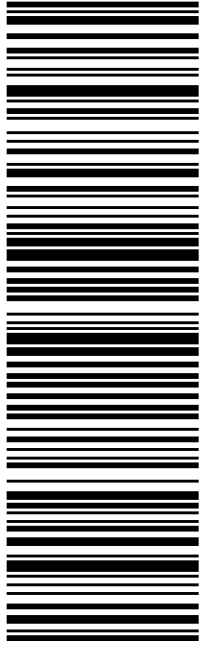
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0201

THU - 26 DEC 5:00P
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4Z SWNDG

06066
CT-US BDL



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ORIGIN ID:SYRA (315) 569-9241
CASSANDRA DARMODY
PYRAMID NETWORK SERVICES LLC
6615 TOWPATH RD

SHIP DATE: 20DEC24
ACTWGT: 0.50 LB
CAD: 114425996/INET4535

E SYRACUSE, NY 13057
UNITED STATES US

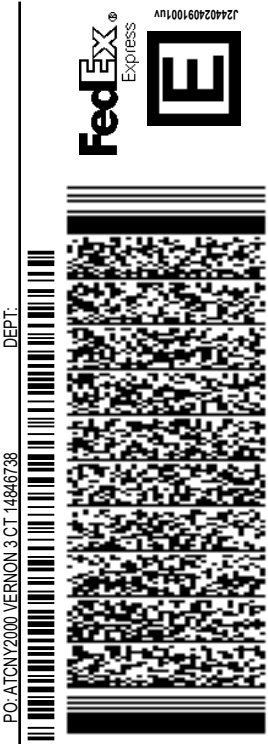
BILL SENDER

TO PROPERTY MANAGEMENT
AMERICAN TOWER CORP
10 PRESIDENTIAL WAY

58CJ5/49B9/C6C4

WOBURN MA 01801

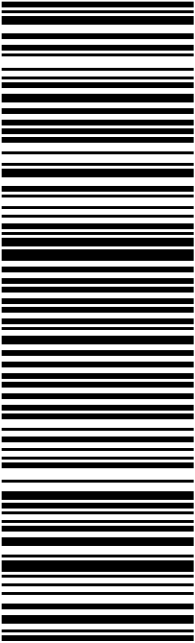
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PO: ATCONY2000 VERNON 3 CT 14846738



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4Z WLMGG 01801
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