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

December 15th , 2023

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

RE: Notice of Exempt Modification // Site: NEW FAIRFIELD CT (ATC: 88014)
22 Titicus Mountain Road, New Fairfield, CT 06812
N 41.40567658 // W -73.51596712

Dear Ms. Bachman,

Cellco Partnership d/b/a Verizon Wireless currently maintains nine (9) antenna at the 146-ft level on the existing 188 ft Tower, located at 22 Titicus Mountain Road, New Fairfield, CT. The tower is owned by American Tower. Verizon Wireless proposed modification involves the installation of two (2) interference mitigation filters on Verizon Wireless existing antenna platform and mounting assembly.

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

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated November 21, 2023, by A.T Engineering Services, LLC, a structural analysis dated August 24, 2023, by American Tower Corp., and a structural mount analysis by Colliers Engineering and Design dated October 27, 2023, and Non-Ionizing Electromagnetic Radiation (NIER) Study dated September 7, 2023, by Tower Engineering Professionals.

1. The proposed modifications will not result in an increase in the height of the existing structure.

2. The proposed modifications will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis and a structural mount analysis, pursuant to certain conditions defined therein. Design and engineering are fully illustrated within final construction drawings.

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

Sincerely,

Derek Maheux

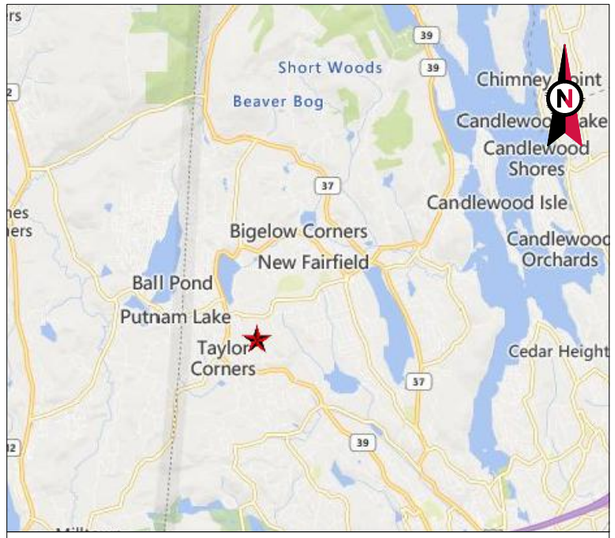
_____

Derek Maheux, Program Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
Mobile: (508) 649 2307
Dmaheux@clinellc.com

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

cc: Pat Del Monaco – First Selectman – Chief Elected Official
Cynthia Ross Zweig - Planning Commission Chair - as P&Z official
American Tower Corporation - as tower owner and ground owner

EXHIBIT 1



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: NEW FAIRFIELD
ATC SITE NUMBER: 88014
VERIZON SITE NAME: NEW FAIRFIELD CT
VERIZON SITE NUMBER: 5000384780
VERIZON FUZE PID: FUZE ID FROM RFDS
SITE ADDRESS: 22 TITICUS MTN ROAD
NEW FAIRFIELD, CT 06812

LOCATION MAP

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

VERIZON AMENDMENT DRAWINGS

COMPLIANCE CODE

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. 2022 CONNECTICUT STATE BUILDING CODE
2. 2020 NFPA 70, NATIONAL ELECTRIC CODE (NEC)
3. 2021 INTERNATIONAL BUILDING CODE (IBC)
4. LOCAL BUILDING CODE
5. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: EVERSOURCE
PHONE: (877) 659-6326

TELEPHONE COMPANY: FRONTIER COMMUNICATIONS
PHONE: (800) 376-6843

811 Know what's below. Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

22 TITICUS MTN ROAD
NEW FAIRFIELD, CT 06812
COUNTY: FAIRFIELD

GEOGRAPHIC COORDINATES:

LATITUDE: 41.45067658
LONGITUDE: -73.51596712
GROUND ELEVATION: 890' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS

ENGINEER:

ATC TOWER SERVICES, LLC
3500 REGENCY PKWY STE 100
CARY, NC 27518

PROPERTY OWNER:

AMERICAN TOWER CORPORATION
22 TITICUS MTN ROAD
NEW FAIRFIELD, CT 06812

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

INSTALL (2) FILTER(s)

EXISTING (9) ANTENNA(s), (6) RRH(s), (1) OVP(s), (6) 1-5/8" COAX CABLE(s), AND (2) 1-1/4" HYBRID CABLE(s) TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.
6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

PROJECT LOCATION DIRECTIONS

TAKE I-84 TO EXIT 5. TURN LEFT ONTO RT 39 AND PROCEED 5.3 MILES TO GILLOTTI RD. TURN RIGHT ONTO GILLOTTI RD AND PROCEED 0.3 MILES TO TITTICUS RD. TURN RIGHT ONTO TITTICUS RD. PROCEED 0.3 MILES TO SITE ON RIGHT.

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	11/21/23	JBW
G-002	GENERAL NOTES	0	11/21/23	JBW
C-101	DETAILED SITE PLAN	0	11/21/23	JBW
C-201	TOWER ELEVATION	0	11/21/23	JBW
C-401	ANTENNA INFORMATION & SCHEDULE	0	11/21/23	JBW
C-501	CONSTRUCTION DETAILS	0	11/21/23	JBW
E-501	GROUNDING DETAILS	0	11/21/23	JBW
R-601	SUPPLEMENTAL			

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT: HTTPS://PMI.VZWSMART.COM

SMART TOOL VENDOR PROJECT NUMBER: 10210307
VZW LOCATION CODE (PSLC): 5000384780

***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

MOUNT MODIFICATION REQUIRED: NO

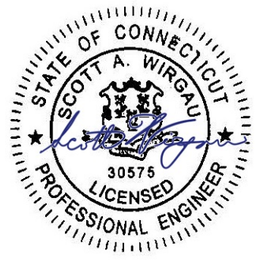
VZW APPROVED SMART KIT VENDORS: REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS

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

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JBW	11/21/23

ATC SITE NUMBER:
88014
ATC SITE NAME:
NEW FAIRFIELD
VERIZON SITE NAME:
NEW FAIRFIELD CT
SITE ADDRESS:
22 TITICUS MTN ROAD
NEW FAIRFIELD, CT 06812

SEAL:



verizon

ATC JOB NO:	14519495_G0
CUSTOMER ID:	NEW FAIRFIELD CT
CUSTOMER #:	5000384780

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

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

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL/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.
   - B. ALL COAXIAL/HYBRID CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL/HYBRID CABLE (NOT WITHIN BENDS)

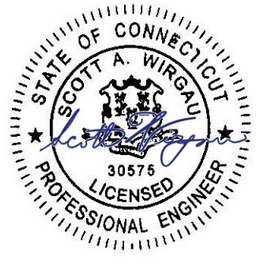
ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE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

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

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JBW	11/21/23

ATC SITE NUMBER:
88014
ATC SITE NAME:
NEW FAIRFIELD
VERIZON SITE NAME:
NEW FAIRFIELD CT
SITE ADDRESS:
22 TITICUS MTN ROAD
NEW FAIRFIELD, CT 06812

SEAL:



Digitally Signed: 2023-11-21

verizon

ATC JOB NO:	14519495_G0
CUSTOMER ID:	NEW FAIRFIELD CT
CUSTOMER #:	5000384780

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

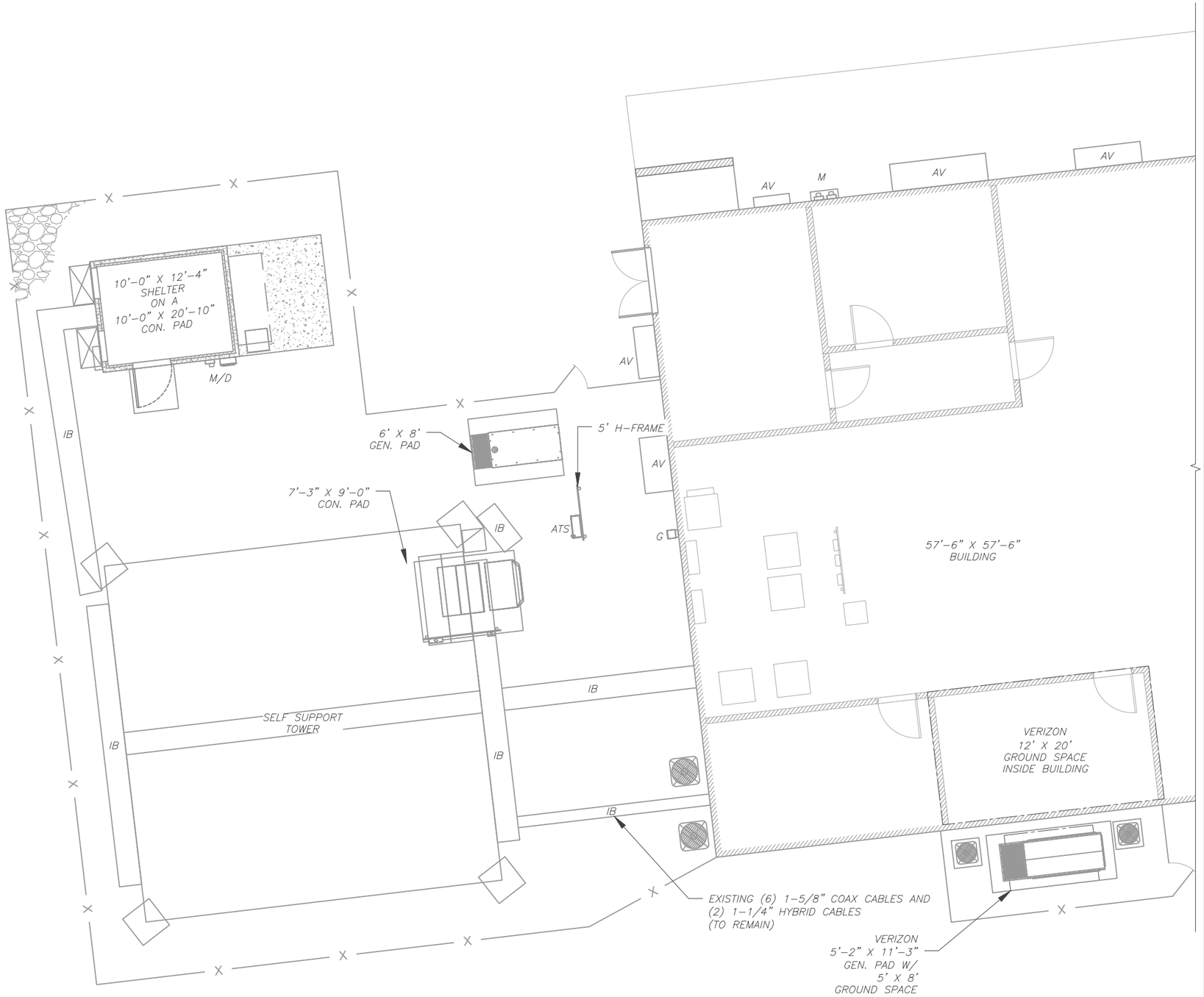
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

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



1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

(IN FEET)

1 UNIT = 10 FEET

AMERICAN TOWER®

A.T. ENGINEERING SERVICES LLC

3500 REGENCY PARKWAY
SUITE 100
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PHONE: (919) 468-0112
PEC.0001553

REV.	DESCRIPTION	BY	DATE
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88014

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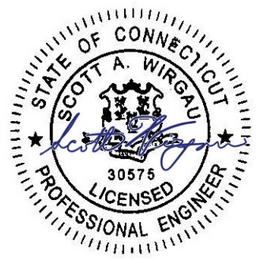
VERIZON SITE NAME:
NEW FAIRFIELD CT

SITE ADDRESS:
22 TITICUS MTN ROAD
NEW FAIRFIELD, CT 06812

SEAL:



Digitally Signed: 2023-11-21

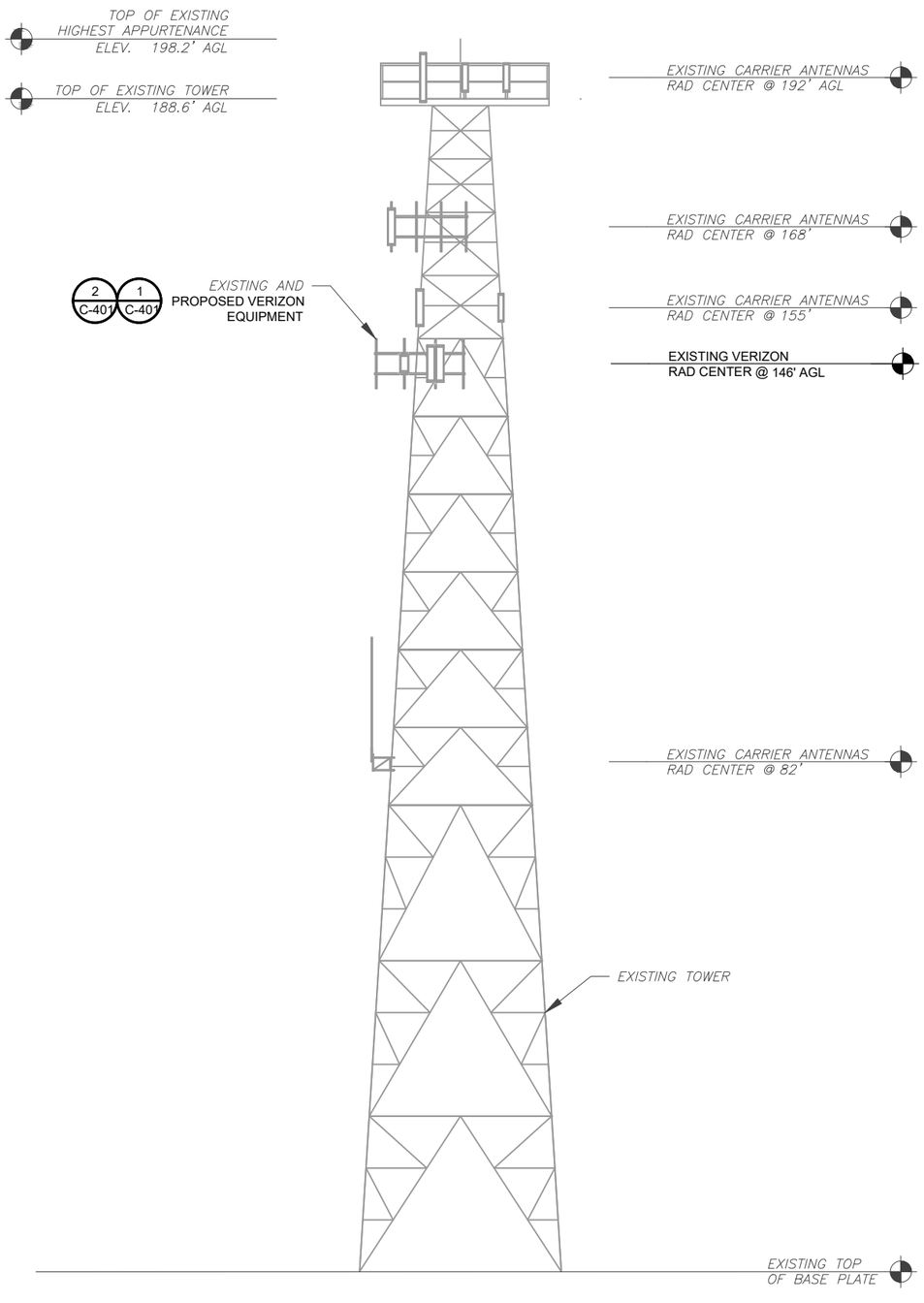
verizon

ATC JOB NO:	14519495_G0
CUSTOMER ID:	NEW FAIRFIELD CT
CUSTOMER #:	5000384780

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN CT. P.C., DATED 10/27/23, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



1 TOWER ELEVATION
SCALE: N.T.S.

TOWER NOTE:
1. 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.
2. 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.
3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
4. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

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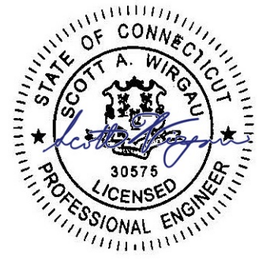
PHONE: (919) 468-0112
PEC.0001553

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JBW	11/21/23

ATC SITE NUMBER:
88014
ATC SITE NAME:
NEW FAIRFIELD
VERIZON SITE NAME:
NEW FAIRFIELD CT
SITE ADDRESS:
22 TITICUS MTN ROAD
NEW FAIRFIELD, CT 06812

SEAL:



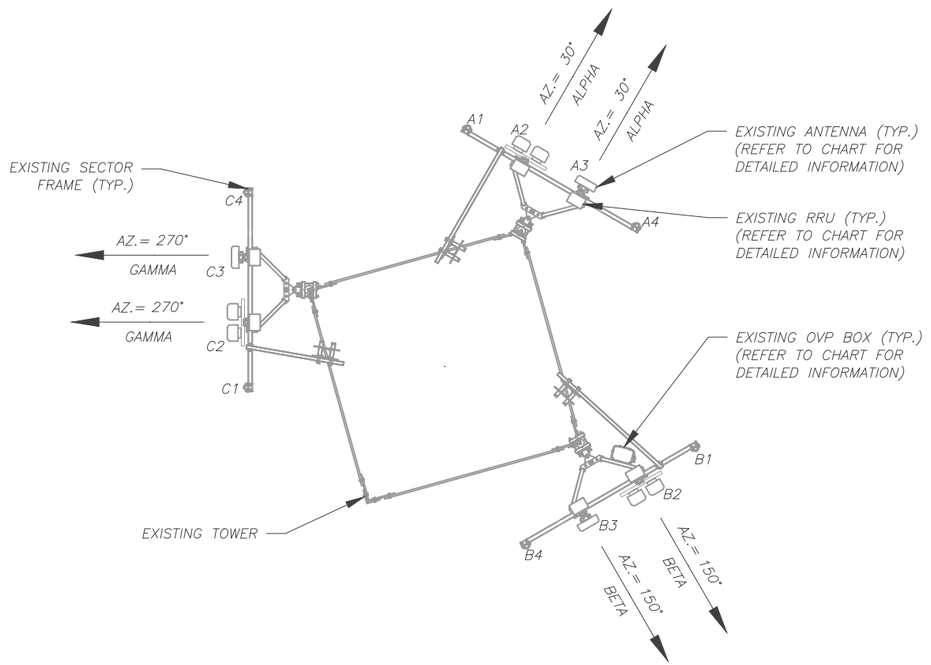
Digitally Signed: 2023-11-21

verizon

ATC JOB NO:	14519495_G0
CUSTOMER ID:	NEW FAIRFIELD CT
CUSTOMER #:	5000384780

TOWER ELEVATION

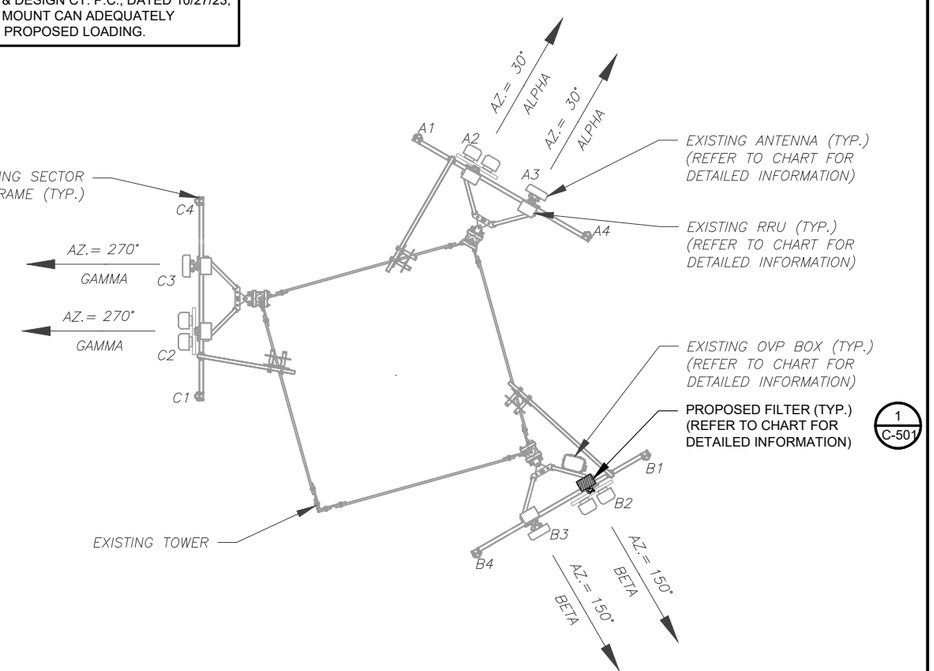
SHEET NUMBER:	REVISION:
C-201	0



1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY COLLIERS ENGINEERING & DESIGN CT. P.C., DATED 10/27/23, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	146'	30°	A1	–	–	–	–
			A2	(2) MX06FRO660-03	RMN	RF4440D-13A	RMN
			A3	MT6407-77A	RMN	RF 4439D-25A	RMN
			A4	–	–	–	–
BETA		150°	B1	–	–	–	–
			B2	(2) MX06FRO660-03	RMN	RF4440D-13A	RMN
			B3	MT6407-77A	RMN	RF 4439D-25A	RMN
			B4	–	–	–	–
GAMMA		270°	C1	–	–	–	–
			C2	(2) MX06FRO660-03	RMN	RF4440D-13A	RMN
			C3	MT6407-77A	RMN	RF 4439D-25A	RMN
			C4	–	–	–	–

NOTES

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

STATUS ABBREVIATIONS

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

CABLE LENGTHS FOR JUMPERS

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

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	146'	30°	A1	-	-	-	-
			A2	(2) MX06FRO660-03	RMN	RF4440D-13A	RMN
			A3	MT6407-77A	RMN	RF 4439D-25A	RMN
			A4	-	-	-	-
BETA		150°	B1	-	-	-	-
			B2	(2) MX06FRO660-03	RMN	(2) KA-6030 RF4440D-13A	ADD RMN
			B3	MT6407-77A	RMN	RF 4439D-25A	RMN
			B4	-	-	-	-
GAMMA		270°	C1	-	-	-	-
			C2	(2) MX06FRO660-03	RMN	RF4440D-13A	RMN
			C3	MT6407-77A	RMN	RF 4439D-25A	RMN
			C4	-	-	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
RVZDC-6627-PF-48	RMN	(6) 1-5/8" COAX (2) 1-1/4" HYBRID	RMN
–	–	–	–

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY	
MODEL NUMBER	STATUS	CABLE QTY, SIZE, TYPE	STATUS
RVZDC-6627-PF-48	RMN	(6) 1-5/8" COAX (2) 1-1/4" HYBRID	RMN
-	-	-	-

3 EQUIPMENT SCHEDULES

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

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	JBW	11/21/23

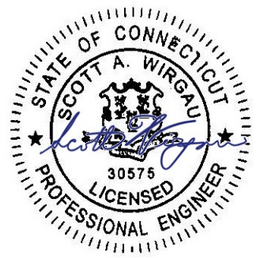
ATC SITE NUMBER:
88014

ATC SITE NAME:
NEW FAIRFIELD

VERIZON SITE NAME:
NEW FAIRFIELD CT

SITE ADDRESS:
22 TITICUS MTN ROAD
NEW FAIRFIELD, CT 06812

SEAL:



Digitally Signed: 2023-11-21

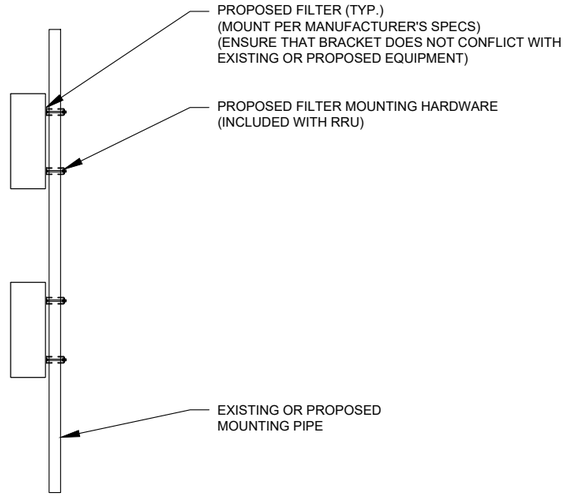
verizon

ATC JOB NO:	14519495_G0
CUSTOMER ID:	NEW FAIRFIELD CT
CUSTOMER #:	5000384780

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

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



1 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

AMERICAN TOWER®

A.T. ENGINEERING SERVICES LLC

3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
PEC.0001553

REV.	DESCRIPTION	BY	DATE
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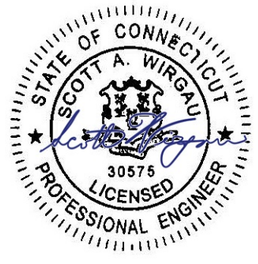
NEW FAIRFIELD, CT 06812

SEAL:



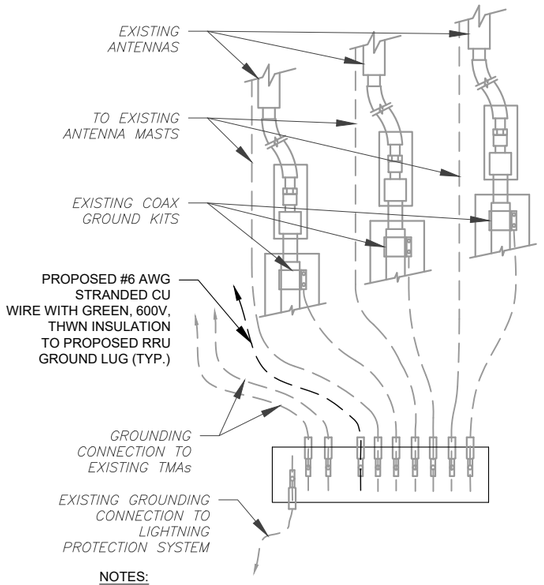
Digitally Signed: 2023-11-21

verizon

ATC JOB NO:	14519495_G0
CUSTOMER ID:	NEW FAIRFIELD CT
CUSTOMER #:	5000384780

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

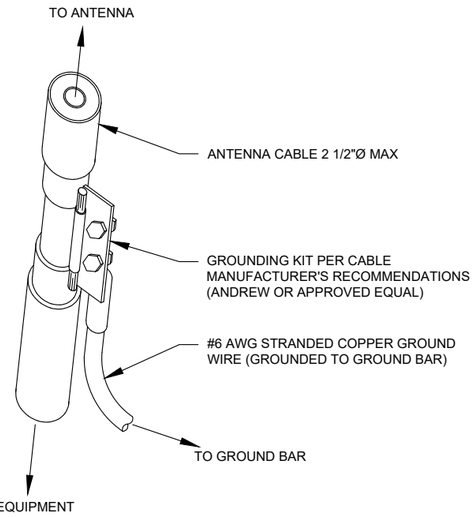


NOTES:

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

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

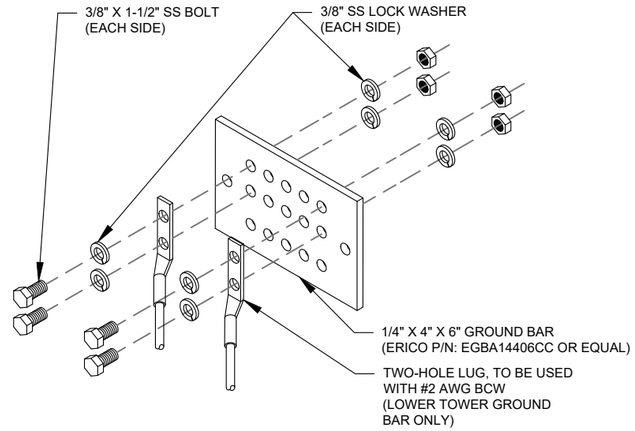


GROUND KIT NOTES:

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

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.



GROUND BAR NOTES:

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

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

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

REV.	DESCRIPTION	BY	DATE
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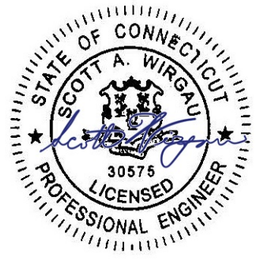
NEW FAIRFIELD, CT 06812

SEAL:



Digitally Signed: 2023-11-21

verizon

ATC JOB NO:	14519495_G0
CUSTOMER ID:	NEW FAIRFIELD CT
CUSTOMER #:	5000384780

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10210307
Colliers Engineering & Design Project #: 23777227 (Rev.1)

October 27, 2023

Site Information

Site ID:	*5000384780-VZW / NEW FAIRFIELD CT*
Site Name:	*NEW FAIRFIELD CT*
Carrier Name:	*Verizon Wireless*
Address:	*18 Titicus Mountain Road* *New Fairfield, Connecticut 06812* *Fairfield County*
Latitude:	*41.450664°*
Longitude:	*-73.515989°*

Structure Information

Tower Type:	*187.5-Ft Self Support*
Mount Type:	*12.50-Ft Sector Frame*

FUZE ID # 17123932

Analysis Results

Sector Frame: **33.8% Pass***

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

****Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com

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

Report Prepared By: Selene Chen

STATE OF CONNECTICUT · DEJIAN XU · No. 33733 · LICENSED PROFESSIONAL ENGINEER

10/27/2023

Requirements:

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

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

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

Attachments:

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

1 MOUNT ANALYSIS

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

SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-601	0

KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

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

FEATURES

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

TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	

ELECTRICAL	
Impedance	50Ohms
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm

DC / AISG	
Passband	0 - 13MHz
Insertion loss	0.3dB maximum
Return loss	15dB minimum
Input voltage range	± 33V
DC current rating	2A continuous, 4A peak
Compliance	3GPP TS 25.461

ENVIRONMENTAL	
For further details of environmental compliance, please contact Kaelus.	
Temperature range	-20ºC to +60ºC | -4°F to +140°F
Ingress protection	IP67
Altitude	2600m | 8530ft
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE

MECHANICAL	
Dimensions H x D x W	269 x 277 x 80mm | 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)
Weight	8.0 kg | 17.6 lbs (no bracket)
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.

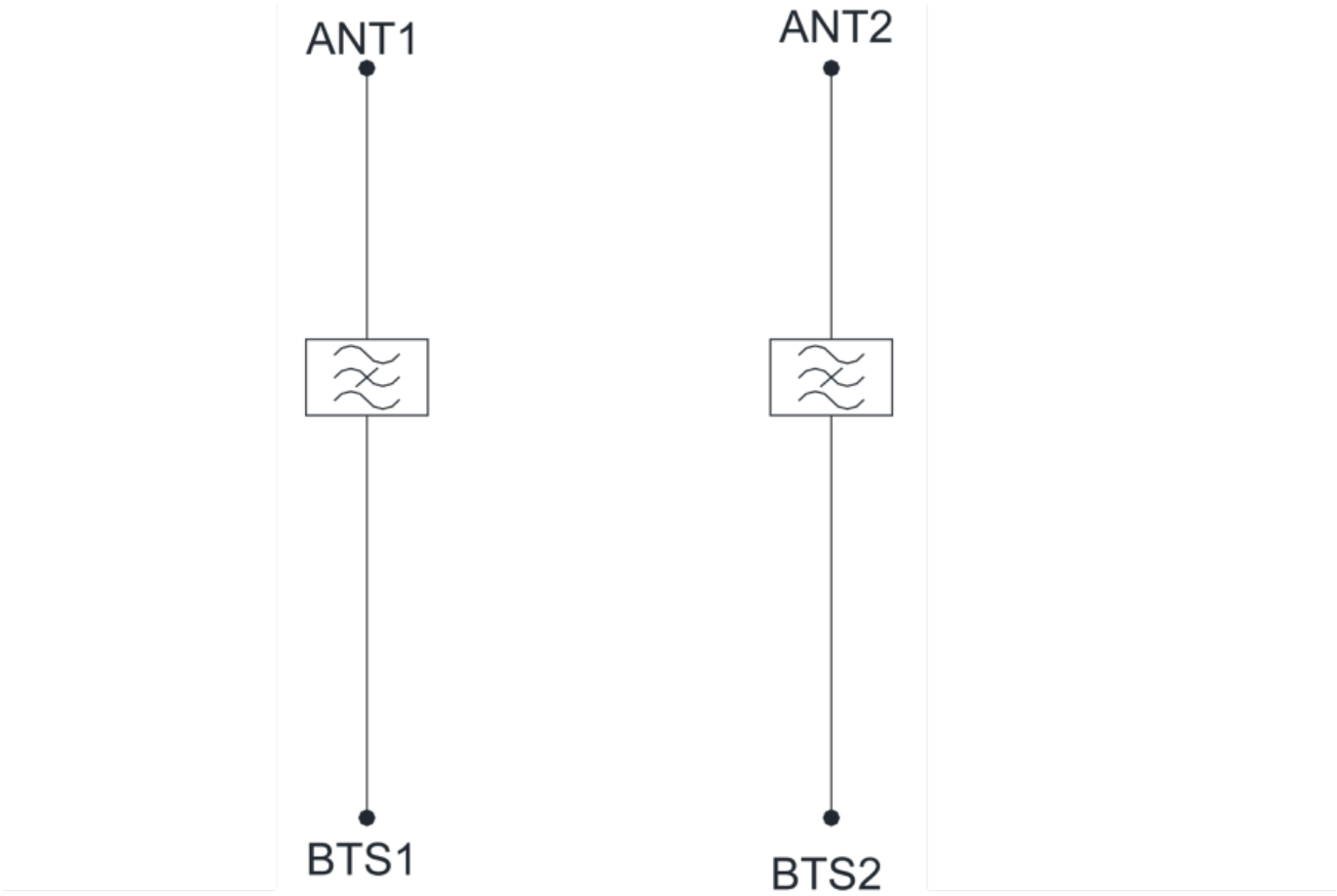
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ORDERING INFORMATION

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

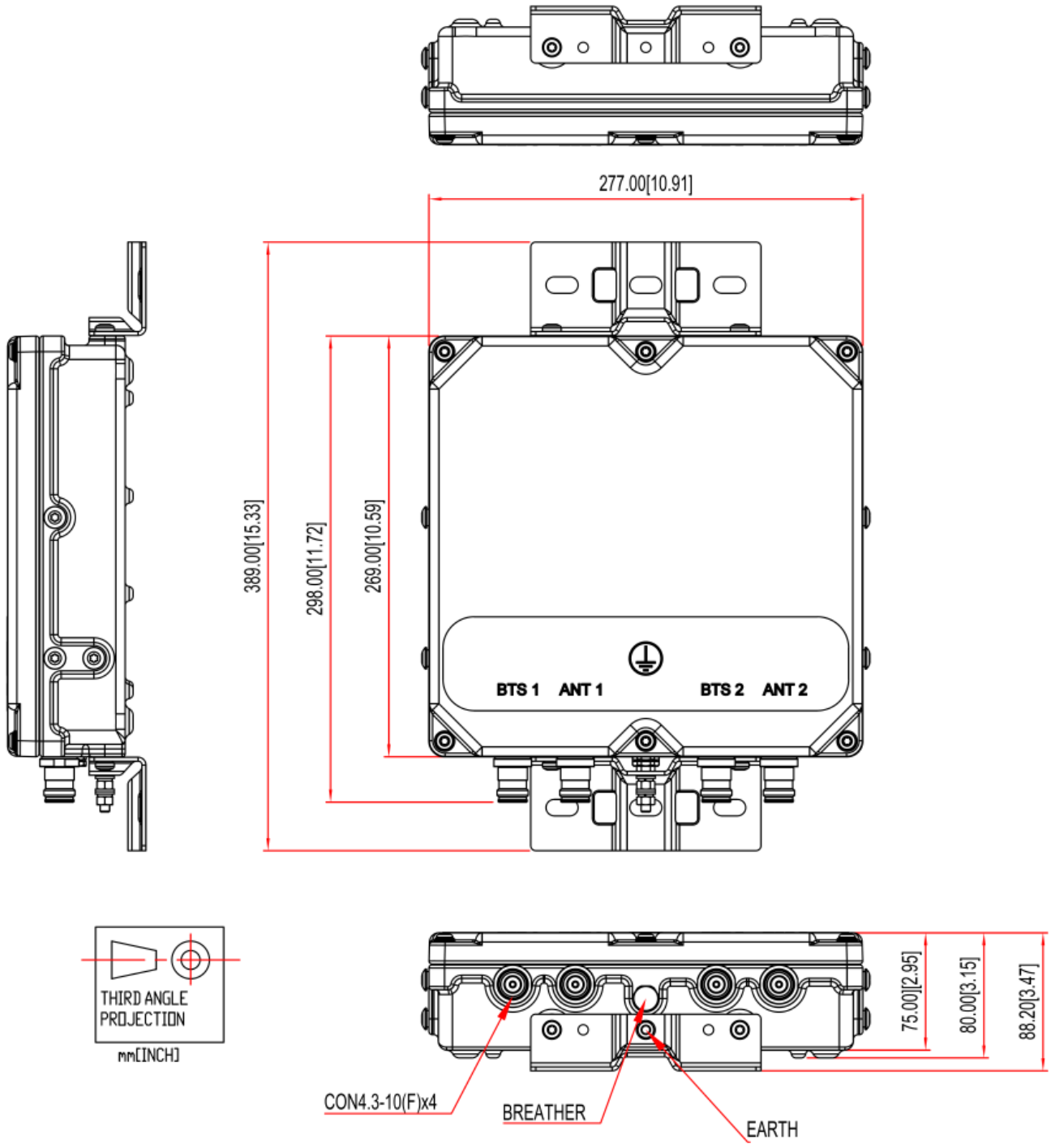
Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

ELECTRICAL BLOCK DIAGRAM



Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

MECHANICAL BLOCK DIAGRAM



Contact Us: +1 303 768 8080 | +61 (0) 7 3907 1200 | www.kaelus.com

EXHIBIT 2

16 TITICUS MTN RD

Location	16 TITICUS MTN RD	**Mblu**	27/ 2/ 7.3/ /
Acct#	00580500	**Owner**	AMERICAN TOWERS INC
Assessment	$1,017,300	**Appraisal**	$1,453,400
PID	5837	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2022	$1,196,200	$257,200	$1,453,400
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2022	$837,300	$180,000	$1,017,300

Owner of Record

Owner	AMERICAN TOWERS INC	**Sale Price**	$359,641
Co-Owner	C/O AMERICAN TOWER CORPORATION	**Certificate**	
Address	PO BOX 723597 ATLANTA, GA 31139	**Book & Page**	0301/0274
		Sale Date	02/17/2000

Ownership History

Ownership History				
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Sale Date**
AMERICAN TOWERS INC	$359,641		0301/0274	02/17/2000

Building Information

Building 1 : Section 1

Year Built:	1967
Living Area:	3,249
Replacement Cost:	$332,990
Building Percent Good:	34
Replacement Cost Less Depreciation:	$113,200

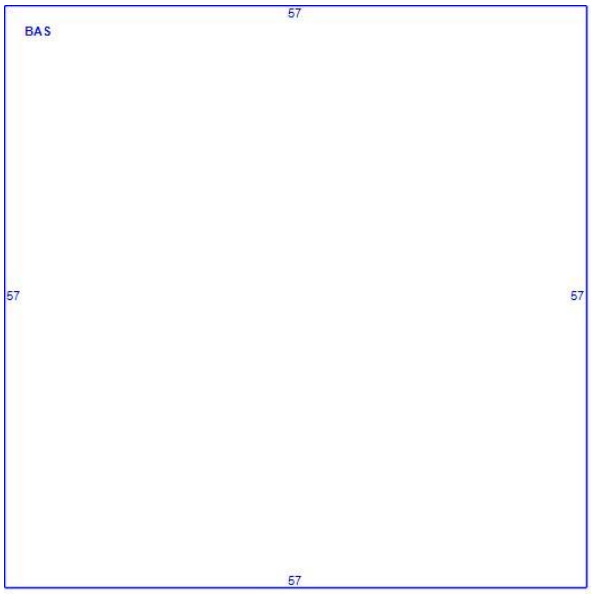
Building Attributes

Field	Description
Style:	Tower support
Model	Commercial
Grade	C
Stories:	1
Occupancy	1.00
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Typical
Heating Type	None
AC Type	Central
Struct Class	
Bldg Use	Pub. Utility
1st Floor Use:	504
Heat/AC	HEAT/AC SPLIT
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	SUSP-CEIL ONLY
Rooms/Prtns	AVERAGE
Wall Height	14.00
% Comn Wall	

Building Photo

(https://images.vgsi.com/photos/NewFairfieldCTPhotos//\00\00\12\12.jpg)

Building Layout



(ParcelSketch.ashx?pid=5837&bid=5837)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	3,249	3,249
		3,249	3,249

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	400
Description	Pub. Utility
Zone	2
Neighborhood	D
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	5.1
Depth	
Assessed Value	$180,000
Appraised Value	$257,200

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
PAV1	PAVING-ASPHALT			3200.00 S.F.	$1,700	1
SHD1	Shed			100.00 S.F.	$1,300	1
CELL	Cell Tenant			4.00 UNITS	$1,080,000	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$1,196,200	$257,200	$1,453,400
2020	$1,196,200	$257,200	$1,453,400
2018	$835,100	$257,200	$1,092,300

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2021	$837,300	$180,000	$1,017,300
2020	$837,300	$180,000	$1,017,300
2018	$584,600	$180,000	$764,600

16 TITICUS MTN ROAD

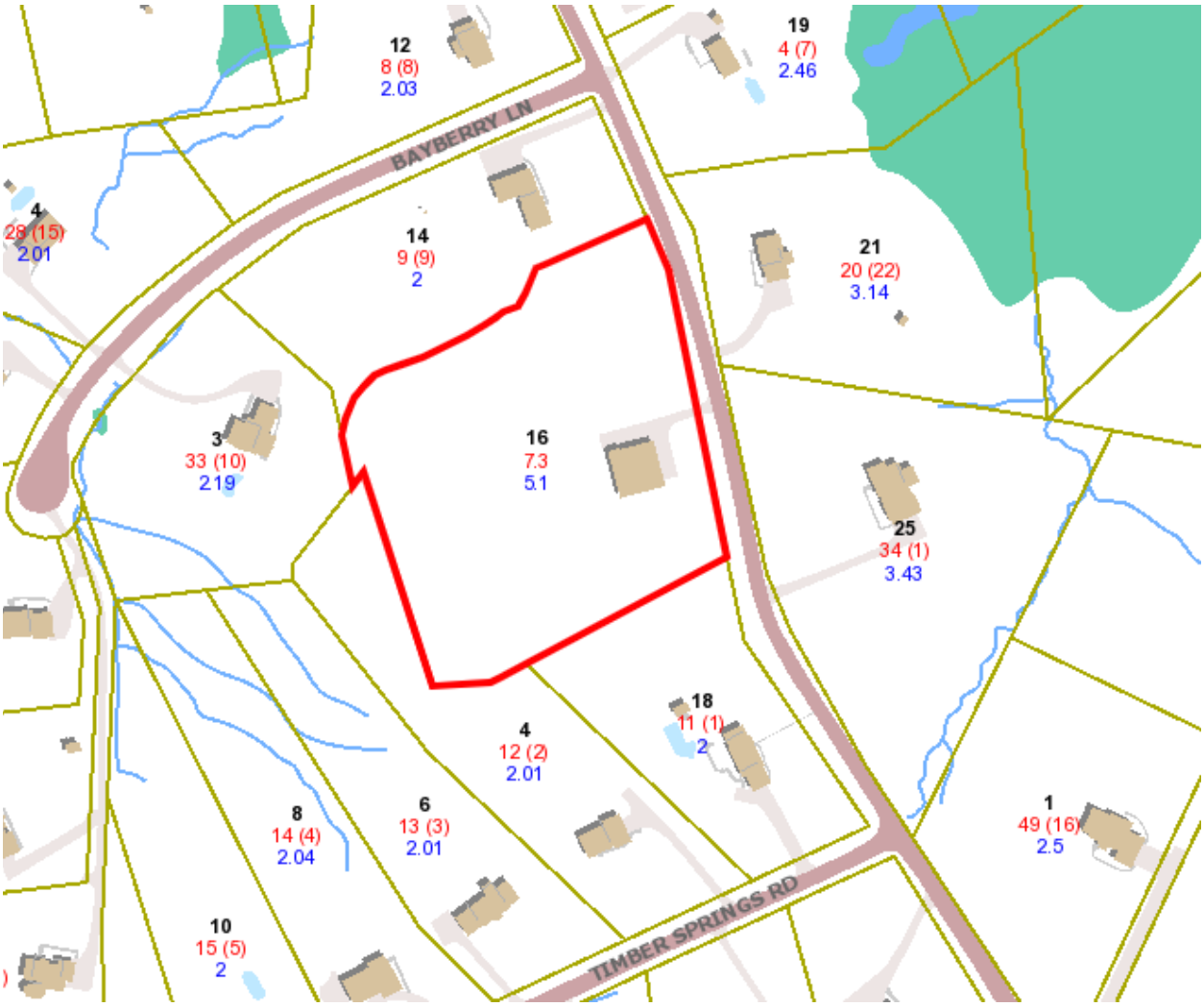


EXHIBIT 3

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	188 ft Self Support Tower
ATC Asset Name	:	NEW FAIRFIELD
ATC Asset Number	:	88014
Engineering Number	:	14519495_C3_03
Proposed Carrier	:	VERIZON WIRELESS
Carrier Site Name	:	NEW FAIRFIELD CT
Carrier Site Number	:	5000384780
Site Location	:	22 Titicus Mtn Road New Fairfield, CT 06812-2565 41.4507° N, 73.516° W
County	:	Fairfield
Date	:	August 24, 2023
Max Usage	:	71%
Analysis Result	:	Pass

Created By:

Tanner Lenning
Structural Engineer I

Tanner Lenning

STATE OF CONNECTICUT
ESHA KAUSHAL MODI
32593
LICENSED
PROFESSIONAL ENGINEER

COA: PEC.0001553

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 188 ft Self Support tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower:	Analysis by CSEI, ATC Eng. #26464321, dated August 21, 2006.
Foundation:	Mapping By Geotel Report #E08-291-F, dated May 19, 2008
Geotechnical:	Geotel Report #E08-291-G, dated May 19, 2008

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	115 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Feature:	Flat
Spectral Response:	Ss = 0.22, S_1 = 0.06
Site Class:	D - Stiff Soil - Default

Conclusion

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

If you have any questions or require additional information, please contact American Tower Engineering via email at **Engineering@americantower.com.** Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.

Structure Usages

Structural Component	Usage	Control	Location	Result
Leg	43.0%	Member Z	Section 1	Pass
Diagonal	68.0%	Member Y	Section 2	Pass
Horizontal	32.0%	Member X	Section 3	Pass
Bolt	48.6%	-	Section 1	Pass
Foundation	71.0%	Uplift [Soil]	Node 1	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Uplift (k)	Shear (k)
Self Support Base (Global)	7,957.3	136.1	-	71.3
Self Support Base (Local)	-	207.4	147.6	28.9

Reactions shown are maximum overall and not limited by Load Case

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

VERIZON WIRELESS Final Loading

Elev (ft)	Qty	Equipment	Lines
146.0	1	Raycap RVZDC-6627-PF-48	(2) 1 1/4" Hybriflex Cable (6) 1 5/8" Coax
	2	Kaelus KA-6030	
	3	Samsung B2/B66A RRH ORAN (RF 4439d-25A)	
	3	Samsung B5/B13 RRH ORAN (RF4440d-13A)	
	3	Samsung MT6407-77A	
	3	Site Pro 1 VFA12-HD	
	6	JMA Wireless MX06FRO660-03	
145.0	-	-	(1) Waveguide

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier
193.0	3	Commscope VV-65A-R1	(3) 1.99" (50.7mm) Hybrid	T-MOBILE
	3	Ericsson 4460 BAND 2/25		
	3	Ericsson 4480 BAND 71		
	3	RFS APXVAALL24 43-U-NA20		
191.0	3	Ericsson AIR 6419 B41	-	T-MOBILE
187.5	1	Platform	-	-
	3	Side Arm		
	3	Mount Reinforcement		
172.5	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	-	SPRINT NEXTEL
171.9	3	Alcatel-Lucent 2X50W RRH w/o Filter	-	SPRINT NEXTEL
	3	Alcatel-Lucent ALU 800MHz External Notch Filter		
170.9	3	RFS APXV9TM14-ALU-I20*	-	SPRINT NEXTEL
170.4	3	RFS APXVSPP18-C-A20	-	SPRINT NEXTEL
170.3	1	Catwalk	-	-
168.8	3	Alcatel-Lucent 4x40W RRH (91 lb)	-	SPRINT NEXTEL
167.0	3	Light Sector Frame	-	SPRINT NEXTEL
160.0	2	Raycap DC9-48-60-24-8C-EV	(2) 0.40" (10.3mm) Fiber (2) 0.82" (20.8mm) 8 AWG 6 (4) 0.92" (23.4mm) Cable	AT&T MOBILITY
	3	CCI DMP65R-BU6DA		
	3	CCI OPA65RBU6DA		
	3	Ericsson RRUS 32 B2		
	3	Ericsson RRUS 4415 B30		
	3	Ericsson RRUS 4426 B66		
	3	Ericsson RRUS 4449 B5, B12		
	3	Ericsson RRUS 4478 B14		
	3	Ericsson RRUS 8843 B2, B66A		
	6	Kathrein Scala 860 10025		
155.8	3	Allgon 7770.00	-	AT&T MOBILITY
155.2	3	CCI HPA-65R-BUU-H6	-	AT&T MOBILITY
155.0	6	Powerwave Allgon LGP21401	(6) 1 5/8" Coax	AT&T MOBILITY
137.5	1	Rest Platform	-	-
137.0	1	Commscope RDIDC-9181-PF-48	(1) 1.75" (44.5mm) Hybrid	DISH WIRELESS L.L.C.
	3	Fujitsu TA08025-B604		
	3	Fujitsu TA08025-B605		
	3	Sector Frame		
	3	JMA Wireless MX08FRO665-21		

Elev (ft)	Qty	Equipment	Lines	Carrier
100.0	1	Platform	-	-
87.5	1	Rest Platform	-	-
82.0	1	Side Arm	-	-
80.0	1	Andrew DB616E-BC	(1) 7/8" Coax	US DEPT OF HOMELAND SECURITY
50.0	1	Rest Platform	-	-

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

Standard Conditions

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

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

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

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

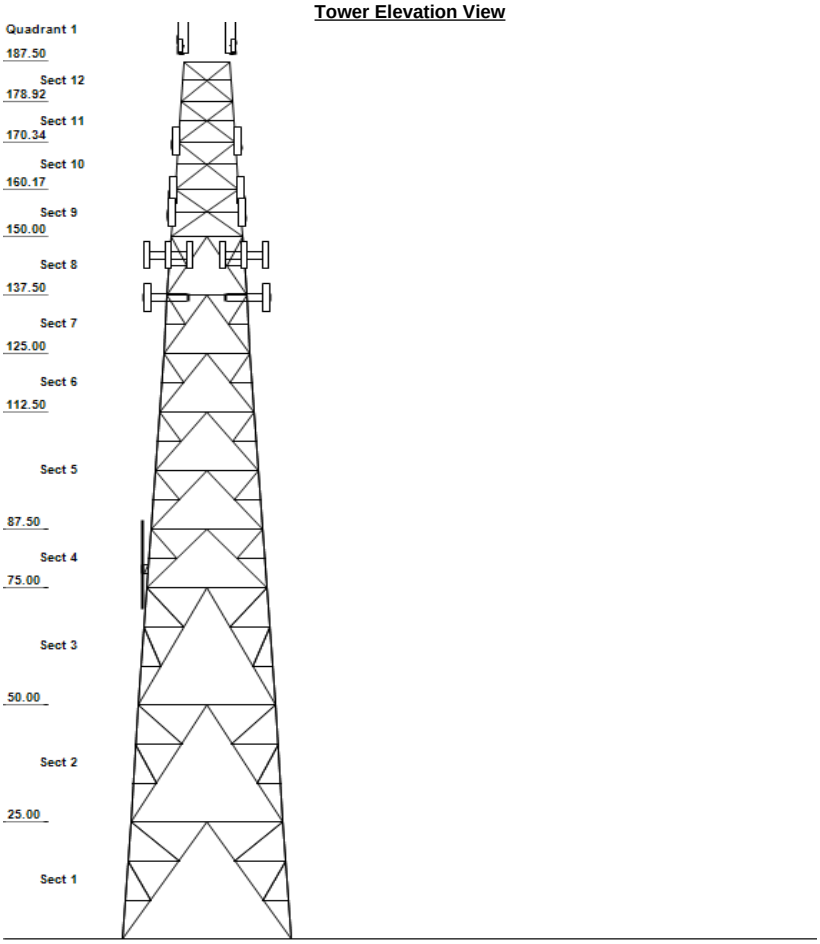
Unless explicitly agreed by both the client and A.T. Engineering Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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

ANALYSIS PARAMETERS

Nominal Wind:	115 mph	**Ice Wind:**	50 mph w/ 1" ice	**Service Wind:**	60 mph
Risk Category:	II	**Exposure:**	B	**S_s:** 0.224	**S_1:** 0.056
Topo Category:	1	**Topo Factor:**	Method 1	**Topo Feature:**	
Structure Height:	187.5 ft	**Base Elevation:**	0 ft	**Shape:**	Square
Base Width:	32.45 ft	**Top Width:**	9 ft		

Tower Elevation View



GLOBAL BASE REACTIONS

	DL+WL	DL+WL+IL
Moment (k-ft):	7957.28	2467.95
Axial (k):	136.14	239.45
Shear (k):	71.26	22.06

INDIVIDUAL BASE REACTIONS

Comp (k):	207.45
Uplift (k):	147.62
Shear (k):	28.94

TOWER SECTION PROPERTIES

Section	Leg Members	Diagonal Members	Horizontal Members
1	SAE 36 ksi 8X8X0.875	DAS 36 ksi 3.5X3X0.25	DAL 36 ksi 3X2.5X0.3125
2	SAE 36 ksi 8X8X0.75	DAS 36 ksi 3X2.5X0.25	DAL 36 ksi 3X2.5X0.25
3	SAE 36 ksi 8X8X0.75	DAS 36 ksi 3X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
4	SAE 36 ksi 6X6X0.875	DAE 36 ksi 2.5X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
5	SAE 36 ksi 6X6X0.75	DAE 36 ksi 2.5X2.5X0.25	DAE 36 ksi 2.5X2.5X0.25
6-7	SAE 36 ksi 6X6X0.5625	DAL 36 ksi 2.5X2X0.25	DAE 36 ksi 2.5X2.5X0.25
8	SAE 36 ksi 6X6X0.4375	DAL 36 ksi 2.5X2X0.25	DAE 36 ksi 2.5X2.5X0.25
9	SAE 36 ksi 5X5X0.4375	SAE 36 ksi 3.5x3.5x0.25	SAU 36 ksi 3X2.5X0.25
10	SAE 36 ksi 5X5X0.4375	SAE 36 ksi 3.5x3.5x0.25	DAL 36 ksi 3X2.5X0.25
11	SAE 36 ksi 5X5X0.3125	SAE 36 ksi 3X3X0.25	SAU 36 ksi 3X2.5X0.25
12	SAE 36 ksi 5X5X0.3125	SAE 36 ksi 3X3X0.25	CHN 36 ksi C8 x 11.5

SECONDARY BRACING MEMBERS

Section	Sub Diagonal 1	Sub Diagonal 2	Sub Diagonal 3
1 - 3	D2.5X2X0.1875	D2.5X2X0.1875	-
4 - 8	D2.5X2X0.1875	-	-

Section	Sub Horizontal 1	Sub Horizontal 2	Sub Horizontal 3
1 - 3	S2.5X2.5X0.187	S2.5X2.5X0.187	-
4 - 8	S2.5X2.5X0.187	-	-
9 - 12	S2X2X0.25	-	-

DISCRETE APPURTENANCE

Elev (ft)	Description
193.0	(3) Commscope VV-65A-R1
193.0	(3) Ericsson 4460 BAND 2/25
193.0	(3) Ericsson 4480 BAND 71
193.0	(3) RFS APXVAALL24 43-U-NA20
191.0	(3) Ericsson AIR 6419 B41
187.5	(3) Generic Flat Side Arm
187.5	(3) Generic Mount Reinforcement
187.5	(1) Platform
172.5	(3) Alcatel-Lucent TD-RRH8x20-25 w
171.9	(3) Alcatel-Lucent 2X50W RRH w/o F
171.9	(3) Alcatel-Lucent ALU 800MHz Exte
170.9	(3) RFS APXV9TM14-ALU-I20*
170.4	(3) RFS APXVSPP18-C-A20
170.3	(1) Catwalk
168.8	(3) Alcatel-Lucent 4x40W RRH (91 l
167.0	(3) Generic Flat Light Sector Fram
160.0	(6) Kathrein Scala 860 10025
160.0	(3) CCI OPA65RBU6DA
160.0	(3) CCI DMP65R-BU6DA
160.0	(3) Ericsson RRUS 4449 B5, B12
160.0	(3) Ericsson RRUS 4478 B14
160.0	(3) Ericsson RRUS 32 B2
160.0	(3) Ericsson RRUS 8843 B2, B66A
160.0	(3) Ericsson RRUS 4426 B66
160.0	(3) Ericsson RRUS 4415 B30
160.0	(2) Raycap DC9-48-60-24-8C-EV
155.8	(3) Allgon 7770.00
155.2	(3) CCI HPA-65R-BUU-H6
155.0	(6) Powerwave Allgon LGP21401
146.0	(6) JMA Wireless MX06FRO660-03
146.0	(3) Site Pro 1 VFA12-HD
146.0	(3) Samsung MT6407-77A
146.0	(3) Samsung B5/B13 RRH ORAN (RF444
146.0	(3) Samsung B2/B66A RRH ORAN (RF 4
146.0	(2) Kaelus KA-6030
146.0	(1) Raycap RVZDC-6627-PF-48
137.5	(1) Rest Platform
137.0	(3) Generic Round Sector Frame
137.0	(3) JMA Wireless MX08FRO665-21
137.0	(3) Fujitsu TA08025-B605
137.0	(3) Fujitsu TA08025-B604
137.0	(1) Commscope RDIDC-9181-PF-48
100.0	(1) Platform
87.5	(1) Rest Platform
82.0	(1) Generic Round Side Arm
80.0	(1) Andrew DB616E-BC
50.0	(1) Rest Platform

LINEAR APPURTENANCE

Elev To (ft)	Description
193.0	(3) 1.99" (50.7mm) Hybrid
190.0	(1) 7/8" Coax
187.5	(1) Waveguide
187.5	(1) Climbing Ladder
182.0	(1) Waveguide
172.0	(1) 1 1/4" (1.25"- 31.8mm) Fiber
171.0	(3) 1 1/4" Hybriflex Cable
160.0	(4) 0.92" (23.4mm) Cable
160.0	(2) 0.82" (20.8mm) 8 AWG 6
160.0	(2) 0.40" (10.3mm) Fiber
160.0	(1) Waveguide
155.0	(6) 1 5/8" Coax
146.0	(6) 1 5/8" Coax
146.0	(2) 1 1/4" Hybriflex Cable
145.0	(1) Waveguide
137.0	(1) Waveguide
137.0	(1) 1.75" (44.5mm) Hybrid
80.0	(1) 7/8" Coax
33.3	(4) Coax Cage

ANALYSIS PARAMETERS

Location:	Fairfield County, CT	**Height:**	187.5 ft
Type and Shape:	Self Support, Square	**Base Elevation:**	0.00 ft
Manufacturer:	AT&T TAG	**Bottom Face Width:**	32.45 ft
Kd	0.85	**Top Face Width:**	9.00 ft
Ke:	0.97	**Anchor Bolt Detail Type:**	c

ICE & WIND PARAMETERS

Exposure Category:	B	**Design Wind Speed Without Ice:**	115 mph
Risk Category:	II	**Design Wind Speed with Ice:**	50 mph
Topographic Factor Procedure:	Method 1	**Operational Windspeed:**	60 mph
Topographic Category:	Flat	**Design Ice Thickness:**	1.00 in
Crest Height:	0 ft	**HMSL:**	890 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil			**Period Based on Rayleigh Method (sec):**	0.67
T_L (sec):	6	**P:**	1.3	**C_s:**	0.045
S_s:	0.224	**S_1:**	0.056	**C_s Max:**	0.045
F_a:	1.600	**F_v:**	2.400	**C_s Min:**	0.030
S_{ds}:	0.239	**S_{d1}:**	0.090		

LOAD CASES

1.2D + 1.0W Normal	1.2D + 1.0W Normal - 115 mph Wind with No Ice
1.2D + 1.0W 45°	1.2D + 1.0W 45° - 115 mph Wind with No Ice
1.2D + 1.0W 90°	1.2D + 1.0W 90° - 115 mph Wind with No Ice
1.2D + 1.0W 135°	1.2D + 1.0W 135° - 115 mph Wind with No Ice
1.2D + 1.0W 180°	1.2D + 1.0W 180° - 115 mph Wind with No Ice
1.2D + 1.0W 225°	1.2D + 1.0W 225° - 115 mph Wind with No Ice
1.2D + 1.0W 270°	1.2D + 1.0W 270° - 115 mph Wind with No Ice
1.2D + 1.0W 315°	1.2D + 1.0W 315° - 115 mph Wind with No Ice
0.9D + 1.0W Normal	0.9D + 1.0W Normal - 115 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 45°	0.9D + 1.0W 45° - 115 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 90°	0.9D + 1.0W 90° - 115 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 135°	0.9D + 1.0W 135° - 115 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 180°	0.9D + 1.0W 180° - 115 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 225°	0.9D + 1.0W 225° - 115 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 270°	0.9D + 1.0W 270° - 115 mph Wind with No Ice (Reduced DL)
0.9D + 1.0W 315°	0.9D + 1.0W 315° - 115 mph Wind with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	1.2D + 1.0Di + 1.0Wi Normal - 50 mph Wind with 1" Radial Ice
1.2D + 1.0Di + 1.0Wi 45°	1.2D + 1.0Di + 1.0Wi 45° - 50 mph Wind with 1" Radial Ice
1.2D + 1.0Di + 1.0Wi 90°	1.2D + 1.0Di + 1.0Wi 90° - 50 mph Wind with 1" Radial Ice
1.2D + 1.0Di + 1.0Wi 135°	1.2D + 1.0Di + 1.0Wi 135° - 50 mph Wind with 1" Radial Ice
1.2D + 1.0Di + 1.0Wi 180°	1.2D + 1.0Di + 1.0Wi 180° - 50 mph Wind with 1" Radial Ice
1.2D + 1.0Di + 1.0Wi 225°	1.2D + 1.0Di + 1.0Wi 225° - 50 mph Wind with 1" Radial Ice
1.2D + 1.0Di + 1.0Wi 270°	1.2D + 1.0Di + 1.0Wi 270° - 50 mph Wind with 1" Radial Ice
1.2D + 1.0Di + 1.0Wi 315°	1.2D + 1.0Di + 1.0Wi 315° - 50 mph Wind with 1" Radial Ice
1.2D + 1.0Ev + 1.0Eh Normal	1.2D + 1.0Ev + 1.0Eh Normal - Seismic
1.2D + 1.0Ev + 1.0Eh 45°	1.2D + 1.0Ev + 1.0Eh 45° - Seismic

LOAD CASES	
1.2D + 1.0Ev + 1.0Eh 90°	1.2D + 1.0Ev + 1.0Eh 90° - Seismic
1.2D + 1.0Ev + 1.0Eh 135°	1.2D + 1.0Ev + 1.0Eh 135° - Seismic
1.2D + 1.0Ev + 1.0Eh 180°	1.2D + 1.0Ev + 1.0Eh 180° - Seismic
1.2D + 1.0Ev + 1.0Eh 225°	1.2D + 1.0Ev + 1.0Eh 225° - Seismic
1.2D + 1.0Ev + 1.0Eh 270°	1.2D + 1.0Ev + 1.0Eh 270° - Seismic
1.2D + 1.0Ev + 1.0Eh 315°	1.2D + 1.0Ev + 1.0Eh 315° - Seismic
0.9D - 1.0Ev + 1.0Eh Normal	0.9D - 1.0Ev + 1.0Eh Normal - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 45°	0.9D - 1.0Ev + 1.0Eh 45° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 90°	0.9D - 1.0Ev + 1.0Eh 90° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 135°	0.9D - 1.0Ev + 1.0Eh 135° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 180°	0.9D - 1.0Ev + 1.0Eh 180° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 225°	0.9D - 1.0Ev + 1.0Eh 225° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 270°	0.9D - 1.0Ev + 1.0Eh 270° - Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 315°	0.9D - 1.0Ev + 1.0Eh 315° - Seismic (Reduced DL)
1.0D + 1.0W Service Normal	1.0D + 1.0W Service Normal - 60 mph Wind with No Ice
1.0D + 1.0W Service 45°	1.0D + 1.0W Service 45° - 60 mph Wind with No Ice
1.0D + 1.0W Service 90°	1.0D + 1.0W Service 90° - 60 mph Wind with No Ice
1.0D + 1.0W Service 135°	1.0D + 1.0W Service 135° - 60 mph Wind with No Ice
1.0D + 1.0W Service 180°	1.0D + 1.0W Service 180° - 60 mph Wind with No Ice
1.0D + 1.0W Service 225°	1.0D + 1.0W Service 225° - 60 mph Wind with No Ice
1.0D + 1.0W Service 270°	1.0D + 1.0W Service 270° - 60 mph Wind with No Ice
1.0D + 1.0W Service 315°	1.0D + 1.0W Service 315° - 60 mph Wind with No Ice

TOWER LOADING – DISCRETE APPURTENANCE

Discrete Appurtenance Properties for LC: **1.2D + 1.0W**

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc. (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
193.0	Ericsson 4460 BAND 2/25	3	109	2.6	1.6	15.7	12.1	0.80	0.50	0.0	0.00	33.23	87	392
193.0	Ericsson 4480 BAND 71	3	81	2.9	1.8	15.7	7.5	0.80	0.50	0.0	0.00	33.23	98	292
193.0	Commscope VV-65A-R1	3	24	5.9	4.6	12.1	4.6	0.80	0.63	0.0	0.00	33.23	253	86
193.0	RFS APXVAALL24 43-U-NA20	3	123	20.2	8.0	24.0	8.5	0.80	0.63	0.0	0.00	33.23	864	442
191.0	Ericsson AIR 6419 B41	3	69	5.6	2.8	20.0	6.3	0.80	0.63	0.0	0.00	33.13	238	247
187.5	Generic Flat Side Arm	3	188	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.00	32.96	355	675
187.5	Generic Mount Reinforcement	3	200	7.5	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.96	630	720
187.5	Platform	1	8000	70.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.96	1961	9600
172.5	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.50	0.0	0.00	32.18	133	252
171.9	Alcatel-Lucent ALU 800MHz Exte	3	9	0.7	0.8	8.0	3.0	0.80	0.50	0.0	0.00	32.15	22	32
171.9	Alcatel-Lucent 2X50W RRH w/o F	3	53	2.1	1.6	13.0	8.6	0.80	0.50	0.0	0.00	32.15	67	191
170.9	RFS APXV9TM14-ALU-I20*	3	55	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.00	32.09	274	198
170.4	RFS APXVSPP18-C-A20	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.00	32.07	362	205
170.3	Catwalk	1	6500	55.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.06	1499	7800
168.8	Alcatel-Lucent 4x40W RRH (91 l	3	91	3.3	1.9	13.0	17.3	0.80	0.50	0.0	0.00	31.98	107	328
167.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	31.88	819	1440
160.0	Kathrein Scala 860 10025	6	1	0.2	0.6	2.4	2.0	1.00	0.50	0.0	0.00	31.50	13	9
160.0	Ericsson RRUS 8843 B2, B66A	3	72	1.6	1.2	13.2	10.9	1.00	0.50	0.0	0.00	31.50	66	259
160.0	Ericsson RRUS 4426 B66	3	48	1.6	1.3	13.2	5.8	1.00	0.50	0.0	0.00	31.50	66	174
160.0	Ericsson RRUS 4415 B30	3	46	1.8	1.4	13.4	5.9	1.00	0.50	0.0	0.00	31.50	74	166
160.0	Ericsson RRUS 4449 B5, B12	3	71	2.0	1.5	13.2	9.4	1.00	0.50	0.0	0.00	31.50	79	256
160.0	Ericsson RRUS 4478 B14	3	59	2.0	1.5	13.4	8.3	1.00	0.50	0.0	0.00	31.50	81	214
160.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	1.00	0.50	0.0	0.00	31.50	110	191
160.0	Raycap DC9-48-60-24-8C-EV	2	16	4.8	2.6	18.3	10.2	1.00	0.50	0.0	0.00	31.50	128	38
160.0	CCI DMP65R-BU6DA	3	79	12.7	5.9	20.7	7.7	1.00	0.63	0.0	0.00	31.50	643	286
160.0	CCI OPA65RBU6DA	3	60	12.9	5.9	21.0	7.8	1.00	0.63	0.0	0.00	31.50	651	217
155.8	Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	1.00	0.65	0.0	0.00	31.26	285	126
155.2	CCI HPA-65R-BUU-H6	3	51	9.7	6.0	14.8	9.0	1.00	0.69	0.0	0.00	31.22	531	184
155.0	Powerwave Allgon LGP21401	6	14	1.1	1.2	9.2	2.6	1.00	0.50	0.0	0.00	31.21	88	102
146.0	Kaelus KA-6030	2	18	1.0	0.9	10.9	3.2	0.80	0.50	0.0	0.00	30.68	20	42
146.0	Samsung B2/B66A RRH ORAN (RF 4	3	75	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	30.68	59	269
146.0	Samsung B5/B13 RRH ORAN (RF444	3	70	1.9	1.3	15.0	9.1	0.80	0.50	0.0	0.00	30.68	59	253
146.0	Raycap RVZDC-6627-PF-48	1	32	3.8	2.4	15.7	10.3	0.80	1.00	0.0	0.00	30.68	79	38
146.0	Samsung MT6407-77A	3	82	4.7	2.9	16.1	5.5	0.80	0.61	0.0	0.00	30.68	180	294
146.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	30.68	877	432
146.0	Site Pro 1 VFA12-HD	3	690	13.3	0.0	0.0	0.0	0.75	0.75	0.0	0.00	30.68	587	2484
137.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	30.16	385	600
137.0	Commscope RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	1.00	0.0	0.00	30.13	38	26
137.0	Fujitsu TA08025-B605	3	75	2.0	1.3	15.0	9.1	0.80	0.50	0.0	0.00	30.13	60	270
137.0	Fujitsu TA08025-B604	3	64	2.0	1.3	15.0	7.9	0.80	0.50	0.0	0.00	30.13	60	230
137.0	JMA Wireless MX08FRO665-21	3	65	12.5	6.0	20.0	8.0	0.80	0.64	0.0	0.00	30.13	491	232
137.0	Generic Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	30.13	622	1080
100.0	Platform	1	5500	45.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	27.54	1053	6600
87.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	26.51	338	600
82.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	26.02	115	225
80.0	Andrew DB616E-BC	1	51	6.7	19.3	3.5	3.5	1.00	1.00	0.0	0.00	25.84	148	61
50.0	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	22.59	288	600
	Totals	**128**	**32,880**	**906.5**									16,044	39,456

Discrete Appurtenance Properties for LC: **0.9D + 1.0W**

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc. (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
193.0	Ericsson 4460 BAND 2/25	3	109	2.6	1.6	15.7	12.1	0.80	0.50	0.0	0.00	33.23	87	294
193.0	Ericsson 4480 BAND 71	3	81	2.9	1.8	15.7	7.5	0.80	0.50	0.0	0.00	33.23	98	219
193.0	Commscope VV-65A-R1	3	24	5.9	4.6	12.1	4.6	0.80	0.63	0.0	0.00	33.23	253	64
193.0	RFS APXVAALL24 43-U-NA20	3	123	20.2	8.0	24.0	8.5	0.80	0.63	0.0	0.00	33.23	864	332
191.0	Ericsson AIR 6419 B41	3	69	5.6	2.8	20.0	6.3	0.80	0.63	0.0	0.00	33.13	238	185
187.5	Generic Flat Side Arm	3	188	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.00	32.96	355	506
187.5	Generic Mount Reinforcement	3	200	7.5	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.96	630	540
187.5	Platform	1	8000	70.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.96	1961	7200
172.5	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.50	0.0	0.00	32.18	133	189
171.9	Alcatel-Lucent ALU 800MHz Exte	3	9	0.7	0.8	8.0	3.0	0.80	0.50	0.0	0.00	32.15	22	24
171.9	Alcatel-Lucent 2X50W RRH w/o F	3	53	2.1	1.6	13.0	8.6	0.80	0.50	0.0	0.00	32.15	67	143
170.9	RFS APXV9TM14-ALU-I20*	3	55	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.00	32.09	274	149
170.4	RFS APXVSPP18-C-A20	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.00	32.07	362	154
170.3	Catwalk	1	6500	55.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	32.06	1499	5850
168.8	Alcatel-Lucent 4x40W RRH (91 l	3	91	3.3	1.9	13.0	17.3	0.80	0.50	0.0	0.00	31.98	107	246
167.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	31.88	819	1080
160.0	Kathrein Scala 860 10025	6	1	0.2	0.6	2.4	2.0	1.00	0.50	0.0	0.00	31.50	13	6
160.0	Ericsson RRUS 8843 B2, B66A	3	72	1.6	1.2	13.2	10.9	1.00	0.50	0.0	0.00	31.50	66	194
160.0	Ericsson RRUS 4426 B66	3	48	1.6	1.3	13.2	5.8	1.00	0.50	0.0	0.00	31.50	66	131
160.0	Ericsson RRUS 4415 B30	3	46	1.8	1.4	13.4	5.9	1.00	0.50	0.0	0.00	31.50	74	124
160.0	Ericsson RRUS 4449 B5, B12	3	71	2.0	1.5	13.2	9.4	1.00	0.50	0.0	0.00	31.50	79	192
160.0	Ericsson RRUS 4478 B14	3	59	2.0	1.5	13.4	8.3	1.00	0.50	0.0	0.00	31.50	81	160
160.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	1.00	0.50	0.0	0.00	31.50	110	143

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc. (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
160.0	Raycap DC9-48-60-24-8C-EV	2	16	4.8	2.6	18.3	10.2	1.00	0.50	0.0	0.00	31.50	128	29
160.0	CCI DMP65R-BU6DA	3	79	12.7	5.9	20.7	7.7	1.00	0.63	0.0	0.00	31.50	643	214
160.0	CCI OPA65RBU6DA	3	60	12.9	5.9	21.0	7.8	1.00	0.63	0.0	0.00	31.50	651	163
155.8	Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	1.00	0.65	0.0	0.00	31.26	285	94
155.2	CCI HPA-65R-BUU-H6	3	51	9.7	6.0	14.8	9.0	1.00	0.69	0.0	0.00	31.22	531	138
155.0	Powerwave Allgon LGP21401	6	14	1.1	1.2	9.2	2.6	1.00	0.50	0.0	0.00	31.21	88	76
146.0	Kaelus KA-6030	2	18	1.0	0.9	10.9	3.2	0.80	0.50	0.0	0.00	30.68	20	32
146.0	Samsung B2/B66A RRH ORAN (RF 4	3	75	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	30.68	59	202
146.0	Samsung B5/B13 RRH ORAN (RF444	3	70	1.9	1.3	15.0	9.1	0.80	0.50	0.0	0.00	30.68	59	190
146.0	Raycap RVZDC-6627-PF-48	1	32	3.8	2.4	15.7	10.3	0.80	1.00	0.0	0.00	30.68	79	29
146.0	Samsung MT6407-77A	3	82	4.7	2.9	16.1	5.5	0.80	0.61	0.0	0.00	30.68	180	220
146.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	30.68	877	324
146.0	Site Pro 1 VFA12-HD	3	690	13.3	0.0	0.0	0.0	0.75	0.75	0.0	0.00	30.68	587	1863
137.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	30.16	385	450
137.0	Commscope RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	1.00	0.0	0.00	30.13	38	20
137.0	Fujitsu TA08025-B605	3	75	2.0	1.3	15.0	9.1	0.80	0.50	0.0	0.00	30.13	60	202
137.0	Fujitsu TA08025-B604	3	64	2.0	1.3	15.0	7.9	0.80	0.50	0.0	0.00	30.13	60	173
137.0	JMA Wireless MX08FRO665-21	3	65	12.5	6.0	20.0	8.0	0.80	0.64	0.0	0.00	30.13	491	174
137.0	Generic Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	30.13	622	810
100.0	Platform	1	5500	45.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	27.54	1053	4950
87.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	26.51	338	450
82.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	26.02	115	169
80.0	Andrew DB616E-BC	1	51	6.7	19.3	3.5	3.5	1.00	1.00	0.0	0.00	25.84	148	46
50.0	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	22.59	288	450
	Totals	**128**	**32,880**	**906.5**									16,044	29,592

Discrete Appurtenance Properties for LC: **1.2D + 1.0Di + 1.0Wi**

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc. (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
193.0	Ericsson 4460 BAND 2/25	3	169	3.3	1.6	15.7	12.1	0.80	0.50	0.0	0.00	6.28	21	573
193.0	Ericsson 4480 BAND 71	3	133	3.6	1.8	15.7	7.5	0.80	0.50	0.0	0.00	6.28	23	447
193.0	Commscope VV-65A-R1	3	104	7.4	4.6	12.1	4.6	0.80	0.63	0.0	0.00	6.28	60	326
193.0	RFS APXVAALL24 43-U-NA20	3	388	22.8	8.0	24.0	8.5	0.80	0.63	0.0	0.00	6.28	184	1238
191.0	Ericsson AIR 6419 B41	3	151	6.7	2.8	20.0	6.3	0.80	0.63	0.0	0.00	6.26	54	494
187.5	Generic Flat Side Arm	3	278	8.4	0.0	0.0	0.0	1.00	0.67	0.0	0.00	6.23	90	947
187.5	Generic Mount Reinforcement	3	332	12.6	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.23	200	1116
187.5	Platform	1	11912	90.9	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.23	482	13512
172.5	Alcatel-Lucent TD-RRH8x20-25 w	3	134	4.9	2.2	18.6	6.7	0.80	0.50	0.0	0.00	6.08	31	443
171.9	Alcatel-Lucent ALU 800MHz Exte	3	21	1.0	0.8	8.0	3.0	0.80	0.50	0.0	0.00	6.08	6	67
171.9	Alcatel-Lucent 2X50W RRH w/o F	3	96	2.7	1.6	13.0	8.6	0.80	0.50	0.0	0.00	6.08	17	320
170.9	RFS APXV9TM14-ALU-I20*	3	148	7.8	4.7	12.6	6.3	0.80	0.66	0.0	0.00	6.07	64	477
170.4	RFS APXVSPP18-C-A20	3	173	9.9	6.0	11.8	7.0	0.80	0.69	0.0	0.00	6.06	85	554
170.3	Catwalk	1	9616	73.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.06	378	10916
168.8	Alcatel-Lucent 4x40W RRH (91 l	3	165	4.1	1.9	13.0	17.3	0.80	0.50	0.0	0.00	6.05	25	549
167.0	Generic Flat Light Sector Fram	3	603	28.1	0.0	0.0	0.0	0.75	0.75	0.0	0.00	6.03	243	2049
160.0	Kathrein Scala 860 10025	6	5	0.4	0.6	2.4	2.0	1.00	0.50	0.0	0.00	5.95	6	33
160.0	Ericsson RRUS 8843 B2, B66A	3	113	2.2	1.2	13.2	10.9	1.00	0.50	0.0	0.00	5.95	17	382
160.0	Ericsson RRUS 4426 B66	3	78	2.2	1.3	13.2	5.8	1.00	0.50	0.0	0.00	5.95	17	264
160.0	Ericsson RRUS 4415 B30	3	79	2.4	1.4	13.4	5.9	1.00	0.50	0.0	0.00	5.95	19	264
160.0	Ericsson RRUS 4449 B5, B12	3	114	2.6	1.5	13.2	9.4	1.00	0.50	0.0	0.00	5.95	20	385
160.0	Ericsson RRUS 4478 B14	3	101	2.7	1.5	13.4	8.3	1.00	0.50	0.0	0.00	5.95	20	337
160.0	Ericsson RRUS 32 B2	3	102	3.5	2.3	12.1	7.0	1.00	0.50	0.0	0.00	5.95	27	339
160.0	Raycap DC9-48-60-24-8C-EV	2	103	5.8	2.6	18.3	10.2	1.00	0.50	0.0	0.00	5.95	29	211
160.0	CCI DMP65R-BU6DA	3	252	14.6	5.9	20.7	7.7	1.00	0.63	0.0	0.00	5.95	139	804
160.0	CCI OPA65RBU6DA	3	235	14.7	5.9	21.0	7.8	1.00	0.63	0.0	0.00	5.95	141	742
155.8	Allgon 7770.00	3	119	6.2	4.6	11.0	5.0	1.00	0.65	0.0	0.00	5.91	61	377
155.2	CCI HPA-65R-BUU-H6	3	198	11.5	6.0	14.8	9.0	1.00	0.69	0.0	0.00	5.90	120	625
155.0	Powerwave Allgon LGP21401	6	31	1.6	1.2	9.2	2.6	1.00	0.50	0.0	0.00	5.90	24	201
146.0	Kaelus KA-6030	2	33	1.4	0.9	10.9	3.2	0.80	0.50	0.0	0.00	5.80	6	74
146.0	Samsung B2/B66A RRH ORAN (RF 4	3	117	2.5	1.3	15.0	10.0	0.80	0.50	0.0	0.00	5.80	15	396
146.0	Samsung B5/B13 RRH ORAN (RF444	3	111	2.5	1.3	15.0	9.1	0.80	0.50	0.0	0.00	5.80	15	377
146.0	Raycap RVZDC-6627-PF-48	1	105	4.7	2.4	15.7	10.3	0.80	1.00	0.0	0.00	5.80	18	111
146.0	Samsung MT6407-77A	3	149	5.7	2.9	16.1	5.5	0.80	0.61	0.0	0.00	5.80	41	497
146.0	JMA Wireless MX06FRO660-03	6	219	11.7	5.9	15.4	10.7	0.80	0.71	0.0	0.00	5.80	197	1389
146.0	Site Pro 1 VFA12-HD	3	1355	22.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	5.80	186	4480
137.5	Rest Platform	1	748	23.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.70	113	848
137.0	Commscope RDIDC-9181-PF-48	1	59	2.5	1.3	14.0	8.0	0.80	1.00	0.0	0.00	5.70	10	64
137.0	Fujitsu TA08025-B605	3	116	2.6	1.3	15.0	9.1	0.80	0.50	0.0	0.00	5.70	15	394
137.0	Fujitsu TA08025-B604	3	102	2.6	1.3	15.0	7.9	0.80	0.50	0.0	0.00	5.70	15	345
137.0	JMA Wireless MX08FRO665-21	3	234	14.3	6.0	20.0	8.0	0.80	0.64	0.0	0.00	5.70	107	740
137.0	Generic Round Sector Frame	3	542	25.3	0.0	0.0	0.0	0.75	0.75	0.0	0.00	5.70	207	1807
100.0	Platform	1	8007	59.3	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.21	262	9107
87.5	Rest Platform	1	736	22.9	0.0	0.0	0.0	1.00	1.00	0.0	0.00	5.01	98	836
82.0	Generic Round Side Arm	1	245	6.9	0.0	0.0	0.0	1.00	1.00	0.0	0.00	4.92	29	282
80.0	Andrew DB616E-BC	1	152	10.9	19.3	3.5	3.5	1.00	1.00	0.0	0.00	4.88	45	163
50.0	Rest Platform	1	719	22.4	0.0	0.0	0.0	1.00	1.00	0.0	0.00	4.27	81	819
	Totals	**128**	**55,148**	**1205.0**									4058	61,724

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc. (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)

Discrete Appurtenance Properties for LC: **1.0D + 1.0W Service**

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc. (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
193.0	Ericsson 4460 BAND 2/25	3	109	2.6	1.6	15.7	12.1	0.80	0.50	0.0	0.00	9.05	24	327
193.0	Ericsson 4480 BAND 71	3	81	2.9	1.8	15.7	7.5	0.80	0.50	0.0	0.00	9.05	27	243
193.0	Commscope VV-65A-R1	3	24	5.9	4.6	12.1	4.6	0.80	0.63	0.0	0.00	9.05	69	71
193.0	RFS APXVAALL24 43-U-NA20	3	123	20.2	8.0	24.0	8.5	0.80	0.63	0.0	0.00	9.05	235	368
191.0	Ericsson AIR 6419 B41	3	69	5.6	2.8	20.0	6.3	0.80	0.63	0.0	0.00	9.02	65	206
187.5	Generic Flat Side Arm	3	188	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.00	8.97	97	562
187.5	Generic Mount Reinforcement	3	200	7.5	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.97	172	600
187.5	Platform	1	8000	70.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.97	534	8000
172.5	Alcatel-Lucent TD-RRH8x20-25 w	3	70	4.0	2.2	18.6	6.7	0.80	0.50	0.0	0.00	8.76	36	210
171.9	Alcatel-Lucent ALU 800MHz Exte	3	9	0.7	0.8	8.0	3.0	0.80	0.50	0.0	0.00	8.75	6	26
171.9	Alcatel-Lucent 2X50W RRH w/o F	3	53	2.1	1.6	13.0	8.6	0.80	0.50	0.0	0.00	8.75	18	159
170.9	RFS APXV9TM14-ALU-I20*	3	55	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.00	8.74	75	165
170.4	RFS APXVSPP18-C-A20	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.00	8.73	99	171
170.3	Catwalk	1	6500	55.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.73	408	6500
168.8	Alcatel-Lucent 4x40W RRH (91 l	3	91	3.3	1.9	13.0	17.3	0.80	0.50	0.0	0.00	8.71	29	273
167.0	Generic Flat Light Sector Fram	3	400	17.9	0.0	0.0	0.0	0.75	0.75	0.0	0.00	8.68	223	1200
160.0	Kathrein Scala 860 10025	6	1	0.2	0.6	2.4	2.0	1.00	0.50	0.0	0.00	8.57	3	7
160.0	Ericsson RRUS 8843 B2, B66A	3	72	1.6	1.2	13.2	10.9	1.00	0.50	0.0	0.00	8.57	18	216
160.0	Ericsson RRUS 4426 B66	3	48	1.6	1.3	13.2	5.8	1.00	0.50	0.0	0.00	8.57	18	145
160.0	Ericsson RRUS 4415 B30	3	46	1.8	1.4	13.4	5.9	1.00	0.50	0.0	0.00	8.57	20	138
160.0	Ericsson RRUS 4449 B5, B12	3	71	2.0	1.5	13.2	9.4	1.00	0.50	0.0	0.00	8.57	22	213
160.0	Ericsson RRUS 4478 B14	3	59	2.0	1.5	13.4	8.3	1.00	0.50	0.0	0.00	8.57	22	178
160.0	Ericsson RRUS 32 B2	3	53	2.7	2.3	12.1	7.0	1.00	0.50	0.0	0.00	8.57	30	159
160.0	Raycap DC9-48-60-24-8C-EV	2	16	4.8	2.6	18.3	10.2	1.00	0.50	0.0	0.00	8.57	35	32
160.0	CCI DMP65R-BU6DA	3	79	12.7	5.9	20.7	7.7	1.00	0.63	0.0	0.00	8.57	175	238
160.0	CCI OPA65RBU6DA	3	60	12.9	5.9	21.0	7.8	1.00	0.63	0.0	0.00	8.57	177	181
155.8	Allgon 7770.00	3	35	5.5	4.6	11.0	5.0	1.00	0.65	0.0	0.00	8.51	78	105
155.2	CCI HPA-65R-BUU-H6	3	51	9.7	6.0	14.8	9.0	1.00	0.69	0.0	0.00	8.50	144	153
155.0	Powerwave Allgon LGP21401	6	14	1.1	1.2	9.2	2.6	1.00	0.50	0.0	0.00	8.50	24	85
146.0	Kaelus KA-6030	2	18	1.0	0.9	10.9	3.2	0.80	0.50	0.0	0.00	8.35	5	35
146.0	Samsung B2/B66A RRH ORAN (RF 4	3	75	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.00	8.35	16	224
146.0	Samsung B5/B13 RRH ORAN (RF444	3	70	1.9	1.3	15.0	9.1	0.80	0.50	0.0	0.00	8.35	16	211
146.0	Raycap RVZDC-6627-PF-48	1	32	3.8	2.4	15.7	10.3	0.80	1.00	0.0	0.00	8.35	21	32
146.0	Samsung MT6407-77A	3	82	4.7	2.9	16.1	5.5	0.80	0.61	0.0	0.00	8.35	49	245
146.0	JMA Wireless MX06FRO660-03	6	60	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.00	8.35	239	360
146.0	Site Pro 1 VFA12-HD	3	690	13.3	0.0	0.0	0.0	0.75	0.75	0.0	0.00	8.35	160	2070
137.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	8.21	105	500
137.0	Commscope RDIDC-9181-PF-48	1	22	1.9	1.3	14.0	8.0	0.80	1.00	0.0	0.00	8.20	10	22
137.0	Fujitsu TA08025-B605	3	75	2.0	1.3	15.0	9.1	0.80	0.50	0.0	0.00	8.20	16	225
137.0	Fujitsu TA08025-B604	3	64	2.0	1.3	15.0	7.9	0.80	0.50	0.0	0.00	8.20	16	192
137.0	JMA Wireless MX08FRO665-21	3	65	12.5	6.0	20.0	8.0	0.80	0.64	0.0	0.00	8.20	134	194
137.0	Generic Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.00	8.20	169	900
100.0	Platform	1	5500	45.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.50	287	5500
87.5	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.22	92	500
82.0	Generic Round Side Arm	1	188	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.00	7.08	31	188
80.0	Andrew DB616E-BC	1	51	6.7	19.3	3.5	3.5	1.00	1.00	0.0	0.00	7.03	40	51
50.0	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.00	6.15	78	500
	Totals	**128**	**32,880**	**906.5**									4,367	32,880

TOWER LOADING – LINEAR APPURTENANCE

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient. Factor	K_a Override
8.3	33.3	Coax Cage	4	12.00	25.00	100	1,2,3,4	Individual	0.00	N	1.00	1.00	0.00
0.0	193.0	1.99" (50.7mm) Hybrid	3	1.99	1.90	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	190.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	187.5	Climbing Ladder	1	2.00	6.90	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	187.5	Waveguide	1	2.00	6.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	182.0	Waveguide	1	2.00	6.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	172.0	1 1/4" (1.25"- 31.8mm) Fiber	1	1.25	1.05	100	1	Individual	0.00	N	1.00	1.00	0.00
0.0	171.0	1 1/4" Hybriflex Cable	3	1.54	1.00	33	1	Block	0.00	N	1.00	1.00	0.00
0.0	160.0	Waveguide	1	2.00	6.00	100	4	Individual	0.00	N	1.00	1.00	0.00
0.0	160.0	0.82" (20.8mm) 8 AWG 6	2	0.82	0.62	100	4	Individual	0.00	N	1.00	1.00	0.00
0.0	160.0	0.92" (23.4mm) Cable	4	0.92	0.89	100	4	Individual	0.00	N	1.00	1.00	0.00
0.0	160.0	0.40" (10.3mm) Fiber	2	0.40	0.09	100	4	Individual	0.00	N	1.00	1.00	0.00
0.0	155.0	1 5/8" Coax	6	1.98	0.82	100	4	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	1 5/8" Coax	6	1.98	0.82	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	146.0	1 1/4" Hybriflex Cable	2	1.54	1.00	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	145.0	Waveguide	1	2.00	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	137.0	1.75" (44.5mm) Hybrid	1	1.75	2.72	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	137.0	Waveguide	1	2.00	6.00	100	2	Individual	0.00	N	1.00	1.00	0.00
0.0	80.0	7/8" Coax	1	1.09	0.33	100	1	Individual	0.00	N	1.00	1.00	0.00

SECTION FORCES

1.2D + 1.0W Normal — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	2342	0	1668	214	1882
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1943	0	1545	247	1792
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	3052	0	1897	334	2230
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2909	0	1981	573	2553
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	4690	0	2254	1046	3300
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	5377	0	2292	1228	3520
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	5581	0	2319	1197	3516
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	12954	0	4672	2280	6952
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	7072	0	2318	1082	3400
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	14525	0	5552	2027	7579
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	16306	0	5112	2104	7216
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	19937	0	5161	2307	7468
													Totals	**96,688**	**0**			**51,409**

1.2D + 1.0W 45° — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	2342	0	1986	214	2200
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1943	0	1776	247	2023
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	3052	0	2161	334	2495
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2909	0	2243	573	2816
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	4690	0	2496	1046	3542
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	5377	0	2522	1228	3750
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	5581	0	2537	1197	3735
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	12954	0	5078	2280	7358
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	7072	0	2506	1082	3588
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	14525	0	6093	2027	8120
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	16306	0	5579	2104	7683
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	19937	0	5615	2307	7922
													Totals	**96,688**	**0**			**55,233**

1.2D + 1.0W 90° — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	2342	0	1668	214	1882
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1943	0	1545	247	1792
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	3052	0	1897	334	2230
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2909	0	1981	573	2553
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	4690	0	2254	1046	3300
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	5377	0	2292	1228	3520
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	5581	0	2319	1197	3516
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	12954	0	4672	2280	6952
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	7072	0	2318	1082	3400
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	14525	0	5552	2027	7579
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	16306	0	5112	2104	7216
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	19937	0	5161	2307	7468
													Totals	**96,688**	**0**			**51,409**

1.2D + 1.0W 135° — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	2342	0	1986	214	2200
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1943	0	1776	247	2023
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	3052	0	2161	334	2495
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2909	0	2243	573	2816
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	4690	0	2496	1046	3542
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	5377	0	2522	1228	3750
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	5581	0	2537	1197	3735
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	12954	0	5078	2280	7358
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	7072	0	2506	1082	3588
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	14525	0	6093	2027	8120
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	16306	0	5579	2104	7683
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	19937	0	5615	2307	7922
													Totals	**96,688**	**0**			**55,233**

1.2D + 1.0W 180° — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	2342	0	1668	214	1882

SECTION FORCES

1.2D + 1.0W 180° Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1943	0	1545	247	1792
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	3052	0	1897	334	2230
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2909	0	1981	573	2553
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	4690	0	2254	1046	3300
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	5377	0	2292	1228	3520
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	5581	0	2319	1197	3516
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	12954	0	4672	2280	6952
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	7072	0	2318	1082	3400
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	14525	0	5552	2027	7579
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	16306	0	5112	2104	7216
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	19937	0	5161	2307	7468
													Totals	**96,688**	**0**			**51,409**

1.2D + 1.0W 225° Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	2342	0	1986	214	2200
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1943	0	1776	247	2023
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	3052	0	2161	334	2495
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2909	0	2243	573	2816
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	4690	0	2496	1046	3542
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	5377	0	2522	1228	3750
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	5581	0	2537	1197	3735
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	12954	0	5078	2280	7358
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	7072	0	2506	1082	3588
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	14525	0	6093	2027	8120
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	16306	0	5579	2104	7683
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	19937	0	5615	2307	7922
													Totals	**96,688**	**0**			**55,233**

1.2D + 1.0W 270° Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	2342	0	1668	214	1882
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1943	0	1545	247	1792
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	3052	0	1897	334	2230
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2909	0	1981	573	2553
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	4690	0	2254	1046	3300
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	5377	0	2292	1228	3520
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	5581	0	2319	1197	3516
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	12954	0	4672	2280	6952
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	7072	0	2318	1082	3400
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	14525	0	5552	2027	7579
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	16306	0	5112	2104	7216
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	19937	0	5161	2307	7468
													Totals	**96,688**	**0**			**51,409**

1.2D + 1.0W 315° Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	2342	0	1986	214	2200
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1943	0	1776	247	2023
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	3052	0	2161	334	2495
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2909	0	2243	573	2816
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	4690	0	2496	1046	3542
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	5377	0	2522	1228	3750
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	5581	0	2537	1197	3735
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	12954	0	5078	2280	7358
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	7072	0	2506	1082	3588
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	14525	0	6093	2027	8120
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	16306	0	5579	2104	7683
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	19937	0	5615	2307	7922
													Totals	**96,688**	**0**			**55,233**

0.9D + 1.0W Normal Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1757	0	1668	214	1882
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1457	0	1545	247	1792

SECTION FORCES

0.9D + 1.0W Normal — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2289	0	1897	334	2230
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2182	0	1981	573	2553
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3518	0	2254	1046	3300
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4033	0	2292	1228	3520
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4186	0	2319	1197	3516
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	9716	0	4672	2280	6952
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5304	0	2318	1082	3400
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	10894	0	5552	2027	7579
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	12229	0	5112	2104	7216
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	14953	0	5161	2307	7468
													Totals	**72,516**	**0**			**51,409**

0.9D + 1.0W 45° — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1757	0	1986	214	2200
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1457	0	1776	247	2023
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2289	0	2161	334	2495
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2182	0	2243	573	2816
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3518	0	2496	1046	3542
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4033	0	2522	1228	3750
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4186	0	2537	1197	3735
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	9716	0	5078	2280	7358
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5304	0	2506	1082	3588
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	10894	0	6093	2027	8120
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	12229	0	5579	2104	7683
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	14953	0	5615	2307	7922
													Totals	**72,516**	**0**			**55,233**

0.9D + 1.0W 90° — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1757	0	1668	214	1882
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1457	0	1545	247	1792
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2289	0	1897	334	2230
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2182	0	1981	573	2553
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3518	0	2254	1046	3300
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4033	0	2292	1228	3520
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4186	0	2319	1197	3516
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	9716	0	4672	2280	6952
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5304	0	2318	1082	3400
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	10894	0	5552	2027	7579
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	12229	0	5112	2104	7216
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	14953	0	5161	2307	7468
													Totals	**72,516**	**0**			**51,409**

0.9D + 1.0W 135° — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1757	0	1986	214	2200
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1457	0	1776	247	2023
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2289	0	2161	334	2495
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2182	0	2243	573	2816
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3518	0	2496	1046	3542
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4033	0	2522	1228	3750
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4186	0	2537	1197	3735
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	9716	0	5078	2280	7358
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5304	0	2506	1082	3588
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	10894	0	6093	2027	8120
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	12229	0	5579	2104	7683
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	14953	0	5615	2307	7922
													Totals	**72,516**	**0**			**55,233**

0.9D + 1.0W 180° — Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1757	0	1668	214	1882
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1457	0	1545	247	1792
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2289	0	1897	334	2230

SECTION FORCES

0.9D + 1.0W 180° Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2182	0	1981	573	2553
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3518	0	2254	1046	3300
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4033	0	2292	1228	3520
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4186	0	2319	1197	3516
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	9716	0	4672	2280	6952
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5304	0	2318	1082	3400
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	10894	0	5552	2027	7579
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	12229	0	5112	2104	7216
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	14953	0	5161	2307	7468
													Totals	**72,516**	**0**			**51,409**

0.9D + 1.0W 225° Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1757	0	1986	214	2200
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1457	0	1776	247	2023
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2289	0	2161	334	2495
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2182	0	2243	573	2816
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3518	0	2496	1046	3542
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4033	0	2522	1228	3750
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4186	0	2537	1197	3735
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	9716	0	5078	2280	7358
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5304	0	2506	1082	3588
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	10894	0	6093	2027	8120
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	12229	0	5579	2104	7683
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	14953	0	5615	2307	7922
													Totals	**72,516**	**0**			**55,233**

0.9D + 1.0W 270° Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1757	0	1668	214	1882
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1457	0	1545	247	1792
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2289	0	1897	334	2230
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2182	0	1981	573	2553
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3518	0	2254	1046	3300
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4033	0	2292	1228	3520
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4186	0	2319	1197	3516
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	9716	0	4672	2280	6952
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5304	0	2318	1082	3400
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	10894	0	5552	2027	7579
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	12229	0	5112	2104	7216
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	14953	0	5161	2307	7468
													Totals	**72,516**	**0**			**51,409**

0.9D + 1.0W 315° Gust Response Factor (Gh): 0.85
115 mph Wind with No Ice (Reduced DL) Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	32.74	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1757	0	1986	214	2200
11	175	32.29	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1457	0	1776	247	2023
10	165	31.79	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2289	0	2161	334	2495
9	155	31.22	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2182	0	2243	573	2816
8	144	30.55	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3518	0	2496	1046	3542
7	131	29.76	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4033	0	2522	1228	3750
6	119	28.92	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4186	0	2537	1197	3735
5	100	27.54	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	9716	0	5078	2280	7358
4	81	25.95	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5304	0	2506	1082	3588
3	62	24.08	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	10894	0	6093	2027	8120
2	38	20.81	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	12229	0	5579	2104	7683
1	12	19.51	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	14953	0	5615	2307	7922
													Totals	**72,516**	**0**			**55,233**

1.2D + 1.0Di + 1.0Wi Normal Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.00	1.00	1.2	32.01	75.92	10.27	4621	2279	399	94	493
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.00	1.00	1.2	29.63	75.96	10.75	4016	2073	394	112	506
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.00	1.00	1.2	35.37	94.06	12.28	5945	2893	480	158	638
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.00	1.00	1.2	37.05	100.46	12.83	6040	3131	504	316	820

SECTION FORCES

1.2D + 1.0Di + 1.0Wi Normal — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.00	1.00	1.2	39.97	117.26	13.15	9704	5014	576	590	1166
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.00	1.00	1.1	41.09	123.05	13.49	10792	5415	588	685	1273
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.00	1.00	1.1	42.21	128.62	13.83	11118	5538	598	671	1269
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.00	1.00	1.1	87.82	273.23	28.59	24470	11516	1209	1281	2490
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.00	1.00	1.1	45.55	144.14	14.71	12977	5905	601	609	1210
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.00	1.00	1.1	105.24	329.86	23.06	26724	12199	1276	1122	2398
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.00	1.00	1.0	109.21	348.60	22.69	29013	12707	1165	1084	2250
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.00	1.00	0.9	113.62	367.72	21.05	32303	12366	1152	1096	2249
													Totals	**177,724**	**81,036**			**16,763**

1.2D + 1.0Di + 1.0Wi 45° — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.20	1.20	1.2	38.41	91.11	10.27	4621	2279	479	94	573
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.20	1.20	1.2	35.56	91.15	10.75	4016	2073	473	112	585
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.20	1.20	1.2	42.44	112.87	12.28	5945	2893	577	158	734
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.20	1.20	1.2	44.46	120.55	12.83	6040	3131	605	316	921
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.16	1.16	1.2	46.29	135.81	13.15	9704	5014	667	590	1257
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.15	1.15	1.1	47.14	141.19	13.49	10792	5415	675	685	1360
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.14	1.14	1.1	48.06	146.43	13.83	11118	5538	681	671	1351
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.13	1.13	1.1	99.04	308.13	28.59	24470	11516	1363	1281	2645
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.12	1.12	1.1	50.97	161.29	14.71	12977	5905	673	609	1281
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.12	1.12	1.1	118.29	370.75	23.06	26724	12199	1434	1122	2556
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.11	1.11	1.0	121.73	388.54	22.69	29013	12707	1299	1084	2384
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.11	1.11	0.9	125.84	407.26	21.05	32303	12366	1276	1096	2373
													Totals	**177,724**	**81,036**			**18,020**

1.2D + 1.0Di + 1.0Wi 90° — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.00	1.00	1.2	32.01	75.92	10.27	4621	2279	399	94	493
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.00	1.00	1.2	29.63	75.96	10.75	4016	2073	394	112	506
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.00	1.00	1.2	35.37	94.06	12.28	5945	2893	480	158	638
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.00	1.00	1.2	37.05	100.46	12.83	6040	3131	504	316	820
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.00	1.00	1.2	39.97	117.26	13.15	9704	5014	576	590	1166
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.00	1.00	1.1	41.09	123.05	13.49	10792	5415	588	685	1273
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.00	1.00	1.1	42.21	128.62	13.83	11118	5538	598	671	1269
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.00	1.00	1.1	87.82	273.23	28.59	24470	11516	1209	1281	2490
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.00	1.00	1.1	45.55	144.14	14.71	12977	5905	601	609	1210
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.00	1.00	1.1	105.24	329.86	23.06	26724	12199	1276	1122	2398
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.00	1.00	1.0	109.21	348.60	22.69	29013	12707	1165	1084	2250
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.00	1.00	0.9	113.62	367.72	21.05	32303	12366	1152	1096	2249
													Totals	**177,724**	**81,036**			**16,763**

1.2D + 1.0Di + 1.0Wi 135° — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.20	1.20	1.2	38.41	91.11	10.27	4621	2279	479	94	573
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.20	1.20	1.2	35.56	91.15	10.75	4016	2073	473	112	585
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.20	1.20	1.2	42.44	112.87	12.28	5945	2893	577	158	734
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.20	1.20	1.2	44.46	120.55	12.83	6040	3131	605	316	921
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.16	1.16	1.2	46.29	135.81	13.15	9704	5014	667	590	1257
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.15	1.15	1.1	47.14	141.19	13.49	10792	5415	675	685	1360
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.14	1.14	1.1	48.06	146.43	13.83	11118	5538	681	671	1351
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.13	1.13	1.1	99.04	308.13	28.59	24470	11516	1363	1281	2645
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.12	1.12	1.1	50.97	161.29	14.71	12977	5905	673	609	1281
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.12	1.12	1.1	118.29	370.75	23.06	26724	12199	1434	1122	2556
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.11	1.11	1.0	121.73	388.54	22.69	29013	12707	1299	1084	2384
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.11	1.11	0.9	125.84	407.26	21.05	32303	12366	1276	1096	2373
													Totals	**177,724**	**81,036**			**18,020**

1.2D + 1.0Di + 1.0Wi 180° — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.00	1.00	1.2	32.01	75.92	10.27	4621	2279	399	94	493
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.00	1.00	1.2	29.63	75.96	10.75	4016	2073	394	112	506
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.00	1.00	1.2	35.37	94.06	12.28	5945	2893	480	158	638
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.00	1.00	1.2	37.05	100.46	12.83	6040	3131	504	316	820
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.00	1.00	1.2	39.97	117.26	13.15	9704	5014	576	590	1166

SECTION FORCES

1.2D + 1.0Di + 1.0Wi 180° — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.00	1.00	1.1	41.09	123.05	13.49	10792	5415	588	685	1273
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.00	1.00	1.1	42.21	128.62	13.83	11118	5538	598	671	1269
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.00	1.00	1.1	87.82	273.23	28.59	24470	11516	1209	1281	2490
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.00	1.00	1.1	45.55	144.14	14.71	12977	5905	601	609	1210
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.00	1.00	1.1	105.24	329.86	23.06	26724	12199	1276	1122	2398
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.00	1.00	1.0	109.21	348.60	22.69	29013	12707	1165	1084	2250
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.00	1.00	0.9	113.62	367.72	21.05	32303	12366	1152	1096	2249
													Totals	**177,724**	**81,036**			**16,763**

1.2D + 1.0Di + 1.0Wi 225° — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.20	1.20	1.2	38.41	91.11	10.27	4621	2279	479	94	573
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.20	1.20	1.2	35.56	91.15	10.75	4016	2073	473	112	585
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.20	1.20	1.2	42.44	112.87	12.28	5945	2893	577	158	734
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.20	1.20	1.2	44.46	120.55	12.83	6040	3131	605	316	921
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.16	1.16	1.2	46.29	135.81	13.15	9704	5014	667	590	1257
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.15	1.15	1.1	47.14	141.19	13.49	10792	5415	675	685	1360
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.14	1.14	1.1	48.06	146.43	13.83	11118	5538	681	671	1351
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.13	1.13	1.1	99.04	308.13	28.59	24470	11516	1363	1281	2645
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.12	1.12	1.1	50.97	161.29	14.71	12977	5905	673	609	1281
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.12	1.12	1.1	118.29	370.75	23.06	26724	12199	1434	1122	2556
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.11	1.11	1.0	121.73	388.54	22.69	29013	12707	1299	1084	2384
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.11	1.11	0.9	125.84	407.26	21.05	32303	12366	1276	1096	2373
													Totals	**177,724**	**81,036**			**18,020**

1.2D + 1.0Di + 1.0Wi 270° — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.00	1.00	1.2	32.01	75.92	10.27	4621	2279	399	94	493
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.00	1.00	1.2	29.63	75.96	10.75	4016	2073	394	112	506
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.00	1.00	1.2	35.37	94.06	12.28	5945	2893	480	158	638
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.00	1.00	1.2	37.05	100.46	12.83	6040	3131	504	316	820
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.00	1.00	1.2	39.97	117.26	13.15	9704	5014	576	590	1166
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.00	1.00	1.1	41.09	123.05	13.49	10792	5415	588	685	1273
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.00	1.00	1.1	42.21	128.62	13.83	11118	5538	598	671	1269
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.00	1.00	1.1	87.82	273.23	28.59	24470	11516	1209	1281	2490
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.00	1.00	1.1	45.55	144.14	14.71	12977	5905	601	609	1210
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.00	1.00	1.1	105.24	329.86	23.06	26724	12199	1276	1122	2398
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.00	1.00	1.0	109.21	348.60	22.69	29013	12707	1165	1084	2250
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.00	1.00	0.9	113.62	367.72	21.05	32303	12366	1152	1096	2249
													Totals	**177,724**	**81,036**			**16,763**

1.2D + 1.0Di + 1.0Wi 315° — Gust Response Factor (Gh): 0.85 — Ice Importance Factor: 1.00
50 mph Wind with 1" Radial Ice — Wind Importance Factor (Iw): 1.00 — Ice Dead Load Factor: 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	6.19	21.735	10.271	10.27	0.368	2.37	1.20	1.20	1.2	38.41	91.11	10.27	4621	2279	479	94	573
11	175	6.10	18.878	10.754	10.75	0.308	2.56	1.20	1.20	1.2	35.56	91.15	10.75	4016	2073	473	112	585
10	165	6.01	23.088	12.279	12.28	0.281	2.66	1.20	1.20	1.2	42.44	112.87	12.28	5945	2893	577	158	734
9	155	5.90	24.221	12.831	12.83	0.267	2.71	1.20	1.20	1.2	44.46	120.55	12.83	6040	3131	605	316	921
8	144	5.77	26.817	13.152	13.15	0.211	2.93	1.16	1.16	1.2	46.29	135.81	13.15	9704	5014	667	590	1257
7	131	5.63	27.593	13.493	13.49	0.196	3.00	1.15	1.15	1.1	47.14	141.19	13.49	10792	5415	675	685	1360
6	119	5.47	28.388	13.825	13.83	0.185	3.05	1.14	1.14	1.1	48.06	146.43	13.83	11118	5538	681	671	1351
5	100	5.21	59.230	28.592	28.59	0.170	3.11	1.13	1.13	1.1	99.04	308.13	28.59	24470	11516	1363	1281	2645
4	81	4.91	30.837	14.710	14.71	0.159	3.16	1.12	1.12	1.1	50.97	161.29	14.71	12977	5905	673	609	1281
3	62	4.55	82.186	23.059	23.06	0.165	3.13	1.12	1.12	1.1	118.29	370.75	23.06	26724	12199	1434	1122	2556
2	38	3.93	86.518	22.694	22.69	0.153	3.19	1.11	1.11	1.0	121.73	388.54	22.69	29013	12707	1299	1084	2384
1	12	3.69	92.567	21.054	21.05	0.143	3.24	1.11	1.11	0.9	125.84	407.26	21.05	32303	12366	1276	1096	2373
													Totals	**177,724**	**81,036**			**18,020**

1.0D + 1.0W Service Normal — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1952	0	454	58	512
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1619	0	421	67	488
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2543	0	516	91	607
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2424	0	539	156	695
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3908	0	613	285	898
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4481	0	624	334	958

SECTION FORCES

1.0D + 1.0W Service Normal — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4651	0	631	326	957
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	10795	0	1272	621	1892
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5894	0	631	294	925
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	12104	0	1511	552	2063
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	13588	0	1392	628	2020
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	16614	0	1405	712	2117
													Totals	**80,574**	**0**			**14,134**

1.0D + 1.0W Service 45° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1952	0	541	58	599
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1619	0	484	67	551
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2543	0	588	91	679
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2424	0	611	156	767
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3908	0	679	285	964
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4481	0	686	334	1021
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4651	0	691	326	1017
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	10795	0	1382	621	2003
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5894	0	682	294	977
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	12104	0	1659	552	2210
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	13588	0	1519	628	2147
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	16614	0	1528	712	2241
													Totals	**80,574**	**0**			**15,175**

1.0D + 1.0W Service 90° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1952	0	454	58	512
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1619	0	421	67	488
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2543	0	516	91	607
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2424	0	539	156	695
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3908	0	613	285	898
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4481	0	624	334	958
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4651	0	631	326	957
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	10795	0	1272	621	1892
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5894	0	631	294	925
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	12104	0	1511	552	2063
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	13588	0	1392	628	2020
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	16614	0	1405	712	2117
													Totals	**80,574**	**0**			**14,134**

1.0D + 1.0W Service 135° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1952	0	541	58	599
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1619	0	484	67	551
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2543	0	588	91	679
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2424	0	611	156	767
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3908	0	679	285	964
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4481	0	686	334	1021
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4651	0	691	326	1017
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	10795	0	1382	621	2003
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5894	0	682	294	977
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	12104	0	1659	552	2210
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	13588	0	1519	628	2147
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	16614	0	1528	712	2241
													Totals	**80,574**	**0**			**15,175**

1.0D + 1.0W Service 180° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1952	0	454	58	512
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1619	0	421	67	488
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2543	0	516	91	607
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2424	0	539	156	695
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3908	0	613	285	898
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4481	0	624	334	958
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4651	0	631	326	957

SECTION FORCES

1.0D + 1.0W Service 180° Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	10795	0	1272	621	1892
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5894	0	631	294	925
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	12104	0	1511	552	2063
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	13588	0	1392	628	2020
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	16614	0	1405	712	2117
													Totals	**80,574**	**0**			**14,134**

1.0D + 1.0W Service 225° Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1952	0	541	58	599
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1619	0	484	67	551
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2543	0	588	91	679
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2424	0	611	156	767
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3908	0	679	285	964
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4481	0	686	334	1021
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4651	0	691	326	1017
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	10795	0	1382	621	2003
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5894	0	682	294	977
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	12104	0	1659	552	2210
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	13588	0	1519	628	2147
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	16614	0	1528	712	2241
													Totals	**80,574**	**0**			**15,175**

1.0D + 1.0W Service 270° Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.00	1.00	0.0	21.74	59.94	0.00	1952	0	454	58	512
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.00	1.00	0.0	18.88	56.30	0.00	1619	0	421	67	488
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.00	1.00	0.0	23.09	70.20	0.00	2543	0	516	91	607
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.00	1.00	0.0	24.22	74.65	0.00	2424	0	539	156	695
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.00	1.00	0.0	26.82	86.80	0.00	3908	0	613	285	898
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.00	1.00	0.0	27.59	90.60	0.00	4481	0	624	334	958
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.00	1.00	0.0	28.39	94.32	0.00	4651	0	631	326	957
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.00	1.00	0.0	59.23	199.60	0.00	10795	0	1272	621	1892
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.00	1.00	0.0	30.84	105.10	0.00	5894	0	631	294	925
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.00	1.00	0.0	82.19	271.28	0.00	12104	0	1511	552	2063
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.00	1.00	0.0	86.52	289.05	0.00	13588	0	1392	628	2020
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.00	1.00	0.0	92.57	311.27	0.00	16614	0	1405	712	2117
													Totals	**80,574**	**0**			**14,134**

1.0D + 1.0W Service 315° Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Section #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)
12	183	8.91	21.735	0.000	0.00	0.254	2.76	1.19	1.19	0.0	25.88	71.38	0.00	1952	0	541	58	599
11	175	8.79	18.878	0.000	0.00	0.200	2.98	1.15	1.15	0.0	21.70	64.72	0.00	1619	0	484	67	551
10	165	8.65	23.088	0.000	0.00	0.186	3.04	1.14	1.14	0.0	26.31	80.00	0.00	2543	0	588	91	679
9	155	8.50	24.221	0.000	0.00	0.177	3.08	1.13	1.13	0.0	27.43	84.55	0.00	2424	0	611	156	767
8	144	8.31	26.817	0.000	0.00	0.143	3.24	1.11	1.11	0.0	29.70	96.13	0.00	3908	0	679	285	964
7	131	8.10	27.593	0.000	0.00	0.134	3.28	1.10	1.10	0.0	30.36	99.68	0.00	4481	0	686	334	1021
6	119	7.87	28.388	0.000	0.00	0.126	3.32	1.09	1.09	0.0	31.06	103.20	0.00	4651	0	691	326	1017
5	100	7.50	59.230	0.000	0.00	0.116	3.37	1.09	1.09	0.0	64.38	216.95	0.00	10795	0	1382	621	2003
4	81	7.06	30.837	0.000	0.00	0.108	3.41	1.08	1.08	0.0	33.34	113.63	0.00	5894	0	682	294	977
3	62	6.55	82.186	0.000	0.00	0.130	3.30	1.10	1.10	0.0	90.20	297.72	0.00	12104	0	1659	552	2210
2	38	5.66	86.518	0.000	0.00	0.122	3.34	1.09	1.09	0.0	94.42	315.45	0.00	13588	0	1519	628	2147
1	12	5.31	92.567	0.000	0.00	0.117	3.36	1.09	1.09	0.0	100.72	338.67	0.00	16614	0	1528	712	2241
													Totals	**80,574**	**0**			**15,175**

EQUIVALENT LATERAL FORCE METHOD

Spectral Response Acceleration for Short Period (S_S):	0.22
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.00
Site Coefficient F_a:	1.60
Site Coefficient F_v:	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.24
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.04
Upper Limit C_S:	0.04
Lower Limit C_S:	0.03
Period based on Rayleigh Method (sec):	0.67
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.08
Total Unfactored Dead Load:	113.45 k
Seismic Base Shear (E):	6.61 k

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
12	183.21	1,952	551,091	0.033	217	1,663
11	174.63	1,619	434,096	0.026	171	1,380
10	165.26	2,543	642,213	0.038	253	2,167
9	155.08	2,424	571,403	0.034	225	2,066
8	143.75	3,908	848,639	0.050	334	3,331
7	131.25	4,481	881,688	0.052	347	3,819
6	118.75	4,651	821,031	0.049	323	3,963
5	100.00	10,795	1,582,160	0.094	623	9,200
4	81.25	5,894	689,820	0.041	272	5,023
3	62.50	12,104	1,066,332	0.064	420	10,315
2	37.50	13,588	688,416	0.041	271	11,580
1	12.50	16,614	256,124	0.015	101	14,159
Ericsson 4460 BAND 2/25	187.50	327	94,675	0.006	37	279
Ericsson 4480 BAND 71	187.50	243	70,355	0.004	28	207
Commscope VV-65A-R1	187.50	71	20,672	0.001	8	61
RFS APXVAALL24 43-U-NA20	187.50	368	106,661	0.006	42	314
Ericsson AIR 6419 B41	187.50	206	59,498	0.004	23	175
Generic Flat Side Arm	187.50	562	162,859	0.010	64	479
Generic Mount Reinforcement	187.50	600	173,716	0.010	68	511
Platform	187.50	8,000	2,316,211	0.138	912	6,818
Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	172.50	210	55,551	0.003	22	179
Alcatel-Lucent ALU 800MHz External Notch Filter	171.90	26	6,957	0.000	3	22
Alcatel-Lucent 2X50W RRH w/o Filter	171.90	159	41,901	0.002	16	136
RFS APXV9TM14-ALU-I20*	170.90	165	43,287	0.003	17	141
RFS APXVSPP18-C-A20	170.40	171	44,638	0.003	18	146
Catwalk	170.30	6,500	1,695,688	0.101	667	5,539
Alcatel-Lucent 4x40W RRH (91 lb)	168.80	273	70,540	0.004	28	233
Generic Flat Light Sector Frame	167.00	1,200	306,486	0.018	121	1,023
Kathrein Scala 860 10025	160.00	7	1,756	0.000	1	6
Ericsson RRUS 8843 B2, B66A	160.00	216	52,667	0.003	21	184
Ericsson RRUS 4426 B66	160.00	145	35,404	0.002	14	124
Ericsson RRUS 4415 B30	160.00	138	33,649	0.002	13	118
Ericsson RRUS 4449 B5, B12	160.00	213	51,936	0.003	20	182
Ericsson RRUS 4478 B14	160.00	178	43,451	0.003	17	152
Ericsson RRUS 32 B2	160.00	159	38,769	0.002	15	136
Raycap DC9-48-60-24-8C-EV	160.00	32	7,803	0.000	3	27
CCI DMP65R-BU6DA	160.00	238	58,081	0.004	23	203
CCI OPA65RBU6DA	160.00	181	44,036	0.003	17	154
Allgon 7770.00	155.80	105	24,875	0.002	10	89
CCI HPA-65R-BUU-H6	155.20	153	36,096	0.002	14	130
Powerwave Allgon LGP21401	155.00	85	19,931	0.001	8	72
Kaelus KA-6030	146.00	35	7,773	0.000	3	30

Samsung B2/B66A RRH ORAN (RF 4439d-25A)	146.00	224	49,484	0.003	19	191
Samsung B5/B13 RRH ORAN (RF4440d-13A)	146.00	211	46,569	0.003	18	180
Raycap RVZDC-6627-PF-48	146.00	32	7,066	0.000	3	27
Samsung MT6407-77A	146.00	245	54,055	0.003	21	209
JMA Wireless MX06FRO660-03	146.00	360	79,492	0.005	31	307
Site Pro 1 VFA12-HD	146.00	2,070	457,079	0.027	180	1,764
Rest Platform	137.50	500	103,461	0.006	41	426
Commscope RDIDC-9181-PF-48	137.00	22	4,514	0.000	2	19
Fujitsu TA08025-B605	137.00	225	46,374	0.003	18	192
Fujitsu TA08025-B604	137.00	192	39,511	0.002	16	163
JMA Wireless MX08FRO665-21	137.00	194	39,882	0.002	16	165
Generic Round Sector Frame	137.00	900	185,497	0.011	73	767
Platform	100.00	5,500	806,097	0.048	317	4,687
Rest Platform	87.50	500	63,414	0.004	25	426
Generic Round Side Arm	82.00	188	22,166	0.001	9	160
Andrew DB616E-BC	80.00	51	5,870	0.000	2	43
Rest Platform	50.00	500	34,592	0.002	14	426
Totals		**113,454**	**16,804,054**	**1.000**	**6,614**	**96,687**

1.2D + 1.0Ev + 1.0Eh

Section/Appurtenance	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
12	183.21	1,952	551,091	0.033	217	2,435
11	174.63	1,619	434,096	0.026	171	2,021
10	165.26	2,543	642,213	0.038	253	3,173
9	155.08	2,424	571,403	0.034	225	3,025
8	143.75	3,908	848,639	0.050	334	4,877
7	131.25	4,481	881,688	0.052	347	5,591
6	118.75	4,651	821,031	0.049	323	5,803
5	100.00	10,795	1,582,160	0.094	623	13,470
4	81.25	5,894	689,820	0.041	272	7,354
3	62.50	12,104	1,066,332	0.064	420	15,103
2	37.50	13,588	688,416	0.041	271	16,955
1	12.50	16,614	256,124	0.015	101	20,731
Ericsson 4460 BAND 2/25	187.50	327	94,675	0.006	37	408
Ericsson 4480 BAND 71	187.50	243	70,355	0.004	28	303
Commscope VV-65A-R1	187.50	71	20,672	0.001	8	89
RFS APXVAALL24 43-U-NA20	187.50	368	106,661	0.006	42	460
Ericsson AIR 6419 B41	187.50	206	59,498	0.004	23	256
Generic Flat Side Arm	187.50	562	162,859	0.010	64	702
Generic Mount Reinforcement	187.50	600	173,716	0.010	68	749
Platform	187.50	8,000	2,316,211	0.138	912	9,982
Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	172.50	210	55,551	0.003	22	262
Alcatel-Lucent ALU 800MHz External Notch Filter	171.90	26	6,957	0.000	3	33
Alcatel-Lucent 2X50W RRH w/o Filter	171.90	159	41,901	0.002	16	198
RFS APXV9TM14-ALU-I20*	170.90	165	43,287	0.003	17	206
RFS APXVSPP18-C-A20	170.40	171	44,638	0.003	18	213
Catwalk	170.30	6,500	1,695,688	0.101	667	8,111
Alcatel-Lucent 4x40W RRH (91 lb)	168.80	273	70,540	0.004	28	341
Generic Flat Light Sector Frame	167.00	1,200	306,486	0.018	121	1,497
Kathrein Scala 860 10025	160.00	7	1,756	0.000	1	9
Ericsson RRUS 8843 B2, B66A	160.00	216	52,667	0.003	21	270
Ericsson RRUS 4426 B66	160.00	145	35,404	0.002	14	181
Ericsson RRUS 4415 B30	160.00	138	33,649	0.002	13	172
Ericsson RRUS 4449 B5, B12	160.00	213	51,936	0.003	20	266
Ericsson RRUS 4478 B14	160.00	178	43,451	0.003	17	222
Ericsson RRUS 32 B2	160.00	159	38,769	0.002	15	198
Raycap DC9-48-60-24-8C-EV	160.00	32	7,803	0.000	3	40
CCI DMP65R-BU6DA	160.00	238	58,081	0.004	23	297
CCI OPA65RBU6DA	160.00	181	44,036	0.003	17	225
Allgon 7770.00	155.80	105	24,875	0.002	10	131
CCI HPA-65R-BUU-H6	155.20	153	36,096	0.002	14	191
Powerwave Allgon LGP21401	155.00	85	19,931	0.001	8	106
Kaelus KA-6030	146.00	35	7,773	0.000	3	44
Samsung B2/B66A RRH ORAN (RF 4439d-25A)	146.00	224	49,484	0.003	19	280
Samsung B5/B13 RRH ORAN (RF4440d-13A)	146.00	211	46,569	0.003	18	263
Raycap RVZDC-6627-PF-48	146.00	32	7,066	0.000	3	40
Samsung MT6407-77A	146.00	245	54,055	0.003	21	305
JMA Wireless MX06FRO660-03	146.00	360	79,492	0.005	31	449
Site Pro 1 VFA12-HD	146.00	2,070	457,079	0.027	180	2,583
Rest Platform	137.50	500	103,461	0.006	41	624
Commscope RDIDC-9181-PF-48	137.00	22	4,514	0.000	2	27
Fujitsu TA08025-B605	137.00	225	46,374	0.003	18	281
Fujitsu TA08025-B604	137.00	192	39,511	0.002	16	239
JMA Wireless MX08FRO665-21	137.00	194	39,882	0.002	16	241
Generic Round Sector Frame	137.00	900	185,497	0.011	73	1,123
Platform	100.00	5,500	806,097	0.048	317	6,863
Rest Platform	87.50	500	63,414	0.004	25	624
Generic Round Side Arm	82.00	188	22,166	0.001	9	234
Andrew DB616E-BC	80.00	51	5,870	0.000	2	64
Rest Platform	50.00	500	34,592	0.002	14	624

Totals	**113,454**	**16,804,054**	**1.000**	**6,614**	**141,566**

FORCE/STRESS SUMMARY

Section 1 – 0.0' to 25.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 8X8X0.875	-181.31	1.2D + 1.0W 45°	25.098	33	33	33	63.30	36.00	416.27	0.00	0.00	0	0	43	Member Z
H DAL - 3X2.5X0.3125	-9.19	0.9D + 1.0W N	14.66	100	100	17	171.66	36.00	31.47	0.00	0.00	0	0	29	Member X
D DAS - 3.5X3X0.25	-19.56	1.2D + 1.0W N	29.843	33	66	8	145.04	36.00	42.58	0.00	0.00	0	0	45	Member Y

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 8X8X0.875	127.21	0.9D + 1.0W 45°	36.0	58	428.65	0.00	0.00		0	0	29	Member
H DAL - 3X2.5X0.3125	9.85	1.2D + 1.0W N	36.0	58	104.98	0.00	0.00	0.00	0	0	9	Member
D DAS - 3.5X3X0.25	17.57	1.2D + 1.0W N	36.0	58	101.41	0.00	0.00	0.00	0	0	17	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type
Bot Tension	150.25	0.9D + 1.0W 135°	565.10	7	4	2.25" A36
Bot Compression	207.48	1.2D + 1.0W 135°	467.67	49	0	

Section 2 – 25.0' to 50.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 8X8X0.75	-152.53	1.2D + 1.0W 45°	25.098	33	33	33	62.90	36.00	360.60	0.00	0.00	0	0	42	Member Z
H DAL - 3X2.5X0.25	-8.79	1.2D + 1.0W N	13.097	100	100	17	155.33	36.00	31.20	0.00	0.00	0	0	28	Member X
D DAS - 3X2.5X0.25	-20.87	1.2D + 1.0W N	29.023	33	65	8	156.72	36.00	30.65	0.00	0.00	0	0	68	Member Y

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 8X8X0.75	104.96	0.9D + 1.0W 45°	36.0	58	370.66	0.00	0.00		0	0	28	Member
H DAL - 3X2.5X0.25	9.29	1.2D + 1.0W N	36.0	58	85.21	0.00	0.00	0.00	0	0	10	Member
D DAS - 3X2.5X0.25	18.78	0.9D + 1.0W N	36.0	58	85.21	0.00	0.00	0.00	0	0	22	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 3 – 50.0' to 75.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 8X8X0.75	-122.82	1.2D + 1.0W 45°	25.098	33	33	33	62.90	36.00	360.60	0.00	0.00	0	0	34	Member Z
H DAE - 2.5X2.5X0.25	-7.94	1.2D + 1.0W N	11.534	100	100	17	165.75	36.00	24.80	0.00	0.00	0	0	32	Member X
D DAS - 3X2.5X0.25	-20.77	1.2D + 1.0W N	28.266	33	66	8	155.01	36.00	31.33	0.00	0.00	0	0	66	Member Y

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 8X8X0.75	82.32	0.9D + 1.0W 45°	36.0	58	370.66	0.00	0.00		0	0	22	Member
H DAE - 2.5X2.5X0.25	8.46	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	10	Member
D DAS - 3X2.5X0.25	18.96	0.9D + 1.0W N	36.0	58	85.21	0.00	0.00	0.00	0	0	22	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 4 – 75.0' to 87.50'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.875	-107.84	1.2D + 1.0W 45°	12.549	50	50	50	64.35	36.00	304.67	0.00	0.00	0	0	35	Member Z
H DAE - 2.5X2.5X0.25	-7.09	1.2D + 1.0W N	10.752	100	100	20	156.45	36.00	27.83	0.00	0.00	0	0	25	Member X
D DAE - 2.5X2.5X0.25	-12.06	1.2D + 1.0W N	17.026	50	100	12	167.07	36.00	24.41	0.00	0.00	0	0	49	Member Y

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls

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L SAE - 6X6X0.875	72.80	0.9D + 1.0W 135°	36.0	58	315.25	0.00	0.00		0	0	23	Member
H DAE - 2.5X2.5X0.25	7.58	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	9	Member
D DAE - 2.5X2.5X0.25	10.85	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	14	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

FORCE/STRESS SUMMARY

Section 5 – 87.5' to 112.50'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.75	-93.58	1.2D + 1.0W 45°	12.549	50	50	50	64.35	36.00	264.27	0.00	0.00	0	0	35	Member Z
H DAE - 2.5X2.5X0.25	-6.74	1.2D + 1.0W N	9.971	100	100	20	147.16	36.00	31.46	0.00	0.00	0	0	21	Member X
D DAE - 2.5X2.5X0.25	-11.76	1.2D + 1.0W N	16.507	50	100	12	162.80	36.00	25.70	0.00	0.00	0	0	45	Member Y

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.75	61.17	0.9D + 1.0W 45°	36.0	58	273.46	0.00	0.00		0	0	22	Member
H DAE - 2.5X2.5X0.25	7.01	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	9	Member
D DAE - 2.5X2.5X0.25	10.81	0.9D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	14	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 6 – 112.5' to 125.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.5625	-65.16	1.2D + 1.0W 135°	12.549	50	50	50	63.81	36.00	201.85	0.00	0.00	0	0	32	Member Z
H DAE - 2.5X2.5X0.25	-5.78	1.2D + 1.0W N	8.408	100	100	25	128.58	36.00	41.21	0.00	0.00	0	0	14	Member X
D DAL - 2.5X2X0.25	-11.21	1.2D + 1.0W N	15.534	50	100	12	188.07	36.00	17.24	0.00	0.00	0	0	65	Member Y

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.5625	40.06	0.9D + 1.0W 45°	36.0	58	208.33	0.00	0.00		0	0	19	Member
H DAE - 2.5X2.5X0.25	6.09	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	7	Member
D DAL - 2.5X2X0.25	10.44	0.9D + 1.0W N	36.0	58	69.01	0.00	0.00	0.00	0	0	15	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 7 – 125.0' to 137.50'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.5625	-50.93	1.2D + 1.0W 135°	12.549	50	50	50	63.81	36.00	201.85	0.00	0.00	0	0	25	Member Z
H DAE - 2.5X2.5X0.25	-5.57	1.2D + 1.0W N	7.626	100	120	25	119.01	36.00	47.52	0.00	0.00	0	0	11	Member X
D DAL - 2.5X2X0.25	-11.27	1.2D + 1.0W N	15.085	50	100	12	183.42	36.00	18.12	0.00	0.00	0	0	62	Member Y

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.5625	29.35	0.9D + 1.0W 135°	36.0	58	208.33	0.00	0.00		0	0	14	Member
H DAE - 2.5X2.5X0.25	5.71	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	7	Member
D DAL - 2.5X2X0.25	10.46	1.2D + 1.0W N	36.0	58	69.01	0.00	0.00	0.00	0	0	15	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 8 – 137.5' to 150.00'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.4375	-35.70	1.2D + 1.0W 45°	12.549	50	50	50	63.27	36.00	159.23	0.00	0.00	0	0	22	Member Z
H DAE - 2.5X2.5X0.25	-4.40	1.2D + 1.0W 180°	6.845	100	107	25	106.81	36.00	54.94	0.00	0.00	0	0	8	Member X
D DAL - 2.5X2X0.25	-10.36	1.2D + 1.0W N	14.664	50	100	12	179.07	36.00	19.01	0.00	0.00	0	0	54	Member Y

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 6X6X0.4375	18.25	0.9D + 1.0W 135°	36.0	58	163.94	0.00	0.00		0	0	11	Member
H DAE - 2.5X2.5X0.25	5.38	1.2D + 1.0W N	36.0	58	77.11	0.00	0.00	0.00	0	0	6	Member

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D DAL - 2.5X2X0.25	9.68	1.2D + 1.0W N	36.0	58	69.01	0.00	0.00	0.00	0	0	14	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

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Section 9 – 150.0' to 160.17'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 5X5X0.4375	-27.95	1.2D + 1.0W 135°	10.206	50	50	50	62.11	36.00	132.23	0.00	0.00	0	0	21	Member Z
H SAU - 3X2.5X0.25	-0.98	0.9D + 1.0W 90°	12.418	50	100	50	167.91	36.00	13.30	0.00	0.00	0	0	7	Member Y
D SAE - 3.5x3.5x0.25	-6.04	1.2D + 1.0W 180°	16.558	50	50	50	138.63	36.00	25.17	0.00	0.00	0	0	24	Member Z

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 5X5X0.4375	13.73	0.9D + 1.0W 45°	36.0	58	135.43	0.00	0.00		0	0	10	Member
H SAU - 3X2.5X0.25	2.14	1.2D + 1.0W N	36.0	58	42.44	0.00	0.00	0.00	0	0	5	Member
D SAE - 3.5x3.5x0.25	4.49	0.9D + 1.0W N	36.0	58	54.76	0.00	0.00	0.00	0	0	8	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 10 – 160.2' to 170.34'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 5X5X0.4375	-18.57	1.2D + 1.0W 135°	10.206	50	50	50	62.11	36.00	132.23	0.00	0.00	0	0	14	Member Z
H DAL - 3X2.5X0.25	-0.53	0.9D + 1.0W 90°	11.147	50	100	50	172.39	36.00	25.33	0.00	0.00	0	0	2	Member Y
D SAE - 3.5x3.5x0.25	-4.73	1.2D + 1.0W N	15.576	50	50	50	132.10	36.00	27.72	0.00	0.00	0	0	17	Member Z

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 5X5X0.4375	6.81	0.9D + 1.0W 45°	36.0	58	135.43	0.00	0.00		0	0	5	Member
H DAL - 3X2.5X0.25	1.28	1.2D + 1.0W N	36.0	58	85.21	0.00	0.00	0.00	0	0	1	Member
D SAE - 3.5x3.5x0.25	3.32	0.9D + 1.0W N	36.0	58	54.76	0.00	0.00	0.00	0	0	6	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 11 – 170.3' to 178.92'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 5X5X0.3125	-9.43	1.2D + 1.0W 45°	8.617	50	50	50	52.01	35.89	99.52	0.00	0.00	0	0	9	Member Z
H SAU - 3X2.5X0.25	-0.01	1.2D + 1.0W N	10.074	50	100	50	144.93	36.00	17.85	0.00	0.00	0	0	0	Member Y
D SAE - 3X3X0.25	-2.86	1.2D + 1.0W N	13.658	50	50	50	134.08	36.00	22.93	0.00	0.00	0	0	12	Member Z

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 5X5X0.3125	3.14	0.9D + 1.0W 45°	36.0	58	98.17	0.00	0.00		0	0	3	Member
H SAU - 3X2.5X0.25	0.90	1.2D + 1.0W 90°	36.0	58	42.44	0.00	0.00	0.00	0	0	2	Member
D SAE - 3X3X0.25	1.89	1.2D + 1.0W N	36.0	58	46.66	0.00	0.00	0.00	0	0	4	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 12 – 178.9' to 187.50'

Member Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L SAE - 5X5X0.3125	-5.06	1.2D + 1.0W 45°	8.617	50	50	50	52.01	35.89	99.52	0.00	0.00	0	0	5	Member Z
H CHN - C8 x 11.5	-0.21	1.2D + 1.0W N	9.001	100	100	100	160.28	36.00	37.66	0.00	0.00	0	0	0	Member Y
D SAE - 3X3X0.25	-2.66	1.2D + 1.0W N	12.842	50	50	50	127.78	36.00	25.24	0.00	0.00	0	0	10	Member Z

Member Tension	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c Pn$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
H CHN - C8 x 11.5	0.14	1.2D + 1.0W N	36.0	58	109.51	0.00	0.00	0.00	0	0	0	Member
D SAE - 3X3X0.25	1.47	1.2D + 1.0W N	36.0	58	46.66	0.00	0.00	0.00	0	0	3	Member

FORCE/STRESS SUMMARY

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	50.00	0.0112	0.0019	0.0213	0.0213
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	75.00	0.0218	0.0022	0.0252	0.0252
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	87.50	0.0273	0.0023	0.0265	0.0265
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	100.00	0.0335	0.0027	0.0302	0.0302
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	137.50	0.0567	0.0035	0.0405	0.0405
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	150.00	0.0658	0.0036	0.0417	0.0417
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	160.17	0.0732	0.0037	0.0421	0.0421
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	170.33	0.0806	0.0038	0.0429	0.0429
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	187.50	0.0934	0.0038	0.0437	0.0437
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	50.00	0.0107	-0.0013	0.0203	0.0203
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	75.00	0.0208	0.0015	0.0241	0.0241
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	87.50	0.0261	0.0016	0.0253	0.0254
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	100.00	0.032	0.0018	0.0289	0.0289
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	137.50	0.0542	-0.0025	0.0387	0.0388
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	150.00	0.0629	0.0025	0.0397	0.0398
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	160.17	0.07	0.0026	0.0404	0.0404
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	170.33	0.0771	0.0027	0.0413	0.0414
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	187.50	0.0895	0.0027	0.0420	0.0421
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	50.00	0.0113	-0.0019	0.0215	0.0215
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	75.00	0.0221	-0.0023	0.0256	0.0257
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	87.50	0.0277	0.0024	0.0269	0.027
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	100.00	0.0341	0.0027	0.0308	0.0309
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	137.50	0.058	-0.0037	0.0418	0.0418
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	150.00	0.0674	0.0038	0.0436	0.0436
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	160.17	0.0751	0.0039	0.0445	0.0445
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	170.33	0.0831	0.0040	0.0455	0.0457
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	187.50	0.0967	0.0041	0.0466	0.0466
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	50.00	0.0107	-0.0013	0.0204	0.0204
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	75.00	0.0208	0.0015	0.0244	0.0245
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	87.50	0.0263	0.0016	0.0260	0.026
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	100.00	0.0323	0.0019	0.0297	0.0297
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	137.50	0.0554	0.0026	0.0406	0.0407
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	150.00	0.0645	0.0027	0.0424	0.0424
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	160.17	0.0722	0.0028	0.0440	0.0441
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	170.33	0.08	0.0029	0.0450	0.0451
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	187.50	0.0935	0.0030	0.0461	0.0462
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	50.00	0.0112	0.0019	0.0214	0.0214
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	75.00	0.0219	0.0023	0.0257	0.0257
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	87.50	0.0276	0.0024	0.0274	0.0274
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	100.00	0.034	0.0028	0.0313	0.0313
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	137.50	0.0583	0.0038	0.0430	0.043
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	150.00	0.0681	0.0040	0.0455	0.0455
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	160.17	0.0764	0.0041	0.0471	0.0471
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	170.33	0.0846	0.0042	0.0481	0.0481
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	187.50	0.0991	0.0043	0.0494	0.0494
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	50.00	0.0107	0.0013	0.0204	0.0204
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	75.00	0.0208	0.0015	0.0244	0.0245
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	87.50	0.0262	0.0016	0.0260	0.026
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	100.00	0.0323	0.0019	0.0297	0.0297
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	137.50	0.0554	0.0026	0.0406	0.0407
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	150.00	0.0645	0.0027	0.0424	0.0425
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	160.17	0.0722	0.0028	0.0440	0.0441
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	170.33	0.08	0.0029	0.0451	0.0452
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	187.50	0.0936	0.0030	0.0462	0.0462
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	50.00	0.0113	0.0019	0.0215	0.0215
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	75.00	0.0221	0.0023	0.0256	0.0257
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	87.50	0.0277	0.0024	0.0269	0.027
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	100.00	0.0341	0.0027	0.0308	0.0309
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	137.50	0.0581	0.0037	0.0419	0.0419

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	150.00	0.0674	0.0038	0.0437	0.0437
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	160.17	0.0751	0.0039	0.0446	0.0446
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	170.33	0.0832	0.0040	0.0456	0.0458
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	187.50	0.0969	-0.0041	0.0467	0.0467
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	50.00	0.0107	0.0013	0.0203	0.0204
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	75.00	0.0208	0.0015	0.0241	0.0241
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	87.50	0.0261	0.0016	0.0254	0.0254
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	100.00	0.032	0.0018	0.0289	0.0289
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	137.50	0.0542	0.0025	0.0387	0.0388
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	150.00	0.0629	0.0025	0.0398	0.0399
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	160.17	0.0701	0.0026	0.0405	0.0405
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	170.33	0.0772	0.0027	0.0414	0.0415
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	187.50	0.0896	0.0027	0.0421	0.0421
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	50.00	0.0039	0.0008	0.0089	0.0089
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	75.00	0.0086	0.0010	0.0117	0.0117
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	87.50	0.0113	0.0012	0.0133	0.0133
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	100.00	0.0144	0.0013	0.0155	0.0155
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	137.50	0.0265	0.0019	0.0220	0.022
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	150.00	0.0316	0.0020	0.0236	0.0236
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	160.17	0.0359	0.0022	0.0250	0.025
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	170.33	0.0403	0.0023	0.0259	0.0259
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	187.50	0.0481	0.0023	0.0269	0.0269
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	50.00	0.0039	0.0005	0.0089	0.0089
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	75.00	0.0086	0.0007	0.0118	0.0118
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	87.50	0.0113	0.0008	0.0133	0.0133
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	100.00	0.0144	0.0010	0.0155	0.0155
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	137.50	0.0265	0.0014	0.0219	0.022
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	150.00	0.0315	0.0014	0.0233	0.0234
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	160.17	0.0358	0.0015	0.0249	0.025
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	170.33	0.0403	0.0016	0.0259	0.0259
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	187.50	0.0481	0.0016	0.0267	0.0268
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	50.00	0.0039	0.0008	0.0089	0.0089
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	75.00	0.0086	0.0010	0.0117	0.0117
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	87.50	0.0113	0.0012	0.0133	0.0133
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	100.00	0.0144	0.0013	0.0155	0.0155
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	137.50	0.0265	0.0019	0.0220	0.022
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	150.00	0.0316	0.0020	0.0236	0.0236
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	160.17	0.0359	0.0022	0.0250	0.025
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	170.33	0.0403	0.0023	0.0259	0.0259
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	187.50	0.0481	0.0023	0.0269	0.0269
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	50.00	0.0039	0.0005	0.0089	0.0089
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	75.00	0.0086	0.0007	0.0118	0.0118
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	87.50	0.0113	0.0008	0.0133	0.0133
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	100.00	0.0144	0.0010	0.0155	0.0155
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	137.50	0.0265	0.0014	0.0219	0.022
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	150.00	0.0315	0.0014	0.0233	0.0234
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	160.17	0.0358	0.0015	0.0249	0.025
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	170.33	0.0403	0.0016	0.0259	0.0259
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	187.50	0.0481	0.0016	0.0267	0.0268
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	50.00	0.0039	0.0008	0.0089	0.0089
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	75.00	0.0086	0.0010	0.0117	0.0117
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	87.50	0.0113	0.0012	0.0133	0.0133
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	100.00	0.0144	0.0013	0.0155	0.0155
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	137.50	0.0265	0.0019	0.0220	0.022
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	150.00	0.0316	0.0020	0.0236	0.0236
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	160.17	0.0359	0.0022	0.0250	0.025
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	170.33	0.0403	0.0023	0.0259	0.0259
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	187.50	0.0481	0.0023	0.0269	0.0269
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	50.00	0.0039	0.0005	0.0089	0.0089

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	75.00	0.0086	0.0007	0.0118	0.0118
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	87.50	0.0113	0.0008	0.0133	0.0133
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	100.00	0.0144	0.0010	0.0155	0.0155
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	137.50	0.0265	0.0014	0.0219	0.022
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	150.00	0.0315	0.0014	0.0233	0.0234
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	160.17	0.0358	0.0015	0.0249	0.025
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	170.33	0.0403	0.0016	0.0259	0.0259
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	187.50	0.0481	0.0016	0.0267	0.0268
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	50.00	0.0039	0.0008	0.0089	0.0089
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	75.00	0.0086	0.0010	0.0117	0.0117
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	87.50	0.0113	0.0012	0.0133	0.0133
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	100.00	0.0144	0.0013	0.0155	0.0155
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	137.50	0.0265	0.0019	0.0220	0.022
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	150.00	0.0316	0.0020	0.0236	0.0236
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	160.17	0.0359	0.0022	0.0250	0.025
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	170.33	0.0403	0.0023	0.0259	0.0259
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	187.50	0.0481	0.0023	0.0269	0.0269
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	50.00	0.0039	0.0005	0.0089	0.0089
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	75.00	0.0086	0.0007	0.0118	0.0118
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	87.50	0.0113	0.0008	0.0133	0.0133
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	100.00	0.0144	0.0010	0.0155	0.0155
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	137.50	0.0265	0.0014	0.0219	0.022
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	150.00	0.0315	0.0014	0.0233	0.0234
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	160.17	0.0358	0.0015	0.0249	0.025
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	170.33	0.0403	0.0016	0.0259	0.0259
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	187.50	0.0481	0.0016	0.0267	0.0268
1.2D + 1.0Ev + 1.0Eh 315° Seismic	50.00	0.004	0.0008	0.0091	0.0091
1.2D + 1.0Ev + 1.0Eh 315° Seismic	75.00	0.0086	0.0010	0.0119	0.0119
1.2D + 1.0Ev + 1.0Eh 315° Seismic	87.50	0.0114	0.0012	0.0134	0.0134
1.2D + 1.0Ev + 1.0Eh 315° Seismic	100.00	0.0145	0.0013	0.0157	0.0157
1.2D + 1.0Ev + 1.0Eh 315° Seismic	137.50	0.0266	0.0019	0.0222	0.0222
1.2D + 1.0Ev + 1.0Eh 315° Seismic	150.00	0.0316	0.0020	0.0236	0.0236
1.2D + 1.0Ev + 1.0Eh 315° Seismic	160.17	0.036	0.0022	0.0252	0.0252
1.2D + 1.0Ev + 1.0Eh 315° Seismic	170.33	0.0404	0.0023	0.0261	0.0261
1.2D + 1.0Ev + 1.0Eh 315° Seismic	187.50	0.0482	0.0023	0.0272	0.0272
1.2D + 1.0Ev + 1.0Eh 270° Seismic	50.00	0.004	0.0005	0.0090	0.009
1.2D + 1.0Ev + 1.0Eh 270° Seismic	75.00	0.0086	0.0007	0.0118	0.0119
1.2D + 1.0Ev + 1.0Eh 270° Seismic	87.50	0.0113	0.0008	0.0134	0.0134
1.2D + 1.0Ev + 1.0Eh 270° Seismic	100.00	0.0144	0.0010	0.0156	0.0157
1.2D + 1.0Ev + 1.0Eh 270° Seismic	137.50	0.0266	0.0014	0.0220	0.0221
1.2D + 1.0Ev + 1.0Eh 270° Seismic	150.00	0.0316	0.0014	0.0234	0.0235
1.2D + 1.0Ev + 1.0Eh 270° Seismic	160.17	0.0359	0.0015	0.0251	0.0251
1.2D + 1.0Ev + 1.0Eh 270° Seismic	170.33	0.0404	0.0016	0.0260	0.0261
1.2D + 1.0Ev + 1.0Eh 270° Seismic	187.50	0.0481	0.0016	0.0270	0.0271
1.2D + 1.0Ev + 1.0Eh 225° Seismic	50.00	0.004	0.0008	0.0091	0.0091
1.2D + 1.0Ev + 1.0Eh 225° Seismic	75.00	0.0086	0.0010	0.0119	0.0119
1.2D + 1.0Ev + 1.0Eh 225° Seismic	87.50	0.0114	0.0012	0.0134	0.0134
1.2D + 1.0Ev + 1.0Eh 225° Seismic	100.00	0.0145	0.0013	0.0157	0.0157
1.2D + 1.0Ev + 1.0Eh 225° Seismic	137.50	0.0266	0.0019	0.0222	0.0222
1.2D + 1.0Ev + 1.0Eh 225° Seismic	150.00	0.0316	0.0020	0.0236	0.0236
1.2D + 1.0Ev + 1.0Eh 225° Seismic	160.17	0.036	0.0022	0.0252	0.0252
1.2D + 1.0Ev + 1.0Eh 225° Seismic	170.33	0.0404	0.0023	0.0261	0.0261
1.2D + 1.0Ev + 1.0Eh 225° Seismic	187.50	0.0482	0.0023	0.0272	0.0272
1.2D + 1.0Ev + 1.0Eh 180° Seismic	50.00	0.004	0.0005	0.0090	0.009
1.2D + 1.0Ev + 1.0Eh 180° Seismic	75.00	0.0086	0.0007	0.0118	0.0119
1.2D + 1.0Ev + 1.0Eh 180° Seismic	87.50	0.0113	0.0008	0.0134	0.0134
1.2D + 1.0Ev + 1.0Eh 180° Seismic	100.00	0.0144	0.0010	0.0156	0.0157
1.2D + 1.0Ev + 1.0Eh 180° Seismic	137.50	0.0266	0.0014	0.0220	0.0221
1.2D + 1.0Ev + 1.0Eh 180° Seismic	150.00	0.0316	0.0014	0.0234	0.0235

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Ev + 1.0Eh 180° Seismic	160.17	0.0359	0.0015	0.0251	0.0251
1.2D + 1.0Ev + 1.0Eh 180° Seismic	170.33	0.0404	0.0016	0.0260	0.0261
1.2D + 1.0Ev + 1.0Eh 180° Seismic	187.50	0.0481	0.0016	0.0270	0.0271
1.2D + 1.0Ev + 1.0Eh 135° Seismic	50.00	0.004	0.0008	0.0091	0.0091
1.2D + 1.0Ev + 1.0Eh 135° Seismic	75.00	0.0086	0.0010	0.0119	0.0119
1.2D + 1.0Ev + 1.0Eh 135° Seismic	87.50	0.0114	0.0012	0.0134	0.0134
1.2D + 1.0Ev + 1.0Eh 135° Seismic	100.00	0.0145	0.0013	0.0157	0.0157
1.2D + 1.0Ev + 1.0Eh 135° Seismic	137.50	0.0266	0.0019	0.0222	0.0222
1.2D + 1.0Ev + 1.0Eh 135° Seismic	150.00	0.0316	0.0020	0.0236	0.0236
1.2D + 1.0Ev + 1.0Eh 135° Seismic	160.17	0.036	0.0022	0.0252	0.0252
1.2D + 1.0Ev + 1.0Eh 135° Seismic	170.33	0.0404	0.0023	0.0261	0.0261
1.2D + 1.0Ev + 1.0Eh 135° Seismic	187.50	0.0482	0.0023	0.0272	0.0272
1.2D + 1.0Ev + 1.0Eh 90° Seismic	50.00	0.004	0.0005	0.0090	0.009
1.2D + 1.0Ev + 1.0Eh 90° Seismic	75.00	0.0086	0.0007	0.0118	0.0119
1.2D + 1.0Ev + 1.0Eh 90° Seismic	87.50	0.0113	0.0008	0.0134	0.0134
1.2D + 1.0Ev + 1.0Eh 90° Seismic	100.00	0.0144	0.0010	0.0156	0.0157
1.2D + 1.0Ev + 1.0Eh 90° Seismic	137.50	0.0266	0.0014	0.0220	0.0221
1.2D + 1.0Ev + 1.0Eh 90° Seismic	150.00	0.0316	0.0014	0.0234	0.0235
1.2D + 1.0Ev + 1.0Eh 90° Seismic	160.17	0.0359	0.0015	0.0251	0.0251
1.2D + 1.0Ev + 1.0Eh 90° Seismic	170.33	0.0404	0.0016	0.0260	0.0261
1.2D + 1.0Ev + 1.0Eh 90° Seismic	187.50	0.0481	0.0016	0.0270	0.0271
1.2D + 1.0Ev + 1.0Eh 45° Seismic	50.00	0.004	0.0008	0.0091	0.0091
1.2D + 1.0Ev + 1.0Eh 45° Seismic	75.00	0.0086	0.0010	0.0119	0.0119
1.2D + 1.0Ev + 1.0Eh 45° Seismic	87.50	0.0114	0.0012	0.0134	0.0134
1.2D + 1.0Ev + 1.0Eh 45° Seismic	100.00	0.0145	0.0013	0.0157	0.0157
1.2D + 1.0Ev + 1.0Eh 45° Seismic	137.50	0.0266	0.0019	0.0222	0.0222
1.2D + 1.0Ev + 1.0Eh 45° Seismic	150.00	0.0316	0.0020	0.0236	0.0236
1.2D + 1.0Ev + 1.0Eh 45° Seismic	160.17	0.036	0.0022	0.0252	0.0252
1.2D + 1.0Ev + 1.0Eh 45° Seismic	170.33	0.0404	0.0023	0.0261	0.0261
1.2D + 1.0Ev + 1.0Eh 45° Seismic	187.50	0.0482	0.0023	0.0272	0.0272
1.2D + 1.0Ev + 1.0Eh Normal Seismic	50.00	0.004	0.0005	0.0090	0.009
1.2D + 1.0Ev + 1.0Eh Normal Seismic	75.00	0.0086	0.0007	0.0118	0.0119
1.2D + 1.0Ev + 1.0Eh Normal Seismic	87.50	0.0113	0.0008	0.0134	0.0134
1.2D + 1.0Ev + 1.0Eh Normal Seismic	100.00	0.0144	0.0010	0.0156	0.0157
1.2D + 1.0Ev + 1.0Eh Normal Seismic	137.50	0.0266	0.0014	0.0220	0.0221
1.2D + 1.0Ev + 1.0Eh Normal Seismic	150.00	0.0316	0.0014	0.0234	0.0235
1.2D + 1.0Ev + 1.0Eh Normal Seismic	160.17	0.0359	0.0015	0.0251	0.0251
1.2D + 1.0Ev + 1.0Eh Normal Seismic	170.33	0.0404	0.0016	0.0260	0.0261
1.2D + 1.0Ev + 1.0Eh Normal Seismic	187.50	0.0481	0.0016	0.0270	0.0271
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	50.00	0.016	0.0021	0.0252	0.0252
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	75.00	0.0276	0.0025	0.0290	0.029
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	87.50	0.0335	0.0025	0.0290	0.029
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	100.00	0.04	0.0029	0.0330	0.033
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	137.50	0.0639	0.0036	0.0418	0.0418
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	150.00	0.0727	0.0036	0.0416	0.0416
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	160.17	0.0796	0.0036	0.0414	0.0414
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	170.33	0.0869	0.0036	0.0419	0.0419
1.2D + 1.0Di + 1.0Wi 315° 50 mph Wind with 1" Radial Ice	187.50	0.099	0.0036	0.0425	0.0425
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	50.00	0.0146	0.0014	0.0237	0.0237
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	75.00	0.0255	0.0017	0.0273	0.0274
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	87.50	0.0311	-0.0018	0.0276	0.0276
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	100.00	0.0374	0.0020	0.0312	0.0313
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	137.50	0.0603	0.0026	0.0398	0.0399
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	150.00	0.0688	0.0026	0.0399	0.04
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	160.17	0.0755	0.0027	0.0399	0.0399
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	170.33	0.0826	0.0028	0.0409	0.0409
1.2D + 1.0Di + 1.0Wi 270° 50 mph Wind with 1" Radial Ice	187.50	0.0945	0.0028	0.0412	0.0413
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	50.00	0.016	-0.0022	0.0253	0.0253
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	75.00	0.0276	0.0025	0.0295	0.0295

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	87.50	0.0337	0.0026	0.0300	0.03
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	100.00	0.0405	0.0030	0.0342	0.0342
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	137.50	0.0657	0.0039	0.0449	0.0449
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	150.00	0.0753	0.0040	0.0461	0.0461
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	160.17	0.0831	0.0041	0.0469	0.0469
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	170.33	0.0914	0.0042	0.0481	0.0481
1.2D + 1.0Di + 1.0Wi 225° 50 mph Wind with 1" Radial Ice	187.50	0.1055	0.0042	0.0493	0.0493
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	50.00	0.0145	-0.0015	0.0238	0.0239
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	75.00	0.0256	0.0017	0.0281	0.0282
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	87.50	0.0315	0.0018	0.0290	0.029
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	100.00	0.0381	0.0021	0.0331	0.0331
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	137.50	0.0629	-0.0029	0.0441	0.0442
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	150.00	0.0725	0.0030	0.0458	0.0459
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	160.17	0.0805	0.0032	0.0480	0.0481
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	170.33	0.089	0.0033	0.0491	0.0492
1.2D + 1.0Di + 1.0Wi 180° 50 mph Wind with 1" Radial Ice	187.50	0.1036	0.0034	0.0506	0.0507
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	50.00	0.0159	0.0022	0.0254	0.0254
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	75.00	0.0277	0.0026	0.0300	0.03
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	87.50	0.034	0.0027	0.0310	0.031
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	100.00	0.041	0.0031	0.0355	0.0355
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	137.50	0.0675	0.0042	0.0475	0.0475
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	150.00	0.0778	0.0044	0.0502	0.0502
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	160.17	0.0866	0.0046	0.0526	0.0526
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	170.33	0.096	0.0047	0.0537	0.0537
1.2D + 1.0Di + 1.0Wi 135° 50 mph Wind with 1" Radial Ice	187.50	0.1119	0.0048	0.0556	0.0556
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	50.00	0.0145	0.0015	0.0238	0.0239
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	75.00	0.0256	0.0017	0.0281	0.0282
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	87.50	0.0315	0.0018	0.0290	0.0291
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	100.00	0.0381	0.0021	0.0331	0.0332
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	137.50	0.0629	0.0029	0.0442	0.0443
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	150.00	0.0726	0.0030	0.0460	0.0461
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	160.17	0.0806	0.0032	0.0482	0.0483
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	170.33	0.0892	0.0033	0.0493	0.0494
1.2D + 1.0Di + 1.0Wi 90° 50 mph Wind with 1" Radial Ice	187.50	0.1038	0.0034	0.0508	0.0509
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	50.00	0.016	0.0022	0.0253	0.0253
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	75.00	0.0276	0.0025	0.0295	0.0295
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	87.50	0.0337	0.0026	0.0301	0.0301
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	100.00	0.0406	0.0030	0.0343	0.0343
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	137.50	0.0658	0.0039	0.0450	0.045
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	150.00	0.0754	0.0040	0.0463	0.0463
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	160.17	0.0833	0.0041	0.0472	0.0472
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	170.33	0.0917	0.0042	0.0484	0.0484
1.2D + 1.0Di + 1.0Wi 45° 50 mph Wind with 1" Radial Ice	187.50	0.1058	0.0042	0.0495	0.0496
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	50.00	0.0146	0.0014	0.0237	0.0237
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	75.00	0.0255	0.0017	0.0273	0.0274
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	87.50	0.0312	0.0018	0.0276	0.0277
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	100.00	0.0375	0.0020	0.0313	0.0314
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	137.50	0.0604	0.0026	0.0400	0.0401
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	150.00	0.0689	0.0027	0.0401	0.0401
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	160.17	0.0757	0.0027	0.0401	0.0402
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	170.33	0.0828	0.0028	0.0411	0.0412
1.2D + 1.0Di + 1.0Wi Normal 50 mph Wind with 1" Radial Ice	187.50	0.0947	0.0028	0.0415	0.0415
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	50.00	0.0408	0.0069	0.0778	0.0781
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	75.00	0.0799	0.0082	0.0931	0.0934
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	87.50	0.1005	0.0087	0.0980	0.0984
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	100.00	0.1237	0.0099	0.1120	0.1124
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	137.50	0.2106	0.0134	0.1517	0.1517
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	150.00	0.2446	0.0138	0.1580	0.158
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	160.17	0.273	0.0141	0.1605	0.1605

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	170.33	0.3017	0.0145	0.1639	0.1645
0.9D + 1.0W 315° 115 mph Wind with No Ice (Reduced DL)	187.50	0.3513	0.0147	0.1665	0.1665
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	50.00	0.039	-0.0047	0.0739	0.0741
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	75.00	0.0762	-0.0056	0.0885	0.0887
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	87.50	0.0958	-0.0059	0.0932	0.0934
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	100.00	0.1179	-0.0067	0.1066	0.1068
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	137.50	0.2007	-0.0091	0.1443	0.1446
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	150.00	0.2331	-0.0094	0.1493	0.1496
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	160.17	0.2599	0.0096	0.1525	0.1528
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	170.33	0.2873	0.0099	0.1560	0.1563
0.9D + 1.0W 270° 115 mph Wind with No Ice (Reduced DL)	187.50	0.3344	0.0100	0.1586	0.1589
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	50.00	0.0414	-0.0070	0.0788	0.0791
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	75.00	0.081	-0.0083	0.0941	0.0945
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	87.50	0.1018	-0.0088	0.0989	0.0993
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	100.00	0.1252	-0.0100	0.1131	0.1135
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	137.50	0.2132	-0.0135	0.1531	0.1537
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	150.00	0.2475	0.0139	0.1598	0.1598
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	160.17	0.2759	0.0144	0.1626	0.1633
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	170.33	0.3053	0.0148	0.1672	0.1678
0.9D + 1.0W 225° 115 mph Wind with No Ice (Reduced DL)	187.50	0.3555	0.0149	0.1692	0.1696
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	50.00	0.039	-0.0047	0.0740	0.0742
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	75.00	0.0763	-0.0056	0.0889	0.089
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	87.50	0.096	-0.0059	0.0938	0.094
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	100.00	0.1182	-0.0068	0.1074	0.1076
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	137.50	0.2018	-0.0092	0.1461	0.1464
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	150.00	0.2347	-0.0095	0.1517	0.152
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	160.17	0.262	0.0098	0.1559	0.1561
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	170.33	0.2899	0.0101	0.1596	0.1599
0.9D + 1.0W 180° 115 mph Wind with No Ice (Reduced DL)	187.50	0.338	0.0102	0.1621	0.1624
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	50.00	0.0408	0.0069	0.0779	0.0782
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	75.00	0.0799	0.0083	0.0935	0.0939
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	87.50	0.1007	0.0087	0.0988	0.0992
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	100.00	0.1241	0.0100	0.1130	0.1134
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	137.50	0.212	0.0136	0.1539	0.154
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	150.00	0.2467	0.0141	0.1615	0.1615
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	160.17	0.2758	0.0145	0.1650	0.165
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	170.33	0.3053	0.0149	0.1685	0.1692
0.9D + 1.0W 135° 115 mph Wind with No Ice (Reduced DL)	187.50	0.3564	0.0151	0.1715	0.1718
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	50.00	0.0389	0.0047	0.0740	0.0741
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	75.00	0.0762	0.0056	0.0888	0.089
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	87.50	0.096	0.0059	0.0938	0.094
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	100.00	0.1182	0.0068	0.1073	0.1076
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	137.50	0.2018	0.0092	0.1460	0.1463
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	150.00	0.2346	0.0095	0.1517	0.152
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	160.17	0.2619	0.0098	0.1558	0.1561
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	170.33	0.2899	-0.0101	0.1596	0.1599
0.9D + 1.0W 90° 115 mph Wind with No Ice (Reduced DL)	187.50	0.338	0.0102	0.1621	0.1624
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	50.00	0.0414	0.0070	0.0788	0.0791
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	75.00	0.081	0.0083	0.0941	0.0945
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	87.50	0.1018	0.0088	0.0990	0.0993
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	100.00	0.1252	0.0100	0.1131	0.1136
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	137.50	0.2132	0.0135	0.1531	0.1537
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	150.00	0.2476	0.0140	0.1599	0.1599
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	160.17	0.2759	-0.0144	0.1627	0.1634
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	170.33	0.3054	-0.0148	0.1673	0.1679
0.9D + 1.0W 45° 115 mph Wind with No Ice (Reduced DL)	187.50	0.3556	-0.0149	0.1692	0.1697
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	50.00	0.039	0.0047	0.0740	0.0741
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	75.00	0.0762	0.0056	0.0885	0.0887
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	87.50	0.0959	0.0059	0.0933	0.0934

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	100.00	0.118	0.0067	0.1066	0.1069
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	137.50	0.2008	0.0091	0.1444	0.1447
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	150.00	0.2332	0.0094	0.1494	0.1496
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	160.17	0.2601	0.0096	0.1527	0.153
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	170.33	0.2874	-0.0099	0.1561	0.1564
0.9D + 1.0W Normal 115 mph Wind with No Ice (Reduced DL)	187.50	0.3345	0.0100	0.1587	0.159
1.2D + 1.0W 315° 115 mph Wind with No Ice	50.00	0.0409	0.0069	0.0779	0.0782
1.2D + 1.0W 315° 115 mph Wind with No Ice	75.00	0.0799	0.0082	0.0931	0.0934
1.2D + 1.0W 315° 115 mph Wind with No Ice	87.50	0.1005	0.0087	0.0980	0.0984
1.2D + 1.0W 315° 115 mph Wind with No Ice	100.00	0.1237	0.0099	0.1119	0.1123
1.2D + 1.0W 315° 115 mph Wind with No Ice	137.50	0.2105	0.0133	0.1516	0.1516
1.2D + 1.0W 315° 115 mph Wind with No Ice	150.00	0.2445	0.0137	0.1577	0.1577
1.2D + 1.0W 315° 115 mph Wind with No Ice	160.17	0.2728	0.0141	0.1600	0.16
1.2D + 1.0W 315° 115 mph Wind with No Ice	170.33	0.3014	0.0144	0.1633	0.164
1.2D + 1.0W 315° 115 mph Wind with No Ice	187.50	0.3508	0.0146	0.1661	0.1661
1.2D + 1.0W 270° 115 mph Wind with No Ice	50.00	0.039	-0.0047	0.0741	0.0742
1.2D + 1.0W 270° 115 mph Wind with No Ice	75.00	0.0762	-0.0056	0.0886	0.0888
1.2D + 1.0W 270° 115 mph Wind with No Ice	87.50	0.0959	-0.0059	0.0933	0.0935
1.2D + 1.0W 270° 115 mph Wind with No Ice	100.00	0.1179	-0.0067	0.1066	0.1069
1.2D + 1.0W 270° 115 mph Wind with No Ice	137.50	0.2007	-0.0091	0.1442	0.1445
1.2D + 1.0W 270° 115 mph Wind with No Ice	150.00	0.233	-0.0094	0.1491	0.1494
1.2D + 1.0W 270° 115 mph Wind with No Ice	160.17	0.2598	0.0096	0.1522	0.1525
1.2D + 1.0W 270° 115 mph Wind with No Ice	170.33	0.2871	0.0099	0.1557	0.156
1.2D + 1.0W 270° 115 mph Wind with No Ice	187.50	0.3341	0.0100	0.1583	0.1586
1.2D + 1.0W 225° 115 mph Wind with No Ice	50.00	0.0415	-0.0070	0.0789	0.0792
1.2D + 1.0W 225° 115 mph Wind with No Ice	75.00	0.081	-0.0083	0.0942	0.0945
1.2D + 1.0W 225° 115 mph Wind with No Ice	87.50	0.1018	-0.0088	0.0990	0.0994
1.2D + 1.0W 225° 115 mph Wind with No Ice	100.00	0.1253	-0.0100	0.1132	0.1136
1.2D + 1.0W 225° 115 mph Wind with No Ice	137.50	0.2133	-0.0136	0.1532	0.1538
1.2D + 1.0W 225° 115 mph Wind with No Ice	150.00	0.2477	-0.0140	0.1600	0.16
1.2D + 1.0W 225° 115 mph Wind with No Ice	160.17	0.2761	0.0144	0.1629	0.1635
1.2D + 1.0W 225° 115 mph Wind with No Ice	170.33	0.3055	0.0148	0.1674	0.168
1.2D + 1.0W 225° 115 mph Wind with No Ice	187.50	0.3558	0.0150	0.1696	0.1698
1.2D + 1.0W 180° 115 mph Wind with No Ice	50.00	0.039	-0.0047	0.0742	0.0743
1.2D + 1.0W 180° 115 mph Wind with No Ice	75.00	0.0763	-0.0056	0.0890	0.0892
1.2D + 1.0W 180° 115 mph Wind with No Ice	87.50	0.0961	-0.0060	0.0941	0.0943
1.2D + 1.0W 180° 115 mph Wind with No Ice	100.00	0.1184	-0.0068	0.1076	0.1079
1.2D + 1.0W 180° 115 mph Wind with No Ice	137.50	0.2022	-0.0093	0.1466	0.1469
1.2D + 1.0W 180° 115 mph Wind with No Ice	150.00	0.2351	-0.0096	0.1523	0.1526
1.2D + 1.0W 180° 115 mph Wind with No Ice	160.17	0.2626	0.0099	0.1566	0.1569
1.2D + 1.0W 180° 115 mph Wind with No Ice	170.33	0.2906	0.0101	0.1604	0.1607
1.2D + 1.0W 180° 115 mph Wind with No Ice	187.50	0.339	0.0103	0.1631	0.1634
1.2D + 1.0W 135° 115 mph Wind with No Ice	50.00	0.0408	0.0069	0.0780	0.0783
1.2D + 1.0W 135° 115 mph Wind with No Ice	75.00	0.08	0.0083	0.0937	0.094
1.2D + 1.0W 135° 115 mph Wind with No Ice	87.50	0.1008	0.0088	0.0990	0.0994
1.2D + 1.0W 135° 115 mph Wind with No Ice	100.00	0.1242	0.0100	0.1133	0.1137
1.2D + 1.0W 135° 115 mph Wind with No Ice	137.50	0.2124	0.0136	0.1545	0.1546
1.2D + 1.0W 135° 115 mph Wind with No Ice	150.00	0.2473	0.0141	0.1622	0.1622
1.2D + 1.0W 135° 115 mph Wind with No Ice	160.17	0.2766	0.0146	0.1661	0.1661
1.2D + 1.0W 135° 115 mph Wind with No Ice	170.33	0.3062	0.0150	0.1696	0.1702
1.2D + 1.0W 135° 115 mph Wind with No Ice	187.50	0.3576	0.0152	0.1728	0.1729
1.2D + 1.0W 90° 115 mph Wind with No Ice	50.00	0.0389	0.0047	0.0741	0.0743
1.2D + 1.0W 90° 115 mph Wind with No Ice	75.00	0.0763	0.0056	0.0890	0.0892
1.2D + 1.0W 90° 115 mph Wind with No Ice	87.50	0.096	0.0060	0.0941	0.0942
1.2D + 1.0W 90° 115 mph Wind with No Ice	100.00	0.1183	0.0068	0.1076	0.1078
1.2D + 1.0W 90° 115 mph Wind with No Ice	137.50	0.2021	0.0093	0.1465	0.1468
1.2D + 1.0W 90° 115 mph Wind with No Ice	150.00	0.2351	0.0096	0.1523	0.1526
1.2D + 1.0W 90° 115 mph Wind with No Ice	160.17	0.2625	0.0099	0.1567	0.157
1.2D + 1.0W 90° 115 mph Wind with No Ice	170.33	0.2906	0.0101	0.1604	0.1607

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W 90° 115 mph Wind with No Ice	187.50	0.339	0.0103	0.1631	0.1634
1.2D + 1.0W 45° 115 mph Wind with No Ice	50.00	0.0415	0.0070	0.0789	0.0792
1.2D + 1.0W 45° 115 mph Wind with No Ice	75.00	0.081	0.0083	0.0942	0.0945
1.2D + 1.0W 45° 115 mph Wind with No Ice	87.50	0.1019	0.0088	0.0991	0.0994
1.2D + 1.0W 45° 115 mph Wind with No Ice	100.00	0.1253	0.0100	0.1132	0.1137
1.2D + 1.0W 45° 115 mph Wind with No Ice	137.50	0.2134	0.0136	0.1533	0.1539
1.2D + 1.0W 45° 115 mph Wind with No Ice	150.00	0.2478	0.0140	0.1601	0.1601
1.2D + 1.0W 45° 115 mph Wind with No Ice	160.17	0.2762	-0.0144	0.1631	0.1636
1.2D + 1.0W 45° 115 mph Wind with No Ice	170.33	0.3056	-0.0148	0.1675	0.1682
1.2D + 1.0W 45° 115 mph Wind with No Ice	187.50	0.3559	-0.0150	0.1697	0.17
1.2D + 1.0W Normal 115 mph Wind with No Ice	50.00	0.039	0.0047	0.0741	0.0742
1.2D + 1.0W Normal 115 mph Wind with No Ice	75.00	0.0763	0.0056	0.0886	0.0888
1.2D + 1.0W Normal 115 mph Wind with No Ice	87.50	0.0959	0.0059	0.0933	0.0935
1.2D + 1.0W Normal 115 mph Wind with No Ice	100.00	0.118	0.0068	0.1067	0.1069
1.2D + 1.0W Normal 115 mph Wind with No Ice	137.50	0.2008	0.0091	0.1443	0.1446
1.2D + 1.0W Normal 115 mph Wind with No Ice	150.00	0.2332	0.0094	0.1492	0.1495
1.2D + 1.0W Normal 115 mph Wind with No Ice	160.17	0.26	0.0096	0.1524	0.1527
1.2D + 1.0W Normal 115 mph Wind with No Ice	170.33	0.2873	-0.0099	0.1559	0.1562
1.2D + 1.0W Normal 115 mph Wind with No Ice	187.50	0.3342	0.0100	0.1584	0.1587

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX* (kip)	FY* (kip)	FZ* (kip)
					*(-) Uplift and (+) Down		
1.2D + 1.0W Normal	22.94	0.00	45	1	-9.62	149.85	-19.44
	22.94	0.00	135	1a	4.60	-81.15	-14.49
	22.94	0.00	225	1b	-4.81	-81.76	-14.32
	22.94	0.00	315	1c	9.83	149.21	-19.19
1.2D + 1.0W 45°	22.94	0.00	45	1	-20.28	206.86	-20.60
	22.94	0.00	135	1a	-9.88	34.64	-4.81
	22.94	0.00	225	1b	-15.67	-138.78	-15.42
	22.94	0.00	315	1c	-4.56	33.42	-9.56
1.2D + 1.0W 90°	22.94	0.00	45	1	-19.20	149.85	-9.86
	22.94	0.00	135	1a	-19.43	150.43	9.67
	22.94	0.00	225	1b	-14.48	-81.76	-4.64
	22.94	0.00	315	1c	-14.32	-82.37	4.83
1.2D + 1.0W 135°	22.94	0.00	45	1	-9.71	34.05	4.67
	22.94	0.00	135	1a	-20.45	207.45	20.47
	22.94	0.00	225	1b	-4.66	34.03	9.69
	22.94	0.00	315	1c	-15.57	-139.38	15.56
1.2D + 1.0W 180°	22.94	0.00	45	1	4.63	-81.74	14.49
	22.94	0.00	135	1a	-9.66	150.43	19.44
	22.94	0.00	225	1b	9.87	149.82	19.19
	22.94	0.00	315	1c	-4.84	-82.37	14.32
1.2D + 1.0W 225°	22.94	0.00	45	1	15.42	-138.75	15.67
	22.94	0.00	135	1a	4.81	34.64	9.88
	22.94	0.00	225	1b	20.60	206.84	20.28
	22.94	0.00	315	1c	9.56	33.42	4.56
1.2D + 1.0W 270°	22.94	0.00	45	1	14.32	-81.74	4.79
	22.94	0.00	135	1a	14.48	-81.15	-4.60
	22.94	0.00	225	1b	19.43	149.82	9.63
	22.94	0.00	315	1c	19.20	149.21	-9.82
1.2D + 1.0W 315°	22.94	0.00	45	1	4.71	34.05	-9.74
	22.94	0.00	135	1a	15.52	-138.16	-15.53
	22.94	0.00	225	1b	9.73	34.03	-4.70
	22.94	0.00	315	1c	20.43	206.23	-20.41
0.9D + 1.0W Normal	22.94	0.00	45	1	-8.99	141.26	-18.81
	22.94	0.00	135	1a	5.22	-89.74	-15.12
	22.94	0.00	225	1b	-5.43	-90.19	-14.94
	22.94	0.00	315	1c	9.20	140.78	-18.57
0.9D + 1.0W 45°	22.94	0.00	45	1	-19.65	198.23	-19.97
	22.94	0.00	135	1a	-9.25	25.98	-5.44
	22.94	0.00	225	1b	-16.30	-147.17	-16.04
	22.94	0.00	315	1c	-5.19	25.06	-8.94
0.9D + 1.0W 90°	22.94	0.00	45	1	-18.58	141.26	-9.22
	22.94	0.00	135	1a	-18.80	141.70	9.03
	22.94	0.00	225	1b	-15.11	-90.19	-5.26
	22.94	0.00	315	1c	-14.95	-90.65	5.45
0.9D + 1.0W 135°	22.94	0.00	45	1	-9.09	25.54	5.31
	22.94	0.00	135	1a	-19.82	198.67	19.83
	22.94	0.00	225	1b	-5.29	25.52	9.07
	22.94	0.00	315	1c	-16.19	-147.62	16.18
0.9D + 1.0W 180°	22.94	0.00	45	1	5.25	-90.18	15.12
	22.94	0.00	135	1a	-9.02	141.70	18.81
	22.94	0.00	225	1b	9.23	141.24	18.57
	22.94	0.00	315	1c	-5.46	-90.65	14.94
0.9D + 1.0W 225°	22.94	0.00	45	1	16.04	-147.15	16.30
	22.94	0.00	135	1a	5.44	25.98	9.25
	22.94	0.00	225	1b	19.97	198.22	19.65
	22.94	0.00	315	1c	8.94	25.06	5.19
0.9D + 1.0W 270°	22.94	0.00	45	1	14.95	-90.18	5.42
	22.94	0.00	135	1a	15.11	-89.74	-5.23
	22.94	0.00	225	1b	18.80	141.24	9.00

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX* (kip)	FY* (kip)	FZ* (kip)
					*(-) Uplift and (+) Down		
0.9D + 1.0W 315°	22.94	0.00	315	1c	18.58	140.78	-9.19
	22.94	0.00	45	1	5.34	25.54	-9.12
	22.94	0.00	135	1a	16.15	-146.71	-16.16
	22.94	0.00	225	1b	9.10	25.52	-5.32
	22.94	0.00	315	1c	19.80	197.76	-19.79
1.2D + 1.0Di + 1.0Wi Normal	22.94	0.00	45	1	-6.49	94.95	-9.62
	22.94	0.00	135	1a	-2.23	25.95	-0.83
	22.94	0.00	225	1b	2.18	24.79	-0.85
	22.94	0.00	315	1c	6.55	93.76	-9.49
1.2D + 1.0Di + 1.0Wi 45°	22.94	0.00	45	1	-9.83	112.55	-9.98
	22.94	0.00	135	1a	-6.69	61.00	2.11
	22.94	0.00	225	1b	-1.19	7.20	-1.19
	22.94	0.00	315	1c	2.11	58.71	-6.54
1.2D + 1.0Di + 1.0Wi 90°	22.94	0.00	45	1	-9.50	94.95	-6.62
	22.94	0.00	135	1a	-9.62	96.04	6.57
	22.94	0.00	225	1b	-0.83	24.79	2.16
	22.94	0.00	315	1c	-0.85	23.66	-2.11
1.2D + 1.0Di + 1.0Wi 135°	22.94	0.00	45	1	-6.58	59.90	-2.15
	22.94	0.00	135	1a	-9.94	113.64	9.94
	22.94	0.00	225	1b	2.15	59.84	6.58
	22.94	0.00	315	1c	-1.23	6.07	1.23
1.2D + 1.0Di + 1.0Wi 180°	22.94	0.00	45	1	-2.16	24.86	0.83
	22.94	0.00	135	1a	-6.56	96.04	9.62
	22.94	0.00	225	1b	6.62	94.89	9.49
	22.94	0.00	315	1c	2.11	23.66	0.85
1.2D + 1.0Di + 1.0Wi 225°	22.94	0.00	45	1	1.19	7.26	1.19
	22.94	0.00	135	1a	-2.11	61.00	6.69
	22.94	0.00	225	1b	9.97	112.48	9.83
	22.94	0.00	315	1c	6.54	58.71	-2.11
1.2D + 1.0Di + 1.0Wi 270°	22.94	0.00	45	1	0.85	24.86	-2.18
	22.94	0.00	135	1a	0.83	25.95	2.23
	22.94	0.00	225	1b	9.62	94.89	6.49
	22.94	0.00	315	1c	9.50	93.76	-6.54
1.2D + 1.0Di + 1.0Wi 315°	22.94	0.00	45	1	-2.07	59.90	-6.65
	22.94	0.00	135	1a	1.15	8.35	-1.16
	22.94	0.00	225	1b	6.65	59.84	2.08
	22.94	0.00	315	1c	9.87	111.35	-9.86
1.2D + 1.0Ev + 1.0Eh Normal	22.94	0.00	45	1	-3.51	47.96	-4.25
	22.94	0.00	135	1a	-1.72	19.36	0.97
	22.94	0.00	225	1b	1.72	19.36	0.97
	22.94	0.00	315	1c	3.51	47.96	-4.25
1.2D + 1.0Ev + 1.0Eh 45°	22.94	0.00	45	1	-4.40	53.89	-4.40
	22.94	0.00	135	1a	-3.14	33.66	2.09
	22.94	0.00	225	1b	0.82	13.44	0.82
	22.94	0.00	315	1c	2.09	33.66	-3.14
1.2D + 1.0Ev + 1.0Eh 90°	22.94	0.00	45	1	-4.25	47.96	-3.51
	22.94	0.00	135	1a	-4.25	47.96	3.51
	22.94	0.00	225	1b	0.97	19.36	1.72
	22.94	0.00	315	1c	0.97	19.36	-1.72
1.2D + 1.0Ev + 1.0Eh 135°	22.94	0.00	45	1	-3.14	33.66	-2.09
	22.94	0.00	135	1a	-4.40	53.89	4.40
	22.94	0.00	225	1b	2.09	33.66	3.14
	22.94	0.00	315	1c	0.82	13.44	-0.82
1.2D + 1.0Ev + 1.0Eh 180°	22.94	0.00	45	1	-1.72	19.36	-0.97
	22.94	0.00	135	1a	-3.51	47.96	4.25
	22.94	0.00	225	1b	3.51	47.96	4.25
	22.94	0.00	315	1c	1.72	19.36	-0.97
1.2D + 1.0Ev + 1.0Eh 225°	22.94	0.00	45	1	-0.82	13.44	-0.82
	22.94	0.00	135	1a	-2.09	33.66	3.14

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX* (kip)	FY* (kip)	FZ* (kip)
					*(-) Uplift and (+) Down		
	22.94	0.00	225	1b	4.40	53.89	4.40
	22.94	0.00	315	1c	3.14	33.66	-2.09
1.2D + 1.0Ev + 1.0Eh 270°	22.94	0.00	45	1	-0.97	19.36	-1.72
	22.94	0.00	135	1a	-0.97	19.36	1.72
	22.94	0.00	225	1b	4.25	47.96	3.51
	22.94	0.00	315	1c	4.25	47.96	-3.51
1.2D + 1.0Ev + 1.0Eh 315°	22.94	0.00	45	1	-2.09	33.66	-3.14
	22.94	0.00	135	1a	-0.82	13.44	0.82
	22.94	0.00	225	1b	3.14	33.66	2.09
	22.94	0.00	315	1c	4.40	53.89	-4.40
0.9D - 1.0Ev + 1.0Eh Normal	22.94	0.00	45	1	-2.68	37.28	-3.42
	22.94	0.00	135	1a	-0.89	8.71	0.14
	22.94	0.00	225	1b	0.89	8.71	0.14
	22.94	0.00	315	1c	2.68	37.28	-3.42
0.9D - 1.0Ev + 1.0Eh 45°	22.94	0.00	45	1	-3.57	43.20	-3.57
	22.94	0.00	135	1a	-2.31	22.99	1.26
	22.94	0.00	225	1b	-0.01	2.79	-0.01
	22.94	0.00	315	1c	1.26	22.99	-2.31
0.9D - 1.0Ev + 1.0Eh 90°	22.94	0.00	45	1	-3.42	37.28	-2.68
	22.94	0.00	135	1a	-3.42	37.28	2.68
	22.94	0.00	225	1b	0.14	8.71	0.89
	22.94	0.00	315	1c	0.14	8.71	-0.89
0.9D - 1.0Ev + 1.0Eh 135°	22.94	0.00	45	1	-2.31	22.99	-1.26
	22.94	0.00	135	1a	-3.57	43.20	3.57
	22.94	0.00	225	1b	1.26	22.99	2.31
	22.94	0.00	315	1c	-0.01	2.79	0.01
0.9D - 1.0Ev + 1.0Eh 180°	22.94	0.00	45	1	-0.89	8.71	-0.14
	22.94	0.00	135	1a	-2.68	37.28	3.42
	22.94	0.00	225	1b	2.68	37.28	3.42
	22.94	0.00	315	1c	0.89	8.71	-0.14
0.9D - 1.0Ev + 1.0Eh 225°	22.94	0.00	45	1	0.01	2.79	0.01
	22.94	0.00	135	1a	-1.26	22.99	2.31
	22.94	0.00	225	1b	3.57	43.20	3.57
	22.94	0.00	315	1c	2.31	22.99	-1.26
0.9D - 1.0Ev + 1.0Eh 270°	22.94	0.00	45	1	-0.14	8.71	-0.89
	22.94	0.00	135	1a	-0.14	8.71	0.89
	22.94	0.00	225	1b	3.42	37.28	2.68
	22.94	0.00	315	1c	3.42	37.28	-2.68
0.9D - 1.0Ev + 1.0Eh 315°	22.94	0.00	45	1	-1.26	22.99	-2.31
	22.94	0.00	135	1a	0.01	2.79	-0.01
	22.94	0.00	225	1b	2.31	22.99	1.26
	22.94	0.00	315	1c	3.57	43.20	-3.57
1.0D + 1.0W Service Normal	22.94	0.00	45	1	-4.02	59.92	-6.76
	22.94	0.00	135	1a	-0.17	-2.68	-2.55
	22.94	0.00	225	1b	0.11	-3.19	-2.52
	22.94	0.00	315	1c	4.08	59.40	-6.67
1.0D + 1.0W Service 45°	22.94	0.00	45	1	-6.96	75.45	-7.06
	22.94	0.00	135	1a	-4.13	28.87	0.09
	22.94	0.00	225	1b	-2.86	-18.71	-2.81
	22.94	0.00	315	1c	0.13	27.85	-4.02
1.0D + 1.0W Service 90°	22.94	0.00	45	1	-6.67	59.92	-4.11
	22.94	0.00	135	1a	-6.75	60.41	4.05
	22.94	0.00	225	1b	-2.54	-3.19	0.13
	22.94	0.00	315	1c	-2.52	-3.69	-0.08
1.0D + 1.0W Service 135°	22.94	0.00	45	1	-4.06	28.38	-0.13
	22.94	0.00	135	1a	-7.02	75.94	7.03
	22.94	0.00	225	1b	0.13	28.36	4.06
	22.94	0.00	315	1c	-2.85	-19.22	2.85
1.0D + 1.0W Service 180°	22.94	0.00	45	1	-0.14	-3.17	2.54

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX* (kip)	FY* (kip)	FZ* (kip)
					(-) Uplift and (+) Down		
1.0D + 1.0W Service 225°	22.94	0.00	135	1a	-4.05	60.41	6.75
	22.94	0.00	225	1b	4.11	59.90	6.67
	22.94	0.00	315	1c	0.08	-3.69	2.52
	22.94	0.00	45	1	2.81	-18.69	2.86
	22.94	0.00	135	1a	-0.09	28.87	4.13
	22.94	0.00	225	1b	7.06	75.43	6.95
	22.94	0.00	315	1c	4.02	27.85	-0.13
1.0D + 1.0W Service 270°	22.94	0.00	45	1	2.52	-3.17	-0.11
	22.94	0.00	135	1a	2.54	-2.68	0.16
	22.94	0.00	225	1b	6.75	59.90	4.02
	22.94	0.00	315	1c	6.67	59.40	-4.07
1.0D + 1.0W Service 315°	22.94	0.00	45	1	-0.09	28.38	-4.09
	22.94	0.00	135	1a	2.82	-18.20	-2.82
	22.94	0.00	225	1b	4.09	28.36	0.10
	22.94	0.00	315	1c	7.00	74.92	-6.99

MAXIMUM REACTIONS SUMMARY

Individual		Global (DL+WL+IL)		Global (DL+WL)	
Max Uplift:	147.62 (kip)	Moment Ice:	2467.95 (kip-ft)	Moment:	7957.28 (kip-ft)
Max Down:	207.45 (kip)	Total Down Ice:	239.45 (kip)	Total Down:	136.14 (kip)
Max Shear:	28.94 (kip)	Total Shear Ice:	22.06 (kip)	Total Shear:	71.26 (kip)

1.2D + 1.0W 135°

Site Name: New Fairfield, CT
Site Number: 88014
Tower Type: SST
Design Loads (Factored) - Analysis per TIA-222-H Standards

Mat & Pier Foundation Analysis

Foundation Analysis Parameters		
Design / Analysis / Mapping:	Mapping	-
Compression/Leg:	207.5	k
Uplift/Leg:	147.6	k
Shear/Leg:	28.9	k
Global Moment:		k-ft
Global Axial:		k
Depth to Base of Foundation (l + t - h):	9	ft
Diameter of Pier (d):	3.5	ft
Length of Pier (l):	6.5	ft
Height of Pier above Ground (h):	0.5	ft
Pier Shape:	Square	
If Square: Pier Taper:	Pyramidal	
Pier Width at Base:	6	ft
Width of Pad (W):	16	ft
Length of Pad (L):	16	ft
Thickness of Pad (t):	3	ft
Tower Leg Center to Center:	32.45	ft
Number of Connection to Tower:	1	-
Tower Center from Mat Center:	0	ft
Depth Below Ground Surface to Water Table:	99	ft
Unit Weight of Soil Above Water Table:	120	pcf
Angle of Uplift:	15	°
Coefficient of Shear Friction:	0.67	-
Ultimate Compressive Bearing Pressure:	60,000	psf
Bearing Pressure Type:	Gross	-
Ultimate Passive Pressure on Pad Face:	900	psf
Ultimate Skin Friction:	0	psf
Soil Type:	Other	-
$\Phi_{Soil\ and\ Concrete\ Weight}$:	1.2	-
Φ_{Soil}:	0.75	-

Overturning Moment Usage		
Design OTM:	274.9	k-ft
OTM Resistance:	2307.7	k-ft
$M_u/\Phi_s M_n$:	11.9%	Pass

Soil Bearing Pressure Usage		
Applied Bearing Pressure:	1197.0	psf
Factored Nominal Bearing Pressure:	45000.0	psf
$P_u/\Phi_s P_n$:	2.7%	Pass
Load Direction Controling Design Bearing Pressure:	*Parallel to Pad Edge*	

Sliding Factor of Safety		
Ultimate Friction Resistance:	185.8	k
Ultimate Passive Pressure Resistance:	43.2	k
Total Factored Sliding Resistance:	171.7	k
$V_u/\Phi_s V_n$:	16.9%	Pass

Uplift and Pullout Usage		
Applied Uplift Force:	147.6	k
Ultimate Skin Friction Resistance:	0.0	k
Factored Uplift Capacity per Leg ($\Phi_s T_n$):	208.0	k
$T_u/\Phi_s T_n$:	71%	Pass

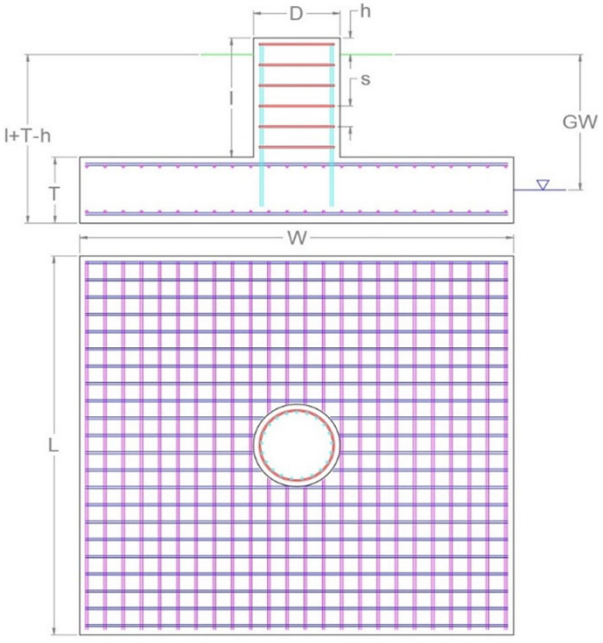


EXHIBIT 4

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

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis-VZW

SMART Tool Project #: 10210307
Colliers Engineering & Design Project #: 23777227 (Rev.1)

October 27, 2023

Site Information	*Site ID:*	*5000384780-VZW / NEW FAIRFIELD CT*
	Site Name:	*NEW FAIRFIELD CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*18 Titicus Mountain Road* *New Fairfield, Connecticut 06812* *Fairfield County*
	Latitude:	*41.450664°*
	Longitude:	*-73.515989°*
Structure Information	*Tower Type:*	*187.5-Ft Self Support*
	Mount Type:	*12.50-Ft Sector Frame*

FUZE ID # 17123932

Analysis Results

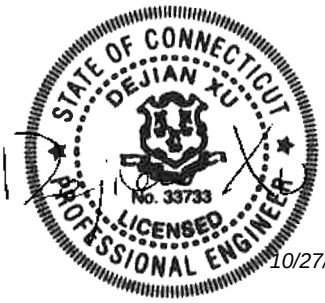
Sector Frame: **33.8% Pass***

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

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com

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

Report Prepared By: Selene Chen



10/27/2023

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 674980, dated February 13, 2023*
Previous Mount Analysis Report	*Maser Consulting Connecticut, Project #: 21777874, dated July 9, 2021*
Mount Specification	*Site Pro 1, Part #: VFA12-HD*
Preliminary Construction Drawings	*A.T. Engineering Services LLC., ACT Job #: 14519495_G0, dated August 29, 2023*

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}:	115 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.968
Seismic Parameters:	S_S:	0.219 g
	S_1:	0.056 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Load, Lv:	250 lbs.
	Maintenance Load, Lm:	500 lbs.
Analysis Software:	RISA-3D (V17)	

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
146.00	146.00	1	Raycap	RVZDC-6627-PF-48	Retained
		6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		3	Samsung	MT6407-77A	
		2	KAelus	KA-6030	

Any proposed antennas not currently installed should be mounted such that the centerline of the antennas does not exceed 6 inches vertically from the center of the antenna mount(s).

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
Face Horizontal	*13.1 %*	*Pass*
Standoff Plate	*33.8 %*	*Pass*
Standoff Horizontal	*13.5 %*	*Pass*
Standoff Diagonal	*6.3 %*	*Pass*
Antenna Pipe	*20.4 %*	*Pass*
Dual Antenna Pipe	*11.2 %*	*Pass*
Standoff Vertical	*3.9 %*	*Pass*
Tieback	*21.1 %*	*Pass*
Connection Check	*22.0 %*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**33.8%**

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	16.5	5.0	26.1	14.6
0.5	25.6	9.8	39.1	23.2
1	34.1	14.0	51.4	31.3

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

Requirements:

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

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

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Passing Mount Analysis

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

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

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

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MDG #: 5000384780 SMART Project #: 10210307 Fuze Project ID: 17123932

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

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

Base Requirements:

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

Photo Requirements:

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

        - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
    - Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

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

OR

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

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

Issue:

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

Response:

Special Instruction Confirmation:

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

☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.

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

OR

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

Comments:

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

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

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

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Certifying Individual:

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

Structure: 5000384780-VZW - NEW FAIRFIELD CT

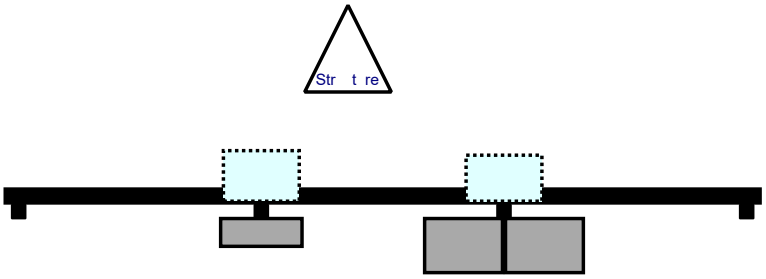
Se tor: **A** 10/27/2023

Str t re Type: Sel S pport 10210307

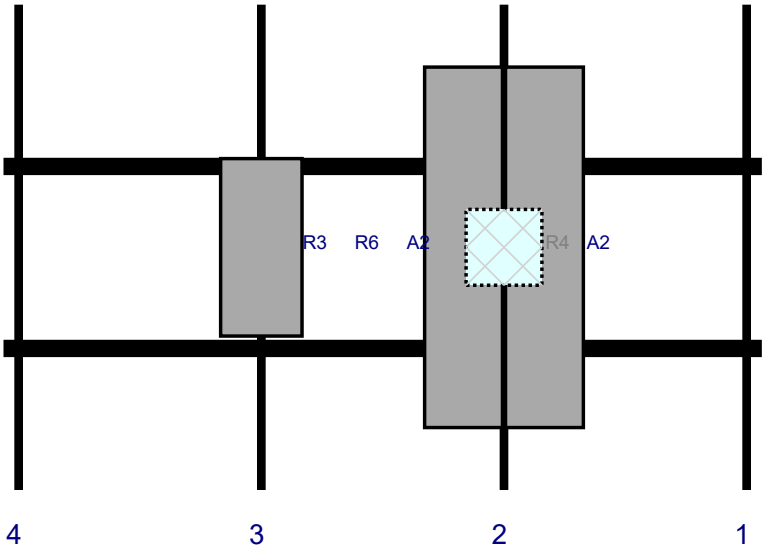
Mo t Elev: 146.00 P ge: 1

Colliers Engineering & Design

Plan View

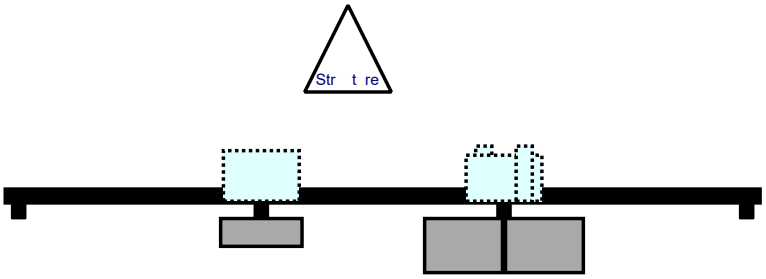


Front View - Loo i g t Str t re

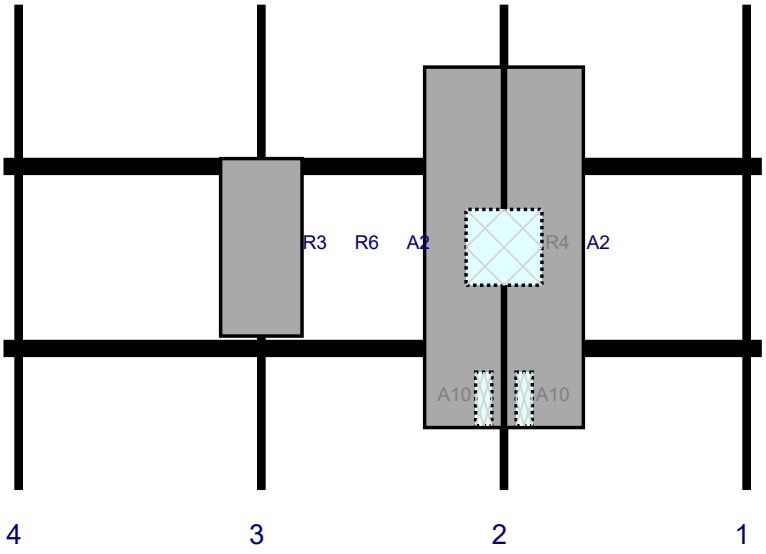


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A2	M 06FRO660-03	71.3	15.4	99	2		Fro t	48	-8	Added	
A2	M 06FRO660-03	71.3	15.4	99	2		Fro t	48	8	Added	
R4	RF4440d-13A	15	15	99	2		Behi d	48	0	Added	
R3	RF4439d-25A	15	15	51	3		Behi d	48	0	Added	
R6	MT6407-77A	35.1	16.1	51	3		Fro t	48	0	Added	
OVP	RVZDC-6627-PF-48	29.5	16.5		Me er					Ret i ed	05/03/2021

Plan View

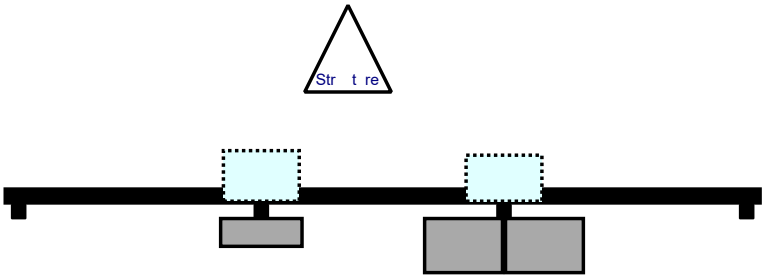


Front View - Loo i g t Str t re

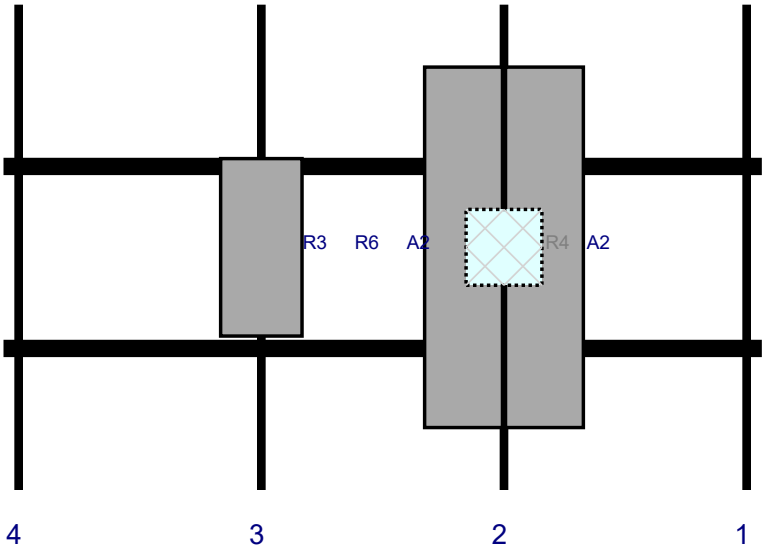


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A2	M 06FRO660-03	71.3	15.4	99	2		Fro t	48	-8	Added	
A2	M 06FRO660-03	71.3	15.4	99	2		Fro t	48	8	Added	
R4	RF4440d-13A	15	15	99	2		Behi d	48	0	Added	
A10	A-6030	10.6	3.2	99	2		Behi d	78	4	Added	
A10	A-6030	10.6	3.2	99	2		Behi d	78	-4	Added	
R3	RF4439d-25A	15	15	51	3		Behi d	48	0	Added	
R6	MT6407-77A	35.1	16.1	51	3		Fro t	48	0	Added	

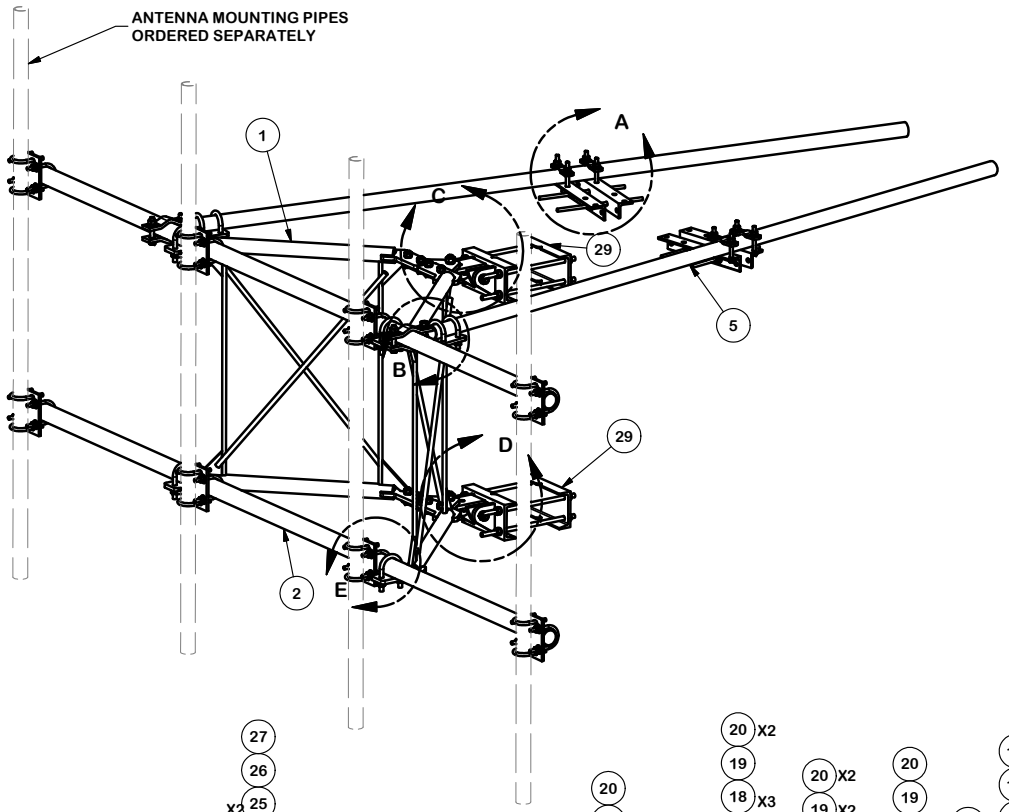
Plan View



Front View - Loo i g t Str t re

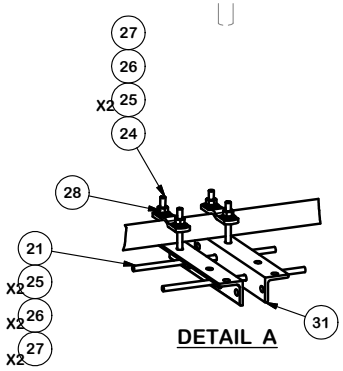


Re #	Model	Height (i)	Width (i)	H Dist Fr L.	Pipe #	Pipe Pos V	A t Pos	C. A t Fr T.	A t H O	St t s	V lid tio
A2	M 06FRO660-03	71.3	15.4	99	2		Fro t	48	-8	Added	
A2	M 06FRO660-03	71.3	15.4	99	2		Fro t	48	8	Added	
R4	RF4440d-13A	15	15	99	2		Behi d	48	0	Added	
R3	RF4439d-25A	15	15	51	3		Behi d	48	0	Added	
R6	MT6407-77A	35.1	16.1	51	3		Fro t	48	0	Added	

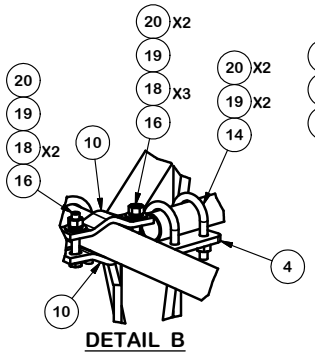


PARTS LIST

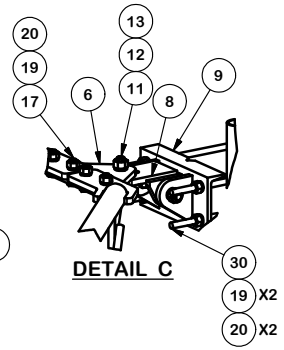
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAW	SUPPORT ARM		66.80	133.59
2	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
3	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
4	2	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	11.74
5	2	P2126	2-3/8" OD X 126" SCH 40 GALVANIZED PIPE	126 in	40.75	81.50
6	2	X-VFAPL3	VFA-HD PIVOT PLATE	24 in	9.69	19.38
7	1	X-LPB	LOWER PIVOT BRACKET		8.84	8.84
8	1	X-UPB	UPPER PIVOT BRACKET		8.84	8.84
9	2	X-HDPMW	HEAVY DUTY PIPE MOUNT WELDMENT		18.61	37.21
10	4	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.42	9.68
11	6	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	2.87
12	6	G34LW	3/4" HDG LOCKWASHER		0.04	0.26
13	6	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	1.27
14	4	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	4.00
15	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
16	4	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	1.78
17	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
18	10	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.70
19	44	G58LW	5/8" HDG LOCKWASHER		0.03	1.15
20	46	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	5.98
21	4	G12R-15	1/2" x 15" THREADED ROD (HDG.)		0.40	1.60
22	16	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	4.11
23	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
24	8	G12045	1/2" x 4.5" HDG HEX BOLT GR5 FULL THREAD	4 1/2 in	0.30	2.38
25	88	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	3.00
26	80	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	1.11
27	80	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	5.73
28	4	X-100064	CLAMP (4" V-CLAMP) GALVANIZED		0.91	3.65
29	2	X-HDPMBP	HEAVY DUTY PIPE MOUNT BACKING PLATE	12 in	13.44	26.89
30	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
31	4	X-LLTB	ANGLE BRACKET FOR LLTB	16 1/2 in	7.06	28.25
					TOTAL WT. #	648.71



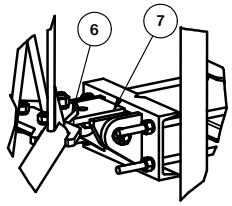
DETAIL A



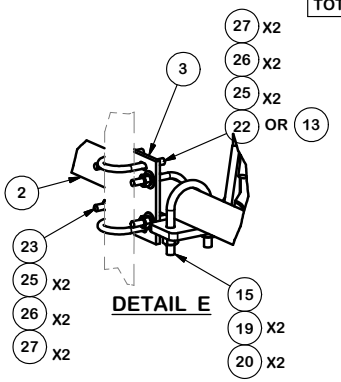
DETAIL B



DETAIL C



DETAIL D



DETAIL E

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES *(± 0.030")*
DRILLED AND GAS CUT HOLES *(± 0.030")* - NO CONING OF HOLES
LASER CUT EDGES AND HOLES *(± 0.010")* - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING *(± 0.030")*
ALL OTHER ASSEMBLY *(± 0.060")*

REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE
A	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017

REVISION HISTORY

DESCRIPTION
12'-6" HEAVY DUTY
V-FRAME ASSEMBLY
WITH TWO STIFF ARMS

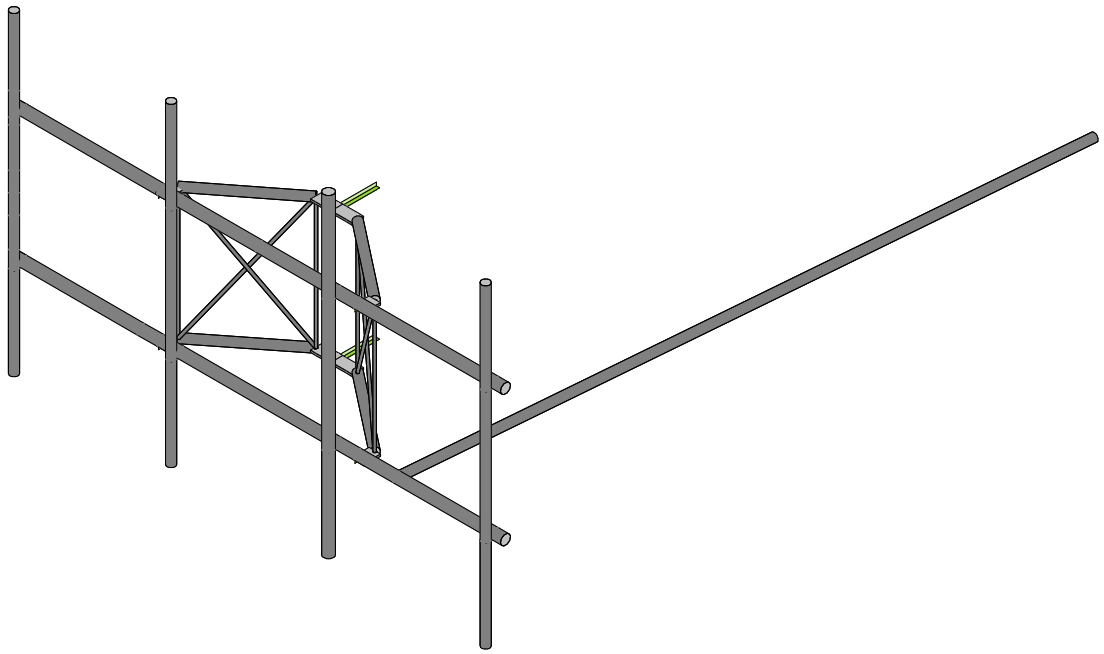
SITE PRO 1 — A valmont COMPANY

Engineering Support Team: 1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

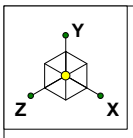
CPD NO.	DRAWN BY	ENG. APPROVAL	PART NO.
	CEK 6/1/2015		VFA12-HD

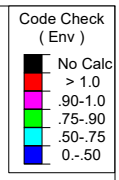
CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.
81	02	CUSTOMER	BMC 2/2/2017	VFA12-HD

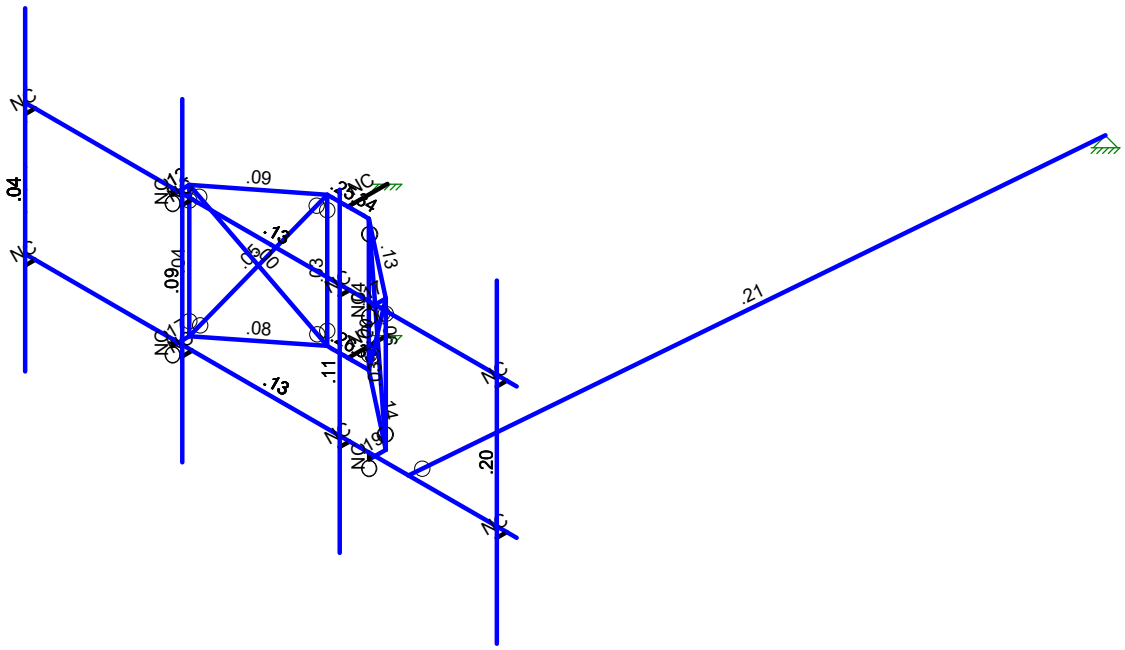


Envelope Only Solution

		SK - 1
		Oct 27, 2023 at 2:52 PM
		5000384780-VZW_MT_LOT_B_H....

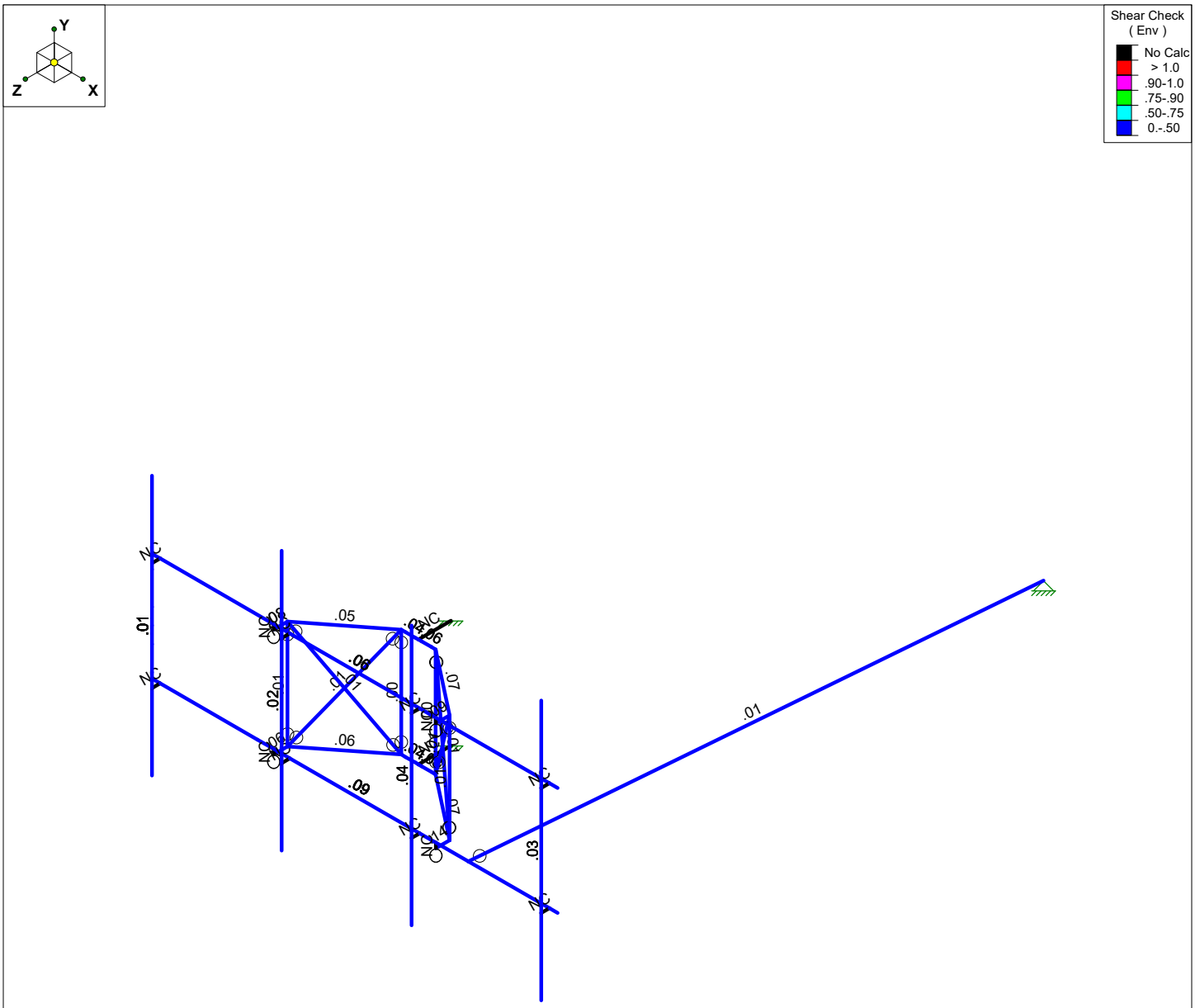






Member Code Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 2
		Oct 27, 2023 at 2:52 PM
		5000384780-VZW_MT_LOT_B_H....



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 3
		Oct 27, 2023 at 2:52 PM
		5000384780-VZW_MT_LOT_B_H....

Basic Load Cases

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

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(...
59	Structure Wi (180 Deg)	None						54		
60	Structure Wi (210 Deg)	None						54		
61	Structure Wi (240 Deg)	None						54		
62	Structure Wi (270 Deg)	None						54		
63	Structure Wi (300 Deg)	None						54		
64	Structure Wi (330 Deg)	None						54		
65	Structure Wm (0 Deg)	None						54		
66	Structure Wm (30 Deg)	None						54		
67	Structure Wm (60 Deg)	None						54		
68	Structure Wm (90 Deg)	None						54		
69	Structure Wm (120 Deg)	None						54		
70	Structure Wm (150 Deg)	None						54		
71	Structure Wm (180 Deg)	None						54		
72	Structure Wm (210 Deg)	None						54		
73	Structure Wm (240 Deg)	None						54		
74	Structure Wm (270 Deg)	None						54		
75	Structure Wm (300 Deg)	None						54		
76	Structure Wm (330 Deg)	None						54		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					39			
82	Antenna Eh (0 Deg)	None					26			
83	Antenna Eh (90 Deg)	None					26			
84	Structure Ev	ELY		-.047						
85	Structure Eh (0 Deg)	ELZ			-.117					
86	Structure Eh (90 Deg)	ELX	.117							

Load Combinations

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

Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N5	-8.833333	0.145833	8.083333	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
6	N6	-8.833333	3.479167	8.083333	0	
7	N7	-4.833333	0.145833	8.083333	0	
8	N8	-4.833333	3.479167	8.083333	0	
9	N9	-0.833333	0.145833	8.083333	0	
10	N10	-0.833333	3.479167	8.083333	0	
11	N11	3.166667	0.145833	8.083333	0	
12	N12	3.166667	3.479167	8.083333	0	
13	N13	-8.833333	0.145833	8.333333	0	
14	N14	-8.833333	3.479167	8.333333	0	
15	N15	-4.833333	0.145833	8.333333	0	
16	N16	-4.833333	3.479167	8.333333	0	
17	N17	-0.833333	0.145833	8.333333	0	
18	N18	-0.833333	3.479167	8.333333	0	
19	N19	3.166667	0.145833	8.333333	0	
20	N20	3.166667	3.479167	8.333333	0	
21	N21	-5.333333	0	8.083333	0	
22	N22	-5.333333	3.333333	8.083333	0	
23	N23	-0.333333	0	8.083333	0	
24	N24	-0.333333	3.333333	8.083333	0	
25	N25	-5.333333	0	7.661458	0	
26	N26	-5.333333	3.333333	7.661458	0	
27	N27	-0.333333	0	7.661458	0	
28	N28	-0.333333	3.333333	7.661458	0	
29	N29	-2.833333	0	6.119792	0	
30	N30	-2.833333	3.333333	6.119792	0	
31	N31	-3.364583	0	6.119792	0	
32	N32	-3.364583	3.333333	6.119792	0	
33	N33	-2.302083	0	6.119792	0	
34	N34	-2.302083	3.333333	6.119792	0	
35	N35	-2.833333	0	5.119792	0	
36	N36	-2.833333	3.333333	5.119792	0	
37	N39	-8.833333	5.8125	8.333333	0	
38	N40	-4.833333	5.8125	8.333333	0	
39	N41	-0.833333	5.8125	8.333333	0	
40	N42	3.166667	5.8125	8.333333	0	
41	N43	-8.833333	-2.1875	8.333333	0	
42	N44	-4.833333	-2.1875	8.333333	0	
43	N45	-0.833333	-2.1875	8.333333	0	
44	N46	3.166667	-2.1875	8.333333	0	
45	N58	-5.333333	3.333333	7.708333	0	
46	N76	-2.927083	0	6.119792	0	
47	N77	-3.229167	0	6.119792	0	
48	N78	-2.739583	0	6.119792	0	
49	N79	-2.4375	0	6.119792	0	
50	N80	-2.927083	3.333333	6.119792	0	
51	N81	-3.229167	3.333333	6.119792	0	
52	N82	-2.739583	3.333333	6.119792	0	
53	N83	-2.4375	3.333333	6.119792	0	
54	N58A	-2.833333	3.479167	8.083333	0	
55	N59	-5.333333	0.145833	8.083333	0	
56	N60	-5.333333	3.479167	8.083333	0	
57	N61	-0.333333	0.145833	8.083333	0	
58	N62	-0.333333	3.479167	8.083333	0	
59	N63	-8.833333	1.8125	8.333333	0	
60	N64	-8.833333	2.3125	8.333333	0	
61	N65	-8.833333	3.3125	8.333333	0	
62	N66	-8.833333	1.3125	8.333333	0	
63	N67	-8.833333	4.0625	8.333333	0	
64	N68	-8.833333	0.5625	8.333333	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
65	N69A	-5.833333	0.145833	8.083333	0	
66	N69B	2.040453	0.145833	-8.270828	0	
67	N69C	0.666667	0.145833	8.083333	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Dual Antenna Pipe	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Face Horizontal	PIPE_2.5	Beam	Pipe	Q235	Typical	1.61	1.45	1.45	2.89
4	Standoff Horizontal	PIPE_2.0	Beam	Pipe	Q235	Typical	1.02	.627	.627	1.25
5	Standoff Diagonal	SR_0.75	Beam	BAR	Q235	Typical	.442	.016	.016	.031
6	Tieback	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
7	Standoff Vertical	SR_0.625	Beam	BAR	Q235	Typical	.307	.007	.007	.015
8	Standoff Plate	PL5/8X3.5	Beam	BAR	Q235	Typical	2.188	.071	2.233	.253
9	tower pipe	PIPE_3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1...	Density[k/f...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3
7	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	FACE	N2	N1			Face Horizontal	Beam	Pipe	Q235	Typical
2	M2	N4	N3			Face Horizontal	Beam	Pipe	Q235	Typical
3	M3	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N6	N14			RIGID	None	None	RIGID	Typical
5	M5	N8	N16			RIGID	None	None	RIGID	Typical
6	LIVE1	N7	N15			RIGID	None	None	RIGID	Typical
7	M9	N10	N18			RIGID	None	None	RIGID	Typical
8	LIVE2	N9	N17			RIGID	None	None	RIGID	Typical
9	M11	N12	N20			RIGID	None	None	RIGID	Typical
10	M12	N11	N19			RIGID	None	None	RIGID	Typical
11	M13	N22	N26		90	Standoff Plate	Beam	BAR	Q235	Typical
12	M14	N21	N25		90	Standoff Plate	Beam	BAR	Q235	Typical
13	M15	N23	N27		90	Standoff Plate	Beam	BAR	Q235	Typical
14	M16	N24	N28		90	Standoff Plate	Beam	BAR	Q235	Typical
15	OVP1	N26	N32			Standoff Horiz...	Beam	Pipe	Q235	Typical
16	M18	N25	N31			Standoff Horiz...	Beam	Pipe	Q235	Typical
17	M19	N27	N33			Standoff Horiz...	Beam	Pipe	Q235	Typical
18	OVP	N28	N34			Standoff Horiz...	Beam	Pipe	Q235	Typical
19	M21	N32	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
20	M22	N34	N30		90	Standoff Plate	Beam	BAR	Q235	Typical
21	M23	N31	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
22	M24	N33	N29		90	Standoff Plate	Beam	BAR	Q235	Typical
23	M25	N31	N26			Standoff Diago...	Beam	BAR	Q235	Typical
24	M26	N32	N25			Standoff Diago...	Beam	BAR	Q235	Typical
25	M27	N33	N28			Standoff Diago...	Beam	BAR	Q235	Typical
26	M28	N27	N34			Standoff Diago...	Beam	BAR	Q235	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
27	M29	N29	N35			RIGID	None	None	RIGID	Typical
28	M30	N30	N36			RIGID	None	None	RIGID	Typical
29	MP4A	N39	N43			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
30	MP3A	N40	N44			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
31	MP2A	N41	N45			Dual Antenna ...	Beam	Pipe	A53 Gr. B	Typical
32	MP1A	N42	N46			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
33	M44	N25	N26			Standoff Vertical	Beam	BAR	Q235	Typical
34	M45	N31	N32			Standoff Vertical	Beam	BAR	Q235	Typical
35	M46	N33	N34			Standoff Vertical	Beam	BAR	Q235	Typical
36	M47	N27	N28			Standoff Vertical	Beam	BAR	Q235	Typical
37	M47B	N22	N60			RIGID	None	None	RIGID	Typical
38	M48A	N21	N59			RIGID	None	None	RIGID	Typical
39	M49A	N24	N62			RIGID	None	None	RIGID	Typical
40	M50A	N23	N61			RIGID	None	None	RIGID	Typical
41	M51A	N30	N36			RIGID	None	None	RIGID	Typical
42	M52A	N29	N35			RIGID	None	None	RIGID	Typical
43	M44B	N69C	N69B			Tieback	Beam	Pipe	A53 Gr. B	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	FACE						Yes				None
2	M2						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	LIVE1						Yes	** NA **			None
7	M9						Yes	** NA **			None
8	LIVE2						Yes	** NA **			None
9	M11						Yes	** NA **			None
10	M12						Yes	** NA **			None
11	M13						Yes	Default			None
12	M14						Yes	Default			None
13	M15						Yes				None
14	M16						Yes				None
15	OVP1						Yes	Default			None
16	M18						Yes				None
17	M19						Yes				None
18	OVP						Yes	Default			None
19	M21						Yes	Default			None
20	M22						Yes				None
21	M23						Yes				None
22	M24						Yes				None
23	M25	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
24	M26	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
25	M27	BenPIN	BenPIN			Euler Buc...	Yes				None
26	M28	BenPIN	BenPIN			Euler Buc...	Yes				None
27	M29						Yes	** NA **		Inactive	None
28	M30						Yes	** NA **		Inactive	None
29	MP4A						Yes				None
30	MP3A						Yes				None
31	MP2A						Yes				None
32	MP1A						Yes				None
33	M44	BenPIN	BenPIN				Yes				None
34	M45	BenPIN	BenPIN				Yes				None
35	M46	BenPIN	BenPIN				Yes				None
36	M47	BenPIN	BenPIN				Yes	Default			None
37	M47B		OOOXOO				Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
38	M48A		OOOXOO				Yes	** NA **			None
39	M49A		OOOXOO				Yes	** NA **			None
40	M50A		OOOXOO				Yes	** NA **			None
41	M51A						Yes	** NA **			None
42	M52A						Yes	** NA **			None
43	M44B	BenPIN					Yes	Default			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-43.55	3
2	MP3A	My	-.022	3
3	MP3A	Mz	0	3
4	MP3A	Y	-43.55	5
5	MP3A	My	-.022	5
6	MP3A	Mz	0	5
7	MP2A	Y	-39	2.25
8	MP2A	My	-.033	2.25
9	MP2A	Mz	-.026	2.25
10	MP2A	Y	-39	5.75
11	MP2A	My	-.033	5.75
12	MP2A	Mz	-.026	5.75
13	MP2A	Y	-39	2.25
14	MP2A	My	-.033	2.25
15	MP2A	Mz	.026	2.25
16	MP2A	Y	-39	5.75
17	MP2A	My	-.033	5.75
18	MP2A	Mz	.026	5.75
19	MP3A	Y	-74.7	4
20	MP3A	My	.037	4
21	MP3A	Mz	0	4
22	MP2A	Y	-70.3	4
23	MP2A	My	.035	4
24	MP2A	Mz	0	4
25	OVP	Y	-32	1.25
26	OVP	My	0	1.25
27	OVP	Mz	0	1.25
28	MP2A	Y	-8.8	6
29	MP2A	My	.009	6
30	MP2A	Mz	.003	6
31	MP2A	Y	-8.8	7
32	MP2A	My	.009	7
33	MP2A	Mz	.003	7
34	MP2A	Y	-8.8	6
35	MP2A	My	.009	6
36	MP2A	Mz	-.003	6
37	MP2A	Y	-8.8	7
38	MP2A	My	.009	7
39	MP2A	Mz	-.003	7

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-35.831	3
2	MP3A	My	-.018	3
3	MP3A	Mz	0	3
4	MP3A	Y	-35.831	5
5	MP3A	My	-.018	5
6	MP3A	Mz	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	Y	-82.955	2.25
8	MP2A	My	-.069	2.25
9	MP2A	Mz	-.055	2.25
10	MP2A	Y	-82.955	5.75
11	MP2A	My	-.069	5.75
12	MP2A	Mz	-.055	5.75
13	MP2A	Y	-82.955	2.25
14	MP2A	My	-.069	2.25
15	MP2A	Mz	.055	2.25
16	MP2A	Y	-82.955	5.75
17	MP2A	My	-.069	5.75
18	MP2A	Mz	.055	5.75
19	MP3A	Y	-45.179	4
20	MP3A	My	.023	4
21	MP3A	Mz	0	4
22	MP2A	Y	-43.025	4
23	MP2A	My	.022	4
24	MP2A	Mz	0	4
25	OVP	Y	-88.442	1.25
26	OVP	My	0	1.25
27	OVP	Mz	0	1.25
28	MP2A	Y	3.3	6
29	MP2A	My	-.003	6
30	MP2A	Mz	-.001	6
31	MP2A	Y	3.3	7
32	MP2A	My	-.003	7
33	MP2A	Mz	-.001	7
34	MP2A	Y	3.3	6
35	MP2A	My	-.003	6
36	MP2A	Mz	.001	6
37	MP2A	Y	3.3	7
38	MP2A	My	-.003	7
39	MP2A	Mz	.001	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-60.479	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-60.479	5
6	MP3A	Mx	0	5
7	MP2A	X	0	2.25
8	MP2A	Z	-72.976	2.25
9	MP2A	Mx	.049	2.25
10	MP2A	X	0	5.75
11	MP2A	Z	-72.976	5.75
12	MP2A	Mx	.049	5.75
13	MP2A	X	0	2.25
14	MP2A	Z	-72.976	2.25
15	MP2A	Mx	-.049	2.25
16	MP2A	X	0	5.75
17	MP2A	Z	-72.976	5.75
18	MP2A	Mx	-.049	5.75
19	MP3A	X	0	4
20	MP3A	Z	-47.828	4
21	MP3A	Mx	0	4
22	MP2A	X	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2A	Z	-47.828	4
24	MP2A	Mx	0	4
25	OVP	X	0	1.25
26	OVP	Z	-91.952	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	0	6
29	MP2A	Z	-14.811	6
30	MP2A	Mx	-.005	6
31	MP2A	X	0	7
32	MP2A	Z	-14.811	7
33	MP2A	Mx	-.005	7
34	MP2A	X	0	6
35	MP2A	Z	-14.811	6
36	MP2A	Mx	.005	6
37	MP2A	X	0	7
38	MP2A	Z	-14.811	7
39	MP2A	Mx	.005	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	25.283	3
2	MP3A	Z	-43.792	3
3	MP3A	Mx	-.013	3
4	MP3A	X	25.283	5
5	MP3A	Z	-43.792	5
6	MP3A	Mx	-.013	5
7	MP2A	X	34.193	2.25
8	MP2A	Z	-59.224	2.25
9	MP2A	Mx	.011	2.25
10	MP2A	X	34.193	5.75
11	MP2A	Z	-59.224	5.75
12	MP2A	Mx	.011	5.75
13	MP2A	X	34.193	2.25
14	MP2A	Z	-59.224	2.25
15	MP2A	Mx	-.068	2.25
16	MP2A	X	34.193	5.75
17	MP2A	Z	-59.224	5.75
18	MP2A	Mx	-.068	5.75
19	MP3A	X	21.947	4
20	MP3A	Z	-38.013	4
21	MP3A	Mx	.011	4
22	MP2A	X	21.561	4
23	MP2A	Z	-37.345	4
24	MP2A	Mx	.011	4
25	OVP	X	48.908	1.25
26	OVP	Z	-84.71	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	7.411	6
29	MP2A	Z	-12.836	6
30	MP2A	Mx	.003	6
31	MP2A	X	7.411	7
32	MP2A	Z	-12.836	7
33	MP2A	Mx	.003	7
34	MP2A	X	7.411	6
35	MP2A	Z	-12.836	6
36	MP2A	Mx	.012	6
37	MP2A	X	7.411	7
38	MP2A	Z	-12.836	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP2A	Mx	.012	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	26.622	3
2	MP3A	Z	-15.37	3
3	MP3A	Mx	-.013	3
4	MP3A	X	26.622	5
5	MP3A	Z	-15.37	5
6	MP3A	Mx	-.013	5
7	MP2A	X	51.274	2.25
8	MP2A	Z	-29.603	2.25
9	MP2A	Mx	-.023	2.25
10	MP2A	X	51.274	5.75
11	MP2A	Z	-29.603	5.75
12	MP2A	Mx	-.023	5.75
13	MP2A	X	51.274	2.25
14	MP2A	Z	-29.603	2.25
15	MP2A	Mx	-.062	2.25
16	MP2A	X	51.274	5.75
17	MP2A	Z	-29.603	5.75
18	MP2A	Mx	-.062	5.75
19	MP3A	X	31.199	4
20	MP3A	Z	-18.012	4
21	MP3A	Mx	.016	4
22	MP2A	X	29.194	4
23	MP2A	Z	-16.855	4
24	MP2A	Mx	.015	4
25	OVP	X	79.633	1.25
26	OVP	Z	-45.976	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	12.855	6
29	MP2A	Z	-7.422	6
30	MP2A	Mx	.01	6
31	MP2A	X	12.855	7
32	MP2A	Z	-7.422	7
33	MP2A	Mx	.01	7
34	MP2A	X	12.855	6
35	MP2A	Z	-7.422	6
36	MP2A	Mx	.015	6
37	MP2A	X	12.855	7
38	MP2A	Z	-7.422	7
39	MP2A	Mx	.015	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	20.828	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.01	3
4	MP3A	X	20.828	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.01	5
7	MP2A	X	54.616	2.25
8	MP2A	Z	0	2.25
9	MP2A	Mx	-.046	2.25
10	MP2A	X	54.616	5.75
11	MP2A	Z	0	5.75
12	MP2A	Mx	-.046	5.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2A	X	54.616	2.25
14	MP2A	Z	0	2.25
15	MP2A	Mx	-.046	2.25
16	MP2A	X	54.616	5.75
17	MP2A	Z	0	5.75
18	MP2A	Mx	-.046	5.75
19	MP3A	X	32.091	4
20	MP3A	Z	0	4
21	MP3A	Mx	.016	4
22	MP2A	X	29.005	4
23	MP2A	Z	0	4
24	MP2A	Mx	.015	4
25	OVP	X	80.227	1.25
26	OVP	Z	0	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	14.855	6
29	MP2A	Z	0	6
30	MP2A	Mx	.015	6
31	MP2A	X	14.855	7
32	MP2A	Z	0	7
33	MP2A	Mx	.015	7
34	MP2A	X	14.855	6
35	MP2A	Z	0	6
36	MP2A	Mx	.015	6
37	MP2A	X	14.855	7
38	MP2A	Z	0	7
39	MP2A	Mx	.015	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	26.622	3
2	MP3A	Z	15.37	3
3	MP3A	Mx	-.013	3
4	MP3A	X	26.622	5
5	MP3A	Z	15.37	5
6	MP3A	Mx	-.013	5
7	MP2A	X	51.274	2.25
8	MP2A	Z	29.603	2.25
9	MP2A	Mx	-.062	2.25
10	MP2A	X	51.274	5.75
11	MP2A	Z	29.603	5.75
12	MP2A	Mx	-.062	5.75
13	MP2A	X	51.274	2.25
14	MP2A	Z	29.603	2.25
15	MP2A	Mx	-.023	2.25
16	MP2A	X	51.274	5.75
17	MP2A	Z	29.603	5.75
18	MP2A	Mx	-.023	5.75
19	MP3A	X	31.199	4
20	MP3A	Z	18.012	4
21	MP3A	Mx	.016	4
22	MP2A	X	29.194	4
23	MP2A	Z	16.855	4
24	MP2A	Mx	.015	4
25	OVP	X	64.401	1.25
26	OVP	Z	37.182	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	12.855	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2A	Z	7.422	6
30	MP2A	Mx	.015	6
31	MP2A	X	12.855	7
32	MP2A	Z	7.422	7
33	MP2A	Mx	.015	7
34	MP2A	X	12.855	6
35	MP2A	Z	7.422	6
36	MP2A	Mx	.01	6
37	MP2A	X	12.855	7
38	MP2A	Z	7.422	7
39	MP2A	Mx	.01	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	25.283	3
2	MP3A	Z	43.792	3
3	MP3A	Mx	-.013	3
4	MP3A	X	25.283	5
5	MP3A	Z	43.792	5
6	MP3A	Mx	-.013	5
7	MP2A	X	34.193	2.25
8	MP2A	Z	59.224	2.25
9	MP2A	Mx	-.068	2.25
10	MP2A	X	34.193	5.75
11	MP2A	Z	59.224	5.75
12	MP2A	Mx	-.068	5.75
13	MP2A	X	34.193	2.25
14	MP2A	Z	59.224	2.25
15	MP2A	Mx	.011	2.25
16	MP2A	X	34.193	5.75
17	MP2A	Z	59.224	5.75
18	MP2A	Mx	.011	5.75
19	MP3A	X	21.947	4
20	MP3A	Z	38.013	4
21	MP3A	Mx	.011	4
22	MP2A	X	21.561	4
23	MP2A	Z	37.345	4
24	MP2A	Mx	.011	4
25	OVP	X	40.113	1.25
26	OVP	Z	69.479	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	7.411	6
29	MP2A	Z	12.836	6
30	MP2A	Mx	.012	6
31	MP2A	X	7.411	7
32	MP2A	Z	12.836	7
33	MP2A	Mx	.012	7
34	MP2A	X	7.411	6
35	MP2A	Z	12.836	6
36	MP2A	Mx	.003	6
37	MP2A	X	7.411	7
38	MP2A	Z	12.836	7
39	MP2A	Mx	.003	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	60.479	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	60.479	5
6	MP3A	Mx	0	5
7	MP2A	X	0	2.25
8	MP2A	Z	72.976	2.25
9	MP2A	Mx	-.049	2.25
10	MP2A	X	0	5.75
11	MP2A	Z	72.976	5.75
12	MP2A	Mx	-.049	5.75
13	MP2A	X	0	2.25
14	MP2A	Z	72.976	2.25
15	MP2A	Mx	.049	2.25
16	MP2A	X	0	5.75
17	MP2A	Z	72.976	5.75
18	MP2A	Mx	.049	5.75
19	MP3A	X	0	4
20	MP3A	Z	47.828	4
21	MP3A	Mx	0	4
22	MP2A	X	0	4
23	MP2A	Z	47.828	4
24	MP2A	Mx	0	4
25	OVP	X	0	1.25
26	OVP	Z	91.952	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	0	6
29	MP2A	Z	14.811	6
30	MP2A	Mx	.005	6
31	MP2A	X	0	7
32	MP2A	Z	14.811	7
33	MP2A	Mx	.005	7
34	MP2A	X	0	6
35	MP2A	Z	14.811	6
36	MP2A	Mx	-.005	6
37	MP2A	X	0	7
38	MP2A	Z	14.811	7
39	MP2A	Mx	-.005	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-25.283	3
2	MP3A	Z	43.792	3
3	MP3A	Mx	.013	3
4	MP3A	X	-25.283	5
5	MP3A	Z	43.792	5
6	MP3A	Mx	.013	5
7	MP2A	X	-34.193	2.25
8	MP2A	Z	59.224	2.25
9	MP2A	Mx	-.011	2.25
10	MP2A	X	-34.193	5.75
11	MP2A	Z	59.224	5.75
12	MP2A	Mx	-.011	5.75
13	MP2A	X	-34.193	2.25
14	MP2A	Z	59.224	2.25
15	MP2A	Mx	.068	2.25
16	MP2A	X	-34.193	5.75
17	MP2A	Z	59.224	5.75
18	MP2A	Mx	.068	5.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP3A	X	-21.947	4
20	MP3A	Z	38.013	4
21	MP3A	Mx	-.011	4
22	MP2A	X	-21.561	4
23	MP2A	Z	37.345	4
24	MP2A	Mx	-.011	4
25	OVP	X	-48.908	1.25
26	OVP	Z	84.71	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-7.411	6
29	MP2A	Z	12.836	6
30	MP2A	Mx	-.003	6
31	MP2A	X	-7.411	7
32	MP2A	Z	12.836	7
33	MP2A	Mx	-.003	7
34	MP2A	X	-7.411	6
35	MP2A	Z	12.836	6
36	MP2A	Mx	-.012	6
37	MP2A	X	-7.411	7
38	MP2A	Z	12.836	7
39	MP2A	Mx	-.012	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-26.622	3
2	MP3A	Z	15.37	3
3	MP3A	Mx	.013	3
4	MP3A	X	-26.622	5
5	MP3A	Z	15.37	5
6	MP3A	Mx	.013	5
7	MP2A	X	-51.274	2.25
8	MP2A	Z	29.603	2.25
9	MP2A	Mx	.023	2.25
10	MP2A	X	-51.274	5.75
11	MP2A	Z	29.603	5.75
12	MP2A	Mx	.023	5.75
13	MP2A	X	-51.274	2.25
14	MP2A	Z	29.603	2.25
15	MP2A	Mx	.062	2.25
16	MP2A	X	-51.274	5.75
17	MP2A	Z	29.603	5.75
18	MP2A	Mx	.062	5.75
19	MP3A	X	-31.199	4
20	MP3A	Z	18.012	4
21	MP3A	Mx	-.016	4
22	MP2A	X	-29.194	4
23	MP2A	Z	16.855	4
24	MP2A	Mx	-.015	4
25	OVP	X	-79.633	1.25
26	OVP	Z	45.976	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-12.855	6
29	MP2A	Z	7.422	6
30	MP2A	Mx	-.01	6
31	MP2A	X	-12.855	7
32	MP2A	Z	7.422	7
33	MP2A	Mx	-.01	7
34	MP2A	X	-12.855	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2A	Z	7.422	6
36	MP2A	Mx	-.015	6
37	MP2A	X	-12.855	7
38	MP2A	Z	7.422	7
39	MP2A	Mx	-.015	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-20.828	3
2	MP3A	Z	0	3
3	MP3A	Mx	.01	3
4	MP3A	X	-20.828	5
5	MP3A	Z	0	5
6	MP3A	Mx	.01	5
7	MP2A	X	-54.616	2.25
8	MP2A	Z	0	2.25
9	MP2A	Mx	.046	2.25
10	MP2A	X	-54.616	5.75
11	MP2A	Z	0	5.75
12	MP2A	Mx	.046	5.75
13	MP2A	X	-54.616	2.25
14	MP2A	Z	0	2.25
15	MP2A	Mx	.046	2.25
16	MP2A	X	-54.616	5.75
17	MP2A	Z	0	5.75
18	MP2A	Mx	.046	5.75
19	MP3A	X	-32.091	4
20	MP3A	Z	0	4
21	MP3A	Mx	-.016	4
22	MP2A	X	-29.005	4
23	MP2A	Z	0	4
24	MP2A	Mx	-.015	4
25	OVP	X	-80.227	1.25
26	OVP	Z	0	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-14.855	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.015	6
31	MP2A	X	-14.855	7
32	MP2A	Z	0	7
33	MP2A	Mx	-.015	7
34	MP2A	X	-14.855	6
35	MP2A	Z	0	6
36	MP2A	Mx	-.015	6
37	MP2A	X	-14.855	7
38	MP2A	Z	0	7
39	MP2A	Mx	-.015	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-26.622	3
2	MP3A	Z	-15.37	3
3	MP3A	Mx	.013	3
4	MP3A	X	-26.622	5
5	MP3A	Z	-15.37	5
6	MP3A	Mx	.013	5
7	MP2A	X	-51.274	2.25
8	MP2A	Z	-29.603	2.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	.062	2.25
10	MP2A	X	-51.274	5.75
11	MP2A	Z	-29.603	5.75
12	MP2A	Mx	.062	5.75
13	MP2A	X	-51.274	2.25
14	MP2A	Z	-29.603	2.25
15	MP2A	Mx	.023	2.25
16	MP2A	X	-51.274	5.75
17	MP2A	Z	-29.603	5.75
18	MP2A	Mx	.023	5.75
19	MP3A	X	-31.199	4
20	MP3A	Z	-18.012	4
21	MP3A	Mx	-.016	4
22	MP2A	X	-29.194	4
23	MP2A	Z	-16.855	4
24	MP2A	Mx	-.015	4
25	OVP	X	-64.401	1.25
26	OVP	Z	-37.182	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-12.855	6
29	MP2A	Z	-7.422	6
30	MP2A	Mx	-.015	6
31	MP2A	X	-12.855	7
32	MP2A	Z	-7.422	7
33	MP2A	Mx	-.015	7
34	MP2A	X	-12.855	6
35	MP2A	Z	-7.422	6
36	MP2A	Mx	-.01	6
37	MP2A	X	-12.855	7
38	MP2A	Z	-7.422	7
39	MP2A	Mx	-.01	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-25.283	3
2	MP3A	Z	-43.792	3
3	MP3A	Mx	.013	3
4	MP3A	X	-25.283	5
5	MP3A	Z	-43.792	5
6	MP3A	Mx	.013	5
7	MP2A	X	-34.193	2.25
8	MP2A	Z	-59.224	2.25
9	MP2A	Mx	.068	2.25
10	MP2A	X	-34.193	5.75
11	MP2A	Z	-59.224	5.75
12	MP2A	Mx	.068	5.75
13	MP2A	X	-34.193	2.25
14	MP2A	Z	-59.224	2.25
15	MP2A	Mx	-.011	2.25
16	MP2A	X	-34.193	5.75
17	MP2A	Z	-59.224	5.75
18	MP2A	Mx	-.011	5.75
19	MP3A	X	-21.947	4
20	MP3A	Z	-38.013	4
21	MP3A	Mx	-.011	4
22	MP2A	X	-21.561	4
23	MP2A	Z	-37.345	4
24	MP2A	Mx	-.011	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	OVP	X	-40.113	1.25
26	OVP	Z	-69.479	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-7.411	6
29	MP2A	Z	-12.836	6
30	MP2A	Mx	-.012	6
31	MP2A	X	-7.411	7
32	MP2A	Z	-12.836	7
33	MP2A	Mx	-.012	7
34	MP2A	X	-7.411	6
35	MP2A	Z	-12.836	6
36	MP2A	Mx	-.003	6
37	MP2A	X	-7.411	7
38	MP2A	Z	-12.836	7
39	MP2A	Mx	-.003	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-15.495	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-15.495	5
6	MP3A	Mx	0	5
7	MP2A	X	0	2.25
8	MP2A	Z	-31.404	2.25
9	MP2A	Mx	.021	2.25
10	MP2A	X	0	5.75
11	MP2A	Z	-31.404	5.75
12	MP2A	Mx	.021	5.75
13	MP2A	X	0	2.25
14	MP2A	Z	-31.404	2.25
15	MP2A	Mx	-.021	2.25
16	MP2A	X	0	5.75
17	MP2A	Z	-31.404	5.75
18	MP2A	Mx	-.021	5.75
19	MP3A	X	0	4
20	MP3A	Z	-13.064	4
21	MP3A	Mx	0	4
22	MP2A	X	0	4
23	MP2A	Z	-13.064	4
24	MP2A	Mx	0	4
25	OVP	X	0	1.25
26	OVP	Z	-25.377	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	0	6
29	MP2A	Z	-1.355	6
30	MP2A	Mx	-.000452	6
31	MP2A	X	0	7
32	MP2A	Z	-1.355	7
33	MP2A	Mx	-.000452	7
34	MP2A	X	0	6
35	MP2A	Z	-1.355	6
36	MP2A	Mx	.000452	6
37	MP2A	X	0	7
38	MP2A	Z	-1.355	7
39	MP2A	Mx	.000452	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	6.636	3
2	MP3A	Z	-11.494	3
3	MP3A	Mx	-.003	3
4	MP3A	X	6.636	5
5	MP3A	Z	-11.494	5
6	MP3A	Mx	-.003	5
7	MP2A	X	14.747	2.25
8	MP2A	Z	-25.542	2.25
9	MP2A	Mx	.005	2.25
10	MP2A	X	14.747	5.75
11	MP2A	Z	-25.542	5.75
12	MP2A	Mx	.005	5.75
13	MP2A	X	14.747	2.25
14	MP2A	Z	-25.542	2.25
15	MP2A	Mx	-.029	2.25
16	MP2A	X	14.747	5.75
17	MP2A	Z	-25.542	5.75
18	MP2A	Mx	-.029	5.75
19	MP3A	X	6.035	4
20	MP3A	Z	-10.453	4
21	MP3A	Mx	.003	4
22	MP2A	X	5.946	4
23	MP2A	Z	-10.298	4
24	MP2A	Mx	.003	4
25	OVP	X	13.42	1.25
26	OVP	Z	-23.244	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	.957	6
29	MP2A	Z	-1.658	6
30	MP2A	Mx	.000404	6
31	MP2A	X	.957	7
32	MP2A	Z	-1.658	7
33	MP2A	Mx	.000404	7
34	MP2A	X	.957	6
35	MP2A	Z	-1.658	6
36	MP2A	Mx	.002	6
37	MP2A	X	.957	7
38	MP2A	Z	-1.658	7
39	MP2A	Mx	.002	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.644	3
2	MP3A	Z	-4.413	3
3	MP3A	Mx	-.004	3
4	MP3A	X	7.644	5
5	MP3A	Z	-4.413	5
6	MP3A	Mx	-.004	5
7	MP2A	X	22.232	2.25
8	MP2A	Z	-12.836	2.25
9	MP2A	Mx	-.01	2.25
10	MP2A	X	22.232	5.75
11	MP2A	Z	-12.836	5.75
12	MP2A	Mx	-.01	5.75
13	MP2A	X	22.232	2.25
14	MP2A	Z	-12.836	2.25
15	MP2A	Mx	-.027	2.25
16	MP2A	X	22.232	5.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2A	Z	-12.836	5.75
18	MP2A	Mx	-.027	5.75
19	MP3A	X	8.732	4
20	MP3A	Z	-5.041	4
21	MP3A	Mx	.004	4
22	MP2A	X	8.267	4
23	MP2A	Z	-4.773	4
24	MP2A	Mx	.004	4
25	OVP	X	21.977	1.25
26	OVP	Z	-12.689	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	2.626	6
29	MP2A	Z	-1.516	6
30	MP2A	Mx	.002	6
31	MP2A	X	2.626	7
32	MP2A	Z	-1.516	7
33	MP2A	Mx	.002	7
34	MP2A	X	2.626	6
35	MP2A	Z	-1.516	6
36	MP2A	Mx	.003	6
37	MP2A	X	2.626	7
38	MP2A	Z	-1.516	7
39	MP2A	Mx	.003	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	6.604	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.003	3
4	MP3A	X	6.604	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.003	5
7	MP2A	X	23.76	2.25
8	MP2A	Z	0	2.25
9	MP2A	Mx	-.02	2.25
10	MP2A	X	23.76	5.75
11	MP2A	Z	0	5.75
12	MP2A	Mx	-.02	5.75
13	MP2A	X	23.76	2.25
14	MP2A	Z	0	2.25
15	MP2A	Mx	-.02	2.25
16	MP2A	X	23.76	5.75
17	MP2A	Z	0	5.75
18	MP2A	Mx	-.02	5.75
19	MP3A	X	9.089	4
20	MP3A	Z	0	4
21	MP3A	Mx	.005	4
22	MP2A	X	8.374	4
23	MP2A	Z	0	4
24	MP2A	Mx	.004	4
25	OVP	X	22.453	1.25
26	OVP	Z	0	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	3.592	6
29	MP2A	Z	0	6
30	MP2A	Mx	.004	6
31	MP2A	X	3.592	7
32	MP2A	Z	0	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2A	Mx	.004	7
34	MP2A	X	3.592	6
35	MP2A	Z	0	6
36	MP2A	Mx	.004	6
37	MP2A	X	3.592	7
38	MP2A	Z	0	7
39	MP2A	Mx	.004	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.644	3
2	MP3A	Z	4.413	3
3	MP3A	Mx	-.004	3
4	MP3A	X	7.644	5
5	MP3A	Z	4.413	5
6	MP3A	Mx	-.004	5
7	MP2A	X	22.232	2.25
8	MP2A	Z	12.836	2.25
9	MP2A	Mx	-.027	2.25
10	MP2A	X	22.232	5.75
11	MP2A	Z	12.836	5.75
12	MP2A	Mx	-.027	5.75
13	MP2A	X	22.232	2.25
14	MP2A	Z	12.836	2.25
15	MP2A	Mx	-.01	2.25
16	MP2A	X	22.232	5.75
17	MP2A	Z	12.836	5.75
18	MP2A	Mx	-.01	5.75
19	MP3A	X	8.732	4
20	MP3A	Z	5.041	4
21	MP3A	Mx	.004	4
22	MP2A	X	8.267	4
23	MP2A	Z	4.773	4
24	MP2A	Mx	.004	4
25	OVP	X	18.178	1.25
26	OVP	Z	10.495	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	2.626	6
29	MP2A	Z	1.516	6
30	MP2A	Mx	.003	6
31	MP2A	X	2.626	7
32	MP2A	Z	1.516	7
33	MP2A	Mx	.003	7
34	MP2A	X	2.626	6
35	MP2A	Z	1.516	6
36	MP2A	Mx	.002	6
37	MP2A	X	2.626	7
38	MP2A	Z	1.516	7
39	MP2A	Mx	.002	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	6.636	3
2	MP3A	Z	11.494	3
3	MP3A	Mx	-.003	3
4	MP3A	X	6.636	5
5	MP3A	Z	11.494	5
6	MP3A	Mx	-.003	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	14.747	2.25
8	MP2A	Z	25.542	2.25
9	MP2A	Mx	-.029	2.25
10	MP2A	X	14.747	5.75
11	MP2A	Z	25.542	5.75
12	MP2A	Mx	-.029	5.75
13	MP2A	X	14.747	2.25
14	MP2A	Z	25.542	2.25
15	MP2A	Mx	.005	2.25
16	MP2A	X	14.747	5.75
17	MP2A	Z	25.542	5.75
18	MP2A	Mx	.005	5.75
19	MP3A	X	6.035	4
20	MP3A	Z	10.453	4
21	MP3A	Mx	.003	4
22	MP2A	X	5.946	4
23	MP2A	Z	10.298	4
24	MP2A	Mx	.003	4
25	OVP	X	11.226	1.25
26	OVP	Z	19.445	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	.957	6
29	MP2A	Z	1.658	6
30	MP2A	Mx	.002	6
31	MP2A	X	.957	7
32	MP2A	Z	1.658	7
33	MP2A	Mx	.002	7
34	MP2A	X	.957	6
35	MP2A	Z	1.658	6
36	MP2A	Mx	.000404	6
37	MP2A	X	.957	7
38	MP2A	Z	1.658	7
39	MP2A	Mx	.000404	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	15.495	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	15.495	5
6	MP3A	Mx	0	5
7	MP2A	X	0	2.25
8	MP2A	Z	31.404	2.25
9	MP2A	Mx	-.021	2.25
10	MP2A	X	0	5.75
11	MP2A	Z	31.404	5.75
12	MP2A	Mx	-.021	5.75
13	MP2A	X	0	2.25
14	MP2A	Z	31.404	2.25
15	MP2A	Mx	.021	2.25
16	MP2A	X	0	5.75
17	MP2A	Z	31.404	5.75
18	MP2A	Mx	.021	5.75
19	MP3A	X	0	4
20	MP3A	Z	13.064	4
21	MP3A	Mx	0	4
22	MP2A	X	0	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2A	Z	13.064	4
24	MP2A	Mx	0	4
25	OVP	X	0	1.25
26	OVP	Z	25.377	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	0	6
29	MP2A	Z	1.355	6
30	MP2A	Mx	.000452	6
31	MP2A	X	0	7
32	MP2A	Z	1.355	7
33	MP2A	Mx	.000452	7
34	MP2A	X	0	6
35	MP2A	Z	1.355	6
36	MP2A	Mx	-.000452	6
37	MP2A	X	0	7
38	MP2A	Z	1.355	7
39	MP2A	Mx	-.000452	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-6.636	3
2	MP3A	Z	11.494	3
3	MP3A	Mx	.003	3
4	MP3A	X	-6.636	5
5	MP3A	Z	11.494	5
6	MP3A	Mx	.003	5
7	MP2A	X	-14.747	2.25
8	MP2A	Z	25.542	2.25
9	MP2A	Mx	-.005	2.25
10	MP2A	X	-14.747	5.75
11	MP2A	Z	25.542	5.75
12	MP2A	Mx	-.005	5.75
13	MP2A	X	-14.747	2.25
14	MP2A	Z	25.542	2.25
15	MP2A	Mx	.029	2.25
16	MP2A	X	-14.747	5.75
17	MP2A	Z	25.542	5.75
18	MP2A	Mx	.029	5.75
19	MP3A	X	-6.035	4
20	MP3A	Z	10.453	4
21	MP3A	Mx	-.003	4
22	MP2A	X	-5.946	4
23	MP2A	Z	10.298	4
24	MP2A	Mx	-.003	4
25	OVP	X	-13.42	1.25
26	OVP	Z	23.244	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-.957	6
29	MP2A	Z	1.658	6
30	MP2A	Mx	-.000404	6
31	MP2A	X	-.957	7
32	MP2A	Z	1.658	7
33	MP2A	Mx	-.000404	7
34	MP2A	X	-.957	6
35	MP2A	Z	1.658	6
36	MP2A	Mx	-.002	6
37	MP2A	X	-.957	7
38	MP2A	Z	1.658	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP2A	Mx	-.002	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.644	3
2	MP3A	Z	4.413	3
3	MP3A	Mx	.004	3
4	MP3A	X	-7.644	5
5	MP3A	Z	4.413	5
6	MP3A	Mx	.004	5
7	MP2A	X	-22.232	2.25
8	MP2A	Z	12.836	2.25
9	MP2A	Mx	.01	2.25
10	MP2A	X	-22.232	5.75
11	MP2A	Z	12.836	5.75
12	MP2A	Mx	.01	5.75
13	MP2A	X	-22.232	2.25
14	MP2A	Z	12.836	2.25
15	MP2A	Mx	.027	2.25
16	MP2A	X	-22.232	5.75
17	MP2A	Z	12.836	5.75
18	MP2A	Mx	.027	5.75
19	MP3A	X	-8.732	4
20	MP3A	Z	5.041	4
21	MP3A	Mx	-.004	4
22	MP2A	X	-8.267	4
23	MP2A	Z	4.773	4
24	MP2A	Mx	-.004	4
25	OVP	X	-21.977	1.25
26	OVP	Z	12.689	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-2.626	6
29	MP2A	Z	1.516	6
30	MP2A	Mx	-.002	6
31	MP2A	X	-2.626	7
32	MP2A	Z	1.516	7
33	MP2A	Mx	-.002	7
34	MP2A	X	-2.626	6
35	MP2A	Z	1.516	6
36	MP2A	Mx	-.003	6
37	MP2A	X	-2.626	7
38	MP2A	Z	1.516	7
39	MP2A	Mx	-.003	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-6.604	3
2	MP3A	Z	0	3
3	MP3A	Mx	.003	3
4	MP3A	X	-6.604	5
5	MP3A	Z	0	5
6	MP3A	Mx	.003	5
7	MP2A	X	-23.76	2.25
8	MP2A	Z	0	2.25
9	MP2A	Mx	.02	2.25
10	MP2A	X	-23.76	5.75
11	MP2A	Z	0	5.75
12	MP2A	Mx	.02	5.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP2A	X	-23.76	2.25
14	MP2A	Z	0	2.25
15	MP2A	Mx	.02	2.25
16	MP2A	X	-23.76	5.75
17	MP2A	Z	0	5.75
18	MP2A	Mx	.02	5.75
19	MP3A	X	-9.089	4
20	MP3A	Z	0	4
21	MP3A	Mx	-.005	4
22	MP2A	X	-8.374	4
23	MP2A	Z	0	4
24	MP2A	Mx	-.004	4
25	OVP	X	-22.453	1.25
26	OVP	Z	0	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-3.592	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.004	6
31	MP2A	X	-3.592	7
32	MP2A	Z	0	7
33	MP2A	Mx	-.004	7
34	MP2A	X	-3.592	6
35	MP2A	Z	0	6
36	MP2A	Mx	-.004	6
37	MP2A	X	-3.592	7
38	MP2A	Z	0	7
39	MP2A	Mx	-.004	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.644	3
2	MP3A	Z	-4.413	3
3	MP3A	Mx	.004	3
4	MP3A	X	-7.644	5
5	MP3A	Z	-4.413	5
6	MP3A	Mx	.004	5
7	MP2A	X	-22.232	2.25
8	MP2A	Z	-12.836	2.25
9	MP2A	Mx	.027	2.25
10	MP2A	X	-22.232	5.75
11	MP2A	Z	-12.836	5.75
12	MP2A	Mx	.027	5.75
13	MP2A	X	-22.232	2.25
14	MP2A	Z	-12.836	2.25
15	MP2A	Mx	.01	2.25
16	MP2A	X	-22.232	5.75
17	MP2A	Z	-12.836	5.75
18	MP2A	Mx	.01	5.75
19	MP3A	X	-8.732	4
20	MP3A	Z	-5.041	4
21	MP3A	Mx	-.004	4
22	MP2A	X	-8.267	4
23	MP2A	Z	-4.773	4
24	MP2A	Mx	-.004	4
25	OVP	X	-18.178	1.25
26	OVP	Z	-10.495	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-2.626	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2A	Z	-1.516	6
30	MP2A	Mx	-.003	6
31	MP2A	X	-2.626	7
32	MP2A	Z	-1.516	7
33	MP2A	Mx	-.003	7
34	MP2A	X	-2.626	6
35	MP2A	Z	-1.516	6
36	MP2A	Mx	-.002	6
37	MP2A	X	-2.626	7
38	MP2A	Z	-1.516	7
39	MP2A	Mx	-.002	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-6.636	3
2	MP3A	Z	-11.494	3
3	MP3A	Mx	.003	3
4	MP3A	X	-6.636	5
5	MP3A	Z	-11.494	5
6	MP3A	Mx	.003	5
7	MP2A	X	-14.747	2.25
8	MP2A	Z	-25.542	2.25
9	MP2A	Mx	.029	2.25
10	MP2A	X	-14.747	5.75
11	MP2A	Z	-25.542	5.75
12	MP2A	Mx	.029	5.75
13	MP2A	X	-14.747	2.25
14	MP2A	Z	-25.542	2.25
15	MP2A	Mx	-.005	2.25
16	MP2A	X	-14.747	5.75
17	MP2A	Z	-25.542	5.75
18	MP2A	Mx	-.005	5.75
19	MP3A	X	-6.035	4
20	MP3A	Z	-10.453	4
21	MP3A	Mx	-.003	4
22	MP2A	X	-5.946	4
23	MP2A	Z	-10.298	4
24	MP2A	Mx	-.003	4
25	OVP	X	-11.226	1.25
26	OVP	Z	-19.445	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-.957	6
29	MP2A	Z	-1.658	6
30	MP2A	Mx	-.002	6
31	MP2A	X	-.957	7
32	MP2A	Z	-1.658	7
33	MP2A	Mx	-.002	7
34	MP2A	X	-.957	6
35	MP2A	Z	-1.658	6
36	MP2A	Mx	-.000404	6
37	MP2A	X	-.957	7
38	MP2A	Z	-1.658	7
39	MP2A	Mx	-.000404	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	-4.116	3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	-4.116	5
6	MP3A	Mx	0	5
7	MP2A	X	0	2.25
8	MP2A	Z	-4.966	2.25
9	MP2A	Mx	.003	2.25
10	MP2A	X	0	5.75
11	MP2A	Z	-4.966	5.75
12	MP2A	Mx	.003	5.75
13	MP2A	X	0	2.25
14	MP2A	Z	-4.966	2.25
15	MP2A	Mx	-.003	2.25
16	MP2A	X	0	5.75
17	MP2A	Z	-4.966	5.75
18	MP2A	Mx	-.003	5.75
19	MP3A	X	0	4
20	MP3A	Z	-3.255	4
21	MP3A	Mx	0	4
22	MP2A	X	0	4
23	MP2A	Z	-3.255	4
24	MP2A	Mx	0	4
25	OVP	X	0	1.25
26	OVP	Z	-6.258	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	0	6
29	MP2A	Z	-1.008	6
30	MP2A	Mx	-.000336	6
31	MP2A	X	0	7
32	MP2A	Z	-1.008	7
33	MP2A	Mx	-.000336	7
34	MP2A	X	0	6
35	MP2A	Z	-1.008	6
36	MP2A	Mx	.000336	6
37	MP2A	X	0	7
38	MP2A	Z	-1.008	7
39	MP2A	Mx	.000336	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	1.721	3
2	MP3A	Z	-2.98	3
3	MP3A	Mx	-.00086	3
4	MP3A	X	1.721	5
5	MP3A	Z	-2.98	5
6	MP3A	Mx	-.00086	5
7	MP2A	X	2.327	2.25
8	MP2A	Z	-4.03	2.25
9	MP2A	Mx	.000748	2.25
10	MP2A	X	2.327	5.75
11	MP2A	Z	-4.03	5.75
12	MP2A	Mx	.000748	5.75
13	MP2A	X	2.327	2.25
14	MP2A	Z	-4.03	2.25
15	MP2A	Mx	-.005	2.25
16	MP2A	X	2.327	5.75
17	MP2A	Z	-4.03	5.75
18	MP2A	Mx	-.005	5.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP3A	X	1.494	4
20	MP3A	Z	-2.587	4
21	MP3A	Mx	.000747	4
22	MP2A	X	1.467	4
23	MP2A	Z	-2.541	4
24	MP2A	Mx	.000734	4
25	OVP	X	3.328	1.25
26	OVP	Z	-5.765	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	.504	6
29	MP2A	Z	-.874	6
30	MP2A	Mx	.000213	6
31	MP2A	X	.504	7
32	MP2A	Z	-.874	7
33	MP2A	Mx	.000213	7
34	MP2A	X	.504	6
35	MP2A	Z	-.874	6
36	MP2A	Mx	.000795	6
37	MP2A	X	.504	7
38	MP2A	Z	-.874	7
39	MP2A	Mx	.000795	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	1.812	3
2	MP3A	Z	-1.046	3
3	MP3A	Mx	-.000906	3
4	MP3A	X	1.812	5
5	MP3A	Z	-1.046	5
6	MP3A	Mx	-.000906	5
7	MP2A	X	3.489	2.25
8	MP2A	Z	-2.015	2.25
9	MP2A	Mx	-.002	2.25
10	MP2A	X	3.489	5.75
11	MP2A	Z	-2.015	5.75
12	MP2A	Mx	-.002	5.75
13	MP2A	X	3.489	2.25
14	MP2A	Z	-2.015	2.25
15	MP2A	Mx	-.004	2.25
16	MP2A	X	3.489	5.75
17	MP2A	Z	-2.015	5.75
18	MP2A	Mx	-.004	5.75
19	MP3A	X	2.123	4
20	MP3A	Z	-1.226	4
21	MP3A	Mx	.001	4
22	MP2A	X	1.987	4
23	MP2A	Z	-1.147	4
24	MP2A	Mx	.000994	4
25	OVP	X	5.419	1.25
26	OVP	Z	-3.129	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	.875	6
29	MP2A	Z	-.505	6
30	MP2A	Mx	.000707	6
31	MP2A	X	.875	7
32	MP2A	Z	-.505	7
33	MP2A	Mx	.000707	7
34	MP2A	X	.875	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2A	Z	-.505	6
36	MP2A	Mx	.001	6
37	MP2A	X	.875	7
38	MP2A	Z	-.505	7
39	MP2A	Mx	.001	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	1.417	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.000708	3
4	MP3A	X	1.417	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.000708	5
7	MP2A	X	3.717	2.25
8	MP2A	Z	0	2.25
9	MP2A	Mx	-.003	2.25
10	MP2A	X	3.717	5.75
11	MP2A	Z	0	5.75
12	MP2A	Mx	-.003	5.75
13	MP2A	X	3.717	2.25
14	MP2A	Z	0	2.25
15	MP2A	Mx	-.003	2.25
16	MP2A	X	3.717	5.75
17	MP2A	Z	0	5.75
18	MP2A	Mx	-.003	5.75
19	MP3A	X	2.184	4
20	MP3A	Z	0	4
21	MP3A	Mx	.001	4
22	MP2A	X	1.974	4
23	MP2A	Z	0	4
24	MP2A	Mx	.000987	4
25	OVP	X	5.46	1.25
26	OVP	Z	0	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	1.011	6
29	MP2A	Z	0	6
30	MP2A	Mx	.001	6
31	MP2A	X	1.011	7
32	MP2A	Z	0	7
33	MP2A	Mx	.001	7
34	MP2A	X	1.011	6
35	MP2A	Z	0	6
36	MP2A	Mx	.001	6
37	MP2A	X	1.011	7
38	MP2A	Z	0	7
39	MP2A	Mx	.001	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	1.812	3
2	MP3A	Z	1.046	3
3	MP3A	Mx	-.000906	3
4	MP3A	X	1.812	5
5	MP3A	Z	1.046	5
6	MP3A	Mx	-.000906	5
7	MP2A	X	3.489	2.25
8	MP2A	Z	2.015	2.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP2A	Mx	-.004	2.25
10	MP2A	X	3.489	5.75
11	MP2A	Z	2.015	5.75
12	MP2A	Mx	-.004	5.75
13	MP2A	X	3.489	2.25
14	MP2A	Z	2.015	2.25
15	MP2A	Mx	-.002	2.25
16	MP2A	X	3.489	5.75
17	MP2A	Z	2.015	5.75
18	MP2A	Mx	-.002	5.75
19	MP3A	X	2.123	4
20	MP3A	Z	1.226	4
21	MP3A	Mx	.001	4
22	MP2A	X	1.987	4
23	MP2A	Z	1.147	4
24	MP2A	Mx	.000994	4
25	OVP	X	4.383	1.25
26	OVP	Z	2.53	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	.875	6
29	MP2A	Z	.505	6
30	MP2A	Mx	.001	6
31	MP2A	X	.875	7
32	MP2A	Z	.505	7
33	MP2A	Mx	.001	7
34	MP2A	X	.875	6
35	MP2A	Z	.505	6
36	MP2A	Mx	.000707	6
37	MP2A	X	.875	7
38	MP2A	Z	.505	7
39	MP2A	Mx	.000707	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	1.721	3
2	MP3A	Z	2.98	3
3	MP3A	Mx	-.00086	3
4	MP3A	X	1.721	5
5	MP3A	Z	2.98	5
6	MP3A	Mx	-.00086	5
7	MP2A	X	2.327	2.25
8	MP2A	Z	4.03	2.25
9	MP2A	Mx	-.005	2.25
10	MP2A	X	2.327	5.75
11	MP2A	Z	4.03	5.75
12	MP2A	Mx	-.005	5.75
13	MP2A	X	2.327	2.25
14	MP2A	Z	4.03	2.25
15	MP2A	Mx	.000748	2.25
16	MP2A	X	2.327	5.75
17	MP2A	Z	4.03	5.75
18	MP2A	Mx	.000748	5.75
19	MP3A	X	1.494	4
20	MP3A	Z	2.587	4
21	MP3A	Mx	.000747	4
22	MP2A	X	1.467	4
23	MP2A	Z	2.541	4
24	MP2A	Mx	.000734	4

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	OVP	X	2.73	1.25
26	OVP	Z	4.728	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	.504	6
29	MP2A	Z	.874	6
30	MP2A	Mx	.000795	6
31	MP2A	X	.504	7
32	MP2A	Z	.874	7
33	MP2A	Mx	.000795	7
34	MP2A	X	.504	6
35	MP2A	Z	.874	6
36	MP2A	Mx	.000213	6
37	MP2A	X	.504	7
38	MP2A	Z	.874	7
39	MP2A	Mx	.000213	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	4.116	3
3	MP3A	Mx	0	3
4	MP3A	X	0	5
5	MP3A	Z	4.116	5
6	MP3A	Mx	0	5
7	MP2A	X	0	2.25
8	MP2A	Z	4.966	2.25
9	MP2A	Mx	-.003	2.25
10	MP2A	X	0	5.75
11	MP2A	Z	4.966	5.75
12	MP2A	Mx	-.003	5.75
13	MP2A	X	0	2.25
14	MP2A	Z	4.966	2.25
15	MP2A	Mx	.003	2.25
16	MP2A	X	0	5.75
17	MP2A	Z	4.966	5.75
18	MP2A	Mx	.003	5.75
19	MP3A	X	0	4
20	MP3A	Z	3.255	4
21	MP3A	Mx	0	4
22	MP2A	X	0	4
23	MP2A	Z	3.255	4
24	MP2A	Mx	0	4
25	OVP	X	0	1.25
26	OVP	Z	6.258	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	0	6
29	MP2A	Z	1.008	6
30	MP2A	Mx	.000336	6
31	MP2A	X	0	7
32	MP2A	Z	1.008	7
33	MP2A	Mx	.000336	7
34	MP2A	X	0	6
35	MP2A	Z	1.008	6
36	MP2A	Mx	-.000336	6
37	MP2A	X	0	7
38	MP2A	Z	1.008	7
39	MP2A	Mx	-.000336	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-1.721	3
2	MP3A	Z	2.98	3
3	MP3A	Mx	.00086	3
4	MP3A	X	-1.721	5
5	MP3A	Z	2.98	5
6	MP3A	Mx	.00086	5
7	MP2A	X	-2.327	2.25
8	MP2A	Z	4.03	2.25
9	MP2A	Mx	-.000748	2.25
10	MP2A	X	-2.327	5.75
11	MP2A	Z	4.03	5.75
12	MP2A	Mx	-.000748	5.75
13	MP2A	X	-2.327	2.25
14	MP2A	Z	4.03	2.25
15	MP2A	Mx	.005	2.25
16	MP2A	X	-2.327	5.75
17	MP2A	Z	4.03	5.75
18	MP2A	Mx	.005	5.75
19	MP3A	X	-1.494	4
20	MP3A	Z	2.587	4
21	MP3A	Mx	-.000747	4
22	MP2A	X	-1.467	4
23	MP2A	Z	2.541	4
24	MP2A	Mx	-.000734	4
25	OVP	X	-3.328	1.25
26	OVP	Z	5.765	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-.504	6
29	MP2A	Z	.874	6
30	MP2A	Mx	-.000213	6
31	MP2A	X	-.504	7
32	MP2A	Z	.874	7
33	MP2A	Mx	-.000213	7
34	MP2A	X	-.504	6
35	MP2A	Z	.874	6
36	MP2A	Mx	-.000795	6
37	MP2A	X	-.504	7
38	MP2A	Z	.874	7
39	MP2A	Mx	-.000795	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-1.812	3
2	MP3A	Z	1.046	3
3	MP3A	Mx	.000906	3
4	MP3A	X	-1.812	5
5	MP3A	Z	1.046	5
6	MP3A	Mx	.000906	5
7	MP2A	X	-3.489	2.25
8	MP2A	Z	2.015	2.25
9	MP2A	Mx	.002	2.25
10	MP2A	X	-3.489	5.75
11	MP2A	Z	2.015	5.75
12	MP2A	Mx	.002	5.75
13	MP2A	X	-3.489	2.25
14	MP2A	Z	2.015	2.25
15	MP2A	Mx	.004	2.25
16	MP2A	X	-3.489	5.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2A	Z	2.015	5.75
18	MP2A	Mx	.004	5.75
19	MP3A	X	-2.123	4
20	MP3A	Z	1.226	4
21	MP3A	Mx	-.001	4
22	MP2A	X	-1.987	4
23	MP2A	Z	1.147	4
24	MP2A	Mx	-.000994	4
25	OVP	X	-5.419	1.25
26	OVP	Z	3.129	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-.875	6
29	MP2A	Z	.505	6
30	MP2A	Mx	-.000707	6
31	MP2A	X	-.875	7
32	MP2A	Z	.505	7
33	MP2A	Mx	-.000707	7
34	MP2A	X	-.875	6
35	MP2A	Z	.505	6
36	MP2A	Mx	-.001	6
37	MP2A	X	-.875	7
38	MP2A	Z	.505	7
39	MP2A	Mx	-.001	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-1.417	3
2	MP3A	Z	0	3
3	MP3A	Mx	.000708	3
4	MP3A	X	-1.417	5
5	MP3A	Z	0	5
6	MP3A	Mx	.000708	5
7	MP2A	X	-3.717	2.25
8	MP2A	Z	0	2.25
9	MP2A	Mx	.003	2.25
10	MP2A	X	-3.717	5.75
11	MP2A	Z	0	5.75
12	MP2A	Mx	.003	5.75
13	MP2A	X	-3.717	2.25
14	MP2A	Z	0	2.25
15	MP2A	Mx	.003	2.25
16	MP2A	X	-3.717	5.75
17	MP2A	Z	0	5.75
18	MP2A	Mx	.003	5.75
19	MP3A	X	-2.184	4
20	MP3A	Z	0	4
21	MP3A	Mx	-.001	4
22	MP2A	X	-1.974	4
23	MP2A	Z	0	4
24	MP2A	Mx	-.000987	4
25	OVP	X	-5.46	1.25
26	OVP	Z	0	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-1.011	6
29	MP2A	Z	0	6
30	MP2A	Mx	-.001	6
31	MP2A	X	-1.011	7
32	MP2A	Z	0	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2A	Mx	-.001	7
34	MP2A	X	-1.011	6
35	MP2A	Z	0	6
36	MP2A	Mx	-.001	6
37	MP2A	X	-1.011	7
38	MP2A	Z	0	7
39	MP2A	Mx	-.001	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-1.812	3
2	MP3A	Z	-1.046	3
3	MP3A	Mx	.000906	3
4	MP3A	X	-1.812	5
5	MP3A	Z	-1.046	5
6	MP3A	Mx	.000906	5
7	MP2A	X	-3.489	2.25
8	MP2A	Z	-2.015	2.25
9	MP2A	Mx	.004	2.25
10	MP2A	X	-3.489	5.75
11	MP2A	Z	-2.015	5.75
12	MP2A	Mx	.004	5.75
13	MP2A	X	-3.489	2.25
14	MP2A	Z	-2.015	2.25
15	MP2A	Mx	.002	2.25
16	MP2A	X	-3.489	5.75
17	MP2A	Z	-2.015	5.75
18	MP2A	Mx	.002	5.75
19	MP3A	X	-2.123	4
20	MP3A	Z	-1.226	4
21	MP3A	Mx	-.001	4
22	MP2A	X	-1.987	4
23	MP2A	Z	-1.147	4
24	MP2A	Mx	-.000994	4
25	OVP	X	-4.383	1.25
26	OVP	Z	-2.53	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-.875	6
29	MP2A	Z	-.505	6
30	MP2A	Mx	-.001	6
31	MP2A	X	-.875	7
32	MP2A	Z	-.505	7
33	MP2A	Mx	-.001	7
34	MP2A	X	-.875	6
35	MP2A	Z	-.505	6
36	MP2A	Mx	-.000707	6
37	MP2A	X	-.875	7
38	MP2A	Z	-.505	7
39	MP2A	Mx	-.000707	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-1.721	3
2	MP3A	Z	-2.98	3
3	MP3A	Mx	.00086	3
4	MP3A	X	-1.721	5
5	MP3A	Z	-2.98	5
6	MP3A	Mx	.00086	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2A	X	-2.327	2.25
8	MP2A	Z	-4.03	2.25
9	MP2A	Mx	.005	2.25
10	MP2A	X	-2.327	5.75
11	MP2A	Z	-4.03	5.75
12	MP2A	Mx	.005	5.75
13	MP2A	X	-2.327	2.25
14	MP2A	Z	-4.03	2.25
15	MP2A	Mx	-.000748	2.25
16	MP2A	X	-2.327	5.75
17	MP2A	Z	-4.03	5.75
18	MP2A	Mx	-.000748	5.75
19	MP3A	X	-1.494	4
20	MP3A	Z	-2.587	4
21	MP3A	Mx	-.000747	4
22	MP2A	X	-1.467	4
23	MP2A	Z	-2.541	4
24	MP2A	Mx	-.000734	4
25	OVP	X	-2.73	1.25
26	OVP	Z	-4.728	1.25
27	OVP	Mx	0	1.25
28	MP2A	X	-.504	6
29	MP2A	Z	-.874	6
30	MP2A	Mx	-.000795	6
31	MP2A	X	-.504	7
32	MP2A	Z	-.874	7
33	MP2A	Mx	-.000795	7
34	MP2A	X	-.504	6
35	MP2A	Z	-.874	6
36	MP2A	Mx	-.000213	6
37	MP2A	X	-.504	7
38	MP2A	Z	-.874	7
39	MP2A	Mx	-.000213	7

Member Point Loads (BLC 77 : Lm1)

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

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	LIVE2	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

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

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	FACE	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-2.035	3
2	MP3A	My	-.001	3
3	MP3A	Mz	0	3
4	MP3A	Y	-2.035	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP3A	My	-.001	5
6	MP3A	Mz	0	5
7	MP2A	Y	-1.822	2.25
8	MP2A	My	-.002	2.25
9	MP2A	Mz	-.001	2.25
10	MP2A	Y	-1.822	5.75
11	MP2A	My	-.002	5.75
12	MP2A	Mz	-.001	5.75
13	MP2A	Y	-1.822	2.25
14	MP2A	My	-.002	2.25
15	MP2A	Mz	.001	2.25
16	MP2A	Y	-1.822	5.75
17	MP2A	My	-.002	5.75
18	MP2A	Mz	.001	5.75
19	MP3A	Y	-3.49	4
20	MP3A	My	.002	4
21	MP3A	Mz	0	4
22	MP2A	Y	-3.284	4
23	MP2A	My	.002	4
24	MP2A	Mz	0	4
25	OVP	Y	-1.495	1.25
26	OVP	My	0	1.25
27	OVP	Mz	0	1.25
28	MP2A	Y	-.411	6
29	MP2A	My	.000411	6
30	MP2A	Mz	.000137	6
31	MP2A	Y	-.411	7
32	MP2A	My	.000411	7
33	MP2A	Mz	.000137	7
34	MP2A	Y	-.411	6
35	MP2A	My	.000411	6
36	MP2A	Mz	-.000137	6
37	MP2A	Y	-.411	7
38	MP2A	My	.000411	7
39	MP2A	Mz	-.000137	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Z	-5.087	3
2	MP3A	Mx	0	3
3	MP3A	Z	-5.087	5
4	MP3A	Mx	0	5
5	MP2A	Z	-4.555	2.25
6	MP2A	Mx	.003	2.25
7	MP2A	Z	-4.555	5.75
8	MP2A	Mx	.003	5.75
9	MP2A	Z	-4.555	2.25
10	MP2A	Mx	-.003	2.25
11	MP2A	Z	-4.555	5.75
12	MP2A	Mx	-.003	5.75
13	MP3A	Z	-8.725	4
14	MP3A	Mx	0	4
15	MP2A	Z	-8.211	4
16	MP2A	Mx	0	4
17	OVP	Z	-3.738	1.25
18	OVP	Mx	0	1.25
19	MP2A	Z	-1.028	6
20	MP2A	Mx	-.000343	6

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2A	Z	-1.028	7
22	MP2A	Mx	-.000343	7
23	MP2A	Z	-1.028	6
24	MP2A	Mx	.000343	6
25	MP2A	Z	-1.028	7
26	MP2A	Mx	.000343	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	5.087	3
2	MP3A	Mx	-.003	3
3	MP3A	X	5.087	5
4	MP3A	Mx	-.003	5
5	MP2A	X	4.555	2.25
6	MP2A	Mx	-.004	2.25
7	MP2A	X	4.555	5.75
8	MP2A	Mx	-.004	5.75
9	MP2A	X	4.555	2.25
10	MP2A	Mx	-.004	2.25
11	MP2A	X	4.555	5.75
12	MP2A	Mx	-.004	5.75
13	MP3A	X	8.725	4
14	MP3A	Mx	.004	4
15	MP2A	X	8.211	4
16	MP2A	Mx	.004	4
17	OVP	X	3.738	1.25
18	OVP	Mx	0	1.25
19	MP2A	X	1.028	6
20	MP2A	Mx	.001	6
21	MP2A	X	1.028	7
22	MP2A	Mx	.001	7
23	MP2A	X	1.028	6
24	MP2A	Mx	.001	6
25	MP2A	X	1.028	7
26	MP2A	Mx	.001	7

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	Y	-5.721	-5.721	0	%100
2	M2	Y	-5.721	-5.721	0	%100
3	M13	Y	-6.685	-6.685	0	%100
4	M14	Y	-6.685	-6.685	0	%100
5	M15	Y	-6.685	-6.685	0	%100
6	M16	Y	-6.685	-6.685	0	%100
7	OVP1	Y	-5.012	-5.012	0	%100
8	M18	Y	-5.012	-5.012	0	%100
9	M19	Y	-5.012	-5.012	0	%100
10	OVP	Y	-5.012	-5.012	0	%100
11	M21	Y	-6.685	-6.685	0	%100
12	M22	Y	-6.685	-6.685	0	%100
13	M23	Y	-6.685	-6.685	0	%100
14	M24	Y	-6.685	-6.685	0	%100
15	M25	Y	-2.708	-2.708	0	%100
16	M26	Y	-2.708	-2.708	0	%100
17	M27	Y	-2.708	-2.708	0	%100
18	M28	Y	-2.708	-2.708	0	%100
19	MP4A	Y	-5.012	-5.012	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
20	MP3A	Y	-5.012	-5.012	0	%100
21	MP2A	Y	-5.721	-5.721	0	%100
22	MP1A	Y	-5.012	-5.012	0	%100
23	M44	Y	-2.531	-2.531	0	%100
24	M45	Y	-2.531	-2.531	0	%100
25	M46	Y	-2.531	-2.531	0	%100
26	M47	Y	-2.531	-2.531	0	%100
27	M44B	Y	-5.012	-5.012	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-8.871	-8.871	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-8.871	-8.871	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	0	0	0	%100
14	OVP1	Z	-3.503	-3.503	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-3.503	-3.503	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-3.503	-3.503	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-3.503	-3.503	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.929	-1.929	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.929	-1.929	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.929	-1.929	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.929	-1.929	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.997	-1.997	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.997	-1.997	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.997	-1.997	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.997	-1.997	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-7.328	-7.328	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-7.328	-7.328	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-8.871	-8.871	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-7.328	-7.328	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-1.929	-1.929	0	%100
47	M45	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
48	M45	Z	-1.929	-1.929	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-1.929	-1.929	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.929	-1.929	0	%100
53	M44B	X	0	0	0	%100
54	M44B	Z	-.051	-.051	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	3.327	3.327	0	%100
2	FACE	Z	-5.762	-5.762	0	%100
3	M2	X	3.327	3.327	0	%100
4	M2	Z	-5.762	-5.762	0	%100
5	M13	X	.241	.241	0	%100
6	M13	Z	-.418	-.418	0	%100
7	M14	X	.241	.241	0	%100
8	M14	Z	-.418	-.418	0	%100
9	M15	X	.241	.241	0	%100
10	M15	Z	-.418	-.418	0	%100
11	M16	X	.241	.241	0	%100
12	M16	Z	-.418	-.418	0	%100
13	OVP1	X	.394	.394	0	%100
14	OVP1	Z	-.683	-.683	0	%100
15	M18	X	.394	.394	0	%100
16	M18	Z	-.683	-.683	0	%100
17	M19	X	2.77	2.77	0	%100
18	M19	Z	-4.797	-4.797	0	%100
19	OVP	X	2.77	2.77	0	%100
20	OVP	Z	-4.797	-4.797	0	%100
21	M21	X	.723	.723	0	%100
22	M21	Z	-1.253	-1.253	0	%100
23	M22	X	.723	.723	0	%100
24	M22	Z	-1.253	-1.253	0	%100
25	M23	X	.723	.723	0	%100
26	M23	Z	-1.253	-1.253	0	%100
27	M24	X	.723	.723	0	%100
28	M24	Z	-1.253	-1.253	0	%100
29	M25	X	.799	.799	0	%100
30	M25	Z	-1.383	-1.383	0	%100
31	M26	X	.799	.799	0	%100
32	M26	Z	-1.383	-1.383	0	%100
33	M27	X	1.149	1.149	0	%100
34	M27	Z	-1.99	-1.99	0	%100
35	M28	X	1.149	1.149	0	%100
36	M28	Z	-1.99	-1.99	0	%100
37	MP4A	X	3.664	3.664	0	%100
38	MP4A	Z	-6.347	-6.347	0	%100
39	MP3A	X	3.664	3.664	0	%100
40	MP3A	Z	-6.347	-6.347	0	%100
41	MP2A	X	4.436	4.436	0	%100
42	MP2A	Z	-7.683	-7.683	0	%100
43	MP1A	X	3.664	3.664	0	%100
44	MP1A	Z	-6.347	-6.347	0	%100
45	M44	X	.964	.964	0	%100
46	M44	Z	-1.67	-1.67	0	%100
47	M45	X	.964	.964	0	%100
48	M45	Z	-1.67	-1.67	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
49	M46	X	.964	.964	0	%100
50	M46	Z	-1.67	-1.67	0	%100
51	M47	X	.964	.964	0	%100
52	M47	Z	-1.67	-1.67	0	%100
53	M44B	X	.664	.664	0	%100
54	M44B	Z	-1.15	-1.15	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	1.921	1.921	0	%100
2	FACE	Z	-1.109	-1.109	0	%100
3	M2	X	1.921	1.921	0	%100
4	M2	Z	-1.109	-1.109	0	%100
5	M13	X	1.253	1.253	0	%100
6	M13	Z	-.723	-.723	0	%100
7	M14	X	1.253	1.253	0	%100
8	M14	Z	-.723	-.723	0	%100
9	M15	X	1.253	1.253	0	%100
10	M15	Z	-.723	-.723	0	%100
11	M16	X	1.253	1.253	0	%100
12	M16	Z	-.723	-.723	0	%100
13	OVP1	X	.096	.096	0	%100
14	OVP1	Z	-.056	-.056	0	%100
15	M18	X	.096	.096	0	%100
16	M18	Z	-.056	-.056	0	%100
17	M19	X	4.21	4.21	0	%100
18	M19	Z	-2.431	-2.431	0	%100
19	OVP	X	4.21	4.21	0	%100
20	OVP	Z	-2.431	-2.431	0	%100
21	M21	X	.418	.418	0	%100
22	M21	Z	-.241	-.241	0	%100
23	M22	X	.418	.418	0	%100
24	M22	Z	-.241	-.241	0	%100
25	M23	X	.418	.418	0	%100
26	M23	Z	-.241	-.241	0	%100
27	M24	X	.418	.418	0	%100
28	M24	Z	-.241	-.241	0	%100
29	M25	X	1.297	1.297	0	%100
30	M25	Z	-.749	-.749	0	%100
31	M26	X	1.297	1.297	0	%100
32	M26	Z	-.749	-.749	0	%100
33	M27	X	1.903	1.903	0	%100
34	M27	Z	-1.099	-1.099	0	%100
35	M28	X	1.903	1.903	0	%100
36	M28	Z	-1.099	-1.099	0	%100
37	MP4A	X	6.347	6.347	0	%100
38	MP4A	Z	-3.664	-3.664	0	%100
39	MP3A	X	6.347	6.347	0	%100
40	MP3A	Z	-3.664	-3.664	0	%100
41	MP2A	X	7.683	7.683	0	%100
42	MP2A	Z	-4.436	-4.436	0	%100
43	MP1A	X	6.347	6.347	0	%100
44	MP1A	Z	-3.664	-3.664	0	%100
45	M44	X	1.67	1.67	0	%100
46	M44	Z	-.964	-.964	0	%100
47	M45	X	1.67	1.67	0	%100
48	M45	Z	-.964	-.964	0	%100
49	M46	X	1.67	1.67	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
50	M46	Z	-.964	-.964	0	%100
51	M47	X	1.67	1.67	0	%100
52	M47	Z	-.964	-.964	0	%100
53	M44B	X	4.279	4.279	0	%100
54	M44B	Z	-2.471	-2.471	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.929	1.929	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.929	1.929	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	1.929	1.929	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.929	1.929	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	2.148	2.148	0	%100
14	OVP1	Z	0	0	0	%100
15	M18	X	2.148	2.148	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.148	2.148	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	2.148	2.148	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.798	1.798	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.798	1.798	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.798	1.798	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.798	1.798	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	7.328	7.328	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	7.328	7.328	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	8.871	8.871	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	7.328	7.328	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.929	1.929	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.929	1.929	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.929	1.929	0	%100
50	M46	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
51	M47	X	1.929	1.929	0	%100
52	M47	Z	0	0	0	%100
53	M44B	X	7.277	7.277	0	%100
54	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	1.921	1.921	0	%100
2	FACE	Z	1.109	1.109	0	%100
3	M2	X	1.921	1.921	0	%100
4	M2	Z	1.109	1.109	0	%100
5	M13	X	1.253	1.253	0	%100
6	M13	Z	.723	.723	0	%100
7	M14	X	1.253	1.253	0	%100
8	M14	Z	.723	.723	0	%100
9	M15	X	1.253	1.253	0	%100
10	M15	Z	.723	.723	0	%100
11	M16	X	1.253	1.253	0	%100
12	M16	Z	.723	.723	0	%100
13	OVP1	X	4.21	4.21	0	%100
14	OVP1	Z	2.431	2.431	0	%100
15	M18	X	4.21	4.21	0	%100
16	M18	Z	2.431	2.431	0	%100
17	M19	X	.096	.096	0	%100
18	M19	Z	.056	.056	0	%100
19	OVP	X	.096	.096	0	%100
20	OVP	Z	.056	.056	0	%100
21	M21	X	.418	.418	0	%100
22	M21	Z	.241	.241	0	%100
23	M22	X	.418	.418	0	%100
24	M22	Z	.241	.241	0	%100
25	M23	X	.418	.418	0	%100
26	M23	Z	.241	.241	0	%100
27	M24	X	.418	.418	0	%100
28	M24	Z	.241	.241	0	%100
29	M25	X	1.903	1.903	0	%100
30	M25	Z	1.099	1.099	0	%100
31	M26	X	1.903	1.903	0	%100
32	M26	Z	1.099	1.099	0	%100
33	M27	X	1.297	1.297	0	%100
34	M27	Z	.749	.749	0	%100
35	M28	X	1.297	1.297	0	%100
36	M28	Z	.749	.749	0	%100
37	MP4A	X	6.347	6.347	0	%100
38	MP4A	Z	3.664	3.664	0	%100
39	MP3A	X	6.347	6.347	0	%100
40	MP3A	Z	3.664	3.664	0	%100
41	MP2A	X	7.683	7.683	0	%100
42	MP2A	Z	4.436	4.436	0	%100
43	MP1A	X	6.347	6.347	0	%100
44	MP1A	Z	3.664	3.664	0	%100
45	M44	X	1.67	1.67	0	%100
46	M44	Z	.964	.964	0	%100
47	M45	X	1.67	1.67	0	%100
48	M45	Z	.964	.964	0	%100
49	M46	X	1.67	1.67	0	%100
50	M46	Z	.964	.964	0	%100
51	M47	X	1.67	1.67	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
52	M47	Z	.964	.964	0	%100
53	M44B	X	5.196	5.196	0	%100
54	M44B	Z	3	3	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	3.327	3.327	0	%100
2	FACE	Z	5.762	5.762	0	%100
3	M2	X	3.327	3.327	0	%100
4	M2	Z	5.762	5.762	0	%100
5	M13	X	.241	.241	0	%100
6	M13	Z	.418	.418	0	%100
7	M14	X	.241	.241	0	%100
8	M14	Z	.418	.418	0	%100
9	M15	X	.241	.241	0	%100
10	M15	Z	.418	.418	0	%100
11	M16	X	.241	.241	0	%100
12	M16	Z	.418	.418	0	%100
13	OVP1	X	2.77	2.77	0	%100
14	OVP1	Z	4.797	4.797	0	%100
15	M18	X	2.77	2.77	0	%100
16	M18	Z	4.797	4.797	0	%100
17	M19	X	.394	.394	0	%100
18	M19	Z	.683	.683	0	%100
19	OVP	X	.394	.394	0	%100
20	OVP	Z	.683	.683	0	%100
21	M21	X	.723	.723	0	%100
22	M21	Z	1.253	1.253	0	%100
23	M22	X	.723	.723	0	%100
24	M22	Z	1.253	1.253	0	%100
25	M23	X	.723	.723	0	%100
26	M23	Z	1.253	1.253	0	%100
27	M24	X	.723	.723	0	%100
28	M24	Z	1.253	1.253	0	%100
29	M25	X	1.149	1.149	0	%100
30	M25	Z	1.99	1.99	0	%100
31	M26	X	1.149	1.149	0	%100
32	M26	Z	1.99	1.99	0	%100
33	M27	X	.799	.799	0	%100
34	M27	Z	1.383	1.383	0	%100
35	M28	X	.799	.799	0	%100
36	M28	Z	1.383	1.383	0	%100
37	MP4A	X	3.664	3.664	0	%100
38	MP4A	Z	6.347	6.347	0	%100
39	MP3A	X	3.664	3.664	0	%100
40	MP3A	Z	6.347	6.347	0	%100
41	MP2A	X	4.436	4.436	0	%100
42	MP2A	Z	7.683	7.683	0	%100
43	MP1A	X	3.664	3.664	0	%100
44	MP1A	Z	6.347	6.347	0	%100
45	M44	X	.964	.964	0	%100
46	M44	Z	1.67	1.67	0	%100
47	M45	X	.964	.964	0	%100
48	M45	Z	1.67	1.67	0	%100
49	M46	X	.964	.964	0	%100
50	M46	Z	1.67	1.67	0	%100
51	M47	X	.964	.964	0	%100
52	M47	Z	1.67	1.67	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
53	M44B	X	1.194	1.194	0	%100
54	M44B	Z	2.067	2.067	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	8.871	8.871	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	8.871	8.871	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	0	0	0	%100
14	OVP1	Z	3.503	3.503	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	3.503	3.503	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	3.503	3.503	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	3.503	3.503	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.929	1.929	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.929	1.929	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.929	1.929	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.929	1.929	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.997	1.997	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.997	1.997	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.997	1.997	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.997	1.997	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	7.328	7.328	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	7.328	7.328	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	8.871	8.871	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	7.328	7.328	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	1.929	1.929	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	1.929	1.929	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	1.929	1.929	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.929	1.929	0	%100
53	M44B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
54	M44B	Z	.051	.051	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-3.327	-3.327	0	%100
2	FACE	Z	5.762	5.762	0	%100
3	M2	X	-3.327	-3.327	0	%100
4	M2	Z	5.762	5.762	0	%100
5	M13	X	-.241	-.241	0	%100
6	M13	Z	.418	.418	0	%100
7	M14	X	-.241	-.241	0	%100
8	M14	Z	.418	.418	0	%100
9	M15	X	-.241	-.241	0	%100
10	M15	Z	.418	.418	0	%100
11	M16	X	-.241	-.241	0	%100
12	M16	Z	.418	.418	0	%100
13	OVP1	X	-.394	-.394	0	%100
14	OVP1	Z	.683	.683	0	%100
15	M18	X	-.394	-.394	0	%100
16	M18	Z	.683	.683	0	%100
17	M19	X	-2.77	-2.77	0	%100
18	M19	Z	4.797	4.797	0	%100
19	OVP	X	-2.77	-2.77	0	%100
20	OVP	Z	4.797	4.797	0	%100
21	M21	X	-.723	-.723	0	%100
22	M21	Z	1.253	1.253	0	%100
23	M22	X	-.723	-.723	0	%100
24	M22	Z	1.253	1.253	0	%100
25	M23	X	-.723	-.723	0	%100
26	M23	Z	1.253	1.253	0	%100
27	M24	X	-.723	-.723	0	%100
28	M24	Z	1.253	1.253	0	%100
29	M25	X	-.799	-.799	0	%100
30	M25	Z	1.383	1.383	0	%100
31	M26	X	-.799	-.799	0	%100
32	M26	Z	1.383	1.383	0	%100
33	M27	X	-1.149	-1.149	0	%100
34	M27	Z	1.99	1.99	0	%100
35	M28	X	-1.149	-1.149	0	%100
36	M28	Z	1.99	1.99	0	%100
37	MP4A	X	-3.664	-3.664	0	%100
38	MP4A	Z	6.347	6.347	0	%100
39	MP3A	X	-3.664	-3.664	0	%100
40	MP3A	Z	6.347	6.347	0	%100
41	MP2A	X	-4.436	-4.436	0	%100
42	MP2A	Z	7.683	7.683	0	%100
43	MP1A	X	-3.664	-3.664	0	%100
44	MP1A	Z	6.347	6.347	0	%100
45	M44	X	-.964	-.964	0	%100
46	M44	Z	1.67	1.67	0	%100
47	M45	X	-.964	-.964	0	%100
48	M45	Z	1.67	1.67	0	%100
49	M46	X	-.964	-.964	0	%100
50	M46	Z	1.67	1.67	0	%100
51	M47	X	-.964	-.964	0	%100
52	M47	Z	1.67	1.67	0	%100
53	M44B	X	-.664	-.664	0	%100
54	M44B	Z	1.15	1.15	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-1.921	-1.921	0	%100
2	FACE	Z	1.109	1.109	0	%100
3	M2	X	-1.921	-1.921	0	%100
4	M2	Z	1.109	1.109	0	%100
5	M13	X	-1.253	-1.253	0	%100
6	M13	Z	.723	.723	0	%100
7	M14	X	-1.253	-1.253	0	%100
8	M14	Z	.723	.723	0	%100
9	M15	X	-1.253	-1.253	0	%100
10	M15	Z	.723	.723	0	%100
11	M16	X	-1.253	-1.253	0	%100
12	M16	Z	.723	.723	0	%100
13	OVP1	X	-.096	-.096	0	%100
14	OVP1	Z	.056	.056	0	%100
15	M18	X	-.096	-.096	0	%100
16	M18	Z	.056	.056	0	%100
17	M19	X	-4.21	-4.21	0	%100
18	M19	Z	2.431	2.431	0	%100
19	OVP	X	-4.21	-4.21	0	%100
20	OVP	Z	2.431	2.431	0	%100
21	M21	X	-.418	-.418	0	%100
22	M21	Z	.241	.241	0	%100
23	M22	X	-.418	-.418	0	%100
24	M22	Z	.241	.241	0	%100
25	M23	X	-.418	-.418	0	%100
26	M23	Z	.241	.241	0	%100
27	M24	X	-.418	-.418	0	%100
28	M24	Z	.241	.241	0	%100
29	M25	X	-1.297	-1.297	0	%100
30	M25	Z	.749	.749	0	%100
31	M26	X	-1.297	-1.297	0	%100
32	M26	Z	.749	.749	0	%100
33	M27	X	-1.903	-1.903	0	%100
34	M27	Z	1.099	1.099	0	%100
35	M28	X	-1.903	-1.903	0	%100
36	M28	Z	1.099	1.099	0	%100
37	MP4A	X	-6.347	-6.347	0	%100
38	MP4A	Z	3.664	3.664	0	%100
39	MP3A	X	-6.347	-6.347	0	%100
40	MP3A	Z	3.664	3.664	0	%100
41	MP2A	X	-7.683	-7.683	0	%100
42	MP2A	Z	4.436	4.436	0	%100
43	MP1A	X	-6.347	-6.347	0	%100
44	MP1A	Z	3.664	3.664	0	%100
45	M44	X	-1.67	-1.67	0	%100
46	M44	Z	.964	.964	0	%100
47	M45	X	-1.67	-1.67	0	%100
48	M45	Z	.964	.964	0	%100
49	M46	X	-1.67	-1.67	0	%100
50	M46	Z	.964	.964	0	%100
51	M47	X	-1.67	-1.67	0	%100
52	M47	Z	.964	.964	0	%100
53	M44B	X	-4.279	-4.279	0	%100
54	M44B	Z	2.471	2.471	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.929	-1.929	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.929	-1.929	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.929	-1.929	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.929	-1.929	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	-2.148	-2.148	0	%100
14	OVP1	Z	0	0	0	%100
15	M18	X	-2.148	-2.148	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-2.148	-2.148	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	-2.148	-2.148	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.798	-1.798	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.798	-1.798	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.798	-1.798	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.798	-1.798	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-7.328	-7.328	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-7.328	-7.328	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-8.871	-8.871	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-7.328	-7.328	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-1.929	-1.929	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-1.929	-1.929	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-1.929	-1.929	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-1.929	-1.929	0	%100
52	M47	Z	0	0	0	%100
53	M44B	X	-7.277	-7.277	0	%100
54	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-1.921	-1.921	0	%100
2	FACE	Z	-1.109	-1.109	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	-1.921	-1.921	0	%100
4	M2	Z	-1.109	-1.109	0	%100
5	M13	X	-1.253	-1.253	0	%100
6	M13	Z	-.723	-.723	0	%100
7	M14	X	-1.253	-1.253	0	%100
8	M14	Z	-.723	-.723	0	%100
9	M15	X	-1.253	-1.253	0	%100
10	M15	Z	-.723	-.723	0	%100
11	M16	X	-1.253	-1.253	0	%100
12	M16	Z	-.723	-.723	0	%100
13	OVP1	X	-4.21	-4.21	0	%100
14	OVP1	Z	-2.431	-2.431	0	%100
15	M18	X	-4.21	-4.21	0	%100
16	M18	Z	-2.431	-2.431	0	%100
17	M19	X	-.096	-.096	0	%100
18	M19	Z	-.056	-.056	0	%100
19	OVP	X	-.096	-.096	0	%100
20	OVP	Z	-.056	-.056	0	%100
21	M21	X	-.418	-.418	0	%100
22	M21	Z	-.241	-.241	0	%100
23	M22	X	-.418	-.418	0	%100
24	M22	Z	-.241	-.241	0	%100
25	M23	X	-.418	-.418	0	%100
26	M23	Z	-.241	-.241	0	%100
27	M24	X	-.418	-.418	0	%100
28	M24	Z	-.241	-.241	0	%100
29	M25	X	-1.903	-1.903	0	%100
30	M25	Z	-1.099	-1.099	0	%100
31	M26	X	-1.903	-1.903	0	%100
32	M26	Z	-1.099	-1.099	0	%100
33	M27	X	-1.297	-1.297	0	%100
34	M27	Z	-.749	-.749	0	%100
35	M28	X	-1.297	-1.297	0	%100
36	M28	Z	-.749	-.749	0	%100
37	MP4A	X	-6.347	-6.347	0	%100
38	MP4A	Z	-3.664	-3.664	0	%100
39	MP3A	X	-6.347	-6.347	0	%100
40	MP3A	Z	-3.664	-3.664	0	%100
41	MP2A	X	-7.683	-7.683	0	%100
42	MP2A	Z	-4.436	-4.436	0	%100
43	MP1A	X	-6.347	-6.347	0	%100
44	MP1A	Z	-3.664	-3.664	0	%100
45	M44	X	-1.67	-1.67	0	%100
46	M44	Z	-.964	-.964	0	%100
47	M45	X	-1.67	-1.67	0	%100
48	M45	Z	-.964	-.964	0	%100
49	M46	X	-1.67	-1.67	0	%100
50	M46	Z	-.964	-.964	0	%100
51	M47	X	-1.67	-1.67	0	%100
52	M47	Z	-.964	-.964	0	%100
53	M44B	X	-5.196	-5.196	0	%100
54	M44B	Z	-3	-3	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-3.327	-3.327	0	%100
2	FACE	Z	-5.762	-5.762	0	%100
3	M2	X	-3.327	-3.327	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
4	M2	Z	-5.762	-5.762	0	%100
5	M13	X	-.241	-.241	0	%100
6	M13	Z	-.418	-.418	0	%100
7	M14	X	-.241	-.241	0	%100
8	M14	Z	-.418	-.418	0	%100
9	M15	X	-.241	-.241	0	%100
10	M15	Z	-.418	-.418	0	%100
11	M16	X	-.241	-.241	0	%100
12	M16	Z	-.418	-.418	0	%100
13	OVP1	X	-2.77	-2.77	0	%100
14	OVP1	Z	-4.797	-4.797	0	%100
15	M18	X	-2.77	-2.77	0	%100
16	M18	Z	-4.797	-4.797	0	%100
17	M19	X	-.394	-.394	0	%100
18	M19	Z	-.683	-.683	0	%100
19	OVP	X	-.394	-.394	0	%100
20	OVP	Z	-.683	-.683	0	%100
21	M21	X	-.723	-.723	0	%100
22	M21	Z	-1.253	-1.253	0	%100
23	M22	X	-.723	-.723	0	%100
24	M22	Z	-1.253	-1.253	0	%100
25	M23	X	-.723	-.723	0	%100
26	M23	Z	-1.253	-1.253	0	%100
27	M24	X	-.723	-.723	0	%100
28	M24	Z	-1.253	-1.253	0	%100
29	M25	X	-1.149	-1.149	0	%100
30	M25	Z	-1.99	-1.99	0	%100
31	M26	X	-1.149	-1.149	0	%100
32	M26	Z	-1.99	-1.99	0	%100
33	M27	X	-.799	-.799	0	%100
34	M27	Z	-1.383	-1.383	0	%100
35	M28	X	-.799	-.799	0	%100
36	M28	Z	-1.383	-1.383	0	%100
37	MP4A	X	-3.664	-3.664	0	%100
38	MP4A	Z	-6.347	-6.347	0	%100
39	MP3A	X	-3.664	-3.664	0	%100
40	MP3A	Z	-6.347	-6.347	0	%100
41	MP2A	X	-4.436	-4.436	0	%100
42	MP2A	Z	-7.683	-7.683	0	%100
43	MP1A	X	-3.664	-3.664	0	%100
44	MP1A	Z	-6.347	-6.347	0	%100
45	M44	X	-.964	-.964	0	%100
46	M44	Z	-1.67	-1.67	0	%100
47	M45	X	-.964	-.964	0	%100
48	M45	Z	-1.67	-1.67	0	%100
49	M46	X	-.964	-.964	0	%100
50	M46	Z	-1.67	-1.67	0	%100
51	M47	X	-.964	-.964	0	%100
52	M47	Z	-1.67	-1.67	0	%100
53	M44B	X	-1.194	-1.194	0	%100
54	M44B	Z	-2.067	-2.067	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-3.031	-3.031	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-3.031	-3.031	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	0	0	0	%100
14	OVP1	Z	-1.314	-1.314	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-1.314	-1.314	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-1.314	-1.314	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-1.314	-1.314	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.16	-1.16	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-1.16	-1.16	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.16	-1.16	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.16	-1.16	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.471	-1.471	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.471	-1.471	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.471	-1.471	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.471	-1.471	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-2.739	-2.739	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-2.739	-2.739	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-3.031	-3.031	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-2.739	-2.739	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-1.524	-1.524	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-1.524	-1.524	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-1.524	-1.524	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.524	-1.524	0	%100
53	M44B	X	0	0	0	%100
54	M44B	Z	-.019	-.019	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	1.136	1.136	0	%100
2	FACE	Z	-1.968	-1.968	0	%100
3	M2	X	1.136	1.136	0	%100
4	M2	Z	-1.968	-1.968	0	%100
5	M13	X	.144	.144	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
6	M13	Z	-.25	-.25	0	%100
7	M14	X	.144	.144	0	%100
8	M14	Z	-.25	-.25	0	%100
9	M15	X	.144	.144	0	%100
10	M15	Z	-.25	-.25	0	%100
11	M16	X	.144	.144	0	%100
12	M16	Z	-.25	-.25	0	%100
13	OVP1	X	.148	.148	0	%100
14	OVP1	Z	-.256	-.256	0	%100
15	M18	X	.148	.148	0	%100
16	M18	Z	-.256	-.256	0	%100
17	M19	X	1.039	1.039	0	%100
18	M19	Z	-1.799	-1.799	0	%100
19	OVP	X	1.039	1.039	0	%100
20	OVP	Z	-1.799	-1.799	0	%100
21	M21	X	.435	.435	0	%100
22	M21	Z	-.754	-.754	0	%100
23	M22	X	.435	.435	0	%100
24	M22	Z	-.754	-.754	0	%100
25	M23	X	.435	.435	0	%100
26	M23	Z	-.754	-.754	0	%100
27	M24	X	.435	.435	0	%100
28	M24	Z	-.754	-.754	0	%100
29	M25	X	.588	.588	0	%100
30	M25	Z	-1.019	-1.019	0	%100
31	M26	X	.588	.588	0	%100
32	M26	Z	-1.019	-1.019	0	%100
33	M27	X	.846	.846	0	%100
34	M27	Z	-1.466	-1.466	0	%100
35	M28	X	.846	.846	0	%100
36	M28	Z	-1.466	-1.466	0	%100
37	MP4A	X	1.369	1.369	0	%100
38	MP4A	Z	-2.372	-2.372	0	%100
39	MP3A	X	1.369	1.369	0	%100
40	MP3A	Z	-2.372	-2.372	0	%100
41	MP2A	X	1.515	1.515	0	%100
42	MP2A	Z	-2.625	-2.625	0	%100
43	MP1A	X	1.369	1.369	0	%100
44	MP1A	Z	-2.372	-2.372	0	%100
45	M44	X	.762	.762	0	%100
46	M44	Z	-1.319	-1.319	0	%100
47	M45	X	.762	.762	0	%100
48	M45	Z	-1.319	-1.319	0	%100
49	M46	X	.762	.762	0	%100
50	M46	Z	-1.319	-1.319	0	%100
51	M47	X	.762	.762	0	%100
52	M47	Z	-1.319	-1.319	0	%100
53	M44B	X	.248	.248	0	%100
54	M44B	Z	-.43	-.43	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.656	.656	0	%100
2	FACE	Z	-.379	-.379	0	%100
3	M2	X	.656	.656	0	%100
4	M2	Z	-.379	-.379	0	%100
5	M13	X	.75	.75	0	%100
6	M13	Z	-.433	-.433	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
7	M14	X	.75	.75	0	%100
8	M14	Z	-.433	-.433	0	%100
9	M15	X	.75	.75	0	%100
10	M15	Z	-.433	-.433	0	%100
11	M16	X	.75	.75	0	%100
12	M16	Z	-.433	-.433	0	%100
13	OVP1	X	.036	.036	0	%100
14	OVP1	Z	-.021	-.021	0	%100
15	M18	X	.036	.036	0	%100
16	M18	Z	-.021	-.021	0	%100
17	M19	X	1.579	1.579	0	%100
18	M19	Z	-.912	-.912	0	%100
19	OVP	X	1.579	1.579	0	%100
20	OVP	Z	-.912	-.912	0	%100
21	M21	X	.251	.251	0	%100
22	M21	Z	-.145	-.145	0	%100
23	M22	X	.251	.251	0	%100
24	M22	Z	-.145	-.145	0	%100
25	M23	X	.251	.251	0	%100
26	M23	Z	-.145	-.145	0	%100
27	M24	X	.251	.251	0	%100
28	M24	Z	-.145	-.145	0	%100
29	M25	X	.955	.955	0	%100
30	M25	Z	-.551	-.551	0	%100
31	M26	X	.955	.955	0	%100
32	M26	Z	-.551	-.551	0	%100
33	M27	X	1.402	1.402	0	%100
34	M27	Z	-.809	-.809	0	%100
35	M28	X	1.402	1.402	0	%100
36	M28	Z	-.809	-.809	0	%100
37	MP4A	X	2.372	2.372	0	%100
38	MP4A	Z	-1.369	-1.369	0	%100
39	MP3A	X	2.372	2.372	0	%100
40	MP3A	Z	-1.369	-1.369	0	%100
41	MP2A	X	2.625	2.625	0	%100
42	MP2A	Z	-1.515	-1.515	0	%100
43	MP1A	X	2.372	2.372	0	%100
44	MP1A	Z	-1.369	-1.369	0	%100
45	M44	X	1.319	1.319	0	%100
46	M44	Z	-.762	-.762	0	%100
47	M45	X	1.319	1.319	0	%100
48	M45	Z	-.762	-.762	0	%100
49	M46	X	1.319	1.319	0	%100
50	M46	Z	-.762	-.762	0	%100
51	M47	X	1.319	1.319	0	%100
52	M47	Z	-.762	-.762	0	%100
53	M44B	X	1.599	1.599	0	%100
54	M44B	Z	-.923	-.923	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	1.154	1.154	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	1.154	1.154	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
8	M14	Z	0	0	0	%100
9	M15	X	1.154	1.154	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.154	1.154	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	.806	.806	0	%100
14	OVP1	Z	0	0	0	%100
15	M18	X	.806	.806	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.806	.806	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	.806	.806	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.324	1.324	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.324	1.324	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.324	1.324	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.324	1.324	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	2.739	2.739	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	2.739	2.739	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	3.031	3.031	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	2.739	2.739	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.524	1.524	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.524	1.524	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.524	1.524	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	1.524	1.524	0	%100
52	M47	Z	0	0	0	%100
53	M44B	X	2.72	2.72	0	%100
54	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.656	.656	0	%100
2	FACE	Z	.379	.379	0	%100
3	M2	X	.656	.656	0	%100
4	M2	Z	.379	.379	0	%100
5	M13	X	.75	.75	0	%100
6	M13	Z	.433	.433	0	%100
7	M14	X	.75	.75	0	%100
8	M14	Z	.433	.433	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
9	M15	X	.75	.75	0	%100
10	M15	Z	.433	.433	0	%100
11	M16	X	.75	.75	0	%100
12	M16	Z	.433	.433	0	%100
13	OVP1	X	1.579	1.579	0	%100
14	OVP1	Z	.912	.912	0	%100
15	M18	X	1.579	1.579	0	%100
16	M18	Z	.912	.912	0	%100
17	M19	X	.036	.036	0	%100
18	M19	Z	.021	.021	0	%100
19	OVP	X	.036	.036	0	%100
20	OVP	Z	.021	.021	0	%100
21	M21	X	.251	.251	0	%100
22	M21	Z	.145	.145	0	%100
23	M22	X	.251	.251	0	%100
24	M22	Z	.145	.145	0	%100
25	M23	X	.251	.251	0	%100
26	M23	Z	.145	.145	0	%100
27	M24	X	.251	.251	0	%100
28	M24	Z	.145	.145	0	%100
29	M25	X	1.402	1.402	0	%100
30	M25	Z	.809	.809	0	%100
31	M26	X	1.402	1.402	0	%100
32	M26	Z	.809	.809	0	%100
33	M27	X	.955	.955	0	%100
34	M27	Z	.551	.551	0	%100
35	M28	X	.955	.955	0	%100
36	M28	Z	.551	.551	0	%100
37	MP4A	X	2.372	2.372	0	%100
38	MP4A	Z	1.369	1.369	0	%100
39	MP3A	X	2.372	2.372	0	%100
40	MP3A	Z	1.369	1.369	0	%100
41	MP2A	X	2.625	2.625	0	%100
42	MP2A	Z	1.515	1.515	0	%100
43	MP1A	X	2.372	2.372	0	%100
44	MP1A	Z	1.369	1.369	0	%100
45	M44	X	1.319	1.319	0	%100
46	M44	Z	.762	.762	0	%100
47	M45	X	1.319	1.319	0	%100
48	M45	Z	.762	.762	0	%100
49	M46	X	1.319	1.319	0	%100
50	M46	Z	.762	.762	0	%100
51	M47	X	1.319	1.319	0	%100
52	M47	Z	.762	.762	0	%100
53	M44B	X	1.942	1.942	0	%100
54	M44B	Z	1.121	1.121	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	1.136	1.136	0	%100
2	FACE	Z	1.968	1.968	0	%100
3	M2	X	1.136	1.136	0	%100
4	M2	Z	1.968	1.968	0	%100
5	M13	X	.144	.144	0	%100
6	M13	Z	.25	.25	0	%100
7	M14	X	.144	.144	0	%100
8	M14	Z	.25	.25	0	%100
9	M15	X	.144	.144	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
10	M15	Z	.25	.25	0	%100
11	M16	X	.144	.144	0	%100
12	M16	Z	.25	.25	0	%100
13	OVP1	X	1.039	1.039	0	%100
14	OVP1	Z	1.799	1.799	0	%100
15	M18	X	1.039	1.039	0	%100
16	M18	Z	1.799	1.799	0	%100
17	M19	X	.148	.148	0	%100
18	M19	Z	.256	.256	0	%100
19	OVP	X	.148	.148	0	%100
20	OVP	Z	.256	.256	0	%100
21	M21	X	.435	.435	0	%100
22	M21	Z	.754	.754	0	%100
23	M22	X	.435	.435	0	%100
24	M22	Z	.754	.754	0	%100
25	M23	X	.435	.435	0	%100
26	M23	Z	.754	.754	0	%100
27	M24	X	.435	.435	0	%100
28	M24	Z	.754	.754	0	%100
29	M25	X	.846	.846	0	%100
30	M25	Z	1.466	1.466	0	%100
31	M26	X	.846	.846	0	%100
32	M26	Z	1.466	1.466	0	%100
33	M27	X	.588	.588	0	%100
34	M27	Z	1.019	1.019	0	%100
35	M28	X	.588	.588	0	%100
36	M28	Z	1.019	1.019	0	%100
37	MP4A	X	1.369	1.369	0	%100
38	MP4A	Z	2.372	2.372	0	%100
39	MP3A	X	1.369	1.369	0	%100
40	MP3A	Z	2.372	2.372	0	%100
41	MP2A	X	1.515	1.515	0	%100
42	MP2A	Z	2.625	2.625	0	%100
43	MP1A	X	1.369	1.369	0	%100
44	MP1A	Z	2.372	2.372	0	%100
45	M44	X	.762	.762	0	%100
46	M44	Z	1.319	1.319	0	%100
47	M45	X	.762	.762	0	%100
48	M45	Z	1.319	1.319	0	%100
49	M46	X	.762	.762	0	%100
50	M46	Z	1.319	1.319	0	%100
51	M47	X	.762	.762	0	%100
52	M47	Z	1.319	1.319	0	%100
53	M44B	X	.446	.446	0	%100
54	M44B	Z	.773	.773	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	3.031	3.031	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	3.031	3.031	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	0	0	0	%100
14	OVP1	Z	1.314	1.314	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	1.314	1.314	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	1.314	1.314	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	1.314	1.314	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	1.16	1.16	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	1.16	1.16	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.16	1.16	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	1.16	1.16	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	1.471	1.471	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	1.471	1.471	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	1.471	1.471	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	1.471	1.471	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	2.739	2.739	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	2.739	2.739	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	3.031	3.031	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	2.739	2.739	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	1.524	1.524	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	1.524	1.524	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	1.524	1.524	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	1.524	1.524	0	%100
53	M44B	X	0	0	0	%100
54	M44B	Z	.019	.019	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-1.136	-1.136	0	%100
2	FACE	Z	1.968	1.968	0	%100
3	M2	X	-1.136	-1.136	0	%100
4	M2	Z	1.968	1.968	0	%100
5	M13	X	-.144	-.144	0	%100
6	M13	Z	.25	.25	0	%100
7	M14	X	-.144	-.144	0	%100
8	M14	Z	.25	.25	0	%100
9	M15	X	-.144	-.144	0	%100
10	M15	Z	.25	.25	0	%100
11	M16	X	-.144	-.144	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
12	M16	Z	.25	.25	0	%100
13	OVP1	X	-.148	-.148	0	%100
14	OVP1	Z	.256	.256	0	%100
15	M18	X	-.148	-.148	0	%100
16	M18	Z	.256	.256	0	%100
17	M19	X	-1.039	-1.039	0	%100
18	M19	Z	1.799	1.799	0	%100
19	OVP	X	-1.039	-1.039	0	%100
20	OVP	Z	1.799	1.799	0	%100
21	M21	X	-.435	-.435	0	%100
22	M21	Z	.754	.754	0	%100
23	M22	X	-.435	-.435	0	%100
24	M22	Z	.754	.754	0	%100
25	M23	X	-.435	-.435	0	%100
26	M23	Z	.754	.754	0	%100
27	M24	X	-.435	-.435	0	%100
28	M24	Z	.754	.754	0	%100
29	M25	X	-.588	-.588	0	%100
30	M25	Z	1.019	1.019	0	%100
31	M26	X	-.588	-.588	0	%100
32	M26	Z	1.019	1.019	0	%100
33	M27	X	-.846	-.846	0	%100
34	M27	Z	1.466	1.466	0	%100
35	M28	X	-.846	-.846	0	%100
36	M28	Z	1.466	1.466	0	%100
37	MP4A	X	-1.369	-1.369	0	%100
38	MP4A	Z	2.372	2.372	0	%100
39	MP3A	X	-1.369	-1.369	0	%100
40	MP3A	Z	2.372	2.372	0	%100
41	MP2A	X	-1.515	-1.515	0	%100
42	MP2A	Z	2.625	2.625	0	%100
43	MP1A	X	-1.369	-1.369	0	%100
44	MP1A	Z	2.372	2.372	0	%100
45	M44	X	-.762	-.762	0	%100
46	M44	Z	1.319	1.319	0	%100
47	M45	X	-.762	-.762	0	%100
48	M45	Z	1.319	1.319	0	%100
49	M46	X	-.762	-.762	0	%100
50	M46	Z	1.319	1.319	0	%100
51	M47	X	-.762	-.762	0	%100
52	M47	Z	1.319	1.319	0	%100
53	M44B	X	-.248	-.248	0	%100
54	M44B	Z	.43	.43	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.656	-.656	0	%100
2	FACE	Z	.379	.379	0	%100
3	M2	X	-.656	-.656	0	%100
4	M2	Z	.379	.379	0	%100
5	M13	X	-.75	-.75	0	%100
6	M13	Z	.433	.433	0	%100
7	M14	X	-.75	-.75	0	%100
8	M14	Z	.433	.433	0	%100
9	M15	X	-.75	-.75	0	%100
10	M15	Z	.433	.433	0	%100
11	M16	X	-.75	-.75	0	%100
12	M16	Z	.433	.433	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
13	OVP1	X	-.036	-.036	0	%100
14	OVP1	Z	.021	.021	0	%100
15	M18	X	-.036	-.036	0	%100
16	M18	Z	.021	.021	0	%100
17	M19	X	-1.579	-1.579	0	%100
18	M19	Z	.912	.912	0	%100
19	OVP	X	-1.579	-1.579	0	%100
20	OVP	Z	.912	.912	0	%100
21	M21	X	-.251	-.251	0	%100
22	M21	Z	.145	.145	0	%100
23	M22	X	-.251	-.251	0	%100
24	M22	Z	.145	.145	0	%100
25	M23	X	-.251	-.251	0	%100
26	M23	Z	.145	.145	0	%100
27	M24	X	-.251	-.251	0	%100
28	M24	Z	.145	.145	0	%100
29	M25	X	-.955	-.955	0	%100
30	M25	Z	.551	.551	0	%100
31	M26	X	-.955	-.955	0	%100
32	M26	Z	.551	.551	0	%100
33	M27	X	-1.402	-1.402	0	%100
34	M27	Z	.809	.809	0	%100
35	M28	X	-1.402	-1.402	0	%100
36	M28	Z	.809	.809	0	%100
37	MP4A	X	-2.372	-2.372	0	%100
38	MP4A	Z	1.369	1.369	0	%100
39	MP3A	X	-2.372	-2.372	0	%100
40	MP3A	Z	1.369	1.369	0	%100
41	MP2A	X	-2.625	-2.625	0	%100
42	MP2A	Z	1.515	1.515	0	%100
43	MP1A	X	-2.372	-2.372	0	%100
44	MP1A	Z	1.369	1.369	0	%100
45	M44	X	-1.319	-1.319	0	%100
46	M44	Z	.762	.762	0	%100
47	M45	X	-1.319	-1.319	0	%100
48	M45	Z	.762	.762	0	%100
49	M46	X	-1.319	-1.319	0	%100
50	M46	Z	.762	.762	0	%100
51	M47	X	-1.319	-1.319	0	%100
52	M47	Z	.762	.762	0	%100
53	M44B	X	-1.599	-1.599	0	%100
54	M44B	Z	.923	.923	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-1.154	-1.154	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-1.154	-1.154	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-1.154	-1.154	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-1.154	-1.154	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	-.806	-.806	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
14	OVP1	Z	0	0	0	%100
15	M18	X	-.806	-.806	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.806	-.806	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	-.806	-.806	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-1.324	-1.324	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-1.324	-1.324	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-1.324	-1.324	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-1.324	-1.324	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-2.739	-2.739	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-2.739	-2.739	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-3.031	-3.031	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-2.739	-2.739	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-1.524	-1.524	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-1.524	-1.524	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-1.524	-1.524	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-1.524	-1.524	0	%100
52	M47	Z	0	0	0	%100
53	M44B	X	-2.72	-2.72	0	%100
54	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.656	-.656	0	%100
2	FACE	Z	-.379	-.379	0	%100
3	M2	X	-.656	-.656	0	%100
4	M2	Z	-.379	-.379	0	%100
5	M13	X	-.75	-.75	0	%100
6	M13	Z	-.433	-.433	0	%100
7	M14	X	-.75	-.75	0	%100
8	M14	Z	-.433	-.433	0	%100
9	M15	X	-.75	-.75	0	%100
10	M15	Z	-.433	-.433	0	%100
11	M16	X	-.75	-.75	0	%100
12	M16	Z	-.433	-.433	0	%100
13	OVP1	X	-1.579	-1.579	0	%100
14	OVP1	Z	-.912	-.912	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
15	M18	X	-1.579	-1.579	0	%100
16	M18	Z	-.912	-.912	0	%100
17	M19	X	-.036	-.036	0	%100
18	M19	Z	-.021	-.021	0	%100
19	OVP	X	-.036	-.036	0	%100
20	OVP	Z	-.021	-.021	0	%100
21	M21	X	-.251	-.251	0	%100
22	M21	Z	-.145	-.145	0	%100
23	M22	X	-.251	-.251	0	%100
24	M22	Z	-.145	-.145	0	%100
25	M23	X	-.251	-.251	0	%100
26	M23	Z	-.145	-.145	0	%100
27	M24	X	-.251	-.251	0	%100
28	M24	Z	-.145	-.145	0	%100
29	M25	X	-1.402	-1.402	0	%100
30	M25	Z	-.809	-.809	0	%100
31	M26	X	-1.402	-1.402	0	%100
32	M26	Z	-.809	-.809	0	%100
33	M27	X	-.955	-.955	0	%100
34	M27	Z	-.551	-.551	0	%100
35	M28	X	-.955	-.955	0	%100
36	M28	Z	-.551	-.551	0	%100
37	MP4A	X	-2.372	-2.372	0	%100
38	MP4A	Z	-1.369	-1.369	0	%100
39	MP3A	X	-2.372	-2.372	0	%100
40	MP3A	Z	-1.369	-1.369	0	%100
41	MP2A	X	-2.625	-2.625	0	%100
42	MP2A	Z	-1.515	-1.515	0	%100
43	MP1A	X	-2.372	-2.372	0	%100
44	MP1A	Z	-1.369	-1.369	0	%100
45	M44	X	-1.319	-1.319	0	%100
46	M44	Z	-.762	-.762	0	%100
47	M45	X	-1.319	-1.319	0	%100
48	M45	Z	-.762	-.762	0	%100
49	M46	X	-1.319	-1.319	0	%100
50	M46	Z	-.762	-.762	0	%100
51	M47	X	-1.319	-1.319	0	%100
52	M47	Z	-.762	-.762	0	%100
53	M44B	X	-1.942	-1.942	0	%100
54	M44B	Z	-1.121	-1.121	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-1.136	-1.136	0	%100
2	FACE	Z	-1.968	-1.968	0	%100
3	M2	X	-1.136	-1.136	0	%100
4	M2	Z	-1.968	-1.968	0	%100
5	M13	X	-.144	-.144	0	%100
6	M13	Z	-.25	-.25	0	%100
7	M14	X	-.144	-.144	0	%100
8	M14	Z	-.25	-.25	0	%100
9	M15	X	-.144	-.144	0	%100
10	M15	Z	-.25	-.25	0	%100
11	M16	X	-.144	-.144	0	%100
12	M16	Z	-.25	-.25	0	%100
13	OVP1	X	-1.039	-1.039	0	%100
14	OVP1	Z	-1.799	-1.799	0	%100
15	M18	X	-1.039	-1.039	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
16	M18	Z	-1.799	-1.799	0	%100
17	M19	X	-.148	-.148	0	%100
18	M19	Z	-.256	-.256	0	%100
19	OVP	X	-.148	-.148	0	%100
20	OVP	Z	-.256	-.256	0	%100
21	M21	X	-.435	-.435	0	%100
22	M21	Z	-.754	-.754	0	%100
23	M22	X	-.435	-.435	0	%100
24	M22	Z	-.754	-.754	0	%100
25	M23	X	-.435	-.435	0	%100
26	M23	Z	-.754	-.754	0	%100
27	M24	X	-.435	-.435	0	%100
28	M24	Z	-.754	-.754	0	%100
29	M25	X	-.846	-.846	0	%100
30	M25	Z	-1.466	-1.466	0	%100
31	M26	X	-.846	-.846	0	%100
32	M26	Z	-1.466	-1.466	0	%100
33	M27	X	-.588	-.588	0	%100
34	M27	Z	-1.019	-1.019	0	%100
35	M28	X	-.588	-.588	0	%100
36	M28	Z	-1.019	-1.019	0	%100
37	MP4A	X	-1.369	-1.369	0	%100
38	MP4A	Z	-2.372	-2.372	0	%100
39	MP3A	X	-1.369	-1.369	0	%100
40	MP3A	Z	-2.372	-2.372	0	%100
41	MP2A	X	-1.515	-1.515	0	%100
42	MP2A	Z	-2.625	-2.625	0	%100
43	MP1A	X	-1.369	-1.369	0	%100
44	MP1A	Z	-2.372	-2.372	0	%100
45	M44	X	-.762	-.762	0	%100
46	M44	Z	-1.319	-1.319	0	%100
47	M45	X	-.762	-.762	0	%100
48	M45	Z	-1.319	-1.319	0	%100
49	M46	X	-.762	-.762	0	%100
50	M46	Z	-1.319	-1.319	0	%100
51	M47	X	-.762	-.762	0	%100
52	M47	Z	-1.319	-1.319	0	%100
53	M44B	X	-.446	-.446	0	%100
54	M44B	Z	-.773	-.773	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	-.604	-.604	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.604	-.604	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	0	0	0	%100
14	OVP1	Z	-.238	-.238	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-.238	-.238	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
17	M19	X	0	0	0	%100
18	M19	Z	-.238	-.238	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	-.238	-.238	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-.131	-.131	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	-.131	-.131	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-.131	-.131	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-.131	-.131	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-.136	-.136	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-.136	-.136	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-.136	-.136	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-.136	-.136	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-.499	-.499	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-.499	-.499	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-.604	-.604	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-.499	-.499	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-.131	-.131	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-.131	-.131	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-.131	-.131	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-.131	-.131	0	%100
53	M44B	X	0	0	0	%100
54	M44B	Z	-.003	-.003	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.226	.226	0	%100
2	FACE	Z	-.392	-.392	0	%100
3	M2	X	.226	.226	0	%100
4	M2	Z	-.392	-.392	0	%100
5	M13	X	.016	.016	0	%100
6	M13	Z	-.028	-.028	0	%100
7	M14	X	.016	.016	0	%100
8	M14	Z	-.028	-.028	0	%100
9	M15	X	.016	.016	0	%100
10	M15	Z	-.028	-.028	0	%100
11	M16	X	.016	.016	0	%100
12	M16	Z	-.028	-.028	0	%100
13	OVP1	X	.027	.027	0	%100
14	OVP1	Z	-.046	-.046	0	%100
15	M18	X	.027	.027	0	%100
16	M18	Z	-.046	-.046	0	%100
17	M19	X	.188	.188	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
18	M19	Z	-.326	-.326	0	%100
19	OVP	X	.188	.188	0	%100
20	OVP	Z	-.326	-.326	0	%100
21	M21	X	.049	.049	0	%100
22	M21	Z	-.085	-.085	0	%100
23	M22	X	.049	.049	0	%100
24	M22	Z	-.085	-.085	0	%100
25	M23	X	.049	.049	0	%100
26	M23	Z	-.085	-.085	0	%100
27	M24	X	.049	.049	0	%100
28	M24	Z	-.085	-.085	0	%100
29	M25	X	.054	.054	0	%100
30	M25	Z	-.094	-.094	0	%100
31	M26	X	.054	.054	0	%100
32	M26	Z	-.094	-.094	0	%100
33	M27	X	.078	.078	0	%100
34	M27	Z	-.135	-.135	0	%100
35	M28	X	.078	.078	0	%100
36	M28	Z	-.135	-.135	0	%100
37	MP4A	X	.249	.249	0	%100
38	MP4A	Z	-.432	-.432	0	%100
39	MP3A	X	.249	.249	0	%100
40	MP3A	Z	-.432	-.432	0	%100
41	MP2A	X	.302	.302	0	%100
42	MP2A	Z	-.523	-.523	0	%100
43	MP1A	X	.249	.249	0	%100
44	MP1A	Z	-.432	-.432	0	%100
45	M44	X	.066	.066	0	%100
46	M44	Z	-.114	-.114	0	%100
47	M45	X	.066	.066	0	%100
48	M45	Z	-.114	-.114	0	%100
49	M46	X	.066	.066	0	%100
50	M46	Z	-.114	-.114	0	%100
51	M47	X	.066	.066	0	%100
52	M47	Z	-.114	-.114	0	%100
53	M44B	X	.045	.045	0	%100
54	M44B	Z	-.078	-.078	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.131	.131	0	%100
2	FACE	Z	-.075	-.075	0	%100
3	M2	X	.131	.131	0	%100
4	M2	Z	-.075	-.075	0	%100
5	M13	X	.085	.085	0	%100
6	M13	Z	-.049	-.049	0	%100
7	M14	X	.085	.085	0	%100
8	M14	Z	-.049	-.049	0	%100
9	M15	X	.085	.085	0	%100
10	M15	Z	-.049	-.049	0	%100
11	M16	X	.085	.085	0	%100
12	M16	Z	-.049	-.049	0	%100
13	OVP1	X	.007	.007	0	%100
14	OVP1	Z	-.004	-.004	0	%100
15	M18	X	.007	.007	0	%100
16	M18	Z	-.004	-.004	0	%100
17	M19	X	.287	.287	0	%100
18	M19	Z	-.165	-.165	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
19	OVP	X	.287	.287	0	%100
20	OVP	Z	-.165	-.165	0	%100
21	M21	X	.028	.028	0	%100
22	M21	Z	-.016	-.016	0	%100
23	M22	X	.028	.028	0	%100
24	M22	Z	-.016	-.016	0	%100
25	M23	X	.028	.028	0	%100
26	M23	Z	-.016	-.016	0	%100
27	M24	X	.028	.028	0	%100
28	M24	Z	-.016	-.016	0	%100
29	M25	X	.088	.088	0	%100
30	M25	Z	-.051	-.051	0	%100
31	M26	X	.088	.088	0	%100
32	M26	Z	-.051	-.051	0	%100
33	M27	X	.13	.13	0	%100
34	M27	Z	-.075	-.075	0	%100
35	M28	X	.13	.13	0	%100
36	M28	Z	-.075	-.075	0	%100
37	MP4A	X	.432	.432	0	%100
38	MP4A	Z	-.249	-.249	0	%100
39	MP3A	X	.432	.432	0	%100
40	MP3A	Z	-.249	-.249	0	%100
41	MP2A	X	.523	.523	0	%100
42	MP2A	Z	-.302	-.302	0	%100
43	MP1A	X	.432	.432	0	%100
44	MP1A	Z	-.249	-.249	0	%100
45	M44	X	.114	.114	0	%100
46	M44	Z	-.066	-.066	0	%100
47	M45	X	.114	.114	0	%100
48	M45	Z	-.066	-.066	0	%100
49	M46	X	.114	.114	0	%100
50	M46	Z	-.066	-.066	0	%100
51	M47	X	.114	.114	0	%100
52	M47	Z	-.066	-.066	0	%100
53	M44B	X	.291	.291	0	%100
54	M44B	Z	-.168	-.168	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	.131	.131	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	.131	.131	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	.131	.131	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	.131	.131	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	.146	.146	0	%100
14	OVP1	Z	0	0	0	%100
15	M18	X	.146	.146	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.146	.146	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	.146	.146	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	.122	.122	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	.122	.122	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	.122	.122	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	.122	.122	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	.499	.499	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	.499	.499	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	.604	.604	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	.499	.499	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	.131	.131	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	.131	.131	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	.131	.131	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	.131	.131	0	%100
52	M47	Z	0	0	0	%100
53	M44B	X	.495	.495	0	%100
54	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.131	.131	0	%100
2	FACE	Z	.075	.075	0	%100
3	M2	X	.131	.131	0	%100
4	M2	Z	.075	.075	0	%100
5	M13	X	.085	.085	0	%100
6	M13	Z	.049	.049	0	%100
7	M14	X	.085	.085	0	%100
8	M14	Z	.049	.049	0	%100
9	M15	X	.085	.085	0	%100
10	M15	Z	.049	.049	0	%100
11	M16	X	.085	.085	0	%100
12	M16	Z	.049	.049	0	%100
13	OVP1	X	.287	.287	0	%100
14	OVP1	Z	.165	.165	0	%100
15	M18	X	.287	.287	0	%100
16	M18	Z	.165	.165	0	%100
17	M19	X	.007	.007	0	%100
18	M19	Z	.004	.004	0	%100
19	OVP	X	.007	.007	0	%100
20	OVP	Z	.004	.004	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
21	M21	X	.028	.028	0	%100
22	M21	Z	.016	.016	0	%100
23	M22	X	.028	.028	0	%100
24	M22	Z	.016	.016	0	%100
25	M23	X	.028	.028	0	%100
26	M23	Z	.016	.016	0	%100
27	M24	X	.028	.028	0	%100
28	M24	Z	.016	.016	0	%100
29	M25	X	.13	.13	0	%100
30	M25	Z	.075	.075	0	%100
31	M26	X	.13	.13	0	%100
32	M26	Z	.075	.075	0	%100
33	M27	X	.088	.088	0	%100
34	M27	Z	.051	.051	0	%100
35	M28	X	.088	.088	0	%100
36	M28	Z	.051	.051	0	%100
37	MP4A	X	.432	.432	0	%100
38	MP4A	Z	.249	.249	0	%100
39	MP3A	X	.432	.432	0	%100
40	MP3A	Z	.249	.249	0	%100
41	MP2A	X	.523	.523	0	%100
42	MP2A	Z	.302	.302	0	%100
43	MP1A	X	.432	.432	0	%100
44	MP1A	Z	.249	.249	0	%100
45	M44	X	.114	.114	0	%100
46	M44	Z	.066	.066	0	%100
47	M45	X	.114	.114	0	%100
48	M45	Z	.066	.066	0	%100
49	M46	X	.114	.114	0	%100
50	M46	Z	.066	.066	0	%100
51	M47	X	.114	.114	0	%100
52	M47	Z	.066	.066	0	%100
53	M44B	X	.354	.354	0	%100
54	M44B	Z	.204	.204	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	.226	.226	0	%100
2	FACE	Z	.392	.392	0	%100
3	M2	X	.226	.226	0	%100
4	M2	Z	.392	.392	0	%100
5	M13	X	.016	.016	0	%100
6	M13	Z	.028	.028	0	%100
7	M14	X	.016	.016	0	%100
8	M14	Z	.028	.028	0	%100
9	M15	X	.016	.016	0	%100
10	M15	Z	.028	.028	0	%100
11	M16	X	.016	.016	0	%100
12	M16	Z	.028	.028	0	%100
13	OVP1	X	.188	.188	0	%100
14	OVP1	Z	.326	.326	0	%100
15	M18	X	.188	.188	0	%100
16	M18	Z	.326	.326	0	%100
17	M19	X	.027	.027	0	%100
18	M19	Z	.046	.046	0	%100
19	OVP	X	.027	.027	0	%100
20	OVP	Z	.046	.046	0	%100
21	M21	X	.049	.049	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
22	M21	Z	.085	.085	0	%100
23	M22	X	.049	.049	0	%100
24	M22	Z	.085	.085	0	%100
25	M23	X	.049	.049	0	%100
26	M23	Z	.085	.085	0	%100
27	M24	X	.049	.049	0	%100
28	M24	Z	.085	.085	0	%100
29	M25	X	.078	.078	0	%100
30	M25	Z	.135	.135	0	%100
31	M26	X	.078	.078	0	%100
32	M26	Z	.135	.135	0	%100
33	M27	X	.054	.054	0	%100
34	M27	Z	.094	.094	0	%100
35	M28	X	.054	.054	0	%100
36	M28	Z	.094	.094	0	%100
37	MP4A	X	.249	.249	0	%100
38	MP4A	Z	.432	.432	0	%100
39	MP3A	X	.249	.249	0	%100
40	MP3A	Z	.432	.432	0	%100
41	MP2A	X	.302	.302	0	%100
42	MP2A	Z	.523	.523	0	%100
43	MP1A	X	.249	.249	0	%100
44	MP1A	Z	.432	.432	0	%100
45	M44	X	.066	.066	0	%100
46	M44	Z	.114	.114	0	%100
47	M45	X	.066	.066	0	%100
48	M45	Z	.114	.114	0	%100
49	M46	X	.066	.066	0	%100
50	M46	Z	.114	.114	0	%100
51	M47	X	.066	.066	0	%100
52	M47	Z	.114	.114	0	%100
53	M44B	X	.081	.081	0	%100
54	M44B	Z	.141	.141	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	.604	.604	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.604	.604	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	0	0	0	%100
14	OVP1	Z	.238	.238	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	.238	.238	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	.238	.238	0	%100
19	OVP	X	0	0	0	%100
20	OVP	Z	.238	.238	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	.131	.131	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
23	M22	X	0	0	0	%100
24	M22	Z	.131	.131	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.131	.131	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	.131	.131	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	.136	.136	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	.136	.136	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	.136	.136	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	.136	.136	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	.499	.499	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	.499	.499	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	.604	.604	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	.499	.499	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	.131	.131	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	.131	.131	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	.131	.131	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.131	.131	0	%100
53	M44B	X	0	0	0	%100
54	M44B	Z	.003	.003	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.226	-.226	0	%100
2	FACE	Z	.392	.392	0	%100
3	M2	X	-.226	-.226	0	%100
4	M2	Z	.392	.392	0	%100
5	M13	X	-.016	-.016	0	%100
6	M13	Z	.028	.028	0	%100
7	M14	X	-.016	-.016	0	%100
8	M14	Z	.028	.028	0	%100
9	M15	X	-.016	-.016	0	%100
10	M15	Z	.028	.028	0	%100
11	M16	X	-.016	-.016	0	%100
12	M16	Z	.028	.028	0	%100
13	OVP1	X	-.027	-.027	0	%100
14	OVP1	Z	.046	.046	0	%100
15	M18	X	-.027	-.027	0	%100
16	M18	Z	.046	.046	0	%100
17	M19	X	-.188	-.188	0	%100
18	M19	Z	.326	.326	0	%100
19	OVP	X	-.188	-.188	0	%100
20	OVP	Z	.326	.326	0	%100
21	M21	X	-.049	-.049	0	%100
22	M21	Z	.085	.085	0	%100
23	M22	X	-.049	-.049	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
24	M22	Z	.085	.085	0	%100
25	M23	X	-.049	-.049	0	%100
26	M23	Z	.085	.085	0	%100
27	M24	X	-.049	-.049	0	%100
28	M24	Z	.085	.085	0	%100
29	M25	X	-.054	-.054	0	%100
30	M25	Z	.094	.094	0	%100
31	M26	X	-.054	-.054	0	%100
32	M26	Z	.094	.094	0	%100
33	M27	X	-.078	-.078	0	%100
34	M27	Z	.135	.135	0	%100
35	M28	X	-.078	-.078	0	%100
36	M28	Z	.135	.135	0	%100
37	MP4A	X	-.249	-.249	0	%100
38	MP4A	Z	.432	.432	0	%100
39	MP3A	X	-.249	-.249	0	%100
40	MP3A	Z	.432	.432	0	%100
41	MP2A	X	-.302	-.302	0	%100
42	MP2A	Z	.523	.523	0	%100
43	MP1A	X	-.249	-.249	0	%100
44	MP1A	Z	.432	.432	0	%100
45	M44	X	-.066	-.066	0	%100
46	M44	Z	.114	.114	0	%100
47	M45	X	-.066	-.066	0	%100
48	M45	Z	.114	.114	0	%100
49	M46	X	-.066	-.066	0	%100
50	M46	Z	.114	.114	0	%100
51	M47	X	-.066	-.066	0	%100
52	M47	Z	.114	.114	0	%100
53	M44B	X	-.045	-.045	0	%100
54	M44B	Z	.078	.078	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.131	-.131	0	%100
2	FACE	Z	.075	.075	0	%100
3	M2	X	-.131	-.131	0	%100
4	M2	Z	.075	.075	0	%100
5	M13	X	-.085	-.085	0	%100
6	M13	Z	.049	.049	0	%100
7	M14	X	-.085	-.085	0	%100
8	M14	Z	.049	.049	0	%100
9	M15	X	-.085	-.085	0	%100
10	M15	Z	.049	.049	0	%100
11	M16	X	-.085	-.085	0	%100
12	M16	Z	.049	.049	0	%100
13	OVP1	X	-.007	-.007	0	%100
14	OVP1	Z	.004	.004	0	%100
15	M18	X	-.007	-.007	0	%100
16	M18	Z	.004	.004	0	%100
17	M19	X	-.287	-.287	0	%100
18	M19	Z	.165	.165	0	%100
19	OVP	X	-.287	-.287	0	%100
20	OVP	Z	.165	.165	0	%100
21	M21	X	-.028	-.028	0	%100
22	M21	Z	.016	.016	0	%100
23	M22	X	-.028	-.028	0	%100
24	M22	Z	.016	.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
25	M23	X	-.028	-.028	0	%100
26	M23	Z	.016	.016	0	%100
27	M24	X	-.028	-.028	0	%100
28	M24	Z	.016	.016	0	%100
29	M25	X	-.088	-.088	0	%100
30	M25	Z	.051	.051	0	%100
31	M26	X	-.088	-.088	0	%100
32	M26	Z	.051	.051	0	%100
33	M27	X	-.13	-.13	0	%100
34	M27	Z	.075	.075	0	%100
35	M28	X	-.13	-.13	0	%100
36	M28	Z	.075	.075	0	%100
37	MP4A	X	-.432	-.432	0	%100
38	MP4A	Z	.249	.249	0	%100
39	MP3A	X	-.432	-.432	0	%100
40	MP3A	Z	.249	.249	0	%100
41	MP2A	X	-.523	-.523	0	%100
42	MP2A	Z	.302	.302	0	%100
43	MP1A	X	-.432	-.432	0	%100
44	MP1A	Z	.249	.249	0	%100
45	M44	X	-.114	-.114	0	%100
46	M44	Z	.066	.066	0	%100
47	M45	X	-.114	-.114	0	%100
48	M45	Z	.066	.066	0	%100
49	M46	X	-.114	-.114	0	%100
50	M46	Z	.066	.066	0	%100
51	M47	X	-.114	-.114	0	%100
52	M47	Z	.066	.066	0	%100
53	M44B	X	-.291	-.291	0	%100
54	M44B	Z	.168	.168	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.131	-.131	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.131	-.131	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.131	-.131	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.131	-.131	0	%100
12	M16	Z	0	0	0	%100
13	OVP1	X	-.146	-.146	0	%100
14	OVP1	Z	0	0	0	%100
15	M18	X	-.146	-.146	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.146	-.146	0	%100
18	M19	Z	0	0	0	%100
19	OVP	X	-.146	-.146	0	%100
20	OVP	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.122	-.122	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.122	-.122	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.122	-.122	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.122	-.122	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-.499	-.499	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-.499	-.499	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-.604	-.604	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-.499	-.499	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-.131	-.131	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-.131	-.131	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-.131	-.131	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-.131	-.131	0	%100
52	M47	Z	0	0	0	%100
53	M44B	X	-.495	-.495	0	%100
54	M44B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.131	-.131	0	%100
2	FACE	Z	-.075	-.075	0	%100
3	M2	X	-.131	-.131	0	%100
4	M2	Z	-.075	-.075	0	%100
5	M13	X	-.085	-.085	0	%100
6	M13	Z	-.049	-.049	0	%100
7	M14	X	-.085	-.085	0	%100
8	M14	Z	-.049	-.049	0	%100
9	M15	X	-.085	-.085	0	%100
10	M15	Z	-.049	-.049	0	%100
11	M16	X	-.085	-.085	0	%100
12	M16	Z	-.049	-.049	0	%100
13	OVP1	X	-.287	-.287	0	%100
14	OVP1	Z	-.165	-.165	0	%100
15	M18	X	-.287	-.287	0	%100
16	M18	Z	-.165	-.165	0	%100
17	M19	X	-.007	-.007	0	%100
18	M19	Z	-.004	-.004	0	%100
19	OVP	X	-.007	-.007	0	%100
20	OVP	Z	-.004	-.004	0	%100
21	M21	X	-.028	-.028	0	%100
22	M21	Z	-.016	-.016	0	%100
23	M22	X	-.028	-.028	0	%100
24	M22	Z	-.016	-.016	0	%100
25	M23	X	-.028	-.028	0	%100
26	M23	Z	-.016	-.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
27	M24	X	-.028	-.028	0	%100
28	M24	Z	-.016	-.016	0	%100
29	M25	X	-.13	-.13	0	%100
30	M25	Z	-.075	-.075	0	%100
31	M26	X	-.13	-.13	0	%100
32	M26	Z	-.075	-.075	0	%100
33	M27	X	-.088	-.088	0	%100
34	M27	Z	-.051	-.051	0	%100
35	M28	X	-.088	-.088	0	%100
36	M28	Z	-.051	-.051	0	%100
37	MP4A	X	-.432	-.432	0	%100
38	MP4A	Z	-.249	-.249	0	%100
39	MP3A	X	-.432	-.432	0	%100
40	MP3A	Z	-.249	-.249	0	%100
41	MP2A	X	-.523	-.523	0	%100
42	MP2A	Z	-.302	-.302	0	%100
43	MP1A	X	-.432	-.432	0	%100
44	MP1A	Z	-.249	-.249	0	%100
45	M44	X	-.114	-.114	0	%100
46	M44	Z	-.066	-.066	0	%100
47	M45	X	-.114	-.114	0	%100
48	M45	Z	-.066	-.066	0	%100
49	M46	X	-.114	-.114	0	%100
50	M46	Z	-.066	-.066	0	%100
51	M47	X	-.114	-.114	0	%100
52	M47	Z	-.066	-.066	0	%100
53	M44B	X	-.354	-.354	0	%100
54	M44B	Z	-.204	-.204	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
1	FACE	X	-.226	-.226	0	%100
2	FACE	Z	-.392	-.392	0	%100
3	M2	X	-.226	-.226	0	%100
4	M2	Z	-.392	-.392	0	%100
5	M13	X	-.016	-.016	0	%100
6	M13	Z	-.028	-.028	0	%100
7	M14	X	-.016	-.016	0	%100
8	M14	Z	-.028	-.028	0	%100
9	M15	X	-.016	-.016	0	%100
10	M15	Z	-.028	-.028	0	%100
11	M16	X	-.016	-.016	0	%100
12	M16	Z	-.028	-.028	0	%100
13	OVP1	X	-.188	-.188	0	%100
14	OVP1	Z	-.326	-.326	0	%100
15	M18	X	-.188	-.188	0	%100
16	M18	Z	-.326	-.326	0	%100
17	M19	X	-.027	-.027	0	%100
18	M19	Z	-.046	-.046	0	%100
19	OVP	X	-.027	-.027	0	%100
20	OVP	Z	-.046	-.046	0	%100
21	M21	X	-.049	-.049	0	%100
22	M21	Z	-.085	-.085	0	%100
23	M22	X	-.049	-.049	0	%100
24	M22	Z	-.085	-.085	0	%100
25	M23	X	-.049	-.049	0	%100
26	M23	Z	-.085	-.085	0	%100
27	M24	X	-.049	-.049	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,...	Start Location[ft,%]	End Location[ft,%]
28	M24	Z	-.085	-.085	0	%100
29	M25	X	-.078	-.078	0	%100
30	M25	Z	-.135	-.135	0	%100
31	M26	X	-.078	-.078	0	%100
32	M26	Z	-.135	-.135	0	%100
33	M27	X	-.054	-.054	0	%100
34	M27	Z	-.094	-.094	0	%100
35	M28	X	-.054	-.054	0	%100
36	M28	Z	-.094	-.094	0	%100
37	MP4A	X	-.249	-.249	0	%100
38	MP4A	Z	-.432	-.432	0	%100
39	MP3A	X	-.249	-.249	0	%100
40	MP3A	Z	-.432	-.432	0	%100
41	MP2A	X	-.302	-.302	0	%100
42	MP2A	Z	-.523	-.523	0	%100
43	MP1A	X	-.249	-.249	0	%100
44	MP1A	Z	-.432	-.432	0	%100
45	M44	X	-.066	-.066	0	%100
46	M44	Z	-.114	-.114	0	%100
47	M45	X	-.066	-.066	0	%100
48	M45	Z	-.114	-.114	0	%100
49	M46	X	-.066	-.066	0	%100
50	M46	Z	-.114	-.114	0	%100
51	M47	X	-.066	-.066	0	%100
52	M47	Z	-.114	-.114	0	%100
53	M44B	X	-.081	-.081	0	%100
54	M44B	Z	-.141	-.141	0	%100

Member Area Loads

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

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35	max	755.103	50	1088.937	21	1473.797	24	-.374	68	.469	50	.141	50
2		min	-305.43	28	371.435	67	11.83	6	-1.112	23	-.261	5	-.059	33
3	N36	max	306.643	33	1016.791	15	50.717	1	-.349	72	.651	9	.135	50
4		min	-757.029	50	349.698	73	-1536.32	19	-1.02	14	-.733	3	-.059	33
5	N69B	max	95.179	10	75.334	21	540.404	3	0	75	0	75	0	75
6		min	-96.826	4	24.299	67	-518.794	9	0	1	0	1	0	1
7	Totals:	max	907.554	10	2166.85	15	1227.331	1						
8		min	-907.555	4	749.541	73	-1227.327	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [...	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
1	FACE	PIPE_2.5	.131	8.854	50	.086	8.724		43	14558.792	50715	3.596	3.596	2...	H1-1b
2	M2	PIPE_2.5	.126	8.724	50	.059	8.724		20	14558.792	50715	3.596	3.596	2...	H1-1b
3	M13	PL5/8X3.5	.121	.422	32	.081	.422	y	8	66184.77	68906.25	.897	5.024	1...	H1-1b
4	M14	PL5/8X3.5	.171	0	36	.063	0	y	1	66184.77	68906.25	.897	5.024	1...	H1-1b
5	M15	PL5/8X3.5	.189	0	46	.140	.422	y	11	66184.77	68906.25	.897	5.024	1...	H1-1b
6	M16	PL5/8X3.5	.167	.422	18	.092	.422	y	6	66184.77	68906.25	.897	5.024	1...	H1-1b
7	OVP1	PIPE_2.0	.094	2.501	11	.049	0		26	31128.25	32130	1.872	1.872	2...	H1-1b
8	M18	PIPE_2.0	.081	2.501	12	.060	0		36	31128.25	32130	1.872	1.872	1...	H1-1b
9	M19	PIPE_2.0	.135	0	11	.074	0		23	31128.25	32130	1.872	1.872	1...	H1-1b

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [..	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn
10	OVP	PIPE_2.0	.129	2.501	8	.067	0		24	31128.25	32130	1.872	1.872	2....	H1-1b
11	M21	PL5/8X3.5	.252	.531	31	.043	.531	y	8	67591.76	68906.25	.897	5.024	1....	H1-1b
12	M22	PL5/8X3.5	.338	.531	19	.056	.531	y	6	67591.76	68906.25	.897	5.024	1....	H1-1b
13	M23	PL5/8X3.5	.263	.531	36	.041	.133	y	25	67591.76	68906.25	.897	5.024	1.6	H1-1b
14	M24	PL5/8X3.5	.329	.531	24	.076	.133	y	11	67591.76	68906.25	.897	5.024	1....	H1-1b
15	M25	SR_0.75	.000	0	75	.011	0		9	2863.936	13916.259	.174	.174	1....	H1-1a
16	M26	SR_0.75	.055	0	32	.008	0		3	2863.936	13916.259	.174	.174	1....	H1-1b*
17	M27	SR_0.75	.000	0	75	.012	0		3	2863.936	13916.259	.174	.174	1....	H1-1a
18	M28	SR_0.75	.063	4.167	41	.014	0		11	2863.936	13916.259	.174	.174	1....	H1-1b*
19	MP4A	PIPE_2.0	.044	5.667	15	.012	2.333		20	14916.096	32130	1.872	1.872	4....	H1-1b
20	MP3A	PIPE_2.0	.090	2.333	20	.021	5.667		12	14916.096	32130	1.872	1.872	4....	H1-1b
21	MP2A	PIPE_2.5	.112	2.333	19	.037	2.333		10	30038.461	50715	3.596	3.596	4....	H1-1b
22	MP1A	PIPE_2.0	.204	5.667	50	.028	2.333		50	14916.096	32130	1.872	1.872	4....	H1-1b
23	M44	SR_0.625	.035	1.667	7	.007	0		50	2158.269	9664.074	.101	.101	1	H1-1b
24	M45	SR_0.625	.031	1.667	8	.003	0		18	2158.269	9664.074	.101	.101	1....	H1-1b
25	M46	SR_0.625	.039	1.667	6	.004	0		21	2158.269	9664.074	.101	.101	1....	H1-1b
26	M47	SR_0.625	.030	1.667	3	.010	0		50	2158.269	9664.074	.101	.101	1....	H1-1b
27	M44B	PIPE_2.0	.211	8.206	4	.008	0		22	3652.032	32130	1.872	1.872	1....	H1-1b

VzW SMART Tool© Vendor

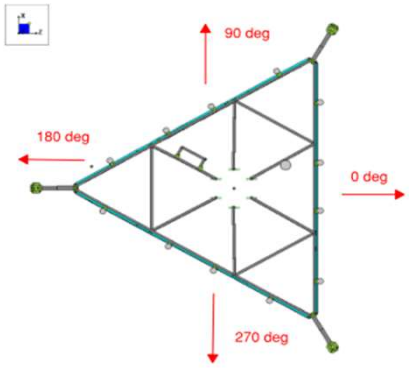
Client:	Verizon Wireless	Date:	10/27/2023
Site Name:	NEW FAIRFIELD CT		
MDG #:	5000384780		
Fuze ID #:	17123932	Page:	1

Version 1.01

I. Mount-to-Tower Connection Check

Custom Orientation Required	Yes

Nodes (labeled per Risa)	Orientation (per graphic of typical platform)
N36	0
N35	0



Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)* :	9.5
d_y (in) *(Delta Y of typ. bolt config. sketch)* :	3.5
Bolt Type:	A307
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	2.3
Required Shear Strength / bolt (kips):	0.3
Tensile Capacity / bolt (kips):	10.4
Shear Capacity / bolt (kips):	6.2
Bolt Overall Utilization:	**22.0%**
Tower Connection Baseplate Checks	No

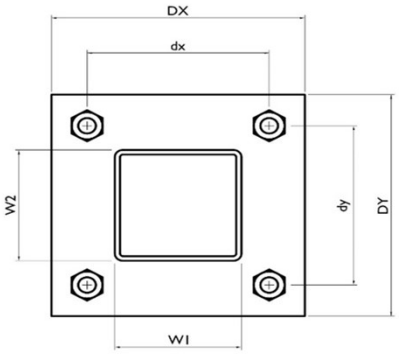


EXHIBIT 5

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Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:

88104

Site Name:

New Fairfield

Location:

New Fairfield, Connecticut

Tenants:

AT&T Mobility, T-Mobile, Dish Wireless, US Department of Homeland Security & Verizon Wireless

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

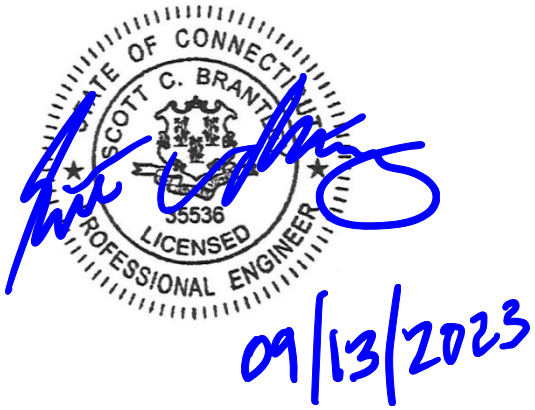
September 7th, 2023

25615 P-405483

Prepared By:

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

Approved By:



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Non-Ionizing Electromagnetic Radiation (NIER) Study

88104 New Fairfield
New Fairfield, 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 88104 New Fairfield is located at 22 Titicus Mtn. Rd., in New Fairfield, Connecticut at coordinates 41.450677, -73.515967. The support structure is a 189' Self-Support. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are AT&T Mobility (AT&T), T-Mobile (T-Mobile), Dish Wireless (Dish), the US Department of Homeland Security (DHS) & Verizon Wireless (VZW). A table listing all antennae and effective radiated power (ERP) levels that were used in this study may be found in Appendix 2, Antenna Inventory.

POWER DENSITY CALCULATIONS

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

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

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

- ATC furnished data and does not include other unidentified communication facilities.
- Load List at 88014 NEW FAIRFIELD.RF NIER Study 8/21/23.
- 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.

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APPENDIX 1 Site Photos

Aerial View of Site

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Appendix 2.1 Antenna Inventory

88104 New Fairfield

Antenna Inventory

Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azmiuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
1	T-Mobile	Commscope	VV-65-A-R1	1900/2100	060	25027	193
2	T-Mobile	Commscope	VV-65-A-R1	1900/2100	180	25027	193
3	T-Mobile	Commscope	VV-65-A-R1	1900/2100	300	25027	193
4	T-Mobile	RFS	APXVAARR24	600	060	11065	193
5	T-Mobile	RFS	APXVAARR24	600	180	11065	193
6	T-Mobile	RFS	APXVAARR24	600	300	11065	193
7	T-Mobile	Ericsson	Air 6449	2500/2600	060	30476	191
8	T-Mobile	Ericsson	Air 6449	2500/2600	180	30476	191
9	T-Mobile	Ericsson	Air 6449	2500/2600	300	30476	191
10	AT&T	Allgon	7770	1900/800	060	12099	160
11	AT&T	Allgon	7770	1900/800	180	12099	160
12	AT&T	Allgon	7770	1900/800	300	12099	160
13	AT&T	CCI	OPA65RBU6DA	1700/700	060	32834	160
14	AT&T	CCI	OPA65RBU6DA	1700/700	180	32834	160
15	AT&T	CCI	OPA65RBU6DA	1700/700	300	32834	160
16	AT&T	CCI	DMP65R-BU6DA	700/800/1800	060	39741	160
17	AT&T	CCI	DMP65R-BU6DA	700/800/1800	180	39741	160
18	AT&T	CCI	DMP65R-BU6DA	700/800/1800	300	39741	160
19	AT&T	CCI	HPA-65R-BUU-H6	700	060	6340	160
20	AT&T	CCI	HPA-65R-BUU-H6	700	180	6340	160
21	AT&T	CCI	HPA-65R-BUU-H6	700	300	6340	160
22	AT&T	Allgon	7770	1900/800	058	12099	155.8
23	AT&T	Allgon	7770	1900/800	189	12099	155.8
24	AT&T	Allgon	7770	1900/800	267	12099	155.8
25	AT&T	CCI	HPA-65R-BUU-H6	700	058	6340	155.2
26	AT&T	CCI	HPA-65R-BUU-H6	700	189	6340	155.2
27	AT&T	CCI	HPA-65R-BUU-H6	700	267	6340	155.2

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Appendix 2.2 Antenna Inventory

88014 New Fairfield

Antenna Inventory

Antenna #	Carrier	Antenna Manufacturer	Antenna Model	Frequency Band (MHz)	Azmiuth (°)	Effective Radiated Power (W)	Radiation Center (ft)
28	Verizon	Generic	Generic	Unknown	040	34000	146.3
29	Verizon	Generic	Generic	Unknown	140	34000	146.3
30	Verizon	Antel	LPA-80063/4CF	800	108	7655	146.3
31	Verizon	Antel	LPA-80063/4CF	800	043	7655	146.3
32	Verizon	Samsung	MT6407	3700/3800/3900	030	18286	146
33	Verizon	Samsung	MT6407	3700/3800/3900	150	18286	146
34	Verizon	Samsung	MT6407	3700/3800/3900	270	18286	146
35	Verizon	JMA	MX06FRO660-03	700/1900/2100	030	19623	146
36	Verizon	JMA	MX06FRO660-03	700/1900/2100	150	19623	146
37	Verizon	JMA	MX06FRO660-03	700/1900/2100	270	19623	146
38	Verizon	JMA	MX06FRO660-03	700/1900/2100	030	19623	146
39	Verizon	JMA	MX06FRO660-03	700/1900/2100	150	19623	146
40	Verizon	JMA	MX06FRO660-03	700/1900/2100	270	19623	146
41	Verizon	Commscope	SBNHH-1D65B	700/800/1900/2100	300	59387	145.9
42	Verizon	Commscope	SBNHH-1D65B	700/800/1900/2100	024	59387	145.9
43	Verizon	Commscope	SBNHH-1D65B	700/800/1900/2100	117	59387	145.9
44	Verizon	Commscope	SBNHH-1D65B	700/800/1900/2100	119	59387	145.9
45	Verizon	Commscope	SBNHH-1D65B	700/800/1900/2100	000	59387	145.9
46	Verizon	Commscope	SBNHH-1D65B	700/800/1900/2100	120	59387	145.9
47	Verizon	Antel	BXA-171063-8BF	1700/1800/1900/2100	258	30621	145.9
48	Verizon	Antel	BXA-70063-6CF	600/700/800	260	17905	145.9
49	Dish	JMA	MX08FRO665-21	600/1900/2100	000	48332	130
50	Dish	JMA	MX08FRO665-21	600/1900/2100	120	48332	130
51	Dish	JMA	MX08FRO665-21	600/1900/2100	240	48332	130
52	DHS	Andrew	DB616E-BC	100	000	300	80

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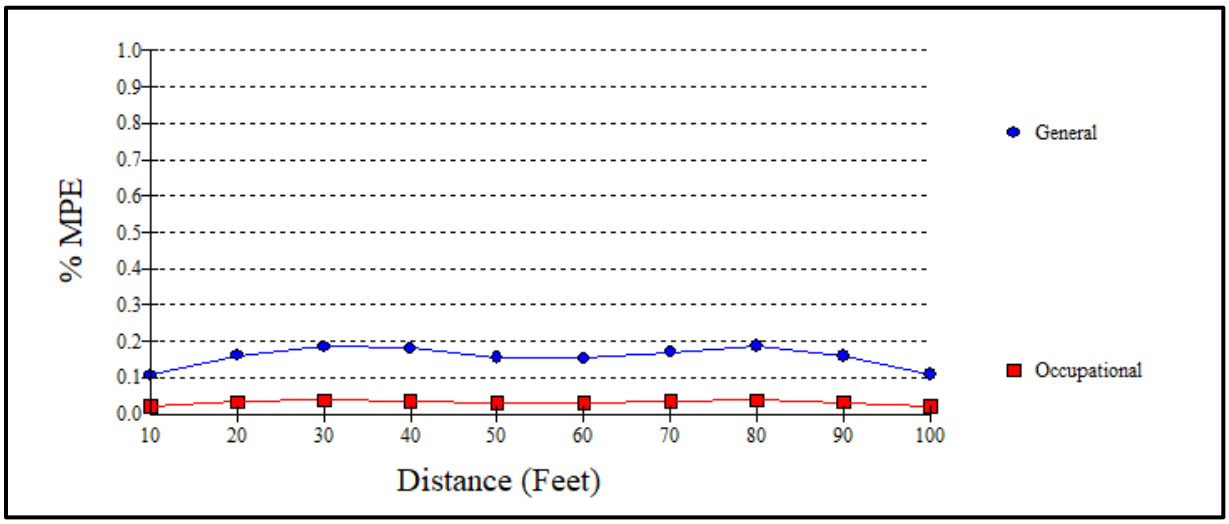
Appendix 3.1 MPE Limit Study



Maximum Power Density (@80'):	0.0012 mW/cm²
General Population MPE (@80'):	0.1856%
Occupational MPE (@80'):	0.2433%

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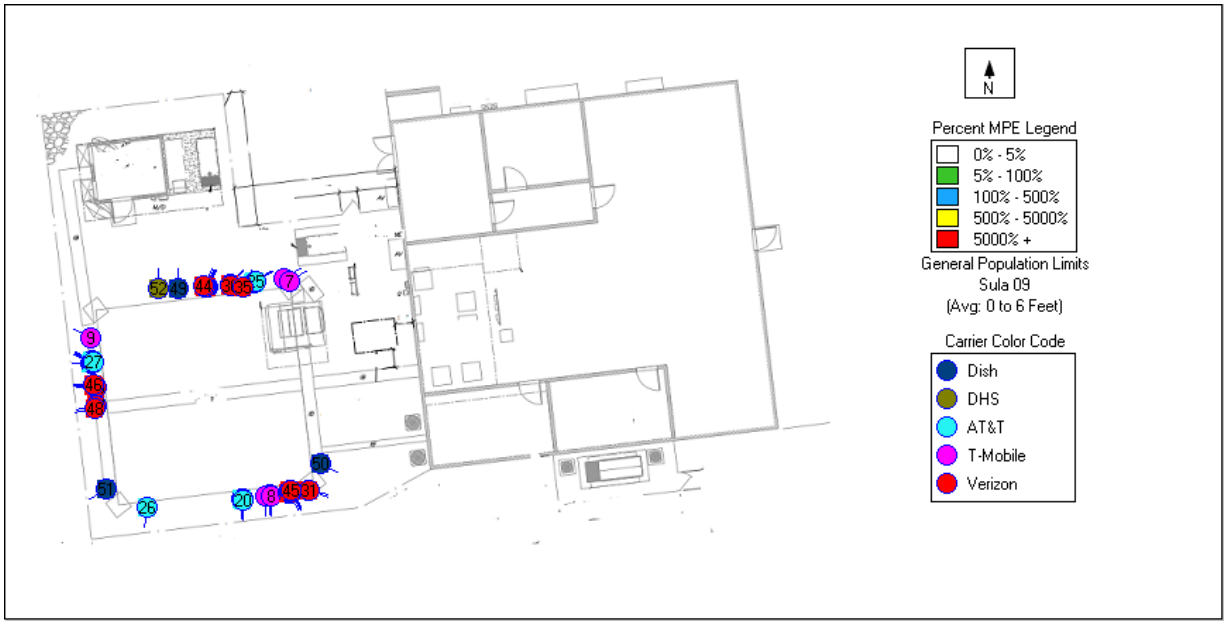
Appendix 3.2 MPE Limit Study



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Appendix 4 Information Pertaining to MPE Studies

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

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

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

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

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

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

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

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Appendix 5 MPE Standards Methodology

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

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

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

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

f = frequency

* = Plane-wave equivalent power density

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

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

f = frequency

* = Plane-wave equivalent power density

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

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

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

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

Cylindrical Model (Near Field Predictions)

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

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

Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

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

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

Where:

S = Power Density

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

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

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

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Spherical Model (Far Field Predictions)

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

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

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

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

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

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

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

EXHIBIT 6

ZONING COMMISSION
TOWN OF NEW FAIRFIELD
4 BRUSH HILL ROAD
NEW FAIRFIELD, CT 06812
203-746-8140 FAX 203-746-1250

February 4, 1998

Joel Rinebold
Executive Director
State of Connecticut
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

VIA FACSIMILE

RE: Omnipoint Communication Inc. notice of intent to modify an existing telecommunications facility at Titicus Mountain Road in New Fairfield, CT

Dear Mr. Rinebold;

The Zoning Commission is in receipt of your correspondence dated January 28, 1998, regarding the above mentioned project. At this time the Commission has had insufficient information supplied to make any determinations.

We will need to research how the tower was created as to whether it was legally created under zoning. There will be factual determinations made as to its zoning status. The Zoning Commission needs to review site plans showing related structures and appurtenances in order to ascertain the appropriate zoning decision as to the modifications and additions. We also request that the Siting Council obtain additional information as to the structural capability-integrity of the existing tower such as conformity with when it was originally constructed and conformity to current standards.

Currently the Zoning Commission has a temporary moratorium (attached)in effect on the installation of cellular and other wireless communication facilities. I have also attached a draft copy of proposed regulations which we expect to be adopted by April.

Sincerely,

Mara Porwitzki
Zoning Enforcement Officer

SITINGOMNIPOINT

EXHIBIT 7

UPS Delivery Notification, Tracking Number 1Z9Y45030307097504

UPS <pkginfo@ups.com>

Thu 12/7/2023 11:34 AM

To:Barbara Kassabian <bkassabian@clinellc.com>

Hello, your package has been delivered.

Delivery Date: Thursday, 12/07/2023
Delivery Time: 11:32 AM
Signed by: DONNA

CENTERLINE SITE ACQUISITION

Tracking Number:	**1Z9Y45030307097504**
Ship To:	AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 018011053 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14519495

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To:Barbara Kassabian <bkassabian@clinellc.com>

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Delivery Date: Thursday, 12/07/2023
Delivery Time: 11:50 AM
Signed by: TRISHA

CENTERLINE SITE ACQUISITION

Tracking Number:	**1Z9Y45030308297484**
Ship To:	PAT DEL MONACO 4 BRUSH HILL ROAD NEW FAIRFIELD, CT 068122619 US
Number of Packages:	1
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Hello, your package has been delivered.

Delivery Date: Thursday, 12/07/2023
Delivery Time: 11:50 AM
Signed by: TRISHA

CENTERLINE SITE ACQUISITION

Tracking Number:	**1Z9Y45030307796491**
Ship To:	CYNTHIA ROSS ZWEIG 4 BRUSH HILL ROAD NEW FAIRFIELD, CT 068122619 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	14519495

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