



October 24, 2024

Melanie A. Bachman
Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

**RE: Notice of Exempt Modification // Site: WINCHESTER CT 3 (ATC: 302506)
15 OAKDALE AVENUE, WINCHESTER/WINSTED, CT 06098
N 41.92168611 // W -73.04948611**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 125-ft level on the existing 180-ft Monopole tower, located at 15 Oakdale Avenue, Winchester/Winsted, CT. The tower is owned by American Tower. The property is owned by William P. Stow. The Council approved Verizon Wireless use of the existing tower on November 26, 1990. Verizon Wireless now intends to remove (12) remote radio heads (RRHs) and install munt modifications, (3) antennas for its 5G upgrade. Additionally, Verizon Wireless intends to install (6) new Remote Radio Heads (RRHs) and (3) diplexers; altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby).

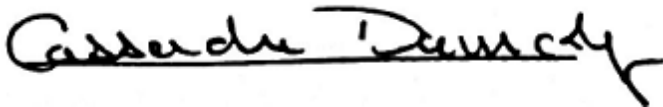
Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Todd Arcelaschi, the Mayor of Winchester, its Assistant Planner / Zoning Officer, Geoffrey Green, American Tower, the tower owner, and the property owner, William P. Stow.

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 October 17, 2024 by American Tower Engineering Services, Inc., a structural analysis dated October 6, 2024 by A.T. Engineering Service, LLC, and a structural mount analysis by Colliers Engineering & Design, dated June 10, 2024, and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

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 analyses by A.T. Engineering Service, PLLC, dated October 6, 2024 and structural mount analyses by Colliers Engineering & Design, dated June 10, 2024 pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final mount modification and construction drawings dated signed and stamped October 17, 2024.

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,



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

Attachments

Cc: Todd Arcelaschi, the Mayor of Winchester
Town Hall, 338 Main Street, Winsted, CT 06098

Geoffrey Green- Assistant Planner/ Zoning Officer
Town Hall, 2nd Floor Francis P. Hicks Room, 338 Main Street, Winchester, CT 06098

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

William P Stow Trustee - as property owner
c/o American Tower #302506
PO Box 723597
Atlanta, GA 031139

DOCKET NO. 138 - An application of SNET Cellular, Inc., for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of cellular facilities in the Towns of Plymouth, Harwinton, Winchester, and New Milford, Connecticut.

Connecticut

Siting

Council

November 26, 1990

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council finds that the effects associated with the construction, operation, and maintenance of four cellular telecommunications towers and associated equipment at the proposed Plymouth, Harwinton, New Milford, and alternate Winchester sites including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife need not be in conflict either alone or cumulatively with other effects, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application, and therefore directs that a Certificate of Environmental Compatibility and Public Need (Certificate), as provided by section 16-50k of the Connecticut General Statutes (CGS), be issued to SNET Cellular Inc., for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed Plymouth, Harwinton, New Milford, and alternate Winchester sites.

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

1. The facilities shall be constructed in accordance with the State of Connecticut Basic Building Code.
2. The self-supporting monopole towers shall be no taller than necessary to provide the proposed communication service and in no event shall the Plymouth, Harwinton, and Winchester tower structures exceed 192-feet or the New Milford tower structure exceed 162 feet above ground level (AGL), including antennas and appurtenances.
3. The Certificate Holder shall prepare a Development and Management (D&M) Plan, for approval by the Council, for these sites in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies (RSA). The D&M Plan shall include detailed plans for the towers, tower pedestals, tower foundations, soil boring reports, antenna structures, equipment buildings, access roads, security fences, erosion and sedimentation control plans

consistent with the Connecticut Guidelines of Soil Erosion and Sedimentation Control, and landscaping plans where necessary to screen the equipment building from adjacent land uses.

At the proposed Harwinton site, the accessway shall be designed to avoid a direct sight-line of the entire tower structure from the adjacent Fowler residence. To further mitigate the visibility of the facility, the tower's site shall be moved as close to the electric transmission line right-of-way as safety clearances allow.

At the alternate Winchester site, the Certificate Holder shall design the accessway to avoid a direct sight-line from the northern end of Oakdale Avenue. Prior to construction, the Certificate Holder shall secure all necessary permits and approvals to construct a crossing of the Tennessee Gas Company's underground gas transmission line. Prior to any necessary blasting activities, the Certificate Holder shall secure all necessary permits and shall conduct such blasting in accordance with State regulations. Copies of all permits and approvals shall be forwarded to the Council immediately upon receipt.

4. The Certificate Holder shall comply with any existing and future radio frequency (RF) standard promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facilities granted in this Decision and Order shall be brought into compliance with such standards.
5. The Certificate Holder shall provide the Council a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power densities above the levels originally calculated and provided in the application.
6. The Certificate Holder shall permit public or private entities to share space on the proposed towers for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
7. If the facilities do not initially provide, or permanently cease to provide cellular service following completion of construction, this Decision and Order shall be void, and the tower(s) and all associated equipment shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.
8. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

Pursuant to Section 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in The New Milford Times, The Bristol Press, The Registrar-Citizen, and The Danbury News-Times.

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

The parties to this proceeding are:

(PARTIES)

SNET Cellular, Inc.

(ITS REPRESENTATIVES)

Peter J. Tyrrell
Senior Attorney
SNET Cellular, Inc.
227 Church Street
Room 1021
New Haven, CT 06506

(INTERVENORS)

Pikeville Cellular Partnership

Charles Wolf, Esq.
Robinson & Cole
One Commercial Plaza
Hartford, CT 06103-3597

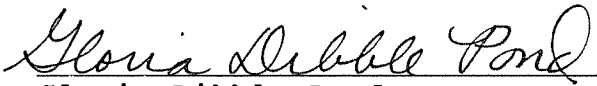
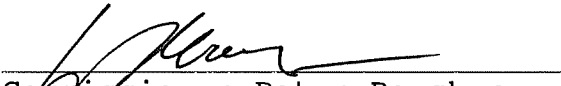


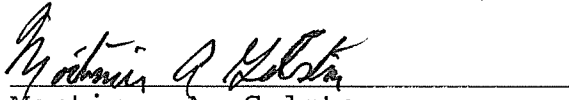

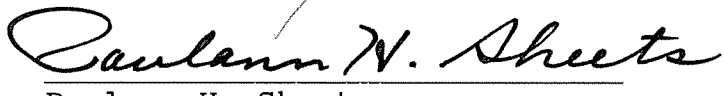
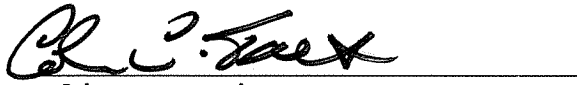
TEF:bw

4886E-1-3

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 138 or read the record thereof, and that we voted as follows:

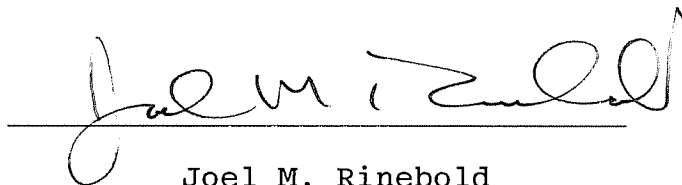
Dated at New Britain, Connecticut the 26 day of November, 1990.

| <u>Council Members</u> | <u>Vote Cast</u> |
|--|------------------|
|  Gloria Dibble Pond Chairperson | YES |
|  Commissioner Peter Boucher Designee: Mark Marcus | YES |
|  Commissioner Leslie Carothers Designee: Brian Emerick | YES |
|  Harry E. Covey | YES |
|  Mortimer A. Gelston | YES |
|  Daniel P. Lynch, Jr. | YES |
|  Paulann H. Sheets | YES |
| William H. Smith | ABSENT |
|  Colin C. Tait | YES |

STATE OF CONNECTICUT)
 :
ss. New Britain, Connecticut
COUNTY OF HARTFORD)

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

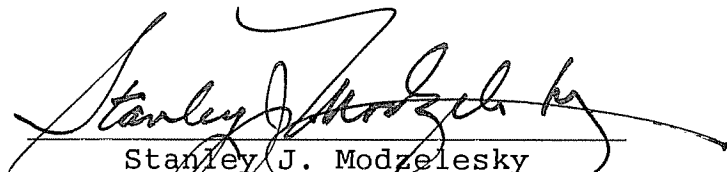
ATTEST:

A handwritten signature in dark ink, appearing to read "Joel M. Rinebold", is written over a horizontal line.

Joel M. Rinebold
Executive Director
Connecticut Siting Council

I certify that a copy of the Findings of Fact, Opinion, and Decision and Order in Docket No. 138 have been forwarded by Certified First Class Return Receipt Requested mail on December 3, 1990, to all parties of record as listed on the attached service list, dated August 22, 1990.

ATTEST:

A handwritten signature in dark ink, appearing to read "Stanley J. Modzelesky", is written over a horizontal line.

Stanley J. Modzelesky
Executive Assistant
Connecticut Siting Council

Date: August 22, 1990

Docket No. 138

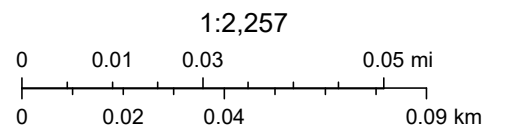
LIST OF PARTIES AND INTERVENORS - SERVICE LIST

| Status Granted | Status Holder (name, address & phone number) | Representative (name, address & phone number) |
|---|--|---|
| Party <input checked="" type="checkbox"/> | SNET Cellular, Inc. | Peter J. Tyrrell Senior Attorney SNET Cellular, Inc. 227 Church Street Room 1021 New Haven, CT 06506 |
| Intervenor <input type="checkbox"/> | | |
| Party <input type="checkbox"/> | Pikeville Cellular Partnership | Charles Wolf, Esq. Robinson & Cole One Commercial Plaza Hartford, CT 06103-3597 |
| Intervenor <input checked="" type="checkbox"/> | | |
| Party <input type="checkbox"/> | | |
| Intervenor <input type="checkbox"/> | | |

Oakdale Ave, Stow



October 24, 2024



108 OAKDALE AVE

| | | | |
|------------|-----------------|----------------|------------------------|
| Location | 108 OAKDALE AVE | Mblu | 028/ 151/ 002-1/ / |
| Acct# | 103466 | Owner | STOW WILLIAM P TRUSTEE |
| Assessment | \$178,640 | Appraisal | \$255,200 |
| PID | 4991 | Building Count | 1 |

Current Value

| Appraisal | | | |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land | Total |
| 2023 | \$45,600 | \$209,600 | \$255,200 |
| Assessment | | | |
| Valuation Year | Improvements | Land | Total |
| 2023 | \$31,920 | \$146,720 | \$178,640 |

Owner of Record

| | | | |
|----------|----------------------------|-------------|------------|
| Owner | STOW WILLIAM P TRUSTEE | Sale Price | \$0 |
| Co-Owner | | Certificate | |
| Address | C/O AMERICAN TOWER #302506 | Book & Page | 0411/0779 |
| | PO BOX 723597 | Sale Date | 03/12/2013 |
| | ATLANTA, GA 31139 | Instrument | 29 |

Ownership History

| Ownership History | | | | | |
|----------------------------|------------|-------------|-------------|------------|------------|
| Owner | Sale Price | Certificate | Book & Page | Instrument | Sale Date |
| STOW WILLIAM P TRUSTEE | \$0 | | 0411/0779 | 29 | 03/12/2013 |
| STOW WILLIAM P & RICHARD D | \$0 | | 00260/0171 | | 11/16/1995 |

Building Information

| | |
|------------------------|----------|
| Building 1 : Section 1 | |
| Year Built: | 2004 |
| Living Area: | 360 |
| Replacement Cost | |
| Less Depreciation: | \$17,400 |
| Building Attributes | |

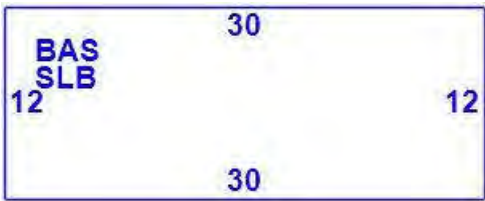
| Field | Description |
|------------------|----------------|
| Style: | Warehse Prefab |
| Model | Ind/Comm |
| Grade | Average |
| Stories: | 1 |
| Occupancy | 1.00 |
| Exterior Wall 1 | Pre-cast Concr |
| Exterior Wall 2 | |
| Roof Structure | Flat |
| Roof Cover | Metal/Tin |
| Interior Wall 1 | Minimum |
| Interior Wall 2 | |
| Interior Floor 1 | Concrete Slab |
| Interior Floor 2 | |
| Heating Fuel | Gas/Oil |
| Heating Type | Hot Air-no Duc |
| AC Type | None |
| Struct Class | |
| Bldg Use | Tele Tower |
| Total Rooms | |
| Total Bedrms | 00 |
| Total Baths | 0 |
| 1st Floor Use: | 106I |
| Heat/AC | NONE |
| Frame Type | MASONRY |
| Baths/Plumbing | NONE |
| Ceiling/Wall | NONE |
| Rooms/Prtns | LIGHT |
| Wall Height | 12.00 |
| % Comn Wall | |

Building Photo



(https://images.vgsi.com/photos/WinchesterCTPhotos/\0010\IMG_7508_10)

Building Layout



(ParcelSketch.ashx?pid=4991&bid=5553)

| Building Sub-Areas (sq ft) | | | Legend |
|----------------------------|-------------|------------|-------------|
| Code | Description | Gross Area | Living Area |
| BAS | First Floor | 360 | 360 |
| SLB | Slab | 360 | 0 |
| | | 720 | 360 |

Extra Features

| Extra Features | | | | Legend |
|----------------|-------------|------|-------|--------|
| Code | Description | Size | Value | Bldg # |
| | | 0.00 | | 1 |

Land

| Land Use | | Land Line Valuation | |
|----------|------|---------------------|------|
| Use Code | 4310 | Size (Acres) | 3.39 |

Description

Zone

Alt Land Appr

Category

Tele Tower

RR

No

Depth

Assessed Value

Appraised Value

\$146,720

\$209,600

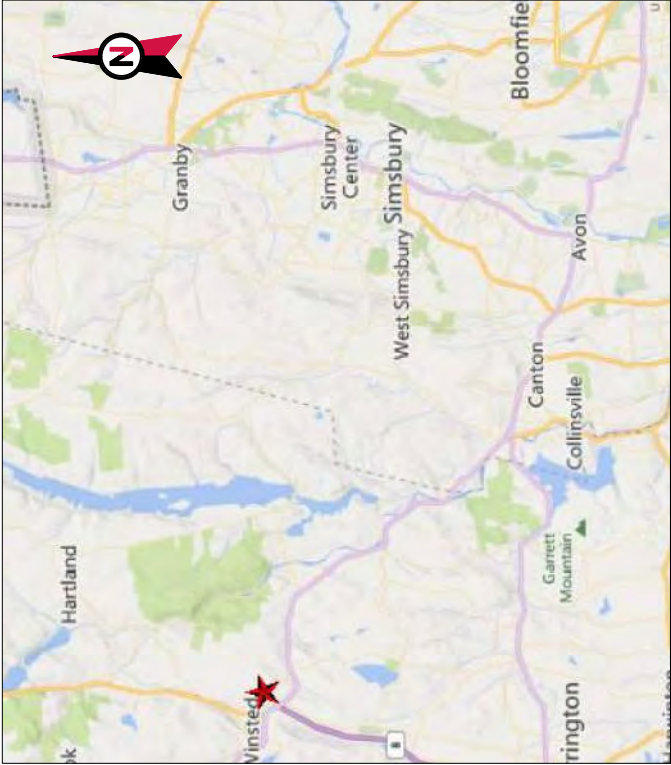
Outbuildings

| Outbuildings | | | | | | Legend |
|--------------|----------------|----------|-----------------|-------------|---------|--------|
| Code | Description | Sub Code | Sub Description | Size | Value | Bldg # |
| SHD8 | Shd Com Mas | | | 252.00 S.F. | \$6,700 | 1 |
| SHD8 | Shd Com Mas | | | 252.00 S.F. | \$6,700 | 1 |
| FN4 | Fence-8' Chain | | | 380.00 L.F. | \$9,400 | 1 |
| | | | | 0.00 | | 1 |
| SHD8 | Shd Com Mas | | | 336.00 S.F. | \$5,400 | 1 |


Valuation History

| Appraisal | | | |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land | Total |
| 2023 | \$45,600 | \$209,600 | \$255,200 |
| 2022 | \$45,600 | \$209,600 | \$255,200 |
| 2021 | \$34,900 | \$109,600 | \$144,500 |

| Assessment | | | |
|----------------|--------------|-----------|-----------|
| Valuation Year | Improvements | Land | Total |
| 2023 | \$31,920 | \$146,720 | \$178,640 |
| 2022 | \$31,920 | \$146,720 | \$178,640 |
| 2021 | \$24,430 | \$76,720 | \$101,150 |



VICINITY MAP




AMERICAN TOWER®

ATC SITE NAME: WINCHESTER CT 3
ATC SITE NUMBER: 302506
VERIZON SITE NAME: WINCHESTER E CT
VERIZON SITE NUMBER: 5000246826
VERIZON FUZE PID: 16272064
SITE ADDRESS: 15 OAKDALE AVENUE
WINSTED, CT 06098



LOCATION MAP



AMERICAN TOWER®

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

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

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| △ | FOR CONSTRUCTION | KPF | 10/09/24 |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |


ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3


VERIZON SITE NAME:
WINCHESTER E CT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

SEAL:



Scott A. Wirgau
by Scott Wirgau
Digitally signed
Date: 2024.10.17 13:28:36 -04'00'



| | |
|--------------|-----------------|
| ATC JOB NO: | 14867785_G0 |
| CUSTOMER ID: | WINCHESTER E CT |
| CUSTOMER #: | 5000246826 |

TITLE SHEET

| | |
|------------------------|----------------|
| SHEET NUMBER: G-001 | REVISION: 0 |
|------------------------|----------------|

VERIZON AMENDMENT DRAWINGS

| COMPLIANCE CODE | | PROJECT SUMMARY | PROJECT DESCRIPTION | SHEET INDEX | | | | | | | | |
|--|---|--|--|--|---|--------------------------------|------|----------|-----|--|--|--|
| ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 2021 IBC NATIONAL ELECTRICAL CODE (NFPA 70, NEC 2020 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE, IMC PORTION (IMC 2021 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE, IPC PORTION (IPC 2021 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE, IECC PORTION (IECC 2021 W/ AMND) PART III OF THE 2022 CT STATE FIRE SAFETY CODE (IFC 2021 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE, IEBC PORTION (IEBC 2021 W/ AMND) 2022 CONNECTICUT STATE BUILDING CODE 2022 CONNECTICUT STATE BUILDING CODE, IRC PORTION (IRC 2021 W/ AMND) CONNECTICUT STATE FUEL GAS CODE (IFGC 2021 W/ AMND) | <div>PROJECT TEAM</div> <div><div>TOWER OWNER: AMERICAN TOWER 10 PRESIDENTIAL WAY WOBBURN, MA 01801</div><div>ENGINEER: A.T. ENGINEERING SERVICES LLC 1 FENTON MAIN, STE 300 CARY, NC 27511</div><div>PROPERTY OWNER: RICHARD D. STOW 52 MILLSSTONE RD WILTON, CT 06897</div></div> | <div>SITE ADDRESS: 15 OAKDALE AVENUE WINSTED, CT 06098 COUNTY: LITCHFIELD</div> <div>REGISTERED COORDINATES: LATITUDE: 41.921688611 41° 55' 18.07" N LONGITUDE: -73.04948611 73° 2' 58.15" W GROUND ELEVATION: 1073' AMSL</div> | THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: REMOVE (12) RRH(s) INSTALL MOUNT MODIFICATIONS, (3) ANTENNA(s), (6) RRH(s), AND (3) DIPLEXER(s) EXISTING (12) ANTENNA(s), (1) OVP(s), AND (6) 1 5/8" COAX AND (1) 1 5/8" 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). | SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: | | | |
| | | | | | G-001 | TITLE SHEET | 0 | 10/09/24 | KPF | | | |
| | | | | | G-002 | GENERAL NOTES | 0 | 10/09/24 | KPF | | | |
| | | | | | C-101 | DETAILED SITE PLAN | 0 | 10/09/24 | KPF | | | |
| | | | | | C-201 | TOWER ELEVATION | 0 | 10/09/24 | KPF | | | |
| | | | | | C-401 | ANTENNA INFORMATION & SCHEDULE | 0 | 10/09/24 | KPF | | | |
| | | | | | C-501 | CONSTRUCTION DETAILS | 0 | 10/09/24 | KPF | | | |
| | | | | | E-501 | GROUNDING DETAILS | 0 | 10/09/24 | KPF | | | |
| | | | | | | SUPPLEMENTAL SHEETS (4 PAGES) | | | | | | |
| | | | | | | | | | | | | |
| CONTRACTOR PMI REQUIREMENTS | | | | | | | | | | | | |
| | | | | PMI ACCESSED AT: | HTTPS://PMI.VZWSMART.COM | | | | | | | |
| | | | | SMART TOOL VENDOR PROJECT NUMBER: | 10237228 | | | | | | | |
| | | | | VZW LOCATION CODE (PSLC): | 5000246826 | | | | | | | |
| | | | | ***PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT | | | | | | | | |
| | | | | MOUNT MODIFICATION REQUIRED: | YES | | | | | | | |
| | | | | VZW APPROVED SMART KIT VENDORS: | REFER TO MOUNT MODIFICATION DRAWINGS PAGES FOR VZW SMART KIT APPROVED VENDORS | | | | | | | |

GENERAL CONSTRUCTION NOTES:

1.

OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
2.

A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/COLLOCATE ONLY)

B. AC/TELCO INTERFACE BOX (PPC)

C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/COLLOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOF TOP 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

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 CARBONS, 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 ANSIE/A11A-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.

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)
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 MANUFACTURERS 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 AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO, FALL PROTECTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
31.

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

ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. IF 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 48 HOURS BEFORE NOTIFIED INSURED, STORED, COGNATE, PROTECTED AND MAINTAINED BY THE CONTRACTOR WITH ALL NECESSARY PRECAUTIONS 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 IN ANTENNA INSTALLATION. CONTRACTOR TERMS OF COORDINATION, SITE ACCESS, ERECTION, SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.

B.

INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.

C.

INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D.

INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE

E.

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

2.

ANTENNA AND COAXIAL/HYBRID CABLE GROUNDING:

A.

ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
- ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- Copyright © 2024 ATC IP LLC, All Rights Reserved.
- AMERICAN TOWER®

A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN

SUITE 300

CARY, NC 27511

PHONE: (919) 468-0112

PEC.0001553
- THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.
- | REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| /A/ | FOR CONSTRUCTION | KPF | 10/09/24 |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |
- ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3

VERIZON SITE NAME:
WINCHESTER E CT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098
- SEAL:
-
- Digitally Signed: 2024-10-17
- | | |
|--------------|-----------------|
| ATC JOB NO: | 14867785_G0 |
| CUSTOMER ID: | WINCHESTER E CT |
| CUSTOMER #: | 5000246826 |
- GENERAL NOTES
- | | |
|-------------------------------|-----------------------|
| SHEET NUMBER: G-002 | REVISION: 0 |
|-------------------------------|-----------------------|

SITE PLAN NOTES:

1.

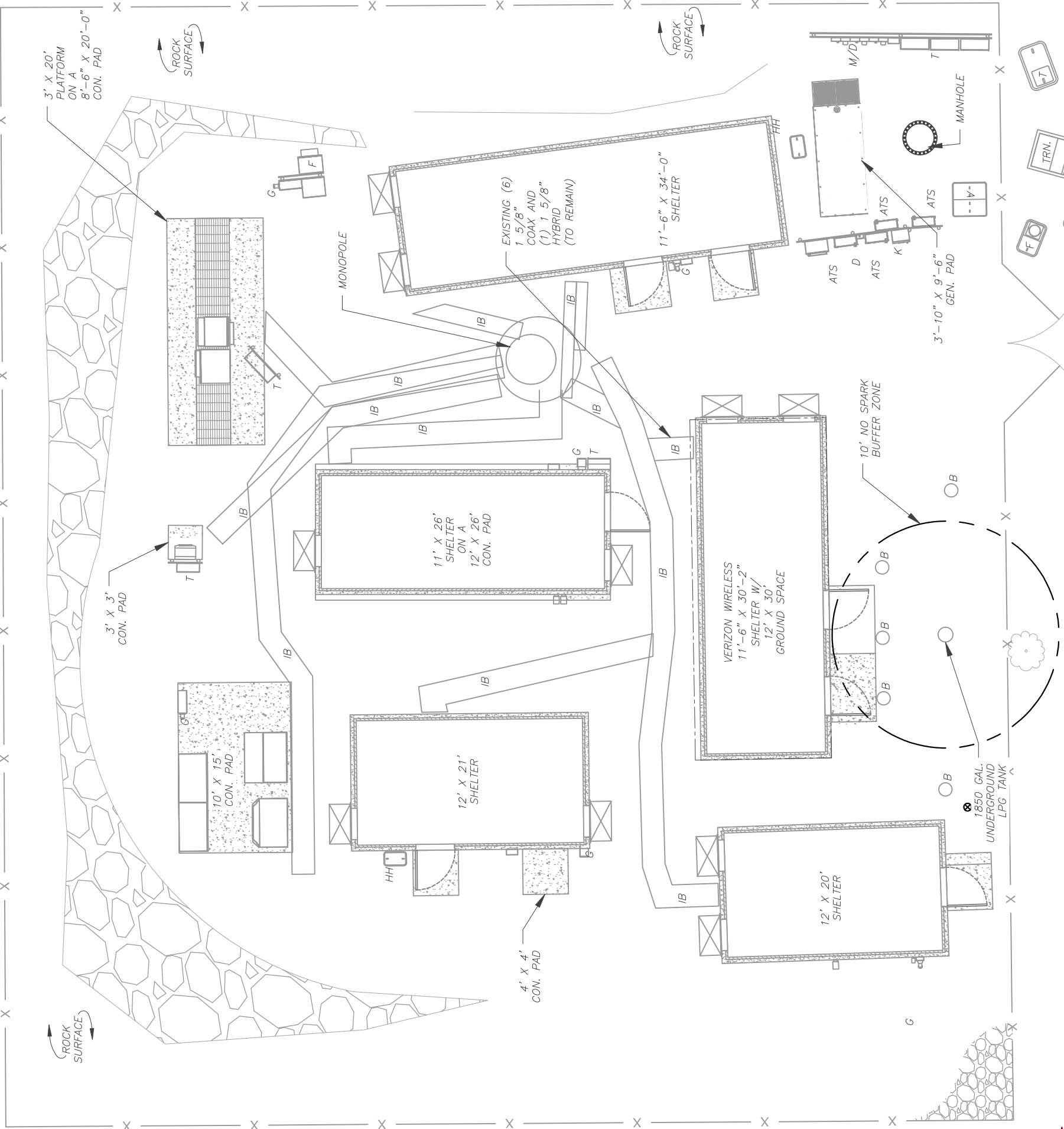
THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2.

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



AMERICAN TOWER®

A.T. ENGINEERING SERVICES LLC

1 FENTON MAIN

SUITE 300

CARY, NC 27511

PHONE: (919) 468-0112

PEC.0001553

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

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| △ | FOR CONSTRUCTION | KPF | 10/09/24 |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |

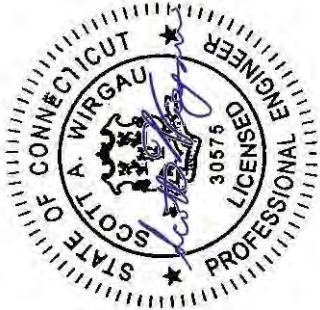
ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3

VERIZON SITE NAME:
WINCHESTER E CT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

SEAL:



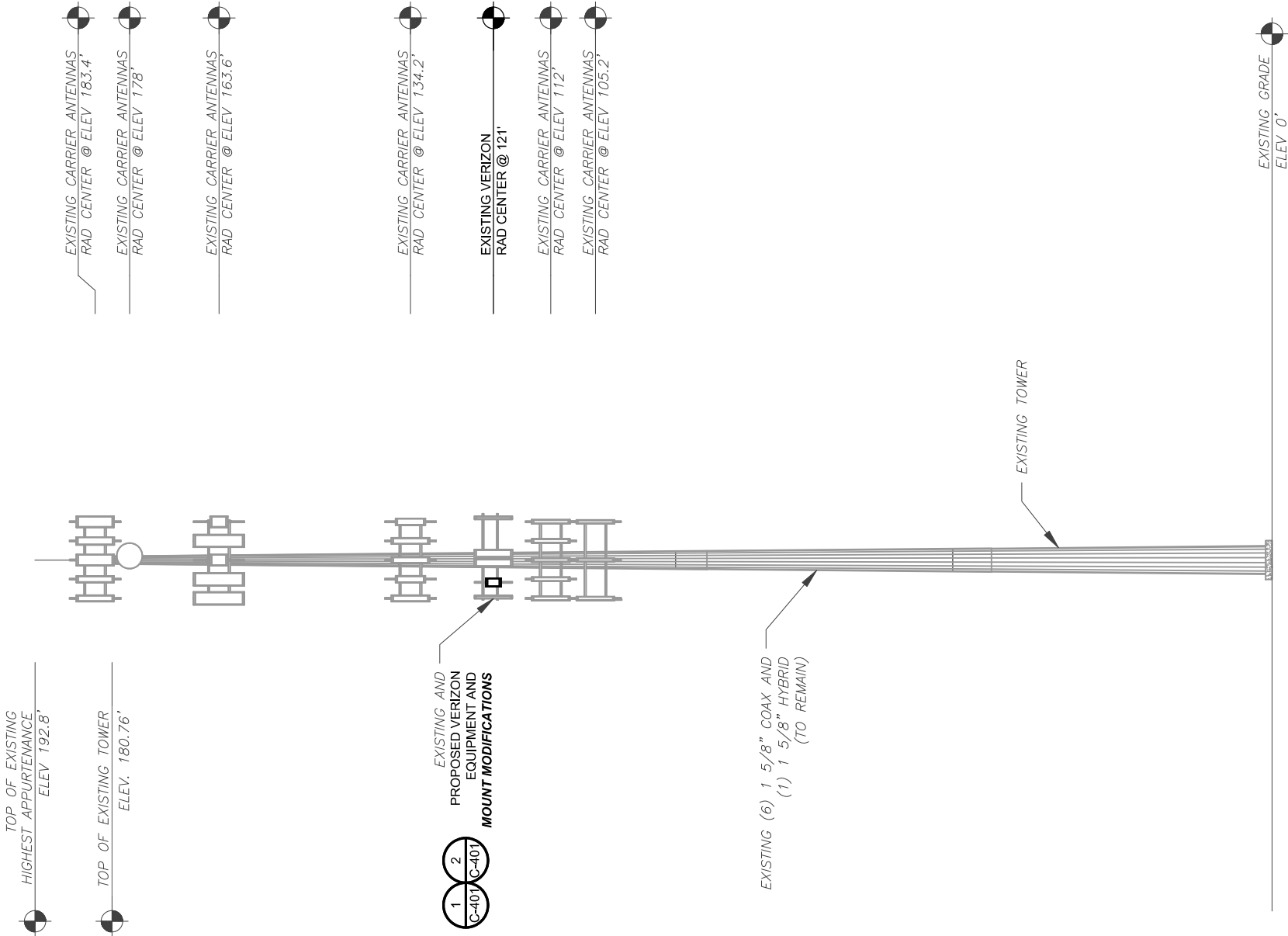
Digitally Signed: 2024-10-17

| | |
|--------------|-----------------|
| verizon | |
| ATC JOB NO: | 14867785_GO |
| CUSTOMER ID: | WINCHESTER E CT |
| CUSTOMER #: | 5000246826 |

DETAILED SITE PLAN

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-101 | 0 |

PER MOUNT ANALYSIS COMPLETED BY
COLLIERS, DATED JUNE 10, 2024, THE EXISTING
MOUNT MUST BE MODIFIED TO ADEQUATELY
SUPPORT THE PROPOSED LOADING. THE MOUNT
MODIFICATION DETAILED AT THE END OF THIS
PLAN SET, MUST BE INSTALLED PRIOR TO THE
INSTALLATION OF THE PROPOSED ANTENNAS
AND OTHER EQUIPMENT.



1 TOWER ELEVATION
SCALE: N.T.S.

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

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



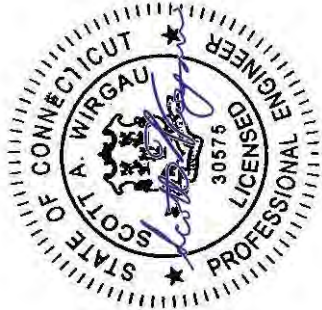
AMERICAN TOWER®
A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

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

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| △ | FOR CONSTRUCTION | KPF | 10/09/24 |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |

ATC SITE NUMBER:
302506
ATC SITE NAME:
WINCHESTER CT 3
VERIZON SITE NAME:
WINCHESTER E CT
SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

SEAL:

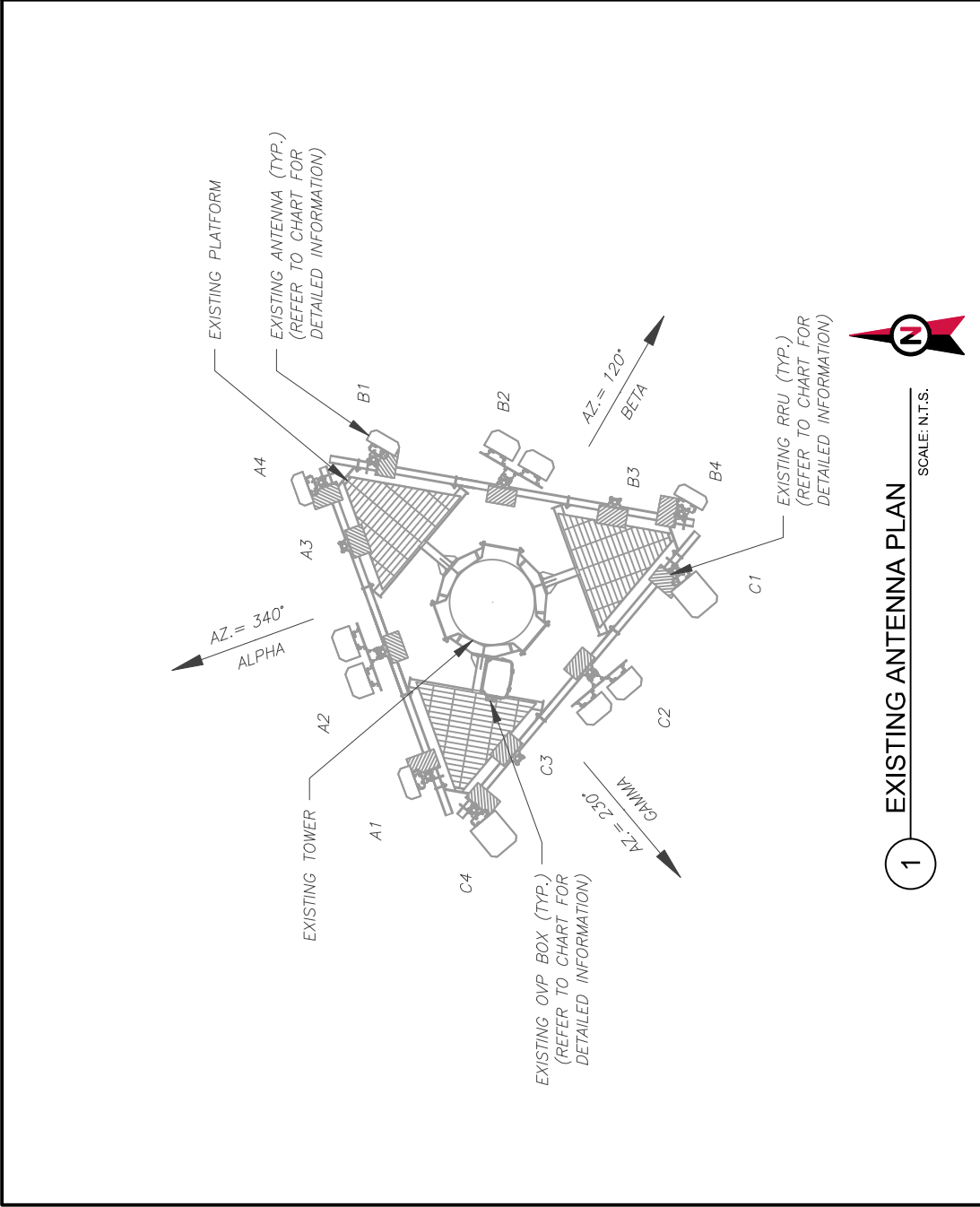


Digitally Signed: 2024-10-17

| | |
|--------------|-----------------|
| verizon | |
| ATC JOB NO: | 14867785_G0 |
| CUSTOMER ID: | WINCHESTER E CT |
| CUSTOMER #: | 5000246826 |

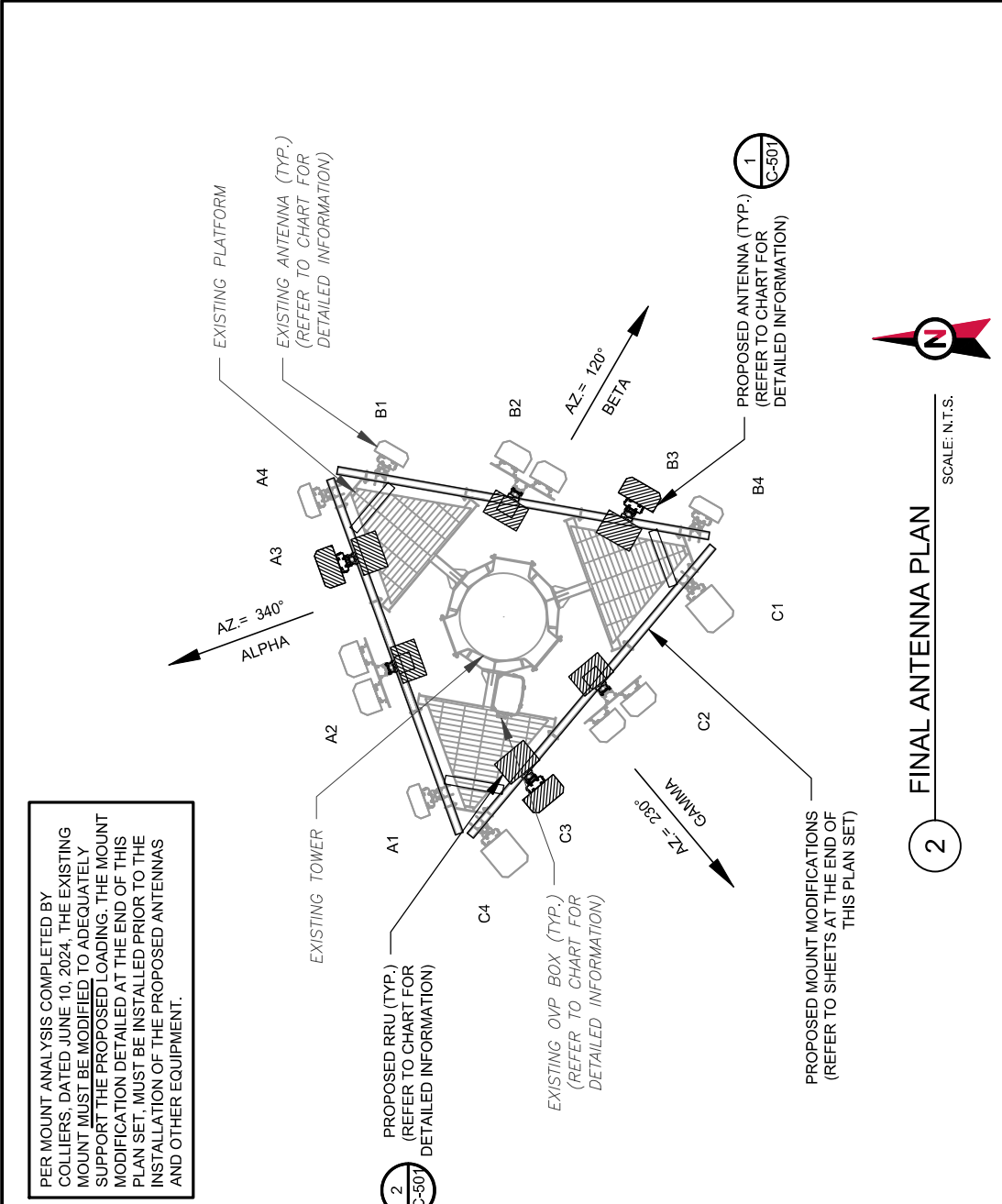
TOWER ELEVATION

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



1 EXISTING ANTENNA PLAN

SCALE: N.T.S.



2 FINAL ANTENNA PLAN

SCALE: N.T.S.



| EXISTING ANTENNA SCHEDULE | | | | ANTENNA SUMMARY | | | NON ANTENNA SUMMARY | |
|---------------------------|-----|------|-----|------------------|----------------------|--------|------------------------------------|--------|
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | | 340° | A1 | LPA-80080/6CF_ | - | RMV | UHIE B66A RRH4X45 | RMV |
| | | | A2 | (2) JAHH-65B-R3B | LTE 700/850/1900/AWS | RMV | AHCA RRH 4T4R B5 160W | RMV |
| | | | A3 | - | - | RMV | B25 RRH4X30 | RMV |
| | | | A4 | LPA-80080/6CF_ | - | RMV | UHIE B66A RRH4X45 | RMV |
| BETA | | 120° | B1 | LPA-80063/6CF_ | - | RMV | UHIE B66A RRH4X45 | RMV |
| | | | B2 | (2) JAHH-65B-R3B | LTE 700/850/1900/AWS | RMV | AHCA RRH 4T4R B5 160W | RMV |
| | | | B3 | - | - | RMV | B25 RRH4X30 | RMV |
| | | | B4 | LPA-80063/6CF_ | - | RMV | UHIE B66A RRH4X45 | RMV |
| GAMMA | | 230° | C1 | LPA-80080/6CF_ | - | RMV | UHIE B66A RRH4X45 | RMV |
| | | | C2 | (2) JAHH-65B-R3B | LTE 700/850/1900/AWS | RMV | AHCA RRH 4T4R B5 160W | RMV |
| | | | C3 | - | - | RMV | B25 RRH4X30 | RMV |
| | | | C4 | LPA-80080/6CF_ | - | RMV | UHIE B66A RRH4X45 | RMV |

| FINAL ANTENNA SCHEDULE | | | | ANTENNA SUMMARY | | | NON ANTENNA SUMMARY | |
|------------------------|------|------|-----|------------------|----------------------|--------|--|--------|
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | 121° | 340° | A1 | LPA-80080/6CF_ | - | RMV | - | - |
| | | | A2 | (2) JAHH-65B-R3B | LTE 700/850/1900/AWS | RMV | CBC78T-DS-43-2X B2/B66A RRH ORAN (RF4439D-25A) | ADD |
| | | | A3 | MT6413-77A | 5G CBAND | ADD | RF4461D-13A | ADD |
| | | | A4 | LPA-80080/6CF_ | - | RMV | - | - |
| BETA | 121° | 120° | B1 | LPA-80063/6CF_ | - | RMV | - | - |
| | | | B2 | (2) JAHH-65B-R3B | LTE 700/850/1900/AWS | RMV | CBC78T-DS-43-2X B2/B66A RRH ORAN (RF4439D-25A) | ADD |
| | | | B3 | MT6413-77A | 5G CBAND | ADD | RF4461D-13A | ADD |
| | | | B4 | LPA-80063/6CF_ | - | RMV | - | - |
| GAMMA | 121° | 230° | C1 | LPA-80080/6CF_ | - | RMV | - | - |
| | | | C2 | (2) JAHH-65B-R3B | LTE 700/850/1900/AWS | RMV | CBC78T-DS-43-2X B2/B66A RRH ORAN (RF4439D-25A) | ADD |
| | | | C3 | MT6413-77A | 5G CBAND | ADD | RF4461D-13A | ADD |
| | | | C4 | LPA-80080/6CF_ | - | RMV | - | - |

- NOTES
- GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.
 - GC TO CAP ALL UNUSED PORTS.
 - GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- STATUS ABBREVIATIONS
- RMV: TO BE REMOVED
RMV+: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED
- CABLE LENGTHS FOR JUMPERS
JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

| EXISTING FIBER DISTRIBUTION / OVP BOX | | EXISTING CABLING SUMMARY | |
|---------------------------------------|--------|---------------------------------------|--------|
| MODEL NUMBER | STATUS | CABLE QTY, SIZE, TYPE | STATUS |
| RCMDC-6627-PF-48 | RMV | (6) 1 5/8" COAX AND (1) 1 5/8" HYBRID | RMV |
| - | RMV | ----- | RMV |

3 EQUIPMENT SCHEDULES

| FINAL FIBER DISTRIBUTION / OVP BOX | | FINAL CABLING SUMMARY | |
|------------------------------------|--------|---------------------------------------|--------|
| MODEL NUMBER | STATUS | CABLE QTY, SIZE, TYPE | STATUS |
| RCMDC-6627-PF-48 | RMV | (6) 1 5/8" COAX AND (1) 1 5/8" HYBRID | RMV |
| - | ADD | ---- | ADD |



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

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

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| △ | FOR CONSTRUCTION | KPF | 10/09/24 |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |

ATC SITE NUMBER:
302506
ATC SITE NAME:
WINCHESTER CT 3
VERIZON SITE NAME:
WINCHESTER E CT
SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

SEAL:



Digitally Signed: 2024-10-17

| | |
|--------------|-----------------|
| ATC JOB NO: | 14867785_G0 |
| CUSTOMER ID: | WINCHESTER E CT |
| CUSTOMER #: | 5000246826 |

| ANTENNA INFORMATION & SCHEDULE | |
|--------------------------------|-----------------------|
| SHEET NUMBER: C-401 | REVISION: 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.

Copyright © 2024 ATC IP LLC. All Rights Reserved.

AMERICAN TOWER®

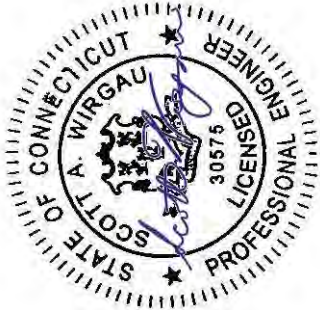
A.T. ENGINEERING SERVICES LLC
1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
PEC.0001553

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

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| △ | FOR CONSTRUCTION | KPF | 10/09/24 |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |

ATC SITE NUMBER:
302506
ATC SITE NAME:
WINCHESTER CT 3
VERIZON SITE NAME:
WINCHESTER E CT
SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

SEAL:

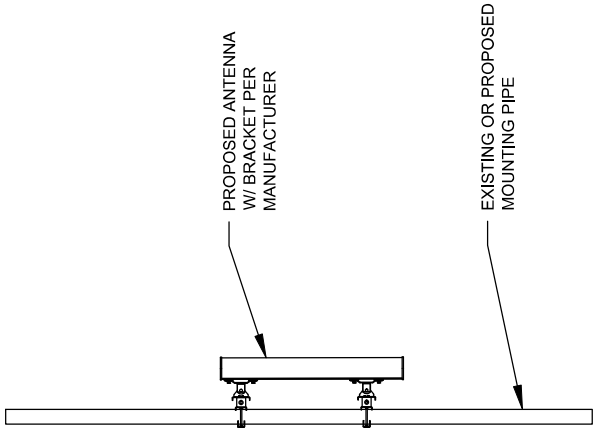


Digitally Signed: 2024-10-17

| | |
|--------------|-----------------|
| verizon | |
| ATC JOB NO: | 14867785_G0 |
| CUSTOMER ID: | WINCHESTER E CT |
| CUSTOMER #: | 5000246826 |

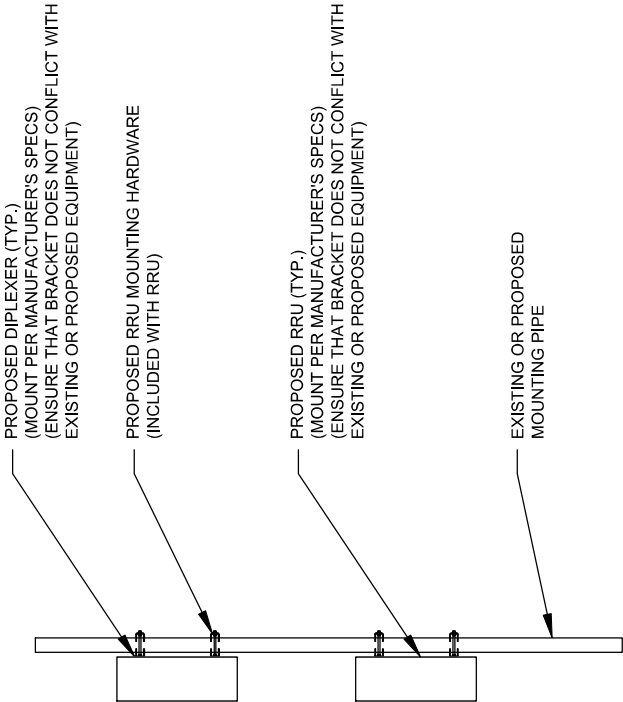
CONSTRUCTION
DETAILS

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



1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



2 PROPOSED DIPLEXER/RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



Colliers Engineering & Design
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
(856)797-0412
peter.albano@collierseng.com



Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10237228

Colliers Engineering & Design Project #: 21777477 (Rev. 1)

June 7, 2024

Site Information

Site ID: 5000246826-VZW / WINCHESTER E CT

Site Name: WINCHESTER E CT

Carrier Name: Verizon Wireless

Address: 15 Oakdale Ave
Winchester, Connecticut 06098

Latitude: 41.921597°

Longitude: -73.049411°

Structure Information

Tower Type: Monopole

Mount Type: 13.33-Ft Platform

FUZE ID # 16272064

Analysis Results

Platform: 54.5% Pass w/ Modifications*

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

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

Report Prepared By: Gianna Argentina



Mount Post-Modification Analysis Report
(1) 13.33-Ft Platform

June 7, 2024
Site ID: 5000246826-VZW / WINCHESTER E CT
Page | 5

Mount Connection Envelope Reactions:

| Connection Description | Elev. AGL (Ft) | Node Label | Envelope Wind Reactions | | | | Envelope Wind + Ice Reactions | | | |
|------------------------|----------------|------------|-------------------------|---------------|---------------|----------------|-------------------------------|---------------|---------------|----------------|
| | | | Axial (Lbs) | Lateral (Lbs) | Moment (K-Ft) | Torsion (K-Ft) | Axial (Lbs) | Lateral (Lbs) | Moment (K-Ft) | Torsion (K-Ft) |
| Sector B Standoff | 125 | N140 B | 1412 | 2101 | 3.252 | 1.549 | 2600 | 749 | 5.245 | 0.479 |
| Sector A Standoff | 125 | N141 | 1420 | 2141 | 3.307 | 1.189 | 2361 | 782 | 4.813 | 0.364 |
| Sector C Standoff | 125 | N142 | 1360 | 2037 | 3.088 | 1.453 | 2428 | 714 | 5.083 | 0.387 |

Notes:

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

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

| Ice Thickness (in) | Mount Pipes Excluded | | Mount Pipes Included | |
|--------------------|------------------------|-----------------------|------------------------|-----------------------|
| | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) |
| 0 | 20.7 | 20.7 | 33.6 | 33.6 |
| 0.5 | 26.8 | 26.8 | 45.1 | 45.1 |
| 1 | 32.6 | 32.6 | 56.2 | 56.2 |

Notes:

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

Requirements:

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

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

Attachments:


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

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

SUPPLEMENTAL

SHEET NUMBER: R-601

REVISION: 0



verizon

Mount Modification Drawings
Existing 13.33' Platform

Mount Modification Drawings
Existing 13.33' Platform

TOWER OWNER: AMERICAN TOWER CORPORATION
TOWER OWNER'S SITE NUMBER: CT 302506
CARRIER SITE NAME: WINCHESTER E CT
CARRIER SITE NUMBER: 5000246826
FUZE ID: 16272064

15 OAKDALE AVE
WINCHESTER, CT 06098
LITCHFIELD COUNTY

LATITUDE: 41.92159700° N
LONGITUDE: 73.04941100° W

PROJECT INFORMATION

APPLICANT'S NAME: WINCHESTER E CT
COMPANY: WINCHESTER E CT
ADDRESS: 15 OAKDALE AVE
CITY: WINCHESTER, CT 06098
STATE: CT
ZIP: 06098
CONTACT: WINCHESTER E CT
PHONE: 203.261.1111
FAX: 203.261.1111
EMAIL: WINCHESTER@AT&T.NET

SHEET INDEX

| SHEET | DESCRIPTION |
|-------|-----------------|
| 1 | GENERAL NOTES |
| 2 | FOUNDATION |
| 3 | STRUCTURAL |
| 4 | ELECTRICAL |
| 5 | MECHANICAL |
| 6 | PLUMBING |
| 7 | HAZARDOUS WASTE |
| 8 | ENVIRONMENTAL |
| 9 | ARCHITECTURAL |
| 10 | LANDSCAPE |
| 11 | TRAILER |
| 12 | APPENDIX |

DESIGN CRITERIA

GENERAL:
 ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES:
 INTERNATIONAL BUILDING CODE (IBC)
 INTERNATIONAL MECHANICAL CODE (IMC)
 INTERNATIONAL PLUMBING CODE (IPC)
 INTERNATIONAL ELECTRICAL CODE (NEC)
 INTERNATIONAL FIRE CODE (IFC)
 ALL OTHERS AS APPLICABLE

ENVIRONMENTAL:
 ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES:
 INTERNATIONAL BUILDING CODE (IBC)
 INTERNATIONAL MECHANICAL CODE (IMC)
 INTERNATIONAL PLUMBING CODE (IPC)
 INTERNATIONAL ELECTRICAL CODE (NEC)
 INTERNATIONAL FIRE CODE (IFC)
 ALL OTHERS AS APPLICABLE

PROJECT INFORMATION

APPLICANT'S NAME: WINCHESTER E CT
COMPANY: WINCHESTER E CT
ADDRESS: 15 OAKDALE AVE
CITY: WINCHESTER, CT 06098
STATE: CT
ZIP: 06098
CONTACT: WINCHESTER E CT
PHONE: 203.261.1111
FAX: 203.261.1111
EMAIL: WINCHESTER@AT&T.NET

SHEET INDEX

| SHEET | DESCRIPTION |
|-------|-----------------|
| 1 | GENERAL NOTES |
| 2 | FOUNDATION |
| 3 | STRUCTURAL |
| 4 | ELECTRICAL |
| 5 | MECHANICAL |
| 6 | PLUMBING |
| 7 | HAZARDOUS WASTE |
| 8 | ENVIRONMENTAL |
| 9 | ARCHITECTURAL |
| 10 | LANDSCAPE |
| 11 | TRAILER |
| 12 | APPENDIX |

DESIGN CRITERIA

GENERAL:
 ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES:
 INTERNATIONAL BUILDING CODE (IBC)
 INTERNATIONAL MECHANICAL CODE (IMC)
 INTERNATIONAL PLUMBING CODE (IPC)
 INTERNATIONAL ELECTRICAL CODE (NEC)
 INTERNATIONAL FIRE CODE (IFC)
 ALL OTHERS AS APPLICABLE

ENVIRONMENTAL:
 ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES:
 INTERNATIONAL BUILDING CODE (IBC)
 INTERNATIONAL MECHANICAL CODE (IMC)
 INTERNATIONAL PLUMBING CODE (IPC)
 INTERNATIONAL ELECTRICAL CODE (NEC)
 INTERNATIONAL FIRE CODE (IFC)
 ALL OTHERS AS APPLICABLE

PROJECT INFORMATION

APPLICANT'S NAME: WINCHESTER E CT
COMPANY: WINCHESTER E CT
ADDRESS: 15 OAKDALE AVE
CITY: WINCHESTER, CT 06098
STATE: CT
ZIP: 06098
CONTACT: WINCHESTER E CT
PHONE: 203.261.1111
FAX: 203.261.1111
EMAIL: WINCHESTER@AT&T.NET

SHEET INDEX

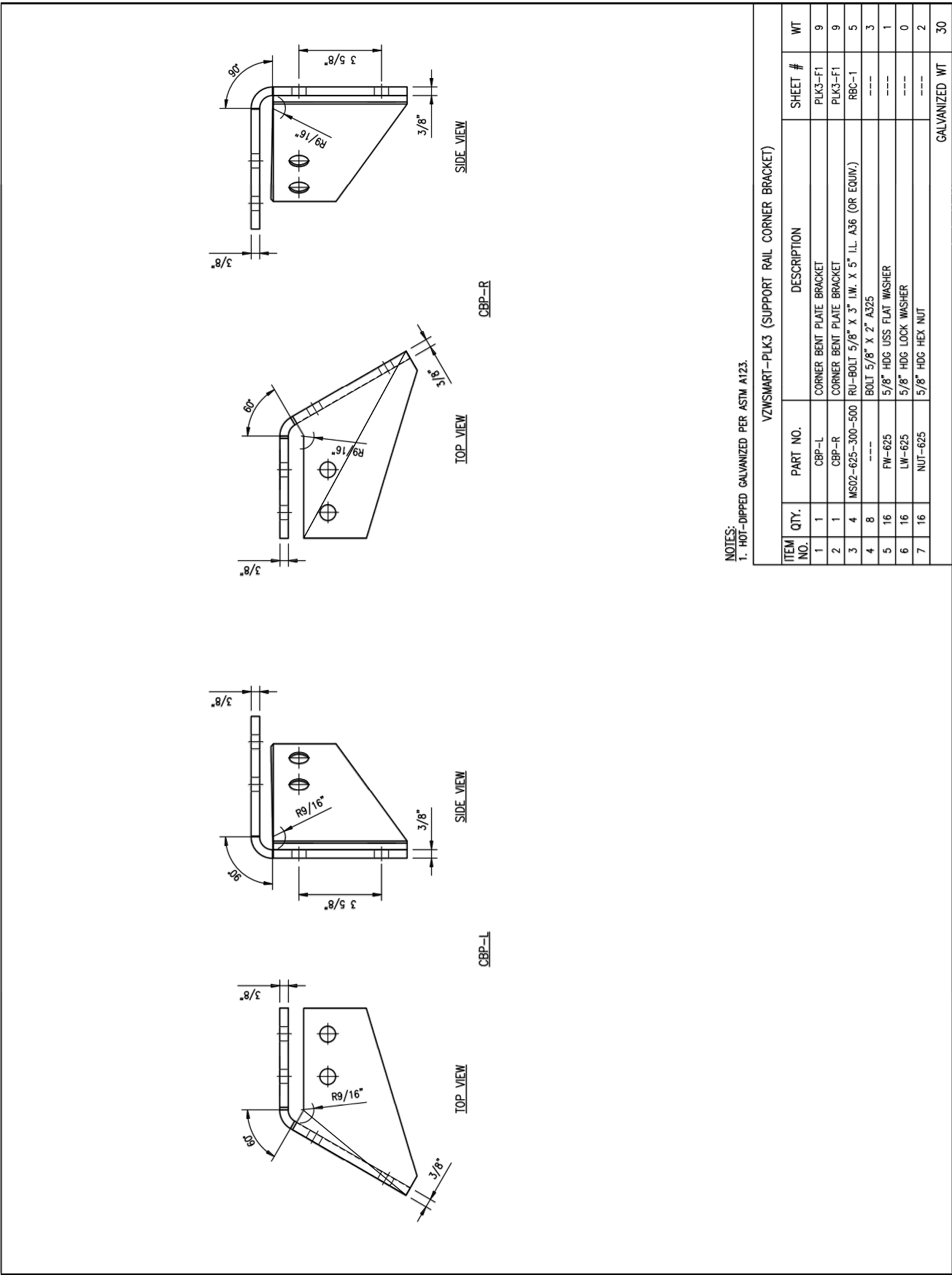
| SHEET | DESCRIPTION |
|-------|-----------------|
| 1 | GENERAL NOTES |
| 2 | FOUNDATION |
| 3 | STRUCTURAL |
| 4 | ELECTRICAL |
| 5 | MECHANICAL |
| 6 | PLUMBING |
| 7 | HAZARDOUS WASTE |
| 8 | ENVIRONMENTAL |
| 9 | ARCHITECTURAL |
| 10 | LANDSCAPE |
| 11 | TRAILER |
| 12 | APPENDIX |

DESIGN CRITERIA

GENERAL:
 ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES:
 INTERNATIONAL BUILDING CODE (IBC)
 INTERNATIONAL MECHANICAL CODE (IMC)
 INTERNATIONAL PLUMBING CODE (IPC)
 INTERNATIONAL ELECTRICAL CODE (NEC)
 INTERNATIONAL FIRE CODE (IFC)
 ALL OTHERS AS APPLICABLE

ENVIRONMENTAL:
 ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES:
 INTERNATIONAL BUILDING CODE (IBC)
 INTERNATIONAL MECHANICAL CODE (IMC)
 INTERNATIONAL PLUMBING CODE (IPC)
 INTERNATIONAL ELECTRICAL CODE (NEC)
 INTERNATIONAL FIRE CODE (IFC)
 ALL OTHERS AS APPLICABLE

[illegible][illegible][illegible]



VzW
SMART Tool®
Vendor

verizon

FOR REFERENCE ONLY

| | |
|---|-----------------|
| DRAWN BY: HJR | CHECKED BY: HMA |
| REV. DESCRIPTION | BY DATE |
| Δ FIRST ISSUE | HJR 05/06/20 |
| Δ | |
| Δ | |
| Δ | |
| Δ | |
| SHEET TITLE: | |
| VZWSMART-PLK3 SUPPORT RAIL CORNER BRACKET | |
| SHEET NUMBER | REV # |
| VZWSMART-PLK3 | 0 |

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



Post Modification Structural Analysis Report

Structure : 180 ft Monopole
ATC Asset Name : Winchester CT 3
ATC Asset Number : 302506
Engineering Number : 14867785_C4_04
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : WINCHESTER E CT
Carrier Site Number : 5000246826
Site Location : 15 Oakdale Avenue
Winsted, CT 06098-1862
41.9216° N, 73.0494° W
County : Litchfield
Date : October 3, 2024
Max Usage : 100%
Analysis Result : Pass - Pending

Created By:

Nathan Lyle
Structural Engineer I

Nathan Lyle



COA: PEC.0001553



Table of Contents

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

Introduction

The purpose of this report is to summarize results of a post-modification structural analysis performed on the 180 ft Monopole tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

| | |
|----------------------|--|
| Tower: | EI Job #7676, dated August 21, 2000 |
| Foundation: | Mapping by SGS Project #1922084, dated August 2, 2019 |
| Geotechnical: | Walti Project: SNET Tower-Whalen's Hill, dated February 8, 2000 |
| Modification: | ATC Job #42523432, dated October 24, 2008 ATC Job #50492933, dated October 15, 2012 ATC Job #14867785_C6_05, dated August 30, 2024 (Pending) |

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: | 124 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: | III |
| Topographic Factor Procedure: | Method 2 |
| Feature: | Hill |
| Crest Height (H): | 339 ft |
| Crest Length (L): | 1996 ft |
| Spectral Response: | $S_s = 0.17$, $S_i = 0.05$ |
| 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 the pending modifications cited in the Supporting Documents table are not completed, the results of this analysis are no longer valid, and VERIZON WIRELESS should contact American Tower's Site Manager for further direction on how to proceed.

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

Structure Usages

| Structural Component | Usage | Control | Result |
|------------------------|-------|------------------------|--------|
| Pole Shaft | 98.7% | 1.2D + 1.0W | Pass |
| Reinforcement | 99.7% | 10 ft to 105.36 ft | Pass |
| Upper Termination | 85.8% | 10 ft to 105.36 ft | Pass |
| Intermediate Connector | 72.8% | 10 ft to 105.36 ft | Pass |
| Lower Termination | 67.8% | 135.75 ft to 147.25 ft | Pass |
| Serviceability Usage | 65.6% | 1.0D + 1.0W | Pass |
| Base Plate @ 0.0 ft | 99.3% | Rods | Pass |
| Foundation | 60.4% | Moment [Soil] | Pass |

Maximum Reactions

| Foundation | Moment (k-ft) | Axial (k) | Shear (k) |
|---------------|---------------|-----------|-----------|
| Monopole Base | 6,409.3 | 67.4 | 59.4 |

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

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

VERIZON WIRELESS Final Loading

| Elev (ft) | Qty | Equipment | Lines |
|-----------|-----|---|---|
| 121.0 | 1 | Platform with Handrails | (6) 1 5/8" Coax (1) 1 5/8" Hybriflex |
| | 1 | Raycap RCMD-6627-PF-48 | |
| | 2 | Antel LPA-80063/6CF | |
| | 3 | Commscope CBC78T-DS-43-2X | |
| | 3 | Samsung B2/B66A RRH ORAN (RF 4439d-25A) | |
| | 3 | Samsung MT6413-77A | |
| | 3 | Samsung RF4461d-13A | |
| | 4 | Antel LPA-80080/6CF ____ | |
| | 6 | Commscope JAHH-65B-R3B | |
| 30.0 | 1 | GPS | - |

Other Existing/Reserved Loading

| Elev (ft) | Qty | Equipment | Lines | Carrier |
|-----------|-----|---------------------------------------|---|---------------|
| 185.0 | - | - | (2) 0.78" (19.7mm) 8 AWG 6 (2) 2" conduit | AT&T MOBILITY |
| 184.0 | 3 | CCI DMP65R-BU6DA | (2) 0.39" (10mm) Fiber Trunk (1) 0.40" (10.3mm) Fiber (6) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (3) 2" conduit | AT&T MOBILITY |
| | 3 | CCI HPA-65R-BUU-H6 | | |
| | 3 | CCI OPA65R-BU6B | | |
| | 3 | Ericsson RRUS 32 B30 | | |
| | 3 | Ericsson RRUS 4449 B5, B12 | | |
| | 3 | Ericsson RRUS 8843 B2, B66A | | |
| | 3 | Ericsson RRUS E2 B29 | | |
| | 3 | Raycap DC6-48-60-18-8F (23.5" Height) | | |
| 180.0 | 1 | Platform with Handrails | - | AT&T MOBILITY |
| 166.0 | 1 | Ceragon FibeAir IP-20S | (3) 1 1/4" (1.25"- 31.8mm) Fiber (1) 1.99" (50.7mm) Hybrid (4) 1/2" Coax | T-MOBILE |
| | 1 | Commscope VHLP2-11W/A | | |
| | 3 | Ericsson Air6449 B41 | | |
| | 3 | Ericsson Radio 4449 B71 B85A | | |
| | 3 | Mount Reinforcement | | |
| | 3 | Sector Frame | | |
| | 3 | RFS APXVAARR24_43-U-NA20 | | |

| Elev (ft) | Qty | Equipment | Lines | Carrier |
|-----------|-----|---|-----------------|--|
| 159.3 | 3 | Ericsson Radio 4460 B25+B66 | - | T-MOBILE |
| 150.1 | 2 | Decibel DB809DK-XT | - | CONNECTICUT STATE POLICE DEPT OF PUBLIC |
| 150.0 | 1 | Sinclair SD210-SF2P4SNM | (1) 1 5/8" Coax | LITCHFIELD COUNTY DISPATCH INC |
| 147.0 | 1 | Sinclair SC442D-HF1LDF(DXX-I30-G9-NUFP) | (2) 1 5/8" Coax | CONNECTICUT STATE POLICE DEPT OF PUBLIC |
| 146.0 | 1 | Sinclair SC479-HF1LDF(E5765) | (5) 1 5/8" Coax | CONNECTICUT STATE POLICE DEPT OF PUBLIC |
| 142.0 | 1 | Telewave ANT150D (5 lbs) | (1) 7/8" Coax | CONNECTICUT STATE POLICE DEPT OF PUBLIC |
| 141.0 | - | - | (1) 1 5/8" Coax | CONNECTICUT STATE POLICE DEPT OF PUBLIC |
| 140.0 | 4 | Side Arm | - | CONNECTICUT STATE POLICE DEPT OF PUBLIC |
| 139.5 | 1 | Bird 432-83H-01-T | - | CONNECTICUT STATE POLICE DEPT OF PUBLIC |
| 139.0 | - | - | (1) 1/2" Coax | CONNECTICUT STATE POLICE DEPT OF PUBLIC |
| 97.0 | 1 | Andrew DB586 | (1) 7/8" Coax | EVERSOURCE ENERGY |
| 95.0 | 1 | Bird 429-83H-01-T | (1) 1/2" Coax | EVERSOURCE ENERGY |
| | 1 | Side Arm | | |
| 93.0 | 1 | Andrew DB586 | (1) 7/8" Coax | EVERSOURCE ENERGY |
| 80.0 | 1 | RFS PA6-65AC | (1) EW63 | CONNECTICUT STATE POLICE DEPT OF PUBLIC |

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



Standard Conditions

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

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

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

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

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

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

ANALYSIS PARAMETERS

| | | | | | |
|-------------------|----------|-----------------|--------------------|------------------|----------------|
| Design Wind: | 124 mph | Ice Wind: | 50 mph w/ 1.0" ice | Service Wind: | 60 mph |
| Risk Category: | III | Exposure: | B | S _s : | 0.169 |
| Topo Factor: | Method 2 | Topo Feature: | Hill | S _i : | 0.054 |
| Structure Height: | 180.0 ft | Base Elevation: | 0.00 ft | Structure Type: | Taper |
| Base Diameter: | 52.75 in | Base Rotation: | 0.00° | Taper: | 0.2190 (in/ft) |

POLE SECTION PROPERTIES

| Section | Length (ft) | Flat Diameter (in) | | Thick (in) | Joint Type | Joint Length (in) | Pole Shape | Yield Strength (ksi) |
|---------|-------------|--------------------|--------|------------|------------|-------------------|------------|----------------------|
| | | Top | Bottom | | | | | |
| 1 | 49.040 | 41.99 | 52.75 | 0.438 | | 0.00 | 18 Sides | 65 |
| 2 | 49.500 | 33.21 | 44.07 | 0.375 | Slip Joint | 73.00 | 18 Sides | 65 |
| 3 | 48.330 | 24.31 | 34.92 | 0.312 | Slip Joint | 59.00 | 18 Sides | 65 |
| 4 | 47.880 | 15.00 | 25.51 | 0.188 | Slip Joint | 45.00 | 18 Sides | 65 |

DISCRETE APPURTENANCE

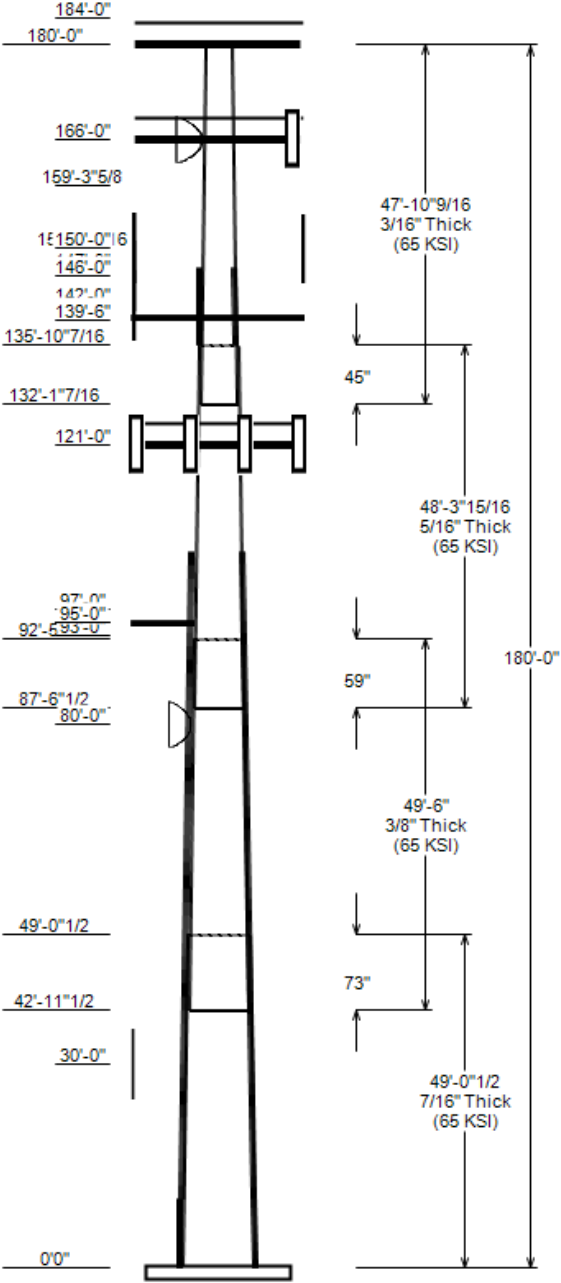
| Elev (ft) | Description |
|-----------|--|
| 184.0 | (3) Ericsson RRUS 4449 B5, B12 |
| 184.0 | (3) CCI DMP65R-BU6DA |
| 184.0 | (3) CCI HPA-65R-BU6B |
| 184.0 | (3) Ericsson RRUS 32 B30 |
| 184.0 | (3) CCI OPA65R-BU6B |
| 184.0 | (3) Ericsson RRUS E2 B29 |
| 184.0 | (3) Ericsson RRUS 8843 B2, B66A |
| 184.0 | (3) Raycap DC6-48-60-18-8F (23.5" Heig |
| 180.0 | (1) Generic Flat Platform with Handrails |
| 166.0 | (1) Ceragon FibeAir IP-20S |
| 166.0 | (1) Commscope VHL2-11W/A |
| 166.0 | (3) Ericsson Air6449 B41 |
| 166.0 | (3) RFS APXVAARR24_43-U-NA20 |
| 166.0 | (3) Generic Mount Reinforcement |
| 166.0 | (3) Ericsson Radio 4449 B71 B85A |
| 166.0 | (3) Generic Round Sector Frame |
| 159.3 | (3) Ericsson Radio 4460 B25+B66 |
| 150.1 | (2) Decibel DB809DK-XT |
| 150.0 | (1) Sinclair SD210-SF2P4SNM |
| 147.0 | (1) Sinclair SC442D-HF1LDF(DXX-I30-G |
| 146.0 | (1) Sinclair SC479-HF1LDF(E5765) |
| 142.0 | (1) Telewave ANT150D (5 lbs) |
| 140.0 | (4) Generic Round Side Arm |
| 139.5 | (1) Bird 432-83H-01-T |
| 121.0 | (2) Antel LPA-80063/6CF |
| 121.0 | (1) Generic Round Platform with Handrail |
| 121.0 | (3) Commscope CBC78T-DS-43-2X |
| 121.0 | (6) Commscope JAHH-65B-R3B |
| 121.0 | (1) Raycap RCMD-6627-PF-48 |
| 121.0 | (3) Samsung B2/B66A RRH ORAN (RF 4 |
| 121.0 | (3) Samsung RF4461d-13A |
| 121.0 | (3) Samsung MT6413-77A |
| 121.0 | (4) Antel LPA-80080/6CF |
| 97.0 | (1) Andrew DB586 |
| 95.0 | (1) Bird 429-83H-01-T |
| 95.0 | (1) Generic Round Side Arm |
| 93.0 | (1) Andrew DB586 |
| 80.0 | (1) RFS PA6-65AC |
| 30.0 | (1) Generic GPS |

LINEAR APPURTENANCE

| Elev To (ft) | Description |
|--------------|----------------------------------|
| 185.0 | (2) 2" conduit |
| 185.0 | (2) 0.78" (19.7mm) 8 AWG 6 |
| 184.0 | (3) 2" conduit |
| 184.0 | (6) 0.78" (19.7mm) 8 AWG 6 |
| 184.0 | (1) 0.40" (10.3mm) Fiber |
| 184.0 | (6) 1 5/8" Coax |
| 184.0 | (2) 0.39" (10mm) Fiber Trunk |
| 166.0 | (4) 1/2" Coax |
| 166.0 | (1) 1.99" (50.7mm) Hybrid |
| 166.0 | (3) 1 1/4" (1.25"- 31.8mm) Fiber |
| 150.0 | (1) 1 5/8" Coax |
| 149.0 | (1) 1.25" Thick Flat Plate |
| 149.0 | (1) 1.25" Thick Flat Plate |
| 149.0 | (1) 1.25" Thick Flat Plate |
| 147.0 | (2) 1 5/8" Coax |
| 146.0 | (5) 1 5/8" Coax |
| 142.0 | (1) 7/8" Coax |
| 141.0 | (1) 1 5/8" Coax |
| 139.0 | (1) 1/2" Coax |
| 121.0 | (1) 1 5/8" Hybriflex |
| 121.0 | (6) 1 5/8" Coax |
| 112.0 | (1) #20 w/ Angle Brackets |
| 112.0 | (1) #20 w/ Angle Brackets |
| 112.0 | (1) #20 w/ Angle Brackets |
| 112.0 | (1) #20 w/ Angle Brackets |
| 97.0 | (1) 7/8" Coax |
| 95.0 | (1) 1/2" Coax |
| 93.0 | (1) 7/8" Coax |
| 80.0 | (1) EW63 |

DISH SERVICEABILITY

| Load Case | Elevation (ft) | Deflection (in) | Rotation (°) |
|-------------|----------------|-----------------|--------------|
| 1.0D + 1.0W | 80.0 | 7.6092 | 0.9198 |
| 1.0D + 1.0W | 166.0 | 35.4976 | 2.3042 |



GLOBAL BASE REACTIONS

| Load Case | Moment (kip-ft) | Axial (kip) | Shear (kip) |
|----------------------|-----------------|-------------|-------------|
| 1.2D + 1.0W | 6409.29 | 67.37 | 59.40 |
| 0.9D + 1.0W | 6314.34 | 50.49 | 59.36 |
| 1.2D + 1.0Di + 1.0Wi | 1381.71 | 98.28 | 11.18 |
| 1.2D + 1.0Ev + 1.0Eh | 249.85 | 67.19 | 1.69 |
| 0.9D - 1.0Ev + 1.0Eh | 244.70 | 46.96 | 1.69 |
| 1.0D + 1.0W | 1333.64 | 56.25 | 12.44 |

| ANALYSIS PARAMETERS | | | |
|-------------------------------|----------------------|----------------|--------------|
| Location: | Litchfield County,CT | Height: | 180 ft |
| Type and Shape: | Taper, 18 Sides | Base Diameter: | 52.75 in |
| Manufacturer: | EEl | Top Diameter: | 15.00 in |
| K _d (non-service): | 0.95 | Taper: | 0.2190 in/ft |
| K _e : | 0.96 | Rotation: | 0.000° |

| ICE & WIND PARAMETERS | | | |
|------------------------|----------|---------------------------|------------|
| Risk Category: | III | Design Wind Speed: | 124 mph |
| Exposure Category: | B | Design Wind Speed w/ Ice: | 50 mph |
| Topo Factor Procedure: | Method 2 | Design Ice Thickness: | 1.00 in |
| | | Service Wind Speed: | 60 mph |
| | | HMSL: | 1073.00 ft |
| Crest Height(H): | 339 ft | Distance from Apex (x): | 0 ft |
| Crest Length(L): | 1996 ft | Upwind/Downwind: | Upwind |
| Feature: | Hill | | |

| SEISMIC PARAMETERS | | | | | |
|-----------------------|---------------------------------|--|-------|---------------------|-------|
| Analysis Method: | Equivalent Lateral Force Method | | | | |
| Site Class: | D - Stiff Soil | Period Based on Rayleigh Method (sec): | | 3.03 | |
| T _L (sec): | 6 | P: | 1 | C _s : | 0.030 |
| S _{ds} : | 0.180 | S _{d1} : | 0.086 | C _s Max: | 0.030 |
| S _s : | 0.169 | S _t : | 0.054 | C _s Min: | 0.030 |
| F _a : | 1.600 | F _v : | 2.400 | | |

| LOAD CASES | |
|----------------------|---------------------------------------|
| 1.2D + 1.0W | 124 mph Wind with No Ice |
| 0.9D + 1.0W | 124 mph Wind with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 50 mph Wind with 1" Radial Ice |
| 1.2D + 1.0Ev + 1.0Eh | Seismic |
| 0.9D - 1.0Ev + 1.0Eh | Seismic (Reduced DL) |
| 1.0D + 1.0W | 60 mph Wind with No Ice |

| SHAFT SECTION PROPERTIES | | | | | | | | | | | | | | | | | | | |
|--------------------------|----------------|---------------|-------------|---------------|----------------------|----------------|-------------|--------------|---------------|-------------|--------------|--------------|-------------|--------------|---------------|-------------|--------------|--------------|------------------|
| Section | Length (ft) | Thick (in) | Fy (ksi) | Joint Type | Joint Len (in) | Weight (lb) | Bottom | | | | | | Top | | | | | | |
| | | | | | | | Dia (in) | Elev (ft) | Area (in²) | Ix (in⁴) | W/t Ratio | D/t Ratio | Dia (in) | Elev (ft) | Area (in²) | Ix (in⁴) | W/t Ratio | D/t Ratio | Taper (in/ft) |
| 1-18 | 49.04 | 0.4375 | 65 | | 0.00 | 10,875 | 52.75 | 0.000 | 72.64 | 25,115.3 | 19.85 | 120.57 | 41.99 | 49.04 | 57.70 | 12,585. | 15.51 | 95.97 | 0.2194 |
| 2-18 | 49.50 | 0.3750 | 65 | Slip | 73.00 | 7,672 | 44.07 | 42.960 | 52.01 | 12,548.1 | 19.31 | 117.53 | 33.21 | 92.46 | 39.08 | 5,324.0 | 14.21 | 88.56 | 0.2194 |
| 3-18 | 48.33 | 0.3125 | 65 | Slip | 59.00 | 4,779 | 34.92 | 87.540 | 34.32 | 5,191.9 | 18.29 | 111.73 | 24.31 | 135.87 | 23.80 | 1,731.7 | 12.31 | 77.79 | 0.2194 |
| 4-18 | 47.88 | 0.1875 | 65 | Slip | 45.00 | 1,946 | 25.51 | 132.120 | 15.07 | 1,220.5 | 22.58 | 136.04 | 15.00 | 180.00 | 8.82 | 244.4 | 12.70 | 80.01 | 0.2194 |

Total Shaft Weight25,272

| DISCRETE APPURTENANCE PROPERTIES | | | | | | | | | | |
|----------------------------------|--------------------------------|-----|------|------------------|----------------|--------------|-----------------------|----------------|--------------|-----------------------|
| Attach Elev (ft) | Description | Qty | Ka | Vert Ecc (ft) | No Ice | | | Ice | | |
| | | | | | Weight (lb) | EPAa (sf) | Orientation Factor | Weight (lb) | EPAa (sf) | Orientation Factor |
| 184.00 | CCI HPA-65R-BUU-H6 | 3 | 0.75 | -2.000 | 51.00 | 9.658 | 0.69 | 241.19 | 12.061 | 0.69 |
| 184.00 | CCI OPA65R-BU6B | 3 | 0.75 | 0.000 | 55.00 | 7.851 | 0.72 | 213.50 | 10.241 | 0.72 |
| 184.00 | Ericsson RRUS E2 B29 | 3 | 0.75 | 0.000 | 60.00 | 3.145 | 0.50 | 130.11 | 4.150 | 0.50 |
| 184.00 | Ericsson RRUS 32 B30 | 3 | 0.75 | 0.000 | 60.00 | 2.743 | 0.50 | 123.77 | 3.757 | 0.50 |
| 184.00 | CCI DMP65R-BU6DA | 3 | 0.75 | 0.000 | 79.40 | 12.709 | 0.63 | 302.70 | 15.127 | 0.63 |
| 184.00 | Ericsson RRUS 8843 B2, B66A | 3 | 0.75 | 0.000 | 72.00 | 1.639 | 0.50 | 125.13 | 2.371 | 0.50 |
| 184.00 | Raycap DC6-48-60-18-8F (23.5" | 3 | 0.75 | 0.000 | 20.00 | 1.260 | 0.50 | 65.64 | 1.831 | 0.50 |
| 184.00 | Ericsson RRUS 4449 B5, B12 | 3 | 0.75 | 0.000 | 71.00 | 1.969 | 0.50 | 126.87 | 2.778 | 0.50 |
| 180.00 | Generic Flat Platform with Han | 1 | 1.00 | 0.000 | 2500.00 | 42.400 | 1.00 | 4039.97 | 60.580 | 1.00 |
| 166.00 | Generic Round Sector Frame | 3 | 0.75 | 0.000 | 700.00 | 14.400 | 0.75 | 1543.57 | 28.717 | 0.75 |
| 166.00 | RFS APXVAARR24_43-U-NA20 | 3 | 0.80 | 0.000 | 127.90 | 20.243 | 0.63 | 467.45 | 23.451 | 0.63 |
| 166.00 | Ericsson Air6449 B41 | 3 | 0.80 | 0.000 | 104.00 | 5.682 | 0.63 | 221.87 | 7.055 | 0.63 |
| 166.00 | Generic Mount Reinforcement | 3 | 0.75 | 0.000 | 200.00 | 4.980 | 0.67 | 367.39 | 9.280 | 0.67 |
| 166.00 | Commscope VHLP2-11W/A | 1 | 0.80 | 0.000 | 17.00 | 4.650 | 0.78 | 94.76 | 5.748 | 0.78 |
| 166.00 | Ericsson Radio 4449 B71 B85A | 3 | 0.80 | 0.000 | 75.00 | 1.650 | 0.50 | 127.01 | 2.385 | 0.50 |
| 166.00 | Ceragon FibeAir IP-20S | 1 | 0.80 | 0.000 | 13.20 | 0.570 | 1.00 | 22.73 | 0.968 | 1.00 |
| 159.30 | Ericsson Radio 4460 B25+B66 | 3 | 0.80 | 0.000 | 109.00 | 2.564 | 0.50 | 185.31 | 3.474 | 0.50 |
| 150.10 | Decibel DB809DK-XT | 2 | 1.00 | 0.000 | 64.00 | 6.350 | 1.00 | 201.09 | 12.806 | 1.00 |
| 150.00 | Sinclair SD210-SF2P4SNM | 1 | 1.00 | 0.000 | 8.30 | 1.370 | 1.00 | 48.24 | 5.282 | 1.00 |
| 147.00 | Sinclair SC442D-HF1LDF(DXX-I30 | 1 | 1.00 | -1.000 | 79.00 | 10.479 | 1.00 | 293.00 | 16.917 | 1.00 |
| 146.00 | Sinclair SC479-HF1LDF(E5765) | 1 | 1.00 | 0.000 | 34.00 | 5.030 | 1.00 | 140.89 | 9.453 | 1.00 |
| 142.00 | Telewave ANT150D (5 lbs) | 1 | 1.00 | 0.000 | 5.00 | 1.090 | 1.00 | 8.00 | 1.743 | 1.00 |
| 140.00 | Generic Round Side Arm | 4 | 1.00 | 0.000 | 187.50 | 5.200 | 0.67 | 266.11 | 7.536 | 0.67 |
| 139.50 | Bird 432-83H-01-T | 1 | 0.80 | 0.000 | 25.00 | 1.400 | 0.50 | 62.25 | 2.074 | 0.50 |
| 121.00 | Generic Round Platform with Ha | 1 | 1.00 | 0.000 | 2500.00 | 27.200 | 1.00 | 3884.06 | 48.088 | 1.00 |
| 121.00 | Antel LPA-80063/6CF | 2 | 0.75 | 0.000 | 27.00 | 9.593 | 0.82 | 267.41 | 10.743 | 0.82 |
| 121.00 | Commscope JAHH-65B-R3B | 6 | 0.75 | 0.000 | 60.60 | 9.113 | 0.69 | 233.47 | 11.484 | 0.69 |
| 121.00 | Antel LPA-80080/6CF ____ | 4 | 0.75 | 0.000 | 21.00 | 8.628 | 0.62 | 182.47 | 5.321 | 0.62 |
| 121.00 | Raycap RCMDC-6627-PF-48 | 1 | 0.75 | 0.000 | 32.00 | 4.056 | 0.50 | 140.60 | 5.222 | 0.50 |
| 121.00 | Samsung MT6413-77A | 3 | 0.75 | 0.000 | 57.30 | 3.805 | 0.61 | 129.85 | 4.940 | 0.61 |
| 121.00 | Samsung RF4461d-13A | 3 | 0.75 | 0.000 | 79.10 | 1.875 | 0.50 | 134.19 | 2.646 | 0.50 |
| 121.00 | Commscope CBC78T-DS-43-2X | 3 | 0.75 | 0.000 | 20.70 | 0.552 | 0.50 | 39.58 | 0.986 | 0.50 |
| 121.00 | Samsung B2/B66A RRH ORAN (RF 4 | 3 | 0.75 | 0.000 | 74.70 | 1.875 | 0.50 | 129.31 | 2.644 | 0.50 |
| 97.00 | Andrew DB586 | 1 | 1.00 | 0.000 | 8.30 | 0.740 | 1.00 | 13.19 | 1.176 | 1.00 |
| 95.00 | Bird 429-83H-01-T | 1 | 0.90 | 1.000 | 20.00 | 0.917 | 0.50 | 46.98 | 1.541 | 0.50 |
| 95.00 | Generic Round Side Arm | 1 | 1.00 | 0.000 | 187.50 | 5.200 | 1.00 | 264.71 | 7.494 | 1.00 |
| 93.00 | Andrew DB586 | 1 | 1.00 | 0.000 | 8.30 | 0.740 | 1.00 | 13.18 | 1.175 | 1.00 |
| 80.00 | RFS PA6-65AC | 1 | 1.00 | 0.000 | 278.00 | 47.050 | 0.98 | 672.85 | 50.884 | 0.98 |
| 30.00 | Generic GPS | 1 | 1.00 | 0.000 | 10.00 | 0.900 | 1.00 | 32.70 | 1.396 | 1.00 |
| Totals | Row Count: 39 | 88 | | | 13,153.50 | | | 27,933.57 | | |

| LINEAR APPURTENANCE PROPERTIES | | | | | | | | | | | | |
|--------------------------------|--------------------|-----|----------------------|------------------|-------------------|------|-------------|---------------------------------|---------------------------------|------------------|-------------------------------|-------------------------------|
| Load Case Azimuth (deg): 0.00 | | | | | | | | | | | | |
| Elev From (ft) | Elev To (ft) | Qty | Description | Diameter (in) | Weight (lb/ft) | Flat | Max/ Row | Distance Between Rows(in) | Distance Between Cols(in) | Azimuth (deg) | Distance From Face (in) | Exposed To Wind Carrier |
| 0.00 | 185.00 | 2 | 2" conduit | 2.38 | 3.65 | N | 0 | 0 | 0 | 0 | 0 | N AT&T MOBILITY |
| 0.00 | 185.00 | 2 | 0.78" (19.7mm) 8 AWG | 0.78 | 0.59 | N | 0 | 0 | 0 | 0 | 0 | N AT&T MOBILITY |
| 0.00 | 184.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0 | 0 | 0 | 0 | N AT&T MOBILITY |

ASSET: 302506, Winchester CT 3
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14867785_C4_04

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg): 0.00

| Elev From (ft) | Elev To (ft) | Qty | Description | Diameter (in) | Weight (lb/ft) | Flat | Max/Row | Distance Between Rows(in) | Distance Between Cols(in) | Azimuth (deg) | Distance From Face (in) | Exposed To Wind | Carrier |
|----------------|--------------|-----|-----------------------|---------------|----------------|------|---------|---------------------------|---------------------------|---------------|-------------------------|-----------------|-----------------------|
| 0.00 | 184.00 | 6 | 0.78" (19.7mm) 8 AWG | 0.78 | 0.59 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 0.00 | 184.00 | 3 | 2" conduit | 2.38 | 3.65 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 0.00 | 184.00 | 2 | 0.39" (10mm) Fiber Tr | 0.39 | 0.06 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 0.00 | 184.00 | 1 | 0.40" (10.3mm) Fiber | 0.4 | 0.09 | N | 0 | 0 | 0 | 0 | 0 | N | AT&T MOBILITY |
| 0.00 | 166.00 | 4 | 1/2" Coax | 0.63 | 0.15 | N | 4 | 1 | 1 | 280 | 1 | Y | T-MOBILE |
| 0.00 | 166.00 | 3 | 1 1/4" (1.25"- 31.8mm | 1.25 | 1.05 | N | 3 | 1 | 1 | 290 | 1 | Y | T-MOBILE |
| 0.00 | 166.00 | 1 | 1.99" (50.7mm) Hybrid | 1.99 | 1.9 | N | 1 | 1 | 1 | 280 | 1 | Y | T-MOBILE |
| 0.00 | 150.00 | 1 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0 | 0 | 0 | 0 | N | LITCHFIELD COUNTY DIS |
| 134.00 | 149.00 | 1 | 1.25" Thick Flat Plat | 1.25 | 0 | Y | 1 | 0 | 0 | 180 | 0 | Y | |
| 134.00 | 149.00 | 1 | 1.25" Thick Flat Plat | 1.25 | 0 | Y | 1 | 0 | 0 | 90 | 0 | Y | |
| 134.00 | 149.00 | 1 | 1.25" Thick Flat Plat | 1.25 | 0 | Y | 1 | 0 | 0 | 0 | 0 | Y | |
| 134.00 | 149.00 | 1 | 1.25" Thick Flat Plat | 1.25 | 0 | Y | 1 | 0 | 0 | 270 | 0 | Y | |
| 0.00 | 147.00 | 2 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0 | 0 | 0 | 0 | N | CONNECTICUT STATE P |
| 0.00 | 146.00 | 5 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0 | 0 | 0 | 0 | N | CONNECTICUT STATE P |
| 0.00 | 142.00 | 1 | 7/8" Coax | 1.09 | 0.33 | N | 0 | 0 | 0 | 0 | 0 | N | CONNECTICUT STATE P |
| 0.00 | 141.00 | 1 | 1 5/8" Coax | 1.98 | 0.82 | N | 0 | 0 | 0 | 0 | 0 | N | CONNECTICUT STATE P |
| 0.00 | 139.00 | 1 | 1/2" Coax | 0.63 | 0.15 | N | 0 | 0 | 0 | 0 | 0 | N | CONNECTICUT STATE P |
| 0.00 | 121.00 | 6 | 1 5/8" Coax | 1.98 | 0.82 | N | 3 | 1 | 1 | 90 | 1 | Y | VERIZON WIRELESS |
| 0.00 | 121.00 | 1 | 1 5/8" Hybriflex | 1.98 | 1.3 | N | 1 | 1.49 | 1.49 | 85 | 1.49 | Y | VERIZON WIRELESS |
| 0.00 | 112.00 | 1 | #20 w/ Angle Brackets | 4 | 4.68 | Y | 1 | 0 | 0 | 260 | 0 | Y | |
| 0.00 | 112.00 | 1 | #20 w/ Angle Brackets | 4 | 4.68 | Y | 1 | 0 | 0 | 330 | 0 | Y | |
| 0.00 | 112.00 | 1 | #20 w/ Angle Brackets | 4 | 4.68 | Y | 1 | 0 | 0 | 150 | 0 | Y | |
| 0.00 | 112.00 | 1 | #20 w/ Angle Brackets | 4 | 4.68 | Y | 1 | 0 | 0 | 80 | 0 | Y | |
| 0.00 | 97.00 | 1 | 7/8" Coax | 1.09 | 0.33 | N | 0 | 0 | 0 | 0 | 0 | N | EVERSOURCE ENERGY |
| 0.00 | 95.00 | 1 | 1/2" Coax | 0.63 | 0.15 | N | 0 | 0 | 0 | 0 | 0 | N | EVERSOURCE ENERGY |
| 0.00 | 93.00 | 1 | 7/8" Coax | 1.09 | 0.33 | N | 0 | 0 | 0 | 0 | 0 | N | EVERSOURCE ENERGY |
| 0.00 | 80.00 | 1 | EW63 | 2.01 | 0.51 | N | 0 | 0 | 0 | 0 | 0 | N | CONNECTICUT STATE P |

ADDITIONAL STEEL

Intermediate Connectors

| Elev From (ft) | Elev To (ft) | Qty | Description | Fy (ksi) | Offset (in) | Bracket Type | Spacing (in) | Length (in) | Connectors | Continuation? |
|----------------|--------------|-----|------------------------|----------|-------------|--------------------|--------------|-------------|--------------------|---------------|
| 0.00 | 10.00 | 4 | SOL #20 All Thread Bar | 80 | 2.19 | 6" Angle Bracket | 15.00 | 3.13 | 5/8" A36 U-Bolt | N |
| 10.00 | 105.36 | 4 | SOL #20 All Thread Bar | 80 | 2.19 | 6" Angle Bracket | 30.00 | 3.31 | 5/8" A36 U-Bolt | Y |
| 135.75 | 147.25 | 4 | PL PL 3.5" x 1.25" | 46 | 0.00 | AJAX M20 Class 8.8 | 24.00 | 3.00 | AJAX M20 Class 8.8 | N |

SEGMENT PROPERTIES

| Seg Top Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | F'y (ksi) | S (in ³) | Z (in ³) | Weight (lb) | Additional Reinforcing | | |
|----------------------|-------------------------|---------------|------------------|----------------------------|--------------------------|--------------|--------------|--------------|-------------------------|-------------------------|----------------|----------------------------|--------------------------|----------------|
| | | | | | | | | | | | | Area (in ²) | Ix (in ⁴) | Weight (lb) |
| 0.00 | | 0.4375 | 52.750 | 72.640 | 25,115.3 | 19.85 | 120.57 | 78.1 | 937.8 | 0.0 | 0.0 | 19.640 | 8,737.00 | 0.0 |
| 5.00 | | 0.4375 | 51.653 | 71.116 | 23,567.9 | 19.41 | 118.06 | 78.6 | 898.7 | 0.0 | 1,222.9 | 19.640 | 8,418.70 | 334.0 |
| 10.00 | Reinf. Top Reinf Bottom | 0.4375 | 50.556 | 69.593 | 22,085.4 | 18.96 | 115.56 | 79.1 | 860.4 | 0.0 | 1,197.0 | 19.640 | 8,106.30 | 334.0 |
| 15.00 | | 0.4375 | 49.458 | 68.069 | 20,666.5 | 18.52 | 113.05 | 79.6 | 823.0 | 0.0 | 1,171.1 | 19.640 | 7,799.90 | 334.0 |
| 20.00 | | 0.4375 | 48.361 | 66.546 | 19,309.6 | 18.08 | 110.54 | 80.1 | 786.4 | 0.0 | 1,145.2 | 19.640 | 7,499.30 | 334.0 |
| 25.00 | | 0.4375 | 47.264 | 65.022 | 18,013.5 | 17.64 | 108.03 | 80.7 | 750.7 | 0.0 | 1,119.2 | 19.640 | 7,204.70 | 334.0 |
| 30.00 | | 0.4375 | 46.167 | 63.499 | 16,776.7 | 17.20 | 105.52 | 81.2 | 715.7 | 0.0 | 1,093.3 | 19.640 | 6,916.00 | 334.0 |
| 35.00 | | 0.4375 | 45.070 | 61.975 | 15,597.8 | 16.75 | 103.02 | 81.7 | 681.7 | 0.0 | 1,067.4 | 19.640 | 6,633.10 | 334.0 |
| 40.00 | | 0.4375 | 43.972 | 60.451 | 14,475.6 | 16.31 | 100.51 | 82.2 | 648.4 | 0.0 | 1,041.5 | 19.640 | 6,356.20 | 334.0 |
| 42.96 | Bot - Section 2 | 0.4375 | 43.324 | 59.551 | 13,838.0 | 16.05 | 99.03 | 82.5 | 629.1 | 0.0 | 603.6 | 19.640 | 6,195.30 | 197.5 |
| 45.00 | | 0.4375 | 42.875 | 58.928 | 13,408.4 | 15.87 | 98.00 | 82.6 | 616.0 | 0.0 | 771.7 | 19.640 | 6,269.80 | 136.5 |
| 49.04 | Top - Section 1 | 0.3750 | 42.739 | 50.422 | 11,432.9 | 18.69 | 113.97 | 79.4 | 526.9 | 0.0 | 1,502.0 | 19.640 | 6,051.90 | 269.9 |
| 50.00 | | 0.3750 | 42.528 | 50.171 | 11,263.2 | 18.59 | 113.41 | 79.5 | 521.6 | 0.0 | 164.3 | 19.640 | 6,000.70 | 64.1 |
| 55.00 | | 0.3750 | 41.431 | 48.865 | 10,406.4 | 18.07 | 110.48 | 80.1 | 494.7 | 0.0 | 842.5 | 19.640 | 5,737.50 | 334.0 |
| 60.00 | | 0.3750 | 40.334 | 47.559 | 9,594.10 | 17.55 | 107.56 | 80.8 | 468.5 | 0.0 | 820.3 | 19.640 | 5,480.20 | 334.0 |
| 65.00 | | 0.3750 | 39.236 | 46.253 | 8,825.30 | 17.04 | 104.63 | 81.4 | 443.0 | 0.0 | 798.1 | 19.640 | 5,228.80 | 334.0 |
| 70.00 | | 0.3750 | 38.139 | 44.947 | 8,098.70 | 16.52 | 101.70 | 82 | 418.2 | 0.0 | 775.8 | 19.640 | 4,983.30 | 334.0 |
| 75.00 | | 0.3750 | 37.042 | 43.641 | 7,413.10 | 16.01 | 98.78 | 82.6 | 394.2 | 0.0 | 753.6 | 19.640 | 4,743.70 | 334.0 |
| 80.00 | | 0.3750 | 35.945 | 42.335 | 6,767.40 | 15.49 | 95.85 | 82.6 | 370.8 | 0.0 | 731.4 | 19.640 | 4,510.10 | 334.0 |
| 85.00 | | 0.3750 | 34.848 | 41.030 | 6,160.20 | 14.97 | 92.93 | 82.6 | 348.2 | 0.0 | 709.2 | 19.640 | 4,282.30 | 334.0 |
| 87.54 | Bot - Section 3 | 0.3750 | 34.290 | 40.366 | 5,866.20 | 14.71 | 91.44 | 82.6 | 337.0 | 0.0 | 351.7 | 19.640 | 4,168.90 | 169.7 |
| 90.00 | | 0.3750 | 33.750 | 39.724 | 5,590.60 | 14.46 | 90.00 | 82.6 | 326.3 | 0.0 | 620.3 | 19.640 | 4,186.10 | 164.3 |
| 92.46 | Top - Section 2 | 0.3125 | 33.836 | 33.250 | 4,721.20 | 17.68 | 108.28 | 80.6 | 274.8 | 0.0 | 609.6 | 19.640 | 4,077.60 | 164.1 |
| 93.00 | | 0.3125 | 33.717 | 33.132 | 4,671.00 | 17.61 | 107.89 | 80.7 | 272.9 | 0.0 | 61.4 | 19.640 | 4,053.80 | 36.3 |
| 95.00 | | 0.3125 | 33.278 | 32.697 | 4,489.30 | 17.37 | 106.49 | 81 | 265.7 | 0.0 | 224.0 | 19.640 | 3,966.80 | 133.6 |
| 97.00 | | 0.3125 | 32.839 | 32.261 | 4,312.40 | 17.12 | 105.09 | 81.3 | 258.6 | 0.0 | 221.0 | 19.640 | 3,880.70 | 133.6 |
| 100.00 | | 0.3125 | 32.181 | 31.608 | 4,055.80 | 16.75 | 102.98 | 81.7 | 248.2 | 0.0 | 326.0 | 19.640 | 3,753.40 | 200.4 |
| 105.00 | | 0.3125 | 31.084 | 30.520 | 3,651.20 | 16.13 | 99.47 | 82.4 | 231.4 | 0.0 | 528.5 | 19.640 | 3,545.90 | 334.0 |
| 105.36 | Reinf. Top | 0.3125 | 31.005 | 30.442 | 3,623.10 | 16.08 | 99.22 | 82.5 | 230.2 | 0.0 | 37.3 | 19.640 | 3,531.20 | 24.0 |
| 110.00 | | 0.3125 | 29.987 | 29.432 | 3,274.40 | 15.51 | 95.96 | 82.6 | 215.1 | 0.0 | 472.7 | | | |
| 115.00 | | 0.3125 | 28.889 | 28.344 | 2,924.40 | 14.89 | 92.45 | 82.6 | 199.4 | 0.0 | 491.5 | | | |
| 120.00 | | 0.3125 | 27.792 | 27.255 | 2,600.30 | 14.27 | 88.94 | 82.6 | 184.3 | 0.0 | 473.0 | | | |
| 121.00 | | 0.3125 | 27.573 | 27.038 | 2,538.50 | 14.15 | 88.23 | 82.6 | 181.3 | 0.0 | 92.4 | | | |
| 125.00 | | 0.3125 | 26.695 | 26.167 | 2,301.10 | 13.65 | 85.42 | 82.6 | 169.8 | 0.0 | 362.1 | | | |
| 130.00 | | 0.3125 | 25.598 | 25.079 | 2,025.80 | 13.03 | 81.91 | 82.6 | 155.9 | 0.0 | 435.9 | | | |
| 132.12 | Bot - Section 4 | 0.3125 | 25.133 | 24.618 | 1,916.00 | 12.77 | 80.42 | 82.6 | 150.2 | 0.0 | 179.2 | | | |
| 135.00 | | 0.3125 | 24.501 | 23.991 | 1,773.40 | 12.41 | 78.40 | 82.6 | 142.6 | 0.0 | 384.0 | | | |
| 135.75 | Reinf Bottom | 0.3125 | 24.336 | 23.827 | 1,737.40 | 12.32 | 77.88 | 82.6 | 140.6 | 0.0 | 98.4 | | | |
| 135.87 | Top - Section 3 | 0.1875 | 24.685 | 14.578 | 1,105.30 | 21.80 | 131.65 | 75.8 | 88.2 | 0.0 | 15.7 | 17.500 | 1,481.40 | 7.1 |
| 139.50 | | 0.1875 | 23.888 | 14.104 | 1,001.00 | 21.05 | 127.40 | 76.6 | 82.5 | 0.0 | 177.2 | 17.500 | 1,392.40 | 216.0 |
| 140.00 | | 0.1875 | 23.778 | 14.039 | 987.10 | 20.95 | 126.82 | 76.8 | 81.8 | 0.0 | 23.9 | 17.500 | 1,380.40 | 29.8 |
| 142.00 | | 0.1875 | 23.340 | 13.778 | 933.10 | 20.54 | 124.48 | 77.2 | 78.7 | 0.0 | 94.7 | 17.500 | 1,332.70 | 119.0 |
| 145.00 | | 0.1875 | 22.681 | 13.386 | 855.70 | 19.92 | 120.97 | 78 | 74.3 | 0.0 | 138.6 | 17.500 | 1,262.90 | 178.5 |
| 146.00 | | 0.1875 | 22.462 | 13.255 | 830.90 | 19.71 | 119.80 | 78.2 | 72.9 | 0.0 | 45.3 | 17.500 | 1,240.00 | 59.5 |
| 147.00 | | 0.1875 | 22.242 | 13.125 | 806.60 | 19.51 | 118.63 | 78.5 | 71.4 | 0.0 | 44.9 | 17.500 | 1,217.30 | 59.5 |
| 147.25 | Reinf. Top | 0.1875 | 22.187 | 13.092 | 800.60 | 19.45 | 118.33 | 78.5 | 71.1 | 0.0 | 11.2 | 17.500 | 1,211.70 | 14.9 |
| 150.00 | | 0.1875 | 21.584 | 12.733 | 736.50 | 18.89 | 115.11 | 79.2 | 67.2 | 0.0 | 120.8 | | | |
| 150.10 | | 0.1875 | 21.562 | 12.720 | 734.20 | 18.87 | 115.00 | 79.2 | 67.1 | 0.0 | 4.3 | | | |
| 155.00 | | 0.1875 | 20.487 | 12.080 | 628.90 | 17.86 | 109.26 | 80.4 | 60.5 | 0.0 | 206.8 | | | |
| 159.30 | | 0.1875 | 19.543 | 11.519 | 545.20 | 16.97 | 104.23 | 81.4 | 54.9 | 0.0 | 172.6 | | | |
| 160.00 | | 0.1875 | 19.390 | 11.427 | 532.30 | 16.82 | 103.41 | 81.6 | 54.1 | 0.0 | 27.3 | | | |
| 165.00 | | 0.1875 | 18.292 | 10.774 | 446.20 | 15.79 | 97.56 | 82.6 | 48.0 | 0.0 | 188.9 | | | |
| 166.00 | | 0.1875 | 18.073 | 10.644 | 430.20 | 15.59 | 96.39 | 82.6 | 46.9 | 0.0 | 36.4 | | | |
| 170.00 | | 0.1875 | 17.195 | 10.121 | 369.90 | 14.76 | 91.71 | 82.6 | 42.4 | 0.0 | 141.3 | | | |
| 175.00 | | 0.1875 | 16.098 | 9.468 | 302.80 | 13.73 | 85.86 | 82.6 | 37.1 | 0.0 | 166.6 | | | |
| 180.00 | | 0.1875 | 15.001 | 8.815 | 244.40 | 12.70 | 80.00 | 82.6 | 32.1 | 0.0 | 155.5 | | | |
| Totals: | | | | | | | | | | | 25,271.1 | | | 7,722.3 |

ASSET: 302506, Winchester CT 3
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14867785_C4_04

CALCULATED FORCES

Load Case: 1.2D + 1.0W

124 mph Wind with No Ice

28 Iterations

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

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (ft-kips) | Phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|---------------------|---------------------|------------------------|------------------------|--------------------------|-------------------|-------|
| 0.00 | -67.37 | -59.40 | 0.00 | -6,409.3 | 0.00 | 6,409.29 | 5,102.86 | 1,274.83 | 6,023.66 | 5,489.79 | 0 | 0 | 0.879 |
| 5.00 | -64.82 | -58.53 | 0.00 | -6,112.3 | 0.00 | 6,112.28 | 5,029.12 | 1,248.09 | 5,773.66 | 5,296.04 | 0.14 | -0.26 | 0.863 |
| 10.00 | -62.32 | -57.66 | 0.00 | -5,819.6 | 0.00 | 5,819.62 | 4,953.96 | 1,221.35 | 5,528.96 | 5,104.17 | 0.56 | -0.53 | 0.846 |
| 15.00 | -59.86 | -56.77 | 0.00 | -5,531.4 | 0.00 | 5,531.35 | 4,877.37 | 1,194.61 | 5,289.56 | 4,914.29 | 1.26 | -0.8 | 0.829 |
| 20.00 | -57.43 | -55.88 | 0.00 | -5,247.5 | 0.00 | 5,247.50 | 4,799.35 | 1,167.88 | 5,055.46 | 4,726.50 | 2.24 | -1.07 | 0.811 |
| 25.00 | -55.04 | -54.98 | 0.00 | -4,968.1 | 0.00 | 4,968.11 | 4,719.91 | 1,141.14 | 4,826.65 | 4,540.87 | 3.5 | -1.34 | 0.793 |
| 30.00 | -52.68 | -54.03 | 0.00 | -4,693.2 | 0.00 | 4,693.23 | 4,639.04 | 1,114.40 | 4,603.14 | 4,357.53 | 5.05 | -1.61 | 0.774 |
| 35.00 | -50.38 | -52.83 | 0.00 | -4,423.1 | 0.00 | 4,423.06 | 4,556.74 | 1,087.66 | 4,384.94 | 4,176.56 | 6.88 | -1.88 | 0.754 |
| 40.00 | -48.17 | -51.77 | 0.00 | -4,158.9 | 0.00 | 4,158.92 | 4,473.02 | 1,060.92 | 4,172.03 | 3,998.06 | 9 | -2.16 | 0.733 |
| 42.96 | -46.88 | -51.10 | 0.00 | -4,005.9 | 0.00 | 4,005.87 | 4,422.84 | 1,045.11 | 4,048.62 | 3,893.71 | 10.39 | -2.32 | 0.721 |
| 45.00 | -45.51 | -50.38 | 0.00 | -3,901.5 | 0.00 | 3,901.46 | 4,378.05 | 1,034.19 | 3,964.41 | 3,813.57 | 11.41 | -2.44 | 0.707 |
| 49.04 | -42.97 | -49.56 | 0.00 | -3,698.0 | 0.00 | 3,697.95 | 3,604.18 | 884.90 | 3,386.08 | 3,138.53 | 13.57 | -2.66 | 0.782 |
| 50.00 | -42.50 | -48.95 | 0.00 | -3,650.4 | 0.00 | 3,650.37 | 3,591.52 | 880.50 | 3,352.48 | 3,111.81 | 14.11 | -2.71 | 0.777 |
| 55.00 | -40.52 | -47.63 | 0.00 | -3,405.6 | 0.00 | 3,405.65 | 3,524.72 | 857.58 | 3,180.26 | 2,973.74 | 17.1 | -3 | 0.750 |
| 60.00 | -38.57 | -46.31 | 0.00 | -3,167.5 | 0.00 | 3,167.48 | 3,456.50 | 834.66 | 3,012.57 | 2,837.55 | 20.4 | -3.29 | 0.721 |
| 65.00 | -36.67 | -44.97 | 0.00 | -2,935.9 | 0.00 | 2,935.94 | 3,386.84 | 811.74 | 2,849.42 | 2,703.31 | 24.01 | -3.58 | 0.693 |
| 70.00 | -34.81 | -43.63 | 0.00 | -2,711.1 | 0.00 | 2,711.08 | 3,315.77 | 788.82 | 2,690.82 | 2,571.14 | 27.91 | -3.87 | 0.663 |
| 75.00 | -32.99 | -42.28 | 0.00 | -2,492.9 | 0.00 | 2,492.94 | 3,242.33 | 765.91 | 2,536.75 | 2,440.43 | 32.11 | -4.15 | 0.633 |
| 80.00 | -31.09 | -38.33 | 0.00 | -2,281.5 | 0.00 | 2,281.53 | 3,145.31 | 742.99 | 2,387.23 | 2,295.85 | 36.6 | -4.43 | 0.606 |
| 85.00 | -29.40 | -37.19 | 0.00 | -2,089.9 | 0.00 | 2,089.88 | 3,048.29 | 720.07 | 2,242.25 | 2,155.68 | 41.38 | -4.7 | 0.581 |
| 87.54 | -28.54 | -36.51 | 0.00 | -1,995.4 | 0.00 | 1,995.43 | 2,999.00 | 708.43 | 2,170.34 | 2,086.17 | 43.92 | -4.85 | 0.568 |
| 90.00 | -27.37 | -35.81 | 0.00 | -1,905.6 | 0.00 | 1,905.61 | 2,951.27 | 697.15 | 2,101.81 | 2,019.93 | 46.45 | -4.98 | 0.548 |
| 92.46 | -26.24 | -35.27 | 0.00 | -1,817.6 | 0.00 | 1,817.65 | 2,412.09 | 583.54 | 1,767.02 | 1,661.39 | 49.05 | -5.11 | 0.598 |
| 93.00 | -26.06 | -34.96 | 0.00 | -1,798.5 | 0.00 | 1,798.48 | 2,405.87 | 581.47 | 1,754.47 | 1,651.16 | 49.63 | -5.14 | 0.594 |
| 95.00 | -25.23 | -34.08 | 0.00 | -1,728.5 | 0.00 | 1,728.54 | 2,382.84 | 573.83 | 1,708.68 | 1,613.66 | 51.81 | -5.26 | 0.579 |
| 97.00 | -24.62 | -33.42 | 0.00 | -1,660.4 | 0.00 | 1,660.38 | 2,359.57 | 566.19 | 1,663.49 | 1,576.43 | 54.04 | -5.37 | 0.564 |
| 100.00 | -23.72 | -32.45 | 0.00 | -1,560.1 | 0.00 | 1,560.14 | 2,324.24 | 554.73 | 1,596.85 | 1,521.10 | 57.46 | -5.54 | 0.542 |
| 105.00 | -22.30 | -31.50 | 0.00 | -1,397.9 | 0.00 | 1,397.88 | 2,264.22 | 535.63 | 1,488.80 | 1,430.31 | 63.4 | -5.81 | 0.505 |
| 105.36 | -22.18 | -31.06 | 0.00 | -1,386.5 | 0.00 | 1,386.54 | 2,259.84 | 534.25 | 1,481.17 | 1,423.84 | 63.84 | -5.83 | 0.502 |
| 105.36 | -22.18 | -31.06 | 0.00 | -1,386.5 | 0.00 | 1,386.54 | 2,259.84 | 534.25 | 1,481.17 | 1,423.84 | 63.84 | -5.83 | 0.987 |
| 110.00 | -21.17 | -29.90 | 0.00 | -1,242.4 | 0.00 | 1,242.43 | 2,186.65 | 516.53 | 1,384.54 | 1,331.56 | 69.62 | -6.07 | 0.946 |
| 115.00 | -20.14 | -28.77 | 0.00 | -1,093.0 | 0.00 | 1,092.95 | 2,105.79 | 497.43 | 1,284.06 | 1,234.41 | 76.24 | -6.58 | 0.898 |
| 120.00 | -19.23 | -28.04 | 0.00 | -949.1 | 0.00 | 949.09 | 2,024.94 | 478.33 | 1,187.37 | 1,140.95 | 83.39 | -7.08 | 0.845 |
| 121.00 | -15.27 | -21.59 | 0.00 | -921.0 | 0.00 | 921.05 | 2,008.77 | 474.51 | 1,168.48 | 1,122.70 | 84.88 | -7.18 | 0.830 |
| 125.00 | -14.54 | -21.18 | 0.00 | -834.7 | 0.00 | 834.67 | 1,944.09 | 459.23 | 1,094.46 | 1,051.17 | 91.04 | -7.57 | 0.804 |
| 130.00 | -13.70 | -20.81 | 0.00 | -728.8 | 0.00 | 728.76 | 1,863.24 | 440.14 | 1,005.33 | 965.06 | 99.21 | -8.06 | 0.765 |
| 132.12 | -13.33 | -20.53 | 0.00 | -684.6 | 0.00 | 684.65 | 1,828.96 | 432.04 | 968.69 | 929.67 | 102.82 | -8.27 | 0.746 |
| 135.00 | -12.71 | -20.25 | 0.00 | -625.5 | 0.00 | 625.51 | 1,782.39 | 421.04 | 919.99 | 882.64 | 107.88 | -8.55 | 0.718 |
| 135.75 | -12.55 | -20.18 | 0.00 | -610.3 | 0.00 | 610.32 | 1,770.26 | 418.17 | 907.52 | 870.59 | 109.22 | -8.62 | 0.710 |
| 135.87 | -12.52 | -19.96 | 0.00 | -607.9 | 0.00 | 607.90 | 993.96 | 255.85 | 566.11 | 501.11 | 109.44 | -8.63 | 0.530 |
| 139.50 | -11.85 | -19.58 | 0.00 | -535.4 | 0.00 | 535.44 | 972.83 | 247.53 | 529.89 | 474.38 | 116.05 | -8.82 | 0.484 |
| 140.00 | -11.00 | -18.45 | 0.00 | -525.6 | 0.00 | 525.65 | 969.86 | 246.38 | 525.00 | 470.72 | 116.97 | -8.85 | 0.476 |
| 142.00 | -10.66 | -18.04 | 0.00 | -488.7 | 0.00 | 488.74 | 957.83 | 241.80 | 505.65 | 456.17 | 120.69 | -8.97 | 0.452 |
| 145.00 | -10.14 | -17.73 | 0.00 | -434.6 | 0.00 | 434.61 | 939.37 | 234.93 | 477.30 | 434.56 | 126.36 | -9.14 | 0.414 |
| 146.00 | -9.98 | -17.28 | 0.00 | -416.9 | 0.00 | 416.88 | 933.10 | 232.63 | 468.04 | 427.41 | 128.28 | -9.2 | 0.401 |
| 147.00 | -9.83 | -16.53 | 0.00 | -399.6 | 0.00 | 399.61 | 926.77 | 230.34 | 458.86 | 420.30 | 130.2 | -9.26 | 0.389 |
| 147.25 | -9.80 | -16.35 | 0.00 | -395.5 | 0.00 | 395.47 | 925.18 | 229.77 | 456.58 | 418.52 | 130.69 | -9.27 | 0.386 |
| 147.25 | -9.80 | -16.35 | 0.00 | -395.5 | 0.00 | 395.47 | 925.18 | 229.77 | 456.58 | 418.52 | 130.69 | -9.27 | 0.961 |
| 150.00 | -9.55 | -16.06 | 0.00 | -350.5 | 0.00 | 350.51 | 907.46 | 223.47 | 431.88 | 399.15 | 136.05 | -9.42 | 0.894 |
| 150.10 | -9.47 | -15.09 | 0.00 | -348.9 | 0.00 | 348.90 | 906.80 | 223.24 | 431.00 | 398.45 | 136.24 | -9.43 | 0.891 |
| 155.00 | -8.97 | -14.67 | 0.00 | -275.0 | 0.00 | 274.98 | 874.12 | 212.01 | 388.73 | 364.59 | 146.19 | -10.02 | 0.769 |
| 159.30 | -8.22 | -14.15 | 0.00 | -211.9 | 0.00 | 211.92 | 844.30 | 202.15 | 353.43 | 335.64 | 155.4 | -10.5 | 0.646 |
| 160.00 | -8.14 | -13.92 | 0.00 | -202.0 | 0.00 | 202.01 | 839.35 | 200.55 | 347.85 | 331.00 | 156.93 | -10.57 | 0.625 |
| 165.00 | -7.71 | -13.60 | 0.00 | -132.4 | 0.00 | 132.43 | 800.48 | 189.09 | 309.24 | 297.46 | 168.19 | -11.02 | 0.460 |
| 166.00 | -4.24 | -7.96 | 0.00 | -118.8 | 0.00 | 118.84 | 790.77 | 186.80 | 301.79 | 290.25 | 170.49 | -11.1 | 0.417 |
| 170.00 | -3.97 | -7.63 | 0.00 | -87.0 | 0.00 | 87.01 | 751.97 | 177.63 | 272.90 | 262.32 | 179.85 | -11.37 | 0.339 |

| CALCULATED FORCES | | | | | | | | | | | | | |
|-------------------|-------|-------|------|-------|------|-------|--------|--------|--------|--------|--------|--------|-------|
| 175.00 | -3.64 | -7.27 | 0.00 | -48.9 | 0.00 | 48.86 | 703.45 | 166.17 | 238.83 | 229.40 | 191.83 | -11.63 | 0.220 |
| 180.00 | 0.00 | -6.38 | 0.00 | -12.5 | 0.00 | 12.52 | 654.94 | 154.71 | 207.03 | 198.68 | 204.02 | -11.78 | 0.065 |

CALCULATED FORCES

Load Case: 0.9D + 1.0W

124 mph Wind with No Ice (Reduced DL)

28 Iterations

Gust Response Factor: 1.10
Dead load Factor: 0.90
Wind Load Factor: 1.00

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (ft-kips) | Phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|---------------------|---------------------|------------------------|------------------------|--------------------------|-------------------|-------|
| 0.00 | -50.49 | -59.36 | 0.00 | -6,314.3 | 0.00 | 6,314.34 | 5,102.86 | 1,274.83 | 6,023.66 | 5,489.79 | 0 | 0 | 0.863 |
| 5.00 | -48.52 | -58.41 | 0.00 | -6,017.5 | 0.00 | 6,017.54 | 5,029.12 | 1,248.09 | 5,773.66 | 5,296.04 | 0.14 | -0.26 | 0.847 |
| 10.00 | -46.59 | -57.46 | 0.00 | -5,725.5 | 0.00 | 5,725.47 | 4,953.96 | 1,221.35 | 5,528.96 | 5,104.17 | 0.55 | -0.52 | 0.830 |
| 15.00 | -44.68 | -56.51 | 0.00 | -5,438.2 | 0.00 | 5,438.15 | 4,877.37 | 1,194.61 | 5,289.56 | 4,914.29 | 1.24 | -0.78 | 0.813 |
| 20.00 | -42.80 | -55.56 | 0.00 | -5,155.6 | 0.00 | 5,155.60 | 4,799.35 | 1,167.88 | 5,055.46 | 4,726.50 | 2.2 | -1.05 | 0.795 |
| 25.00 | -40.96 | -54.60 | 0.00 | -4,877.8 | 0.00 | 4,877.82 | 4,719.91 | 1,141.14 | 4,826.65 | 4,540.87 | 3.44 | -1.31 | 0.776 |
| 30.00 | -39.14 | -53.60 | 0.00 | -4,604.8 | 0.00 | 4,604.84 | 4,639.04 | 1,114.40 | 4,603.14 | 4,357.53 | 4.97 | -1.58 | 0.757 |
| 35.00 | -37.37 | -52.35 | 0.00 | -4,336.8 | 0.00 | 4,336.85 | 4,556.74 | 1,087.66 | 4,384.94 | 4,176.56 | 6.77 | -1.85 | 0.737 |
| 40.00 | -35.68 | -51.25 | 0.00 | -4,075.1 | 0.00 | 4,075.13 | 4,473.02 | 1,060.92 | 4,172.03 | 3,998.06 | 8.85 | -2.12 | 0.717 |
| 42.96 | -34.68 | -50.56 | 0.00 | -3,923.6 | 0.00 | 3,923.60 | 4,422.84 | 1,045.11 | 4,048.62 | 3,893.71 | 10.21 | -2.28 | 0.704 |
| 45.00 | -33.63 | -49.82 | 0.00 | -3,820.3 | 0.00 | 3,820.27 | 4,378.05 | 1,034.19 | 3,964.41 | 3,813.57 | 11.21 | -2.39 | 0.691 |
| 49.04 | -31.71 | -49.00 | 0.00 | -3,619.0 | 0.00 | 3,619.02 | 3,604.18 | 884.90 | 3,386.08 | 3,138.53 | 13.33 | -2.61 | 0.763 |
| 50.00 | -31.34 | -48.36 | 0.00 | -3,572.0 | 0.00 | 3,571.98 | 3,591.52 | 880.50 | 3,352.48 | 3,111.81 | 13.87 | -2.66 | 0.758 |
| 55.00 | -29.81 | -47.01 | 0.00 | -3,330.2 | 0.00 | 3,330.19 | 3,524.72 | 857.58 | 3,180.26 | 2,973.74 | 16.81 | -2.95 | 0.731 |
| 60.00 | -28.32 | -45.66 | 0.00 | -3,095.1 | 0.00 | 3,095.14 | 3,456.50 | 834.66 | 3,012.57 | 2,837.55 | 20.05 | -3.23 | 0.703 |
| 65.00 | -26.87 | -44.30 | 0.00 | -2,866.9 | 0.00 | 2,866.86 | 3,386.84 | 811.74 | 2,849.42 | 2,703.31 | 23.58 | -3.51 | 0.674 |
| 70.00 | -25.45 | -42.93 | 0.00 | -2,645.4 | 0.00 | 2,645.38 | 3,315.77 | 788.82 | 2,690.82 | 2,571.14 | 27.41 | -3.79 | 0.645 |
| 75.00 | -24.06 | -41.57 | 0.00 | -2,430.7 | 0.00 | 2,430.72 | 3,242.33 | 765.91 | 2,536.75 | 2,440.43 | 31.52 | -4.07 | 0.615 |
| 80.00 | -22.67 | -37.61 | 0.00 | -2,222.9 | 0.00 | 2,222.86 | 3,145.31 | 742.99 | 2,387.23 | 2,295.85 | 35.93 | -4.34 | 0.588 |
| 85.00 | -21.39 | -36.48 | 0.00 | -2,034.8 | 0.00 | 2,034.79 | 3,048.29 | 720.07 | 2,242.25 | 2,155.68 | 40.61 | -4.61 | 0.564 |
| 87.54 | -20.74 | -35.80 | 0.00 | -1,942.1 | 0.00 | 1,942.14 | 2,999.00 | 708.43 | 2,170.34 | 2,086.17 | 43.1 | -4.75 | 0.551 |
| 90.00 | -19.86 | -35.10 | 0.00 | -1,854.1 | 0.00 | 1,854.08 | 2,951.27 | 697.15 | 2,101.81 | 2,019.93 | 45.58 | -4.88 | 0.532 |
| 92.46 | -19.01 | -34.58 | 0.00 | -1,767.8 | 0.00 | 1,767.85 | 2,412.09 | 583.54 | 1,767.02 | 1,661.39 | 48.12 | -5.01 | 0.579 |
| 93.00 | -18.87 | -34.26 | 0.00 | -1,749.1 | 0.00 | 1,749.06 | 2,405.87 | 581.47 | 1,754.47 | 1,651.16 | 48.69 | -5.04 | 0.576 |
| 95.00 | -18.26 | -33.39 | 0.00 | -1,680.5 | 0.00 | 1,680.51 | 2,382.84 | 573.83 | 1,708.68 | 1,613.66 | 50.82 | -5.15 | 0.561 |
| 97.00 | -17.80 | -32.72 | 0.00 | -1,613.7 | 0.00 | 1,613.74 | 2,359.57 | 566.19 | 1,663.49 | 1,576.43 | 53 | -5.26 | 0.547 |
| 100.00 | -17.12 | -31.75 | 0.00 | -1,515.6 | 0.00 | 1,515.57 | 2,324.24 | 554.73 | 1,596.85 | 1,521.10 | 56.35 | -5.42 | 0.525 |
| 105.00 | -16.06 | -30.82 | 0.00 | -1,356.8 | 0.00 | 1,356.82 | 2,264.22 | 535.63 | 1,488.80 | 1,430.31 | 62.16 | -5.68 | 0.489 |
| 105.36 | -15.96 | -30.37 | 0.00 | -1,345.7 | 0.00 | 1,345.72 | 2,259.84 | 534.25 | 1,481.17 | 1,423.84 | 62.59 | -5.7 | 0.486 |
| 105.36 | -15.96 | -30.37 | 0.00 | -1,345.7 | 0.00 | 1,345.72 | 2,259.84 | 534.25 | 1,481.17 | 1,423.84 | 62.59 | -5.7 | 0.955 |
| 110.00 | -15.20 | -29.19 | 0.00 | -1,204.8 | 0.00 | 1,204.82 | 2,186.65 | 516.53 | 1,384.54 | 1,331.56 | 68.25 | -5.94 | 0.915 |
| 115.00 | -14.40 | -28.04 | 0.00 | -1,058.9 | 0.00 | 1,058.89 | 2,105.79 | 497.43 | 1,284.06 | 1,234.41 | 74.72 | -6.43 | 0.868 |
| 120.00 | -13.72 | -27.30 | 0.00 | -918.7 | 0.00 | 918.71 | 2,024.94 | 478.33 | 1,187.37 | 1,140.95 | 81.7 | -6.91 | 0.815 |
| 121.00 | -10.90 | -20.99 | 0.00 | -891.4 | 0.00 | 891.41 | 2,008.77 | 474.51 | 1,168.48 | 1,122.70 | 83.15 | -7.01 | 0.801 |
| 125.00 | -10.33 | -20.56 | 0.00 | -807.5 | 0.00 | 807.47 | 1,944.09 | 459.23 | 1,094.46 | 1,051.17 | 89.17 | -7.39 | 0.775 |
| 130.00 | -9.68 | -20.19 | 0.00 | -704.7 | 0.00 | 704.67 | 1,863.24 | 440.14 | 1,005.33 | 965.06 | 97.14 | -7.86 | 0.737 |
| 132.12 | -9.40 | -19.91 | 0.00 | -661.9 | 0.00 | 661.88 | 1,828.96 | 432.04 | 968.69 | 929.67 | 100.66 | -8.06 | 0.719 |
| 135.00 | -8.93 | -19.64 | 0.00 | -604.5 | 0.00 | 604.54 | 1,782.39 | 421.04 | 919.99 | 882.64 | 105.6 | -8.33 | 0.692 |
| 135.75 | -8.81 | -19.57 | 0.00 | -589.8 | 0.00 | 589.81 | 1,770.26 | 418.17 | 907.52 | 870.59 | 106.91 | -8.4 | 0.685 |
| 135.87 | -8.79 | -19.34 | 0.00 | -587.5 | 0.00 | 587.47 | 993.96 | 255.85 | 566.11 | 501.11 | 107.12 | -8.42 | 0.511 |
| 139.50 | -8.29 | -18.99 | 0.00 | -517.2 | 0.00 | 517.25 | 972.83 | 247.53 | 529.89 | 474.38 | 113.56 | -8.59 | 0.466 |
| 140.00 | -7.68 | -17.89 | 0.00 | -507.8 | 0.00 | 507.76 | 969.86 | 246.38 | 525.00 | 470.72 | 114.46 | -8.62 | 0.459 |
| 142.00 | -7.43 | -17.49 | 0.00 | -472.0 | 0.00 | 471.98 | 957.83 | 241.80 | 505.65 | 456.17 | 118.09 | -8.74 | 0.435 |
| 145.00 | -7.05 | -17.19 | 0.00 | -419.5 | 0.00 | 419.51 | 939.37 | 234.93 | 477.30 | 434.56 | 123.61 | -8.91 | 0.399 |
| 146.00 | -6.94 | -16.74 | 0.00 | -402.3 | 0.00 | 402.32 | 933.10 | 232.63 | 468.04 | 427.41 | 125.48 | -8.96 | 0.386 |
| 147.00 | -6.85 | -16.01 | 0.00 | -385.6 | 0.00 | 385.58 | 926.77 | 230.34 | 458.86 | 420.30 | 127.35 | -9.02 | 0.374 |
| 147.25 | -6.82 | -15.82 | 0.00 | -381.6 | 0.00 | 381.58 | 925.18 | 229.77 | 456.58 | 418.52 | 127.82 | -9.03 | 0.371 |
| 147.25 | -6.82 | -15.82 | 0.00 | -381.6 | 0.00 | 381.58 | 925.18 | 229.77 | 456.58 | 418.52 | 127.82 | -9.03 | 0.924 |
| 150.00 | -6.65 | -15.54 | 0.00 | -338.1 | 0.00 | 338.07 | 907.46 | 223.47 | 431.88 | 399.15 | 133.05 | -9.17 | 0.859 |
| 150.10 | -6.61 | -14.55 | 0.00 | -336.5 | 0.00 | 336.52 | 906.80 | 223.24 | 431.00 | 398.45 | 133.24 | -9.18 | 0.856 |
| 155.00 | -6.22 | -14.13 | 0.00 | -265.2 | 0.00 | 265.21 | 874.12 | 212.01 | 388.73 | 364.59 | 142.93 | -9.76 | 0.739 |
| 159.30 | -5.67 | -13.63 | 0.00 | -204.5 | 0.00 | 204.46 | 844.30 | 202.15 | 353.43 | 335.64 | 151.89 | -10.21 | 0.620 |
| 160.00 | -5.61 | -13.39 | 0.00 | -194.9 | 0.00 | 194.92 | 839.35 | 200.55 | 347.85 | 331.00 | 153.38 | -10.29 | 0.600 |
| 165.00 | -5.29 | -13.08 | 0.00 | -128.0 | 0.00 | 127.97 | 800.48 | 189.09 | 309.24 | 297.46 | 164.34 | -10.72 | 0.442 |
| 166.00 | -2.88 | -7.66 | 0.00 | -114.9 | 0.00 | 114.89 | 790.77 | 186.80 | 301.79 | 290.25 | 166.58 | -10.79 | 0.401 |

| CALCULATED FORCES | | | | | | | | | | | | | |
|-------------------|-------|-------|------|-------|------|-------|--------|--------|--------|--------|--------|--------|-------|
| 170.00 | -2.68 | -7.35 | 0.00 | -84.2 | 0.00 | 84.23 | 751.97 | 177.63 | 272.90 | 262.32 | 175.69 | -11.06 | 0.326 |
| 175.00 | -2.45 | -7.00 | 0.00 | -47.5 | 0.00 | 47.51 | 703.45 | 166.17 | 238.83 | 229.40 | 187.34 | -11.31 | 0.212 |
| 180.00 | 0.00 | -6.38 | 0.00 | -12.5 | 0.00 | 12.52 | 654.94 | 154.71 | 207.03 | 198.68 | 199.2 | -11.45 | 0.065 |

ASSET: 302506, Winchester CT 3
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14867785_C4_04

CALCULATED FORCES

| Load Case: 1.2D + 1.0Di + 1.0Wi | | | 50 mph Wind with 1" Radial Ice | | | | | | | | 28 Iterations | | | |
|---------------------------------|--------|--------|--------------------------------|-----------|-----------|-----------|----------|----------|-----------|-----------|-----------------------|----------|-------|--|
| Gust Response Factor: | | 1.10 | Ice Dead Load Factor | | 1.00 | | | | | | | | | |
| Dead load Factor: | | 1.20 | | | | | | | | | Ice Importance Factor | | 1.15 | |
| Wind Load Factor: | | 1.00 | | | | | | | | | | | | |
| Seg | Pu | Vu | Tu | Mu | Mu | Resultant | Phi | Phi | Phi | Phi | Total | Rotation | | |
| Elev | FY (-) | FX (-) | MY | MZ | MX | Moment | Pn | Vn | Tn | Mn | Deflect | (deg) | Ratio | |
| (ft) | (kips) | (kips) | (ft-kips) | (ft-kips) | (ft-kips) | (ft-kips) | (kips) | (kips) | (ft-kips) | (ft-kips) | (in) | | | |
| 0.00 | -98.28 | -11.18 | 0.00 | -1,381.7 | 0.00 | 1,381.71 | 5,102.86 | 1,274.83 | 6,023.66 | 5,489.79 | 0 | 0 | 0.202 | |
| 5.00 | -95.43 | -11.06 | 0.00 | -1,325.8 | 0.00 | 1,325.80 | 5,029.12 | 1,248.09 | 5,773.66 | 5,296.04 | 0.03 | -0.06 | 0.199 | |
| 10.00 | -92.55 | -10.94 | 0.00 | -1,270.5 | 0.00 | 1,270.50 | 4,953.96 | 1,221.35 | 5,528.96 | 5,104.17 | 0.12 | -0.11 | 0.197 | |
| 15.00 | -89.69 | -10.82 | 0.00 | -1,215.8 | 0.00 | 1,215.79 | 4,877.37 | 1,194.61 | 5,289.56 | 4,914.29 | 0.27 | -0.17 | 0.194 | |
| 20.00 | -86.84 | -10.71 | 0.00 | -1,161.7 | 0.00 | 1,161.68 | 4,799.35 | 1,167.88 | 5,055.46 | 4,726.50 | 0.49 | -0.23 | 0.191 | |
| 25.00 | -84.02 | -10.59 | 0.00 | -1,108.1 | 0.00 | 1,108.14 | 4,719.91 | 1,141.14 | 4,826.65 | 4,540.87 | 0.76 | -0.29 | 0.188 | |
| 30.00 | -81.20 | -10.46 | 0.00 | -1,055.2 | 0.00 | 1,055.19 | 4,639.04 | 1,114.40 | 4,603.14 | 4,357.53 | 1.1 | -0.35 | 0.185 | |
| 35.00 | -78.44 | -10.34 | 0.00 | -1,002.9 | 0.00 | 1,002.86 | 4,556.74 | 1,087.66 | 4,384.94 | 4,176.56 | 1.51 | -0.42 | 0.182 | |
| 40.00 | -75.71 | -10.23 | 0.00 | -951.2 | 0.00 | 951.16 | 4,473.02 | 1,060.92 | 4,172.03 | 3,998.06 | 1.97 | -0.48 | 0.178 | |
| 42.96 | -74.12 | -10.17 | 0.00 | -920.9 | 0.00 | 920.90 | 4,422.84 | 1,045.11 | 4,048.62 | 3,893.71 | 2.28 | -0.52 | 0.176 | |
| 45.00 | -72.59 | -10.08 | 0.00 | -900.1 | 0.00 | 900.12 | 4,378.05 | 1,034.19 | 3,964.41 | 3,813.57 | 2.51 | -0.54 | 0.173 | |
| 49.04 | -69.59 | -9.99 | 0.00 | -859.4 | 0.00 | 859.40 | 3,604.18 | 884.90 | 3,386.08 | 3,138.53 | 2.99 | -0.59 | 0.193 | |
| 50.00 | -69.11 | -9.92 | 0.00 | -849.8 | 0.00 | 849.80 | 3,591.52 | 880.50 | 3,352.48 | 3,111.81 | 3.11 | -0.61 | 0.192 | |
| 55.00 | -66.63 | -9.77 | 0.00 | -800.2 | 0.00 | 800.21 | 3,524.72 | 857.58 | 3,180.26 | 2,973.74 | 3.78 | -0.67 | 0.187 | |
| 60.00 | -64.18 | -9.63 | 0.00 | -751.3 | 0.00 | 751.33 | 3,456.50 | 834.66 | 3,012.57 | 2,837.55 | 4.53 | -0.74 | 0.182 | |
| 65.00 | -61.77 | -9.47 | 0.00 | -703.2 | 0.00 | 703.21 | 3,386.84 | 811.74 | 2,849.42 | 2,703.31 | 5.34 | -0.81 | 0.176 | |
| 70.00 | -59.39 | -9.31 | 0.00 | -655.8 | 0.00 | 655.85 | 3,315.77 | 788.82 | 2,690.82 | 2,571.14 | 6.23 | -0.88 | 0.171 | |
| 75.00 | -57.04 | -9.15 | 0.00 | -609.3 | 0.00 | 609.28 | 3,242.33 | 765.91 | 2,536.75 | 2,440.43 | 7.19 | -0.95 | 0.165 | |
| 80.00 | -54.08 | -8.52 | 0.00 | -563.5 | 0.00 | 563.52 | 3,145.31 | 742.99 | 2,387.23 | 2,295.85 | 8.22 | -1.02 | 0.159 | |
| 85.00 | -51.81 | -8.38 | 0.00 | -520.9 | 0.00 | 520.92 | 3,048.29 | 720.07 | 2,242.25 | 2,155.68 | 9.32 | -1.09 | 0.154 | |
| 87.54 | -50.66 | -8.29 | 0.00 | -499.6 | 0.00 | 499.63 | 2,999.00 | 708.43 | 2,170.34 | 2,086.17 | 9.91 | -1.12 | 0.152 | |
| 90.00 | -49.22 | -8.20 | 0.00 | -479.2 | 0.00 | 479.22 | 2,951.27 | 697.15 | 2,101.81 | 2,019.93 | 10.49 | -1.16 | 0.147 | |
| 92.46 | -47.80 | -8.13 | 0.00 | -459.1 | 0.00 | 459.08 | 2,412.09 | 583.54 | 1,767.02 | 1,661.39 | 11.1 | -1.19 | 0.161 | |
| 93.00 | -47.55 | -8.08 | 0.00 | -454.7 | 0.00 | 454.66 | 2,405.87 | 581.47 | 1,754.47 | 1,651.16 | 11.23 | -1.2 | 0.160 | |
| 95.00 | -46.39 | -7.93 | 0.00 | -438.5 | 0.00 | 438.49 | 2,382.84 | 573.83 | 1,708.68 | 1,613.66 | 11.74 | -1.23 | 0.157 | |
| 97.00 | -45.55 | -7.83 | 0.00 | -422.6 | 0.00 | 422.64 | 2,359.57 | 566.19 | 1,663.49 | 1,576.43 | 12.26 | -1.25 | 0.153 | |
| 100.00 | -44.32 | -7.70 | 0.00 | -399.1 | 0.00 | 399.14 | 2,324.24 | 554.73 | 1,596.85 | 1,521.10 | 13.06 | -1.3 | 0.148 | |
| 105.00 | -42.30 | -7.57 | 0.00 | -360.6 | 0.00 | 360.65 | 2,264.22 | 535.63 | 1,488.80 | 1,430.31 | 14.46 | -1.37 | 0.139 | |
| 105.36 | -42.15 | -7.51 | 0.00 | -357.9 | 0.00 | 357.92 | 2,259.84 | 534.25 | 1,481.17 | 1,423.84 | 14.56 | -1.37 | 0.139 | |
| 105.36 | -42.15 | -7.51 | 0.00 | -357.9 | 0.00 | 357.92 | 2,259.84 | 534.25 | 1,481.17 | 1,423.84 | 14.56 | -1.37 | 0.270 | |
| 110.00 | -40.67 | -7.36 | 0.00 | -323.1 | 0.00 | 323.10 | 2,186.65 | 516.53 | 1,384.54 | 1,331.56 | 15.93 | -1.43 | 0.261 | |
| 115.00 | -39.22 | -7.24 | 0.00 | -286.3 | 0.00 | 286.29 | 2,105.79 | 497.43 | 1,284.06 | 1,234.41 | 17.5 | -1.57 | 0.251 | |
| 120.00 | -37.89 | -7.14 | 0.00 | -250.1 | 0.00 | 250.12 | 2,024.94 | 478.33 | 1,187.37 | 1,140.95 | 19.21 | -1.7 | 0.238 | |
| 121.00 | -29.46 | -5.66 | 0.00 | -243.0 | 0.00 | 242.97 | 2,008.77 | 474.51 | 1,168.48 | 1,122.70 | 19.57 | -1.72 | 0.231 | |
| 125.00 | -28.54 | -5.56 | 0.00 | -220.3 | 0.00 | 220.34 | 1,944.09 | 459.23 | 1,094.46 | 1,051.17 | 21.06 | -1.83 | 0.224 | |
| 130.00 | -27.42 | -5.46 | 0.00 | -192.6 | 0.00 | 192.55 | 1,863.24 | 440.14 | 1,005.33 | 965.06 | 23.04 | -1.96 | 0.214 | |
| 132.12 | -26.96 | -5.41 | 0.00 | -181.0 | 0.00 | 180.98 | 1,828.96 | 432.04 | 968.69 | 929.67 | 23.92 | -2.01 | 0.210 | |
| 135.00 | -26.15 | -5.35 | 0.00 | -165.4 | 0.00 | 165.40 | 1,782.39 | 421.04 | 919.99 | 882.64 | 25.16 | -2.09 | 0.202 | |
| 135.75 | -25.94 | -5.33 | 0.00 | -161.4 | 0.00 | 161.39 | 1,770.26 | 418.17 | 907.52 | 870.59 | 25.49 | -2.1 | 0.200 | |
| 135.87 | -25.90 | -5.29 | 0.00 | -160.8 | 0.00 | 160.75 | 993.96 | 255.85 | 566.11 | 501.11 | 25.54 | -2.11 | 0.149 | |
| 139.50 | -24.93 | -5.21 | 0.00 | -141.5 | 0.00 | 141.54 | 972.83 | 247.53 | 529.89 | 474.38 | 27.16 | -2.16 | 0.137 | |
| 140.00 | -23.65 | -4.93 | 0.00 | -138.9 | 0.00 | 138.93 | 969.86 | 246.38 | 525.00 | 470.72 | 27.39 | -2.17 | 0.134 | |
| 142.00 | -23.14 | -4.85 | 0.00 | -129.1 | 0.00 | 129.07 | 957.83 | 241.80 | 505.65 | 456.17 | 28.3 | -2.2 | 0.128 | |
| 145.00 | -22.41 | -4.78 | 0.00 | -114.5 | 0.00 | 114.52 | 939.37 | 234.93 | 477.30 | 434.56 | 29.7 | -2.24 | 0.117 | |
| 146.00 | -22.04 | -4.65 | 0.00 | -109.8 | 0.00 | 109.75 | 933.10 | 232.63 | 468.04 | 427.41 | 30.17 | -2.26 | 0.114 | |
| 147.00 | -21.53 | -4.45 | 0.00 | -105.1 | 0.00 | 105.09 | 926.77 | 230.34 | 458.86 | 420.30 | 30.65 | -2.27 | 0.110 | |
| 147.25 | -21.47 | -4.42 | 0.00 | -104.0 | 0.00 | 103.98 | 925.18 | 229.77 | 456.58 | 418.52 | 30.76 | -2.28 | 0.109 | |
| 147.25 | -21.47 | -4.42 | 0.00 | -104.0 | 0.00 | 103.98 | 925.18 | 229.77 | 456.58 | 418.52 | 30.76 | -2.28 | 0.272 | |
| 150.00 | -21.00 | -4.32 | 0.00 | -91.8 | 0.00 | 91.83 | 907.46 | 223.47 | 431.88 | 399.15 | 32.09 | -2.31 | 0.254 | |
| 150.10 | -20.61 | -4.02 | 0.00 | -91.4 | 0.00 | 91.40 | 906.80 | 223.24 | 431.00 | 398.45 | 32.14 | -2.32 | 0.252 | |
| 155.00 | -19.87 | -3.92 | 0.00 | -71.7 | 0.00 | 71.71 | 874.12 | 212.01 | 388.73 | 364.59 | 34.6 | -2.47 | 0.220 | |
| 159.30 | -18.66 | -3.79 | 0.00 | -54.8 | 0.00 | 54.83 | 844.30 | 202.15 | 353.43 | 335.64 | 36.88 | -2.6 | 0.186 | |
| 160.00 | -18.56 | -3.75 | 0.00 | -52.2 | 0.00 | 52.18 | 839.35 | 200.55 | 347.85 | 331.00 | 37.27 | -2.62 | 0.180 | |
| 165.00 | -17.86 | -3.66 | 0.00 | -33.4 | 0.00 | 33.44 | 800.48 | 189.09 | 309.24 | 297.46 | 40.07 | -2.73 | 0.135 | |
| 166.00 | -9.53 | -2.06 | 0.00 | -29.8 | 0.00 | 29.78 | 790.77 | 186.80 | 301.79 | 290.25 | 40.64 | -2.75 | 0.115 | |

| CALCULATED FORCES | | | | | | | | | | | | | |
|-------------------|-------|-------|------|-------|------|-------|--------|--------|--------|--------|-------|-------|-------|
| 170.00 | -9.09 | -1.95 | 0.00 | -21.6 | 0.00 | 21.55 | 751.97 | 177.63 | 272.90 | 262.32 | 42.98 | -2.82 | 0.094 |
| 175.00 | -8.55 | -1.84 | 0.00 | -11.8 | 0.00 | 11.78 | 703.45 | 166.17 | 238.83 | 229.40 | 45.96 | -2.88 | 0.064 |
| 180.00 | 0.00 | -1.40 | 0.00 | -2.6 | 0.00 | 2.59 | 654.94 | 154.71 | 207.03 | 198.68 | 49 | -2.92 | 0.013 |

ASSET: 302506, Winchester CT 3
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14867785_C4_04

CALCULATED FORCES

Load Case: 1.0D + 1.0W

60 mph Wind with No Ice

27 Iterations

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

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (ft-kips) | Phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|---------------------|---------------------|------------------------|------------------------|--------------------------|-------------------|-------|
| 0.00 | -56.25 | -12.44 | 0.00 | -1,333.6 | 0.00 | 1,333.64 | 5,102.86 | 1,274.83 | 6,023.66 | 5,489.79 | 0 | 0 | 0.189 |
| 5.00 | -54.34 | -12.25 | 0.00 | -1,271.4 | 0.00 | 1,271.45 | 5,029.12 | 1,248.09 | 5,773.66 | 5,296.04 | 0.03 | -0.05 | 0.185 |
| 10.00 | -52.46 | -12.05 | 0.00 | -1,210.2 | 0.00 | 1,210.23 | 4,953.96 | 1,221.35 | 5,528.96 | 5,104.17 | 0.12 | -0.11 | 0.182 |
| 15.00 | -50.60 | -11.86 | 0.00 | -1,150.0 | 0.00 | 1,149.97 | 4,877.37 | 1,194.61 | 5,289.56 | 4,914.29 | 0.26 | -0.17 | 0.178 |
| 20.00 | -48.78 | -11.66 | 0.00 | -1,090.7 | 0.00 | 1,090.68 | 4,799.35 | 1,167.88 | 5,055.46 | 4,726.50 | 0.47 | -0.22 | 0.174 |
| 25.00 | -46.97 | -11.47 | 0.00 | -1,032.4 | 0.00 | 1,032.36 | 4,719.91 | 1,141.14 | 4,826.65 | 4,540.87 | 0.73 | -0.28 | 0.170 |
| 30.00 | -45.19 | -11.26 | 0.00 | -975.0 | 0.00 | 975.03 | 4,639.04 | 1,114.40 | 4,603.14 | 4,357.53 | 1.05 | -0.33 | 0.166 |
| 35.00 | -43.44 | -11.01 | 0.00 | -918.7 | 0.00 | 918.71 | 4,556.74 | 1,087.66 | 4,384.94 | 4,176.56 | 1.43 | -0.39 | 0.162 |
| 40.00 | -41.72 | -10.78 | 0.00 | -863.7 | 0.00 | 863.68 | 4,473.02 | 1,060.92 | 4,172.03 | 3,998.06 | 1.87 | -0.45 | 0.157 |
| 42.96 | -40.71 | -10.64 | 0.00 | -831.8 | 0.00 | 831.81 | 4,422.84 | 1,045.11 | 4,048.62 | 3,893.71 | 2.16 | -0.48 | 0.155 |
| 45.00 | -39.66 | -10.49 | 0.00 | -810.1 | 0.00 | 810.07 | 4,378.05 | 1,034.19 | 3,964.41 | 3,813.57 | 2.37 | -0.51 | 0.152 |
| 49.04 | -37.61 | -10.31 | 0.00 | -767.7 | 0.00 | 767.71 | 3,604.18 | 884.90 | 3,386.08 | 3,138.53 | 2.82 | -0.55 | 0.168 |
| 50.00 | -37.31 | -10.18 | 0.00 | -757.8 | 0.00 | 757.81 | 3,591.52 | 880.50 | 3,352.48 | 3,111.81 | 2.93 | -0.56 | 0.166 |
| 55.00 | -35.79 | -9.91 | 0.00 | -706.9 | 0.00 | 706.89 | 3,524.72 | 857.58 | 3,180.26 | 2,973.74 | 3.56 | -0.62 | 0.161 |
| 60.00 | -34.29 | -9.63 | 0.00 | -657.4 | 0.00 | 657.36 | 3,456.50 | 834.66 | 3,012.57 | 2,837.55 | 4.24 | -0.68 | 0.155 |
| 65.00 | -32.81 | -9.35 | 0.00 | -609.2 | 0.00 | 609.23 | 3,386.84 | 811.74 | 2,849.42 | 2,703.31 | 4.99 | -0.74 | 0.148 |
| 70.00 | -31.35 | -9.06 | 0.00 | -562.5 | 0.00 | 562.50 | 3,315.77 | 788.82 | 2,690.82 | 2,571.14 | 5.8 | -0.8 | 0.142 |
| 75.00 | -29.92 | -8.78 | 0.00 | -517.2 | 0.00 | 517.18 | 3,242.33 | 765.91 | 2,536.75 | 2,440.43 | 6.68 | -0.86 | 0.136 |
| 80.00 | -28.25 | -7.95 | 0.00 | -473.3 | 0.00 | 473.27 | 3,145.31 | 742.99 | 2,387.23 | 2,295.85 | 7.61 | -0.92 | 0.130 |
| 85.00 | -26.86 | -7.72 | 0.00 | -433.5 | 0.00 | 433.51 | 3,048.29 | 720.07 | 2,242.25 | 2,155.68 | 8.6 | -0.98 | 0.125 |
| 87.54 | -26.17 | -7.57 | 0.00 | -413.9 | 0.00 | 413.91 | 2,999.00 | 708.43 | 2,170.34 | 2,086.17 | 9.13 | -1.01 | 0.122 |
| 90.00 | -25.22 | -7.43 | 0.00 | -395.3 | 0.00 | 395.27 | 2,951.27 | 697.15 | 2,101.81 | 2,019.93 | 9.66 | -1.03 | 0.118 |
| 92.46 | -24.28 | -7.32 | 0.00 | -377.0 | 0.00 | 377.02 | 2,412.09 | 583.54 | 1,767.02 | 1,661.39 | 10.2 | -1.06 | 0.128 |
| 93.00 | -24.14 | -7.25 | 0.00 | -373.0 | 0.00 | 373.04 | 2,405.87 | 581.47 | 1,754.47 | 1,651.16 | 10.32 | -1.07 | 0.127 |
| 95.00 | -23.44 | -7.07 | 0.00 | -358.5 | 0.00 | 358.53 | 2,382.84 | 573.83 | 1,708.68 | 1,613.66 | 10.77 | -1.09 | 0.124 |
| 97.00 | -22.94 | -6.93 | 0.00 | -344.4 | 0.00 | 344.39 | 2,359.57 | 566.19 | 1,663.49 | 1,576.43 | 11.23 | -1.12 | 0.121 |
| 100.00 | -22.21 | -6.73 | 0.00 | -323.6 | 0.00 | 323.59 | 2,324.24 | 554.73 | 1,596.85 | 1,521.10 | 11.95 | -1.15 | 0.117 |
| 105.00 | -21.02 | -6.53 | 0.00 | -289.9 | 0.00 | 289.94 | 2,264.22 | 535.63 | 1,488.80 | 1,430.31 | 13.18 | -1.21 | 0.109 |
| 105.36 | -20.93 | -6.44 | 0.00 | -287.6 | 0.00 | 287.58 | 2,259.84 | 534.25 | 1,481.17 | 1,423.84 | 13.27 | -1.21 | 0.108 |
| 105.36 | -20.93 | -6.44 | 0.00 | -287.6 | 0.00 | 287.58 | 2,259.84 | 534.25 | 1,481.17 | 1,423.84 | 13.27 | -1.21 | 0.211 |
| 110.00 | -20.15 | -6.20 | 0.00 | -257.7 | 0.00 | 257.69 | 2,186.65 | 516.53 | 1,384.54 | 1,331.56 | 14.48 | -1.26 | 0.203 |
| 115.00 | -19.38 | -5.96 | 0.00 | -226.7 | 0.00 | 226.70 | 2,105.79 | 497.43 | 1,284.06 | 1,234.41 | 15.85 | -1.37 | 0.193 |
| 120.00 | -18.66 | -5.81 | 0.00 | -196.9 | 0.00 | 196.88 | 2,024.94 | 478.33 | 1,187.37 | 1,140.95 | 17.34 | -1.47 | 0.182 |
| 121.00 | -14.82 | -4.47 | 0.00 | -191.1 | 0.00 | 191.07 | 2,008.77 | 474.51 | 1,168.48 | 1,122.70 | 17.65 | -1.49 | 0.178 |
| 125.00 | -14.29 | -4.39 | 0.00 | -173.2 | 0.00 | 173.18 | 1,944.09 | 459.23 | 1,094.46 | 1,051.17 | 18.93 | -1.57 | 0.172 |
| 130.00 | -13.64 | -4.31 | 0.00 | -151.2 | 0.00 | 151.24 | 1,863.24 | 440.14 | 1,005.33 | 965.06 | 20.63 | -1.67 | 0.164 |
| 132.12 | -13.37 | -4.26 | 0.00 | -142.1 | 0.00 | 142.10 | 1,828.96 | 432.04 | 968.69 | 929.67 | 21.39 | -1.72 | 0.160 |
| 135.00 | -12.87 | -4.20 | 0.00 | -129.8 | 0.00 | 129.84 | 1,782.39 | 421.04 | 919.99 | 882.64 | 22.44 | -1.77 | 0.154 |
| 135.75 | -12.74 | -4.19 | 0.00 | -126.7 | 0.00 | 126.69 | 1,770.26 | 418.17 | 907.52 | 870.59 | 22.72 | -1.79 | 0.153 |
| 135.87 | -12.71 | -4.14 | 0.00 | -126.2 | 0.00 | 126.19 | 993.96 | 255.85 | 566.11 | 501.11 | 22.76 | -1.79 | 0.114 |
| 139.50 | -12.14 | -4.06 | 0.00 | -111.2 | 0.00 | 111.16 | 972.83 | 247.53 | 529.89 | 474.38 | 24.14 | -1.83 | 0.104 |
| 140.00 | -11.32 | -3.83 | 0.00 | -109.1 | 0.00 | 109.13 | 969.86 | 246.38 | 525.00 | 470.72 | 24.33 | -1.84 | 0.102 |
| 142.00 | -11.02 | -3.74 | 0.00 | -101.5 | 0.00 | 101.47 | 957.83 | 241.80 | 505.65 | 456.17 | 25.11 | -1.86 | 0.097 |
| 145.00 | -10.59 | -3.68 | 0.00 | -90.2 | 0.00 | 90.24 | 939.37 | 234.93 | 477.30 | 434.56 | 26.29 | -1.9 | 0.089 |
| 146.00 | -10.41 | -3.59 | 0.00 | -86.6 | 0.00 | 86.56 | 933.10 | 232.63 | 468.04 | 427.41 | 26.69 | -1.91 | 0.086 |
| 147.00 | -10.19 | -3.43 | 0.00 | -83.0 | 0.00 | 82.97 | 926.77 | 230.34 | 458.86 | 420.30 | 27.09 | -1.92 | 0.084 |
| 147.25 | -10.16 | -3.39 | 0.00 | -82.1 | 0.00 | 82.11 | 925.18 | 229.77 | 456.58 | 418.52 | 27.19 | -1.92 | 0.083 |
| 147.25 | -10.16 | -3.39 | 0.00 | -82.1 | 0.00 | 82.11 | 925.18 | 229.77 | 456.58 | 418.52 | 27.19 | -1.92 | 0.207 |
| 150.00 | -9.94 | -3.33 | 0.00 | -72.8 | 0.00 | 72.79 | 907.46 | 223.47 | 431.88 | 399.15 | 28.31 | -1.95 | 0.194 |
| 150.10 | -9.80 | -3.13 | 0.00 | -72.4 | 0.00 | 72.45 | 906.80 | 223.24 | 431.00 | 398.45 | 28.35 | -1.96 | 0.193 |
| 155.00 | -9.43 | -3.04 | 0.00 | -57.1 | 0.00 | 57.13 | 874.12 | 212.01 | 388.73 | 364.59 | 30.43 | -2.08 | 0.168 |
| 159.30 | -8.79 | -2.94 | 0.00 | -44.1 | 0.00 | 44.06 | 844.30 | 202.15 | 353.43 | 335.64 | 32.35 | -2.18 | 0.142 |
| 160.00 | -8.73 | -2.89 | 0.00 | -42.0 | 0.00 | 42.00 | 839.35 | 200.55 | 347.85 | 331.00 | 32.67 | -2.19 | 0.138 |
| 165.00 | -8.38 | -2.82 | 0.00 | -27.6 | 0.00 | 27.56 | 800.48 | 189.09 | 309.24 | 297.46 | 35.02 | -2.29 | 0.103 |
| 166.00 | -4.70 | -1.65 | 0.00 | -24.7 | 0.00 | 24.74 | 790.77 | 186.80 | 301.79 | 290.25 | 35.5 | -2.3 | 0.091 |

| CALCULATED FORCES | | | | | | | | | | | | | |
|-------------------|-------|-------|------|-------|------|-------|--------|--------|--------|--------|-------|-------|-------|
| 170.00 | -4.45 | -1.59 | 0.00 | -18.1 | 0.00 | 18.12 | 751.97 | 177.63 | 272.90 | 262.32 | 37.45 | -2.36 | 0.075 |
| 175.00 | -4.14 | -1.51 | 0.00 | -10.2 | 0.00 | 10.19 | 703.45 | 166.17 | 238.83 | 229.40 | 39.96 | -2.42 | 0.050 |
| 180.00 | 0.00 | -1.34 | 0.00 | -2.6 | 0.00 | 2.62 | 654.94 | 154.71 | 207.03 | 198.68 | 42.5 | -2.45 | 0.013 |

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

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

| | |
|--|----------|
| Spectral Response Acceleration for Short Period (S_S): | 0.169 |
| Spectral Response Acceleration at 1.0 Second Period (S_1): | 0.054 |
| Long-Period Transition Period (T_L - Seconds): | 6 |
| Importance Factor (I_e): | 1.250 |
| Site Coefficient F_a : | 1.600 |
| Site Coefficient F_v : | 2.400 |
| Response Modification Coefficient (R): | 1.500 |
| Design Spectral Response Acceleration at Short Period (S_{ds}): | 0.180 |
| Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}): | 0.086 |
| Seismic Response Coefficient (C_s): | 0.030 |
| Upper Limit C_s : | 0.030 |
| Lower Limit C_s : | 0.030 |
| Period based on Rayleigh Method (sec): | 3.030 |
| Redundancy Factor (p): | 1.000 |
| Seismic Force Distribution Exponent (k): | 2.000 |
| Total Unfactored Dead Load: | 56.260 k |
| Seismic Base Shear (E): | 1.690 k |

SEISMIC FORCES

1.2D + 1.0Ev + 1.0Eh

Seismic

| Segment | Height Above Base (ft) | Weight (lb) | W_z (lb-ft) | C_{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|---------|------------------------|-------------|---------------|----------|-----------------------|---------------------|
| 55 | 177.5 | 296 | 9,327 | 0.016 | 27 | 366 |
| 54 | 172.5 | 307 | 9,140 | 0.016 | 26 | 380 |
| 53 | 168 | 254 | 7,161 | 0.012 | 21 | 314 |
| 52 | 165.5 | 70 | 1,923 | 0.003 | 6 | 87 |
| 51 | 162.5 | 358 | 9,443 | 0.016 | 27 | 442 |
| 50 | 159.65 | 51 | 1,299 | 0.002 | 4 | 63 |
| 49 | 157.15 | 318 | 7,848 | 0.013 | 23 | 393 |
| 48 | 152.55 | 372 | 8,660 | 0.015 | 25 | 460 |
| 47 | 150.05 | 8 | 173 | 0.000 | 0 | 10 |
| 46 | 148.625 | 216 | 4,769 | 0.008 | 14 | 267 |
| 45 | 147.125 | 35 | 750 | 0.001 | 2 | 43 |
| 44 | 146.5 | 141 | 3,017 | 0.005 | 9 | 174 |
| 43 | 145.5 | 145 | 3,073 | 0.005 | 9 | 179 |
| 42 | 143.5 | 438 | 9,021 | 0.015 | 26 | 541 |
| 41 | 141 | 296 | 5,880 | 0.010 | 17 | 366 |
| 40 | 139.75 | 74 | 1,453 | 0.002 | 4 | 92 |
| 39 | 137.6849 | 544 | 10,315 | 0.018 | 30 | 673 |
| 38 | 135.8099 | 28 | 512 | 0.001 | 1 | 34 |
| 37 | 135.375 | 130 | 2,375 | 0.004 | 7 | 160 |
| 36 | 133.5599 | 504 | 8,988 | 0.015 | 26 | 623 |
| 35 | 131.0599 | 267 | 4,594 | 0.008 | 13 | 331 |
| 34 | 127.5 | 644 | 10,469 | 0.018 | 30 | 796 |
| 33 | 123 | 529 | 7,996 | 0.014 | 23 | 653 |
| 32 | 120.5 | 140 | 2,036 | 0.004 | 6 | 173 |
| 31 | 117.5 | 712 | 9,832 | 0.017 | 28 | 880 |
| 30 | 112.5 | 768 | 9,721 | 0.016 | 28 | 949 |
| 29 | 107.68 | 781 | 9,061 | 0.015 | 26 | 966 |
| 28 | 105.18 | 85 | 944 | 0.002 | 3 | 105 |
| 27 | 102.5 | 1,195 | 12,558 | 0.021 | 36 | 1,477 |
| 26 | 98.5 | 726 | 7,044 | 0.012 | 20 | 897 |
| 25 | 96 | 488 | 4,501 | 0.008 | 13 | 604 |
| 24 | 94 | 492 | 4,344 | 0.007 | 12 | 608 |
| 23 | 92.7283 | 134 | 1,155 | 0.002 | 3 | 166 |
| 22 | 91.2283 | 939 | 7,816 | 0.013 | 22 | 1,161 |
| 21 | 88.77 | 950 | 7,489 | 0.013 | 22 | 1,175 |
| 20 | 86.27 | 692 | 5,154 | 0.009 | 15 | 856 |
| 19 | 82.5 | 1,380 | 9,392 | 0.016 | 27 | 1,706 |
| 18 | 77.5 | 1,405 | 8,437 | 0.014 | 24 | 1,736 |

ASSET: 302506, Winchester CT 3
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14867785_C4_04

SEISMIC FORCES

| 1.2D + 1.0Ev + 1.0Eh | | Seismic | | | | |
|---|------------------------|-------------|------------------------|-----------------|-----------------------|---------------------|
| Segment | Height Above Base (ft) | Weight (lb) | W _z (lb-ft) | C _{vx} | Horizontal Force (lb) | Vertical Force (lb) |
| 17 | 72.5 | 1,427 | 7,500 | 0.013 | 22 | 1,764 |
| 16 | 67.5 | 1,449 | 6,603 | 0.011 | 19 | 1,791 |
| 15 | 62.5 | 1,471 | 5,748 | 0.010 | 17 | 1,819 |
| 14 | 57.5 | 1,494 | 4,938 | 0.008 | 14 | 1,846 |
| 13 | 52.5 | 1,516 | 4,178 | 0.007 | 12 | 1,874 |
| 12 | 49.52 | 294 | 720 | 0.001 | 2 | 363 |
| 11 | 47.02 | 2,046 | 4,524 | 0.008 | 13 | 2,529 |
| 10 | 43.9783 | 1,047 | 2,025 | 0.003 | 6 | 1,294 |
| 9 | 41.4783 | 1,002 | 1,724 | 0.003 | 5 | 1,238 |
| 8 | 37.5 | 1,715 | 2,411 | 0.004 | 7 | 2,120 |
| 7 | 32.5 | 1,741 | 1,839 | 0.003 | 5 | 2,152 |
| 6 | 27.5 | 1,767 | 1,336 | 0.002 | 4 | 2,184 |
| 5 | 22.5 | 1,793 | 907 | 0.002 | 3 | 2,216 |
| 4 | 17.5 | 1,819 | 557 | 0.001 | 2 | 2,248 |
| 3 | 12.5 | 1,844 | 288 | 0.000 | 1 | 2,280 |
| 2 | 7.5 | 1,870 | 105 | 0.000 | 0 | 2,312 |
| 1 | 2.5 | 1,896 | 12 | 0.000 | 0 | 2,344 |
| Raycap DC6-48-60-18-8F (23.5" Height) | 180 | 60 | 1,944 | 0.003 | 6 | 74 |
| Ericsson RRUS 8843 B2, B66A | 180 | 216 | 6,998 | 0.012 | 20 | 267 |
| Ericsson RRUS 4449 B5, B12 | 180 | 213 | 6,901 | 0.012 | 20 | 263 |
| Ericsson RRUS 32 B30 | 180 | 180 | 5,832 | 0.010 | 17 | 222 |
| Ericsson RRUS E2 B29 | 180 | 180 | 5,832 | 0.010 | 17 | 222 |
| CCI OPA65R-BU6B | 180 | 165 | 5,346 | 0.009 | 15 | 204 |
| CCI HPA-65R-BUU-H6 | 180 | 153 | 4,957 | 0.008 | 14 | 189 |
| CCI DMP65R-BU6DA | 180 | 238 | 7,718 | 0.013 | 22 | 294 |
| Generic Flat Platform with Handrails | 180 | 2,500 | 81,000 | 0.138 | 233 | 3,090 |
| Ceragon FibeAir IP-20S | 166 | 13 | 364 | 0.001 | 1 | 16 |
| Ericsson Radio 4449 B71 B85A | 166 | 225 | 6,200 | 0.010 | 18 | 278 |
| Commscope VHLP2-11W/A | 166 | 17 | 468 | 0.001 | 1 | 21 |
| Generic Mount Reinforcement | 166 | 600 | 16,534 | 0.028 | 47 | 742 |
| Ericsson Air6449 B41 | 166 | 312 | 8,597 | 0.015 | 25 | 386 |
| Generic Round Sector Frame | 166 | 2,100 | 57,868 | 0.098 | 166 | 2,596 |
| RFS APXVAARR24_43-U-NA20 | 166 | 384 | 10,573 | 0.018 | 30 | 474 |
| Ericsson Radio 4460 B25+B66 | 159.3 | 327 | 8,298 | 0.014 | 24 | 404 |
| Decibel DB809DK-XT | 150.1 | 128 | 2,884 | 0.005 | 8 | 158 |
| Sinclair SD210-SF2P4SNM | 150 | 8 | 187 | 0.000 | 1 | 10 |
| Sinclair SC442D-HF1LDF(DXX-I30-G9-NUFP) | 147 | 79 | 1,707 | 0.003 | 5 | 98 |
| Sinclair SC479-HF1LDF(E5765) | 146 | 34 | 725 | 0.001 | 2 | 42 |
| Telewave ANT150D (5 lbs) | 142 | 5 | 101 | 0.000 | 0 | 6 |
| Generic Round Side Arm | 140 | 750 | 14,700 | 0.025 | 42 | 927 |
| Generic Round Side Arm | 95 | 188 | 1,692 | 0.003 | 5 | 232 |
| Bird 432-83H-01-T | 139.5 | 25 | 487 | 0.001 | 1 | 31 |
| Commscope CBC78T-DS-43-2X | 121 | 62 | 909 | 0.002 | 3 | 77 |
| Samsung B2/B66A RRH ORAN (RF 4439d-25A) | 121 | 224 | 3,281 | 0.006 | 9 | 277 |
| Samsung RF4461d-13A | 121 | 237 | 3,474 | 0.006 | 10 | 293 |
| Samsung MT6413-77A | 121 | 172 | 2,517 | 0.004 | 7 | 212 |
| Raycap RCMD-6627-PF-48 | 121 | 32 | 469 | 0.001 | 1 | 40 |
| Antel LPA-80080/6CF ____ | 121 | 84 | 1,230 | 0.002 | 4 | 104 |
| Commscope JAHH-65B-R3B | 121 | 364 | 5,323 | 0.009 | 15 | 449 |
| Antel LPA-80063/6CF | 121 | 54 | 791 | 0.001 | 2 | 67 |
| Generic Round Platform with Handrails | 121 | 2,500 | 36,602 | 0.062 | 105 | 3,090 |
| Andrew DB586 | 97 | 8 | 78 | 0.000 | 0 | 10 |
| Andrew DB586 | 93 | 8 | 72 | 0.000 | 0 | 10 |
| Bird 429-83H-01-T | 95 | 20 | 180 | 0.000 | 1 | 25 |
| RFS PA6-65AC | 80 | 278 | 1,779 | 0.003 | 5 | 344 |
| Generic GPS | 30 | 10 | 9 | 0.000 | 0 | 12 |
| Totals: | | 56,256 | 587,714 | 1.000 | 1,688 | 69,535 |

ASSET: 302506, Winchester CT 3
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14867785_C4_04

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

| Segment | Height Above Base (ft) | Weight (lb) | W _z (lb-ft) | C _{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|---------------------------------------|------------------------|-------------|------------------------|-----------------|-----------------------|---------------------|
| 55 | 177.5 | 296 | 9,327 | 0.016 | 27 | 256 |
| 54 | 172.5 | 307 | 9,140 | 0.016 | 26 | 265 |
| 53 | 168 | 254 | 7,161 | 0.012 | 21 | 219 |
| 52 | 165.5 | 70 | 1,923 | 0.003 | 6 | 61 |
| 51 | 162.5 | 358 | 9,443 | 0.016 | 27 | 309 |
| 50 | 159.65 | 51 | 1,299 | 0.002 | 4 | 44 |
| 49 | 157.15 | 318 | 7,848 | 0.013 | 23 | 275 |
| 48 | 152.55 | 372 | 8,660 | 0.015 | 25 | 322 |
| 47 | 150.05 | 8 | 173 | 0.000 | 0 | 7 |
| 46 | 148.625 | 216 | 4,769 | 0.008 | 14 | 187 |
| 45 | 147.125 | 35 | 750 | 0.001 | 2 | 30 |
| 44 | 146.5 | 141 | 3,017 | 0.005 | 9 | 121 |
| 43 | 145.5 | 145 | 3,073 | 0.005 | 9 | 125 |
| 42 | 143.5 | 438 | 9,021 | 0.015 | 26 | 378 |
| 41 | 141 | 296 | 5,880 | 0.010 | 17 | 256 |
| 40 | 139.75 | 74 | 1,453 | 0.002 | 4 | 64 |
| 39 | 137.6849 | 544 | 10,315 | 0.018 | 30 | 470 |
| 38 | 135.8099 | 28 | 512 | 0.001 | 1 | 24 |
| 37 | 135.375 | 130 | 2,375 | 0.004 | 7 | 112 |
| 36 | 133.5599 | 504 | 8,988 | 0.015 | 26 | 435 |
| 35 | 131.0599 | 267 | 4,594 | 0.008 | 13 | 231 |
| 34 | 127.5 | 644 | 10,469 | 0.018 | 30 | 556 |
| 33 | 123 | 529 | 7,996 | 0.014 | 23 | 457 |
| 32 | 120.5 | 140 | 2,036 | 0.004 | 6 | 121 |
| 31 | 117.5 | 712 | 9,832 | 0.017 | 28 | 615 |
| 30 | 112.5 | 768 | 9,721 | 0.016 | 28 | 664 |
| 29 | 107.68 | 781 | 9,061 | 0.015 | 26 | 675 |
| 28 | 105.18 | 85 | 944 | 0.002 | 3 | 74 |
| 27 | 102.5 | 1,195 | 12,558 | 0.021 | 36 | 1,033 |
| 26 | 98.5 | 726 | 7,044 | 0.012 | 20 | 627 |
| 25 | 96 | 488 | 4,501 | 0.008 | 13 | 422 |
| 24 | 94 | 492 | 4,344 | 0.007 | 12 | 425 |
| 23 | 92.7283 | 134 | 1,155 | 0.002 | 3 | 116 |
| 22 | 91.2283 | 939 | 7,816 | 0.013 | 22 | 811 |
| 21 | 88.77 | 950 | 7,489 | 0.013 | 22 | 821 |
| 20 | 86.27 | 692 | 5,154 | 0.009 | 15 | 598 |
| 19 | 82.5 | 1,380 | 9,392 | 0.016 | 27 | 1,192 |
| 18 | 77.5 | 1,405 | 8,437 | 0.014 | 24 | 1,214 |
| 17 | 72.5 | 1,427 | 7,500 | 0.013 | 22 | 1,233 |
| 16 | 67.5 | 1,449 | 6,603 | 0.011 | 19 | 1,252 |
| 15 | 62.5 | 1,471 | 5,748 | 0.010 | 17 | 1,271 |
| 14 | 57.5 | 1,494 | 4,938 | 0.008 | 14 | 1,290 |
| 13 | 52.5 | 1,516 | 4,178 | 0.007 | 12 | 1,310 |
| 12 | 49.52 | 294 | 720 | 0.001 | 2 | 254 |
| 11 | 47.02 | 2,046 | 4,524 | 0.008 | 13 | 1,768 |
| 10 | 43.9783 | 1,047 | 2,025 | 0.003 | 6 | 904 |
| 9 | 41.4783 | 1,002 | 1,724 | 0.003 | 5 | 866 |
| 8 | 37.5 | 1,715 | 2,411 | 0.004 | 7 | 1,482 |
| 7 | 32.5 | 1,741 | 1,839 | 0.003 | 5 | 1,504 |
| 6 | 27.5 | 1,767 | 1,336 | 0.002 | 4 | 1,526 |
| 5 | 22.5 | 1,793 | 907 | 0.002 | 3 | 1,549 |
| 4 | 17.5 | 1,819 | 557 | 0.001 | 2 | 1,571 |
| 3 | 12.5 | 1,844 | 288 | 0.000 | 1 | 1,593 |
| 2 | 7.5 | 1,870 | 105 | 0.000 | 0 | 1,616 |
| 1 | 2.5 | 1,896 | 12 | 0.000 | 0 | 1,638 |
| Raycap DC6-48-60-18-8F (23.5" Height) | 180 | 60 | 1,944 | 0.003 | 6 | 52 |
| Ericsson RRUS 8843 B2, B66A | 180 | 216 | 6,998 | 0.012 | 20 | 187 |
| Ericsson RRUS 4449 B5, B12 | 180 | 213 | 6,901 | 0.012 | 20 | 184 |
| Ericsson RRUS 32 B30 | 180 | 180 | 5,832 | 0.010 | 17 | 156 |
| Ericsson RRUS E2 B29 | 180 | 180 | 5,832 | 0.010 | 17 | 156 |
| CCI OPA65R-BU6B | 180 | 165 | 5,346 | 0.009 | 15 | 143 |

ASSET: 302506, Winchester CT 3
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14867785_C4_04

SEISMIC FORCES

0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

| Segment | Height Above Base (ft) | Weight (lb) | W _z (lb-ft) | C _{vx} | Horizontal Force (lb) | Vertical Force (lb) |
|---|------------------------|-------------|------------------------|-----------------|-----------------------|---------------------|
| CCI HPA-65R-BUU-H6 | 180 | 153 | 4,957 | 0.008 | 14 | 132 |
| CCI DMP65R-BU6DA | 180 | 238 | 7,718 | 0.013 | 22 | 206 |
| Generic Flat Platform with Handrails | 180 | 2,500 | 81,000 | 0.138 | 233 | 2,160 |
| Ceragon FibeAir IP-20S | 166 | 13 | 364 | 0.001 | 1 | 11 |
| Ericsson Radio 4449 B71 B85A | 166 | 225 | 6,200 | 0.010 | 18 | 194 |
| Commscope VHLP2-11W/A | 166 | 17 | 468 | 0.001 | 1 | 15 |
| Generic Mount Reinforcement | 166 | 600 | 16,534 | 0.028 | 47 | 518 |
| Ericsson Air6449 B41 | 166 | 312 | 8,597 | 0.015 | 25 | 270 |
| Generic Round Sector Frame | 166 | 2,100 | 57,868 | 0.098 | 166 | 1,814 |
| RFS APXVAARR24_43-U-NA20 | 166 | 384 | 10,573 | 0.018 | 30 | 331 |
| Ericsson Radio 4460 B25+B66 | 159.3 | 327 | 8,298 | 0.014 | 24 | 283 |
| Decibel DB809DK-XT | 150.1 | 128 | 2,884 | 0.005 | 8 | 111 |
| Sinclair SD210-SF2P4SNM | 150 | 8 | 187 | 0.000 | 1 | 7 |
| Sinclair SC442D-HF1LDF(DXX-I30-G9-NUFP) | 147 | 79 | 1,707 | 0.003 | 5 | 68 |
| Sinclair SC479-HF1LDF(E5765) | 146 | 34 | 725 | 0.001 | 2 | 29 |
| Telewave ANT150D (5 lbs) | 142 | 5 | 101 | 0.000 | 0 | 4 |
| Generic Round Side Arm | 140 | 750 | 14,700 | 0.025 | 42 | 648 |
| Generic Round Side Arm | 95 | 188 | 1,692 | 0.003 | 5 | 162 |
| Bird 432-83H-01-T | 139.5 | 25 | 487 | 0.001 | 1 | 22 |
| Commscope CBC78T-DS-43-2X | 121 | 62 | 909 | 0.002 | 3 | 54 |
| Samsung B2/B66A RRH ORAN (RF 4439d-25A) | 121 | 224 | 3,281 | 0.006 | 9 | 194 |
| Samsung RF4461d-13A | 121 | 237 | 3,474 | 0.006 | 10 | 205 |
| Samsung MT6413-77A | 121 | 172 | 2,517 | 0.004 | 7 | 149 |
| Raycap RCMDC-6627-PF-48 | 121 | 32 | 469 | 0.001 | 1 | 28 |
| Antel LPA-80080/6CF ____ | 121 | 84 | 1,230 | 0.002 | 4 | 73 |
| Commscope JAHH-65B-R3B | 121 | 364 | 5,323 | 0.009 | 15 | 314 |
| Antel LPA-80063/6CF | 121 | 54 | 791 | 0.001 | 2 | 47 |
| Generic Round Platform with Handrails | 121 | 2,500 | 36,602 | 0.062 | 105 | 2,160 |
| Andrew DB586 | 97 | 8 | 78 | 0.000 | 0 | 7 |
| Andrew DB586 | 93 | 8 | 72 | 0.000 | 0 | 7 |
| Bird 429-83H-01-T | 95 | 20 | 180 | 0.000 | 1 | 17 |
| RFS PA6-65AC | 80 | 278 | 1,779 | 0.003 | 5 | 240 |
| Generic GPS | 30 | 10 | 9 | 0.000 | 0 | 9 |
| Totals: | | 56,256 | 587,714 | 1.000 | 1,688 | 48,602 |

1.2D + 1.0Ev + 1.0Eh

Seismic

CALCULATED FORCES

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (fr-kips) | Mu Mx (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (kips) | Phi Mn (kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|---------------|---------------|--------------------|----------------|-------|
| 0.00 | -67.19 | -1.69 | 0.00 | -249.85 | 0.00 | 249.85 | 5,102.86 | 1,274.83 | 6,024 | 5,489.79 | 0.00 | 0.00 | 0.04 |
| 5.00 | -64.88 | -1.70 | 0.00 | -241.39 | 0.00 | 241.39 | 5,029.12 | 1,248.09 | 5,774 | 5,296.04 | 0.01 | -0.01 | 0.04 |
| 10.00 | -62.60 | -1.71 | 0.00 | -232.87 | 0.00 | 232.87 | 4,953.96 | 1,221.35 | 5,529 | 5,104.17 | 0.02 | -0.02 | 0.04 |
| 10.00 | -62.60 | -1.71 | 0.00 | -232.87 | 0.00 | 232.87 | 4,953.96 | 1,221.35 | 5,529 | 5,104.17 | 0.02 | -0.02 | 0.04 |
| 15.00 | -60.35 | -1.72 | 0.00 | -224.30 | 0.00 | 224.30 | 4,877.37 | 1,194.61 | 5,290 | 4,914.29 | 0.05 | -0.03 | 0.04 |
| 20.00 | -58.13 | -1.73 | 0.00 | -215.69 | 0.00 | 215.69 | 4,799.35 | 1,167.88 | 5,055 | 4,726.50 | 0.09 | -0.04 | 0.04 |
| 25.00 | -55.95 | -1.74 | 0.00 | -207.04 | 0.00 | 207.04 | 4,719.91 | 1,141.14 | 4,827 | 4,540.87 | 0.14 | -0.05 | 0.04 |
| 30.00 | -53.79 | -1.74 | 0.00 | -198.36 | 0.00 | 198.36 | 4,639.04 | 1,114.40 | 4,603 | 4,357.53 | 0.20 | -0.07 | 0.04 |
| 35.00 | -51.67 | -1.74 | 0.00 | -189.67 | 0.00 | 189.67 | 4,556.74 | 1,087.66 | 4,385 | 4,176.56 | 0.28 | -0.08 | 0.04 |
| 40.00 | -50.43 | -1.74 | 0.00 | -180.97 | 0.00 | 180.97 | 4,473.02 | 1,060.92 | 4,172 | 3,998.06 | 0.36 | -0.09 | 0.04 |
| 42.96 | -49.13 | -1.74 | 0.00 | -175.82 | 0.00 | 175.82 | 4,422.84 | 1,045.11 | 4,049 | 3,893.71 | 0.42 | -0.10 | 0.04 |
| 45.00 | -46.60 | -1.73 | 0.00 | -172.27 | 0.00 | 172.27 | 4,378.05 | 1,034.19 | 3,964 | 3,813.57 | 0.46 | -0.10 | 0.04 |
| 49.04 | -46.24 | -1.73 | 0.00 | -165.29 | 0.00 | 165.29 | 3,604.18 | 884.90 | 3,386 | 3,138.53 | 0.55 | -0.11 | 0.04 |
| 50.00 | -44.37 | -1.72 | 0.00 | -163.63 | 0.00 | 163.63 | 3,591.52 | 880.50 | 3,352 | 3,111.81 | 0.58 | -0.11 | 0.04 |
| 55.00 | -42.52 | -1.71 | 0.00 | -155.03 | 0.00 | 155.03 | 3,524.72 | 857.58 | 3,180 | 2,973.74 | 0.70 | -0.13 | 0.04 |
| 60.00 | -40.70 | -1.70 | 0.00 | -146.47 | 0.00 | 146.47 | 3,456.50 | 834.66 | 3,013 | 2,837.55 | 0.84 | -0.14 | 0.04 |
| 65.00 | -38.91 | -1.69 | 0.00 | -137.97 | 0.00 | 137.97 | 3,386.84 | 811.74 | 2,849 | 2,703.31 | 0.99 | -0.15 | 0.04 |
| 70.00 | -37.15 | -1.67 | 0.00 | -129.54 | 0.00 | 129.54 | 3,315.77 | 788.82 | 2,691 | 2,571.14 | 1.16 | -0.17 | 0.04 |
| 75.00 | -35.41 | -1.65 | 0.00 | -121.20 | 0.00 | 121.20 | 3,242.33 | 765.91 | 2,537 | 2,440.43 | 1.34 | -0.18 | 0.04 |
| 80.00 | -33.36 | -1.62 | 0.00 | -112.96 | 0.00 | 112.96 | 3,145.31 | 742.99 | 2,387 | 2,295.85 | 1.54 | -0.19 | 0.04 |

ASSET: 302506, Winchester CT 3
CUSTOMER: VERIZON WIRELESS

CODE: ANSI/TIA-222-H
PROJECT: 14867785_C4_04

CALCULATED FORCES

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (fr-kips) | Mu Mx (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (kips) | Phi Mn (kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|---------------------|---------------------|---------------------|---------------------|--------------------------|-------------------|-------|
| 85.00 | -32.50 | -1.60 | 0.00 | -104.87 | 0.00 | 104.87 | 3,048.29 | 720.07 | 2,242 | 2,155.68 | 1.75 | -0.21 | 0.04 |
| 87.54 | -31.33 | -1.58 | 0.00 | -100.80 | 0.00 | 100.80 | 2,999.00 | 708.43 | 2,170 | 2,086.17 | 1.86 | -0.21 | 0.04 |
| 90.00 | -30.17 | -1.56 | 0.00 | -96.91 | 0.00 | 96.91 | 2,951.27 | 697.15 | 2,102 | 2,019.93 | 1.98 | -0.22 | 0.03 |
| 92.46 | -30.00 | -1.56 | 0.00 | -93.07 | 0.00 | 93.07 | 2,412.09 | 583.54 | 1,767 | 1,661.39 | 2.09 | -0.23 | 0.04 |
| 93.00 | -29.38 | -1.54 | 0.00 | -92.23 | 0.00 | 92.23 | 2,405.87 | 581.47 | 1,754 | 1,651.16 | 2.12 | -0.23 | 0.04 |
| 95.00 | -28.52 | -1.53 | 0.00 | -89.14 | 0.00 | 89.14 | 2,382.84 | 573.83 | 1,709 | 1,613.66 | 2.22 | -0.24 | 0.04 |
| 97.00 | -27.62 | -1.51 | 0.00 | -86.09 | 0.00 | 86.09 | 2,359.57 | 566.19 | 1,663 | 1,576.43 | 2.32 | -0.24 | 0.04 |
| 100.00 | -26.14 | -1.47 | 0.00 | -81.57 | 0.00 | 81.57 | 2,324.24 | 554.73 | 1,597 | 1,521.10 | 2.47 | -0.25 | 0.04 |
| 105.00 | -26.03 | -1.47 | 0.00 | -74.23 | 0.00 | 74.23 | 2,264.22 | 535.63 | 1,489 | 1,430.31 | 2.74 | -0.26 | 0.03 |
| 105.36 | -25.07 | -1.44 | 0.00 | -73.70 | 0.00 | 73.70 | 2,259.84 | 534.25 | 1,481 | 1,423.84 | 2.76 | -0.27 | 0.03 |
| 105.36 | -25.07 | -1.44 | 0.00 | -73.70 | 0.00 | 73.70 | 2,259.84 | 534.25 | 1,481 | 1,423.84 | 2.76 | -0.27 | 0.06 |
| 110.00 | -24.12 | -1.42 | 0.00 | -67.02 | 0.00 | 67.02 | 2,186.65 | 516.53 | 1,385 | 1,331.56 | 3.03 | -0.28 | 0.06 |
| 115.00 | -23.24 | -1.40 | 0.00 | -59.93 | 0.00 | 59.93 | 2,105.79 | 497.43 | 1,284 | 1,234.41 | 3.33 | -0.31 | 0.06 |
| 120.00 | -23.06 | -1.40 | 0.00 | -52.96 | 0.00 | 52.96 | 2,024.94 | 478.33 | 1,187 | 1,140.95 | 3.67 | -0.33 | 0.06 |
| 121.00 | -17.80 | -1.19 | 0.00 | -51.56 | 0.00 | 51.56 | 2,008.77 | 474.51 | 1,168 | 1,122.70 | 3.74 | -0.34 | 0.06 |
| 125.00 | -17.00 | -1.16 | 0.00 | -46.81 | 0.00 | 46.81 | 1,944.09 | 459.23 | 1,094 | 1,051.17 | 4.03 | -0.36 | 0.05 |
| 130.00 | -16.67 | -1.15 | 0.00 | -41.00 | 0.00 | 41.00 | 1,863.24 | 440.14 | 1,005 | 965.06 | 4.43 | -0.39 | 0.05 |
| 132.12 | -16.05 | -1.13 | 0.00 | -38.56 | 0.00 | 38.56 | 1,828.96 | 432.04 | 969 | 929.67 | 4.60 | -0.40 | 0.05 |
| 135.00 | -15.89 | -1.12 | 0.00 | -35.32 | 0.00 | 35.32 | 1,782.39 | 421.04 | 920 | 882.64 | 4.85 | -0.42 | 0.05 |
| 135.75 | -15.86 | -1.12 | 0.00 | -34.48 | 0.00 | 34.48 | 1,770.26 | 418.17 | 908 | 870.59 | 4.91 | -0.42 | 0.05 |
| 135.87 | -15.18 | -1.09 | 0.00 | -34.34 | 0.00 | 34.34 | 993.96 | 255.85 | 566 | 501.11 | 4.92 | -0.42 | 0.04 |
| 139.50 | -15.06 | -1.08 | 0.00 | -30.40 | 0.00 | 30.40 | 972.83 | 247.53 | 530 | 474.38 | 5.25 | -0.43 | 0.03 |
| 140.00 | -13.77 | -1.01 | 0.00 | -29.86 | 0.00 | 29.86 | 969.86 | 246.38 | 525 | 470.72 | 5.29 | -0.43 | 0.03 |
| 142.00 | -13.22 | -0.99 | 0.00 | -27.83 | 0.00 | 27.83 | 957.83 | 241.80 | 506 | 456.17 | 5.48 | -0.44 | 0.03 |
| 145.00 | -13.04 | -0.98 | 0.00 | -24.88 | 0.00 | 24.88 | 939.37 | 234.93 | 477 | 434.56 | 5.76 | -0.45 | 0.03 |
| 146.00 | -12.83 | -0.96 | 0.00 | -23.90 | 0.00 | 23.90 | 933.10 | 232.63 | 468 | 427.41 | 5.85 | -0.45 | 0.03 |
| 147.00 | -12.69 | -0.96 | 0.00 | -22.93 | 0.00 | 22.93 | 926.77 | 230.34 | 459 | 420.30 | 5.95 | -0.46 | 0.03 |
| 147.25 | -12.42 | -0.94 | 0.00 | -22.70 | 0.00 | 22.70 | 925.18 | 229.77 | 457 | 418.52 | 5.97 | -0.46 | 0.03 |
| 147.25 | -12.42 | -0.94 | 0.00 | -22.70 | 0.00 | 22.70 | 925.18 | 229.77 | 457 | 418.52 | 5.97 | -0.46 | 0.07 |
| 150.00 | -12.40 | -0.94 | 0.00 | -20.10 | 0.00 | 20.10 | 907.46 | 223.47 | 432 | 399.15 | 6.24 | -0.47 | 0.06 |
| 150.10 | -11.78 | -0.91 | 0.00 | -20.01 | 0.00 | 20.01 | 906.80 | 223.24 | 431 | 398.45 | 6.25 | -0.47 | 0.06 |
| 155.00 | -11.39 | -0.89 | 0.00 | -15.56 | 0.00 | 15.56 | 874.12 | 212.01 | 389 | 364.59 | 6.74 | -0.50 | 0.06 |
| 159.30 | -10.92 | -0.86 | 0.00 | -11.74 | 0.00 | 11.74 | 844.30 | 202.15 | 353 | 335.64 | 7.21 | -0.53 | 0.05 |
| 160.00 | -10.48 | -0.83 | 0.00 | -11.14 | 0.00 | 11.14 | 839.35 | 200.55 | 348 | 331.00 | 7.29 | -0.53 | 0.05 |
| 165.00 | -10.39 | -0.83 | 0.00 | -6.99 | 0.00 | 6.99 | 800.48 | 189.09 | 309 | 297.46 | 7.86 | -0.56 | 0.04 |
| 166.00 | -5.57 | -0.47 | 0.00 | -6.16 | 0.00 | 6.16 | 790.77 | 186.80 | 302 | 290.25 | 7.97 | -0.56 | 0.03 |
| 170.00 | -5.19 | -0.44 | 0.00 | -4.28 | 0.00 | 4.28 | 751.97 | 177.63 | 273 | 262.32 | 8.45 | -0.57 | 0.02 |
| 175.00 | -4.82 | -0.41 | 0.00 | -2.06 | 0.00 | 2.06 | 703.45 | 166.17 | 239 | 229.40 | 9.06 | -0.59 | 0.02 |
| 180.00 | 0.00 | -0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 654.94 | 154.71 | 207 | 198.68 | 9.67 | -0.59 | 0.00 |

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

CALCULATED FORCES

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (fr-kips) | Mu Mx (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (kips) | Phi Mn (kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|---------------------|---------------------|---------------------|---------------------|--------------------------|-------------------|-------|
| 0.00 | -46.96 | -1.69 | 0.00 | -244.70 | 0.00 | 244.70 | 5,102.86 | 1,274.83 | 6,024 | 5,489.79 | 0.00 | 0.00 | 0.04 |
| 5.00 | -45.35 | -1.70 | 0.00 | -236.25 | 0.00 | 236.25 | 5,029.12 | 1,248.09 | 5,774 | 5,296.04 | 0.01 | -0.01 | 0.04 |
| 10.00 | -43.75 | -1.71 | 0.00 | -227.76 | 0.00 | 227.76 | 4,953.96 | 1,221.35 | 5,529 | 5,104.17 | 0.02 | -0.02 | 0.04 |
| 10.00 | -43.75 | -1.71 | 0.00 | -227.76 | 0.00 | 227.76 | 4,953.96 | 1,221.35 | 5,529 | 5,104.17 | 0.02 | -0.02 | 0.04 |
| 15.00 | -42.18 | -1.71 | 0.00 | -219.23 | 0.00 | 219.23 | 4,877.37 | 1,194.61 | 5,290 | 4,914.29 | 0.05 | -0.03 | 0.04 |
| 20.00 | -40.63 | -1.71 | 0.00 | -210.68 | 0.00 | 210.68 | 4,799.35 | 1,167.88 | 5,055 | 4,726.50 | 0.09 | -0.04 | 0.04 |
| 25.00 | -39.11 | -1.72 | 0.00 | -202.11 | 0.00 | 202.11 | 4,719.91 | 1,141.14 | 4,827 | 4,540.87 | 0.14 | -0.05 | 0.04 |
| 30.00 | -37.59 | -1.72 | 0.00 | -193.52 | 0.00 | 193.52 | 4,639.04 | 1,114.40 | 4,603 | 4,357.53 | 0.20 | -0.06 | 0.04 |
| 35.00 | -36.11 | -1.72 | 0.00 | -184.93 | 0.00 | 184.93 | 4,556.74 | 1,087.66 | 4,385 | 4,176.56 | 0.27 | -0.08 | 0.04 |
| 40.00 | -35.25 | -1.72 | 0.00 | -176.35 | 0.00 | 176.35 | 4,473.02 | 1,060.92 | 4,172 | 3,998.06 | 0.36 | -0.09 | 0.04 |
| 42.96 | -34.34 | -1.71 | 0.00 | -171.28 | 0.00 | 171.28 | 4,422.84 | 1,045.11 | 4,049 | 3,893.71 | 0.41 | -0.09 | 0.04 |
| 45.00 | -32.57 | -1.70 | 0.00 | -167.78 | 0.00 | 167.78 | 4,378.05 | 1,034.19 | 3,964 | 3,813.57 | 0.45 | -0.10 | 0.04 |
| 49.04 | -32.32 | -1.70 | 0.00 | -160.91 | 0.00 | 160.91 | 3,604.18 | 884.90 | 3,386 | 3,138.53 | 0.54 | -0.11 | 0.04 |
| 50.00 | -31.01 | -1.69 | 0.00 | -159.28 | 0.00 | 159.28 | 3,591.52 | 880.50 | 3,352 | 3,111.81 | 0.56 | -0.11 | 0.04 |
| 55.00 | -29.72 | -1.68 | 0.00 | -150.83 | 0.00 | 150.83 | 3,524.72 | 857.58 | 3,180 | 2,973.74 | 0.68 | -0.12 | 0.04 |

CALCULATED FORCES

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu Mx (ft-kips) | Resultant Moment (ft-kips) | Phi Pn (kips) | Phi Vn (kips) | Phi Tn (kips) | Phi Mn (kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|----------------------------------|---------------------|---------------------|---------------------|---------------------|--------------------------|-------------------|-------|
| 60.00 | -28.45 | -1.67 | 0.00 | -142.42 | 0.00 | 142.42 | 3,456.50 | 834.66 | 3,013 | 2,837.55 | 0.82 | -0.14 | 0.04 |
| 65.00 | -27.20 | -1.65 | 0.00 | -134.09 | 0.00 | 134.09 | 3,386.84 | 811.74 | 2,849 | 2,703.31 | 0.97 | -0.15 | 0.04 |
| 70.00 | -25.96 | -1.63 | 0.00 | -125.83 | 0.00 | 125.83 | 3,315.77 | 788.82 | 2,691 | 2,571.14 | 1.13 | -0.16 | 0.04 |
| 75.00 | -24.75 | -1.61 | 0.00 | -117.66 | 0.00 | 117.66 | 3,242.33 | 765.91 | 2,537 | 2,440.43 | 1.31 | -0.18 | 0.04 |
| 80.00 | -23.32 | -1.58 | 0.00 | -109.61 | 0.00 | 109.61 | 3,145.31 | 742.99 | 2,387 | 2,295.85 | 1.50 | -0.19 | 0.03 |
| 85.00 | -22.72 | -1.57 | 0.00 | -101.71 | 0.00 | 101.71 | 3,048.29 | 720.07 | 2,242 | 2,155.68 | 1.71 | -0.20 | 0.03 |
| 87.54 | -21.90 | -1.54 | 0.00 | -97.73 | 0.00 | 97.73 | 2,999.00 | 708.43 | 2,170 | 2,086.17 | 1.82 | -0.21 | 0.03 |
| 90.00 | -21.08 | -1.52 | 0.00 | -93.93 | 0.00 | 93.93 | 2,951.27 | 697.15 | 2,102 | 2,019.93 | 1.93 | -0.22 | 0.03 |
| 92.46 | -20.97 | -1.52 | 0.00 | -90.19 | 0.00 | 90.19 | 2,412.09 | 583.54 | 1,767 | 1,661.39 | 2.04 | -0.22 | 0.04 |
| 93.00 | -20.54 | -1.51 | 0.00 | -89.37 | 0.00 | 89.37 | 2,405.87 | 581.47 | 1,754 | 1,651.16 | 2.07 | -0.22 | 0.03 |
| 95.00 | -19.94 | -1.49 | 0.00 | -86.36 | 0.00 | 86.36 | 2,382.84 | 573.83 | 1,709 | 1,613.66 | 2.16 | -0.23 | 0.03 |
| 97.00 | -19.30 | -1.47 | 0.00 | -83.38 | 0.00 | 83.38 | 2,359.57 | 566.19 | 1,663 | 1,576.43 | 2.26 | -0.24 | 0.03 |
| 100.00 | -18.27 | -1.43 | 0.00 | -78.98 | 0.00 | 78.98 | 2,324.24 | 554.73 | 1,597 | 1,521.10 | 2.41 | -0.24 | 0.03 |
| 105.00 | -18.19 | -1.43 | 0.00 | -71.83 | 0.00 | 71.83 | 2,264.22 | 535.63 | 1,489 | 1,430.31 | 2.67 | -0.26 | 0.03 |
| 105.36 | -17.52 | -1.40 | 0.00 | -71.31 | 0.00 | 71.31 | 2,259.84 | 534.25 | 1,481 | 1,423.84 | 2.69 | -0.26 | 0.03 |
| 105.36 | -17.52 | -1.40 | 0.00 | -71.31 | 0.00 | 71.31 | 2,259.84 | 534.25 | 1,481 | 1,423.84 | 2.69 | -0.26 | 0.06 |
| 110.00 | -16.85 | -1.38 | 0.00 | -64.80 | 0.00 | 64.80 | 2,186.65 | 516.53 | 1,385 | 1,331.56 | 2.95 | -0.27 | 0.06 |
| 115.00 | -16.24 | -1.35 | 0.00 | -57.91 | 0.00 | 57.91 | 2,105.79 | 497.43 | 1,284 | 1,234.41 | 3.25 | -0.30 | 0.06 |
| 120.00 | -16.12 | -1.35 | 0.00 | -51.15 | 0.00 | 51.15 | 2,024.94 | 478.33 | 1,187 | 1,140.95 | 3.57 | -0.32 | 0.05 |
| 121.00 | -12.44 | -1.15 | 0.00 | -49.79 | 0.00 | 49.79 | 2,008.77 | 474.51 | 1,168 | 1,122.70 | 3.64 | -0.33 | 0.05 |
| 125.00 | -11.88 | -1.13 | 0.00 | -45.18 | 0.00 | 45.18 | 1,944.09 | 459.23 | 1,094 | 1,051.17 | 3.93 | -0.35 | 0.05 |
| 130.00 | -11.65 | -1.11 | 0.00 | -39.55 | 0.00 | 39.55 | 1,863.24 | 440.14 | 1,005 | 965.06 | 4.31 | -0.38 | 0.05 |
| 132.12 | -11.22 | -1.09 | 0.00 | -37.19 | 0.00 | 37.19 | 1,828.96 | 432.04 | 969 | 929.67 | 4.48 | -0.39 | 0.05 |
| 135.00 | -11.10 | -1.08 | 0.00 | -34.05 | 0.00 | 34.05 | 1,782.39 | 421.04 | 920 | 882.64 | 4.72 | -0.40 | 0.05 |
| 135.75 | -11.08 | -1.08 | 0.00 | -33.24 | 0.00 | 33.24 | 1,770.26 | 418.17 | 908 | 870.59 | 4.78 | -0.41 | 0.04 |
| 135.87 | -10.61 | -1.05 | 0.00 | -33.11 | 0.00 | 33.11 | 993.96 | 255.85 | 566 | 501.11 | 4.79 | -0.41 | 0.03 |
| 139.50 | -10.52 | -1.04 | 0.00 | -29.30 | 0.00 | 29.30 | 972.83 | 247.53 | 530 | 474.38 | 5.11 | -0.42 | 0.03 |
| 140.00 | -9.62 | -0.98 | 0.00 | -28.78 | 0.00 | 28.78 | 969.86 | 246.38 | 525 | 470.72 | 5.15 | -0.42 | 0.03 |
| 142.00 | -9.24 | -0.95 | 0.00 | -26.82 | 0.00 | 26.82 | 957.83 | 241.80 | 506 | 456.17 | 5.33 | -0.43 | 0.03 |
| 145.00 | -9.11 | -0.94 | 0.00 | -23.96 | 0.00 | 23.96 | 939.37 | 234.93 | 477 | 434.56 | 5.60 | -0.44 | 0.03 |
| 146.00 | -8.96 | -0.93 | 0.00 | -23.02 | 0.00 | 23.02 | 933.10 | 232.63 | 468 | 427.41 | 5.69 | -0.44 | 0.03 |
| 147.00 | -8.86 | -0.92 | 0.00 | -22.08 | 0.00 | 22.08 | 926.77 | 230.34 | 459 | 420.30 | 5.79 | -0.44 | 0.03 |
| 147.25 | -8.68 | -0.91 | 0.00 | -21.85 | 0.00 | 21.85 | 925.18 | 229.77 | 457 | 418.52 | 5.81 | -0.44 | 0.03 |
| 147.25 | -8.68 | -0.91 | 0.00 | -21.85 | 0.00 | 21.85 | 925.18 | 229.77 | 457 | 418.52 | 5.81 | -0.44 | 0.06 |
| 150.00 | -8.66 | -0.91 | 0.00 | -19.35 | 0.00 | 19.35 | 907.46 | 223.47 | 432 | 399.15 | 6.07 | -0.45 | 0.06 |
| 150.10 | -8.23 | -0.88 | 0.00 | -19.26 | 0.00 | 19.26 | 906.80 | 223.24 | 431 | 398.45 | 6.08 | -0.45 | 0.06 |
| 155.00 | -7.96 | -0.85 | 0.00 | -14.97 | 0.00 | 14.97 | 874.12 | 212.01 | 389 | 364.59 | 6.56 | -0.49 | 0.05 |
| 159.30 | -7.63 | -0.83 | 0.00 | -11.29 | 0.00 | 11.29 | 844.30 | 202.15 | 353 | 335.64 | 7.01 | -0.51 | 0.04 |
| 160.00 | -7.32 | -0.80 | 0.00 | -10.71 | 0.00 | 10.71 | 839.35 | 200.55 | 348 | 331.00 | 7.08 | -0.51 | 0.04 |
| 165.00 | -7.26 | -0.79 | 0.00 | -6.72 | 0.00 | 6.72 | 800.48 | 189.09 | 309 | 297.46 | 7.64 | -0.54 | 0.03 |
| 166.00 | -3.89 | -0.45 | 0.00 | -5.93 | 0.00 | 5.93 | 790.77 | 186.80 | 302 | 290.25 | 7.75 | -0.54 | 0.03 |
| 170.00 | -3.63 | -0.43 | 0.00 | -4.11 | 0.00 | 4.11 | 751.97 | 177.63 | 273 | 262.32 | 8.21 | -0.56 | 0.02 |
| 175.00 | -3.37 | -0.40 | 0.00 | -1.98 | 0.00 | 1.98 | 703.45 | 166.17 | 239 | 229.40 | 8.80 | -0.57 | 0.01 |
| 180.00 | 0.00 | -0.36 | 0.00 | 0.00 | 0.00 | 0.00 | 654.94 | 154.71 | 207 | 198.68 | 9.39 | -0.57 | 0.00 |

ANALYSIS SUMMARY

| Load Case | Base Reactions | | | | | | Max Usage | |
|----------------------|--------------------|--------------------|--------------------|------------------------|------------------------|------------------------|--------------|----------------------|
| | Shear FX (kips) | Shear FZ (kips) | Axial FY (kips) | Moment MX (ft-kips) | Moment MY (ft-kips) | Moment MZ (ft-kips) | Elev (ft) | Interaction Ratio |
| 1.2D + 1.0W | 59.40 | 0.00 | 67.37 | 0.00 | 0.00 | 6409.29 | 105.36 | 0.99 |
| 0.9D + 1.0W | 59.36 | 0.00 | 50.49 | 0.00 | 0.00 | 6314.34 | 105.36 | 0.96 |
| 1.2D + 1.0Di + 1.0Wi | 11.18 | 0.00 | 98.28 | 0.00 | 0.00 | 1381.71 | 147.25 | 0.27 |
| 1.2D + 1.0Ev + 1.0Eh | 1.69 | 0.00 | 67.19 | 0.00 | 0.00 | 249.85 | 147.25 | 0.07 |
| 0.9D - 1.0Ev + 1.0Eh | 1.69 | 0.00 | 46.96 | 0.00 | 0.00 | 244.70 | 147.25 | 0.06 |
| 1.0D + 1.0W | 12.44 | 0.00 | 56.25 | 0.00 | 0.00 | 1333.64 | 105.36 | 0.21 |

ADDITIONAL STEEL SUMMARY

| Elev From (ft) | Elev To (ft) | Member | Intermediate Connectors | | | | Max Member | | |
|-------------------|-----------------|------------------------|-------------------------|-------------------------|-----------------|--------|-------------|----------------|--------|
| | | | VQ/I (k/in) | Shear Applied (kips) | phiVn (kips) | Ratio | Pu (kip) | phiPn (kip) | Ratio |
| 0.00 | 10.00 | SOL #20 All Thread Bar | 269.3 | 4.0 | 16.8 | 0.2403 | 336.2 | 347.6 | 0.9671 |
| 10.00 | 105.36 | SOL #20 All Thread Bar | 407.9 | 12.2 | 16.8 | 0.7279 | 329.6 | 330.5 | 0.9973 |
| 135.75 | 147.25 | PL PL 3.5" x 1.25" | 449.9 | 10.8 | 27.2 | 0.3972 | 149.3 | 168.8 | 0.8841 |

| Elev From (ft) | Elev To (ft) | Member | Upper Termination Connectors | | | | | Lower Termination Connectors | | | | |
|-------------------|-----------------|------------------------|------------------------------|-----------------|-----------------|---------------|--------|------------------------------|----------------|-----------------|---------------|--------|
| | | | MQ/I (kips) | phiVn (kips) | Number Required | Number Actual | Ratio | MQ/I (kips) | phiVn (kip) | Number Required | Number Actual | Ratio |
| 0.00 | 10.00 | SOL #20 All Thread Bar | 0 | 12 | 0 | 0 | 0.0000 | 0 | 12 | 0 | 0 | 0.0000 |
| 10.00 | 105.36 | SOL #20 All Thread Bar | 216.3014 | 12 | 19 | 21 | 0.8583 | 0 | 12 | 0 | 0 | 0.0000 |
| 135.75 | 147.25 | PL PL 3.5" x 1.25" | 120.9113 | 27.19 | 5 | 7 | 0.6353 | 129.095 | 27.19 | 5 | 7 | 0.6783 |

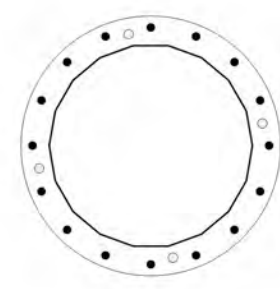
BASE PLATE ANALYSIS @ 0 FT

APPLIED REACTIONS

| Moment (k-ft) | Axial (k) | Shear (k) |
|---------------|-----------|-----------|
| 6409.29 | 67.37 | 59.4 |

PLATE PARAMETERS (ID# 31111)

| | | |
|---------------------|---------|-----|
| Width: | 68 | in |
| Shape: | Round | |
| Thickness: | 2 | in |
| Grade: | A572-60 | |
| Yield Strength: | 60 | ksi |
| Tensile Strength: | 75 | ksi |
| Rod Detail Type: | d | |
| Clear Distance | 3 | in |
| Base Weld Size: | 0.125 | in |
| Orientation Offset: | - | ° |
| Analysis Type: | Elastic | |
| Neutral Axis: | 222 | ° |



ANCHOR ROD PARAMETERS

| Class | Arrangement | Quantity | Diameter (in) | Circle (in) | Grade | F _y (ksi) | F _u (ksi) | Spacing (in) | Offset (°) |
|---------------------|-------------|----------|---------------|-------------|---------|----------------------|----------------------|--------------|------------|
| Original [ID#31926] | Radial | 16 | 2.25 | 62 | A615-75 | 75 | 100 | - | - |

DYWIDAG BAR PARAMETERS

| Quantity | Bar Size | Bar Diameter (in) | F _y (ksi) | F _u (ksi) | Bracket Type | Bracket Offset (in) | Circle (in) | Offset (°) |
|--------------|----------|-------------------|----------------------|----------------------|--------------|---------------------|-------------|------------|
| 4 [ID# 2889] | #20 | 2.5 | 80 | 100 | Angle | 2.19 | 59.63 | 11.25 |

COMPONENT PROPERTIES

| Component | ID | Gross Area (in ²) | Net Area (in ²) | Individual Inertia (in ⁴) | Moment of Inertia (in ⁴) | Threads/in |
|---------------|------------------------------|-------------------------------|-----------------------------|---------------------------------------|--------------------------------------|------------|
| Pole | 52.75"ø x 0.4375" (18 Sides) | 71.5363 | - | - | 24475.33 | - |
| Bolt Group | Original (16) 2.25"ø | 3.9761 | 3.2477 | 0.8393 | 22912.18 | 4.5 |
| Dywidag Group | (4) #20 | 4.9087 | 4.9087 | 1.9175 | 8734.76 | - |

REACTION DISTRIBUTION

| Component | ID | Moment M _u (k-ft) | Axial Load P _u (k) | Shear V _u (k) | Moment Factor |
|---------------|------------------------------|------------------------------|-------------------------------|--------------------------|---------------|
| Pole | 52.75"ø x 0.4375" (18 Sides) | 4723.6 | 67.37 | 59.40 | 0.737 |
| Bolt Group | Original (16) 2.25"ø | 4723.6 | - | 59.40 | 0.737 |
| Dywidag Group | (4) #20 | 1685.7 | - | - | 0.263 |

BASE PLATE BEND LINE ANALYSIS @ 0 FT

| POLE PROPERTIES | | | | | PLATE PROPERTIES | | |
|--------------------------|-------------------|------------------------|------------------------------------|--------------------------------------|--|--|--------------------|
| Flat-to-Flat Diameter: | 52.88 | in | Flat Width: | 9.323 | in | Neutral Axis: | 222 ° |
| Point-to-Point Diameter: | 53.69 | in | Flat Radians: | 0.349 | rad | Bend Line Limits: | 4.890 to 6.106 rad |
| Orientation Offset: | - | ° | | | | | |
| Bend Line | Chord Length (in) | Additional Length (in) | Section Modulus (in ³) | Applied Moment M _u (k-in) | Moment Capacity ΦM _n (k-in) | Flexure Result M _u /ΦM _n | |
| Flats | 38.472 | 0.00 | 38.472 | 1205.3 | 2077.5 | 58.0% | ✓ |
| Corners | 37.325 | 0.00 | 37.325 | 935.7 | 2015.6 | 46.4% | ✓ |
| Circumferential | 50.366 | 0.00 | 50.366 | 1954.4 | 2719.8 | 71.9% | ✓ |

ELASTIC ANCHOR ROD ANALYSIS

| Class | Group Quantity | Rod Diameter (in) | Applied Axial Load P_u (k) | Applied Shear Load V_u (k) | Compressive Capacity ΦP_n (k) | Compressive Result | Interaction Result |
|----------|----------------|----------------------|---------------------------------|---------------------------------|--|-----------------------|--------------------|
| Original | 16 | 2.25 | 241.3 | 0.3 | 243.6 | 0.991 | 99.3% <div>✓</div> |

DYWIDAG BAR ANALYSIS

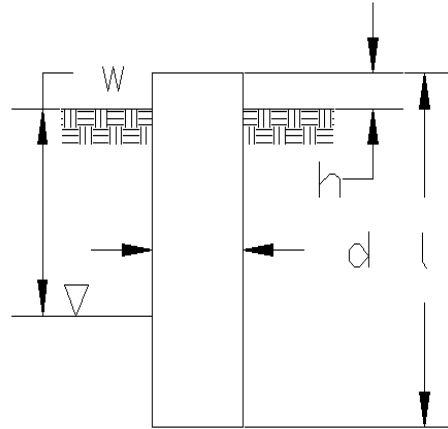
| Group Quantity | Bar Size | Bar Circle (in) | Applied Axial Load P_u (k) | Compressive Capacity ΦP_n (k) | Compressive Result $P_u / \Phi P_n$ |
|----------------|----------|--------------------|---------------------------------|--|--|
| 4 | #20 | 59.63 | 295.7 | 368.2 | 80.3% <div>✓</div> |

Site Name: Winchester CT 3, CT
Site Number: 302506
Tower Type: MP
Design Base Loads (Factored) - Analysis per TIA-222-H Standards

Pier Foundation Analysis

Foundation Analysis Parameters

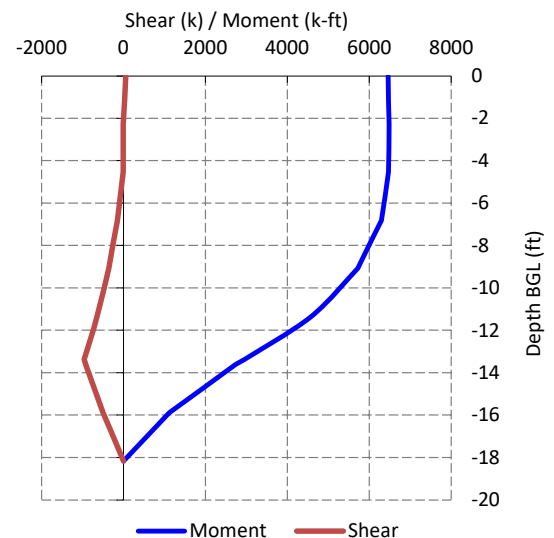
| | | |
|--|---------|------|
| Analyze or Design a Foundation? | Analyze | - |
| Foundation Mapped: | Y | - |
| Moment (M): | 6,409.3 | k-ft |
| Shear/Leg (V): | 59.4 | k |
| Axial Load (P): | 67.4 | k |
| Uplift/Leg (U): | 0.0 | k |
| Diameter of Caisson (d): | 7.4167 | ft |
| Caisson Embedment (L-h): | 18.16 | ft |
| Caisson Height Above Ground (h): | 0.83 | ft |
| Depth Below Ground Surface to Water Table (w): | 99 | ft |
| Unit Weight of Concrete: | 150 | pcf |
| Unit Weight of Water: | 62.4 | pcf |
| Tension/Compression Skin Friction Factor: | 0.75 | - |
| Pullout Angle: | 30 | ° |



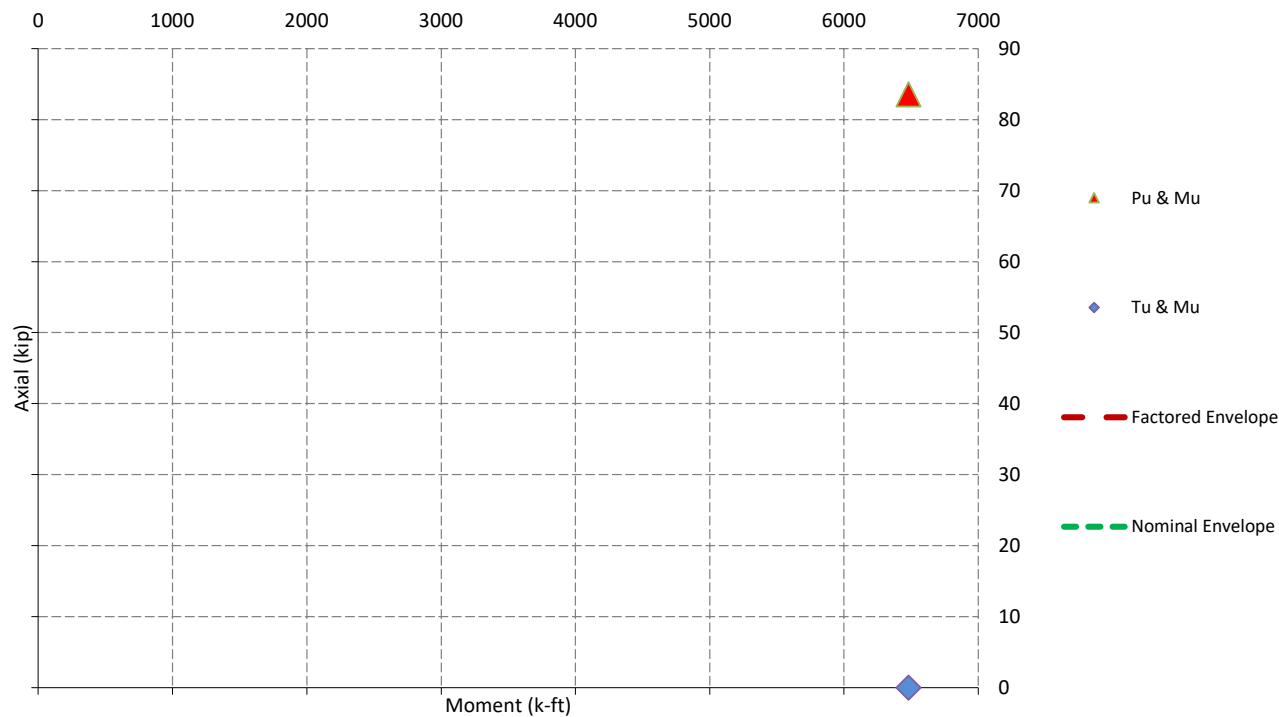
| Depth (ft) | | γ_{Soil} (pcf) | C_u (psf) | ϕ (degree) | Ultimate Skin Friction (psf) | Ultimate Bearing Pressure (psf) |
|------------|---------|---------------------------------|----------------|--------------------|---------------------------------|------------------------------------|
| Top | Bottom | | | | | |
| 0 | 3.70835 | 105 | 0 | 0 | 0 | 0 |
| 3.70835 | 19.16 | 140 | 0 | 60 | 1,300 | 91,200 |

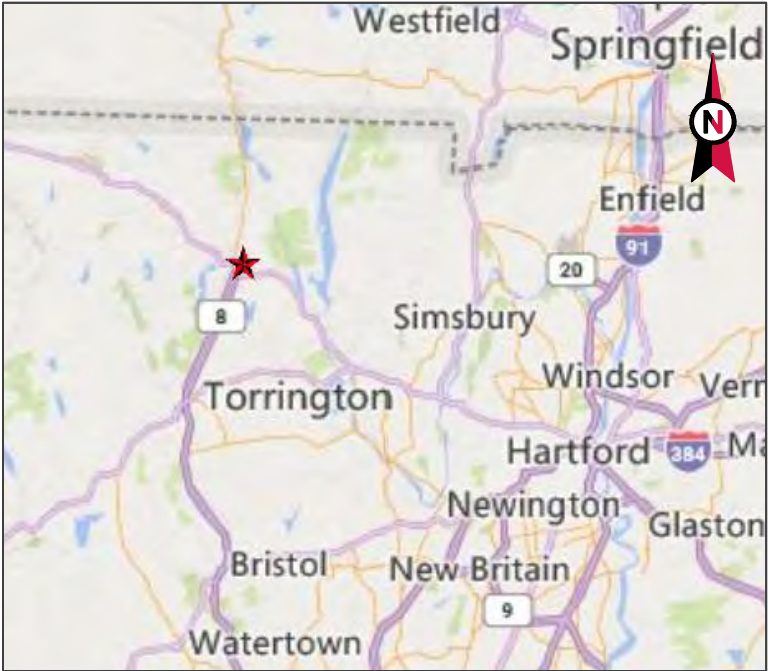
Soil Strength Capacities

| | | |
|---|---------|-----------------|
| Required Embedment: | 15.4 | ft |
| Volume of Concrete: | 820.4 | ft ³ |
| Buoyant Weight of Concrete: | 123.1 | k |
| Average Soil Unit Weight: | 132.9 | pcf |
| Skin Friction Resistance: | 437.7 | k |
| Compressive Bearing Resistance: | 3940.1 | k |
| Pullout Weight (Minus Concrete Weight): | 572.4 | k |
| Factored Uplift Capacity per Leg ($\Phi_s T_n$): | 246.2 | k |
| Factored Compressive Capacity per Leg ($\Phi_s P_n$): | 3283.4 | k |
| T_u : | 0.00 | k |
| $T_u / \Phi_s T_n$: | 0.0% | Pass |
| P_u : | 83.5 | k |
| $P_u / \Phi_s P_n$: | 2.5% | Pass |
| Total Lateral Resistance: | 5171.3 | k |
| Inflection Point (Below Ground Surface): | 13.4 | ft |
| Moment At Inflection Point (M_D): | 7252.7 | k-ft |
| Factored Moment Capacity ($\Phi_s M_n$): | 12001.3 | k-ft |
| ϕ_s : | 0.75 | - |
| $M_D / \phi_s M_n$: | 60.4% | Pass |



Nominal and Factored Moment Capacity and Factored Design Loads





VICINITY MAP



AMERICAN TOWER®

SITE NAME: WINCHESTER CT 3

SITE NUMBER: 302506


ATC PROJECT NUMBER: 14867785_C6_05

SITE ADDRESS: 15 OAKDALE AVENUE
WINSTED, CT 06098



LOCATION MAP

180 FT MONOPOLE MODIFICATIONS

| PROJECT TEAM | PROJECT INFORMATION | SHEET | SHEET TITLE | REV. |
|---|--|-------|---|------|
| <p>TOWER OWNER</p> <p>AMERICAN TOWER</p> <p>10 PRESIDENTIAL WAY</p> <p>WOBURN, MA 01801</p> <p>ENGINEERED BY</p> <p>ATC TOWER SERVICES</p> <p>1 FENTON MAIN STREET, SUITE 300</p> <p>CARY, NC 27511</p> <p>CARRIER INFORMATION</p> <p>CARRIER: VERIZON WIRELESS</p> <p>CARRIER SITE NAME: WINCHESTER E CT</p> <p>CARRIER SITE NUMBER: 5000246826</p> | <p>1. THE PROJECT DEPICTED IN THESE PLANS IS BASED ON THE RECOMMENDATIONS MADE BY ATC ENGINEERING, DERIVED FROM THE RESULTS OF THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 14867785_C3_03 DATED 07/01/24. SATISFACTORY COMPLETION OF THE WORK INDICATED IN THESE PLANS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.</p> <p>2. SEE SHEET S-201 FOR MODIFICATION SCOPE OF WORK (SOW) AND ANY ADDITIONAL WORK TO BE COMPLETED.</p> <p>PROJECT NOTE</p> <p>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 § 1.6100 (B)(7).</p> <p>COMPLIANCE CODE</p> <p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. ANSI/TIA/EIA: STRUCTURAL STANDARDS (222-1 EDITION)</p> <p>2. INTERNATIONAL BUILDING CODE (2021 IBC)</p> <p>3. CONNECTICUT STATE BUILDING CODE (2022)</p> | G-001 | COVER | 0 |
| | | G-002 | IBC GENERAL NOTES | 0 |
| | | G-003 | SPECIAL INSPECTION CHECKLIST | 0 |
| | | G-004 | BILL OF MATERIALS | 0 |
| | | S-201 | MODIFICATION PROFILE | 0 |
| | | S-501 | ADDITIONAL #20 BRACKET INSTALLATION DETAILS | 0 |
| | | S-502 | #20 BAR BRACKET ORIENTATION & COUPLING DETAILS | 0 |
| | | S-503 | FLAT PLATE INSTALLATION DETAILS | 0 |
| | | S-504 | FLAT PLATE STEP BOLT BRACKET FABRICATION & INSTALLATION DETAILS | 0 |
| | | Z-501 | FLAT PLATE FABRICATION DETAILS | 0 |
|  | <p>PROJECT LOCATION</p> <p>GEOGRAPHIC COORDINATES</p> <p>LATITUDE: 41.92162071</p> <p>LONGITUDE: -73.04944343</p> | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



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

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098



| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

| | |
|------------------------|----------------|
| COVER | |
| SHEET NUMBER: G-001 | REVISION: 0 |

GENERAL

2. ALL WORK TO BE COMPLETED PER APPLICABLE LOCAL, STATE, FEDERAL CODES AND ORDINANCES AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS FOR WIRELESS TOWER SITES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND ABIDING BY ALL REQUIRED PERMITS.
2. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
4. ANY SUBSTITUTIONS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
5. ANY MANUFACTURED DESIGN ELEMENTS SHALL CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER ANSI/TIA-322 AND ANSI/ASSE A10.48, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
8. CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

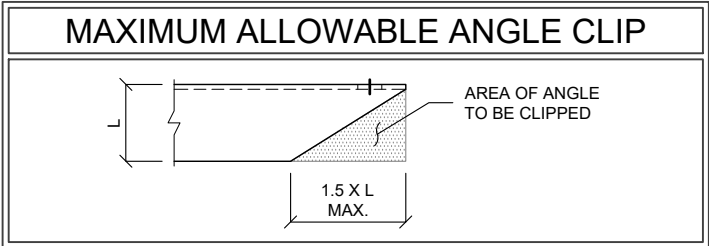
1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- a. ALL W-SHAPES: ASTM A572, GRADE 50, UNLESS NOTED OTHERWISE.

b. ALL OTHER ROLLED SHAPES: ASTM A36, UNLESS NOTED OTHERWISE.

c. HSS SECTION (SQUARE, RECTANGULAR, AND ROUND): ASTM A500, GRADE B, UNLESS NOTED OTHERWISE.

d. ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS: ASTM A3125 GRADE A325, TYPE SC OR N, UNLESS NOTED OTHERWISE.

e. ALL ANCHOR RODS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE.
2. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
3. ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
4. FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
5. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
6. ALL STRUCTURAL STEEL EMBEDDED IN THE CONCRETE SHALL BE APPLIED WITH (2) BRUSHED COATS OF POLYGUARD CA-9 MASTIC OR EQUIVALENT. REFER TO THE MANUFACTURER SPECIFICATIONS FOR SURFACE PREPARATION AND APPLICATION. APPLICATION OF POLYGUARD 400 WRAP IS NOT ESSENTIAL.
7. CONTRACTOR SHALL PERFORM WORK ON ONLY ONE (1) TOWER FACE AND REPLACE/REINFORCE ONE (1) BOLT/MEMBER AT A TIME.
8. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.



TOLERANCES

1. TOLERANCES ON ALL INSTALLATIONS ARE ±1", UNLESS NOTED OTHERWISE.
2. TOLERANCES ON FABRICATION DIMENSIONS ARE ±0.030" FOR MACHINING AND ±0.060" FOR STRUCTURAL, UNLESS NOTED OTHERWISE.

WELDING

1. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
2. ALL WELDS SHALL BE INSPECTED VISUALLY. IF DIRECTED BY ENGINEER OF RECORD, 25% OF WELDS SHALL BE INSPECTED WITH EITHER ULTRASONIC OR MAGNETIC PARTICLE METHODS. (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTABLE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY. 100% OF ALL FULL PENETRATION WELDS SHALL BE INSPECTED WITH EITHER ULTRASONIC OR MAGNETIC PARTICLE METHODS.
3. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
4. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER AND/OR BASE METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
5. IN CASES WHERE BASE METAL GRADE IS UNKNOWN, ALL WELDING ON LATTICE TOWERS SHALL BE DONE WITH E70XX ELECTRODES; ALL WELDING ON POLE STRUCTURES SHALL BE DONE WITH E80XX ELECTRODES, UNLESS NOTED OTHERWISE.
6. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

PAINT

1. AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1L.

BOLT TIGHTENING PROCEDURE

1. STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC SPECIFICATIONS.
2. ALL BOLTS WHOSE AXES ARE INSTALLED VERTICALLY, UNLESS OTHERWISE NOTED, SHALL BE INSTALLED AND TIGHTENED PER SECTION 8.2.1 THROUGH 8.2.4 OF THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" PER THE FOLLOWING GUIDELINES:

FOR A325 BOLTS 1" DIAMETER AND LESS:

- a. DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS: WASHERS SHALL BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.

FOR A325 BOLTS EXCEEDING 1" DIAMETER AND ALL OTHER HIGH STRENGTH BOLTS, ONE OF THE FOLLOWING METHODS SHALL BE USED:

- a. DIRECT TENSION INDICATING (DTI) SQUIRTER WASHERS: WASHERS SHALL BE INSTALLED AND ORIENTED / TIGHTENED PER MANUFACTURER SPECIFICATIONS TO ACHIEVE DESIRED LEVEL OF BOLT PRE-TENSION.
- b. RCSC "TURN-OF-THE-NUT" METHOD: PRIOR TO APPLICATION OF TURN-OF-NUT PRETENSIONING, ALL BOLTS IN THE CONNECTION SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN RCSC SECTION 8.1, AND MATCH-MARKING OF THE NUTS AND PROTRUDING END OF THE BOLTS MUST BE IMPLEMENTED FOR ALL BOLTS IN THE CONNECTION.

SUBSEQUENTLY, ALL BOLTS SHALL BE ROTATED BEYOND SNUG TIGHT CONDITION USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

| | | |
|--------|---|-----------------------------|
| 1/2" | BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 5/8" | BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 3/4" | BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 7/8" | BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1" | BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/8" | BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/4" | BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-3/8" | BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |
| 1-1/2" | BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH | +1/3 TURN BEYOND SNUG TIGHT |

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

| | | |
|--------|--------------------------------|-----------------------------|
| 1/2" | BOLTS 2.25 TO 4.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 5/8" | BOLTS 2.75 TO 5.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 3/4" | BOLTS 3.25 TO 6.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 7/8" | BOLTS 3.75 TO 7.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1" | BOLTS 4.25 TO 8.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/8" | BOLTS 4.75 TO 9.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/4" | BOLTS 5.25 TO 10.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-3/8" | BOLTS 5.75 TO 11.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |
| 1-1/2" | BOLTS 6.25 TO 12.0 INCH LENGTH | +1/2 TURN BEYOND SNUG TIGHT |

3. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

BOLT TIGHTENING PROCEDURE (CONT'D)

4. ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

APPLICABLE CODES AND STANDARDS

1. ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-I EDITION.
2. 2022 CONNECTICUT STATE BUILDING CODE.
3. 2021 INTERNATIONAL BUILDING CODE.
4. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. REFERENCE LATEST APPROPRIATE EDITION TO MATCH LOCAL AND/OR INTERNATIONAL BUILDING CODE(S) LISTED ABOVE.
5. CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
6. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
7. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2021, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:

a) STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY).

b) HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD).
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2021, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.

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

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| △ | FIRST ISSUE | CWB | 08/30/24 |
| △ | | | |
| △ | | | |
| △ | | | |
| △ | | | |

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

Digitally Signed: 2024-09-06

| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

IBC GENERAL NOTES

SHEET NUMBER:
G-002

REVISION:
0

MODIFICATION INSPECTION NOTES

THE SPECIAL INSPECTION (SI) PROCEDURE IS INTENDED TO CONFIRM THAT CONSTRUCTION AND INSTALLATION MEETS ENGINEERING DESIGN, ATC PROCEDURES AND ATC STANDARD SPECIFICATIONS FOR WIRELESS TOWER SITES.

TO ENSURE THAT THE REQUIREMENTS OF THE SI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR AND THE INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED FROM AMERICAN TOWER CORPORATION (ATC). IT IS EXPECTED THAT EACH PARTY WILL PROACTIVELY REACH OUT TO THE OTHER PARTY. IF CONTACT INFORMATION IS NOT KNOWN, CONTACT YOUR AMERICAN TOWER POINT OF CONTACT.

SPECIAL INSPECTOR

THE SPECIAL INSPECTOR IS REQUIRED TO CONTACT THE GENERAL CONTRACTOR AS SOON AS RECEIVING A PO FROM ATC. UPON RECEIVING A PO FROM ATC THE SPECIAL INSPECTOR AT A MINIMUM MUST:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE GENERAL CONTRACTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- ANY CONCERNS WITH THE SCOPE OF WORK OR PROJECT COMMITMENT MUST BE RELAYED TO THE ATC POINT OF CONTACT IMMEDIATELY.

THE SPECIAL INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GENERAL CONTRACTOR INSPECTION AND TEST REPORTS, REVIEWING THESE DOCUMENTS FOR ADHERENCE TO CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE SI REPORT TO AMERICAN TOWER CORPORATION.


GENERAL CONTRACTOR

THE GENERAL CONTRACTOR IS REQUIRED TO CONTACT THE SI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE SI CHECKLIST.
- WORK WITH THE SI TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS.

THE GENERAL CONTRACTOR SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE SI CHECKLIST.

| SPECIAL INSPECTION CHECKLIST | | | | | | | | |
|---|--|-----------------------------|----------------|--------------------|-----------|---------|----------------------|------------|
| INSPECTION DOCUMENT | DESCRIPTION | INSPECTION TESTING REQUIRED | RESPONSIBILITY | SI REVIEW REQUIRED | | | INSPECTION FREQUENCY | |
| | | | | PRE CX | DURING CX | POST CX | PERIODIC | CONTINUOUS |
| SPECIAL INSPECTION FIELD WORK & REPORT | DOCUMENTATION AND SITE VISIT CONDUCTED BY AN ATC APPROVED SPECIAL INSPECTOR AS REQUIRED BY ATC AND OTHER AUTHORITIES HAVING JURISDICTION. INSPECTION PARAMETERS TO FOLLOW ATC'S STANDARD SPECIFICATION FOR WIRELESS TOWER SITES. | ✓ | SI | | | ✓ | | |
| ENGINEERING ASSEMBLY DRAWINGS | GC SHALL SUBMIT DRAWINGS TO SI FOR INCLUSION IN SI REPORT | ✓ | GC | ✓ | | | | |
| FABRICATED MATERIAL VERIFICATION & INSPECTION | MTR AND OR MILL CERTIFICATIONS FOR SUPPLIED MATERIALS GC SHALL SUPPLY SI WITH REPORTS TO BE INCLUDED IN SI REPORT WHEN REQUIRED BY ATC | ✓ | SI | ✓ | | | | |
| CERTIFIED WELD INSPECTION | INSPECTION AND REPORT OF STRUCTURAL WELDING PERFORMED DURING PROJECT COMPLETED BY A CWI AND INCLUDED WITHIN SI REPORT | | GC / TA | | | | | |
| FOUNDATION INSPECTION & VERIFICATION | VISUAL OBSERVATION AND APPROVAL OF FOUNDATION EXCAVATION, REBAR PLACEMENT, CASING/SHORING/FORMING PLACEMENT, AND ANCHOR TEMPLATE AND ANCHOR PLACEMENT - TO BE SI APPROVED PRIOR TO CONCRETE POUR AND DOCUMENTED IN THE SI REPORT | | SI | | | | | |
| ANCHOR, ROCK ANCHOR OR HELICAL PULL-OUT TEST | PULL TESTING OF INSTALLED ANCHORS TO BE COMPLETED AND DOCUMENTED IN SI REPORT | | GC / TA | | | | | |
| CONCRETE INSPECTION & VERIFICATION | CONCRETE MIX DESIGN, SLUMP TEST, COMPRESSIVE TESTING, AND SAMPLE GATHERING TECHNIQUES ARE TO BE PROVIDED FOR INCLUSION IN THE SI REPORT. SI SHALL VERIFY CONCRETE PLACEMENT AS REQUIRED BY THE DESIGN DOCUMENTS (INSPECTION FREQUENCY IS MARKED CONTINUOUS) | | GC / TA | | | | | |
| DYWIDAG PLACEMENT/ANCHOR BOLT EMBEDMENT - EPOXY/GROUT INSTALL | ANCHOR/BAR EMBEDMENT, HOLE SIZE, EPOXY/GROUT TYPE, INSTALLATION TEMPERATURE AND INSTALLATION SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT | | GC / SI | | | | | |
| BASE PLATE GROUT INSPECTION & VERIFICATION | BASE PLATE GROUTING TYPE AND PLACEMENT SHALL BE CONFIRMED BY THE SI AND INCLUDED IN THE SI REPORT | | GC / SI | | | | | |
| EARTHWORK INSPECTION & VERIFICATION | EXCAVATION, FILL, SLOPE, GRADE AND OTHER EARTHWORK REQUIREMENTS PER PLANS SHALL BE VERIFIED BY THE SI AND INCLUDED IN THE SI REPORT | | GC / TA | | | | | |
| COMPACTION VERIFICATION | CONTRACTOR SHALL PROVIDE AN INDEPENDENT THIRD PARTY CERTIFIED INSPECTION WHICH PROVIDES TEST RESULTS FOR COMPACTION TEST OF SOILS IN PLACE TO ASTM STANDARDS. | | GC / TA | | | | | |
| GROUND TESTING & VERIFICATION | GC SHALL PROVIDE DOCUMENTATION SHOWING THAT THE GROUNDING SYSTEM SHALL HAVE A MEASURED RESISTANCE TO THE GROUND OF NOT MORE THAN THE RECOMMENDED 10 OHMS. PER THE ATC CONSTRUCTION SPECIFICATION UNDER SECTION 2.15 THIS DOCUMENTATION MUST BE AN INDEPENDENT CERTIFICATION. | | GC | | | | | |
| STEEL CONSTRUCTION INSPECTION & VERIFICATION | VISUAL OBSERVATION AND APPROVAL OF STEEL CONSTRUCTION TO BE PERFORMED BY THE SI. INSPECTION TO INCLUDE VERIFICATION OF NEW CONSTRUCTION OR MODIFICATION OF EXISTING CONSTRUCTION PER ENGINEERED PLANS. DETAILED VERIFICATION SHALL BE INCLUDED IN SI REPORT. | ✓ | SI | | | ✓ | ✓ | |
| ON-SITE COLD GALVANIZING VERIFICATION | SI SHALL VERIFY WITH GC ALL COLD GALVANIZATION TYPE AND APPLICATION AND INCLUDE SUMMARY IN SI REPORT | ✓ | GC | | | ✓ | ✓ | |
| GUY WIRE TENSIONING & TOWER ALIGNMENT REPORT | GC SHALL PROVIDE SI EVIDENCE OF PROPER GUY TENSIONING AND TOWER PLUMB PER PLANS. SI SHALL VERIFY AND INCLUDE PLUMB AND TENSION REPORTING IN SI REPORT. | | GC | | | | | |
| GC AS-BUILT DRAWINGS WITH CONSTRUCTION RED-LINES | GC SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS TO SI FOR APPROVAL/REVIEW AND INCLUSION IN SI REPORT | ✓ | GC | | | ✓ | | |
| SI AS-BUILT DRAWINGS WITH INSPECTION RED-LINES (AS REQUIRED) | SI SHALL SUBMIT "AS-BUILT" DRAWINGS INDICATING ANY APPROVED CHANGES TO ENGINEERED PLANS WITHIN SI REPORT | ✓ | SI | | | ✓ | | |
| TIA INSPECTION | SI SHALL COMPLETE TIA INSPECTION AND PROVIDE SEPARATE TIA INSPECTION DOCUMENTATION TO ATC CM | | SI | | | | | |
| PHOTOGRAPHS | PHOTOGRAPHIC EVIDENCE OF SPECIAL INSPECTION, ON SITE REMEDIATION, AND ITEMS FAILING INSPECTION & REQUIRING FOLLOW UP TO BE INCLUDED WITHIN THE SI REPORT. COMPLETE PHOTO LOG IS TO BE SUBMITTED WITHIN SI REPORT. | ✓ | GC / SI | | | ✓ | | |
| NOTE: SPECIAL INSPECTIONS ARE INTENDED TO BE A COLLABORATIVE EFFORT BETWEEN GC AND SI. WHENEVER POSSIBLE GC IS TO PROVIDE SI WITH PHOTOGRAPHIC OR OTHER ACCEPTABLE EVIDENCE OF PROPER INSTALLATION IF PERIODIC INSPECTION FREQUENCY IS ACCEPTABLE. THE GC AND SI SHALL WORK TO COMPILE EVIDENCE OF PROPER CONSTRUCTION AND LIMIT THE NUMBER OF SI SITE VISITS REQUIRED. | | | | | | | | |
| TABLE KEY: SI - ATC APPROVED SPECIAL INSPECTOR CX - CONSTRUCTION GC - GENERAL CONTRACTOR CM - CONSTRUCTION MANAGER TA - 3RD PARTY TESTING AGENCY ATC - AMERICAN TOWER CORPORATION | | | | | | | | |



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

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098




Digitally Signed: 2024-09-06

| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

| SPECIAL INSPECTION CHECKLIST | |
|-------------------------------|-----------------------|
| SHEET NUMBER: G-003 | REVISION: 0 |

Copyright © 2024 ATC IP LLC, All Rights Reserved.

| BILL OF MATERIALS | | | | | | | | |
|---|----------------------|-------------------|---|-----------|--------------|----------------|----------------|------------------------|
| QUANTITY REQUIRED | QUANTITY PROVIDED | PART NUMBER | DESCRIPTION | LENGTH | SHEET LIST | PART WEIGHT | WEIGHT (lb) | NOTES |
| #20 DYWIDAG REINFORCEMENT MATERIAL & HARDWARE | | | | | | | | |
| 8 | 8 | BR-20C | L 6" X 3 1/2" X 3/8" | 1'-0" | S-501 | 12.3 | 98 | CONCENTRIC |
| 8 | 8 | BR-20E | L 6" X 3 1/2" X 3/8" | 1'-0" | S-501 | 12.3 | 98 | ECCENTRIC |
| 32 | 34 | NG-0625-0875-A490 | NEXGEN2 BLIND BOLT ASSEMBLY M20 W/ SPRING SLEEVE A490 | ---- | ---- | ---- | ---- | ALLFASTENERS - 2NG2060 |
| 32 | 34 | UB-580-3'25 | U-BOLT ASSEMBLIES FOR #20 ROD | ---- | ---- | ---- | ---- | GALVANIZED |
| FLAT PLATE MATERIAL & HARDWARE | | | | | | | | |
| 4 | 4 | 302506-1 | PL 1 1/4" X 3 1/2' | 15'-0' | S-503, Z-501 | 234.5 | 938 | |
| 76 | 80 | NG-1438-1875-A490 | NEXGEN2 BLIND BOLT ASSEMBLY M20 W/ SPRING SLEEVE A490 | ---- | ---- | ---- | ---- | ALLFASTENERS - 2NG2048 |
| 12 | 17 | FPSB | FLAT PLATE STEP BOLT WELDMENT | 0'-7 1/4" | S-504 | 2.0 | 34 | |
| TOTAL WEIGHT (lb) | | | | | | | 1,168 | PAGE 1 OF 1 |



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


THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098



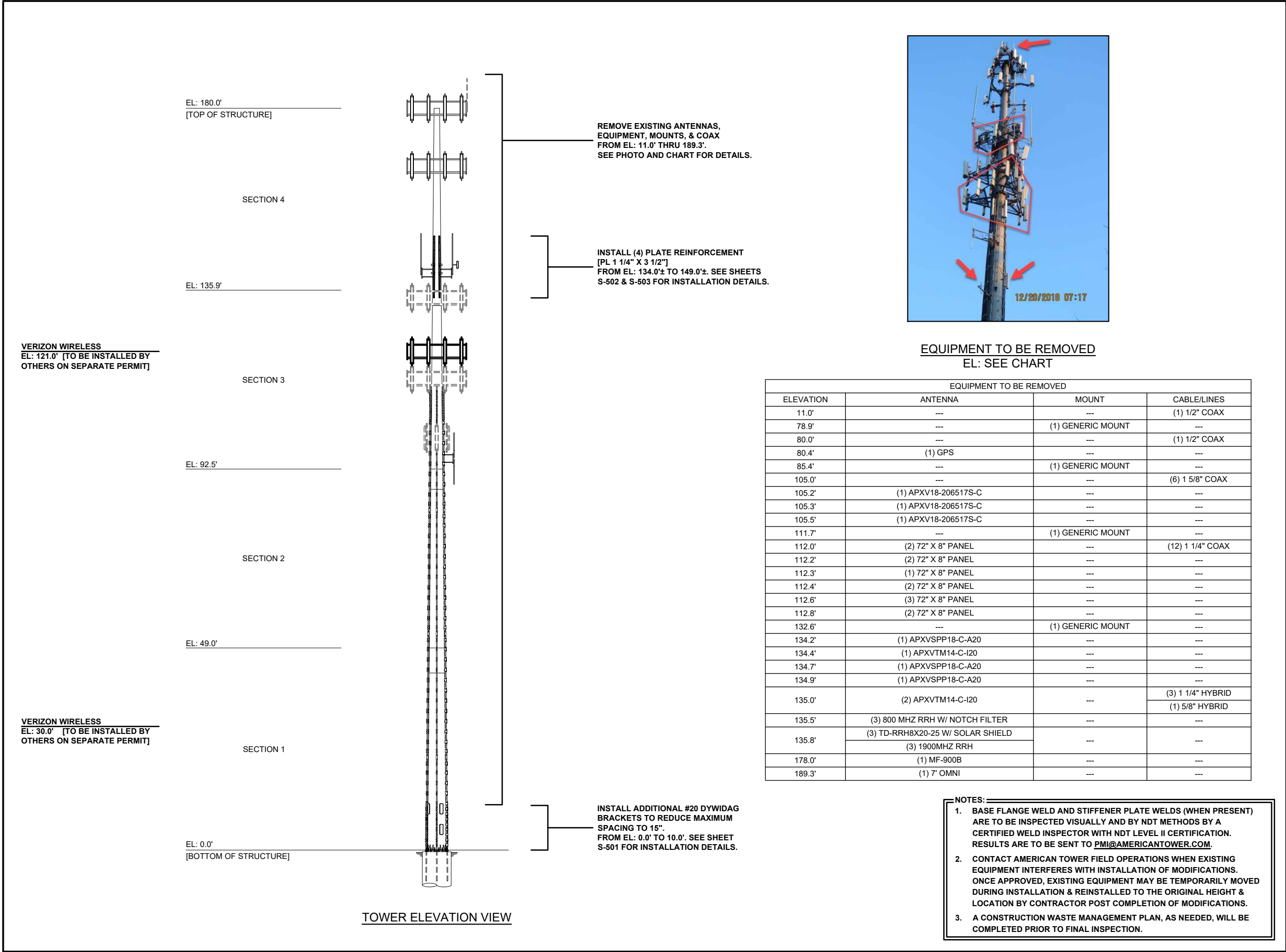
Digitally Signed: 2024-09-06


| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

BILL OF MATERIALS

| | |
|------------------------|----------------|
| SHEET NUMBER: G-004 | REVISION: 0 |
|------------------------|----------------|

Copyright © 2024 ATC IP LLC, All Rights Reserved.





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

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098



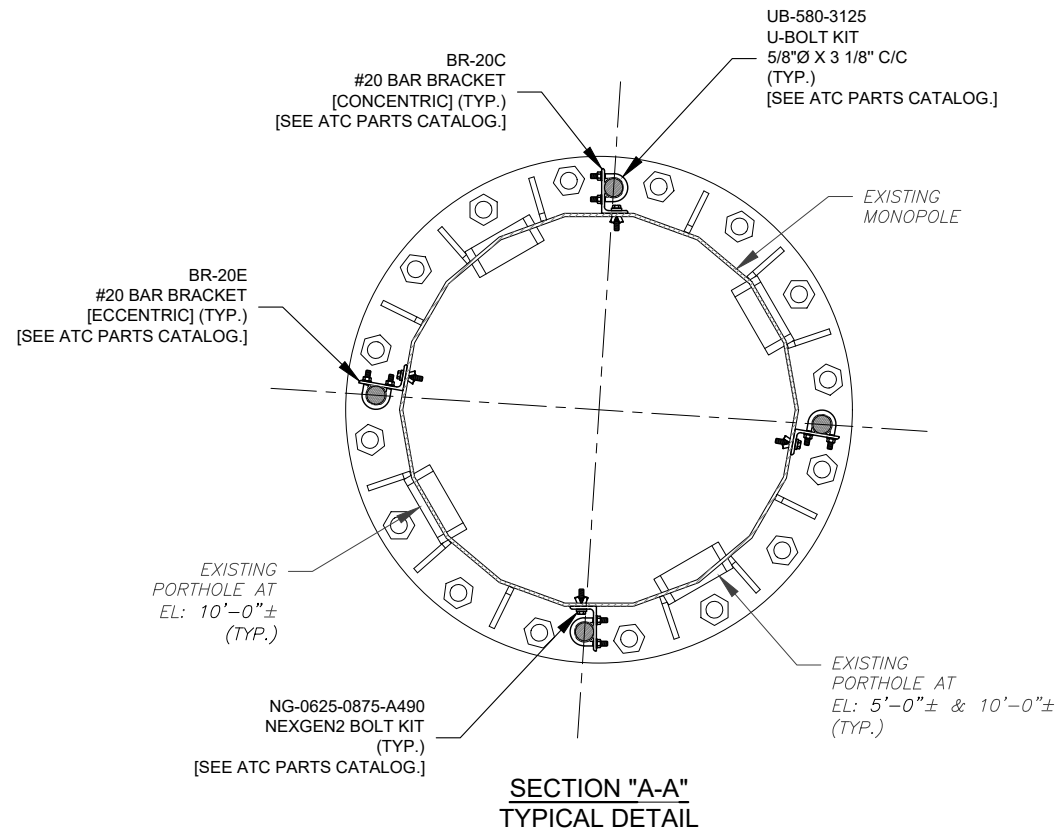
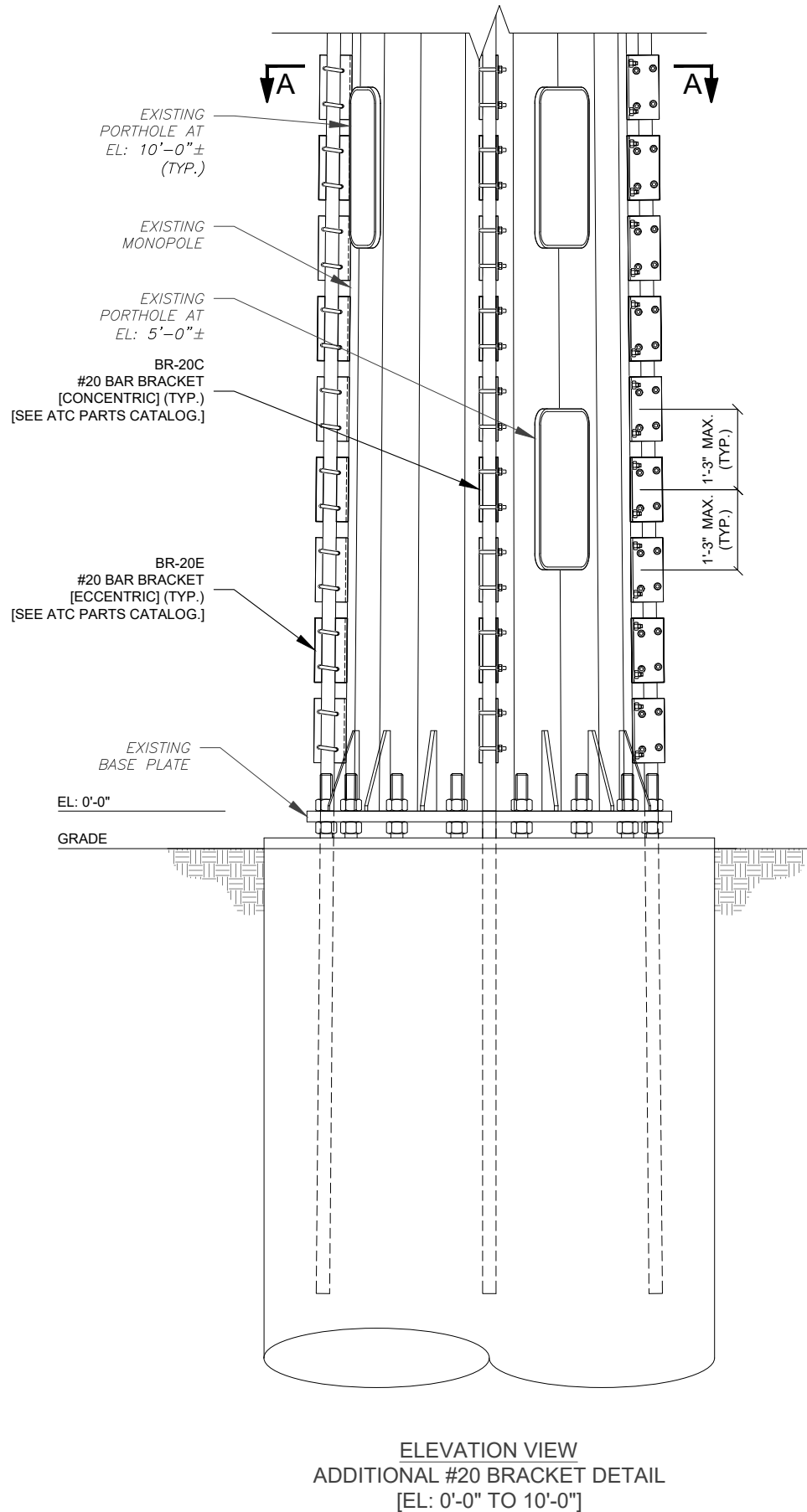
Digitally Signed: 2024-09-06

| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

MODIFICATION PROFILE

SHEET NUMBER:
S-201

REVISION:
0



NOTE:
SEE SHEET S-502 FOR #20 ALL THREAD ROD BRACKET INSTALLATION DETAILS.

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302506
ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098



Digitally Signed: 2024-09-06

| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

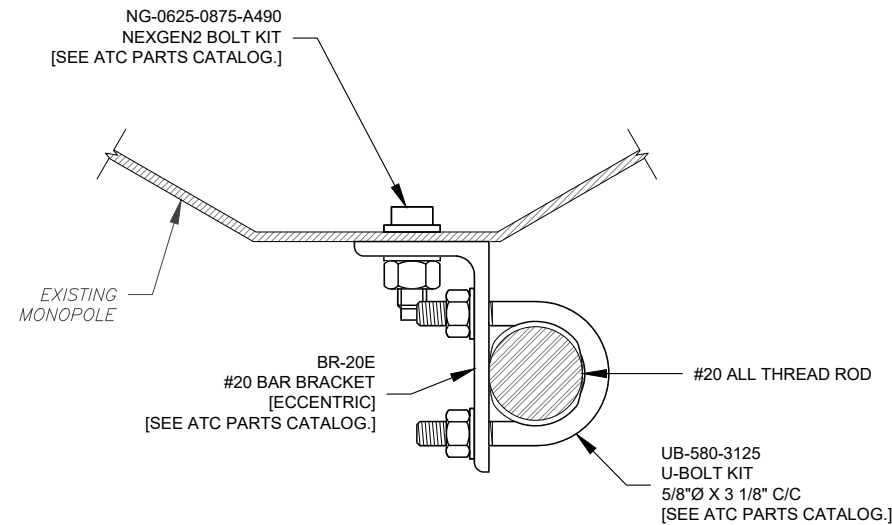
ADDITIONAL #20 BRACKET
INSTALLATION DETAILS

SHEET NUMBER:

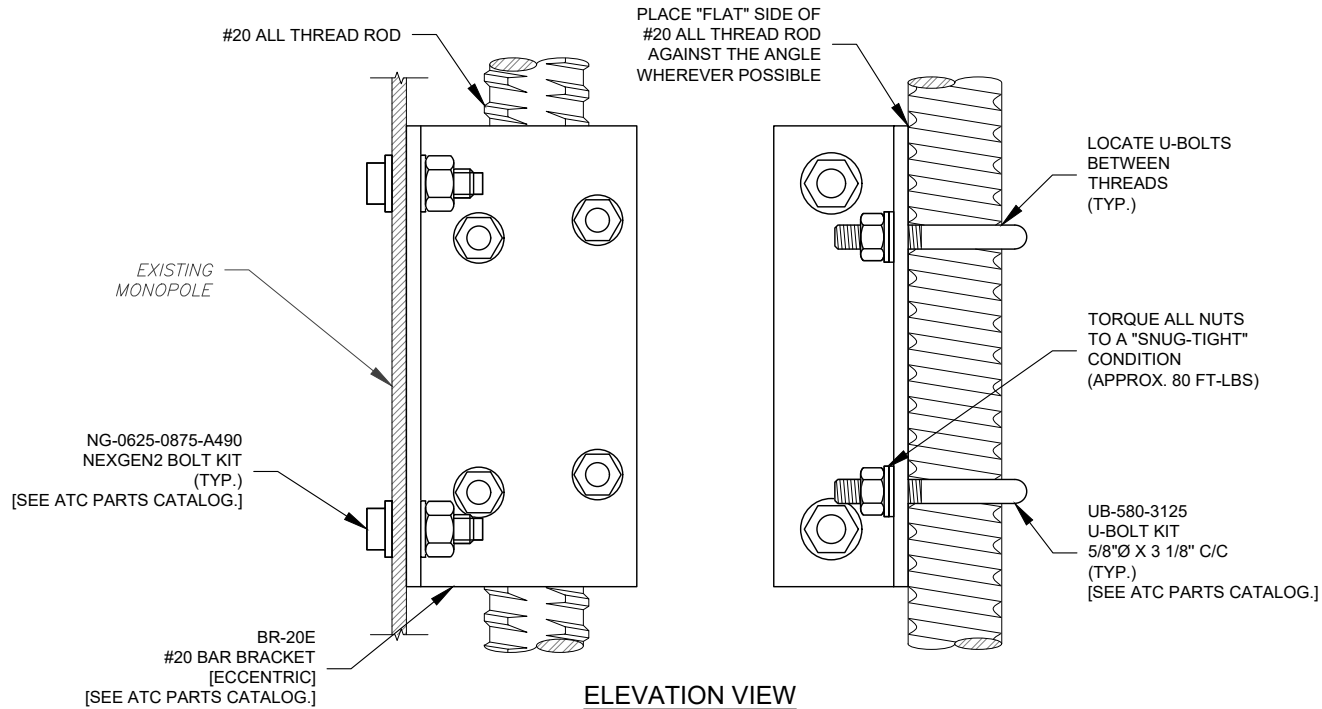
S-501

REVISION:

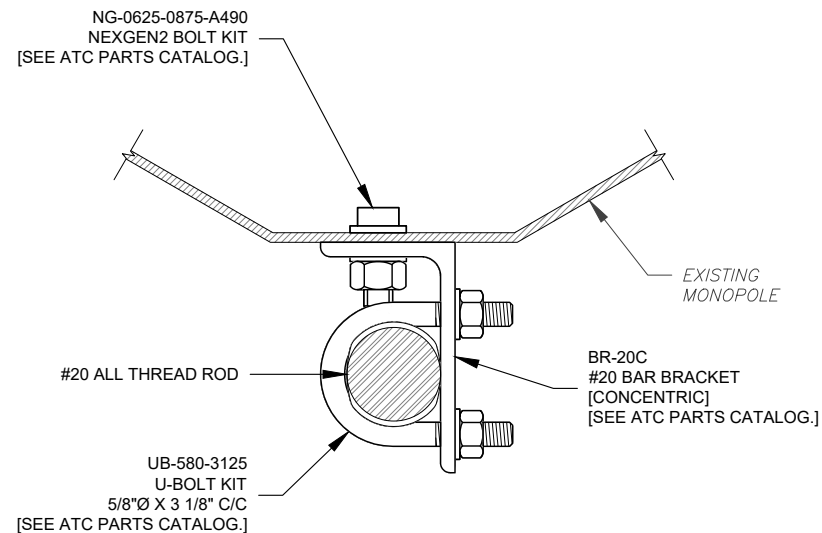
0



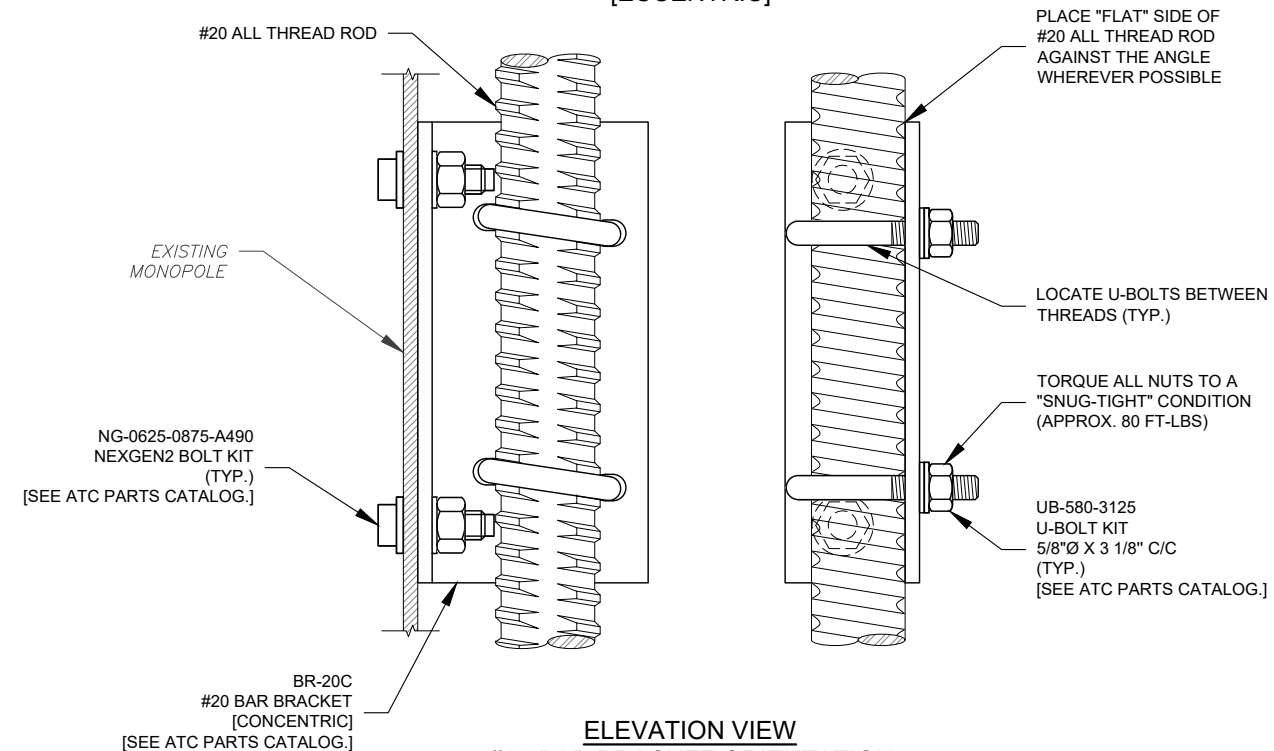
PLAN VIEW
#20 BAR BRACKET ORIENTATION
[ECCENTRIC]



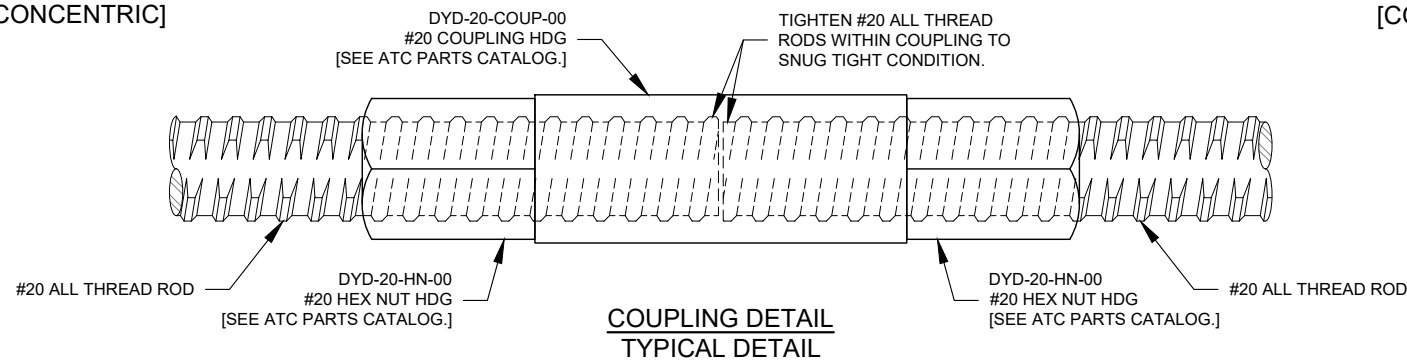
ELEVATION VIEW
#20 BAR BRACKET ORIENTATION
[ECCENTRIC]



PLAN VIEW
#20 BAR BRACKET ORIENTATION
[CONCENTRIC]



ELEVATION VIEW
#20 BAR BRACKET ORIENTATION
[CONCENTRIC]



THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302506
ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

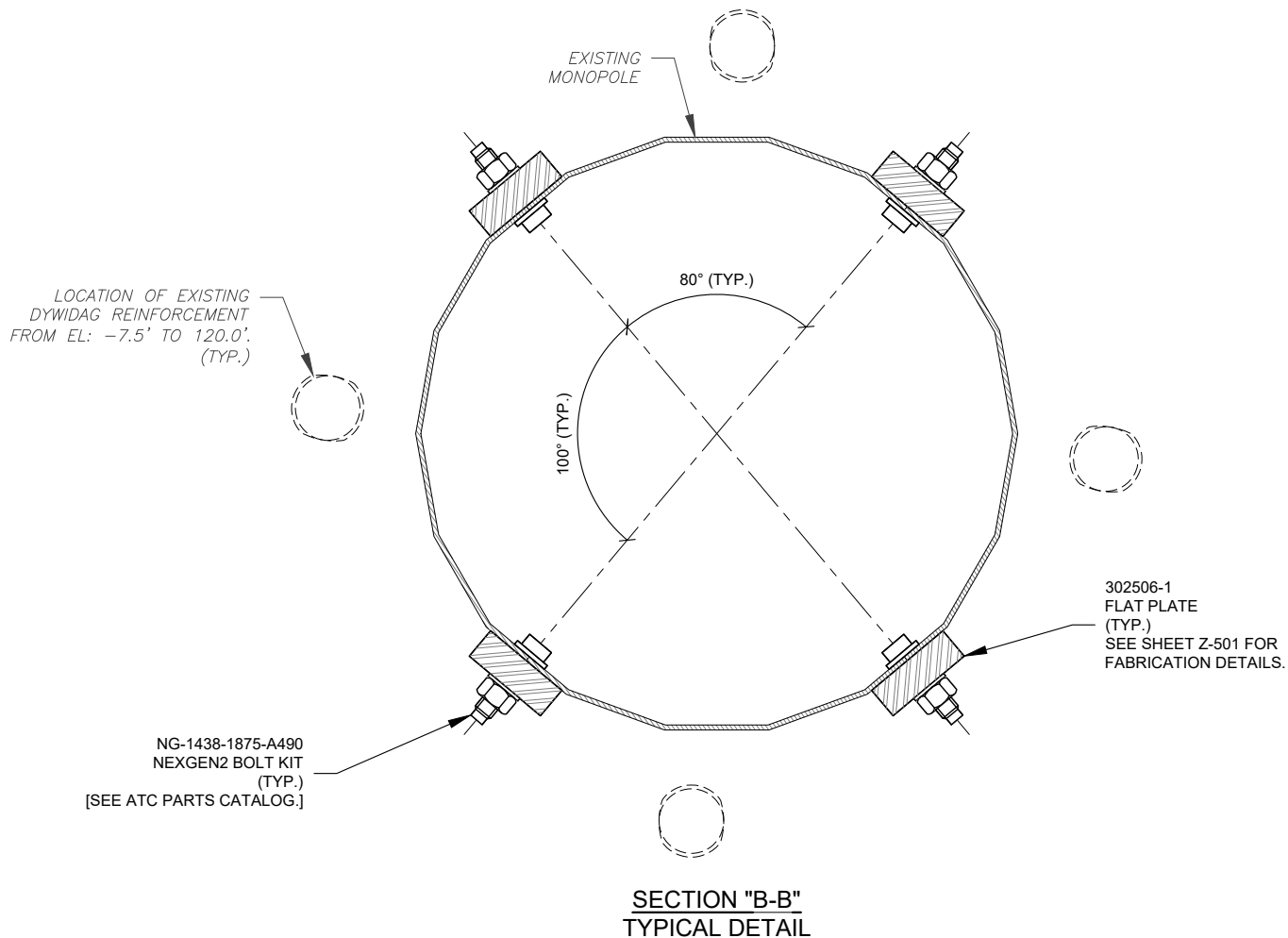
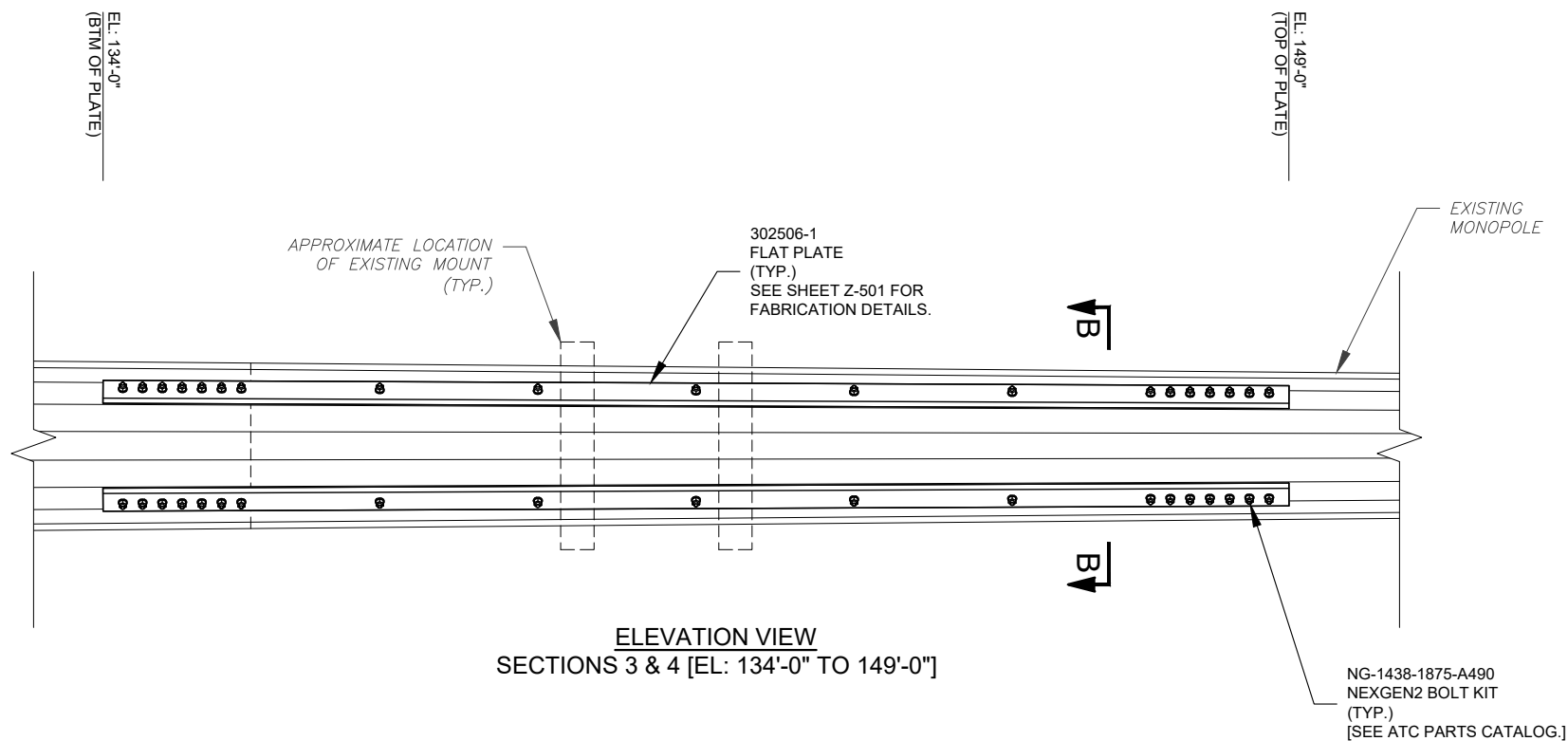


Digitally Signed: 2024-09-06

| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

**#20 BAR BRACKET
ORIENTATION &
COUPLING DETAILS**

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| S-502 | 0 |



- NOTES:**
- REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH THE NEW FLAT PLATE REINFORCEMENTS. THE NEW STEP BOLTS SHALL BE ATTACHED TO THE FLAT PLATE IN THE SAME APPROXIMATE LOCATION. SEE SHEET S-503 FOR INSTALLATION DETAILS.
 - NG-0938-1438-A490 NEXGEN2 BOLT KITS ARE SUPPLIED AS REQUIRED FOR FLAT PLATE CONNECTIONS THAT FALL WITHIN SLIP JOINT LOCATIONS.

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| | | | |
| | | | |
| | | | |
| | | | |

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

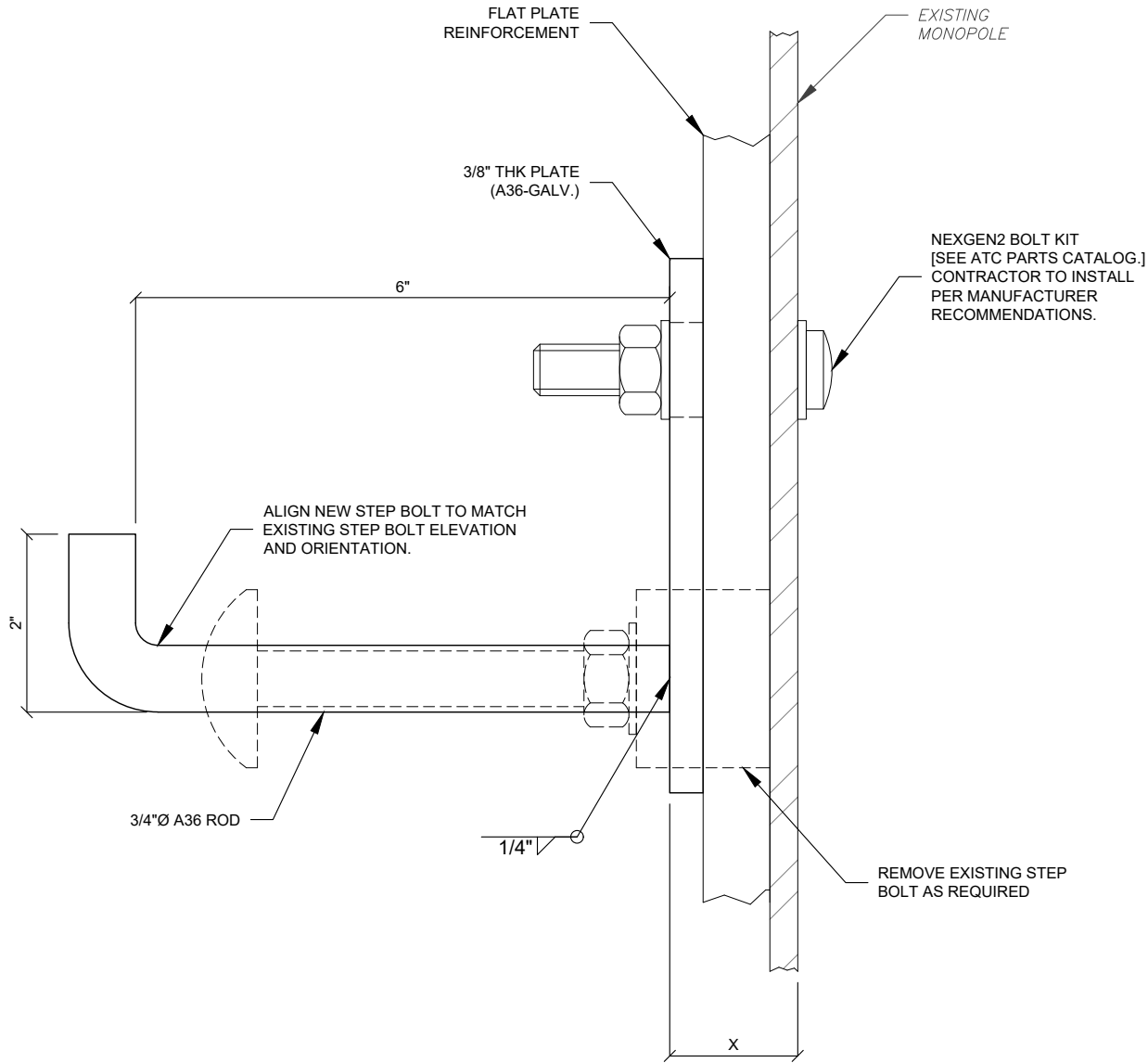
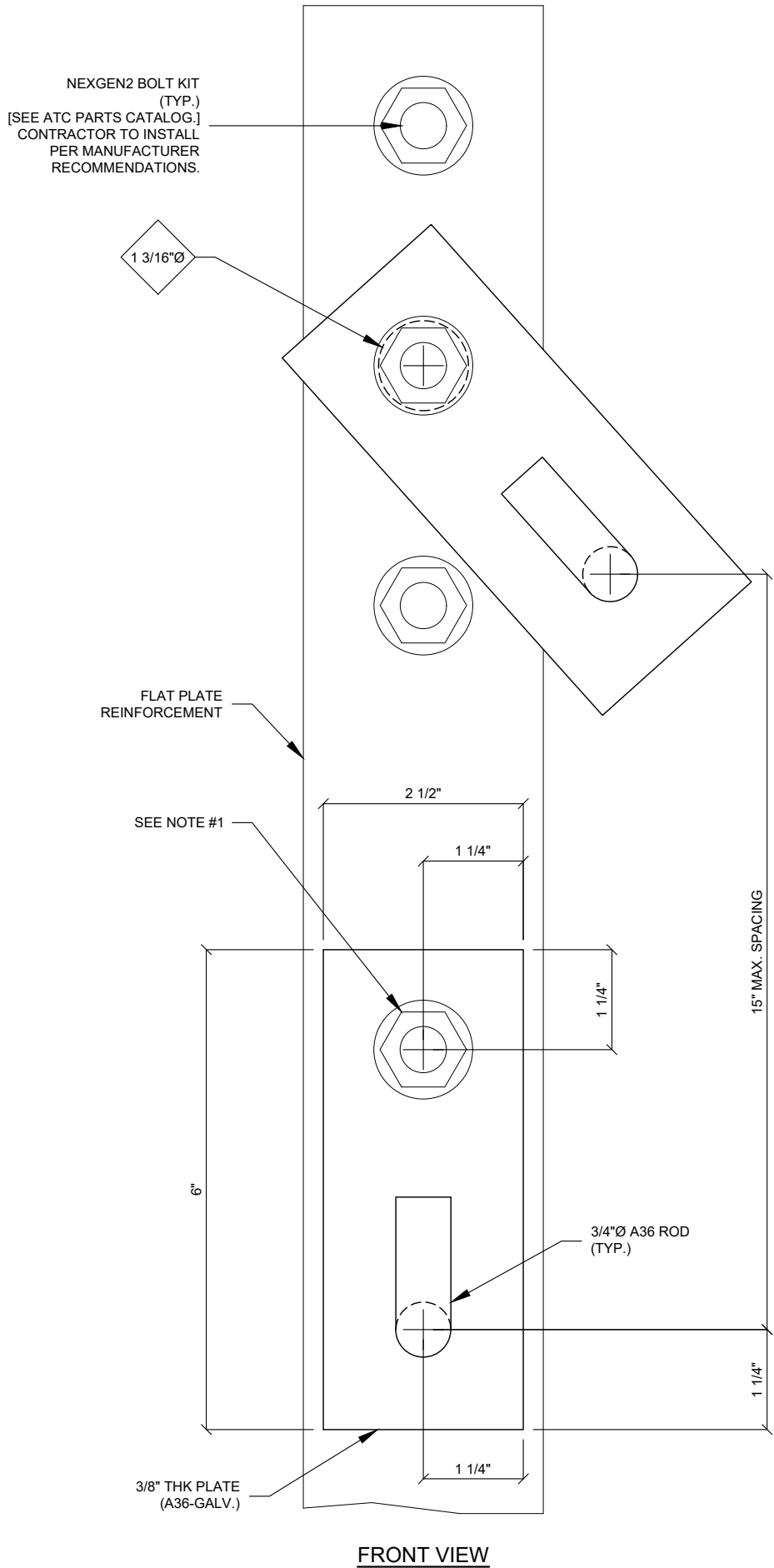


Digitally Signed: 2024-09-06

| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

FLAT PLATE
INSTALLATION DETAILS

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| S-503 | 0 |



SIDE VIEW

| NEXGEN2 BLIND BOLTS (A490) | | |
|----------------------------|-------------|---------------|
| ATC KIT NUMBER | ALLFASTENER | RANGE (IN) |
| NG-0625-0875-A490 | 2NG2060 | 0.625-0.875 |
| NG-0938-1438-A490 | 2NG2036 | 0.9375-1.4375 |
| NG-1438-1875-A490 | 2NG2048 | 1.4375-1.875 |
| NG-1875-2250-A490 | 2NG2057 | 1.875-2.25 |
| NG-2250-2688-A490 | 2NG2068 | 2.25-2.6875 |
| NG-2688-3750-A490 | 2NG2096 | 2.6875-3.75 |
| NG-3750-5000-A490 | 2NG2127 | 3.75-5 |
| NG-5000-8313-A490 | 2NG2212 | 5-8.3125 |

- NOTES:
- BLIND BOLT LENGTHS TO BE VERIFIED PRIOR TO FLAT PLATE AND STEP BOLT INSTALLATION. USE NEXGEN2 BLIND BOLT CHART.
 - STEP PEG SPACING IS NOT TO EXCEED 15" MAX. STAGGERED OR 30" MAX. ON ANY SINGLE SIDE OF THE FLAT PLATE.



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

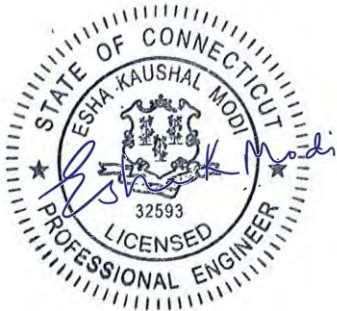
THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

| REV. | DESCRIPTION | BY | DATE |
|------|-------------|-----|----------|
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

ATC SITE NUMBER:
302506

ATC SITE NAME:
WINCHESTER CT 3
CONNECTICUT

SITE ADDRESS:
15 OAKDALE AVENUE
WINSTED, CT 06098

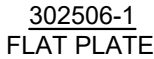


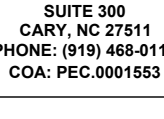

Digitally Signed: 2024-09-06

| | |
|--------------|----------------|
| DRAWN BY: | CWB |
| APPROVED BY: | RDB |
| DATE DRAWN: | 08/30/24 |
| ATC JOB NO: | 14867785_C6_05 |

FLAT PLATE STEP BOLT
BRACKET FABRICATION &
INSTALLATION DETAILS

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| S-504 | 0 |



| | | | |
|---|-------------|----------------|----------|
|  AMERICAN TOWER® A.T. ENGINEERING SERVICES, PLLC 1 FENTON MAIN STREET SUITE 300 CARY, NC 27511 PHONE: (919) 468-0112 COA: PEC.0001553 | | | |
| THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER. | | | |
| REV. | DESCRIPTION | BY | DATE |
| 0 | FIRST ISSUE | CWB | 08/30/24 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| ATC SITE NUMBER: 302506 ATC SITE NAME: WINCHESTER CT 3 CONNECTICUT SITE ADDRESS: 15 OAKDALE AVENUE WINSTED, CT 06098 | | | |
|  Digitally Signed: 2024-09-06 | | | |
| DRAWN BY: | | CWB | |
| APPROVED BY: | | RDB | |
| DATE DRAWN: | | 08/30/24 | |
| ATC JOB NO: | | 14867785_C6_05 | |
| FLAT PLATE FABRICATION DETAILS | | | |
| SHEET NUMBER: | | REVISION: | |
| Z-501 | | 0 | |



Colliers Engineering & Design
2000 Midlantic Drive Suite 100
Mt. Laurel, NJ 08054
(856)797-0412
peter.albano@collierseng.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10237228
Colliers Engineering & Design Project #: 21777477 (Rev. 1)

June 7, 2024

Site Information

Site ID: 5000246826-VZW / WINCHESTER E CT
Site Name: WINCHESTER E CT
Carrier Name: Verizon Wireless
Address: 15 Oakdale Ave
Winchester, Connecticut 06098
Litchfield County
Latitude: 41.921597°
Longitude: -73.049411°

Structure Information

Tower Type: Monopole
Mount Type: 13.33-Ft Platform

FUZE ID # 16272064

Analysis Results

Platform: 54.5% **Pass w/ Modifications***

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

***Contractor PMI Requirements:

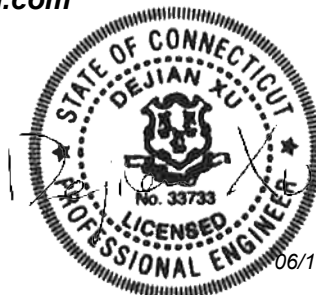
Included at the end of this MA report

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

For additional questions and support, please reach out to:

pmisupport@colliersengineering.com

Report Prepared By: Gianna Argentina



06/10/2024

Executive Summary:

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

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

Sources of Information:

| Document Type | Remarks |
|-----------------------------------|--|
| Radio Frequency Data Sheet (RFDS) | Verizon RFDS Site ID: 325163, dated May 1, 2024 |
| Mount Mapping Report | RKS Design & Engineering, LLC., Site ID: ATC: CT 302506, VZW: 467698, dated April 19, 2021 |
| Previous Mount Analysis | Colliers Engineering & Design, Project #: 21777477 (Rev 1) dated May 17, 2024 |
| Mount Modification Drawings | Colliers Engineering & Design, Project #: 21777477 (Rev 1) dated June 7, 2024 |

Analysis Criteria:

| | |
|-------------------------|---|
| Codes and Standards: | ANSI/TIA-222-H 2022 Connecticut State Building Code, 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 : 0.962 |
| Seismic Parameters: | S_s : 0.167 g S_1 : 0.054 g |
| Maintenance Parameters: | Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs. |
| Analysis Software: | RISA-3D (V17) |

Final Loading Configuration:

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

| Mount Elevation (ft) | Equipment Elevation (ft) | Quantity | Manufacturer | Model | Status |
|----------------------|--------------------------|----------|--------------|------------------|----------|
| 125.00 | 125.00 | 3 | Samsung | MT6413-77A | Added |
| | | 3 | Commscope | CBC78T-DS-43-2X | |
| | | 3 | Samsung | RF4439d-25A | |
| | | 3 | Samsung | RF4461d-13A | |
| | | 6 | Commscope | JAHH-65B-R3B | Retained |
| | | 2 | Antel | LPA-80063/6CF | |
| | | 4 | Antel | LPA-80080/6CF | |
| | | 1 | Raycap | RHSDC-6627-PF-48 | |

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).

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

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

Standard Conditions:

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

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

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

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

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

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

Analysis Results:

| Component | Utilization % | Pass/Fail |
|-------------------------|---------------|-----------|
| Face Horizontal | 15.1 % | Pass |
| Platform Crossmember | 16.6 % | Pass |
| Mount Pipe | 32.5 % | Pass |
| Corner Plate | 21.9 % | Pass |
| Grating Support | 14.2 % | Pass |
| Cross Arm Plate | 54.5 % | Pass |
| Standoff Horizontal | 33.6 % | Pass |
| Mod Face Horizontal | 12.8 % | Pass |
| Mod Support Rail Corner | 19.1 % | Pass |
| Mount Connection | 45.0 % | Pass |

| | |
|---|--------------|
| Structure Rating – (Controlling Utilization of all Components) | 54.5% |
|---|--------------|

Mount Connection Envelope Reactions:

| Connection Description | Elev. AGL (Ft) | Node Label | Envelope Wind Reactions | | | | Envelope Wind + Ice Reactions | | | |
|------------------------|----------------|------------|-------------------------|---------------|---------------|----------------|-------------------------------|---------------|---------------|----------------|
| | | | Axial (Lbs) | Lateral (Lbs) | Moment (K-Ft) | Torsion (K-Ft) | Axial (Lbs) | Lateral (Lbs) | Moment (K-Ft) | Torsion (K-Ft) |
| Sector B Standoff | 125 | N140 B | 1412 | 2101 | 3.252 | 1.549 | 2600 | 749 | 5.245 | 0.479 |
| Sector A Standoff | 125 | N141 | 1420 | 2141 | 3.307 | 1.189 | 2361 | 782 | 4.813 | 0.364 |
| Sector C Standoff | 125 | N142 | 1360 | 2037 | 3.088 | 1.453 | 2428 | 714 | 5.083 | 0.387 |

Notes:

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

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

| Ice Thickness (In) | Mount Pipes Excluded | | Mount Pipes Included | |
|--------------------|------------------------|-----------------------|------------------------|-----------------------|
| | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) | Front (EPA)a (Sq. Ft.) | Side (EPA)a (Sq. Ft.) |
| 0 | 20.7 | 20.7 | 33.6 | 33.6 |
| 0.5 | 26.8 | 26.8 | 45.1 | 45.1 |
| 1 | 32.6 | 32.6 | 56.2 | 56.2 |

Notes:

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

Requirements:

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

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

MDG #: 5000246826

SMART Project #: 10237228

Fuze Project ID: 16272064

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

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:

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

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

☐ The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.

OR

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

Antenna & Equipment Placement and Geometry Confirmation:

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

OR

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

Comments:

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

- ☐ Yes ☐ No

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

Issue:

Response:

Special Instruction Confirmation:

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

Comments:

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

- ☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

- ☐ Yes ☐ No

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

- ☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Comments:

| |
|--|
| |
|--|

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

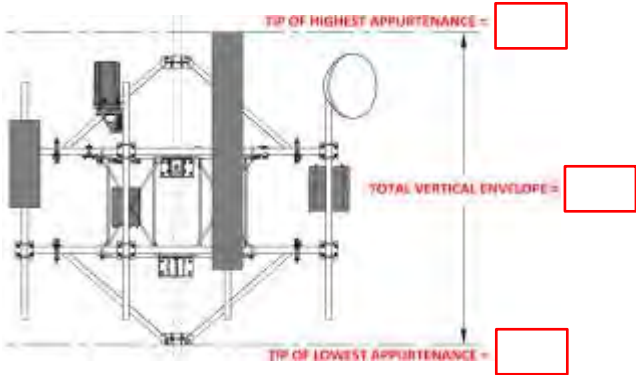


Illustration #1

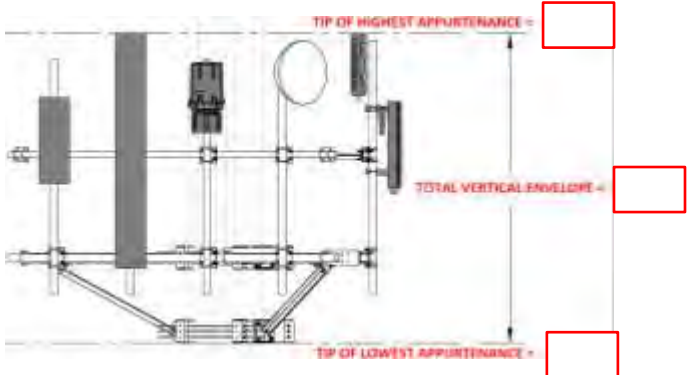


Illustration #2

Certifying Individual:

| | |
|----------------|----------------------|
| Company: | <input type="text"/> |
| Employee Name: | <input type="text"/> |
| Contact Phone: | <input type="text"/> |
| Email: | <input type="text"/> |
| Date: | <input type="text"/> |

Sector: A

6/6/2024

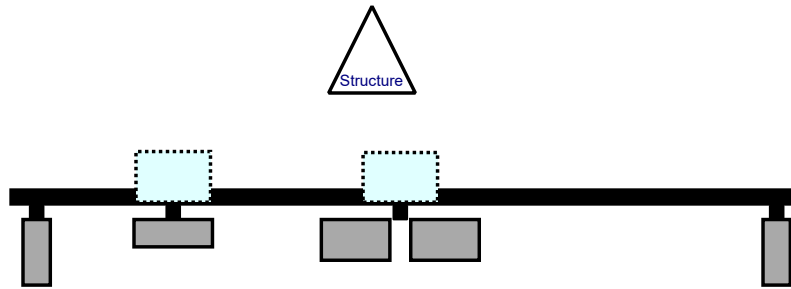
Structure Type: Monopole

10237228

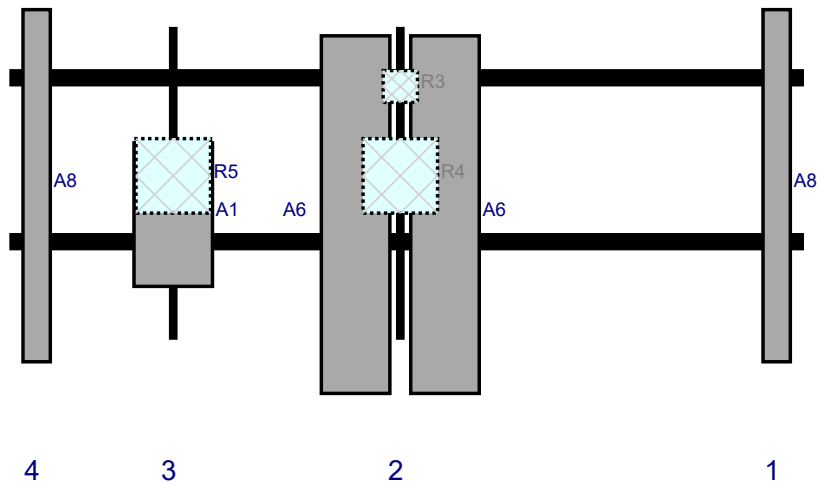
Mount Elev: 125.00

Page: 1

Plan View



Front View - Looking at Structure



| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|------------------|----------------|---------------|------------------|-----------|---------------|------------|------------------|--------------|----------|------------|
| A8 | LPA-80080/6CF | 70.9 | 5.5 | 154.5 | 1 | a | Front | 31.98 | 0 | Retained | |
| A6 | JAHH-65B-R3B | 72 | 13.8 | 78.72 | 2 | a | Front | 37.8 | 9 | Retained | 04/19/2021 |
| A6 | JAHH-65B-R3B | 72 | 13.8 | 78.72 | 2 | b | Front | 37.8 | -9 | Retained | 04/19/2021 |
| R3 | CBC78T-DS-43-2X | 6.4 | 6.9 | 78.72 | 2 | a | Behind | 12 | 0 | Added | |
| R4 | RF4439d-25A | 15 | 15 | 78.72 | 2 | a | Behind | 30 | 0 | Added | |
| A1 | MT6413-77A | 28.9 | 15.8 | 33 | 3 | c | Front | 37.8 | 0 | Added | |
| R5 | RF4461d-13A | 15 | 15 | 33 | 3 | a | Behind | 30 | 0 | Added | |
| A8 | LPA-80080/6CF | 70.9 | 5.5 | 5.5 | 4 | a | Front | 31.98 | 0 | Retained | |
| M103 | RHSDC-6627-PF-48 | 29.5 | 16.5 | | Member | | | | | Retained | 04/19/2021 |

Sector: **B**

6/6/2024

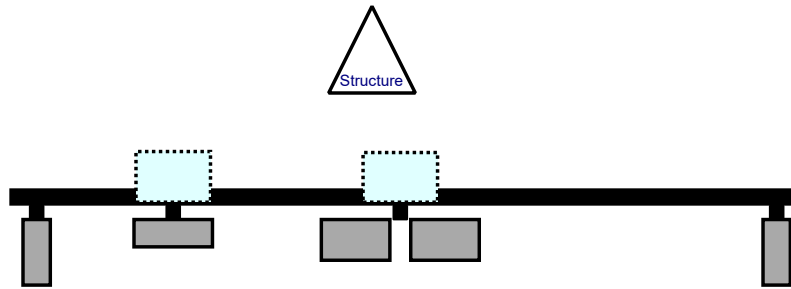
Structure Type: Monopole

10237228

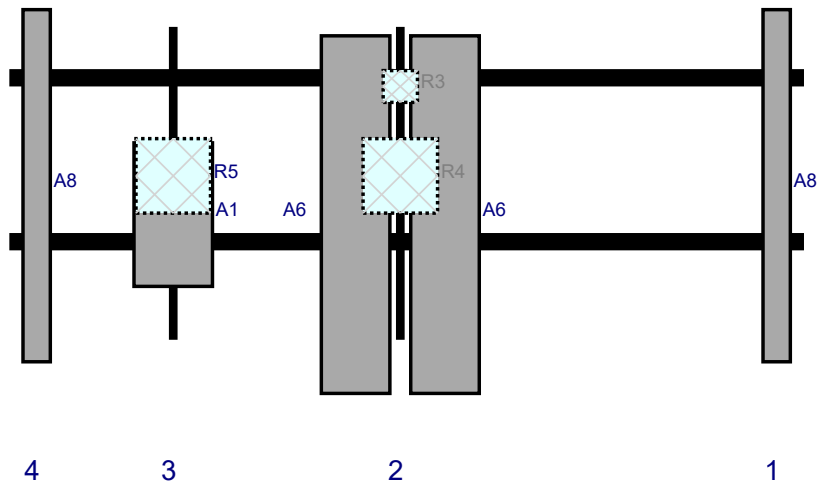
Mount Elev: 125.00

Page: 2

Plan View



Front View - Looking at Structure



| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|-----------------|----------------|---------------|------------------|-----------|---------------|------------|------------------|--------------|----------|------------|
| A8 | LPA-80080/6CF | 70.9 | 5.5 | 154.5 | 1 | a | Front | 31.98 | 0 | Retained | |
| A6 | JAHH-65B-R3B | 72 | 13.8 | 78.72 | 2 | a | Front | 37.8 | 9 | Retained | 04/19/2021 |
| A6 | JAHH-65B-R3B | 72 | 13.8 | 78.72 | 2 | b | Front | 37.8 | -9 | Retained | 04/19/2021 |
| R3 | CBC78T-DS-43-2X | 6.4 | 6.9 | 78.72 | 2 | a | Behind | 12 | 0 | Added | |
| R4 | RF4439d-25A | 15 | 15 | 78.72 | 2 | a | Behind | 30 | 0 | Added | |
| A1 | MT6413-77A | 28.9 | 15.8 | 33 | 3 | c | Front | 37.8 | 0 | Added | |
| R5 | RF4461d-13A | 15 | 15 | 33 | 3 | a | Behind | 30 | 0 | Added | |
| A8 | LPA-80080/6CF | 70.9 | 5.5 | 5.5 | 4 | a | Front | 31.98 | 0 | Retained | |

Sector: C

6/6/2024

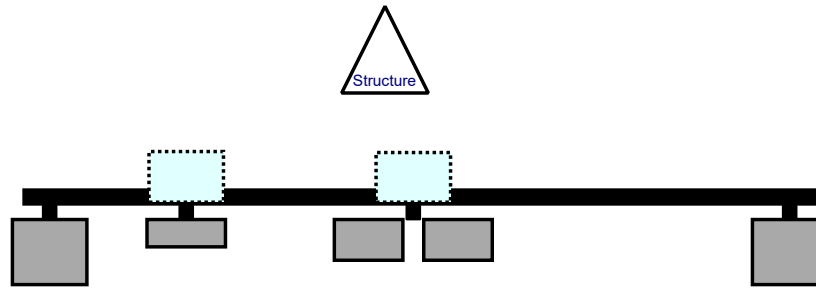
Structure Type: Monopole

10237228

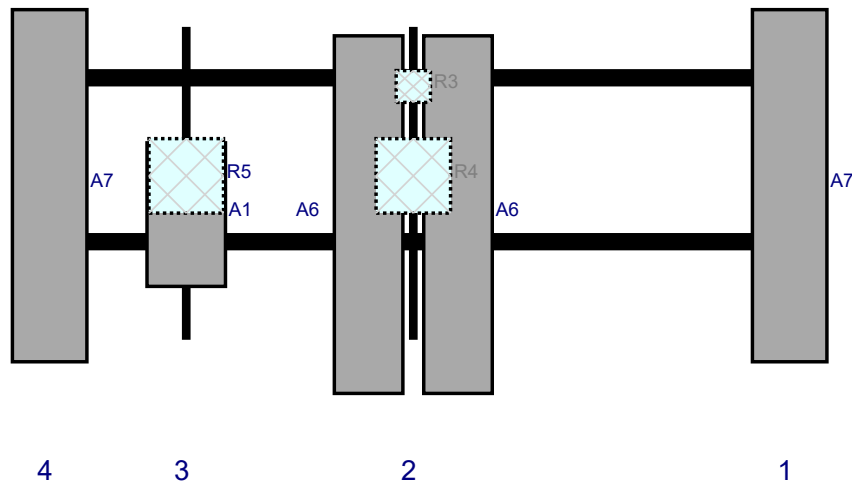
Mount Elev: 125.00

Page: 3

Plan View



Front View - Looking at Structure



| Ref# | Model | Height (in) | Width (in) | H Dist Frm L. | Pipe # | Pipe Pos V | Ant Pos | C. Ant Frm T. | Ant H Off | Status | Validation |
|------|-----------------|----------------|---------------|------------------|-----------|---------------|------------|------------------|--------------|----------|------------|
| A7 | LPA-80063/6CF | 70.9 | 15 | 154.5 | 1 | a | Front | 31.98 | 0 | Retained | |
| A6 | JAHH-65B-R3B | 72 | 13.8 | 78.72 | 2 | a | Front | 37.8 | 9 | Retained | 04/19/2021 |
| A6 | JAHH-65B-R3B | 72 | 13.8 | 78.72 | 2 | b | Front | 37.8 | -9 | Retained | 04/19/2021 |
| R3 | CBC78T-DS-43-2X | 6.4 | 6.9 | 78.72 | 2 | a | Behind | 12 | 0 | Added | |
| R4 | RF4439d-25A | 15 | 15 | 78.72 | 2 | a | Behind | 30 | 0 | Added | |
| A1 | MT6413-77A | 28.9 | 15.8 | 33 | 3 | c | Front | 37.8 | 0 | Added | |
| R5 | RF4461d-13A | 15 | 15 | 33 | 3 | a | Behind | 30 | 0 | Added | |
| A7 | LPA-80063/6CF | 70.9 | 15 | 5.5 | 4 | a | Front | 31.98 | 0 | Retained | |

| BILL OF MATERIALS | | | | | | |
|---|----------------|---------------|-----------------------------|----------------------------|--------------------|---------------|
| | | | | | | |
| SECTION 1 - VZWSMART KITS | | | | | | |
| QUANTITY | MANUFACTURER | PART NUMBER | DESCRIPTION | NOTES | UNIT WEIGHT (LBS.) | WEIGHT (LBS.) |
| 12 | VZWSMART | VZWSMART-MSK1 | CROSSOVER PLATE | | 14 | 168 |
| 3 | | VZWSMART-PLK3 | SUPPORT RAIL CORNER BRACKET | | 30 | 90 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| SECTION 2 - OTHER REQUIRED PARTS | | | | | | |
| QUANTITY | MANUFACTURER | PART NUMBER | DESCRIPTION | NOTES | UNIT WEIGHT (LBS.) | WEIGHT (LBS.) |
| 3 | - | - | 160" LONG, PIPE 2.5 SCH40 | GALVANIZED | 77 | 231 |
| 3 | - | - | 30" LONG, L3X3X1/4 | GALVANIZED | 12 | 36 |
| - | - | - | 1/2" DIA. A36 U-BOLT | GALVANIZED | - | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| SECTION 3 - REQUIRED SAFETY CLIMB PARTS | | | | | | |
| QUANTITY | MANUFACTURER | PART NUMBER | DESCRIPTION | NOTES | UNIT WEIGHT (LBS.) | WEIGHT (LBS.) |
| 1 | PERFECT VISON | H42-0501-06 | STANDOFF CLAMP BRACKET | OR EOR APPROVED EQUIVALENT | - | - |
| 1 | PERFECT VISION | PV-CMX-CG-BO | WIRE ROPE GUIDE | OR EOR APPROVED EQUIVALENT | - | - |
| TOTAL: | | | | | | 525 |

NOTES:

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

VZWSMART KITS - APPROVED VENDORS

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

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

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



Engineering & Design

www.colliersengineering.com

Copyright © 2024, Colliers Engineering & Design All Rights Reserved. This drawing and all the information contained herein is authorized for use only by the party for whom the services were contracted or to whom it is certified. This drawing may not be copied, reused, disclosed, distributed or relied upon for any other purpose without the express written consent of Colliers Engineering & Design.

Doing Business as 





Know what's below.
Call before you dig.

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE

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

SCALE: AS SHOWN

JOB NUMBER: 21777477

| | | | | | |
|-----|----------|-------------------------|----------|------------|---|
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| 1 | 6/7/2024 | ISSUED FOR CONSTRUCTION | GA | DX | |
| 0 | 7/2/2021 | ISSUED FOR CONSTRUCTION | MSG | TK | |
| REV | DATE | DESCRIPTION | DRAWN BY | CHECKED BY | |

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

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

SITE NAME:

WINCHESTER E CT
5000246826

15 OAKDALE AVE
WINCHESTER, CT 06098
LITCHFIELD COUNTY



Engineering & Design

MT. LAUREL
2000 Midlantic Drive,
Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER:
SBOM-1

GENERAL NOTES

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

STRUCTURAL STEEL

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

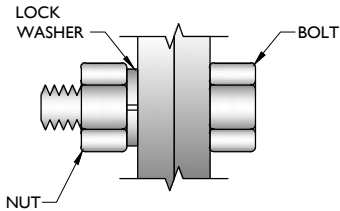
| | |
|--------------------------------|--------------------------|
| CHANNELS, ANGLES, PLATES, ETC. | ASTM A36 (GR 36) |
| STEEL PIPE | ASTM A53 (GR 35) |
| BOLTS | ASTM A325 |
| NUTS | ASTM A563 |
| LOCK WASHERS | LOCKING STRUCTURAL GRADE |
- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED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

BOLT SCHEDULE (IN.)

| BOLT DIAMETER | STANDARD HOLE | SHORT SLOT | MIN. EDGE DISTANCE | SPACING |
|---------------|---------------|-----------------|--------------------|---------|
| 1/2 | 9/16 | 9/16 x 1 1/16 | 7/8 | 1 1/2 |
| 5/8 | 1 1/16 | 1 1/16 x 7/8 | 1 1/8 | 1 7/8 |
| 3/4 | 1 3/16 | 1 3/16 x 1 | 1 1/4 | 2 1/4 |
| 7/8 | 1 5/16 | 1 5/16 x 1 1/8 | 1 1/2 | 2 5/8 |
| 1 | 1 7/16 | 1 7/16 x 1 5/16 | 1 3/4 | 3 |

WORKABLE GAGES (IN.)

| LEG | GAGE |
|-------|-------|
| 4 | 2 1/2 |
| 3 1/2 | 2 |
| 3 | 1 3/4 |
| 2 1/2 | 1 3/8 |
| 2 | 1 1/8 |

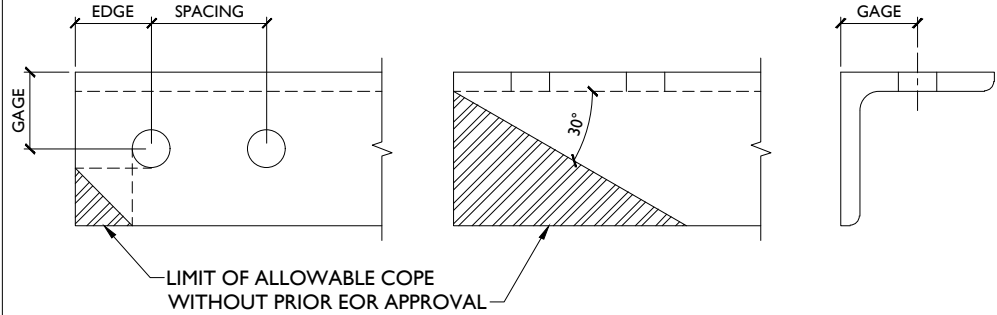


TYP. BOLT ASSEMBLY

NOTES:

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

ALLOWABLE COPING

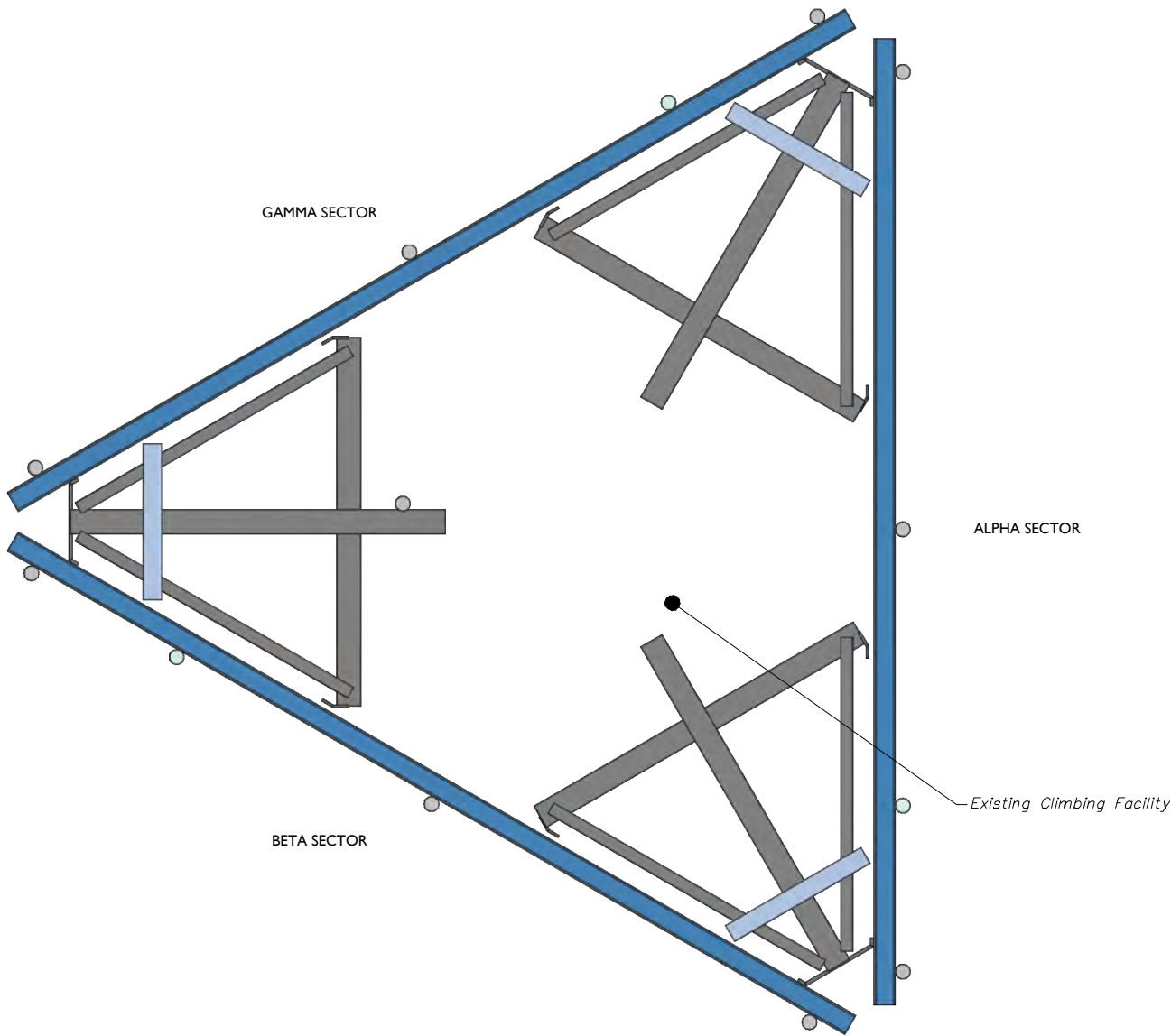


| | | | | |
|-----|----------|-------------------------|----------|------------|
| 1 | 6/7/2024 | ISSUED FOR CONSTRUCTION | GA | DX |
| 0 | 7/2/2021 | ISSUED FOR CONSTRUCTION | MSG | TK |
| REV | DATE | DESCRIPTION | DRAWN BY | CHECKED BY |

SITE NAME:

WINCHESTER E CT
5000246826

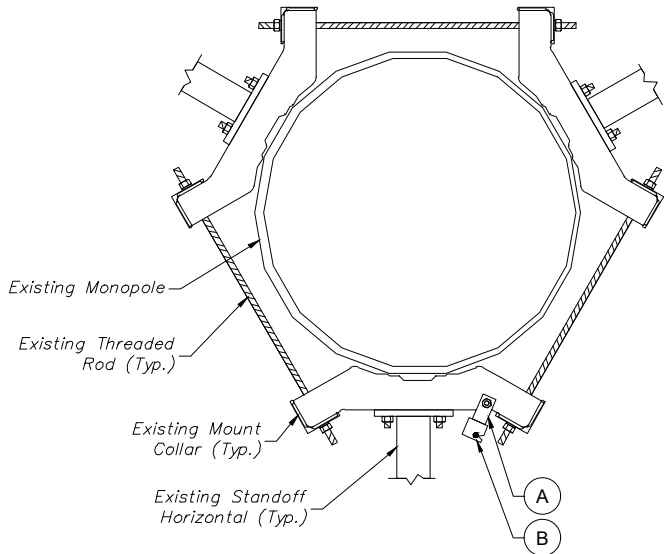
15 OAKDALE AVE
WINCHESTER, CT 06098
LITCHFIELD COUNTY



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

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING ON 4/19/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (125'-00") ARE IN GOOD CONDITION. COLLIERS ENGINEERING & DESIGN DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



| ITEM # | QTY | PART NUMBER | DESCRIPTIONS |
|--------|-----|--------------|--|
| A | 1 | H42-0501-06 | STANDOFF CLAMP BRACKET (PERFECT VISION OR EOR APPROVED EQ.) |
| B | 1 | PV-CMX-CG-BO | WIRE ROPE GUIDE (PERFECT VISION OR EOR APPROVED EQ.) |

2 PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW
SCALE : N.T.S.
NOTE: CONTRACTOR SHALL ENSURE THAT WIRE ROPE GUIDE DOES NOT PUSH THE WIRE ROPE OUTSIDE OF THE VERTICAL PLANE OF THE SAFETY CLIMB. CONTRACT EOR WITH PHOTOS OF SAFETY CLIMB AND COLLAR FOR FURTHER DIRECTION IF NEEDED.



CLIMBING FACILITY PHOTO



Know what's below.
Call before you dig.

PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

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

SCALE : AS SHOWN JOB NUMBER: 21777477

| REV | DATE | DESCRIPTION | DRAWN BY | CHECKED BY |
|-----|----------|-------------------------|----------|------------|
| 1 | 6/7/2024 | ISSUED FOR CONSTRUCTION | GA | DX |
| 0 | 7/2/2021 | ISSUED FOR CONSTRUCTION | MSG | TK |

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

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

SITE NAME:

WINCHESTER E CT
5000246826
15 OAKDALE AVE
WINCHESTER, CT 06098
LITCHFIELD COUNTY



Engineering & Design

MT. LAUREL
2000 Midatlantic Drive,
Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
CLIMBING FACILITY DETAIL

SHEET NUMBER:
SCF-I

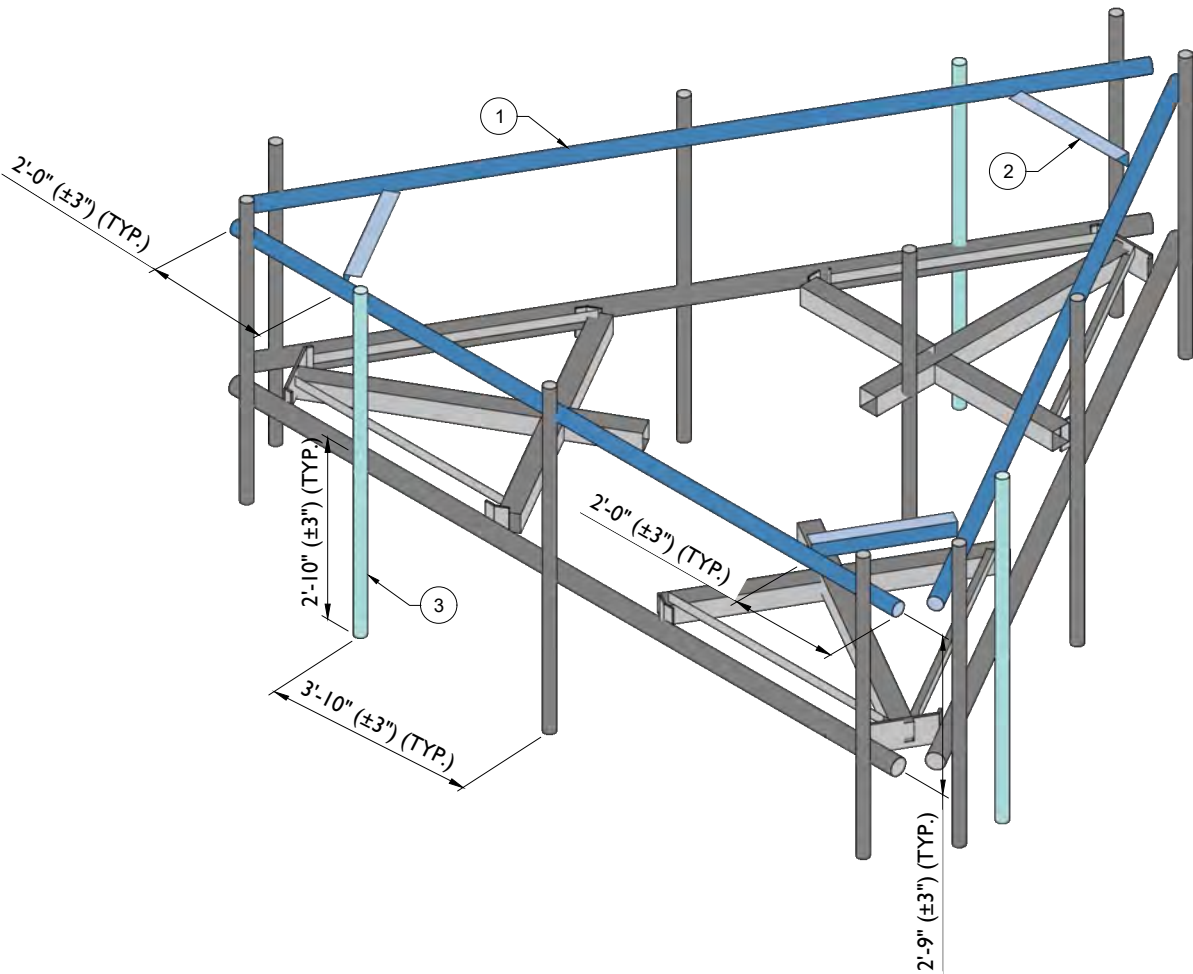
LEGEND:

- PROPOSED
- RELOCATED
- EXISTING

TOTAL VERTICAL ENVELOPE:

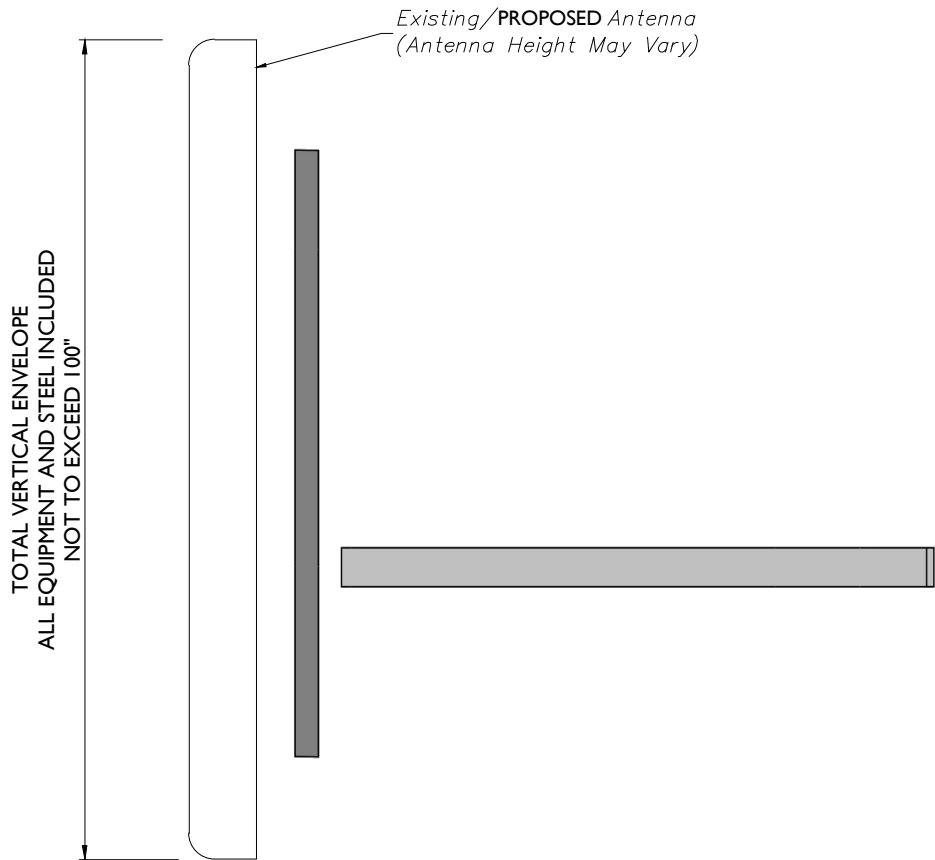
CONTRACTOR SHALL VERIFY AND CONFIRM IN FIELD THAT VERIZON'S OVERALL TIP TO TIP VERTICAL SPACE CONFIGURATION (EQUIPMENT AND STEEL COMBINED) DOES NOT EXCEED THE VERTICAL ENVELOPE LISTED IN THESE DRAWINGS. IF THE SITE'S EXISTING OR PROPOSED CONFIGURATION EXCEEDS THE ALLOWED VERTICAL ENVELOPE LISTED IN THESE DRAWINGS, CONTRACTOR SHALL CONTACT EOR IMMEDIATELY FOR A SOLUTION ON HOW TO CORRECT THE ISSUE PRIOR TO LEAVING THE SITE.

| MOUNT MODIFICATION SCHEDULE | | | | |
|---|-----------|----------|------------------------------------|---|
| NO. | ELEVATION | QUANTITY | DESCRIPTION | NOTES |
| 1 | | 3 | PROPOSED 160" LONG, PIPE 2.5 SCH40 | RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1). |
| 2 | | 3 | PROPOSED 30" LONG, L3X3X1/4 | CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONTRACTOR SHALL CONNECT PROPOSED ANGLES TO SUPPORT RAIL CORNER BRACKET (PART #: VZWSMART-PLK3) USING THE PROVIDED (8) 5/8" DIA. BOLTS, (4) BOLTS PER CONNECTION. |
| 3 | | 3 | RELOCATED MOUNT PIPE | SHIFT MOUNT PIPE HORIZONTALLY ALONG FACE HORIZONTAL. RECONNECT TO EXISTING FACE HORIZONTAL WITH EXISTING CROSSOVER PLATES AND NEW 1/2" DIA. U-BOLTS. |
| GENERAL NOTES: | | | | |
| A. CONTRACTOR SHALL VERIFY THAT NEW & EXISTING STEEL IS FREE OF CORROSION. VISIBLE MINOR CORROSION SHALL BE WIRE BRUSHED CLEAN AND TREATED WITH COLD GALVANIZATION. REPORT ANY SIGNIFICANT CORROSION TO EOR | | | | |
| B. THREADED ROD FROM PROPOSED KITS SHALL BE TRIMMED TO EXTEND NO MORE THAN 3" BEYOND THE LOCK NUT. TREAT ALL CUT ENDS WITH (2) COATS OF COLD GALVANIZATION (ZINC KOTE, OR EOR APPROVED EQUAL). | | | | |
| C. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O. | | | | |



PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

SCALE : N.T.S.

| REV | DATE | DESCRIPTION | DRAWN BY | CHECKED BY |
|-----|----------|-------------------------|----------|------------|
| 1 | 6/7/2024 | ISSUED FOR CONSTRUCTION | GA | DX |
| 0 | 7/2/2021 | ISSUED FOR CONSTRUCTION | MSG | TK |

SITE NAME:

WINCHESTER E CT
5000246826

15 OAKDALE AVE
WINCHESTER, CT 06098
LITCHFIELD COUNTY



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

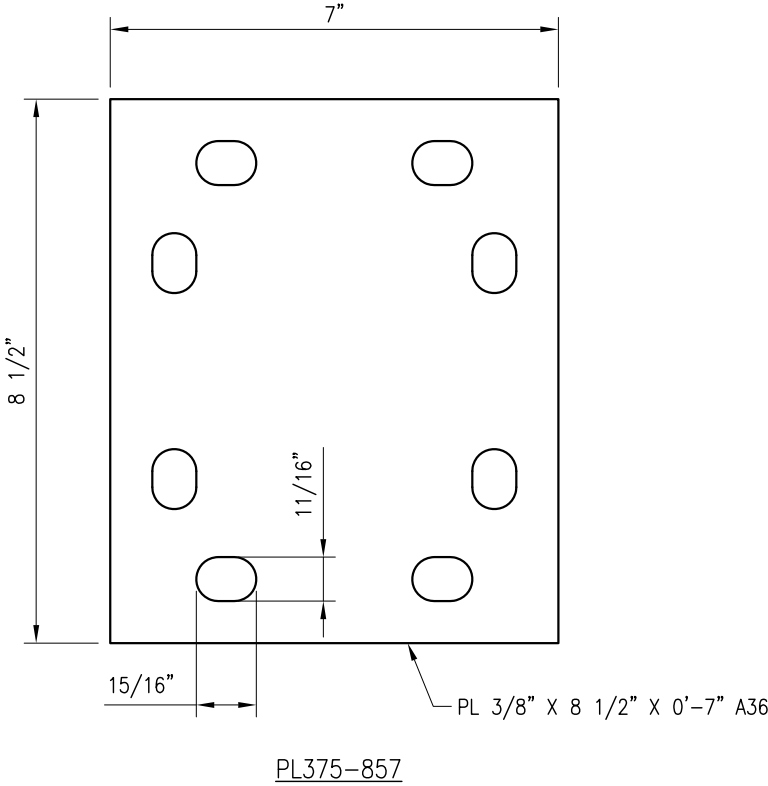
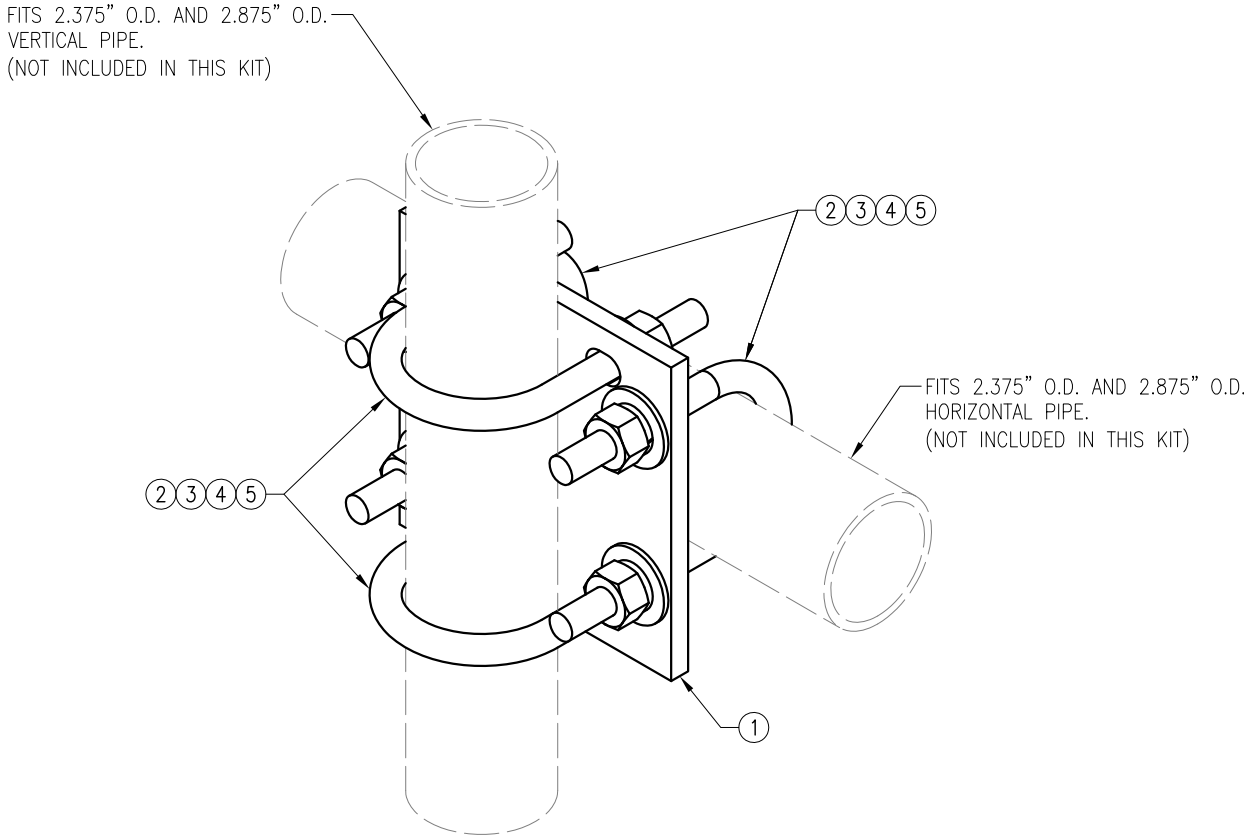
| REV | DATE | DESCRIPTION | DRAWN BY | CHECKED BY |
|-----|----------|-------------------------|----------|------------|
| 1 | 6/7/2024 | ISSUED FOR CONSTRUCTION | GA | DX |
| 0 | 7/2/2021 | ISSUED FOR CONSTRUCTION | MSG | TK |



FOR REFERENCE
ONLY

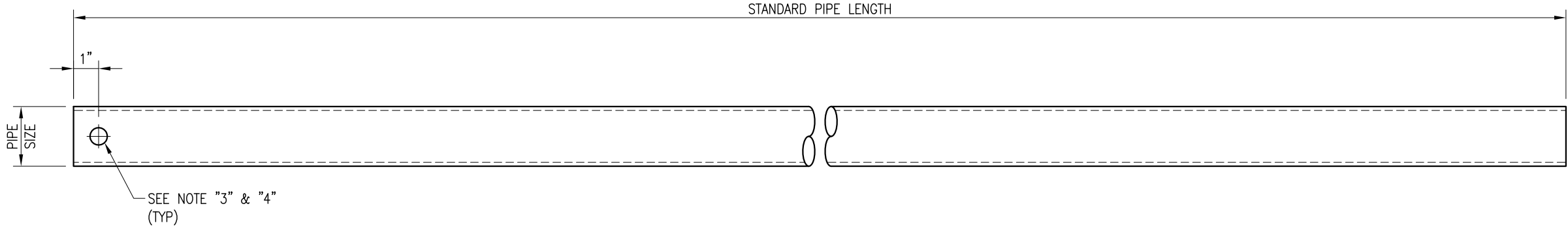
| | | | |
|---------------|-------------|-----------------|----------|
| DRAWN BY: H.R | | CHECKED BY: HMA | |
| REV. | DESCRIPTION | BY | DATE |
| 0 | FIRST ISSUE | H.R | 05/08/20 |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

| | |
|----------------------------------|--------|
| SHEET TITLE: | |
| VZWSMART-MSK1 CROSSOVER PLATE | |
| SHEET NUMBER: | REV #: |
| VZWSMART-MSK1 | 0 |



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

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



| VZWSMART Standard Pipe | | |
|------------------------|---|--------|
| VZWSMART Number | Size | Length |
| P40-238X048 | PIPE 2 SCH40 (2.375" OD x 0.154" THK) | 48" |
| P40-238X072 | PIPE 2 SCH40 (2.375" OD x 0.154" THK) | 72" |
| P40-238X096 | PIPE 2 SCH40 (2.375" OD x 0.154" THK) | 96" |
| P40-238X120 | PIPE 2 SCH40 (2.375" OD x 0.154" THK) | 120" |
| P40-238X126 | PIPE 2 SCH40 (2.375" OD x 0.154" THK) | 126" |
| P40-238X150 | PIPE 2 SCH40 (2.375" OD x 0.154" THK) | 150" |
| P40-238X174 | PIPE 2 SCH40 (2.375" OD x 0.154" THK) | 174" |
| P40-278X048 | PIPE 2.5 SCH40 (2.875" OD x 0.203" THK) | 48" |
| P40-278X072 | PIPE 2.5 SCH40 (2.875" OD x 0.203" THK) | 72" |
| P40-278X096 | PIPE 2.5 SCH40 (2.875" OD x 0.203" THK) | 96" |
| P40-278X120 | PIPE 2.5 SCH40 (2.875" OD x 0.203" THK) | 120" |
| P40-278X126 | PIPE 2.5 SCH40 (2.875" OD x 0.203" THK) | 126" |
| P40-278X150 | PIPE 2.5 SCH40 (2.875" OD x 0.203" THK) | 150" |
| P40-278X174 | PIPE 2.5 SCH40 (2.875" OD x 0.203" THK) | 174" |
| P40-312X048 | PIPE 3 SCH40 (3.5" OD x 0.216" THK) | 48" |
| P40-312X072 | PIPE 3 SCH40 (3.5" OD x 0.216" THK) | 72" |
| P40-312X126 | PIPE 3 SCH40 (3.5" OD x 0.216" THK) | 126" |
| P40-312X150 | PIPE 3 SCH40 (3.5" OD x 0.216" THK) | 150" |
| P40-312X174 | PIPE 3 SCH40 (3.5" OD x 0.216" THK) | 174" |

NOTE:
APPROVED SMART KIT VENDORS ARE ALLOWED TO SUBSTITUTE AT THEIR DISCRETION
PIPES LISTED ON THIS PAGE FOR CUSTOM LENGTH COMPONENTS OF MATCHING SIZE.
SUBSTITUTIONS SHALL MEET THE ORIGINAL STRUCTURAL INTENT.

- NOTES:
1. ALL PIPE GRADE A53-B OR BETTER.
 2. HOT-DIPPED GALVANIZED PER ASTM A123.
 3. ALL HOLES ARE 11/16" DIA. U.N.O
 4. HOLES MAY OR MAY NOT BE PRESENT, DEPEND UPON MANUFACTURE DISCRETION.
 5. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINGA OR ZINC COTE PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

VzW
SMART Tool[©]
Vendor



FOR REFERENCE
ONLY

DRAWN BY: BT CHECKED BY: HMA/KW

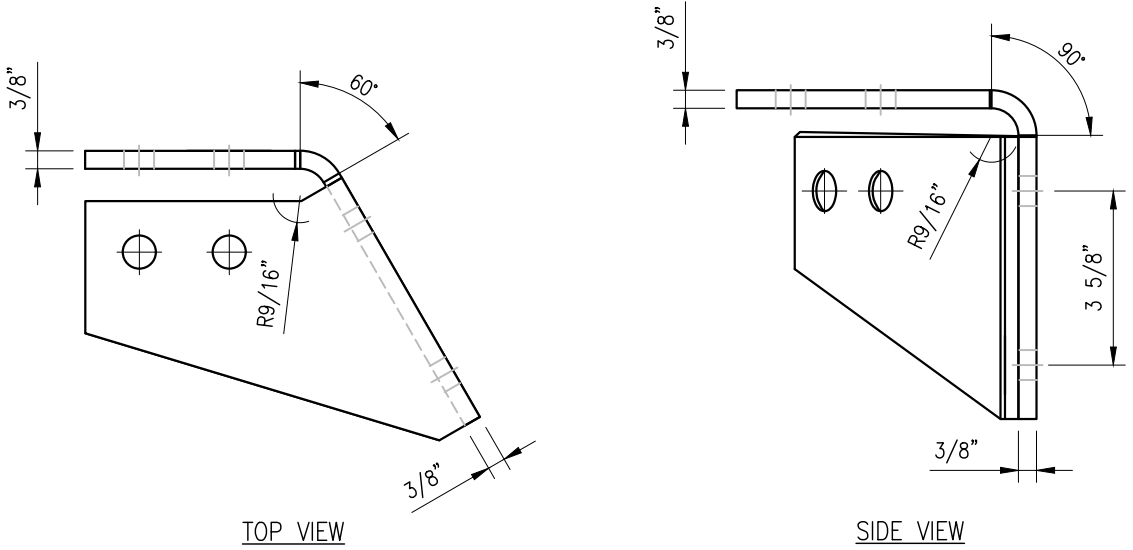
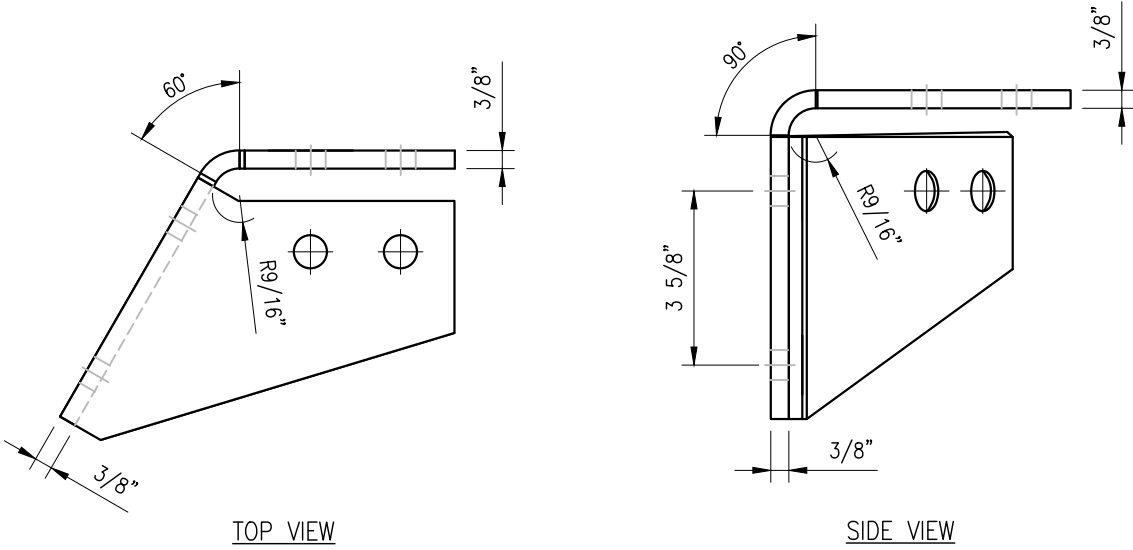
| REV. | DESCRIPTION | BY | DATE |
|------|-------------|----|----------|
| 1 | FIRST ISSUE | BT | 08/04/21 |
| | | | |
| | | | |
| | | | |
| | | | |

SHEET TITLE:

VZWSMART
STANDARD PIPE

SHEET NUMBER: REV #:

VZWSMART-PIPE 0



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

| VZSMART-PLK3 (SUPPORT RAIL CORNER BRACKET) | | | | | |
|--|------|------------------|--|---------|----|
| ITEM NO. | QTY. | PART NO. | DESCRIPTION | SHEET # | WT |
| 1 | 1 | CBP-L | CORNER BENT PLATE BRACKET | PLK3-F1 | 9 |
| 2 | 1 | CBP-R | CORNER BENT PLATE BRACKET | PLK3-F1 | 9 |
| 3 | 4 | MS02-625-300-500 | RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.) | RBC-1 | 5 |
| 4 | 8 | --- | BOLT 5/8" X 2" A325 | --- | 3 |
| 5 | 16 | FW-625 | 5/8" HDG USS FLAT WASHER | --- | 1 |
| 6 | 16 | LW-625 | 5/8" HDG LOCK WASHER | --- | 0 |
| 7 | 16 | NUT-625 | 5/8" HDG HEX NUT | --- | 2 |
| GALVANIZED WT | | | | | 30 |

FOR REFERENCE
ONLY

| | | | |
|--|-------------|-----------------|----------|
| DRAWN BY: H.R | | CHECKED BY: HMA | |
| REV. | DESCRIPTION | BY | DATE |
| 1 | FIRST ISSUE | H.R | 05/08/20 |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| SHEET TITLE: | | | |
| VZSMART-PLK3 SUPPORT RAIL CORNER BRACKET | | | |
| SHEET NUMBER: | | REV #: | |
| VZSMART-PLK3 | | 0 | |





Antenna Mount Mapping Form (PATENT PENDING)

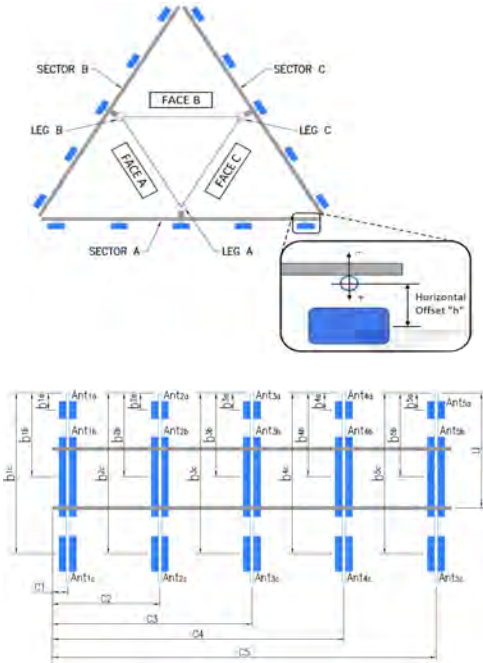
FCC #

UNKNOWN

| | | | |
|----------------------------|--|-------------------------------|------------|
| Tower Owner: | AMERICAN TOWER CORPORATION | Mapping Date: | 04/19/2021 |
| Site Name: | ATC: WINCHESTER CT, VZW: WINCHESTER E CT | Tower Type: | Monopole |
| Site Number or ID: | ATC: CT 302506, VZW:467698 | Tower Height (Ft.): | UNKNOWN |
| Mapping Contractor: | RKS Design & Engineering, LLC | Mount Elevation (Ft.): | 119.1 |

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

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



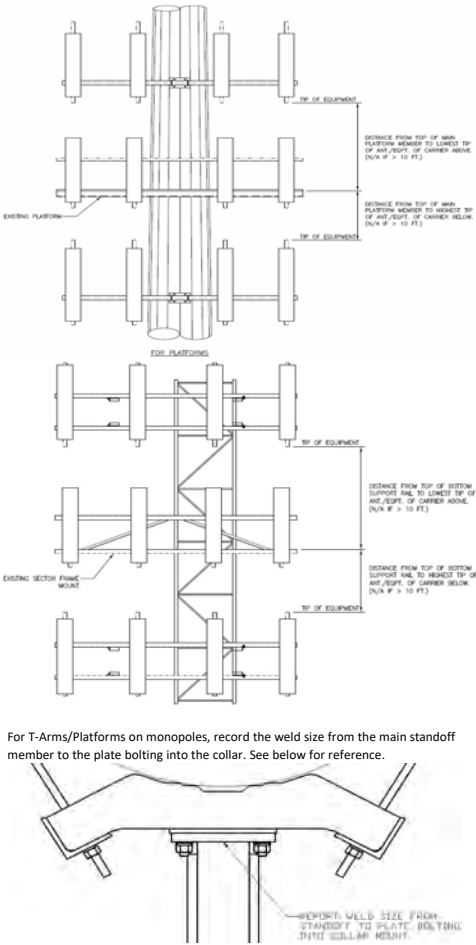
Antenna Layout (Looking Out From Tower)

| Mount Pipe Configuration and Geometries [Unit = Inches] | | | | | | | | |
|---|--------------------------------|---|--------------------------------------|-------------------|--------------------------------|-------------------------------|--------------------------------------|-------|
| Sector / Position | Mount Pipe Size & Length | Vertical Offset Dimension "y" | Horizontal Offset "C1, C2, C3, etc." | Sector / Position | Mount Pipe Size & Length | Vertical Offset Dimension "y" | Horizontal Offset "C1, C2, C3, etc." | |
| A1 | PIPE 2.375"Øx0.15"x63" LONG | 43.25 | 5.50 | C1 | PIPE 2.375"Øx0.15"x63" LONG | 43.25 | 6.00 | |
| A2 | PIPE 2.375"Øx0.15"x72.25" LONG | 40.75 | 81.25 | C2 | PIPE 2.375"Øx0.15"x72.25" LONG | 41.25 | 77.50 | |
| A3 | PIPE 2.375"Øx0.15"x72" LONG | 39.75 | 118.00 | C3 | PIPE 2.375"Øx0.15"x72" LONG | 39.75 | 118.75 | |
| A4 | PIPE 2.375"Øx0.15"x63" LONG | 43.00 | 154.50 | C4 | PIPE 2.375"Øx0.15"x63" LONG | 43.25 | 155.50 | |
| A5 | | | | C5 | | | | |
| A6 | | | | C6 | | | | |
| B1 | PIPE 2.375"Øx0.15"x63" LONG | 43.25 | 6.00 | D1 | | | | |
| B2 | PIPE 2.375"Øx0.15"x72.25" LONG | 40.00 | 78.25 | D2 | | | | |
| B3 | PIPE 2.375"Øx0.15"x72" LONG | 37.75 | 116.50 | D3 | | | | |
| B4 | PIPE 2.375"Øx0.15"x63" LONG | 43.00 | 154.75 | D4 | | | | |
| B5 | | | | D5 | | | | |
| B6 | | | | D6 | | | | |
| Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. : | | | | | | | | |
| Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) : | | | | | | | | |
| Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) : | | | | | | | 5 | |
| Please enter additional infomation or comments below. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Tower Face Width at Mount Elev. (ft.): | | Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): | | | | 28 | | |
| For T-Arms/Platforms on monoples, report the weld size from the main standoff to the plate bolting into the collar mount. | | | | | | | | |
| | | | | | | | | 0.375 |

[illegible]

| Mount Azimuth (Degree) for Each Sector | | | | Tower Leg Azimuth (Degree) for Each Sector | | | | Sector B | | | | | | | | | | |
|---|-----------------|-----|---------------------------------|---|-----|--|--|--------------------|--------------------|-------|-------|-------|--|---------|-------|-------|--------|-----|
| Sector A: | 10.00 | Deg | Leg A: | | Deg | | | Ant _{1a} | B25 RRH4X30 | 12.00 | 7.00 | 21.20 | | 120.871 | 22.00 | -7.00 | | 212 |
| Sector B: | 130.00 | Deg | Leg B: | | Deg | | | Ant _{1b} | LPA-80080-6CF-EDIN | 15.20 | 13.10 | 71.00 | | 120.413 | 27.50 | 15.50 | 130.00 | 212 |
| Sector C: | 250.00 | Deg | Leg C: | | Deg | | | Ant _{1c} | | | | | | | | | | |
| Sector D: | | Deg | Leg D: | | Deg | | | Ant _{2a} | B13 RRH4X30 | 12.00 | 9.00 | 21.60 | | 121.225 | 14.50 | -9.50 | | 215 |
| | | | | | | | | Ant _{2b} | (2)JAHH-65B-R3B | 13.80 | 8.20 | 72.00 | | 120.1 | 28.00 | 13.50 | 130.00 | 215 |
| Climbing Facility Information | | | | | | | | Ant _{2c} | | | | | | | | | | |
| Location: | | Deg | | N/A | | | | Ant _{3a} | B66A RRH4X45 | 11.80 | 7.20 | 25.80 | | 121.621 | 7.50 | -7.00 | | 217 |
| Climbing Facility | Corrosion Type: | | N/A | | | | | Ant _{3b} | | | | | | | | | | |
| | Access: | | Climbing path was unobstructed. | | | | | Ant _{3c} | | | | | | | | | | |
| | Condition: | | Good condition. | | | | | Ant _{4a} | AHCA | 12.50 | 7.50 | 14.00 | | 120.808 | 22.50 | -2.50 | | 217 |
| | | | | | | | | Ant _{4b} | LPA-80063-6CF-EDIN | 15.20 | 13.10 | 71.00 | | 120.85 | 22.00 | | | |
| | | | | | | | | Ant _{4c} | | | | | | | | | | |
| | | | | | | | | Ant _{5a} | | | | | | | | | | |
| | | | | | | | | Ant _{5b} | | | | | | | | | | |
| | | | | | | | | Ant _{5c} | | | | | | | | | | |
| | | | | | | | | Ant on Standoff | | | | | | | | | | |
| | | | | | | | | Ant on Standoff | | | | | | | | | | |
| | | | | | | | | Ant on Tower | | | | | | | | | | |
| | | | | | | | | Ant on Tower | | | | | | | | | | |

Please insert a photo of the mount centerline measurement here.



| Sector C | | | | | | |
|--------------------|--------------------|-------|-------|-------|--|---------|
| Ant _{1a} | B25 RRH4X30 | 12.00 | 7.00 | 21.20 | | 120.871 |
| Ant _{1b} | LPA-80063-6CF-EDIN | 15.20 | 13.10 | 71.00 | | 120.413 |
| Ant _{1c} | | | | | | |
| Ant _{2a} | B13 RRH4X30 | 12.00 | 9.00 | 21.60 | | 121.329 |
| Ant _{2b} | (2)JAHH-65B-R3B | 13.80 | 8.20 | 72.00 | | 120.204 |
| Ant _{2c} | | | | | | |
| Ant _{3a} | B66A RRH4X45 | 11.80 | 7.20 | 25.80 | | 121.788 |
| Ant _{3b} | | | | | | |
| Ant _{3c} | | | | | | |
| Ant _{4a} | AHCA | 12.50 | 7.50 | 14.00 | | 120.829 |
| Ant _{4b} | LPA-80063-6CF-EDIN | 15.20 | 13.10 | 71.00 | | 120.871 |
| Ant _{4c} | | | | | | |
| Ant _{5a} | | | | | | |
| Ant _{5b} | | | | | | |
| Ant _{5c} | | | | | | |
| Ant on Standoff | RHSDC-6627-PF-48 | 16.50 | 12.60 | 29.50 | | 37.00 |
| Ant on Standoff | | | | | | |
| Ant on Tower | | | | | | |
| Ant on Tower | | | | | | |
| Sector D | | | | | | |
| Ant _{1a} | | | | | | |
| Ant _{1b} | | | | | | |
| Ant _{1c} | | | | | | |
| Ant _{2a} | | | | | | |
| Ant _{2b} | | | | | | |
| Ant _{2c} | | | | | | |
| Ant _{3a} | | | | | | |
| Ant _{3b} | | | | | | |
| Ant _{3c} | | | | | | |
| Ant _{4a} | | | | | | |
| Ant _{4b} | | | | | | |
| Ant _{4c} | | | | | | |
| Ant _{5a} | | | | | | |
| Ant _{5b} | | | | | | |
| Ant _{5c} | | | | | | |
| Ant on Standoff | | | | | | |
| Ant on Standoff | | | | | | |
| Ant on Tower | | | | | | |
| Ant on Tower | | | | | | |

| Observed Safety and Structural Issues During the Mount Mapping | | |
|--|--|---------|
| Issue # | Description of Issue | Photo # |
| 1 | TOTAL COAX(7): (6) FH 1-5/8, (1) 2"Ø HYB | 52 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

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

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

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



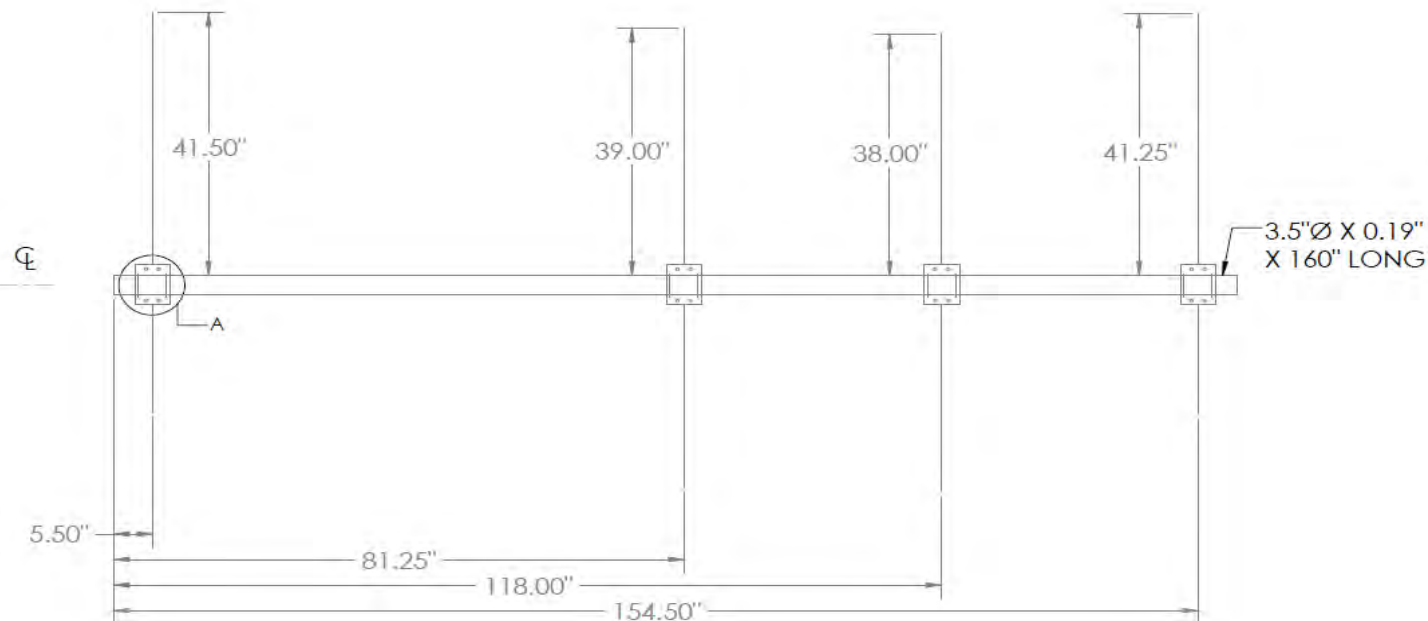
Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

| | | | |
|---------------------|--|------------------------|------------|
| Tower Owner: | AMERICAN TOWER CORPORATION | Mapping Date: | 04/19/2021 |
| Site Name: | ATC: WINCHESTER CT, VZW: WINCHESTER E CT | Tower Type: | Monopole |
| Site Number or ID: | ATC: CT 302506 | Tower Height (Ft.): | UNKNOWN |
| Mapping Contractor: | RKS Design & Engineering, LLC | Mount Elevation (Ft.): | 119.1 |

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

Please Insert Sketches of the Antenna Mount

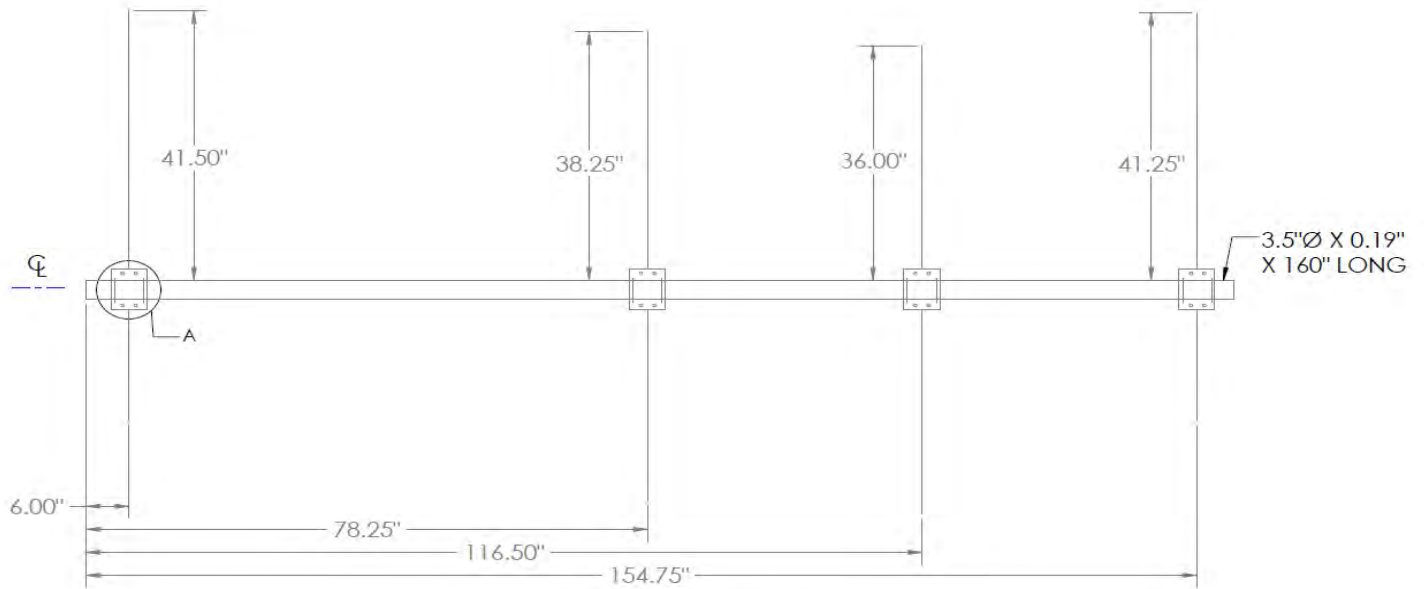


SECTOR A

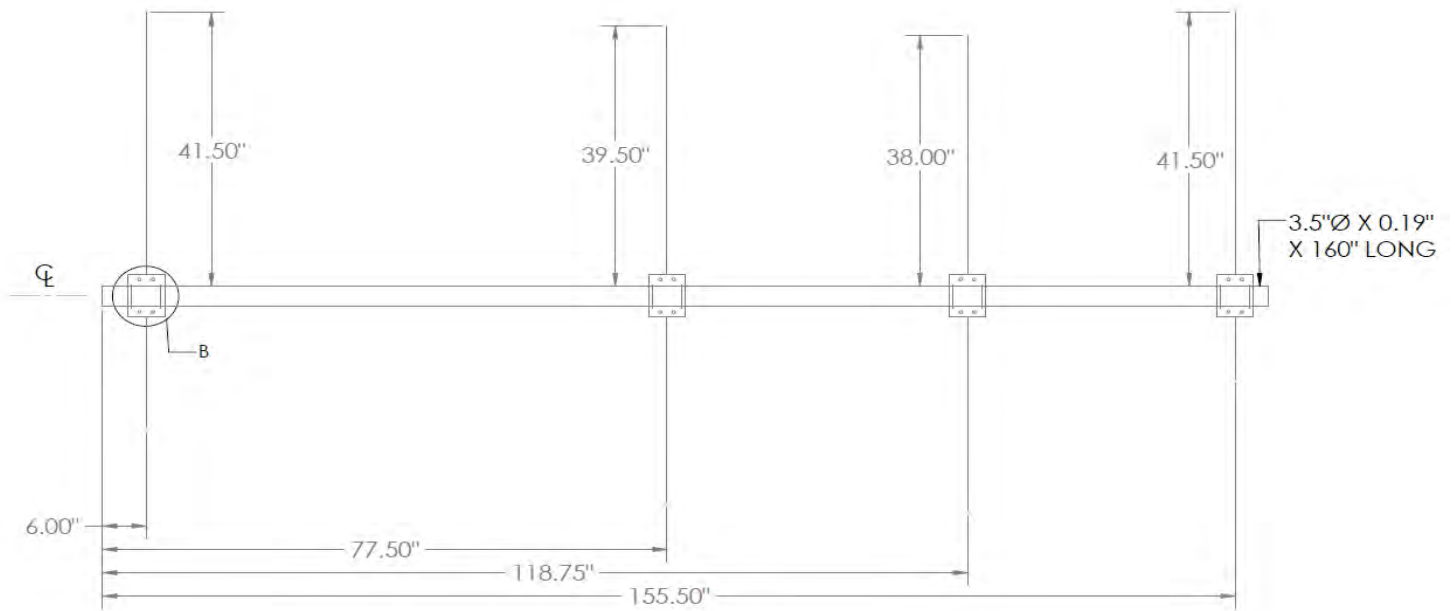
C 6.25" X 2.5" X
0.375" X 8" LONG

0.5" Ø U-BOLT

DETAIL A

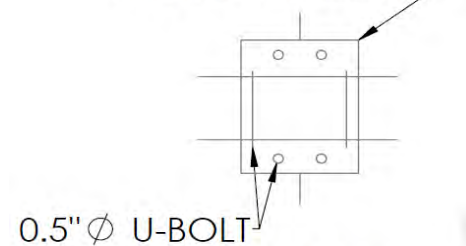


SECTOR B

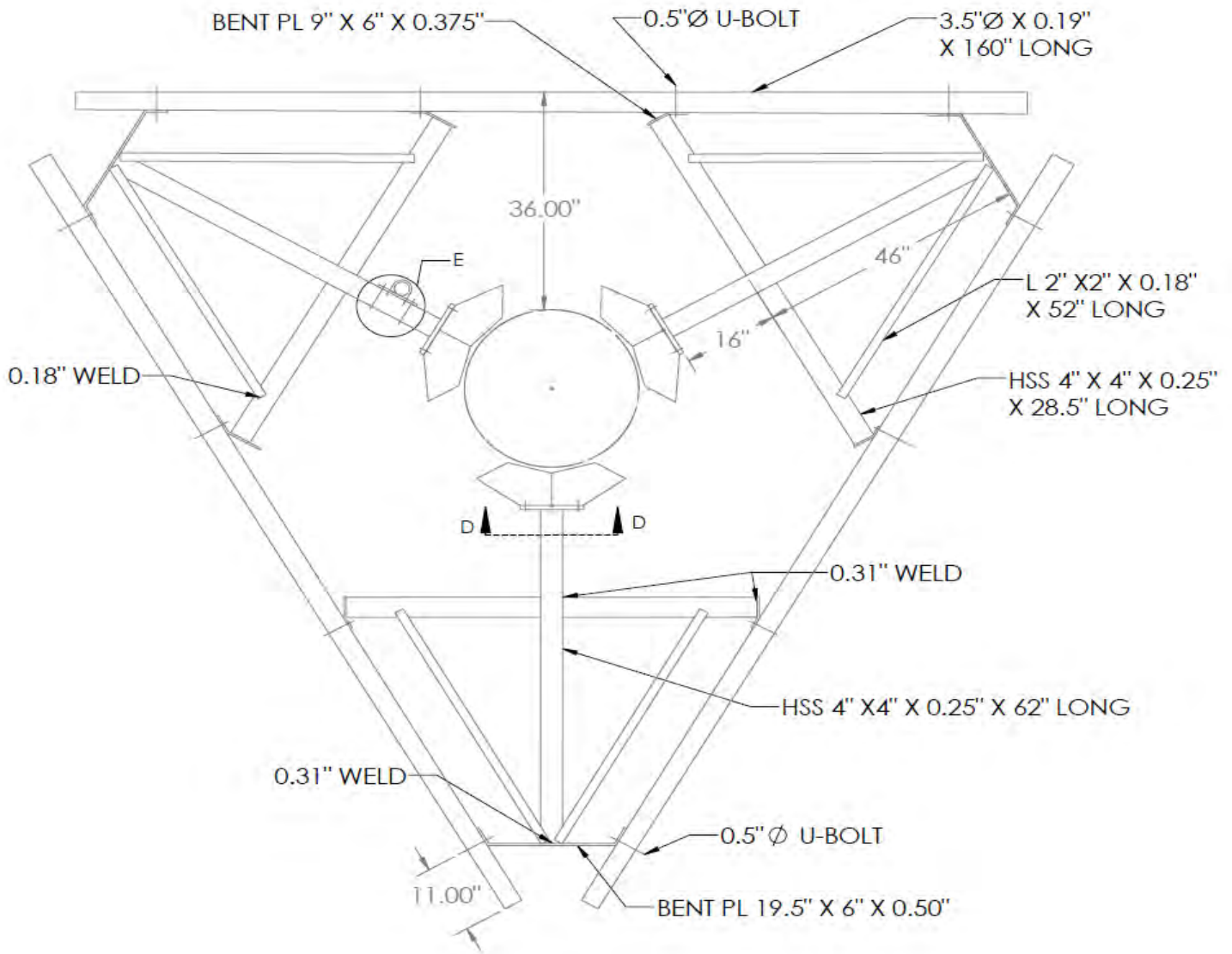


SECTOR C

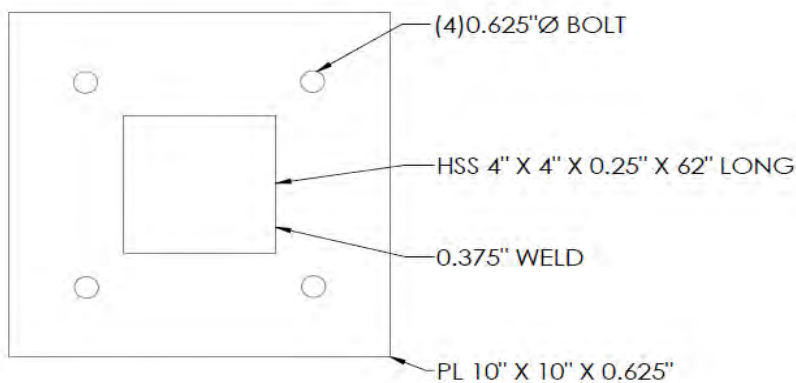
C 6.25" X 2.25"
X 0.375" X 8" LONG



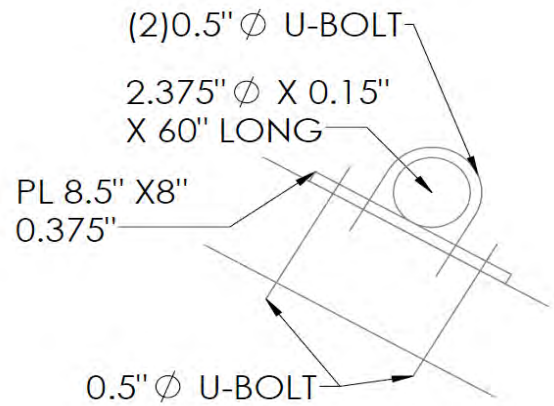
DETAIL B



MOUNT VIEW

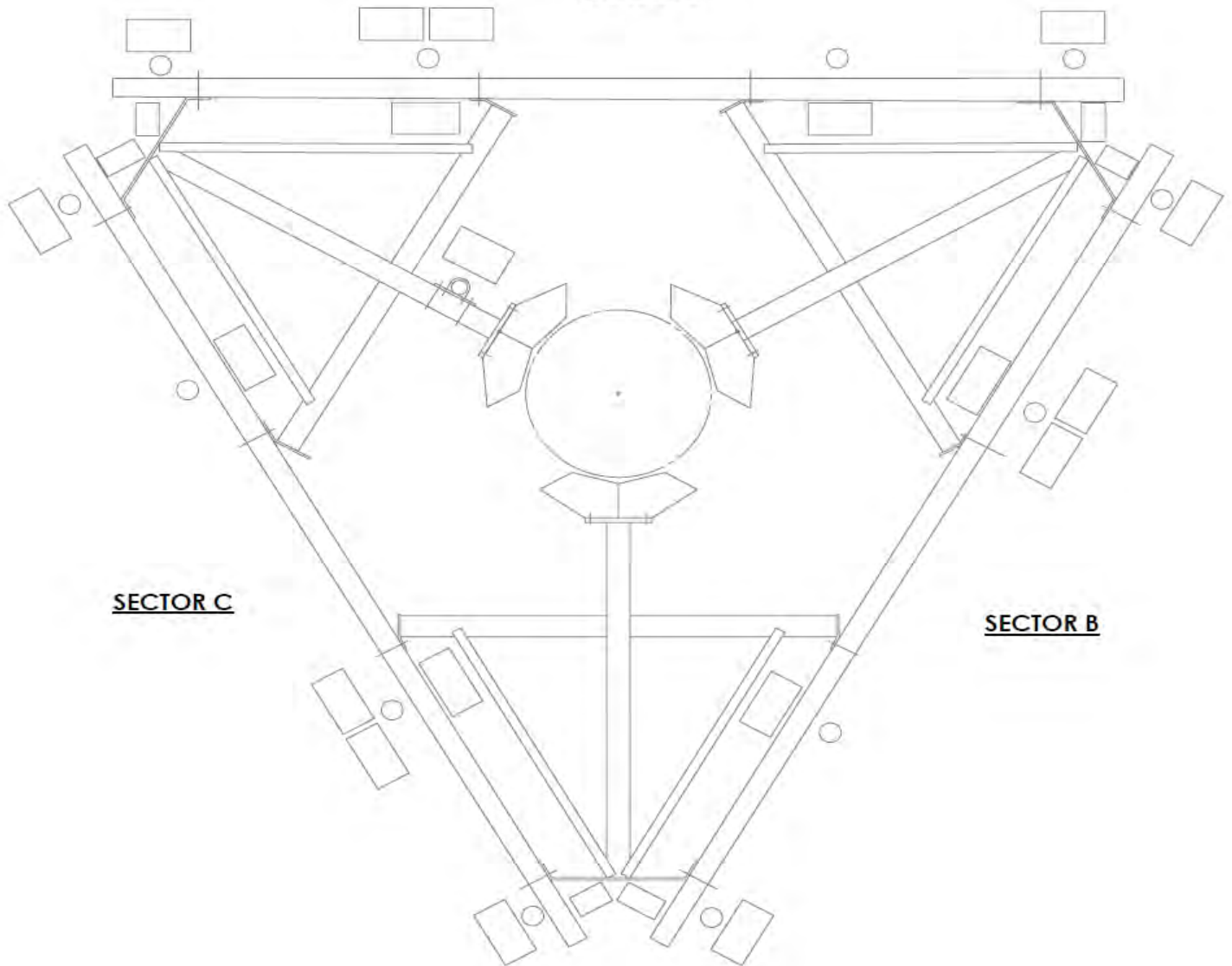


SECTION D-D



DETAIL E

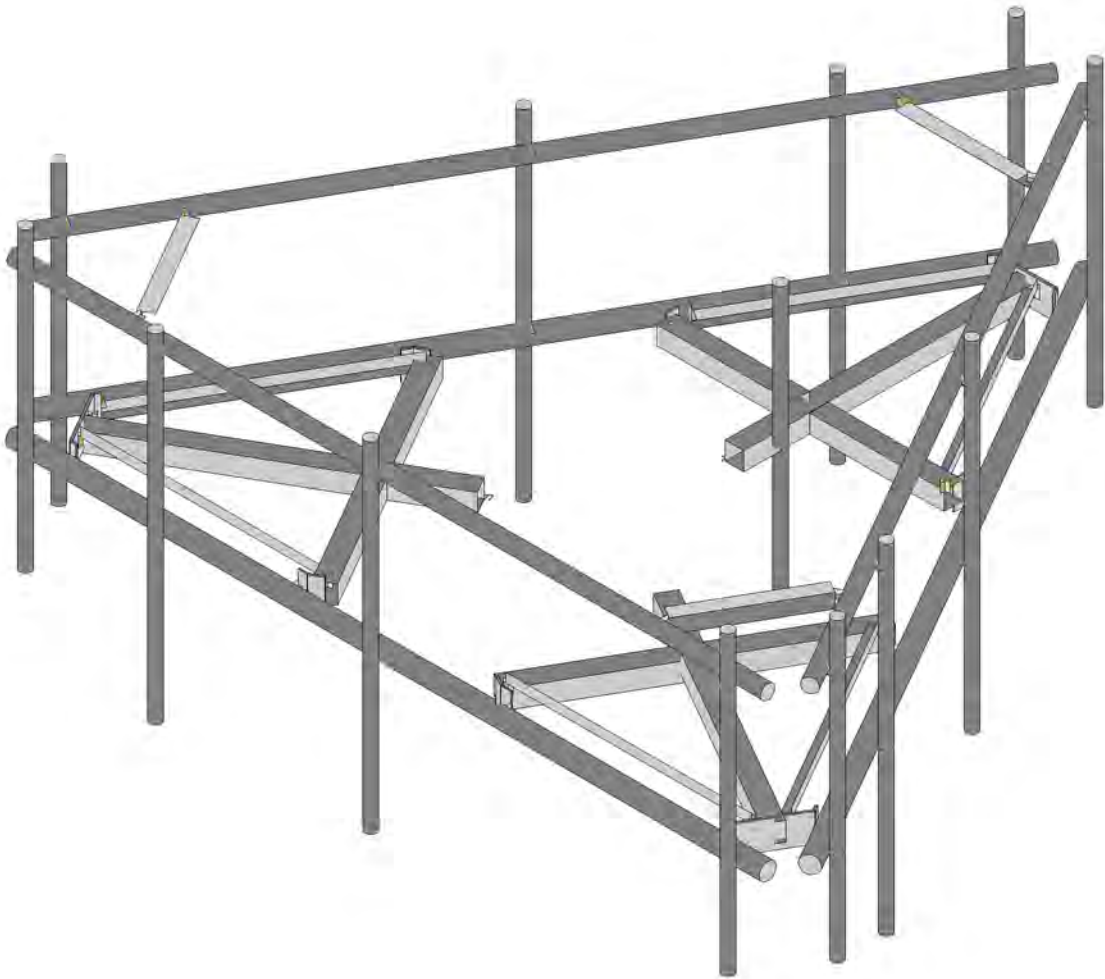
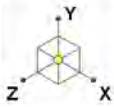
SECTOR A



SECTOR C

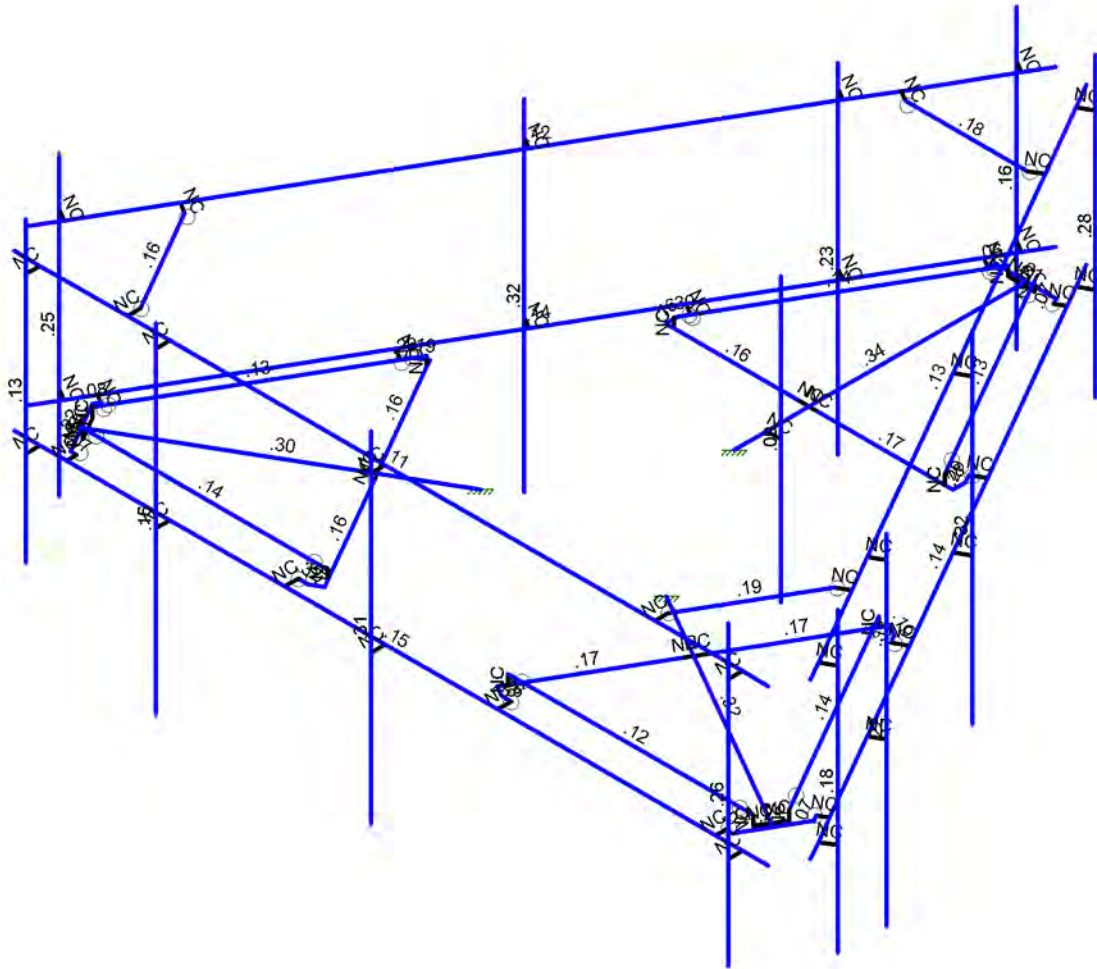
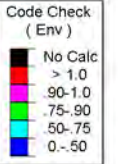
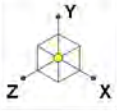
SECTOR B

ANTENNA PLAN VIEW



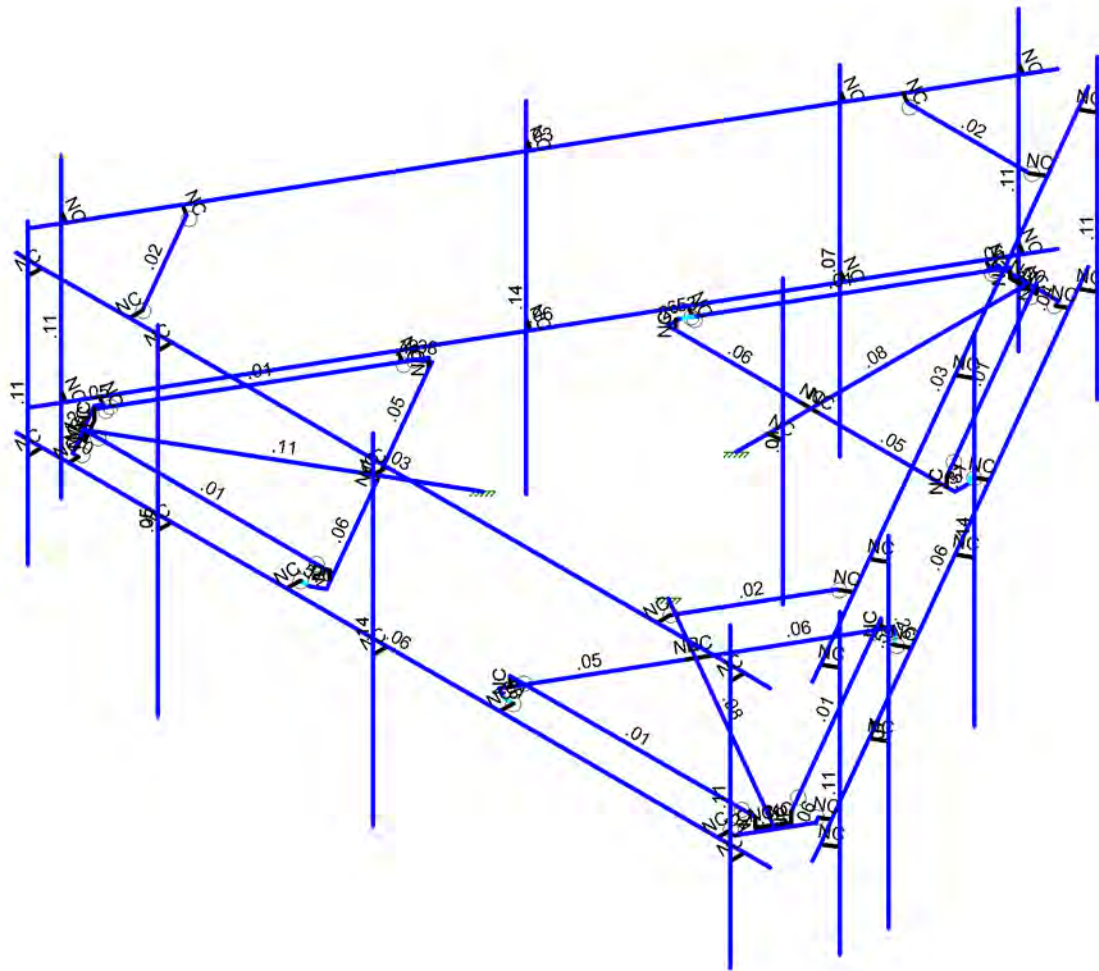
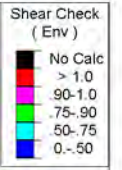
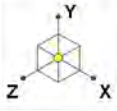
Envelope Only Solution

| | |
|-------------------------------|----------------------------|
| Colliers Engineering & Des... | SK - 1 |
| KM | June 6, 2024 at 1:11 PM |
| | 5000246826-VZW_MT_LO_H.r3d |



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

| | |
|-------------------------------|----------------------------|
| Colliers Engineering & Des... | SK - 2 |
| KM | June 6, 2024 at 1:11 PM |
| | 5000246826-VZW_MT_LO_H.r3d |



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & Des...

KM

SK - 3

June 6, 2024 at 1:11 PM

5000246826-VZW_MT_LO_H.r3d

Basic Load Cases

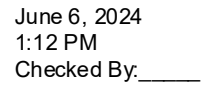
| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... | Surface(P... |
|----|-----------------------|----------|-----------|-----------|-----------|-------|-------|------------------------|--------------|
| 1 | Antenna D | None | | | | | 120 | | |
| 2 | Antenna Di | None | | | | | 120 | | |
| 3 | Antenna Wo (0 Deg) | None | | | | | 120 | | |
| 4 | Antenna Wo (30 Deg) | None | | | | | 120 | | |
| 5 | Antenna Wo (60 Deg) | None | | | | | 120 | | |
| 6 | Antenna Wo (90 Deg) | None | | | | | 120 | | |
| 7 | Antenna Wo (120 Deg) | None | | | | | 120 | | |
| 8 | Antenna Wo (150 Deg) | None | | | | | 120 | | |
| 9 | Antenna Wo (180 Deg) | None | | | | | 120 | | |
| 10 | Antenna Wo (210 Deg) | None | | | | | 120 | | |
| 11 | Antenna Wo (240 Deg) | None | | | | | 120 | | |
| 12 | Antenna Wo (270 Deg) | None | | | | | 120 | | |
| 13 | Antenna Wo (300 Deg) | None | | | | | 120 | | |
| 14 | Antenna Wo (330 Deg) | None | | | | | 120 | | |
| 15 | Antenna Wi (0 Deg) | None | | | | | 120 | | |
| 16 | Antenna Wi (30 Deg) | None | | | | | 120 | | |
| 17 | Antenna Wi (60 Deg) | None | | | | | 120 | | |
| 18 | Antenna Wi (90 Deg) | None | | | | | 120 | | |
| 19 | Antenna Wi (120 Deg) | None | | | | | 120 | | |
| 20 | Antenna Wi (150 Deg) | None | | | | | 120 | | |
| 21 | Antenna Wi (180 Deg) | None | | | | | 120 | | |
| 22 | Antenna Wi (210 Deg) | None | | | | | 120 | | |
| 23 | Antenna Wi (240 Deg) | None | | | | | 120 | | |
| 24 | Antenna Wi (270 Deg) | None | | | | | 120 | | |
| 25 | Antenna Wi (300 Deg) | None | | | | | 120 | | |
| 26 | Antenna Wi (330 Deg) | None | | | | | 120 | | |
| 27 | Antenna Wm (0 Deg) | None | | | | | 120 | | |
| 28 | Antenna Wm (30 Deg) | None | | | | | 120 | | |
| 29 | Antenna Wm (60 Deg) | None | | | | | 120 | | |
| 30 | Antenna Wm (90 Deg) | None | | | | | 120 | | |
| 31 | Antenna Wm (120 De.. | None | | | | | 120 | | |
| 32 | Antenna Wm (150 De.. | None | | | | | 120 | | |
| 33 | Antenna Wm (180 De.. | None | | | | | 120 | | |
| 34 | Antenna Wm (210 De.. | None | | | | | 120 | | |
| 35 | Antenna Wm (240 De.. | None | | | | | 120 | | |
| 36 | Antenna Wm (270 De.. | None | | | | | 120 | | |
| 37 | Antenna Wm (300 De.. | None | | | | | 120 | | |
| 38 | Antenna Wm (330 De.. | None | | | | | 120 | | |
| 39 | Structure D | None | | -1 | | | | | 3 |
| 40 | Structure Di | None | | | | | | 59 | 3 |
| 41 | Structure Wo (0 Deg) | None | | | | | | 118 | |
| 42 | Structure Wo (30 Deg) | None | | | | | | 118 | |
| 43 | Structure Wo (60 Deg) | None | | | | | | 118 | |
| 44 | Structure Wo (90 Deg) | None | | | | | | 118 | |
| 45 | Structure Wo (120 D.. | None | | | | | | 118 | |
| 46 | Structure Wo (150 D.. | None | | | | | | 118 | |
| 47 | Structure Wo (180 D.. | None | | | | | | 118 | |
| 48 | Structure Wo (210 D.. | None | | | | | | 118 | |

Basic Load Cases (Continued)

| | BLC Description | Category | X Gravity | Y Gravity | Z Gravity | Joint | Point | Distributed Area(Me... | Surface(P... |
|----|-------------------------|----------|-----------|-----------|-----------|-------|-------|------------------------|--------------|
| 49 | Structure Wo (240 D... | None | | | | | | 118 | |
| 50 | Structure Wo (270 D... | None | | | | | | 118 | |
| 51 | Structure Wo (300 D... | None | | | | | | 118 | |
| 52 | Structure Wo (330 D... | None | | | | | | 118 | |
| 53 | Structure Wi (0 Deg) | None | | | | | | 118 | |
| 54 | Structure Wi (30 Deg) | None | | | | | | 118 | |
| 55 | Structure Wi (60 Deg) | None | | | | | | 118 | |
| 56 | Structure Wi (90 Deg) | None | | | | | | 118 | |
| 57 | Structure Wi (120 De... | None | | | | | | 118 | |
| 58 | Structure Wi (150 De... | None | | | | | | 118 | |
| 59 | Structure Wi (180 De... | None | | | | | | 118 | |
| 60 | Structure Wi (210 De... | None | | | | | | 118 | |
| 61 | Structure Wi (240 De... | None | | | | | | 118 | |
| 62 | Structure Wi (270 De... | None | | | | | | 118 | |
| 63 | Structure Wi (300 De... | None | | | | | | 118 | |
| 64 | Structure Wi (330 De... | None | | | | | | 118 | |
| 65 | Structure Wm (0 Deg) | None | | | | | | 118 | |
| 66 | Structure Wm (30 D... | None | | | | | | 118 | |
| 67 | Structure Wm (60 D... | None | | | | | | 118 | |
| 68 | Structure Wm (90 D... | None | | | | | | 118 | |
| 69 | Structure Wm (120 ... | None | | | | | | 118 | |
| 70 | Structure Wm (150 ... | None | | | | | | 118 | |
| 71 | Structure Wm (180 ... | None | | | | | | 118 | |
| 72 | Structure Wm (210 ... | None | | | | | | 118 | |
| 73 | Structure Wm (240 ... | None | | | | | | 118 | |
| 74 | Structure Wm (270 ... | None | | | | | | 118 | |
| 75 | Structure Wm (300 ... | None | | | | | | 118 | |
| 76 | Structure Wm (330 ... | None | | | | | | 118 | |
| 77 | Lm1 | None | | | | | 1 | | |
| 78 | Lm2 | None | | | | | 1 | | |
| 79 | Lv1 | None | | | | | 1 | | |
| 80 | Lv2 | None | | | | | 1 | | |
| 81 | Antenna Ev | None | | | | | 120 | | |
| 82 | Antenna Eh (0 Deg) | None | | | | | 80 | | |
| 83 | Antenna Eh (90 Deg) | None | | | | | 80 | | |
| 84 | Structure Ev | ELY | | -.021 | | | | | 3 |
| 85 | Structure Eh (0 Deg) | ELZ | | | -.053 | | | | 3 |
| 86 | Structure Eh (90 Deg) | ELX | .053 | | | | | | 3 |
| 87 | BLC 39 Transient Are... | None | | | | | | 30 | |
| 88 | BLC 40 Transient Are... | None | | | | | | 30 | |
| 89 | BLC 84 Transient Are... | None | | | | | | 30 | |
| 90 | BLC 85 Transient Are... | None | | | | | | 30 | |
| 91 | BLC 86 Transient Are... | None | | | | | | 30 | |

Load Combinations

| | Description | So...P... | S... | B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | 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 | | |



Load Combinations (Continued)

| | Description | So... | P... | S... | B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... | Fac..B... |
|--|-------------|-------|------|------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|--|-------------|-------|------|------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|

Hot Rolled Steel Section Sets

| | Label | Shape | Type | Design List | Material | Design ... | A [in2] | Iyy [in4] | Izz [in4] | J [in4] |
|---|-------------------------|----------|--------|--------------|----------------|------------|---------|-----------|-----------|---------|
| 1 | Face Horizontal | PIPE 3.0 | Beam | Pipe | A53 Gr.B | Typical | 2.07 | 2.85 | 2.85 | 5.69 |
| 2 | Mod Face Horizontal | PIPE 2.5 | Beam | Pipe | A53 Gr.B | Typical | 1.61 | 1.45 | 1.45 | 2.89 |
| 3 | Standoff Horizontal | HSS4X4X4 | Beam | SquareTube | A500 Gr.B R... | Typical | 3.37 | 7.8 | 7.8 | 12.8 |
| 4 | Corner Plate | PL1/2x6 | Beam | BAR | A36 Gr.36 | Typical | 3 | .063 | 9 | .237 |
| 5 | Platform Crossmember | HSS4X4X4 | Beam | SquareTube | A500 Gr.B R... | Typical | 3.37 | 7.8 | 7.8 | 12.8 |
| 6 | Grating Support | L2x2x3 | Beam | Single Angle | A36 Gr.36 | Typical | .722 | .271 | .271 | .009 |
| 7 | Mod Support Rail Corner | L3X3X4 | Beam | Single Angle | A36 Gr.36 | Typical | 1.44 | 1.23 | 1.23 | .031 |
| 8 | Mount Pipe | PIPE 2.0 | Column | Pipe | A53 Gr.B | Typical | 1.02 | .627 | .627 | 1.25 |
| 9 | Cross Arm Plate | PL3/8x6 | Column | RECT | A36 Gr.36 | Typical | 2.25 | .026 | 6.75 | .101 |

Hot Rolled Steel Properties

| | Label | E [ksi] | G [ksi] | Nu | Therm (/1... | Density[k/... | Yield[ksi] | Ry | Fu[ksi] | Rt |
|---|----------------|---------|---------|----|--------------|---------------|------------|-----|---------|-----|
| 1 | A992 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 2 | A36 Gr.36 | 29000 | 11154 | .3 | .65 | .49 | 36 | 1.5 | 58 | 1.2 |
| 3 | A572 Gr.50 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.1 | 65 | 1.1 |
| 4 | A500 Gr.B RND | 29000 | 11154 | .3 | .65 | .527 | 42 | 1.4 | 58 | 1.3 |
| 5 | A500 Gr.B Rect | 29000 | 11154 | .3 | .65 | .527 | 46 | 1.4 | 58 | 1.3 |
| 6 | A53 Gr.B | 29000 | 11154 | .3 | .65 | .49 | 35 | 1.6 | 60 | 1.2 |
| 7 | A1085 | 29000 | 11154 | .3 | .65 | .49 | 50 | 1.4 | 65 | 1.3 |
| 8 | 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 | M1 | N2 | N1 | | | Face Horizontal | Beam | Pipe | A53 Gr.B | Typical |
| 2 | M10 | N101 | N103A | | | Platform Cross... | Beam | SquareTube | A500 Gr.B... | Typical |

Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|----|-------|---------|---------|---------|-------------|-------------------|--------|--------------|--------------|--------------|
| 3 | M19 | N8 | N9 | | | RIGID | None | None | RIGID | Typical |
| 4 | M20 | N10 | N11 | | | RIGID | None | None | RIGID | Typical |
| 5 | M21 | N12 | N13 | | | RIGID | None | None | RIGID | Typical |
| 6 | M22 | N14 | N15 | | | RIGID | None | None | RIGID | Typical |
| 7 | MP3A | N17 | N16 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 8 | MP4A | N19 | N18 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 9 | MP2A | N21 | N20 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 10 | MP1A | N23 | N22 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 11 | M43 | N102 | N5 | | | Platform Cross... | Beam | SquareTube | A500 Gr.B... | Typical |
| 12 | M46 | N86C | N87A | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 13 | M51B | N87C | N93 | | | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 14 | M52B | N92 | N87B | | | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 15 | M52 | N87B | N88C | | | RIGID | None | None | RIGID | Typical |
| 16 | M58 | N102 | N24 | | | RIGID | None | None | RIGID | Typical |
| 17 | M59 | N24 | N103A | | | RIGID | None | None | RIGID | Typical |
| 18 | M76 | N101 | N105 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 19 | M77 | N105 | N131 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 20 | M79 | N131 | N86A | | | RIGID | None | None | RIGID | Typical |
| 21 | M80 | N87A | N135 | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 22 | M83 | N135 | N86D | | | RIGID | None | None | RIGID | Typical |
| 23 | M84 | N5 | N104A | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 24 | M85 | N104A | N144 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 25 | M88 | N144 | N86B | | | RIGID | None | None | RIGID | Typical |
| 26 | M91 | N86C | N148 | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 27 | M92 | N148 | N86E | | | RIGID | None | None | RIGID | Typical |
| 28 | M50 | N88C | N88A | | | RIGID | None | None | RIGID | Typical |
| 29 | M51 | N88A | N86G | | | RIGID | None | None | RIGID | Typical |
| 30 | M51A | N87C | N86G | | | RIGID | None | None | RIGID | Typical |
| 31 | M78 | N92 | N90 | | | RIGID | None | None | RIGID | Typical |
| 32 | M79A | N93 | N91 | | | RIGID | None | None | RIGID | Typical |
| 33 | M90A | N106A | N107A | | | Face Horizontal | Beam | Pipe | A53 Gr.B | Typical |
| 34 | M91B | N108A | N109A | | | RIGID | None | None | RIGID | Typical |
| 35 | M92B | N110A | N111A | | | RIGID | None | None | RIGID | Typical |
| 36 | M93A | N112A | N113A | | | RIGID | None | None | RIGID | Typical |
| 37 | MP4C | N119B | N118A | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 38 | MP2C | N121A | N120A | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 39 | MP1C | N123A | N122A | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 40 | M107A | N124A | N125A | | | Face Horizontal | Beam | Pipe | A53 Gr.B | Typical |
| 41 | M108 | N126A | N127A | | | RIGID | None | None | RIGID | Typical |
| 42 | M109 | N128A | N129A | | | RIGID | None | None | RIGID | Typical |
| 43 | M110 | N130A | N131B | | | RIGID | None | None | RIGID | Typical |
| 44 | MP4B | N137A | N136A | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 45 | MP2B | N139A | N138A | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 46 | MP1B | N141A | N140A | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 47 | M77A | N90A | N86 | | | Platform Cross... | Beam | SquareTube | A500 Gr.B... | Typical |
| 48 | M78A | N100 | N101A | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 49 | M79B | N105A | N112 | | | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 50 | M80A | N111 | N107 | | | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 51 | M81 | N107 | N108 | | | RIGID | None | None | RIGID | Typical |
| 52 | M82 | N90A | N87 | | | RIGID | None | None | RIGID | Typical |
| 53 | M83A | N87 | N91A | | | RIGID | None | None | RIGID | Typical |
| 54 | M84A | N89 | N93A | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |

Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|-----|-------|---------|---------|---------|-------------|-------------------|--------|--------------|--------------|--------------|
| 55 | M85A | N93A | N94 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 56 | M86 | N94 | N98 | | | RIGID | None | None | RIGID | Typical |
| 57 | M87 | N101A | N95 | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 58 | M88A | N95 | N102A | | | RIGID | None | None | RIGID | Typical |
| 59 | M89 | N86 | N92A | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 60 | M90 | N92A | N96 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 61 | M91A | N96 | N99 | | | RIGID | None | None | RIGID | Typical |
| 62 | M92A | N100 | N97 | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 63 | M93 | N97 | N103 | | | RIGID | None | None | RIGID | Typical |
| 64 | M94 | N108 | N104 | | | RIGID | None | None | RIGID | Typical |
| 65 | M95 | N104 | N106 | | | RIGID | None | None | RIGID | Typical |
| 66 | M96 | N105A | N106 | | | RIGID | None | None | RIGID | Typical |
| 67 | M97 | N111 | N109 | | | RIGID | None | None | RIGID | Typical |
| 68 | M98 | N112 | N110 | | | RIGID | None | None | RIGID | Typical |
| 69 | M100B | N118 | N114 | | | Platform Cross... | Beam | SquareTube | A500 Gr.B... | Typical |
| 70 | M101B | N128 | N129 | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 71 | M102B | N133 | N140 | | | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 72 | M103B | N139 | N135A | | | Grating Support | Beam | Single Angle | A36 Gr.36 | Typical |
| 73 | M104B | N135A | N136 | | | RIGID | None | None | RIGID | Typical |
| 74 | M105B | N118 | N115 | | | RIGID | None | None | RIGID | Typical |
| 75 | M106B | N115 | N119 | | | RIGID | None | None | RIGID | Typical |
| 76 | M107B | N117 | N121 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 77 | M108A | N121 | N122 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 78 | M109A | N122 | N126 | | | RIGID | None | None | RIGID | Typical |
| 79 | M110A | N129 | N123 | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 80 | M111A | N123 | N130 | | | RIGID | None | None | RIGID | Typical |
| 81 | M112A | N114 | N120 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 82 | M113A | N120 | N124 | | | Cross Arm Plate | Column | RECT | A36 Gr.36 | Typical |
| 83 | M114A | N124 | N127 | | | RIGID | None | None | RIGID | Typical |
| 84 | M115A | N128 | N125 | | | Corner Plate | Beam | BAR | A36 Gr.36 | Typical |
| 85 | M116A | N125 | N131A | | | RIGID | None | None | RIGID | Typical |
| 86 | M117A | N136 | N132 | | | RIGID | None | None | RIGID | Typical |
| 87 | M118A | N132 | N134 | | | RIGID | None | None | RIGID | Typical |
| 88 | M119A | N133 | N134 | | | RIGID | None | None | RIGID | Typical |
| 89 | M120A | N139 | N137 | | | RIGID | None | None | RIGID | Typical |
| 90 | M121A | N140 | N138 | | | RIGID | None | None | RIGID | Typical |
| 91 | M122A | N89 | N91A | | | Platform Cross... | Beam | SquareTube | A500 Gr.B... | Typical |
| 92 | M123A | N117 | N119 | | | Platform Cross... | Beam | SquareTube | A500 Gr.B... | Typical |
| 93 | M124 | N140B | N27 | | | Standoff Horiz... | Beam | SquareTube | A500 Gr.B... | Typical |
| 94 | M125 | N141 | N88 | | | Standoff Horiz... | Beam | SquareTube | A500 Gr.B... | Typical |
| 95 | M126 | N142 | N116 | | | Standoff Horiz... | Beam | SquareTube | A500 Gr.B... | Typical |
| 96 | M100 | N140C | N141B | | | RIGID | None | None | RIGID | Typical |
| 97 | M103 | N143 | N145 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 98 | M102 | N144A | N145A | | | RIGID | None | None | RIGID | Typical |
| 99 | MP3B | N147 | N146 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 100 | M104 | N148A | N149 | | | RIGID | None | None | RIGID | Typical |
| 101 | MP3C | N151 | N150 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 102 | M106 | N14 | N15 | | | RIGID | None | None | RIGID | Typical |
| 103 | M107 | N17 | N16 | | | Mount Pipe | Column | Pipe | A53 Gr.B | Typical |
| 104 | M104A | N145B | N144B | | | Mod Face Hori... | Beam | Pipe | A53 Gr.B | Typical |
| 105 | M105 | N146A | N147A | | | RIGID | None | None | RIGID | Typical |
| 106 | M106A | N148B | N149A | | | RIGID | None | None | RIGID | Typical |

Member Primary Data (Continued)

| | Label | I Joint | J Joint | K Joint | Rotate(deg) | Section/Shape | Type | Design List | Material | Design Rules |
|-----|-------|---------|---------|---------|-------------|------------------|------|--------------|-----------|--------------|
| 107 | M107C | N150A | N151A | | | RIGID | None | None | RIGID | Typical |
| 108 | M108B | N152 | N153 | | | RIGID | None | None | RIGID | Typical |
| 109 | M109B | N154 | N155 | | | Mod Face Hori... | Beam | Pipe | A53 Gr.B | Typical |
| 110 | M110B | N156 | N157 | | | RIGID | None | None | RIGID | Typical |
| 111 | M111 | N158 | N159 | | | RIGID | None | None | RIGID | Typical |
| 112 | M112 | N160 | N161 | | | RIGID | None | None | RIGID | Typical |
| 113 | M113 | N162 | N163 | | | Mod Face Hori... | Beam | Pipe | A53 Gr.B | Typical |
| 114 | M114 | N164 | N165 | | | RIGID | None | None | RIGID | Typical |
| 115 | M115 | N166 | N167 | | | RIGID | None | None | RIGID | Typical |
| 116 | M116 | N168 | N169 | | | RIGID | None | None | RIGID | Typical |
| 117 | M117 | N170 | N171 | | | RIGID | None | None | RIGID | Typical |
| 118 | M118 | N172 | N173 | | | RIGID | None | None | RIGID | Typical |
| 119 | M119 | N152 | N153 | | | RIGID | None | None | RIGID | Typical |
| 120 | M120 | N175 | N176 | | | RIGID | None | None | RIGID | Typical |
| 121 | M121 | N174 | N178 | | | RIGID | None | None | RIGID | Typical |
| 122 | M122 | N180 | N181 | | | RIGID | None | None | RIGID | Typical |
| 123 | M123 | N179 | N182 | | | RIGID | None | None | RIGID | Typical |
| 124 | M124A | N185 | N186 | | | RIGID | None | None | RIGID | Typical |
| 125 | M125A | N184 | N187 | | | RIGID | None | None | RIGID | Typical |
| 126 | M126A | N178 | N186 | | 90 | Mod Support ... | Beam | Single Angle | A36 Gr.36 | Typical |
| 127 | M127 | N182 | N176 | | 90 | Mod Support ... | Beam | Single Angle | A36 Gr.36 | Typical |
| 128 | M128 | N187 | N181 | | 90 | Mod Support ... | Beam | Single Angle | A36 Gr.36 | Typical |

Member Advanced Data

| | Label | I Release | J Release | I Offset[in] | J Offset[in] | T/C Only | Physical | Defl Rat... | Analysis ... | Inactive | Seismic... |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 1 | M1 | | | | | | Yes | Default | | | None |
| 2 | M10 | | | | | | Yes | Default | | | None |
| 3 | M19 | | | | | | Yes | ** NA ** | | | None |
| 4 | M20 | | | | | | Yes | ** NA ** | | | None |
| 5 | M21 | | | | | | Yes | ** NA ** | | | None |
| 6 | M22 | | | | | | Yes | ** NA ** | | | None |
| 7 | MP3A | | | | | | Yes | ** NA ** | | | None |
| 8 | MP4A | | | | | | Yes | ** NA ** | | | None |
| 9 | MP2A | | | | | | Yes | ** NA ** | | | None |
| 10 | MP1A | | | | | | Yes | ** NA ** | | | None |
| 11 | M43 | | | | | | Yes | Default | | | None |
| 12 | M46 | | | | | | Yes | Default | | | None |
| 13 | M51B | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 14 | M52B | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 15 | M52 | | | | | | Yes | ** NA ** | | | None |
| 16 | M58 | | | | | | Yes | ** NA ** | | | None |
| 17 | M59 | | | | | | Yes | ** NA ** | | | None |
| 18 | M76 | | | | | | Yes | ** NA ** | | | None |
| 19 | M77 | | | | | | Yes | ** NA ** | | | None |
| 20 | M79 | | BenPIN | | | | Yes | ** NA ** | | | None |
| 21 | M80 | | | | | | Yes | | | | None |
| 22 | M83 | | BenPIN | | | | Yes | ** NA ** | | | None |
| 23 | M84 | | | | | | Yes | ** NA ** | | | None |
| 24 | M85 | | | | | | Yes | ** NA ** | | | None |
| 25 | M88 | | BenPIN | | | | 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... |
|----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 26 | M91 | | | | | | Yes | | | | None |
| 27 | M92 | | BenPIN | | | | Yes | ** NA ** | | | None |
| 28 | M50 | | | | | | Yes | ** NA ** | | | None |
| 29 | M51 | | | | | | Yes | ** NA ** | | | None |
| 30 | M51A | | | | | | Yes | ** NA ** | | | None |
| 31 | M78 | | | | | | Yes | ** NA ** | | | None |
| 32 | M79A | | | | | | Yes | ** NA ** | | | None |
| 33 | M90A | | | | | | Yes | Default | | | None |
| 34 | M91B | | | | | | Yes | ** NA ** | | | None |
| 35 | M92B | | | | | | Yes | ** NA ** | | | None |
| 36 | M93A | | | | | | Yes | ** NA ** | | | None |
| 37 | MP4C | | | | | | Yes | ** NA ** | | | None |
| 38 | MP2C | | | | | | Yes | ** NA ** | | | None |
| 39 | MP1C | | | | | | Yes | ** NA ** | | | None |
| 40 | M107A | | | | | | Yes | Default | | | None |
| 41 | M108 | | | | | | Yes | ** NA ** | | | None |
| 42 | M109 | | | | | | Yes | ** NA ** | | | None |
| 43 | M110 | | | | | | Yes | ** NA ** | | | None |
| 44 | MP4B | | | | | | Yes | ** NA ** | | | None |
| 45 | MP2B | | | | | | Yes | ** NA ** | | | None |
| 46 | MP1B | | | | | | Yes | ** NA ** | | | None |
| 47 | M77A | | | | | | Yes | Default | | | None |
| 48 | M78A | | | | | | Yes | Default | | | None |
| 49 | M79B | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 50 | M80A | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 51 | M81 | | | | | | Yes | ** NA ** | | | None |
| 52 | M82 | | | | | | Yes | ** NA ** | | | None |
| 53 | M83A | | | | | | Yes | ** NA ** | | | None |
| 54 | M84A | | | | | | Yes | ** NA ** | | | None |
| 55 | M85A | | | | | | Yes | ** NA ** | | | None |
| 56 | M86 | | BenPIN | | | | Yes | ** NA ** | | | None |
| 57 | M87 | | | | | | Yes | | | | None |
| 58 | M88A | | BenPIN | | | | Yes | ** NA ** | | | None |
| 59 | M89 | | | | | | Yes | ** NA ** | | | None |
| 60 | M90 | | | | | | Yes | ** NA ** | | | None |
| 61 | M91A | | BenPIN | | | | Yes | ** NA ** | | | None |
| 62 | M92A | | | | | | Yes | | | | None |
| 63 | M93 | | BenPIN | | | | Yes | ** NA ** | | | None |
| 64 | M94 | | | | | | Yes | ** NA ** | | | None |
| 65 | M95 | | | | | | Yes | ** NA ** | | | None |
| 66 | M96 | | | | | | Yes | ** NA ** | | | None |
| 67 | M97 | | | | | | Yes | ** NA ** | | | None |
| 68 | M98 | | | | | | Yes | ** NA ** | | | None |
| 69 | M100B | | | | | | Yes | Default | | | None |
| 70 | M101B | | | | | | Yes | Default | | | None |
| 71 | M102B | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 72 | M103B | OOOOOX | OOOOOX | | | | Yes | Default | | | None |
| 73 | M104B | | | | | | Yes | ** NA ** | | | None |
| 74 | M105B | | | | | | Yes | ** NA ** | | | None |
| 75 | M106B | | | | | | Yes | ** NA ** | | | None |
| 76 | M107B | | | | | | Yes | ** NA ** | | | None |
| 77 | M108A | | | | | | 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... |
|-----|-------|-----------|-----------|--------------|--------------|----------|----------|-------------|--------------|----------|------------|
| 78 | M109A | | BenPIN | | | | Yes | ** NA ** | | | None |
| 79 | M110A | | | | | | Yes | | | | None |
| 80 | M111A | | BenPIN | | | | Yes | ** NA ** | | | None |
| 81 | M112A | | | | | | Yes | ** NA ** | | | None |
| 82 | M113A | | | | | | Yes | ** NA ** | | | None |
| 83 | M114A | | BenPIN | | | | Yes | ** NA ** | | | None |
| 84 | M115A | | | | | | Yes | | | | None |
| 85 | M116A | | BenPIN | | | | Yes | ** NA ** | | | None |
| 86 | M117A | | | | | | Yes | ** NA ** | | | None |
| 87 | M118A | | | | | | Yes | ** NA ** | | | None |
| 88 | M119A | | | | | | Yes | ** NA ** | | | None |
| 89 | M120A | | | | | | Yes | ** NA ** | | | None |
| 90 | M121A | | | | | | Yes | ** NA ** | | | None |
| 91 | M122A | | | | | | Yes | Default | | | None |
| 92 | M123A | | | | | | Yes | Default | | | None |
| 93 | M124 | | | | | | Yes | | | | None |
| 94 | M125 | | | | | | Yes | | | | None |
| 95 | M126 | | | | | | Yes | | | | None |
| 96 | M100 | | | | | | Yes | ** NA ** | | | None |
| 97 | M103 | | | | | | Yes | ** NA ** | | | None |
| 98 | M102 | | | | | | Yes | ** NA ** | | | None |
| 99 | MP3B | | | | | | Yes | ** NA ** | | | None |
| 100 | M104 | | | | | | Yes | ** NA ** | | | None |
| 101 | MP3C | | | | | | Yes | ** NA ** | | | None |
| 102 | M106 | | | | | | Yes | ** NA ** | | | None |
| 103 | M107 | | | | | | Yes | ** NA ** | | | None |
| 104 | M104A | | | | | | Yes | Default | | | None |
| 105 | M105 | | | | | | Yes | ** NA ** | | | None |
| 106 | M106A | | | | | | Yes | ** NA ** | | | None |
| 107 | M107C | | | | | | Yes | ** NA ** | | | None |
| 108 | M108B | | | | | | Yes | ** NA ** | | | None |
| 109 | M109B | | | | | | Yes | Default | | | None |
| 110 | M110B | | | | | | Yes | ** NA ** | | | None |
| 111 | M111 | | | | | | Yes | ** NA ** | | | None |
| 112 | M112 | | | | | | Yes | ** NA ** | | | None |
| 113 | M113 | | | | | | Yes | Default | | | None |
| 114 | M114 | | | | | | Yes | ** NA ** | | | None |
| 115 | M115 | | | | | | Yes | ** NA ** | | | None |
| 116 | M116 | | | | | | Yes | ** NA ** | | | None |
| 117 | M117 | | | | | | Yes | ** NA ** | | | None |
| 118 | M118 | | | | | | Yes | ** NA ** | | | None |
| 119 | M119 | | | | | | Yes | ** NA ** | | | None |
| 120 | M120 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 121 | M121 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 122 | M122 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 123 | M123 | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 124 | M124A | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 125 | M125A | OOOOOX | | | | | Yes | ** NA ** | | | None |
| 126 | M126A | | | | | | Yes | | | | None |
| 127 | M127 | | | | | | Yes | | | | None |
| 128 | M128 | | | | | | Yes | | | | None |

Member Point Loads (BLC 1 : Antenna D)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -10.4 | 1 |
| 2 | MP2A | My | .005 | 1 |
| 3 | MP2A | Mz | 0 | 1 |
| 4 | MP2B | Y | -10.4 | 1 |
| 5 | MP2B | My | -.004 | 1 |
| 6 | MP2B | Mz | .003 | 1 |
| 7 | MP2C | Y | -10.4 | 1 |
| 8 | MP2C | My | -.002 | 1 |
| 9 | MP2C | Mz | -.005 | 1 |
| 10 | MP2A | Y | -84.4 | 2.5 |
| 11 | MP2A | My | .042 | 2.5 |
| 12 | MP2A | Mz | 0 | 2.5 |
| 13 | MP2B | Y | -84.4 | 2.5 |
| 14 | MP2B | My | -.032 | 2.5 |
| 15 | MP2B | Mz | .027 | 2.5 |
| 16 | MP2C | Y | -84.4 | 2.5 |
| 17 | MP2C | My | -.014 | 2.5 |
| 18 | MP2C | Mz | -.04 | 2.5 |
| 19 | MP3A | Y | -70.3 | 2.5 |
| 20 | MP3A | My | .035 | 2.5 |
| 21 | MP3A | Mz | 0 | 2.5 |
| 22 | MP3B | Y | -70.3 | 2.5 |
| 23 | MP3B | My | -.027 | 2.5 |
| 24 | MP3B | Mz | .023 | 2.5 |
| 25 | MP3C | Y | -70.3 | 2.5 |
| 26 | MP3C | My | -.012 | 2.5 |
| 27 | MP3C | Mz | -.033 | 2.5 |
| 28 | MP2A | Y | -31.65 | 1.4 |
| 29 | MP2A | My | -.036 | 1.4 |
| 30 | MP2A | Mz | .024 | 1.4 |
| 31 | MP2A | Y | -31.65 | 4.9 |
| 32 | MP2A | My | -.036 | 4.9 |
| 33 | MP2A | Mz | .024 | 4.9 |
| 34 | MP2B | Y | -31.65 | 1.4 |
| 35 | MP2B | My | .012 | 1.4 |
| 36 | MP2B | Mz | -.041 | 1.4 |
| 37 | MP2B | Y | -31.65 | 4.9 |
| 38 | MP2B | My | .012 | 4.9 |
| 39 | MP2B | Mz | -.041 | 4.9 |
| 40 | MP2C | Y | -31.65 | 1.4 |
| 41 | MP2C | My | .034 | 1.4 |
| 42 | MP2C | Mz | .025 | 1.4 |
| 43 | MP2C | Y | -31.65 | 4.9 |
| 44 | MP2C | My | .034 | 4.9 |
| 45 | MP2C | Mz | .025 | 4.9 |
| 46 | MP2A | Y | -31.65 | 1.4 |
| 47 | MP2A | My | -.036 | 1.4 |
| 48 | MP2A | Mz | -.024 | 1.4 |
| 49 | MP2A | Y | -31.65 | 4.9 |
| 50 | MP2A | My | -.036 | 4.9 |
| 51 | MP2A | Mz | -.024 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 52 | MP2B | Y | -31.65 | 1.4 |
| 53 | MP2B | My | .043 | 1.4 |
| 54 | MP2B | Mz | -.005 | 1.4 |
| 55 | MP2B | Y | -31.65 | 4.9 |
| 56 | MP2B | My | .043 | 4.9 |
| 57 | MP2B | Mz | -.005 | 4.9 |
| 58 | MP2C | Y | -31.65 | 1.4 |
| 59 | MP2C | My | -.01 | 1.4 |
| 60 | MP2C | Mz | .042 | 1.4 |
| 61 | MP2C | Y | -31.65 | 4.9 |
| 62 | MP2C | My | -.01 | 4.9 |
| 63 | MP2C | Mz | .042 | 4.9 |
| 64 | MP1C | Y | -13.5 | .25 |
| 65 | MP1C | My | .006 | .25 |
| 66 | MP1C | Mz | .016 | .25 |
| 67 | MP1C | Y | -13.5 | 5.08 |
| 68 | MP1C | My | .006 | 5.08 |
| 69 | MP1C | Mz | .016 | 5.08 |
| 70 | MP4C | Y | -13.5 | .25 |
| 71 | MP4C | My | .006 | .25 |
| 72 | MP4C | Mz | .016 | .25 |
| 73 | MP4C | Y | -13.5 | 5.08 |
| 74 | MP4C | My | .006 | 5.08 |
| 75 | MP4C | Mz | .016 | 5.08 |
| 76 | MP1A | Y | -10.5 | .25 |
| 77 | MP1A | My | -.014 | .25 |
| 78 | MP1A | Mz | 0 | .25 |
| 79 | MP1A | Y | -10.5 | 5.08 |
| 80 | MP1A | My | -.014 | 5.08 |
| 81 | MP1A | Mz | 0 | 5.08 |
| 82 | MP1B | Y | -10.5 | .25 |
| 83 | MP1B | My | .01 | .25 |
| 84 | MP1B | Mz | -.009 | .25 |
| 85 | MP1B | Y | -10.5 | 5.08 |
| 86 | MP1B | My | .01 | 5.08 |
| 87 | MP1B | Mz | -.009 | 5.08 |
| 88 | MP4A | Y | -10.5 | .25 |
| 89 | MP4A | My | -.014 | .25 |
| 90 | MP4A | Mz | 0 | .25 |
| 91 | MP4A | Y | -10.5 | 5.08 |
| 92 | MP4A | My | -.014 | 5.08 |
| 93 | MP4A | Mz | 0 | 5.08 |
| 94 | MP4B | Y | -10.5 | .25 |
| 95 | MP4B | My | .01 | .25 |
| 96 | MP4B | Mz | -.009 | .25 |
| 97 | MP4B | Y | -10.5 | 5.08 |
| 98 | MP4B | My | .01 | 5.08 |
| 99 | MP4B | Mz | -.009 | 5.08 |
| 100 | M103 | Y | -32 | 1 |
| 101 | M103 | My | 0 | 1 |
| 102 | M103 | Mz | 0 | 1 |
| 103 | MP3A | Y | -28.65 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 104 | MP3A | My | -.001 | 2.15 |
| 105 | MP3A | Mz | 0 | 2.15 |
| 106 | MP3A | Y | -28.65 | 4.15 |
| 107 | MP3A | My | -.001 | 4.15 |
| 108 | MP3A | Mz | 0 | 4.15 |
| 109 | MP3B | Y | -28.65 | 2.15 |
| 110 | MP3B | My | .000914 | 2.15 |
| 111 | MP3B | Mz | -.000767 | 2.15 |
| 112 | MP3B | Y | -28.65 | 4.15 |
| 113 | MP3B | My | .000914 | 4.15 |
| 114 | MP3B | Mz | -.000767 | 4.15 |
| 115 | MP3C | Y | -28.65 | 2.15 |
| 116 | MP3C | My | .000408 | 2.15 |
| 117 | MP3C | Mz | .001 | 2.15 |
| 118 | MP3C | Y | -28.65 | 4.15 |
| 119 | MP3C | My | .000408 | 4.15 |
| 120 | MP3C | Mz | .001 | 4.15 |

Member Point Loads (BLC 2 : Antenna Di)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -10.658 | 1 |
| 2 | MP2A | My | .005 | 1 |
| 3 | MP2A | Mz | 0 | 1 |
| 4 | MP2B | Y | -10.658 | 1 |
| 5 | MP2B | My | -.004 | 1 |
| 6 | MP2B | Mz | .003 | 1 |
| 7 | MP2C | Y | -10.658 | 1 |
| 8 | MP2C | My | -.002 | 1 |
| 9 | MP2C | Mz | -.005 | 1 |
| 10 | MP2A | Y | -44.59 | 2.5 |
| 11 | MP2A | My | .022 | 2.5 |
| 12 | MP2A | Mz | 0 | 2.5 |
| 13 | MP2B | Y | -44.59 | 2.5 |
| 14 | MP2B | My | -.017 | 2.5 |
| 15 | MP2B | Mz | .014 | 2.5 |
| 16 | MP2C | Y | -44.59 | 2.5 |
| 17 | MP2C | My | -.008 | 2.5 |
| 18 | MP2C | Mz | -.021 | 2.5 |
| 19 | MP3A | Y | -40.098 | 2.5 |
| 20 | MP3A | My | .02 | 2.5 |
| 21 | MP3A | Mz | 0 | 2.5 |
| 22 | MP3B | Y | -40.098 | 2.5 |
| 23 | MP3B | My | -.015 | 2.5 |
| 24 | MP3B | Mz | .013 | 2.5 |
| 25 | MP3C | Y | -40.098 | 2.5 |
| 26 | MP3C | My | -.007 | 2.5 |
| 27 | MP3C | Mz | -.019 | 2.5 |
| 28 | MP2A | Y | -69.48 | 1.4 |
| 29 | MP2A | My | -.078 | 1.4 |
| 30 | MP2A | Mz | .052 | 1.4 |
| 31 | MP2A | Y | -69.48 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 32 | MP2A | My | -.078 | 4.9 |
| 33 | MP2A | Mz | .052 | 4.9 |
| 34 | MP2B | Y | -69.48 | 1.4 |
| 35 | MP2B | My | .026 | 1.4 |
| 36 | MP2B | Mz | -.09 | 1.4 |
| 37 | MP2B | Y | -69.48 | 4.9 |
| 38 | MP2B | My | .026 | 4.9 |
| 39 | MP2B | Mz | -.09 | 4.9 |
| 40 | MP2C | Y | -69.48 | 1.4 |
| 41 | MP2C | My | .076 | 1.4 |
| 42 | MP2C | Mz | .056 | 1.4 |
| 43 | MP2C | Y | -69.48 | 4.9 |
| 44 | MP2C | My | .076 | 4.9 |
| 45 | MP2C | Mz | .056 | 4.9 |
| 46 | MP2A | Y | -69.48 | 1.4 |
| 47 | MP2A | My | -.078 | 1.4 |
| 48 | MP2A | Mz | -.052 | 1.4 |
| 49 | MP2A | Y | -69.48 | 4.9 |
| 50 | MP2A | My | -.078 | 4.9 |
| 51 | MP2A | Mz | -.052 | 4.9 |
| 52 | MP2B | Y | -69.48 | 1.4 |
| 53 | MP2B | My | .093 | 1.4 |
| 54 | MP2B | Mz | -.01 | 1.4 |
| 55 | MP2B | Y | -69.48 | 4.9 |
| 56 | MP2B | My | .093 | 4.9 |
| 57 | MP2B | Mz | -.01 | 4.9 |
| 58 | MP2C | Y | -69.48 | 1.4 |
| 59 | MP2C | My | -.022 | 1.4 |
| 60 | MP2C | Mz | .091 | 1.4 |
| 61 | MP2C | Y | -69.48 | 4.9 |
| 62 | MP2C | My | -.022 | 4.9 |
| 63 | MP2C | Mz | .091 | 4.9 |
| 64 | MP1C | Y | -88.088 | .25 |
| 65 | MP1C | My | .039 | .25 |
| 66 | MP1C | Mz | .107 | .25 |
| 67 | MP1C | Y | -88.088 | 5.08 |
| 68 | MP1C | My | .039 | 5.08 |
| 69 | MP1C | Mz | .107 | 5.08 |
| 70 | MP4C | Y | -88.088 | .25 |
| 71 | MP4C | My | .039 | .25 |
| 72 | MP4C | Mz | .107 | .25 |
| 73 | MP4C | Y | -88.088 | 5.08 |
| 74 | MP4C | My | .039 | 5.08 |
| 75 | MP4C | Mz | .107 | 5.08 |
| 76 | MP1A | Y | -58.082 | .25 |
| 77 | MP1A | My | -.075 | .25 |
| 78 | MP1A | Mz | 0 | .25 |
| 79 | MP1A | Y | -58.082 | 5.08 |
| 80 | MP1A | My | -.075 | 5.08 |
| 81 | MP1A | Mz | 0 | 5.08 |
| 82 | MP1B | Y | -58.082 | .25 |
| 83 | MP1B | My | .057 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 84 | MP1B | Mz | -.048 | .25 |
| 85 | MP1B | Y | -58.082 | 5.08 |
| 86 | MP1B | My | .057 | 5.08 |
| 87 | MP1B | Mz | -.048 | 5.08 |
| 88 | MP4A | Y | -58.082 | .25 |
| 89 | MP4A | My | -.075 | .25 |
| 90 | MP4A | Mz | 0 | .25 |
| 91 | MP4A | Y | -58.082 | 5.08 |
| 92 | MP4A | My | -.075 | 5.08 |
| 93 | MP4A | Mz | 0 | 5.08 |
| 94 | MP4B | Y | -58.082 | .25 |
| 95 | MP4B | My | .057 | .25 |
| 96 | MP4B | Mz | -.048 | .25 |
| 97 | MP4B | Y | -58.082 | 5.08 |
| 98 | MP4B | My | .057 | 5.08 |
| 99 | MP4B | Mz | -.048 | 5.08 |
| 100 | M103 | Y | -86.951 | 1 |
| 101 | M103 | My | 0 | 1 |
| 102 | M103 | Mz | 0 | 1 |
| 103 | MP3A | Y | -29.445 | 2.15 |
| 104 | MP3A | My | -.001 | 2.15 |
| 105 | MP3A | Mz | 0 | 2.15 |
| 106 | MP3A | Y | -29.445 | 4.15 |
| 107 | MP3A | My | -.001 | 4.15 |
| 108 | MP3A | Mz | 0 | 4.15 |
| 109 | MP3B | Y | -29.445 | 2.15 |
| 110 | MP3B | My | .00094 | 2.15 |
| 111 | MP3B | Mz | -.000789 | 2.15 |
| 112 | MP3B | Y | -29.445 | 4.15 |
| 113 | MP3B | My | .00094 | 4.15 |
| 114 | MP3B | Mz | -.000789 | 4.15 |
| 115 | MP3C | Y | -29.445 | 2.15 |
| 116 | MP3C | My | .00042 | 2.15 |
| 117 | MP3C | Mz | .001 | 2.15 |
| 118 | MP3C | Y | -29.445 | 4.15 |
| 119 | MP3C | My | .00042 | 4.15 |
| 120 | MP3C | Mz | .001 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 1 |
| 2 | MP2A | Z | -10.974 | 1 |
| 3 | MP2A | Mx | 0 | 1 |
| 4 | MP2B | X | 0 | 1 |
| 5 | MP2B | Z | -9.577 | 1 |
| 6 | MP2B | Mx | -.003 | 1 |
| 7 | MP2C | X | 0 | 1 |
| 8 | MP2C | Z | -7.988 | 1 |
| 9 | MP2C | Mx | .004 | 1 |
| 10 | MP2A | X | 0 | 2.5 |
| 11 | MP2A | Z | -45.97 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 12 | MP2A | Mx | 0 | 2.5 |
| 13 | MP2B | X | 0 | 2.5 |
| 14 | MP2B | Z | -39.721 | 2.5 |
| 15 | MP2B | Mx | -.013 | 2.5 |
| 16 | MP2C | X | 0 | 2.5 |
| 17 | MP2C | Z | -32.614 | 2.5 |
| 18 | MP2C | Mx | .015 | 2.5 |
| 19 | MP3A | X | 0 | 2.5 |
| 20 | MP3A | Z | -45.97 | 2.5 |
| 21 | MP3A | Mx | 0 | 2.5 |
| 22 | MP3B | X | 0 | 2.5 |
| 23 | MP3B | Z | -37.392 | 2.5 |
| 24 | MP3B | Mx | -.012 | 2.5 |
| 25 | MP3C | X | 0 | 2.5 |
| 26 | MP3C | Z | -27.638 | 2.5 |
| 27 | MP3C | Mx | .013 | 2.5 |
| 28 | MP2A | X | 0 | 1.4 |
| 29 | MP2A | Z | -135.093 | 1.4 |
| 30 | MP2A | Mx | -.101 | 1.4 |
| 31 | MP2A | X | 0 | 4.9 |
| 32 | MP2A | Z | -135.093 | 4.9 |
| 33 | MP2A | Mx | -.101 | 4.9 |
| 34 | MP2B | X | 0 | 1.4 |
| 35 | MP2B | Z | -115.936 | 1.4 |
| 36 | MP2B | Mx | .15 | 1.4 |
| 37 | MP2B | X | 0 | 4.9 |
| 38 | MP2B | Z | -115.936 | 4.9 |
| 39 | MP2B | Mx | .15 | 4.9 |
| 40 | MP2C | X | 0 | 1.4 |
| 41 | MP2C | Z | -94.151 | 1.4 |
| 42 | MP2C | Mx | -.075 | 1.4 |
| 43 | MP2C | X | 0 | 4.9 |
| 44 | MP2C | Z | -94.151 | 4.9 |
| 45 | MP2C | Mx | -.075 | 4.9 |
| 46 | MP2A | X | 0 | 1.4 |
| 47 | MP2A | Z | -135.093 | 1.4 |
| 48 | MP2A | Mx | .101 | 1.4 |
| 49 | MP2A | X | 0 | 4.9 |
| 50 | MP2A | Z | -135.093 | 4.9 |
| 51 | MP2A | Mx | .101 | 4.9 |
| 52 | MP2B | X | 0 | 1.4 |
| 53 | MP2B | Z | -115.936 | 1.4 |
| 54 | MP2B | Mx | .017 | 1.4 |
| 55 | MP2B | X | 0 | 4.9 |
| 56 | MP2B | Z | -115.936 | 4.9 |
| 57 | MP2B | Mx | .017 | 4.9 |
| 58 | MP2C | X | 0 | 1.4 |
| 59 | MP2C | Z | -94.151 | 1.4 |
| 60 | MP2C | Mx | -.124 | 1.4 |
| 61 | MP2C | X | 0 | 4.9 |
| 62 | MP2C | Z | -94.151 | 4.9 |
| 63 | MP2C | Mx | -.124 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 64 | MP1C | X | 0 | .25 |
| 65 | MP1C | Z | -128.934 | .25 |
| 66 | MP1C | Mx | -.156 | .25 |
| 67 | MP1C | X | 0 | 5.08 |
| 68 | MP1C | Z | -128.934 | 5.08 |
| 69 | MP1C | Mx | -.156 | 5.08 |
| 70 | MP4C | X | 0 | .25 |
| 71 | MP4C | Z | -128.934 | .25 |
| 72 | MP4C | Mx | -.156 | .25 |
| 73 | MP4C | X | 0 | 5.08 |
| 74 | MP4C | Z | -128.934 | 5.08 |
| 75 | MP4C | Mx | -.156 | 5.08 |
| 76 | MP1A | X | 0 | .25 |
| 77 | MP1A | Z | -64.21 | .25 |
| 78 | MP1A | Mx | 0 | .25 |
| 79 | MP1A | X | 0 | 5.08 |
| 80 | MP1A | Z | -64.21 | 5.08 |
| 81 | MP1A | Mx | 0 | 5.08 |
| 82 | MP1B | X | 0 | .25 |
| 83 | MP1B | Z | -90.546 | .25 |
| 84 | MP1B | Mx | .075 | .25 |
| 85 | MP1B | X | 0 | 5.08 |
| 86 | MP1B | Z | -90.546 | 5.08 |
| 87 | MP1B | Mx | .075 | 5.08 |
| 88 | MP4A | X | 0 | .25 |
| 89 | MP4A | Z | -64.21 | .25 |
| 90 | MP4A | Mx | 0 | .25 |
| 91 | MP4A | X | 0 | 5.08 |
| 92 | MP4A | Z | -64.21 | 5.08 |
| 93 | MP4A | Mx | 0 | 5.08 |
| 94 | MP4B | X | 0 | .25 |
| 95 | MP4B | Z | -90.546 | .25 |
| 96 | MP4B | Mx | .075 | .25 |
| 97 | MP4B | X | 0 | 5.08 |
| 98 | MP4B | Z | -90.546 | 5.08 |
| 99 | MP4B | Mx | .075 | 5.08 |
| 100 | M103 | X | 0 | 1 |
| 101 | M103 | Z | -90.361 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 0 | 2.15 |
| 104 | MP3A | Z | -46.338 | 2.15 |
| 105 | MP3A | Mx | 0 | 2.15 |
| 106 | MP3A | X | 0 | 4.15 |
| 107 | MP3A | Z | -46.338 | 4.15 |
| 108 | MP3A | Mx | 0 | 4.15 |
| 109 | MP3B | X | 0 | 2.15 |
| 110 | MP3B | Z | -33.917 | 2.15 |
| 111 | MP3B | Mx | .000908 | 2.15 |
| 112 | MP3B | X | 0 | 4.15 |
| 113 | MP3B | Z | -33.917 | 4.15 |
| 114 | MP3B | Mx | .000908 | 4.15 |
| 115 | MP3C | X | 0 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 116 | MP3C | Z | -19.793 | 2.15 |
| 117 | MP3C | Mx | -.000775 | 2.15 |
| 118 | MP3C | X | 0 | 4.15 |
| 119 | MP3C | Z | -19.793 | 4.15 |
| 120 | MP3C | Mx | -.000775 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 5.064 | 1 |
| 2 | MP2A | Z | -8.771 | 1 |
| 3 | MP2A | Mx | .003 | 1 |
| 4 | MP2B | X | 3.994 | 1 |
| 5 | MP2B | Z | -6.918 | 1 |
| 6 | MP2B | Mx | -.004 | 1 |
| 7 | MP2C | X | 4.788 | 1 |
| 8 | MP2C | Z | -8.294 | 1 |
| 9 | MP2C | Mx | .003 | 1 |
| 10 | MP2A | X | 21.094 | 2.5 |
| 11 | MP2A | Z | -36.537 | 2.5 |
| 12 | MP2A | Mx | .011 | 2.5 |
| 13 | MP2B | X | 16.307 | 2.5 |
| 14 | MP2B | Z | -28.244 | 2.5 |
| 15 | MP2B | Mx | -.015 | 2.5 |
| 16 | MP2C | X | 19.86 | 2.5 |
| 17 | MP2C | Z | -34.399 | 2.5 |
| 18 | MP2C | Mx | .013 | 2.5 |
| 19 | MP3A | X | 20.39 | 2.5 |
| 20 | MP3A | Z | -35.317 | 2.5 |
| 21 | MP3A | Mx | .01 | 2.5 |
| 22 | MP3B | X | 13.819 | 2.5 |
| 23 | MP3B | Z | -23.935 | 2.5 |
| 24 | MP3B | Mx | -.013 | 2.5 |
| 25 | MP3C | X | 18.696 | 2.5 |
| 26 | MP3C | Z | -32.383 | 2.5 |
| 27 | MP3C | Mx | .012 | 2.5 |
| 28 | MP2A | X | 61.751 | 1.4 |
| 29 | MP2A | Z | -106.956 | 1.4 |
| 30 | MP2A | Mx | -.15 | 1.4 |
| 31 | MP2A | X | 61.751 | 4.9 |
| 32 | MP2A | Z | -106.956 | 4.9 |
| 33 | MP2A | Mx | -.15 | 4.9 |
| 34 | MP2B | X | 47.076 | 1.4 |
| 35 | MP2B | Z | -81.537 | 1.4 |
| 36 | MP2B | Mx | .124 | 1.4 |
| 37 | MP2B | X | 47.076 | 4.9 |
| 38 | MP2B | Z | -81.537 | 4.9 |
| 39 | MP2B | Mx | .124 | 4.9 |
| 40 | MP2C | X | 57.968 | 1.4 |
| 41 | MP2C | Z | -100.403 | 1.4 |
| 42 | MP2C | Mx | -.017 | 1.4 |
| 43 | MP2C | X | 57.968 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 44 | MP2C | Z | -100.403 | 4.9 |
| 45 | MP2C | Mx | -.017 | 4.9 |
| 46 | MP2A | X | 61.751 | 1.4 |
| 47 | MP2A | Z | -106.956 | 1.4 |
| 48 | MP2A | Mx | .011 | 1.4 |
| 49 | MP2A | X | 61.751 | 4.9 |
| 50 | MP2A | Z | -106.956 | 4.9 |
| 51 | MP2A | Mx | .011 | 4.9 |
| 52 | MP2B | X | 47.076 | 1.4 |
| 53 | MP2B | Z | -81.537 | 1.4 |
| 54 | MP2B | Mx | .075 | 1.4 |
| 55 | MP2B | X | 47.076 | 4.9 |
| 56 | MP2B | Z | -81.537 | 4.9 |
| 57 | MP2B | Mx | .075 | 4.9 |
| 58 | MP2C | X | 57.968 | 1.4 |
| 59 | MP2C | Z | -100.403 | 1.4 |
| 60 | MP2C | Mx | -.15 | 1.4 |
| 61 | MP2C | X | 57.968 | 4.9 |
| 62 | MP2C | Z | -100.403 | 4.9 |
| 63 | MP2C | Mx | -.15 | 4.9 |
| 64 | MP1C | X | 68.039 | .25 |
| 65 | MP1C | Z | -117.847 | .25 |
| 66 | MP1C | Mx | -.113 | .25 |
| 67 | MP1C | X | 68.039 | 5.08 |
| 68 | MP1C | Z | -117.847 | 5.08 |
| 69 | MP1C | Mx | -.113 | 5.08 |
| 70 | MP4C | X | 68.039 | .25 |
| 71 | MP4C | Z | -117.847 | .25 |
| 72 | MP4C | Mx | -.113 | .25 |
| 73 | MP4C | X | 68.039 | 5.08 |
| 74 | MP4C | Z | -117.847 | 5.08 |
| 75 | MP4C | Mx | -.113 | 5.08 |
| 76 | MP1A | X | 40.073 | .25 |
| 77 | MP1A | Z | -69.408 | .25 |
| 78 | MP1A | Mx | -.052 | .25 |
| 79 | MP1A | X | 40.073 | 5.08 |
| 80 | MP1A | Z | -69.408 | 5.08 |
| 81 | MP1A | Mx | -.052 | 5.08 |
| 82 | MP1B | X | 60.247 | .25 |
| 83 | MP1B | Z | -104.351 | .25 |
| 84 | MP1B | Mx | .146 | .25 |
| 85 | MP1B | X | 60.247 | 5.08 |
| 86 | MP1B | Z | -104.351 | 5.08 |
| 87 | MP1B | Mx | .146 | 5.08 |
| 88 | MP4A | X | 40.073 | .25 |
| 89 | MP4A | Z | -69.408 | .25 |
| 90 | MP4A | Mx | -.052 | .25 |
| 91 | MP4A | X | 40.073 | 5.08 |
| 92 | MP4A | Z | -69.408 | 5.08 |
| 93 | MP4A | Mx | -.052 | 5.08 |
| 94 | MP4B | X | 60.247 | .25 |
| 95 | MP4B | Z | -104.351 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 96 | MP4B | Mx | .146 | .25 |
| 97 | MP4B | X | 60.247 | 5.08 |
| 98 | MP4B | Z | -104.351 | 5.08 |
| 99 | MP4B | Mx | .146 | 5.08 |
| 100 | M103 | X | 46.148 | 1 |
| 101 | M103 | Z | -79.931 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 19.411 | 2.15 |
| 104 | MP3A | Z | -33.621 | 2.15 |
| 105 | MP3A | Mx | -.000809 | 2.15 |
| 106 | MP3A | X | 19.411 | 4.15 |
| 107 | MP3A | Z | -33.621 | 4.15 |
| 108 | MP3A | Mx | -.000809 | 4.15 |
| 109 | MP3B | X | 9.897 | 2.15 |
| 110 | MP3B | Z | -17.142 | 2.15 |
| 111 | MP3B | Mx | .000775 | 2.15 |
| 112 | MP3B | X | 9.897 | 4.15 |
| 113 | MP3B | Z | -17.142 | 4.15 |
| 114 | MP3B | Mx | .000775 | 4.15 |
| 115 | MP3C | X | 16.959 | 2.15 |
| 116 | MP3C | Z | -29.373 | 2.15 |
| 117 | MP3C | Mx | -.000908 | 2.15 |
| 118 | MP3C | X | 16.959 | 4.15 |
| 119 | MP3C | Z | -29.373 | 4.15 |
| 120 | MP3C | Mx | -.000908 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 7.307 | 1 |
| 2 | MP2A | Z | -4.219 | 1 |
| 3 | MP2A | Mx | .004 | 1 |
| 4 | MP2B | X | 6.664 | 1 |
| 5 | MP2B | Z | -3.847 | 1 |
| 6 | MP2B | Mx | -.004 | 1 |
| 7 | MP2C | X | 9.415 | 1 |
| 8 | MP2C | Z | -5.436 | 1 |
| 9 | MP2C | Mx | .000944 | 1 |
| 10 | MP2A | X | 29.987 | 2.5 |
| 11 | MP2A | Z | -17.313 | 2.5 |
| 12 | MP2A | Mx | .015 | 2.5 |
| 13 | MP2B | X | 27.107 | 2.5 |
| 14 | MP2B | Z | -15.65 | 2.5 |
| 15 | MP2B | Mx | -.015 | 2.5 |
| 16 | MP2C | X | 39.416 | 2.5 |
| 17 | MP2C | Z | -22.757 | 2.5 |
| 18 | MP2C | Mx | .004 | 2.5 |
| 19 | MP3A | X | 26.327 | 2.5 |
| 20 | MP3A | Z | -15.2 | 2.5 |
| 21 | MP3A | Mx | .013 | 2.5 |
| 22 | MP3B | X | 22.374 | 2.5 |
| 23 | MP3B | Z | -12.918 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 24 | MP3B | Mx | -.013 | 2.5 |
| 25 | MP3C | X | 39.269 | 2.5 |
| 26 | MP3C | Z | -22.672 | 2.5 |
| 27 | MP3C | Mx | .004 | 2.5 |
| 28 | MP2A | X | 86.879 | 1.4 |
| 29 | MP2A | Z | -50.159 | 1.4 |
| 30 | MP2A | Mx | -.135 | 1.4 |
| 31 | MP2A | X | 86.879 | 4.9 |
| 32 | MP2A | Z | -50.159 | 4.9 |
| 33 | MP2A | Mx | -.135 | 4.9 |
| 34 | MP2B | X | 78.051 | 1.4 |
| 35 | MP2B | Z | -45.063 | 1.4 |
| 36 | MP2B | Mx | .088 | 1.4 |
| 37 | MP2B | X | 78.051 | 4.9 |
| 38 | MP2B | Z | -45.063 | 4.9 |
| 39 | MP2B | Mx | .088 | 4.9 |
| 40 | MP2C | X | 115.783 | 1.4 |
| 41 | MP2C | Z | -66.847 | 1.4 |
| 42 | MP2C | Mx | .073 | 1.4 |
| 43 | MP2C | X | 115.783 | 4.9 |
| 44 | MP2C | Z | -66.847 | 4.9 |
| 45 | MP2C | Mx | .073 | 4.9 |
| 46 | MP2A | X | 86.879 | 1.4 |
| 47 | MP2A | Z | -50.159 | 1.4 |
| 48 | MP2A | Mx | -.06 | 1.4 |
| 49 | MP2A | X | 86.879 | 4.9 |
| 50 | MP2A | Z | -50.159 | 4.9 |
| 51 | MP2A | Mx | -.06 | 4.9 |
| 52 | MP2B | X | 78.051 | 1.4 |
| 53 | MP2B | Z | -45.063 | 1.4 |
| 54 | MP2B | Mx | .112 | 1.4 |
| 55 | MP2B | X | 78.051 | 4.9 |
| 56 | MP2B | Z | -45.063 | 4.9 |
| 57 | MP2B | Mx | .112 | 4.9 |
| 58 | MP2C | X | 115.783 | 1.4 |
| 59 | MP2C | Z | -66.847 | 1.4 |
| 60 | MP2C | Mx | -.125 | 1.4 |
| 61 | MP2C | X | 115.783 | 4.9 |
| 62 | MP2C | Z | -66.847 | 4.9 |
| 63 | MP2C | Mx | -.125 | 4.9 |
| 64 | MP1C | X | 122.89 | .25 |
| 65 | MP1C | Z | -70.95 | .25 |
| 66 | MP1C | Mx | -.032 | .25 |
| 67 | MP1C | X | 122.89 | 5.08 |
| 68 | MP1C | Z | -70.95 | 5.08 |
| 69 | MP1C | Mx | -.032 | 5.08 |
| 70 | MP4C | X | 122.89 | .25 |
| 71 | MP4C | Z | -70.95 | .25 |
| 72 | MP4C | Mx | -.032 | .25 |
| 73 | MP4C | X | 122.89 | 5.08 |
| 74 | MP4C | Z | -70.95 | 5.08 |
| 75 | MP4C | Mx | -.032 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 76 | MP1A | X | 97.008 | .25 |
| 77 | MP1A | Z | -56.008 | .25 |
| 78 | MP1A | Mx | -.125 | .25 |
| 79 | MP1A | X | 97.008 | 5.08 |
| 80 | MP1A | Z | -56.008 | 5.08 |
| 81 | MP1A | Mx | -.125 | 5.08 |
| 82 | MP1B | X | 109.144 | .25 |
| 83 | MP1B | Z | -63.014 | .25 |
| 84 | MP1B | Mx | .16 | .25 |
| 85 | MP1B | X | 109.144 | 5.08 |
| 86 | MP1B | Z | -63.014 | 5.08 |
| 87 | MP1B | Mx | .16 | 5.08 |
| 88 | MP4A | X | 97.008 | .25 |
| 89 | MP4A | Z | -56.008 | .25 |
| 90 | MP4A | Mx | -.125 | .25 |
| 91 | MP4A | X | 97.008 | 5.08 |
| 92 | MP4A | Z | -56.008 | 5.08 |
| 93 | MP4A | Mx | -.125 | 5.08 |
| 94 | MP4B | X | 109.144 | .25 |
| 95 | MP4B | Z | -63.014 | .25 |
| 96 | MP4B | Mx | .16 | .25 |
| 97 | MP4B | X | 109.144 | 5.08 |
| 98 | MP4B | Z | -63.014 | 5.08 |
| 99 | MP4B | Mx | .16 | 5.08 |
| 100 | M103 | X | 72.538 | 1 |
| 101 | M103 | Z | -41.88 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 20.605 | 2.15 |
| 104 | MP3A | Z | -11.896 | 2.15 |
| 105 | MP3A | Mx | -.000859 | 2.15 |
| 106 | MP3A | X | 20.605 | 4.15 |
| 107 | MP3A | Z | -11.896 | 4.15 |
| 108 | MP3A | Mx | -.000859 | 4.15 |
| 109 | MP3B | X | 14.881 | 2.15 |
| 110 | MP3B | Z | -8.592 | 2.15 |
| 111 | MP3B | Mx | .000705 | 2.15 |
| 112 | MP3B | X | 14.881 | 4.15 |
| 113 | MP3B | Z | -8.592 | 4.15 |
| 114 | MP3B | Mx | .000705 | 4.15 |
| 115 | MP3C | X | 39.345 | 2.15 |
| 116 | MP3C | Z | -22.716 | 2.15 |
| 117 | MP3C | Mx | -.000329 | 2.15 |
| 118 | MP3C | X | 39.345 | 4.15 |
| 119 | MP3C | Z | -22.716 | 4.15 |
| 120 | MP3C | Mx | -.000329 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 7.592 | 1 |
| 2 | MP2A | Z | 0 | 1 |
| 3 | MP2A | Mx | .004 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 4 | MP2B | X | 8.989 | 1 |
| 5 | MP2B | Z | 0 | 1 |
| 6 | MP2B | Mx | -.003 | 1 |
| 7 | MP2C | X | 10.578 | 1 |
| 8 | MP2C | Z | 0 | 1 |
| 9 | MP2C | Mx | -.002 | 1 |
| 10 | MP2A | X | 30.844 | 2.5 |
| 11 | MP2A | Z | 0 | 2.5 |
| 12 | MP2A | Mx | .015 | 2.5 |
| 13 | MP2B | X | 37.094 | 2.5 |
| 14 | MP2B | Z | 0 | 2.5 |
| 15 | MP2B | Mx | -.014 | 2.5 |
| 16 | MP2C | X | 44.201 | 2.5 |
| 17 | MP2C | Z | 0 | 2.5 |
| 18 | MP2C | Mx | -.008 | 2.5 |
| 19 | MP3A | X | 25.209 | 2.5 |
| 20 | MP3A | Z | 0 | 2.5 |
| 21 | MP3A | Mx | .013 | 2.5 |
| 22 | MP3B | X | 33.787 | 2.5 |
| 23 | MP3B | Z | 0 | 2.5 |
| 24 | MP3B | Mx | -.013 | 2.5 |
| 25 | MP3C | X | 43.542 | 2.5 |
| 26 | MP3C | Z | 0 | 2.5 |
| 27 | MP3C | Mx | -.007 | 2.5 |
| 28 | MP2A | X | 88.727 | 1.4 |
| 29 | MP2A | Z | 0 | 1.4 |
| 30 | MP2A | Mx | -.1 | 1.4 |
| 31 | MP2A | X | 88.727 | 4.9 |
| 32 | MP2A | Z | 0 | 4.9 |
| 33 | MP2A | Mx | -.1 | 4.9 |
| 34 | MP2B | X | 107.885 | 1.4 |
| 35 | MP2B | Z | 0 | 1.4 |
| 36 | MP2B | Mx | .041 | 1.4 |
| 37 | MP2B | X | 107.885 | 4.9 |
| 38 | MP2B | Z | 0 | 4.9 |
| 39 | MP2B | Mx | .041 | 4.9 |
| 40 | MP2C | X | 129.669 | 1.4 |
| 41 | MP2C | Z | 0 | 1.4 |
| 42 | MP2C | Mx | .141 | 1.4 |
| 43 | MP2C | X | 129.669 | 4.9 |
| 44 | MP2C | Z | 0 | 4.9 |
| 45 | MP2C | Mx | .141 | 4.9 |
| 46 | MP2A | X | 88.727 | 1.4 |
| 47 | MP2A | Z | 0 | 1.4 |
| 48 | MP2A | Mx | -.1 | 1.4 |
| 49 | MP2A | X | 88.727 | 4.9 |
| 50 | MP2A | Z | 0 | 4.9 |
| 51 | MP2A | Mx | -.1 | 4.9 |
| 52 | MP2B | X | 107.885 | 1.4 |
| 53 | MP2B | Z | 0 | 1.4 |
| 54 | MP2B | Mx | .145 | 1.4 |
| 55 | MP2B | X | 107.885 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 56 | MP2B | Z | 0 | 4.9 |
| 57 | MP2B | Mx | .145 | 4.9 |
| 58 | MP2C | X | 129.669 | 1.4 |
| 59 | MP2C | Z | 0 | 1.4 |
| 60 | MP2C | Mx | -.041 | 1.4 |
| 61 | MP2C | X | 129.669 | 4.9 |
| 62 | MP2C | Z | 0 | 4.9 |
| 63 | MP2C | Mx | -.041 | 4.9 |
| 64 | MP1C | X | 140.581 | .25 |
| 65 | MP1C | Z | 0 | .25 |
| 66 | MP1C | Mx | .062 | .25 |
| 67 | MP1C | X | 140.581 | 5.08 |
| 68 | MP1C | Z | 0 | 5.08 |
| 69 | MP1C | Mx | .062 | 5.08 |
| 70 | MP4C | X | 140.581 | .25 |
| 71 | MP4C | Z | 0 | .25 |
| 72 | MP4C | Mx | .062 | .25 |
| 73 | MP4C | X | 140.581 | 5.08 |
| 74 | MP4C | Z | 0 | 5.08 |
| 75 | MP4C | Mx | .062 | 5.08 |
| 76 | MP1A | X | 127.951 | .25 |
| 77 | MP1A | Z | 0 | .25 |
| 78 | MP1A | Mx | -.165 | .25 |
| 79 | MP1A | X | 127.951 | 5.08 |
| 80 | MP1A | Z | 0 | 5.08 |
| 81 | MP1A | Mx | -.165 | 5.08 |
| 82 | MP1B | X | 101.615 | .25 |
| 83 | MP1B | Z | 0 | .25 |
| 84 | MP1B | Mx | .101 | .25 |
| 85 | MP1B | X | 101.615 | 5.08 |
| 86 | MP1B | Z | 0 | 5.08 |
| 87 | MP1B | Mx | .101 | 5.08 |
| 88 | MP4A | X | 127.951 | .25 |
| 89 | MP4A | Z | 0 | .25 |
| 90 | MP4A | Mx | -.165 | .25 |
| 91 | MP4A | X | 127.951 | 5.08 |
| 92 | MP4A | Z | 0 | 5.08 |
| 93 | MP4A | Mx | -.165 | 5.08 |
| 94 | MP4B | X | 101.615 | .25 |
| 95 | MP4B | Z | 0 | .25 |
| 96 | MP4B | Mx | .101 | .25 |
| 97 | MP4B | X | 101.615 | 5.08 |
| 98 | MP4B | Z | 0 | 5.08 |
| 99 | MP4B | Mx | .101 | 5.08 |
| 100 | M103 | X | 73.287 | 1 |
| 101 | M103 | Z | 0 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 16.277 | 2.15 |
| 104 | MP3A | Z | 0 | 2.15 |
| 105 | MP3A | Mx | -.000678 | 2.15 |
| 106 | MP3A | X | 16.277 | 4.15 |
| 107 | MP3A | Z | 0 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 108 | MP3A | Mx | -.000678 | 4.15 |
| 109 | MP3B | X | 28.697 | 2.15 |
| 110 | MP3B | Z | 0 | 2.15 |
| 111 | MP3B | Mx | .000916 | 2.15 |
| 112 | MP3B | X | 28.697 | 4.15 |
| 113 | MP3B | Z | 0 | 4.15 |
| 114 | MP3B | Mx | .000916 | 4.15 |
| 115 | MP3C | X | 42.821 | 2.15 |
| 116 | MP3C | Z | 0 | 2.15 |
| 117 | MP3C | Mx | .00061 | 2.15 |
| 118 | MP3C | X | 42.821 | 4.15 |
| 119 | MP3C | Z | 0 | 4.15 |
| 120 | MP3C | Mx | .00061 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 7.307 | 1 |
| 2 | MP2A | Z | 4.219 | 1 |
| 3 | MP2A | Mx | .004 | 1 |
| 4 | MP2B | X | 9.161 | 1 |
| 5 | MP2B | Z | 5.289 | 1 |
| 6 | MP2B | Mx | -.002 | 1 |
| 7 | MP2C | X | 7.785 | 1 |
| 8 | MP2C | Z | 4.495 | 1 |
| 9 | MP2C | Mx | -.003 | 1 |
| 10 | MP2A | X | 29.987 | 2.5 |
| 11 | MP2A | Z | 17.313 | 2.5 |
| 12 | MP2A | Mx | .015 | 2.5 |
| 13 | MP2B | X | 38.279 | 2.5 |
| 14 | MP2B | Z | 22.1 | 2.5 |
| 15 | MP2B | Mx | -.008 | 2.5 |
| 16 | MP2C | X | 32.124 | 2.5 |
| 17 | MP2C | Z | 18.547 | 2.5 |
| 18 | MP2C | Mx | -.014 | 2.5 |
| 19 | MP3A | X | 26.327 | 2.5 |
| 20 | MP3A | Z | 15.2 | 2.5 |
| 21 | MP3A | Mx | .013 | 2.5 |
| 22 | MP3B | X | 37.708 | 2.5 |
| 23 | MP3B | Z | 21.771 | 2.5 |
| 24 | MP3B | Mx | -.007 | 2.5 |
| 25 | MP3C | X | 29.261 | 2.5 |
| 26 | MP3C | Z | 16.894 | 2.5 |
| 27 | MP3C | Mx | -.013 | 2.5 |
| 28 | MP2A | X | 86.879 | 1.4 |
| 29 | MP2A | Z | 50.159 | 1.4 |
| 30 | MP2A | Mx | -.06 | 1.4 |
| 31 | MP2A | X | 86.879 | 4.9 |
| 32 | MP2A | Z | 50.159 | 4.9 |
| 33 | MP2A | Mx | -.06 | 4.9 |
| 34 | MP2B | X | 112.297 | 1.4 |
| 35 | MP2B | Z | 64.835 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 36 | MP2B | Mx | -.041 | 1.4 |
| 37 | MP2B | X | 112.297 | 4.9 |
| 38 | MP2B | Z | 64.835 | 4.9 |
| 39 | MP2B | Mx | -.041 | 4.9 |
| 40 | MP2C | X | 93.431 | 1.4 |
| 41 | MP2C | Z | 53.942 | 1.4 |
| 42 | MP2C | Mx | .145 | 1.4 |
| 43 | MP2C | X | 93.431 | 4.9 |
| 44 | MP2C | Z | 53.942 | 4.9 |
| 45 | MP2C | Mx | .145 | 4.9 |
| 46 | MP2A | X | 86.879 | 1.4 |
| 47 | MP2A | Z | 50.159 | 1.4 |
| 48 | MP2A | Mx | -.135 | 1.4 |
| 49 | MP2A | X | 86.879 | 4.9 |
| 50 | MP2A | Z | 50.159 | 4.9 |
| 51 | MP2A | Mx | -.135 | 4.9 |
| 52 | MP2B | X | 112.297 | 1.4 |
| 53 | MP2B | Z | 64.835 | 1.4 |
| 54 | MP2B | Mx | .141 | 1.4 |
| 55 | MP2B | X | 112.297 | 4.9 |
| 56 | MP2B | Z | 64.835 | 4.9 |
| 57 | MP2B | Mx | .141 | 4.9 |
| 58 | MP2C | X | 93.431 | 1.4 |
| 59 | MP2C | Z | 53.942 | 1.4 |
| 60 | MP2C | Mx | .041 | 1.4 |
| 61 | MP2C | X | 93.431 | 4.9 |
| 62 | MP2C | Z | 53.942 | 4.9 |
| 63 | MP2C | Mx | .041 | 4.9 |
| 64 | MP1C | X | 115.56 | .25 |
| 65 | MP1C | Z | 66.719 | .25 |
| 66 | MP1C | Mx | .132 | .25 |
| 67 | MP1C | X | 115.56 | 5.08 |
| 68 | MP1C | Z | 66.719 | 5.08 |
| 69 | MP1C | Mx | .132 | 5.08 |
| 70 | MP4C | X | 115.56 | .25 |
| 71 | MP4C | Z | 66.719 | .25 |
| 72 | MP4C | Mx | .132 | .25 |
| 73 | MP4C | X | 115.56 | 5.08 |
| 74 | MP4C | Z | 66.719 | 5.08 |
| 75 | MP4C | Mx | .132 | 5.08 |
| 76 | MP1A | X | 97.008 | .25 |
| 77 | MP1A | Z | 56.008 | .25 |
| 78 | MP1A | Mx | -.125 | .25 |
| 79 | MP1A | X | 97.008 | 5.08 |
| 80 | MP1A | Z | 56.008 | 5.08 |
| 81 | MP1A | Mx | -.125 | 5.08 |
| 82 | MP1B | X | 62.065 | .25 |
| 83 | MP1B | Z | 35.833 | .25 |
| 84 | MP1B | Mx | .032 | .25 |
| 85 | MP1B | X | 62.065 | 5.08 |
| 86 | MP1B | Z | 35.833 | 5.08 |
| 87 | MP1B | Mx | .032 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 88 | MP4A | X | 97.008 | .25 |
| 89 | MP4A | Z | 56.008 | .25 |
| 90 | MP4A | Mx | -.125 | .25 |
| 91 | MP4A | X | 97.008 | 5.08 |
| 92 | MP4A | Z | 56.008 | 5.08 |
| 93 | MP4A | Mx | -.125 | 5.08 |
| 94 | MP4B | X | 62.065 | .25 |
| 95 | MP4B | Z | 35.833 | .25 |
| 96 | MP4B | Mx | .032 | .25 |
| 97 | MP4B | X | 62.065 | 5.08 |
| 98 | MP4B | Z | 35.833 | 5.08 |
| 99 | MP4B | Mx | .032 | 5.08 |
| 100 | M103 | X | 61.792 | 1 |
| 101 | M103 | Z | 35.676 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 20.605 | 2.15 |
| 104 | MP3A | Z | 11.896 | 2.15 |
| 105 | MP3A | Mx | -.000859 | 2.15 |
| 106 | MP3A | X | 20.605 | 4.15 |
| 107 | MP3A | Z | 11.896 | 4.15 |
| 108 | MP3A | Mx | -.000859 | 4.15 |
| 109 | MP3B | X | 37.084 | 2.15 |
| 110 | MP3B | Z | 21.411 | 2.15 |
| 111 | MP3B | Mx | .00061 | 2.15 |
| 112 | MP3B | X | 37.084 | 4.15 |
| 113 | MP3B | Z | 21.411 | 4.15 |
| 114 | MP3B | Mx | .00061 | 4.15 |
| 115 | MP3C | X | 24.853 | 2.15 |
| 116 | MP3C | Z | 14.349 | 2.15 |
| 117 | MP3C | Mx | .000916 | 2.15 |
| 118 | MP3C | X | 24.853 | 4.15 |
| 119 | MP3C | Z | 14.349 | 4.15 |
| 120 | MP3C | Mx | .000916 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 5.064 | 1 |
| 2 | MP2A | Z | 8.771 | 1 |
| 3 | MP2A | Mx | .003 | 1 |
| 4 | MP2B | X | 5.436 | 1 |
| 5 | MP2B | Z | 9.415 | 1 |
| 6 | MP2B | Mx | .000944 | 1 |
| 7 | MP2C | X | 3.847 | 1 |
| 8 | MP2C | Z | 6.664 | 1 |
| 9 | MP2C | Mx | -.004 | 1 |
| 10 | MP2A | X | 21.094 | 2.5 |
| 11 | MP2A | Z | 36.537 | 2.5 |
| 12 | MP2A | Mx | .011 | 2.5 |
| 13 | MP2B | X | 22.757 | 2.5 |
| 14 | MP2B | Z | 39.416 | 2.5 |
| 15 | MP2B | Mx | .004 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 16 | MP2C | X | 15.65 | 2.5 |
| 17 | MP2C | Z | 27.107 | 2.5 |
| 18 | MP2C | Mx | -.015 | 2.5 |
| 19 | MP3A | X | 20.39 | 2.5 |
| 20 | MP3A | Z | 35.317 | 2.5 |
| 21 | MP3A | Mx | .01 | 2.5 |
| 22 | MP3B | X | 22.672 | 2.5 |
| 23 | MP3B | Z | 39.269 | 2.5 |
| 24 | MP3B | Mx | .004 | 2.5 |
| 25 | MP3C | X | 12.918 | 2.5 |
| 26 | MP3C | Z | 22.374 | 2.5 |
| 27 | MP3C | Mx | -.013 | 2.5 |
| 28 | MP2A | X | 61.751 | 1.4 |
| 29 | MP2A | Z | 106.956 | 1.4 |
| 30 | MP2A | Mx | .011 | 1.4 |
| 31 | MP2A | X | 61.751 | 4.9 |
| 32 | MP2A | Z | 106.956 | 4.9 |
| 33 | MP2A | Mx | .011 | 4.9 |
| 34 | MP2B | X | 66.847 | 1.4 |
| 35 | MP2B | Z | 115.783 | 1.4 |
| 36 | MP2B | Mx | -.125 | 1.4 |
| 37 | MP2B | X | 66.847 | 4.9 |
| 38 | MP2B | Z | 115.783 | 4.9 |
| 39 | MP2B | Mx | -.125 | 4.9 |
| 40 | MP2C | X | 45.063 | 1.4 |
| 41 | MP2C | Z | 78.051 | 1.4 |
| 42 | MP2C | Mx | .112 | 1.4 |
| 43 | MP2C | X | 45.063 | 4.9 |
| 44 | MP2C | Z | 78.051 | 4.9 |
| 45 | MP2C | Mx | .112 | 4.9 |
| 46 | MP2A | X | 61.751 | 1.4 |
| 47 | MP2A | Z | 106.956 | 1.4 |
| 48 | MP2A | Mx | -.15 | 1.4 |
| 49 | MP2A | X | 61.751 | 4.9 |
| 50 | MP2A | Z | 106.956 | 4.9 |
| 51 | MP2A | Mx | -.15 | 4.9 |
| 52 | MP2B | X | 66.847 | 1.4 |
| 53 | MP2B | Z | 115.783 | 1.4 |
| 54 | MP2B | Mx | .073 | 1.4 |
| 55 | MP2B | X | 66.847 | 4.9 |
| 56 | MP2B | Z | 115.783 | 4.9 |
| 57 | MP2B | Mx | .073 | 4.9 |
| 58 | MP2C | X | 45.063 | 1.4 |
| 59 | MP2C | Z | 78.051 | 1.4 |
| 60 | MP2C | Mx | .088 | 1.4 |
| 61 | MP2C | X | 45.063 | 4.9 |
| 62 | MP2C | Z | 78.051 | 4.9 |
| 63 | MP2C | Mx | .088 | 4.9 |
| 64 | MP1C | X | 63.807 | .25 |
| 65 | MP1C | Z | 110.517 | .25 |
| 66 | MP1C | Mx | .162 | .25 |
| 67 | MP1C | X | 63.807 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 68 | MP1C | Z | 110.517 | 5.08 |
| 69 | MP1C | Mx | .162 | 5.08 |
| 70 | MP4C | X | 63.807 | .25 |
| 71 | MP4C | Z | 110.517 | .25 |
| 72 | MP4C | Mx | .162 | .25 |
| 73 | MP4C | X | 63.807 | 5.08 |
| 74 | MP4C | Z | 110.517 | 5.08 |
| 75 | MP4C | Mx | .162 | 5.08 |
| 76 | MP1A | X | 40.073 | .25 |
| 77 | MP1A | Z | 69.408 | .25 |
| 78 | MP1A | Mx | -.052 | .25 |
| 79 | MP1A | X | 40.073 | 5.08 |
| 80 | MP1A | Z | 69.408 | 5.08 |
| 81 | MP1A | Mx | -.052 | 5.08 |
| 82 | MP1B | X | 33.066 | .25 |
| 83 | MP1B | Z | 57.272 | .25 |
| 84 | MP1B | Mx | -.015 | .25 |
| 85 | MP1B | X | 33.066 | 5.08 |
| 86 | MP1B | Z | 57.272 | 5.08 |
| 87 | MP1B | Mx | -.015 | 5.08 |
| 88 | MP4A | X | 40.073 | .25 |
| 89 | MP4A | Z | 69.408 | .25 |
| 90 | MP4A | Mx | -.052 | .25 |
| 91 | MP4A | X | 40.073 | 5.08 |
| 92 | MP4A | Z | 69.408 | 5.08 |
| 93 | MP4A | Mx | -.052 | 5.08 |
| 94 | MP4B | X | 33.066 | .25 |
| 95 | MP4B | Z | 57.272 | .25 |
| 96 | MP4B | Mx | -.015 | .25 |
| 97 | MP4B | X | 33.066 | 5.08 |
| 98 | MP4B | Z | 57.272 | 5.08 |
| 99 | MP4B | Mx | -.015 | 5.08 |
| 100 | M103 | X | 39.945 | 1 |
| 101 | M103 | Z | 69.186 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 19.411 | 2.15 |
| 104 | MP3A | Z | 33.621 | 2.15 |
| 105 | MP3A | Mx | -.000809 | 2.15 |
| 106 | MP3A | X | 19.411 | 4.15 |
| 107 | MP3A | Z | 33.621 | 4.15 |
| 108 | MP3A | Mx | -.000809 | 4.15 |
| 109 | MP3B | X | 22.716 | 2.15 |
| 110 | MP3B | Z | 39.345 | 2.15 |
| 111 | MP3B | Mx | -.000329 | 2.15 |
| 112 | MP3B | X | 22.716 | 4.15 |
| 113 | MP3B | Z | 39.345 | 4.15 |
| 114 | MP3B | Mx | -.000329 | 4.15 |
| 115 | MP3C | X | 8.592 | 2.15 |
| 116 | MP3C | Z | 14.881 | 2.15 |
| 117 | MP3C | Mx | .000705 | 2.15 |
| 118 | MP3C | X | 8.592 | 4.15 |
| 119 | MP3C | Z | 14.881 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 120 | MP3C | Mx | .000705 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 1 |
| 2 | MP2A | Z | 10.974 | 1 |
| 3 | MP2A | Mx | 0 | 1 |
| 4 | MP2B | X | 0 | 1 |
| 5 | MP2B | Z | 9.577 | 1 |
| 6 | MP2B | Mx | .003 | 1 |
| 7 | MP2C | X | 0 | 1 |
| 8 | MP2C | Z | 7.988 | 1 |
| 9 | MP2C | Mx | -.004 | 1 |
| 10 | MP2A | X | 0 | 2.5 |
| 11 | MP2A | Z | 45.97 | 2.5 |
| 12 | MP2A | Mx | 0 | 2.5 |
| 13 | MP2B | X | 0 | 2.5 |
| 14 | MP2B | Z | 39.721 | 2.5 |
| 15 | MP2B | Mx | .013 | 2.5 |
| 16 | MP2C | X | 0 | 2.5 |
| 17 | MP2C | Z | 32.614 | 2.5 |
| 18 | MP2C | Mx | -.015 | 2.5 |
| 19 | MP3A | X | 0 | 2.5 |
| 20 | MP3A | Z | 45.97 | 2.5 |
| 21 | MP3A | Mx | 0 | 2.5 |
| 22 | MP3B | X | 0 | 2.5 |
| 23 | MP3B | Z | 37.392 | 2.5 |
| 24 | MP3B | Mx | .012 | 2.5 |
| 25 | MP3C | X | 0 | 2.5 |
| 26 | MP3C | Z | 27.638 | 2.5 |
| 27 | MP3C | Mx | -.013 | 2.5 |
| 28 | MP2A | X | 0 | 1.4 |
| 29 | MP2A | Z | 135.093 | 1.4 |
| 30 | MP2A | Mx | .101 | 1.4 |
| 31 | MP2A | X | 0 | 4.9 |
| 32 | MP2A | Z | 135.093 | 4.9 |
| 33 | MP2A | Mx | .101 | 4.9 |
| 34 | MP2B | X | 0 | 1.4 |
| 35 | MP2B | Z | 115.936 | 1.4 |
| 36 | MP2B | Mx | -.15 | 1.4 |
| 37 | MP2B | X | 0 | 4.9 |
| 38 | MP2B | Z | 115.936 | 4.9 |
| 39 | MP2B | Mx | -.15 | 4.9 |
| 40 | MP2C | X | 0 | 1.4 |
| 41 | MP2C | Z | 94.151 | 1.4 |
| 42 | MP2C | Mx | .075 | 1.4 |
| 43 | MP2C | X | 0 | 4.9 |
| 44 | MP2C | Z | 94.151 | 4.9 |
| 45 | MP2C | Mx | .075 | 4.9 |
| 46 | MP2A | X | 0 | 1.4 |
| 47 | MP2A | Z | 135.093 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 48 | MP2A | Mx | -.101 | 1.4 |
| 49 | MP2A | X | 0 | 4.9 |
| 50 | MP2A | Z | 135.093 | 4.9 |
| 51 | MP2A | Mx | -.101 | 4.9 |
| 52 | MP2B | X | 0 | 1.4 |
| 53 | MP2B | Z | 115.936 | 1.4 |
| 54 | MP2B | Mx | -.017 | 1.4 |
| 55 | MP2B | X | 0 | 4.9 |
| 56 | MP2B | Z | 115.936 | 4.9 |
| 57 | MP2B | Mx | -.017 | 4.9 |
| 58 | MP2C | X | 0 | 1.4 |
| 59 | MP2C | Z | 94.151 | 1.4 |
| 60 | MP2C | Mx | .124 | 1.4 |
| 61 | MP2C | X | 0 | 4.9 |
| 62 | MP2C | Z | 94.151 | 4.9 |
| 63 | MP2C | Mx | .124 | 4.9 |
| 64 | MP1C | X | 0 | .25 |
| 65 | MP1C | Z | 128.934 | .25 |
| 66 | MP1C | Mx | .156 | .25 |
| 67 | MP1C | X | 0 | 5.08 |
| 68 | MP1C | Z | 128.934 | 5.08 |
| 69 | MP1C | Mx | .156 | 5.08 |
| 70 | MP4C | X | 0 | .25 |
| 71 | MP4C | Z | 128.934 | .25 |
| 72 | MP4C | Mx | .156 | .25 |
| 73 | MP4C | X | 0 | 5.08 |
| 74 | MP4C | Z | 128.934 | 5.08 |
| 75 | MP4C | Mx | .156 | 5.08 |
| 76 | MP1A | X | 0 | .25 |
| 77 | MP1A | Z | 64.21 | .25 |
| 78 | MP1A | Mx | 0 | .25 |
| 79 | MP1A | X | 0 | 5.08 |
| 80 | MP1A | Z | 64.21 | 5.08 |
| 81 | MP1A | Mx | 0 | 5.08 |
| 82 | MP1B | X | 0 | .25 |
| 83 | MP1B | Z | 90.546 | .25 |
| 84 | MP1B | Mx | -.075 | .25 |
| 85 | MP1B | X | 0 | 5.08 |
| 86 | MP1B | Z | 90.546 | 5.08 |
| 87 | MP1B | Mx | -.075 | 5.08 |
| 88 | MP4A | X | 0 | .25 |
| 89 | MP4A | Z | 64.21 | .25 |
| 90 | MP4A | Mx | 0 | .25 |
| 91 | MP4A | X | 0 | 5.08 |
| 92 | MP4A | Z | 64.21 | 5.08 |
| 93 | MP4A | Mx | 0 | 5.08 |
| 94 | MP4B | X | 0 | .25 |
| 95 | MP4B | Z | 90.546 | .25 |
| 96 | MP4B | Mx | -.075 | .25 |
| 97 | MP4B | X | 0 | 5.08 |
| 98 | MP4B | Z | 90.546 | 5.08 |
| 99 | MP4B | Mx | -.075 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 100 | M103 | X | 0 | 1 |
| 101 | M103 | Z | 90.361 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 0 | 2.15 |
| 104 | MP3A | Z | 46.338 | 2.15 |
| 105 | MP3A | Mx | 0 | 2.15 |
| 106 | MP3A | X | 0 | 4.15 |
| 107 | MP3A | Z | 46.338 | 4.15 |
| 108 | MP3A | Mx | 0 | 4.15 |
| 109 | MP3B | X | 0 | 2.15 |
| 110 | MP3B | Z | 33.917 | 2.15 |
| 111 | MP3B | Mx | -.000908 | 2.15 |
| 112 | MP3B | X | 0 | 4.15 |
| 113 | MP3B | Z | 33.917 | 4.15 |
| 114 | MP3B | Mx | -.000908 | 4.15 |
| 115 | MP3C | X | 0 | 2.15 |
| 116 | MP3C | Z | 19.793 | 2.15 |
| 117 | MP3C | Mx | .000775 | 2.15 |
| 118 | MP3C | X | 0 | 4.15 |
| 119 | MP3C | Z | 19.793 | 4.15 |
| 120 | MP3C | Mx | .000775 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -5.064 | 1 |
| 2 | MP2A | Z | 8.771 | 1 |
| 3 | MP2A | Mx | -.003 | 1 |
| 4 | MP2B | X | -3.994 | 1 |
| 5 | MP2B | Z | 6.918 | 1 |
| 6 | MP2B | Mx | .004 | 1 |
| 7 | MP2C | X | -4.788 | 1 |
| 8 | MP2C | Z | 8.294 | 1 |
| 9 | MP2C | Mx | -.003 | 1 |
| 10 | MP2A | X | -21.094 | 2.5 |
| 11 | MP2A | Z | 36.537 | 2.5 |
| 12 | MP2A | Mx | -.011 | 2.5 |
| 13 | MP2B | X | -16.307 | 2.5 |
| 14 | MP2B | Z | 28.244 | 2.5 |
| 15 | MP2B | Mx | .015 | 2.5 |
| 16 | MP2C | X | -19.86 | 2.5 |
| 17 | MP2C | Z | 34.399 | 2.5 |
| 18 | MP2C | Mx | -.013 | 2.5 |
| 19 | MP3A | X | -20.39 | 2.5 |
| 20 | MP3A | Z | 35.317 | 2.5 |
| 21 | MP3A | Mx | -.01 | 2.5 |
| 22 | MP3B | X | -13.819 | 2.5 |
| 23 | MP3B | Z | 23.935 | 2.5 |
| 24 | MP3B | Mx | .013 | 2.5 |
| 25 | MP3C | X | -18.696 | 2.5 |
| 26 | MP3C | Z | 32.383 | 2.5 |
| 27 | MP3C | Mx | -.012 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 28 | MP2A | X | -61.751 | 1.4 |
| 29 | MP2A | Z | 106.956 | 1.4 |
| 30 | MP2A | Mx | .15 | 1.4 |
| 31 | MP2A | X | -61.751 | 4.9 |
| 32 | MP2A | Z | 106.956 | 4.9 |
| 33 | MP2A | Mx | .15 | 4.9 |
| 34 | MP2B | X | -47.076 | 1.4 |
| 35 | MP2B | Z | 81.537 | 1.4 |
| 36 | MP2B | Mx | -.124 | 1.4 |
| 37 | MP2B | X | -47.076 | 4.9 |
| 38 | MP2B | Z | 81.537 | 4.9 |
| 39 | MP2B | Mx | -.124 | 4.9 |
| 40 | MP2C | X | -57.968 | 1.4 |
| 41 | MP2C | Z | 100.403 | 1.4 |
| 42 | MP2C | Mx | .017 | 1.4 |
| 43 | MP2C | X | -57.968 | 4.9 |
| 44 | MP2C | Z | 100.403 | 4.9 |
| 45 | MP2C | Mx | .017 | 4.9 |
| 46 | MP2A | X | -61.751 | 1.4 |
| 47 | MP2A | Z | 106.956 | 1.4 |
| 48 | MP2A | Mx | -.011 | 1.4 |
| 49 | MP2A | X | -61.751 | 4.9 |
| 50 | MP2A | Z | 106.956 | 4.9 |
| 51 | MP2A | Mx | -.011 | 4.9 |
| 52 | MP2B | X | -47.076 | 1.4 |
| 53 | MP2B | Z | 81.537 | 1.4 |
| 54 | MP2B | Mx | -.075 | 1.4 |
| 55 | MP2B | X | -47.076 | 4.9 |
| 56 | MP2B | Z | 81.537 | 4.9 |
| 57 | MP2B | Mx | -.075 | 4.9 |
| 58 | MP2C | X | -57.968 | 1.4 |
| 59 | MP2C | Z | 100.403 | 1.4 |
| 60 | MP2C | Mx | .15 | 1.4 |
| 61 | MP2C | X | -57.968 | 4.9 |
| 62 | MP2C | Z | 100.403 | 4.9 |
| 63 | MP2C | Mx | .15 | 4.9 |
| 64 | MP1C | X | -68.039 | .25 |
| 65 | MP1C | Z | 117.847 | .25 |
| 66 | MP1C | Mx | .113 | .25 |
| 67 | MP1C | X | -68.039 | 5.08 |
| 68 | MP1C | Z | 117.847 | 5.08 |
| 69 | MP1C | Mx | .113 | 5.08 |
| 70 | MP4C | X | -68.039 | .25 |
| 71 | MP4C | Z | 117.847 | .25 |
| 72 | MP4C | Mx | .113 | .25 |
| 73 | MP4C | X | -68.039 | 5.08 |
| 74 | MP4C | Z | 117.847 | 5.08 |
| 75 | MP4C | Mx | .113 | 5.08 |
| 76 | MP1A | X | -40.073 | .25 |
| 77 | MP1A | Z | 69.408 | .25 |
| 78 | MP1A | Mx | .052 | .25 |
| 79 | MP1A | X | -40.073 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 80 | MP1A | Z | 69.408 | 5.08 |
| 81 | MP1A | Mx | .052 | 5.08 |
| 82 | MP1B | X | -60.247 | .25 |
| 83 | MP1B | Z | 104.351 | .25 |
| 84 | MP1B | Mx | -.146 | .25 |
| 85 | MP1B | X | -60.247 | 5.08 |
| 86 | MP1B | Z | 104.351 | 5.08 |
| 87 | MP1B | Mx | -.146 | 5.08 |
| 88 | MP4A | X | -40.073 | .25 |
| 89 | MP4A | Z | 69.408 | .25 |
| 90 | MP4A | Mx | .052 | .25 |
| 91 | MP4A | X | -40.073 | 5.08 |
| 92 | MP4A | Z | 69.408 | 5.08 |
| 93 | MP4A | Mx | .052 | 5.08 |
| 94 | MP4B | X | -60.247 | .25 |
| 95 | MP4B | Z | 104.351 | .25 |
| 96 | MP4B | Mx | -.146 | .25 |
| 97 | MP4B | X | -60.247 | 5.08 |
| 98 | MP4B | Z | 104.351 | 5.08 |
| 99 | MP4B | Mx | -.146 | 5.08 |
| 100 | M103 | X | -46.148 | 1 |
| 101 | M103 | Z | 79.931 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -19.411 | 2.15 |
| 104 | MP3A | Z | 33.621 | 2.15 |
| 105 | MP3A | Mx | .000809 | 2.15 |
| 106 | MP3A | X | -19.411 | 4.15 |
| 107 | MP3A | Z | 33.621 | 4.15 |
| 108 | MP3A | Mx | .000809 | 4.15 |
| 109 | MP3B | X | -9.897 | 2.15 |
| 110 | MP3B | Z | 17.142 | 2.15 |
| 111 | MP3B | Mx | -.000775 | 2.15 |
| 112 | MP3B | X | -9.897 | 4.15 |
| 113 | MP3B | Z | 17.142 | 4.15 |
| 114 | MP3B | Mx | -.000775 | 4.15 |
| 115 | MP3C | X | -16.959 | 2.15 |
| 116 | MP3C | Z | 29.373 | 2.15 |
| 117 | MP3C | Mx | .000908 | 2.15 |
| 118 | MP3C | X | -16.959 | 4.15 |
| 119 | MP3C | Z | 29.373 | 4.15 |
| 120 | MP3C | Mx | .000908 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -7.307 | 1 |
| 2 | MP2A | Z | 4.219 | 1 |
| 3 | MP2A | Mx | -.004 | 1 |
| 4 | MP2B | X | -6.664 | 1 |
| 5 | MP2B | Z | 3.847 | 1 |
| 6 | MP2B | Mx | .004 | 1 |
| 7 | MP2C | X | -9.415 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 8 | MP2C | Z | 5.436 | 1 |
| 9 | MP2C | Mx | -.000944 | 1 |
| 10 | MP2A | X | -29.987 | 2.5 |
| 11 | MP2A | Z | 17.313 | 2.5 |
| 12 | MP2A | Mx | -.015 | 2.5 |
| 13 | MP2B | X | -27.107 | 2.5 |
| 14 | MP2B | Z | 15.65 | 2.5 |
| 15 | MP2B | Mx | .015 | 2.5 |
| 16 | MP2C | X | -39.416 | 2.5 |
| 17 | MP2C | Z | 22.757 | 2.5 |
| 18 | MP2C | Mx | -.004 | 2.5 |
| 19 | MP3A | X | -26.327 | 2.5 |
| 20 | MP3A | Z | 15.2 | 2.5 |
| 21 | MP3A | Mx | -.013 | 2.5 |
| 22 | MP3B | X | -22.374 | 2.5 |
| 23 | MP3B | Z | 12.918 | 2.5 |
| 24 | MP3B | Mx | .013 | 2.5 |
| 25 | MP3C | X | -39.269 | 2.5 |
| 26 | MP3C | Z | 22.672 | 2.5 |
| 27 | MP3C | Mx | -.004 | 2.5 |
| 28 | MP2A | X | -86.879 | 1.4 |
| 29 | MP2A | Z | 50.159 | 1.4 |
| 30 | MP2A | Mx | .135 | 1.4 |
| 31 | MP2A | X | -86.879 | 4.9 |
| 32 | MP2A | Z | 50.159 | 4.9 |
| 33 | MP2A | Mx | .135 | 4.9 |
| 34 | MP2B | X | -78.051 | 1.4 |
| 35 | MP2B | Z | 45.063 | 1.4 |
| 36 | MP2B | Mx | -.088 | 1.4 |
| 37 | MP2B | X | -78.051 | 4.9 |
| 38 | MP2B | Z | 45.063 | 4.9 |
| 39 | MP2B | Mx | -.088 | 4.9 |
| 40 | MP2C | X | -115.783 | 1.4 |
| 41 | MP2C | Z | 66.847 | 1.4 |
| 42 | MP2C | Mx | -.073 | 1.4 |
| 43 | MP2C | X | -115.783 | 4.9 |
| 44 | MP2C | Z | 66.847 | 4.9 |
| 45 | MP2C | Mx | -.073 | 4.9 |
| 46 | MP2A | X | -86.879 | 1.4 |
| 47 | MP2A | Z | 50.159 | 1.4 |
| 48 | MP2A | Mx | .06 | 1.4 |
| 49 | MP2A | X | -86.879 | 4.9 |
| 50 | MP2A | Z | 50.159 | 4.9 |
| 51 | MP2A | Mx | .06 | 4.9 |
| 52 | MP2B | X | -78.051 | 1.4 |
| 53 | MP2B | Z | 45.063 | 1.4 |
| 54 | MP2B | Mx | -.112 | 1.4 |
| 55 | MP2B | X | -78.051 | 4.9 |
| 56 | MP2B | Z | 45.063 | 4.9 |
| 57 | MP2B | Mx | -.112 | 4.9 |
| 58 | MP2C | X | -115.783 | 1.4 |
| 59 | MP2C | Z | 66.847 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 60 | MP2C | Mx | .125 | 1.4 |
| 61 | MP2C | X | -115.783 | 4.9 |
| 62 | MP2C | Z | 66.847 | 4.9 |
| 63 | MP2C | Mx | .125 | 4.9 |
| 64 | MP1C | X | -122.89 | .25 |
| 65 | MP1C | Z | 70.95 | .25 |
| 66 | MP1C | Mx | .032 | .25 |
| 67 | MP1C | X | -122.89 | 5.08 |
| 68 | MP1C | Z | 70.95 | 5.08 |
| 69 | MP1C | Mx | .032 | 5.08 |
| 70 | MP4C | X | -122.89 | .25 |
| 71 | MP4C | Z | 70.95 | .25 |
| 72 | MP4C | Mx | .032 | .25 |
| 73 | MP4C | X | -122.89 | 5.08 |
| 74 | MP4C | Z | 70.95 | 5.08 |
| 75 | MP4C | Mx | .032 | 5.08 |
| 76 | MP1A | X | -97.008 | .25 |
| 77 | MP1A | Z | 56.008 | .25 |
| 78 | MP1A | Mx | .125 | .25 |
| 79 | MP1A | X | -97.008 | 5.08 |
| 80 | MP1A | Z | 56.008 | 5.08 |
| 81 | MP1A | Mx | .125 | 5.08 |
| 82 | MP1B | X | -109.144 | .25 |
| 83 | MP1B | Z | 63.014 | .25 |
| 84 | MP1B | Mx | -.16 | .25 |
| 85 | MP1B | X | -109.144 | 5.08 |
| 86 | MP1B | Z | 63.014 | 5.08 |
| 87 | MP1B | Mx | -.16 | 5.08 |
| 88 | MP4A | X | -97.008 | .25 |
| 89 | MP4A | Z | 56.008 | .25 |
| 90 | MP4A | Mx | .125 | .25 |
| 91 | MP4A | X | -97.008 | 5.08 |
| 92 | MP4A | Z | 56.008 | 5.08 |
| 93 | MP4A | Mx | .125 | 5.08 |
| 94 | MP4B | X | -109.144 | .25 |
| 95 | MP4B | Z | 63.014 | .25 |
| 96 | MP4B | Mx | -.16 | .25 |
| 97 | MP4B | X | -109.144 | 5.08 |
| 98 | MP4B | Z | 63.014 | 5.08 |
| 99 | MP4B | Mx | -.16 | 5.08 |
| 100 | M103 | X | -72.538 | 1 |
| 101 | M103 | Z | 41.88 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -20.605 | 2.15 |
| 104 | MP3A | Z | 11.896 | 2.15 |
| 105 | MP3A | Mx | .000859 | 2.15 |
| 106 | MP3A | X | -20.605 | 4.15 |
| 107 | MP3A | Z | 11.896 | 4.15 |
| 108 | MP3A | Mx | .000859 | 4.15 |
| 109 | MP3B | X | -14.881 | 2.15 |
| 110 | MP3B | Z | 8.592 | 2.15 |
| 111 | MP3B | Mx | -.000705 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 112 | MP3B | X | -14.881 | 4.15 |
| 113 | MP3B | Z | 8.592 | 4.15 |
| 114 | MP3B | Mx | -.000705 | 4.15 |
| 115 | MP3C | X | -39.345 | 2.15 |
| 116 | MP3C | Z | 22.716 | 2.15 |
| 117 | MP3C | Mx | .000329 | 2.15 |
| 118 | MP3C | X | -39.345 | 4.15 |
| 119 | MP3C | Z | 22.716 | 4.15 |
| 120 | MP3C | Mx | .000329 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -7.592 | 1 |
| 2 | MP2A | Z | 0 | 1 |
| 3 | MP2A | Mx | -.004 | 1 |
| 4 | MP2B | X | -8.989 | 1 |
| 5 | MP2B | Z | 0 | 1 |
| 6 | MP2B | Mx | .003 | 1 |
| 7 | MP2C | X | -10.578 | 1 |
| 8 | MP2C | Z | 0 | 1 |
| 9 | MP2C | Mx | .002 | 1 |
| 10 | MP2A | X | -30.844 | 2.5 |
| 11 | MP2A | Z | 0 | 2.5 |
| 12 | MP2A | Mx | -.015 | 2.5 |
| 13 | MP2B | X | -37.094 | 2.5 |
| 14 | MP2B | Z | 0 | 2.5 |
| 15 | MP2B | Mx | .014 | 2.5 |
| 16 | MP2C | X | -44.201 | 2.5 |
| 17 | MP2C | Z | 0 | 2.5 |
| 18 | MP2C | Mx | .008 | 2.5 |
| 19 | MP3A | X | -25.209 | 2.5 |
| 20 | MP3A | Z | 0 | 2.5 |
| 21 | MP3A | Mx | -.013 | 2.5 |
| 22 | MP3B | X | -33.787 | 2.5 |
| 23 | MP3B | Z | 0 | 2.5 |
| 24 | MP3B | Mx | .013 | 2.5 |
| 25 | MP3C | X | -43.542 | 2.5 |
| 26 | MP3C | Z | 0 | 2.5 |
| 27 | MP3C | Mx | .007 | 2.5 |
| 28 | MP2A | X | -88.727 | 1.4 |
| 29 | MP2A | Z | 0 | 1.4 |
| 30 | MP2A | Mx | .1 | 1.4 |
| 31 | MP2A | X | -88.727 | 4.9 |
| 32 | MP2A | Z | 0 | 4.9 |
| 33 | MP2A | Mx | .1 | 4.9 |
| 34 | MP2B | X | -107.885 | 1.4 |
| 35 | MP2B | Z | 0 | 1.4 |
| 36 | MP2B | Mx | -.041 | 1.4 |
| 37 | MP2B | X | -107.885 | 4.9 |
| 38 | MP2B | Z | 0 | 4.9 |
| 39 | MP2B | Mx | -.041 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 40 | MP2C | X | -129.669 | 1.4 |
| 41 | MP2C | Z | 0 | 1.4 |
| 42 | MP2C | Mx | -.141 | 1.4 |
| 43 | MP2C | X | -129.669 | 4.9 |
| 44 | MP2C | Z | 0 | 4.9 |
| 45 | MP2C | Mx | -.141 | 4.9 |
| 46 | MP2A | X | -88.727 | 1.4 |
| 47 | MP2A | Z | 0 | 1.4 |
| 48 | MP2A | Mx | .1 | 1.4 |
| 49 | MP2A | X | -88.727 | 4.9 |
| 50 | MP2A | Z | 0 | 4.9 |
| 51 | MP2A | Mx | .1 | 4.9 |
| 52 | MP2B | X | -107.885 | 1.4 |
| 53 | MP2B | Z | 0 | 1.4 |
| 54 | MP2B | Mx | -.145 | 1.4 |
| 55 | MP2B | X | -107.885 | 4.9 |
| 56 | MP2B | Z | 0 | 4.9 |
| 57 | MP2B | Mx | -.145 | 4.9 |
| 58 | MP2C | X | -129.669 | 1.4 |
| 59 | MP2C | Z | 0 | 1.4 |
| 60 | MP2C | Mx | .041 | 1.4 |
| 61 | MP2C | X | -129.669 | 4.9 |
| 62 | MP2C | Z | 0 | 4.9 |
| 63 | MP2C | Mx | .041 | 4.9 |
| 64 | MP1C | X | -140.581 | .25 |
| 65 | MP1C | Z | 0 | .25 |
| 66 | MP1C | Mx | -.062 | .25 |
| 67 | MP1C | X | -140.581 | 5.08 |
| 68 | MP1C | Z | 0 | 5.08 |
| 69 | MP1C | Mx | -.062 | 5.08 |
| 70 | MP4C | X | -140.581 | .25 |
| 71 | MP4C | Z | 0 | .25 |
| 72 | MP4C | Mx | -.062 | .25 |
| 73 | MP4C | X | -140.581 | 5.08 |
| 74 | MP4C | Z | 0 | 5.08 |
| 75 | MP4C | Mx | -.062 | 5.08 |
| 76 | MP1A | X | -127.951 | .25 |
| 77 | MP1A | Z | 0 | .25 |
| 78 | MP1A | Mx | .165 | .25 |
| 79 | MP1A | X | -127.951 | 5.08 |
| 80 | MP1A | Z | 0 | 5.08 |
| 81 | MP1A | Mx | .165 | 5.08 |
| 82 | MP1B | X | -101.615 | .25 |
| 83 | MP1B | Z | 0 | .25 |
| 84 | MP1B | Mx | -.101 | .25 |
| 85 | MP1B | X | -101.615 | 5.08 |
| 86 | MP1B | Z | 0 | 5.08 |
| 87 | MP1B | Mx | -.101 | 5.08 |
| 88 | MP4A | X | -127.951 | .25 |
| 89 | MP4A | Z | 0 | .25 |
| 90 | MP4A | Mx | .165 | .25 |
| 91 | MP4A | X | -127.951 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 92 | MP4A | Z | 0 | 5.08 |
| 93 | MP4A | Mx | .165 | 5.08 |
| 94 | MP4B | X | -101.615 | .25 |
| 95 | MP4B | Z | 0 | .25 |
| 96 | MP4B | Mx | -.101 | .25 |
| 97 | MP4B | X | -101.615 | 5.08 |
| 98 | MP4B | Z | 0 | 5.08 |
| 99 | MP4B | Mx | -.101 | 5.08 |
| 100 | M103 | X | -73.287 | 1 |
| 101 | M103 | Z | 0 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -16.277 | 2.15 |
| 104 | MP3A | Z | 0 | 2.15 |
| 105 | MP3A | Mx | .000678 | 2.15 |
| 106 | MP3A | X | -16.277 | 4.15 |
| 107 | MP3A | Z | 0 | 4.15 |
| 108 | MP3A | Mx | .000678 | 4.15 |
| 109 | MP3B | X | -28.697 | 2.15 |
| 110 | MP3B | Z | 0 | 2.15 |
| 111 | MP3B | Mx | -.000916 | 2.15 |
| 112 | MP3B | X | -28.697 | 4.15 |
| 113 | MP3B | Z | 0 | 4.15 |
| 114 | MP3B | Mx | -.000916 | 4.15 |
| 115 | MP3C | X | -42.821 | 2.15 |
| 116 | MP3C | Z | 0 | 2.15 |
| 117 | MP3C | Mx | -.00061 | 2.15 |
| 118 | MP3C | X | -42.821 | 4.15 |
| 119 | MP3C | Z | 0 | 4.15 |
| 120 | MP3C | Mx | -.00061 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -7.307 | 1 |
| 2 | MP2A | Z | -4.219 | 1 |
| 3 | MP2A | Mx | -.004 | 1 |
| 4 | MP2B | X | -9.161 | 1 |
| 5 | MP2B | Z | -5.289 | 1 |
| 6 | MP2B | Mx | .002 | 1 |
| 7 | MP2C | X | -7.785 | 1 |
| 8 | MP2C | Z | -4.495 | 1 |
| 9 | MP2C | Mx | .003 | 1 |
| 10 | MP2A | X | -29.987 | 2.5 |
| 11 | MP2A | Z | -17.313 | 2.5 |
| 12 | MP2A | Mx | -.015 | 2.5 |
| 13 | MP2B | X | -38.279 | 2.5 |
| 14 | MP2B | Z | -22.1 | 2.5 |
| 15 | MP2B | Mx | .008 | 2.5 |
| 16 | MP2C | X | -32.124 | 2.5 |
| 17 | MP2C | Z | -18.547 | 2.5 |
| 18 | MP2C | Mx | .014 | 2.5 |
| 19 | MP3A | X | -26.327 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 20 | MP3A | Z | -15.2 | 2.5 |
| 21 | MP3A | Mx | -.013 | 2.5 |
| 22 | MP3B | X | -37.708 | 2.5 |
| 23 | MP3B | Z | -21.771 | 2.5 |
| 24 | MP3B | Mx | .007 | 2.5 |
| 25 | MP3C | X | -29.261 | 2.5 |
| 26 | MP3C | Z | -16.894 | 2.5 |
| 27 | MP3C | Mx | .013 | 2.5 |
| 28 | MP2A | X | -86.879 | 1.4 |
| 29 | MP2A | Z | -50.159 | 1.4 |
| 30 | MP2A | Mx | .06 | 1.4 |
| 31 | MP2A | X | -86.879 | 4.9 |
| 32 | MP2A | Z | -50.159 | 4.9 |
| 33 | MP2A | Mx | .06 | 4.9 |
| 34 | MP2B | X | -112.297 | 1.4 |
| 35 | MP2B | Z | -64.835 | 1.4 |
| 36 | MP2B | Mx | .041 | 1.4 |
| 37 | MP2B | X | -112.297 | 4.9 |
| 38 | MP2B | Z | -64.835 | 4.9 |
| 39 | MP2B | Mx | .041 | 4.9 |
| 40 | MP2C | X | -93.431 | 1.4 |
| 41 | MP2C | Z | -53.942 | 1.4 |
| 42 | MP2C | Mx | -.145 | 1.4 |
| 43 | MP2C | X | -93.431 | 4.9 |
| 44 | MP2C | Z | -53.942 | 4.9 |
| 45 | MP2C | Mx | -.145 | 4.9 |
| 46 | MP2A | X | -86.879 | 1.4 |
| 47 | MP2A | Z | -50.159 | 1.4 |
| 48 | MP2A | Mx | .135 | 1.4 |
| 49 | MP2A | X | -86.879 | 4.9 |
| 50 | MP2A | Z | -50.159 | 4.9 |
| 51 | MP2A | Mx | .135 | 4.9 |
| 52 | MP2B | X | -112.297 | 1.4 |
| 53 | MP2B | Z | -64.835 | 1.4 |
| 54 | MP2B | Mx | -.141 | 1.4 |
| 55 | MP2B | X | -112.297 | 4.9 |
| 56 | MP2B | Z | -64.835 | 4.9 |
| 57 | MP2B | Mx | -.141 | 4.9 |
| 58 | MP2C | X | -93.431 | 1.4 |
| 59 | MP2C | Z | -53.942 | 1.4 |
| 60 | MP2C | Mx | -.041 | 1.4 |
| 61 | MP2C | X | -93.431 | 4.9 |
| 62 | MP2C | Z | -53.942 | 4.9 |
| 63 | MP2C | Mx | -.041 | 4.9 |
| 64 | MP1C | X | -115.56 | .25 |
| 65 | MP1C | Z | -66.719 | .25 |
| 66 | MP1C | Mx | -.132 | .25 |
| 67 | MP1C | X | -115.56 | 5.08 |
| 68 | MP1C | Z | -66.719 | 5.08 |
| 69 | MP1C | Mx | -.132 | 5.08 |
| 70 | MP4C | X | -115.56 | .25 |
| 71 | MP4C | Z | -66.719 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft, %] |
|-----|--------------|-----------|--------------------|-----------------|
| 72 | MP4C | Mx | -.132 | .25 |
| 73 | MP4C | X | -115.56 | 5.08 |
| 74 | MP4C | Z | -66.719 | 5.08 |
| 75 | MP4C | Mx | -.132 | 5.08 |
| 76 | MP1A | X | -97.008 | .25 |
| 77 | MP1A | Z | -56.008 | .25 |
| 78 | MP1A | Mx | .125 | .25 |
| 79 | MP1A | X | -97.008 | 5.08 |
| 80 | MP1A | Z | -56.008 | 5.08 |
| 81 | MP1A | Mx | .125 | 5.08 |
| 82 | MP1B | X | -62.065 | .25 |
| 83 | MP1B | Z | -35.833 | .25 |
| 84 | MP1B | Mx | -.032 | .25 |
| 85 | MP1B | X | -62.065 | 5.08 |
| 86 | MP1B | Z | -35.833 | 5.08 |
| 87 | MP1B | Mx | -.032 | 5.08 |
| 88 | MP4A | X | -97.008 | .25 |
| 89 | MP4A | Z | -56.008 | .25 |
| 90 | MP4A | Mx | .125 | .25 |
| 91 | MP4A | X | -97.008 | 5.08 |
| 92 | MP4A | Z | -56.008 | 5.08 |
| 93 | MP4A | Mx | .125 | 5.08 |
| 94 | MP4B | X | -62.065 | .25 |
| 95 | MP4B | Z | -35.833 | .25 |
| 96 | MP4B | Mx | -.032 | .25 |
| 97 | MP4B | X | -62.065 | 5.08 |
| 98 | MP4B | Z | -35.833 | 5.08 |
| 99 | MP4B | Mx | -.032 | 5.08 |
| 100 | M103 | X | -61.792 | 1 |
| 101 | M103 | Z | -35.676 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -20.605 | 2.15 |
| 104 | MP3A | Z | -11.896 | 2.15 |
| 105 | MP3A | Mx | .000859 | 2.15 |
| 106 | MP3A | X | -20.605 | 4.15 |
| 107 | MP3A | Z | -11.896 | 4.15 |
| 108 | MP3A | Mx | .000859 | 4.15 |
| 109 | MP3B | X | -37.084 | 2.15 |
| 110 | MP3B | Z | -21.411 | 2.15 |
| 111 | MP3B | Mx | -.00061 | 2.15 |
| 112 | MP3B | X | -37.084 | 4.15 |
| 113 | MP3B | Z | -21.411 | 4.15 |
| 114 | MP3B | Mx | -.00061 | 4.15 |
| 115 | MP3C | X | -24.853 | 2.15 |
| 116 | MP3C | Z | -14.349 | 2.15 |
| 117 | MP3C | Mx | -.000916 | 2.15 |
| 118 | MP3C | X | -24.853 | 4.15 |
| 119 | MP3C | Z | -14.349 | 4.15 |
| 120 | MP3C | Mx | -.000916 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft, %] |
|--|--------------|-----------|--------------------|-----------------|
|--|--------------|-----------|--------------------|-----------------|

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -5.064 | 1 |
| 2 | MP2A | Z | -8.771 | 1 |
| 3 | MP2A | Mx | -.003 | 1 |
| 4 | MP2B | X | -5.436 | 1 |
| 5 | MP2B | Z | -9.415 | 1 |
| 6 | MP2B | Mx | -.000944 | 1 |
| 7 | MP2C | X | -3.847 | 1 |
| 8 | MP2C | Z | -6.664 | 1 |
| 9 | MP2C | Mx | .004 | 1 |
| 10 | MP2A | X | -21.094 | 2.5 |
| 11 | MP2A | Z | -36.537 | 2.5 |
| 12 | MP2A | Mx | -.011 | 2.5 |
| 13 | MP2B | X | -22.757 | 2.5 |
| 14 | MP2B | Z | -39.416 | 2.5 |
| 15 | MP2B | Mx | -.004 | 2.5 |
| 16 | MP2C | X | -15.65 | 2.5 |
| 17 | MP2C | Z | -27.107 | 2.5 |
| 18 | MP2C | Mx | .015 | 2.5 |
| 19 | MP3A | X | -20.39 | 2.5 |
| 20 | MP3A | Z | -35.317 | 2.5 |
| 21 | MP3A | Mx | -.01 | 2.5 |
| 22 | MP3B | X | -22.672 | 2.5 |
| 23 | MP3B | Z | -39.269 | 2.5 |
| 24 | MP3B | Mx | -.004 | 2.5 |
| 25 | MP3C | X | -12.918 | 2.5 |
| 26 | MP3C | Z | -22.374 | 2.5 |
| 27 | MP3C | Mx | .013 | 2.5 |
| 28 | MP2A | X | -61.751 | 1.4 |
| 29 | MP2A | Z | -106.956 | 1.4 |
| 30 | MP2A | Mx | -.011 | 1.4 |
| 31 | MP2A | X | -61.751 | 4.9 |
| 32 | MP2A | Z | -106.956 | 4.9 |
| 33 | MP2A | Mx | -.011 | 4.9 |
| 34 | MP2B | X | -66.847 | 1.4 |
| 35 | MP2B | Z | -115.783 | 1.4 |
| 36 | MP2B | Mx | .125 | 1.4 |
| 37 | MP2B | X | -66.847 | 4.9 |
| 38 | MP2B | Z | -115.783 | 4.9 |
| 39 | MP2B | Mx | .125 | 4.9 |
| 40 | MP2C | X | -45.063 | 1.4 |
| 41 | MP2C | Z | -78.051 | 1.4 |
| 42 | MP2C | Mx | -.112 | 1.4 |
| 43 | MP2C | X | -45.063 | 4.9 |
| 44 | MP2C | Z | -78.051 | 4.9 |
| 45 | MP2C | Mx | -.112 | 4.9 |
| 46 | MP2A | X | -61.751 | 1.4 |
| 47 | MP2A | Z | -106.956 | 1.4 |
| 48 | MP2A | Mx | .15 | 1.4 |
| 49 | MP2A | X | -61.751 | 4.9 |
| 50 | MP2A | Z | -106.956 | 4.9 |
| 51 | MP2A | Mx | .15 | 4.9 |
| 52 | MP2B | X | -66.847 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 53 | MP2B | Z | -115.783 | 1.4 |
| 54 | MP2B | Mx | -.073 | 1.4 |
| 55 | MP2B | X | -66.847 | 4.9 |
| 56 | MP2B | Z | -115.783 | 4.9 |
| 57 | MP2B | Mx | -.073 | 4.9 |
| 58 | MP2C | X | -45.063 | 1.4 |
| 59 | MP2C | Z | -78.051 | 1.4 |
| 60 | MP2C | Mx | -.088 | 1.4 |
| 61 | MP2C | X | -45.063 | 4.9 |
| 62 | MP2C | Z | -78.051 | 4.9 |
| 63 | MP2C | Mx | -.088 | 4.9 |
| 64 | MP1C | X | -63.807 | .25 |
| 65 | MP1C | Z | -110.517 | .25 |
| 66 | MP1C | Mx | -.162 | .25 |
| 67 | MP1C | X | -63.807 | 5.08 |
| 68 | MP1C | Z | -110.517 | 5.08 |
| 69 | MP1C | Mx | -.162 | 5.08 |
| 70 | MP4C | X | -63.807 | .25 |
| 71 | MP4C | Z | -110.517 | .25 |
| 72 | MP4C | Mx | -.162 | .25 |
| 73 | MP4C | X | -63.807 | 5.08 |
| 74 | MP4C | Z | -110.517 | 5.08 |
| 75 | MP4C | Mx | -.162 | 5.08 |
| 76 | MP1A | X | -40.073 | .25 |
| 77 | MP1A | Z | -69.408 | .25 |
| 78 | MP1A | Mx | .052 | .25 |
| 79 | MP1A | X | -40.073 | 5.08 |
| 80 | MP1A | Z | -69.408 | 5.08 |
| 81 | MP1A | Mx | .052 | 5.08 |
| 82 | MP1B | X | -33.066 | .25 |
| 83 | MP1B | Z | -57.272 | .25 |
| 84 | MP1B | Mx | .015 | .25 |
| 85 | MP1B | X | -33.066 | 5.08 |
| 86 | MP1B | Z | -57.272 | 5.08 |
| 87 | MP1B | Mx | .015 | 5.08 |
| 88 | MP4A | X | -40.073 | .25 |
| 89 | MP4A | Z | -69.408 | .25 |
| 90 | MP4A | Mx | .052 | .25 |
| 91 | MP4A | X | -40.073 | 5.08 |
| 92 | MP4A | Z | -69.408 | 5.08 |
| 93 | MP4A | Mx | .052 | 5.08 |
| 94 | MP4B | X | -33.066 | .25 |
| 95 | MP4B | Z | -57.272 | .25 |
| 96 | MP4B | Mx | .015 | .25 |
| 97 | MP4B | X | -33.066 | 5.08 |
| 98 | MP4B | Z | -57.272 | 5.08 |
| 99 | MP4B | Mx | .015 | 5.08 |
| 100 | M103 | X | -39.945 | 1 |
| 101 | M103 | Z | -69.186 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -19.411 | 2.15 |
| 104 | MP3A | Z | -33.621 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 105 | MP3A | Mx | .000809 | 2.15 |
| 106 | MP3A | X | -19.411 | 4.15 |
| 107 | MP3A | Z | -33.621 | 4.15 |
| 108 | MP3A | Mx | .000809 | 4.15 |
| 109 | MP3B | X | -22.716 | 2.15 |
| 110 | MP3B | Z | -39.345 | 2.15 |
| 111 | MP3B | Mx | .000329 | 2.15 |
| 112 | MP3B | X | -22.716 | 4.15 |
| 113 | MP3B | Z | -39.345 | 4.15 |
| 114 | MP3B | Mx | .000329 | 4.15 |
| 115 | MP3C | X | -8.592 | 2.15 |
| 116 | MP3C | Z | -14.881 | 2.15 |
| 117 | MP3C | Mx | -.000705 | 2.15 |
| 118 | MP3C | X | -8.592 | 4.15 |
| 119 | MP3C | Z | -14.881 | 4.15 |
| 120 | MP3C | Mx | -.000705 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 1 |
| 2 | MP2A | Z | -3.038 | 1 |
| 3 | MP2A | Mx | 0 | 1 |
| 4 | MP2B | X | 0 | 1 |
| 5 | MP2B | Z | -2.724 | 1 |
| 6 | MP2B | Mx | -.000875 | 1 |
| 7 | MP2C | X | 0 | 1 |
| 8 | MP2C | Z | -2.368 | 1 |
| 9 | MP2C | Mx | .001 | 1 |
| 10 | MP2A | X | 0 | 2.5 |
| 11 | MP2A | Z | -12.531 | 2.5 |
| 12 | MP2A | Mx | 0 | 2.5 |
| 13 | MP2B | X | 0 | 2.5 |
| 14 | MP2B | Z | -10.954 | 2.5 |
| 15 | MP2B | Mx | -.004 | 2.5 |
| 16 | MP2C | X | 0 | 2.5 |
| 17 | MP2C | Z | -9.161 | 2.5 |
| 18 | MP2C | Mx | .004 | 2.5 |
| 19 | MP3A | X | 0 | 2.5 |
| 20 | MP3A | Z | -12.531 | 2.5 |
| 21 | MP3A | Mx | 0 | 2.5 |
| 22 | MP3B | X | 0 | 2.5 |
| 23 | MP3B | Z | -10.355 | 2.5 |
| 24 | MP3B | Mx | -.003 | 2.5 |
| 25 | MP3C | X | 0 | 2.5 |
| 26 | MP3C | Z | -7.88 | 2.5 |
| 27 | MP3C | Mx | .004 | 2.5 |
| 28 | MP2A | X | 0 | 1.4 |
| 29 | MP2A | Z | -27.969 | 1.4 |
| 30 | MP2A | Mx | -.021 | 1.4 |
| 31 | MP2A | X | 0 | 4.9 |
| 32 | MP2A | Z | -27.969 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A | Mx | -.021 | 4.9 |
| 34 | MP2B | X | 0 | 1.4 |
| 35 | MP2B | Z | -24.294 | 1.4 |
| 36 | MP2B | Mx | .032 | 1.4 |
| 37 | MP2B | X | 0 | 4.9 |
| 38 | MP2B | Z | -24.294 | 4.9 |
| 39 | MP2B | Mx | .032 | 4.9 |
| 40 | MP2C | X | 0 | 1.4 |
| 41 | MP2C | Z | -20.115 | 1.4 |
| 42 | MP2C | Mx | -.016 | 1.4 |
| 43 | MP2C | X | 0 | 4.9 |
| 44 | MP2C | Z | -20.115 | 4.9 |
| 45 | MP2C | Mx | -.016 | 4.9 |
| 46 | MP2A | X | 0 | 1.4 |
| 47 | MP2A | Z | -27.969 | 1.4 |
| 48 | MP2A | Mx | .021 | 1.4 |
| 49 | MP2A | X | 0 | 4.9 |
| 50 | MP2A | Z | -27.969 | 4.9 |
| 51 | MP2A | Mx | .021 | 4.9 |
| 52 | MP2B | X | 0 | 1.4 |
| 53 | MP2B | Z | -24.294 | 1.4 |
| 54 | MP2B | Mx | .004 | 1.4 |
| 55 | MP2B | X | 0 | 4.9 |
| 56 | MP2B | Z | -24.294 | 4.9 |
| 57 | MP2B | Mx | .004 | 4.9 |
| 58 | MP2C | X | 0 | 1.4 |
| 59 | MP2C | Z | -20.115 | 1.4 |
| 60 | MP2C | Mx | -.026 | 1.4 |
| 61 | MP2C | X | 0 | 4.9 |
| 62 | MP2C | Z | -20.115 | 4.9 |
| 63 | MP2C | Mx | -.026 | 4.9 |
| 64 | MP1C | X | 0 | .25 |
| 65 | MP1C | Z | -26.744 | .25 |
| 66 | MP1C | Mx | -.032 | .25 |
| 67 | MP1C | X | 0 | 5.08 |
| 68 | MP1C | Z | -26.744 | 5.08 |
| 69 | MP1C | Mx | -.032 | 5.08 |
| 70 | MP4C | X | 0 | .25 |
| 71 | MP4C | Z | -26.744 | .25 |
| 72 | MP4C | Mx | -.032 | .25 |
| 73 | MP4C | X | 0 | 5.08 |
| 74 | MP4C | Z | -26.744 | 5.08 |
| 75 | MP4C | Mx | -.032 | 5.08 |
| 76 | MP1A | X | 0 | .25 |
| 77 | MP1A | Z | -14.231 | .25 |
| 78 | MP1A | Mx | 0 | .25 |
| 79 | MP1A | X | 0 | 5.08 |
| 80 | MP1A | Z | -14.231 | 5.08 |
| 81 | MP1A | Mx | 0 | 5.08 |
| 82 | MP1B | X | 0 | .25 |
| 83 | MP1B | Z | -19.323 | .25 |
| 84 | MP1B | Mx | .016 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 85 | MP1B | X | 0 | 5.08 |
| 86 | MP1B | Z | -19.323 | 5.08 |
| 87 | MP1B | Mx | .016 | 5.08 |
| 88 | MP4A | X | 0 | .25 |
| 89 | MP4A | Z | -14.231 | .25 |
| 90 | MP4A | Mx | 0 | .25 |
| 91 | MP4A | X | 0 | 5.08 |
| 92 | MP4A | Z | -14.231 | 5.08 |
| 93 | MP4A | Mx | 0 | 5.08 |
| 94 | MP4B | X | 0 | .25 |
| 95 | MP4B | Z | -19.323 | .25 |
| 96 | MP4B | Mx | .016 | .25 |
| 97 | MP4B | X | 0 | 5.08 |
| 98 | MP4B | Z | -19.323 | 5.08 |
| 99 | MP4B | Mx | .016 | 5.08 |
| 100 | M103 | X | 0 | 1 |
| 101 | M103 | Z | -24.811 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 0 | 2.15 |
| 104 | MP3A | Z | -11.995 | 2.15 |
| 105 | MP3A | Mx | 0 | 2.15 |
| 106 | MP3A | X | 0 | 4.15 |
| 107 | MP3A | Z | -11.995 | 4.15 |
| 108 | MP3A | Mx | 0 | 4.15 |
| 109 | MP3B | X | 0 | 2.15 |
| 110 | MP3B | Z | -9.129 | 2.15 |
| 111 | MP3B | Mx | .000245 | 2.15 |
| 112 | MP3B | X | 0 | 4.15 |
| 113 | MP3B | Z | -9.129 | 4.15 |
| 114 | MP3B | Mx | .000245 | 4.15 |
| 115 | MP3C | X | 0 | 2.15 |
| 116 | MP3C | Z | -5.871 | 2.15 |
| 117 | MP3C | Mx | -.00023 | 2.15 |
| 118 | MP3C | X | 0 | 4.15 |
| 119 | MP3C | Z | -5.871 | 4.15 |
| 120 | MP3C | Mx | -.00023 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 1.424 | 1 |
| 2 | MP2A | Z | -2.467 | 1 |
| 3 | MP2A | Mx | .000712 | 1 |
| 4 | MP2B | X | 1.184 | 1 |
| 5 | MP2B | Z | -2.05 | 1 |
| 6 | MP2B | Mx | -.001 | 1 |
| 7 | MP2C | X | 1.362 | 1 |
| 8 | MP2C | Z | -2.359 | 1 |
| 9 | MP2C | Mx | .000875 | 1 |
| 10 | MP2A | X | 5.788 | 2.5 |
| 11 | MP2A | Z | -10.026 | 2.5 |
| 12 | MP2A | Mx | .003 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP2B | X | 4.58 | 2.5 |
| 14 | MP2B | Z | -7.934 | 2.5 |
| 15 | MP2B | Mx | -.004 | 2.5 |
| 16 | MP2C | X | 5.477 | 2.5 |
| 17 | MP2C | Z | -9.487 | 2.5 |
| 18 | MP2C | Mx | .004 | 2.5 |
| 19 | MP3A | X | 5.607 | 2.5 |
| 20 | MP3A | Z | -9.712 | 2.5 |
| 21 | MP3A | Mx | .003 | 2.5 |
| 22 | MP3B | X | 3.94 | 2.5 |
| 23 | MP3B | Z | -6.824 | 2.5 |
| 24 | MP3B | Mx | -.004 | 2.5 |
| 25 | MP3C | X | 5.177 | 2.5 |
| 26 | MP3C | Z | -8.968 | 2.5 |
| 27 | MP3C | Mx | .003 | 2.5 |
| 28 | MP2A | X | 12.873 | 1.4 |
| 29 | MP2A | Z | -22.296 | 1.4 |
| 30 | MP2A | Mx | -.031 | 1.4 |
| 31 | MP2A | X | 12.873 | 4.9 |
| 32 | MP2A | Z | -22.296 | 4.9 |
| 33 | MP2A | Mx | -.031 | 4.9 |
| 34 | MP2B | X | 10.058 | 1.4 |
| 35 | MP2B | Z | -17.42 | 1.4 |
| 36 | MP2B | Mx | .026 | 1.4 |
| 37 | MP2B | X | 10.058 | 4.9 |
| 38 | MP2B | Z | -17.42 | 4.9 |
| 39 | MP2B | Mx | .026 | 4.9 |
| 40 | MP2C | X | 12.147 | 1.4 |
| 41 | MP2C | Z | -21.039 | 1.4 |
| 42 | MP2C | Mx | -.004 | 1.4 |
| 43 | MP2C | X | 12.147 | 4.9 |
| 44 | MP2C | Z | -21.039 | 4.9 |
| 45 | MP2C | Mx | -.004 | 4.9 |
| 46 | MP2A | X | 12.873 | 1.4 |
| 47 | MP2A | Z | -22.296 | 1.4 |
| 48 | MP2A | Mx | .002 | 1.4 |
| 49 | MP2A | X | 12.873 | 4.9 |
| 50 | MP2A | Z | -22.296 | 4.9 |
| 51 | MP2A | Mx | .002 | 4.9 |
| 52 | MP2B | X | 10.058 | 1.4 |
| 53 | MP2B | Z | -17.42 | 1.4 |
| 54 | MP2B | Mx | .016 | 1.4 |
| 55 | MP2B | X | 10.058 | 4.9 |
| 56 | MP2B | Z | -17.42 | 4.9 |
| 57 | MP2B | Mx | .016 | 4.9 |
| 58 | MP2C | X | 12.147 | 1.4 |
| 59 | MP2C | Z | -21.039 | 1.4 |
| 60 | MP2C | Mx | -.032 | 1.4 |
| 61 | MP2C | X | 12.147 | 4.9 |
| 62 | MP2C | Z | -21.039 | 4.9 |
| 63 | MP2C | Mx | -.032 | 4.9 |
| 64 | MP1C | X | 14.064 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 65 | MP1C | Z | -24.36 | .25 |
| 66 | MP1C | Mx | -.023 | .25 |
| 67 | MP1C | X | 14.064 | 5.08 |
| 68 | MP1C | Z | -24.36 | 5.08 |
| 69 | MP1C | Mx | -.023 | 5.08 |
| 70 | MP4C | X | 14.064 | .25 |
| 71 | MP4C | Z | -24.36 | .25 |
| 72 | MP4C | Mx | -.023 | .25 |
| 73 | MP4C | X | 14.064 | 5.08 |
| 74 | MP4C | Z | -24.36 | 5.08 |
| 75 | MP4C | Mx | -.023 | 5.08 |
| 76 | MP1A | X | 8.656 | .25 |
| 77 | MP1A | Z | -14.992 | .25 |
| 78 | MP1A | Mx | -.011 | .25 |
| 79 | MP1A | X | 8.656 | 5.08 |
| 80 | MP1A | Z | -14.992 | 5.08 |
| 81 | MP1A | Mx | -.011 | 5.08 |
| 82 | MP1B | X | 12.556 | .25 |
| 83 | MP1B | Z | -21.748 | .25 |
| 84 | MP1B | Mx | .03 | .25 |
| 85 | MP1B | X | 12.556 | 5.08 |
| 86 | MP1B | Z | -21.748 | 5.08 |
| 87 | MP1B | Mx | .03 | 5.08 |
| 88 | MP4A | X | 8.656 | .25 |
| 89 | MP4A | Z | -14.992 | .25 |
| 90 | MP4A | Mx | -.011 | .25 |
| 91 | MP4A | X | 8.656 | 5.08 |
| 92 | MP4A | Z | -14.992 | 5.08 |
| 93 | MP4A | Mx | -.011 | 5.08 |
| 94 | MP4B | X | 12.556 | .25 |
| 95 | MP4B | Z | -21.748 | .25 |
| 96 | MP4B | Mx | .03 | .25 |
| 97 | MP4B | X | 12.556 | 5.08 |
| 98 | MP4B | Z | -21.748 | 5.08 |
| 99 | MP4B | Mx | .03 | 5.08 |
| 100 | M103 | X | 12.647 | 1 |
| 101 | M103 | Z | -21.905 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 5.13 | 2.15 |
| 104 | MP3A | Z | -8.886 | 2.15 |
| 105 | MP3A | Mx | -.000214 | 2.15 |
| 106 | MP3A | X | 5.13 | 4.15 |
| 107 | MP3A | Z | -8.886 | 4.15 |
| 108 | MP3A | Mx | -.000214 | 4.15 |
| 109 | MP3B | X | 2.936 | 2.15 |
| 110 | MP3B | Z | -5.085 | 2.15 |
| 111 | MP3B | Mx | .00023 | 2.15 |
| 112 | MP3B | X | 2.936 | 4.15 |
| 113 | MP3B | Z | -5.085 | 4.15 |
| 114 | MP3B | Mx | .00023 | 4.15 |
| 115 | MP3C | X | 4.565 | 2.15 |
| 116 | MP3C | Z | -7.906 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 117 | MP3C | Mx | -.000244 | 2.15 |
| 118 | MP3C | X | 4.565 | 4.15 |
| 119 | MP3C | Z | -7.906 | 4.15 |
| 120 | MP3C | Mx | -.000244 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 2.138 | 1 |
| 2 | MP2A | Z | -1.234 | 1 |
| 3 | MP2A | Mx | .001 | 1 |
| 4 | MP2B | X | 1.993 | 1 |
| 5 | MP2B | Z | -1.151 | 1 |
| 6 | MP2B | Mx | -.001 | 1 |
| 7 | MP2C | X | 2.611 | 1 |
| 8 | MP2C | Z | -1.508 | 1 |
| 9 | MP2C | Mx | .000262 | 1 |
| 10 | MP2A | X | 8.373 | 2.5 |
| 11 | MP2A | Z | -4.834 | 2.5 |
| 12 | MP2A | Mx | .004 | 2.5 |
| 13 | MP2B | X | 7.647 | 2.5 |
| 14 | MP2B | Z | -4.415 | 2.5 |
| 15 | MP2B | Mx | -.004 | 2.5 |
| 16 | MP2C | X | 10.753 | 2.5 |
| 17 | MP2C | Z | -6.208 | 2.5 |
| 18 | MP2C | Mx | .001 | 2.5 |
| 19 | MP3A | X | 7.431 | 2.5 |
| 20 | MP3A | Z | -4.29 | 2.5 |
| 21 | MP3A | Mx | .004 | 2.5 |
| 22 | MP3B | X | 6.428 | 2.5 |
| 23 | MP3B | Z | -3.711 | 2.5 |
| 24 | MP3B | Mx | -.004 | 2.5 |
| 25 | MP3C | X | 10.715 | 2.5 |
| 26 | MP3C | Z | -6.186 | 2.5 |
| 27 | MP3C | Mx | .001 | 2.5 |
| 28 | MP2A | X | 18.445 | 1.4 |
| 29 | MP2A | Z | -10.649 | 1.4 |
| 30 | MP2A | Mx | -.029 | 1.4 |
| 31 | MP2A | X | 18.445 | 4.9 |
| 32 | MP2A | Z | -10.649 | 4.9 |
| 33 | MP2A | Mx | -.029 | 4.9 |
| 34 | MP2B | X | 16.751 | 1.4 |
| 35 | MP2B | Z | -9.671 | 1.4 |
| 36 | MP2B | Mx | .019 | 1.4 |
| 37 | MP2B | X | 16.751 | 4.9 |
| 38 | MP2B | Z | -9.671 | 4.9 |
| 39 | MP2B | Mx | .019 | 4.9 |
| 40 | MP2C | X | 23.989 | 1.4 |
| 41 | MP2C | Z | -13.85 | 1.4 |
| 42 | MP2C | Mx | .015 | 1.4 |
| 43 | MP2C | X | 23.989 | 4.9 |
| 44 | MP2C | Z | -13.85 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 45 | MP2C | Mx | .015 | 4.9 |
| 46 | MP2A | X | 18.445 | 1.4 |
| 47 | MP2A | Z | -10.649 | 1.4 |
| 48 | MP2A | Mx | -.013 | 1.4 |
| 49 | MP2A | X | 18.445 | 4.9 |
| 50 | MP2A | Z | -10.649 | 4.9 |
| 51 | MP2A | Mx | -.013 | 4.9 |
| 52 | MP2B | X | 16.751 | 1.4 |
| 53 | MP2B | Z | -9.671 | 1.4 |
| 54 | MP2B | Mx | .024 | 1.4 |
| 55 | MP2B | X | 16.751 | 4.9 |
| 56 | MP2B | Z | -9.671 | 4.9 |
| 57 | MP2B | Mx | .024 | 4.9 |
| 58 | MP2C | X | 23.989 | 1.4 |
| 59 | MP2C | Z | -13.85 | 1.4 |
| 60 | MP2C | Mx | -.026 | 1.4 |
| 61 | MP2C | X | 23.989 | 4.9 |
| 62 | MP2C | Z | -13.85 | 4.9 |
| 63 | MP2C | Mx | -.026 | 4.9 |
| 64 | MP1C | X | 25.337 | .25 |
| 65 | MP1C | Z | -14.629 | .25 |
| 66 | MP1C | Mx | -.007 | .25 |
| 67 | MP1C | X | 25.337 | 5.08 |
| 68 | MP1C | Z | -14.629 | 5.08 |
| 69 | MP1C | Mx | -.007 | 5.08 |
| 70 | MP4C | X | 25.337 | .25 |
| 71 | MP4C | Z | -14.629 | .25 |
| 72 | MP4C | Mx | -.007 | .25 |
| 73 | MP4C | X | 25.337 | 5.08 |
| 74 | MP4C | Z | -14.629 | 5.08 |
| 75 | MP4C | Mx | -.007 | 5.08 |
| 76 | MP1A | X | 20.329 | .25 |
| 77 | MP1A | Z | -11.737 | .25 |
| 78 | MP1A | Mx | -.026 | .25 |
| 79 | MP1A | X | 20.329 | 5.08 |
| 80 | MP1A | Z | -11.737 | 5.08 |
| 81 | MP1A | Mx | -.026 | 5.08 |
| 82 | MP1B | X | 22.675 | .25 |
| 83 | MP1B | Z | -13.091 | .25 |
| 84 | MP1B | Mx | .033 | .25 |
| 85 | MP1B | X | 22.675 | 5.08 |
| 86 | MP1B | Z | -13.091 | 5.08 |
| 87 | MP1B | Mx | .033 | 5.08 |
| 88 | MP4A | X | 20.329 | .25 |
| 89 | MP4A | Z | -11.737 | .25 |
| 90 | MP4A | Mx | -.026 | .25 |
| 91 | MP4A | X | 20.329 | 5.08 |
| 92 | MP4A | Z | -11.737 | 5.08 |
| 93 | MP4A | Mx | -.026 | 5.08 |
| 94 | MP4B | X | 22.675 | .25 |
| 95 | MP4B | Z | -13.091 | .25 |
| 96 | MP4B | Mx | .033 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 97 | MP4B | X | 22.675 | 5.08 |
| 98 | MP4B | Z | -13.091 | 5.08 |
| 99 | MP4B | Mx | .033 | 5.08 |
| 100 | M103 | X | 20.062 | 1 |
| 101 | M103 | Z | -11.583 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 5.883 | 2.15 |
| 104 | MP3A | Z | -3.397 | 2.15 |
| 105 | MP3A | Mx | -.000245 | 2.15 |
| 106 | MP3A | X | 5.883 | 4.15 |
| 107 | MP3A | Z | -3.397 | 4.15 |
| 108 | MP3A | Mx | -.000245 | 4.15 |
| 109 | MP3B | X | 4.563 | 2.15 |
| 110 | MP3B | Z | -2.635 | 2.15 |
| 111 | MP3B | Mx | .000216 | 2.15 |
| 112 | MP3B | X | 4.563 | 4.15 |
| 113 | MP3B | Z | -2.635 | 4.15 |
| 114 | MP3B | Mx | .000216 | 4.15 |
| 115 | MP3C | X | 10.206 | 2.15 |
| 116 | MP3C | Z | -5.893 | 2.15 |
| 117 | MP3C | Mx | -8.5e-5 | 2.15 |
| 118 | MP3C | X | 10.206 | 4.15 |
| 119 | MP3C | Z | -5.893 | 4.15 |
| 120 | MP3C | Mx | -8.5e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 2.279 | 1 |
| 2 | MP2A | Z | 0 | 1 |
| 3 | MP2A | Mx | .001 | 1 |
| 4 | MP2B | X | 2.593 | 1 |
| 5 | MP2B | Z | 0 | 1 |
| 6 | MP2B | Mx | -.000993 | 1 |
| 7 | MP2C | X | 2.949 | 1 |
| 8 | MP2C | Z | 0 | 1 |
| 9 | MP2C | Mx | -.000504 | 1 |
| 10 | MP2A | X | 8.714 | 2.5 |
| 11 | MP2A | Z | 0 | 2.5 |
| 12 | MP2A | Mx | .004 | 2.5 |
| 13 | MP2B | X | 10.291 | 2.5 |
| 14 | MP2B | Z | 0 | 2.5 |
| 15 | MP2B | Mx | -.004 | 2.5 |
| 16 | MP2C | X | 12.085 | 2.5 |
| 17 | MP2C | Z | 0 | 2.5 |
| 18 | MP2C | Mx | -.002 | 2.5 |
| 19 | MP3A | X | 7.264 | 2.5 |
| 20 | MP3A | Z | 0 | 2.5 |
| 21 | MP3A | Mx | .004 | 2.5 |
| 22 | MP3B | X | 9.44 | 2.5 |
| 23 | MP3B | Z | 0 | 2.5 |
| 24 | MP3B | Mx | -.004 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP3C | X | 11.915 | 2.5 |
| 26 | MP3C | Z | 0 | 2.5 |
| 27 | MP3C | Mx | -.002 | 2.5 |
| 28 | MP2A | X | 19.075 | 1.4 |
| 29 | MP2A | Z | 0 | 1.4 |
| 30 | MP2A | Mx | -.021 | 1.4 |
| 31 | MP2A | X | 19.075 | 4.9 |
| 32 | MP2A | Z | 0 | 4.9 |
| 33 | MP2A | Mx | -.021 | 4.9 |
| 34 | MP2B | X | 22.749 | 1.4 |
| 35 | MP2B | Z | 0 | 1.4 |
| 36 | MP2B | Mx | .009 | 1.4 |
| 37 | MP2B | X | 22.749 | 4.9 |
| 38 | MP2B | Z | 0 | 4.9 |
| 39 | MP2B | Mx | .009 | 4.9 |
| 40 | MP2C | X | 26.928 | 1.4 |
| 41 | MP2C | Z | 0 | 1.4 |
| 42 | MP2C | Mx | .029 | 1.4 |
| 43 | MP2C | X | 26.928 | 4.9 |
| 44 | MP2C | Z | 0 | 4.9 |
| 45 | MP2C | Mx | .029 | 4.9 |
| 46 | MP2A | X | 19.075 | 1.4 |
| 47 | MP2A | Z | 0 | 1.4 |
| 48 | MP2A | Mx | -.021 | 1.4 |
| 49 | MP2A | X | 19.075 | 4.9 |
| 50 | MP2A | Z | 0 | 4.9 |
| 51 | MP2A | Mx | -.021 | 4.9 |
| 52 | MP2B | X | 22.749 | 1.4 |
| 53 | MP2B | Z | 0 | 1.4 |
| 54 | MP2B | Mx | .031 | 1.4 |
| 55 | MP2B | X | 22.749 | 4.9 |
| 56 | MP2B | Z | 0 | 4.9 |
| 57 | MP2B | Mx | .031 | 4.9 |
| 58 | MP2C | X | 26.928 | 1.4 |
| 59 | MP2C | Z | 0 | 1.4 |
| 60 | MP2C | Mx | -.009 | 1.4 |
| 61 | MP2C | X | 26.928 | 4.9 |
| 62 | MP2C | Z | 0 | 4.9 |
| 63 | MP2C | Mx | -.009 | 4.9 |
| 64 | MP1C | X | 29.001 | .25 |
| 65 | MP1C | Z | 0 | .25 |
| 66 | MP1C | Mx | .013 | .25 |
| 67 | MP1C | X | 29.001 | 5.08 |
| 68 | MP1C | Z | 0 | 5.08 |
| 69 | MP1C | Mx | .013 | 5.08 |
| 70 | MP4C | X | 29.001 | .25 |
| 71 | MP4C | Z | 0 | .25 |
| 72 | MP4C | Mx | .013 | .25 |
| 73 | MP4C | X | 29.001 | 5.08 |
| 74 | MP4C | Z | 0 | 5.08 |
| 75 | MP4C | Mx | .013 | 5.08 |
| 76 | MP1A | X | 26.554 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 77 | MP1A | Z | 0 | .25 |
| 78 | MP1A | Mx | -.034 | .25 |
| 79 | MP1A | X | 26.554 | 5.08 |
| 80 | MP1A | Z | 0 | 5.08 |
| 81 | MP1A | Mx | -.034 | 5.08 |
| 82 | MP1B | X | 21.463 | .25 |
| 83 | MP1B | Z | 0 | .25 |
| 84 | MP1B | Mx | .021 | .25 |
| 85 | MP1B | X | 21.463 | 5.08 |
| 86 | MP1B | Z | 0 | 5.08 |
| 87 | MP1B | Mx | .021 | 5.08 |
| 88 | MP4A | X | 26.554 | .25 |
| 89 | MP4A | Z | 0 | .25 |
| 90 | MP4A | Mx | -.034 | .25 |
| 91 | MP4A | X | 26.554 | 5.08 |
| 92 | MP4A | Z | 0 | 5.08 |
| 93 | MP4A | Mx | -.034 | 5.08 |
| 94 | MP4B | X | 21.463 | .25 |
| 95 | MP4B | Z | 0 | .25 |
| 96 | MP4B | Mx | .021 | .25 |
| 97 | MP4B | X | 21.463 | 5.08 |
| 98 | MP4B | Z | 0 | 5.08 |
| 99 | MP4B | Mx | .021 | 5.08 |
| 100 | M103 | X | 20.556 | 1 |
| 101 | M103 | Z | 0 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 5.06 | 2.15 |
| 104 | MP3A | Z | 0 | 2.15 |
| 105 | MP3A | Mx | -.000211 | 2.15 |
| 106 | MP3A | X | 5.06 | 4.15 |
| 107 | MP3A | Z | 0 | 4.15 |
| 108 | MP3A | Mx | -.000211 | 4.15 |
| 109 | MP3B | X | 7.925 | 2.15 |
| 110 | MP3B | Z | 0 | 2.15 |
| 111 | MP3B | Mx | .000253 | 2.15 |
| 112 | MP3B | X | 7.925 | 4.15 |
| 113 | MP3B | Z | 0 | 4.15 |
| 114 | MP3B | Mx | .000253 | 4.15 |
| 115 | MP3C | X | 11.183 | 2.15 |
| 116 | MP3C | Z | 0 | 2.15 |
| 117 | MP3C | Mx | .000159 | 2.15 |
| 118 | MP3C | X | 11.183 | 4.15 |
| 119 | MP3C | Z | 0 | 4.15 |
| 120 | MP3C | Mx | .000159 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 2.138 | 1 |
| 2 | MP2A | Z | 1.234 | 1 |
| 3 | MP2A | Mx | .001 | 1 |
| 4 | MP2B | X | 2.554 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 5 | MP2B | Z | 1.475 | 1 |
| 6 | MP2B | Mx | -.000504 | 1 |
| 7 | MP2C | X | 2.245 | 1 |
| 8 | MP2C | Z | 1.296 | 1 |
| 9 | MP2C | Mx | -.000993 | 1 |
| 10 | MP2A | X | 8.373 | 2.5 |
| 11 | MP2A | Z | 4.834 | 2.5 |
| 12 | MP2A | Mx | .004 | 2.5 |
| 13 | MP2B | X | 10.466 | 2.5 |
| 14 | MP2B | Z | 6.042 | 2.5 |
| 15 | MP2B | Mx | -.002 | 2.5 |
| 16 | MP2C | X | 8.913 | 2.5 |
| 17 | MP2C | Z | 5.146 | 2.5 |
| 18 | MP2C | Mx | -.004 | 2.5 |
| 19 | MP3A | X | 7.431 | 2.5 |
| 20 | MP3A | Z | 4.29 | 2.5 |
| 21 | MP3A | Mx | .004 | 2.5 |
| 22 | MP3B | X | 10.319 | 2.5 |
| 23 | MP3B | Z | 5.957 | 2.5 |
| 24 | MP3B | Mx | -.002 | 2.5 |
| 25 | MP3C | X | 8.176 | 2.5 |
| 26 | MP3C | Z | 4.72 | 2.5 |
| 27 | MP3C | Mx | -.004 | 2.5 |
| 28 | MP2A | X | 18.445 | 1.4 |
| 29 | MP2A | Z | 10.649 | 1.4 |
| 30 | MP2A | Mx | -.013 | 1.4 |
| 31 | MP2A | X | 18.445 | 4.9 |
| 32 | MP2A | Z | 10.649 | 4.9 |
| 33 | MP2A | Mx | -.013 | 4.9 |
| 34 | MP2B | X | 23.321 | 1.4 |
| 35 | MP2B | Z | 13.464 | 1.4 |
| 36 | MP2B | Mx | -.009 | 1.4 |
| 37 | MP2B | X | 23.321 | 4.9 |
| 38 | MP2B | Z | 13.464 | 4.9 |
| 39 | MP2B | Mx | -.009 | 4.9 |
| 40 | MP2C | X | 19.702 | 1.4 |
| 41 | MP2C | Z | 11.375 | 1.4 |
| 42 | MP2C | Mx | .031 | 1.4 |
| 43 | MP2C | X | 19.702 | 4.9 |
| 44 | MP2C | Z | 11.375 | 4.9 |
| 45 | MP2C | Mx | .031 | 4.9 |
| 46 | MP2A | X | 18.445 | 1.4 |
| 47 | MP2A | Z | 10.649 | 1.4 |
| 48 | MP2A | Mx | -.029 | 1.4 |
| 49 | MP2A | X | 18.445 | 4.9 |
| 50 | MP2A | Z | 10.649 | 4.9 |
| 51 | MP2A | Mx | -.029 | 4.9 |
| 52 | MP2B | X | 23.321 | 1.4 |
| 53 | MP2B | Z | 13.464 | 1.4 |
| 54 | MP2B | Mx | .029 | 1.4 |
| 55 | MP2B | X | 23.321 | 4.9 |
| 56 | MP2B | Z | 13.464 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 57 | MP2B | Mx | .029 | 4.9 |
| 58 | MP2C | X | 19.702 | 1.4 |
| 59 | MP2C | Z | 11.375 | 1.4 |
| 60 | MP2C | Mx | .009 | 1.4 |
| 61 | MP2C | X | 19.702 | 4.9 |
| 62 | MP2C | Z | 11.375 | 4.9 |
| 63 | MP2C | Mx | .009 | 4.9 |
| 64 | MP1C | X | 23.917 | .25 |
| 65 | MP1C | Z | 13.808 | .25 |
| 66 | MP1C | Mx | .027 | .25 |
| 67 | MP1C | X | 23.917 | 5.08 |
| 68 | MP1C | Z | 13.808 | 5.08 |
| 69 | MP1C | Mx | .027 | 5.08 |
| 70 | MP4C | X | 23.917 | .25 |
| 71 | MP4C | Z | 13.808 | .25 |
| 72 | MP4C | Mx | .027 | .25 |
| 73 | MP4C | X | 23.917 | 5.08 |
| 74 | MP4C | Z | 13.808 | 5.08 |
| 75 | MP4C | Mx | .027 | 5.08 |
| 76 | MP1A | X | 20.329 | .25 |
| 77 | MP1A | Z | 11.737 | .25 |
| 78 | MP1A | Mx | -.026 | .25 |
| 79 | MP1A | X | 20.329 | 5.08 |
| 80 | MP1A | Z | 11.737 | 5.08 |
| 81 | MP1A | Mx | -.026 | 5.08 |
| 82 | MP1B | X | 13.573 | .25 |
| 83 | MP1B | Z | 7.836 | .25 |
| 84 | MP1B | Mx | .007 | .25 |
| 85 | MP1B | X | 13.573 | 5.08 |
| 86 | MP1B | Z | 7.836 | 5.08 |
| 87 | MP1B | Mx | .007 | 5.08 |
| 88 | MP4A | X | 20.329 | .25 |
| 89 | MP4A | Z | 11.737 | .25 |
| 90 | MP4A | Mx | -.026 | .25 |
| 91 | MP4A | X | 20.329 | 5.08 |
| 92 | MP4A | Z | 11.737 | 5.08 |
| 93 | MP4A | Mx | -.026 | 5.08 |
| 94 | MP4B | X | 13.573 | .25 |
| 95 | MP4B | Z | 7.836 | .25 |
| 96 | MP4B | Mx | .007 | .25 |
| 97 | MP4B | X | 13.573 | 5.08 |
| 98 | MP4B | Z | 7.836 | 5.08 |
| 99 | MP4B | Mx | .007 | 5.08 |
| 100 | M103 | X | 17.384 | 1 |
| 101 | M103 | Z | 10.037 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 5.883 | 2.15 |
| 104 | MP3A | Z | 3.397 | 2.15 |
| 105 | MP3A | Mx | -.000245 | 2.15 |
| 106 | MP3A | X | 5.883 | 4.15 |
| 107 | MP3A | Z | 3.397 | 4.15 |
| 108 | MP3A | Mx | -.000245 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 109 | MP3B | X | 9.685 | 2.15 |
| 110 | MP3B | Z | 5.592 | 2.15 |
| 111 | MP3B | Mx | .000159 | 2.15 |
| 112 | MP3B | X | 9.685 | 4.15 |
| 113 | MP3B | Z | 5.592 | 4.15 |
| 114 | MP3B | Mx | .000159 | 4.15 |
| 115 | MP3C | X | 6.863 | 2.15 |
| 116 | MP3C | Z | 3.963 | 2.15 |
| 117 | MP3C | Mx | .000253 | 2.15 |
| 118 | MP3C | X | 6.863 | 4.15 |
| 119 | MP3C | Z | 3.963 | 4.15 |
| 120 | MP3C | Mx | .000253 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 1.424 | 1 |
| 2 | MP2A | Z | 2.467 | 1 |
| 3 | MP2A | Mx | .000712 | 1 |
| 4 | MP2B | X | 1.508 | 1 |
| 5 | MP2B | Z | 2.611 | 1 |
| 6 | MP2B | Mx | .000262 | 1 |
| 7 | MP2C | X | 1.151 | 1 |
| 8 | MP2C | Z | 1.993 | 1 |
| 9 | MP2C | Mx | -.001 | 1 |
| 10 | MP2A | X | 5.788 | 2.5 |
| 11 | MP2A | Z | 10.026 | 2.5 |
| 12 | MP2A | Mx | .003 | 2.5 |
| 13 | MP2B | X | 6.208 | 2.5 |
| 14 | MP2B | Z | 10.753 | 2.5 |
| 15 | MP2B | Mx | .001 | 2.5 |
| 16 | MP2C | X | 4.415 | 2.5 |
| 17 | MP2C | Z | 7.647 | 2.5 |
| 18 | MP2C | Mx | -.004 | 2.5 |
| 19 | MP3A | X | 5.607 | 2.5 |
| 20 | MP3A | Z | 9.712 | 2.5 |
| 21 | MP3A | Mx | .003 | 2.5 |
| 22 | MP3B | X | 6.186 | 2.5 |
| 23 | MP3B | Z | 10.715 | 2.5 |
| 24 | MP3B | Mx | .001 | 2.5 |
| 25 | MP3C | X | 3.711 | 2.5 |
| 26 | MP3C | Z | 6.428 | 2.5 |
| 27 | MP3C | Mx | -.004 | 2.5 |
| 28 | MP2A | X | 12.873 | 1.4 |
| 29 | MP2A | Z | 22.296 | 1.4 |
| 30 | MP2A | Mx | .002 | 1.4 |
| 31 | MP2A | X | 12.873 | 4.9 |
| 32 | MP2A | Z | 22.296 | 4.9 |
| 33 | MP2A | Mx | .002 | 4.9 |
| 34 | MP2B | X | 13.85 | 1.4 |
| 35 | MP2B | Z | 23.989 | 1.4 |
| 36 | MP2B | Mx | -.026 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 37 | MP2B | X | 13.85 | 4.9 |
| 38 | MP2B | Z | 23.989 | 4.9 |
| 39 | MP2B | Mx | -.026 | 4.9 |
| 40 | MP2C | X | 9.671 | 1.4 |
| 41 | MP2C | Z | 16.751 | 1.4 |
| 42 | MP2C | Mx | .024 | 1.4 |
| 43 | MP2C | X | 9.671 | 4.9 |
| 44 | MP2C | Z | 16.751 | 4.9 |
| 45 | MP2C | Mx | .024 | 4.9 |
| 46 | MP2A | X | 12.873 | 1.4 |
| 47 | MP2A | Z | 22.296 | 1.4 |
| 48 | MP2A | Mx | -.031 | 1.4 |
| 49 | MP2A | X | 12.873 | 4.9 |
| 50 | MP2A | Z | 22.296 | 4.9 |
| 51 | MP2A | Mx | -.031 | 4.9 |
| 52 | MP2B | X | 13.85 | 1.4 |
| 53 | MP2B | Z | 23.989 | 1.4 |
| 54 | MP2B | Mx | .015 | 1.4 |
| 55 | MP2B | X | 13.85 | 4.9 |
| 56 | MP2B | Z | 23.989 | 4.9 |
| 57 | MP2B | Mx | .015 | 4.9 |
| 58 | MP2C | X | 9.671 | 1.4 |
| 59 | MP2C | Z | 16.751 | 1.4 |
| 60 | MP2C | Mx | .019 | 1.4 |
| 61 | MP2C | X | 9.671 | 4.9 |
| 62 | MP2C | Z | 16.751 | 4.9 |
| 63 | MP2C | Mx | .019 | 4.9 |
| 64 | MP1C | X | 13.244 | .25 |
| 65 | MP1C | Z | 22.939 | .25 |
| 66 | MP1C | Mx | .034 | .25 |
| 67 | MP1C | X | 13.244 | 5.08 |
| 68 | MP1C | Z | 22.939 | 5.08 |
| 69 | MP1C | Mx | .034 | 5.08 |
| 70 | MP4C | X | 13.244 | .25 |
| 71 | MP4C | Z | 22.939 | .25 |
| 72 | MP4C | Mx | .034 | .25 |
| 73 | MP4C | X | 13.244 | 5.08 |
| 74 | MP4C | Z | 22.939 | 5.08 |
| 75 | MP4C | Mx | .034 | 5.08 |
| 76 | MP1A | X | 8.656 | .25 |
| 77 | MP1A | Z | 14.992 | .25 |
| 78 | MP1A | Mx | -.011 | .25 |
| 79 | MP1A | X | 8.656 | 5.08 |
| 80 | MP1A | Z | 14.992 | 5.08 |
| 81 | MP1A | Mx | -.011 | 5.08 |
| 82 | MP1B | X | 7.301 | .25 |
| 83 | MP1B | Z | 12.646 | .25 |
| 84 | MP1B | Mx | -.003 | .25 |
| 85 | MP1B | X | 7.301 | 5.08 |
| 86 | MP1B | Z | 12.646 | 5.08 |
| 87 | MP1B | Mx | -.003 | 5.08 |
| 88 | MP4A | X | 8.656 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 89 | MP4A | Z | 14.992 | .25 |
| 90 | MP4A | Mx | -.011 | .25 |
| 91 | MP4A | X | 8.656 | 5.08 |
| 92 | MP4A | Z | 14.992 | 5.08 |
| 93 | MP4A | Mx | -.011 | 5.08 |
| 94 | MP4B | X | 7.301 | .25 |
| 95 | MP4B | Z | 12.646 | .25 |
| 96 | MP4B | Mx | -.003 | .25 |
| 97 | MP4B | X | 7.301 | 5.08 |
| 98 | MP4B | Z | 12.646 | 5.08 |
| 99 | MP4B | Mx | -.003 | 5.08 |
| 100 | M103 | X | 11.101 | 1 |
| 101 | M103 | Z | 19.227 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 5.13 | 2.15 |
| 104 | MP3A | Z | 8.886 | 2.15 |
| 105 | MP3A | Mx | -.000214 | 2.15 |
| 106 | MP3A | X | 5.13 | 4.15 |
| 107 | MP3A | Z | 8.886 | 4.15 |
| 108 | MP3A | Mx | -.000214 | 4.15 |
| 109 | MP3B | X | 5.893 | 2.15 |
| 110 | MP3B | Z | 10.206 | 2.15 |
| 111 | MP3B | Mx | -8.5e-5 | 2.15 |
| 112 | MP3B | X | 5.893 | 4.15 |
| 113 | MP3B | Z | 10.206 | 4.15 |
| 114 | MP3B | Mx | -8.5e-5 | 4.15 |
| 115 | MP3C | X | 2.635 | 2.15 |
| 116 | MP3C | Z | 4.563 | 2.15 |
| 117 | MP3C | Mx | .000216 | 2.15 |
| 118 | MP3C | X | 2.635 | 4.15 |
| 119 | MP3C | Z | 4.563 | 4.15 |
| 120 | MP3C | Mx | .000216 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 1 |
| 2 | MP2A | Z | 3.038 | 1 |
| 3 | MP2A | Mx | 0 | 1 |
| 4 | MP2B | X | 0 | 1 |
| 5 | MP2B | Z | 2.724 | 1 |
| 6 | MP2B | Mx | .000875 | 1 |
| 7 | MP2C | X | 0 | 1 |
| 8 | MP2C | Z | 2.368 | 1 |
| 9 | MP2C | Mx | -.001 | 1 |
| 10 | MP2A | X | 0 | 2.5 |
| 11 | MP2A | Z | 12.531 | 2.5 |
| 12 | MP2A | Mx | 0 | 2.5 |
| 13 | MP2B | X | 0 | 2.5 |
| 14 | MP2B | Z | 10.954 | 2.5 |
| 15 | MP2B | Mx | .004 | 2.5 |
| 16 | MP2C | X | 0 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP2C | Z | 9.161 | 2.5 |
| 18 | MP2C | Mx | -.004 | 2.5 |
| 19 | MP3A | X | 0 | 2.5 |
| 20 | MP3A | Z | 12.531 | 2.5 |
| 21 | MP3A | Mx | 0 | 2.5 |
| 22 | MP3B | X | 0 | 2.5 |
| 23 | MP3B | Z | 10.355 | 2.5 |
| 24 | MP3B | Mx | .003 | 2.5 |
| 25 | MP3C | X | 0 | 2.5 |
| 26 | MP3C | Z | 7.88 | 2.5 |
| 27 | MP3C | Mx | -.004 | 2.5 |
| 28 | MP2A | X | 0 | 1.4 |
| 29 | MP2A | Z | 27.969 | 1.4 |
| 30 | MP2A | Mx | .021 | 1.4 |
| 31 | MP2A | X | 0 | 4.9 |
| 32 | MP2A | Z | 27.969 | 4.9 |
| 33 | MP2A | Mx | .021 | 4.9 |
| 34 | MP2B | X | 0 | 1.4 |
| 35 | MP2B | Z | 24.294 | 1.4 |
| 36 | MP2B | Mx | -.032 | 1.4 |
| 37 | MP2B | X | 0 | 4.9 |
| 38 | MP2B | Z | 24.294 | 4.9 |
| 39 | MP2B | Mx | -.032 | 4.9 |
| 40 | MP2C | X | 0 | 1.4 |
| 41 | MP2C | Z | 20.115 | 1.4 |
| 42 | MP2C | Mx | .016 | 1.4 |
| 43 | MP2C | X | 0 | 4.9 |
| 44 | MP2C | Z | 20.115 | 4.9 |
| 45 | MP2C | Mx | .016 | 4.9 |
| 46 | MP2A | X | 0 | 1.4 |
| 47 | MP2A | Z | 27.969 | 1.4 |
| 48 | MP2A | Mx | -.021 | 1.4 |
| 49 | MP2A | X | 0 | 4.9 |
| 50 | MP2A | Z | 27.969 | 4.9 |
| 51 | MP2A | Mx | -.021 | 4.9 |
| 52 | MP2B | X | 0 | 1.4 |
| 53 | MP2B | Z | 24.294 | 1.4 |
| 54 | MP2B | Mx | -.004 | 1.4 |
| 55 | MP2B | X | 0 | 4.9 |
| 56 | MP2B | Z | 24.294 | 4.9 |
| 57 | MP2B | Mx | -.004 | 4.9 |
| 58 | MP2C | X | 0 | 1.4 |
| 59 | MP2C | Z | 20.115 | 1.4 |
| 60 | MP2C | Mx | .026 | 1.4 |
| 61 | MP2C | X | 0 | 4.9 |
| 62 | MP2C | Z | 20.115 | 4.9 |
| 63 | MP2C | Mx | .026 | 4.9 |
| 64 | MP1C | X | 0 | .25 |
| 65 | MP1C | Z | 26.744 | .25 |
| 66 | MP1C | Mx | .032 | .25 |
| 67 | MP1C | X | 0 | 5.08 |
| 68 | MP1C | Z | 26.744 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 69 | MP1C | Mx | .032 | 5.08 |
| 70 | MP4C | X | 0 | .25 |
| 71 | MP4C | Z | 26.744 | .25 |
| 72 | MP4C | Mx | .032 | .25 |
| 73 | MP4C | X | 0 | 5.08 |
| 74 | MP4C | Z | 26.744 | 5.08 |
| 75 | MP4C | Mx | .032 | 5.08 |
| 76 | MP1A | X | 0 | .25 |
| 77 | MP1A | Z | 14.231 | .25 |
| 78 | MP1A | Mx | 0 | .25 |
| 79 | MP1A | X | 0 | 5.08 |
| 80 | MP1A | Z | 14.231 | 5.08 |
| 81 | MP1A | Mx | 0 | 5.08 |
| 82 | MP1B | X | 0 | .25 |
| 83 | MP1B | Z | 19.323 | .25 |
| 84 | MP1B | Mx | -.016 | .25 |
| 85 | MP1B | X | 0 | 5.08 |
| 86 | MP1B | Z | 19.323 | 5.08 |
| 87 | MP1B | Mx | -.016 | 5.08 |
| 88 | MP4A | X | 0 | .25 |
| 89 | MP4A | Z | 14.231 | .25 |
| 90 | MP4A | Mx | 0 | .25 |
| 91 | MP4A | X | 0 | 5.08 |
| 92 | MP4A | Z | 14.231 | 5.08 |
| 93 | MP4A | Mx | 0 | 5.08 |
| 94 | MP4B | X | 0 | .25 |
| 95 | MP4B | Z | 19.323 | .25 |
| 96 | MP4B | Mx | -.016 | .25 |
| 97 | MP4B | X | 0 | 5.08 |
| 98 | MP4B | Z | 19.323 | 5.08 |
| 99 | MP4B | Mx | -.016 | 5.08 |
| 100 | M103 | X | 0 | 1 |
| 101 | M103 | Z | 24.811 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 0 | 2.15 |
| 104 | MP3A | Z | 11.995 | 2.15 |
| 105 | MP3A | Mx | 0 | 2.15 |
| 106 | MP3A | X | 0 | 4.15 |
| 107 | MP3A | Z | 11.995 | 4.15 |
| 108 | MP3A | Mx | 0 | 4.15 |
| 109 | MP3B | X | 0 | 2.15 |
| 110 | MP3B | Z | 9.129 | 2.15 |
| 111 | MP3B | Mx | -.000245 | 2.15 |
| 112 | MP3B | X | 0 | 4.15 |
| 113 | MP3B | Z | 9.129 | 4.15 |
| 114 | MP3B | Mx | -.000245 | 4.15 |
| 115 | MP3C | X | 0 | 2.15 |
| 116 | MP3C | Z | 5.871 | 2.15 |
| 117 | MP3C | Mx | .00023 | 2.15 |
| 118 | MP3C | X | 0 | 4.15 |
| 119 | MP3C | Z | 5.871 | 4.15 |
| 120 | MP3C | Mx | .00023 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -1.424 | 1 |
| 2 | MP2A | Z | 2.467 | 1 |
| 3 | MP2A | Mx | -.000712 | 1 |
| 4 | MP2B | X | -1.184 | 1 |
| 5 | MP2B | Z | 2.05 | 1 |
| 6 | MP2B | Mx | .001 | 1 |
| 7 | MP2C | X | -1.362 | 1 |
| 8 | MP2C | Z | 2.359 | 1 |
| 9 | MP2C | Mx | -.000875 | 1 |
| 10 | MP2A | X | -5.788 | 2.5 |
| 11 | MP2A | Z | 10.026 | 2.5 |
| 12 | MP2A | Mx | -.003 | 2.5 |
| 13 | MP2B | X | -4.58 | 2.5 |
| 14 | MP2B | Z | 7.934 | 2.5 |
| 15 | MP2B | Mx | .004 | 2.5 |
| 16 | MP2C | X | -5.477 | 2.5 |
| 17 | MP2C | Z | 9.487 | 2.5 |
| 18 | MP2C | Mx | -.004 | 2.5 |
| 19 | MP3A | X | -5.607 | 2.5 |
| 20 | MP3A | Z | 9.712 | 2.5 |
| 21 | MP3A | Mx | -.003 | 2.5 |
| 22 | MP3B | X | -3.94 | 2.5 |
| 23 | MP3B | Z | 6.824 | 2.5 |
| 24 | MP3B | Mx | .004 | 2.5 |
| 25 | MP3C | X | -5.177 | 2.5 |
| 26 | MP3C | Z | 8.968 | 2.5 |
| 27 | MP3C | Mx | -.003 | 2.5 |
| 28 | MP2A | X | -12.873 | 1.4 |
| 29 | MP2A | Z | 22.296 | 1.4 |
| 30 | MP2A | Mx | .031 | 1.4 |
| 31 | MP2A | X | -12.873 | 4.9 |
| 32 | MP2A | Z | 22.296 | 4.9 |
| 33 | MP2A | Mx | .031 | 4.9 |
| 34 | MP2B | X | -10.058 | 1.4 |
| 35 | MP2B | Z | 17.42 | 1.4 |
| 36 | MP2B | Mx | -.026 | 1.4 |
| 37 | MP2B | X | -10.058 | 4.9 |
| 38 | MP2B | Z | 17.42 | 4.9 |
| 39 | MP2B | Mx | -.026 | 4.9 |
| 40 | MP2C | X | -12.147 | 1.4 |
| 41 | MP2C | Z | 21.039 | 1.4 |
| 42 | MP2C | Mx | .004 | 1.4 |
| 43 | MP2C | X | -12.147 | 4.9 |
| 44 | MP2C | Z | 21.039 | 4.9 |
| 45 | MP2C | Mx | .004 | 4.9 |
| 46 | MP2A | X | -12.873 | 1.4 |
| 47 | MP2A | Z | 22.296 | 1.4 |
| 48 | MP2A | Mx | -.002 | 1.4 |
| 49 | MP2A | X | -12.873 | 4.9 |
| 50 | MP2A | Z | 22.296 | 4.9 |
| 51 | MP2A | Mx | -.002 | 4.9 |
| 52 | MP2B | X | -10.058 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 53 | MP2B | Z | 17.42 | 1.4 |
| 54 | MP2B | Mx | -.016 | 1.4 |
| 55 | MP2B | X | -10.058 | 4.9 |
| 56 | MP2B | Z | 17.42 | 4.9 |
| 57 | MP2B | Mx | -.016 | 4.9 |
| 58 | MP2C | X | -12.147 | 1.4 |
| 59 | MP2C | Z | 21.039 | 1.4 |
| 60 | MP2C | Mx | .032 | 1.4 |
| 61 | MP2C | X | -12.147 | 4.9 |
| 62 | MP2C | Z | 21.039 | 4.9 |
| 63 | MP2C | Mx | .032 | 4.9 |
| 64 | MP1C | X | -14.064 | .25 |
| 65 | MP1C | Z | 24.36 | .25 |
| 66 | MP1C | Mx | .023 | .25 |
| 67 | MP1C | X | -14.064 | 5.08 |
| 68 | MP1C | Z | 24.36 | 5.08 |
| 69 | MP1C | Mx | .023 | 5.08 |
| 70 | MP4C | X | -14.064 | .25 |
| 71 | MP4C | Z | 24.36 | .25 |
| 72 | MP4C | Mx | .023 | .25 |
| 73 | MP4C | X | -14.064 | 5.08 |
| 74 | MP4C | Z | 24.36 | 5.08 |
| 75 | MP4C | Mx | .023 | 5.08 |
| 76 | MP1A | X | -8.656 | .25 |
| 77 | MP1A | Z | 14.992 | .25 |
| 78 | MP1A | Mx | .011 | .25 |
| 79 | MP1A | X | -8.656 | 5.08 |
| 80 | MP1A | Z | 14.992 | 5.08 |
| 81 | MP1A | Mx | .011 | 5.08 |
| 82 | MP1B | X | -12.556 | .25 |
| 83 | MP1B | Z | 21.748 | .25 |
| 84 | MP1B | Mx | -.03 | .25 |
| 85 | MP1B | X | -12.556 | 5.08 |
| 86 | MP1B | Z | 21.748 | 5.08 |
| 87 | MP1B | Mx | -.03 | 5.08 |
| 88 | MP4A | X | -8.656 | .25 |
| 89 | MP4A | Z | 14.992 | .25 |
| 90 | MP4A | Mx | .011 | .25 |
| 91 | MP4A | X | -8.656 | 5.08 |
| 92 | MP4A | Z | 14.992 | 5.08 |
| 93 | MP4A | Mx | .011 | 5.08 |
| 94 | MP4B | X | -12.556 | .25 |
| 95 | MP4B | Z | 21.748 | .25 |
| 96 | MP4B | Mx | -.03 | .25 |
| 97 | MP4B | X | -12.556 | 5.08 |
| 98 | MP4B | Z | 21.748 | 5.08 |
| 99 | MP4B | Mx | -.03 | 5.08 |
| 100 | M103 | X | -12.647 | 1 |
| 101 | M103 | Z | 21.905 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -5.13 | 2.15 |
| 104 | MP3A | Z | 8.886 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 105 | MP3A | Mx | .000214 | 2.15 |
| 106 | MP3A | X | -5.13 | 4.15 |
| 107 | MP3A | Z | 8.886 | 4.15 |
| 108 | MP3A | Mx | .000214 | 4.15 |
| 109 | MP3B | X | -2.936 | 2.15 |
| 110 | MP3B | Z | 5.085 | 2.15 |
| 111 | MP3B | Mx | -.00023 | 2.15 |
| 112 | MP3B | X | -2.936 | 4.15 |
| 113 | MP3B | Z | 5.085 | 4.15 |
| 114 | MP3B | Mx | -.00023 | 4.15 |
| 115 | MP3C | X | -4.565 | 2.15 |
| 116 | MP3C | Z | 7.906 | 2.15 |
| 117 | MP3C | Mx | .000244 | 2.15 |
| 118 | MP3C | X | -4.565 | 4.15 |
| 119 | MP3C | Z | 7.906 | 4.15 |
| 120 | MP3C | Mx | .000244 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -2.138 | 1 |
| 2 | MP2A | Z | 1.234 | 1 |
| 3 | MP2A | Mx | -.001 | 1 |
| 4 | MP2B | X | -1.993 | 1 |
| 5 | MP2B | Z | 1.151 | 1 |
| 6 | MP2B | Mx | .001 | 1 |
| 7 | MP2C | X | -2.611 | 1 |
| 8 | MP2C | Z | 1.508 | 1 |
| 9 | MP2C | Mx | -.000262 | 1 |
| 10 | MP2A | X | -8.373 | 2.5 |
| 11 | MP2A | Z | 4.834 | 2.5 |
| 12 | MP2A | Mx | -.004 | 2.5 |
| 13 | MP2B | X | -7.647 | 2.5 |
| 14 | MP2B | Z | 4.415 | 2.5 |
| 15 | MP2B | Mx | .004 | 2.5 |
| 16 | MP2C | X | -10.753 | 2.5 |
| 17 | MP2C | Z | 6.208 | 2.5 |
| 18 | MP2C | Mx | -.001 | 2.5 |
| 19 | MP3A | X | -7.431 | 2.5 |
| 20 | MP3A | Z | 4.29 | 2.5 |
| 21 | MP3A | Mx | -.004 | 2.5 |
| 22 | MP3B | X | -6.428 | 2.5 |
| 23 | MP3B | Z | 3.711 | 2.5 |
| 24 | MP3B | Mx | .004 | 2.5 |
| 25 | MP3C | X | -10.715 | 2.5 |
| 26 | MP3C | Z | 6.186 | 2.5 |
| 27 | MP3C | Mx | -.001 | 2.5 |
| 28 | MP2A | X | -18.445 | 1.4 |
| 29 | MP2A | Z | 10.649 | 1.4 |
| 30 | MP2A | Mx | .029 | 1.4 |
| 31 | MP2A | X | -18.445 | 4.9 |
| 32 | MP2A | Z | 10.649 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A | Mx | .029 | 4.9 |
| 34 | MP2B | X | -16.751 | 1.4 |
| 35 | MP2B | Z | 9.671 | 1.4 |
| 36 | MP2B | Mx | -.019 | 1.4 |
| 37 | MP2B | X | -16.751 | 4.9 |
| 38 | MP2B | Z | 9.671 | 4.9 |
| 39 | MP2B | Mx | -.019 | 4.9 |
| 40 | MP2C | X | -23.989 | 1.4 |
| 41 | MP2C | Z | 13.85 | 1.4 |
| 42 | MP2C | Mx | -.015 | 1.4 |
| 43 | MP2C | X | -23.989 | 4.9 |
| 44 | MP2C | Z | 13.85 | 4.9 |
| 45 | MP2C | Mx | -.015 | 4.9 |
| 46 | MP2A | X | -18.445 | 1.4 |
| 47 | MP2A | Z | 10.649 | 1.4 |
| 48 | MP2A | Mx | .013 | 1.4 |
| 49 | MP2A | X | -18.445 | 4.9 |
| 50 | MP2A | Z | 10.649 | 4.9 |
| 51 | MP2A | Mx | .013 | 4.9 |
| 52 | MP2B | X | -16.751 | 1.4 |
| 53 | MP2B | Z | 9.671 | 1.4 |
| 54 | MP2B | Mx | -.024 | 1.4 |
| 55 | MP2B | X | -16.751 | 4.9 |
| 56 | MP2B | Z | 9.671 | 4.9 |
| 57 | MP2B | Mx | -.024 | 4.9 |
| 58 | MP2C | X | -23.989 | 1.4 |
| 59 | MP2C | Z | 13.85 | 1.4 |
| 60 | MP2C | Mx | .026 | 1.4 |
| 61 | MP2C | X | -23.989 | 4.9 |
| 62 | MP2C | Z | 13.85 | 4.9 |
| 63 | MP2C | Mx | .026 | 4.9 |
| 64 | MP1C | X | -25.337 | .25 |
| 65 | MP1C | Z | 14.629 | .25 |
| 66 | MP1C | Mx | .007 | .25 |
| 67 | MP1C | X | -25.337 | 5.08 |
| 68 | MP1C | Z | 14.629 | 5.08 |
| 69 | MP1C | Mx | .007 | 5.08 |
| 70 | MP4C | X | -25.337 | .25 |
| 71 | MP4C | Z | 14.629 | .25 |
| 72 | MP4C | Mx | .007 | .25 |
| 73 | MP4C | X | -25.337 | 5.08 |
| 74 | MP4C | Z | 14.629 | 5.08 |
| 75 | MP4C | Mx | .007 | 5.08 |
| 76 | MP1A | X | -20.329 | .25 |
| 77 | MP1A | Z | 11.737 | .25 |
| 78 | MP1A | Mx | .026 | .25 |
| 79 | MP1A | X | -20.329 | 5.08 |
| 80 | MP1A | Z | 11.737 | 5.08 |
| 81 | MP1A | Mx | .026 | 5.08 |
| 82 | MP1B | X | -22.675 | .25 |
| 83 | MP1B | Z | 13.091 | .25 |
| 84 | MP1B | Mx | -.033 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 85 | MP1B | X | -22.675 | 5.08 |
| 86 | MP1B | Z | 13.091 | 5.08 |
| 87 | MP1B | Mx | -.033 | 5.08 |
| 88 | MP4A | X | -20.329 | .25 |
| 89 | MP4A | Z | 11.737 | .25 |
| 90 | MP4A | Mx | .026 | .25 |
| 91 | MP4A | X | -20.329 | 5.08 |
| 92 | MP4A | Z | 11.737 | 5.08 |
| 93 | MP4A | Mx | .026 | 5.08 |
| 94 | MP4B | X | -22.675 | .25 |
| 95 | MP4B | Z | 13.091 | .25 |
| 96 | MP4B | Mx | -.033 | .25 |
| 97 | MP4B | X | -22.675 | 5.08 |
| 98 | MP4B | Z | 13.091 | 5.08 |
| 99 | MP4B | Mx | -.033 | 5.08 |
| 100 | M103 | X | -20.062 | 1 |
| 101 | M103 | Z | 11.583 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -5.883 | 2.15 |
| 104 | MP3A | Z | 3.397 | 2.15 |
| 105 | MP3A | Mx | .000245 | 2.15 |
| 106 | MP3A | X | -5.883 | 4.15 |
| 107 | MP3A | Z | 3.397 | 4.15 |
| 108 | MP3A | Mx | .000245 | 4.15 |
| 109 | MP3B | X | -4.563 | 2.15 |
| 110 | MP3B | Z | 2.635 | 2.15 |
| 111 | MP3B | Mx | -.000216 | 2.15 |
| 112 | MP3B | X | -4.563 | 4.15 |
| 113 | MP3B | Z | 2.635 | 4.15 |
| 114 | MP3B | Mx | -.000216 | 4.15 |
| 115 | MP3C | X | -10.206 | 2.15 |
| 116 | MP3C | Z | 5.893 | 2.15 |
| 117 | MP3C | Mx | 8.5e-5 | 2.15 |
| 118 | MP3C | X | -10.206 | 4.15 |
| 119 | MP3C | Z | 5.893 | 4.15 |
| 120 | MP3C | Mx | 8.5e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -2.279 | 1 |
| 2 | MP2A | Z | 0 | 1 |
| 3 | MP2A | Mx | -.001 | 1 |
| 4 | MP2B | X | -2.593 | 1 |
| 5 | MP2B | Z | 0 | 1 |
| 6 | MP2B | Mx | .000993 | 1 |
| 7 | MP2C | X | -2.949 | 1 |
| 8 | MP2C | Z | 0 | 1 |
| 9 | MP2C | Mx | .000504 | 1 |
| 10 | MP2A | X | -8.714 | 2.5 |
| 11 | MP2A | Z | 0 | 2.5 |
| 12 | MP2A | Mx | -.004 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP2B | X | -10.291 | 2.5 |
| 14 | MP2B | Z | 0 | 2.5 |
| 15 | MP2B | Mx | .004 | 2.5 |
| 16 | MP2C | X | -12.085 | 2.5 |
| 17 | MP2C | Z | 0 | 2.5 |
| 18 | MP2C | Mx | .002 | 2.5 |
| 19 | MP3A | X | -7.264 | 2.5 |
| 20 | MP3A | Z | 0 | 2.5 |
| 21 | MP3A | Mx | -.004 | 2.5 |
| 22 | MP3B | X | -9.44 | 2.5 |
| 23 | MP3B | Z | 0 | 2.5 |
| 24 | MP3B | Mx | .004 | 2.5 |
| 25 | MP3C | X | -11.915 | 2.5 |
| 26 | MP3C | Z | 0 | 2.5 |
| 27 | MP3C | Mx | .002 | 2.5 |
| 28 | MP2A | X | -19.075 | 1.4 |
| 29 | MP2A | Z | 0 | 1.4 |
| 30 | MP2A | Mx | .021 | 1.4 |
| 31 | MP2A | X | -19.075 | 4.9 |
| 32 | MP2A | Z | 0 | 4.9 |
| 33 | MP2A | Mx | .021 | 4.9 |
| 34 | MP2B | X | -22.749 | 1.4 |
| 35 | MP2B | Z | 0 | 1.4 |
| 36 | MP2B | Mx | -.009 | 1.4 |
| 37 | MP2B | X | -22.749 | 4.9 |
| 38 | MP2B | Z | 0 | 4.9 |
| 39 | MP2B | Mx | -.009 | 4.9 |
| 40 | MP2C | X | -26.928 | 1.4 |
| 41 | MP2C | Z | 0 | 1.4 |
| 42 | MP2C | Mx | -.029 | 1.4 |
| 43 | MP2C | X | -26.928 | 4.9 |
| 44 | MP2C | Z | 0 | 4.9 |
| 45 | MP2C | Mx | -.029 | 4.9 |
| 46 | MP2A | X | -19.075 | 1.4 |
| 47 | MP2A | Z | 0 | 1.4 |
| 48 | MP2A | Mx | .021 | 1.4 |
| 49 | MP2A | X | -19.075 | 4.9 |
| 50 | MP2A | Z | 0 | 4.9 |
| 51 | MP2A | Mx | .021 | 4.9 |
| 52 | MP2B | X | -22.749 | 1.4 |
| 53 | MP2B | Z | 0 | 1.4 |
| 54 | MP2B | Mx | -.031 | 1.4 |
| 55 | MP2B | X | -22.749 | 4.9 |
| 56 | MP2B | Z | 0 | 4.9 |
| 57 | MP2B | Mx | -.031 | 4.9 |
| 58 | MP2C | X | -26.928 | 1.4 |
| 59 | MP2C | Z | 0 | 1.4 |
| 60 | MP2C | Mx | .009 | 1.4 |
| 61 | MP2C | X | -26.928 | 4.9 |
| 62 | MP2C | Z | 0 | 4.9 |
| 63 | MP2C | Mx | .009 | 4.9 |
| 64 | MP1C | X | -29.001 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 65 | MP1C | Z | 0 | .25 |
| 66 | MP1C | Mx | -.013 | .25 |
| 67 | MP1C | X | -29.001 | 5.08 |
| 68 | MP1C | Z | 0 | 5.08 |
| 69 | MP1C | Mx | -.013 | 5.08 |
| 70 | MP4C | X | -29.001 | .25 |
| 71 | MP4C | Z | 0 | .25 |
| 72 | MP4C | Mx | -.013 | .25 |
| 73 | MP4C | X | -29.001 | 5.08 |
| 74 | MP4C | Z | 0 | 5.08 |
| 75 | MP4C | Mx | -.013 | 5.08 |
| 76 | MP1A | X | -26.554 | .25 |
| 77 | MP1A | Z | 0 | .25 |
| 78 | MP1A | Mx | .034 | .25 |
| 79 | MP1A | X | -26.554 | 5.08 |
| 80 | MP1A | Z | 0 | 5.08 |
| 81 | MP1A | Mx | .034 | 5.08 |
| 82 | MP1B | X | -21.463 | .25 |
| 83 | MP1B | Z | 0 | .25 |
| 84 | MP1B | Mx | -.021 | .25 |
| 85 | MP1B | X | -21.463 | 5.08 |
| 86 | MP1B | Z | 0 | 5.08 |
| 87 | MP1B | Mx | -.021 | 5.08 |
| 88 | MP4A | X | -26.554 | .25 |
| 89 | MP4A | Z | 0 | .25 |
| 90 | MP4A | Mx | .034 | .25 |
| 91 | MP4A | X | -26.554 | 5.08 |
| 92 | MP4A | Z | 0 | 5.08 |
| 93 | MP4A | Mx | .034 | 5.08 |
| 94 | MP4B | X | -21.463 | .25 |
| 95 | MP4B | Z | 0 | .25 |
| 96 | MP4B | Mx | -.021 | .25 |
| 97 | MP4B | X | -21.463 | 5.08 |
| 98 | MP4B | Z | 0 | 5.08 |
| 99 | MP4B | Mx | -.021 | 5.08 |
| 100 | M103 | X | -20.556 | 1 |
| 101 | M103 | Z | 0 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -5.06 | 2.15 |
| 104 | MP3A | Z | 0 | 2.15 |
| 105 | MP3A | Mx | .000211 | 2.15 |
| 106 | MP3A | X | -5.06 | 4.15 |
| 107 | MP3A | Z | 0 | 4.15 |
| 108 | MP3A | Mx | .000211 | 4.15 |
| 109 | MP3B | X | -7.925 | 2.15 |
| 110 | MP3B | Z | 0 | 2.15 |
| 111 | MP3B | Mx | -.000253 | 2.15 |
| 112 | MP3B | X | -7.925 | 4.15 |
| 113 | MP3B | Z | 0 | 4.15 |
| 114 | MP3B | Mx | -.000253 | 4.15 |
| 115 | MP3C | X | -11.183 | 2.15 |
| 116 | MP3C | Z | 0 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 117 | MP3C | Mx | -.000159 | 2.15 |
| 118 | MP3C | X | -11.183 | 4.15 |
| 119 | MP3C | Z | 0 | 4.15 |
| 120 | MP3C | Mx | -.000159 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -2.138 | 1 |
| 2 | MP2A | Z | -1.234 | 1 |
| 3 | MP2A | Mx | -.001 | 1 |
| 4 | MP2B | X | -2.554 | 1 |
| 5 | MP2B | Z | -1.475 | 1 |
| 6 | MP2B | Mx | .000504 | 1 |
| 7 | MP2C | X | -2.245 | 1 |
| 8 | MP2C | Z | -1.296 | 1 |
| 9 | MP2C | Mx | .000993 | 1 |
| 10 | MP2A | X | -8.373 | 2.5 |
| 11 | MP2A | Z | -4.834 | 2.5 |
| 12 | MP2A | Mx | -.004 | 2.5 |
| 13 | MP2B | X | -10.466 | 2.5 |
| 14 | MP2B | Z | -6.042 | 2.5 |
| 15 | MP2B | Mx | .002 | 2.5 |
| 16 | MP2C | X | -8.913 | 2.5 |
| 17 | MP2C | Z | -5.146 | 2.5 |
| 18 | MP2C | Mx | .004 | 2.5 |
| 19 | MP3A | X | -7.431 | 2.5 |
| 20 | MP3A | Z | -4.29 | 2.5 |
| 21 | MP3A | Mx | -.004 | 2.5 |
| 22 | MP3B | X | -10.319 | 2.5 |
| 23 | MP3B | Z | -5.957 | 2.5 |
| 24 | MP3B | Mx | .002 | 2.5 |
| 25 | MP3C | X | -8.176 | 2.5 |
| 26 | MP3C | Z | -4.72 | 2.5 |
| 27 | MP3C | Mx | .004 | 2.5 |
| 28 | MP2A | X | -18.445 | 1.4 |
| 29 | MP2A | Z | -10.649 | 1.4 |
| 30 | MP2A | Mx | .013 | 1.4 |
| 31 | MP2A | X | -18.445 | 4.9 |
| 32 | MP2A | Z | -10.649 | 4.9 |
| 33 | MP2A | Mx | .013 | 4.9 |
| 34 | MP2B | X | -23.321 | 1.4 |
| 35 | MP2B | Z | -13.464 | 1.4 |
| 36 | MP2B | Mx | .009 | 1.4 |
| 37 | MP2B | X | -23.321 | 4.9 |
| 38 | MP2B | Z | -13.464 | 4.9 |
| 39 | MP2B | Mx | .009 | 4.9 |
| 40 | MP2C | X | -19.702 | 1.4 |
| 41 | MP2C | Z | -11.375 | 1.4 |
| 42 | MP2C | Mx | -.031 | 1.4 |
| 43 | MP2C | X | -19.702 | 4.9 |
| 44 | MP2C | Z | -11.375 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 45 | MP2C | Mx | -.031 | 4.9 |
| 46 | MP2A | X | -18.445 | 1.4 |
| 47 | MP2A | Z | -10.649 | 1.4 |
| 48 | MP2A | Mx | .029 | 1.4 |
| 49 | MP2A | X | -18.445 | 4.9 |
| 50 | MP2A | Z | -10.649 | 4.9 |
| 51 | MP2A | Mx | .029 | 4.9 |
| 52 | MP2B | X | -23.321 | 1.4 |
| 53 | MP2B | Z | -13.464 | 1.4 |
| 54 | MP2B | Mx | -.029 | 1.4 |
| 55 | MP2B | X | -23.321 | 4.9 |
| 56 | MP2B | Z | -13.464 | 4.9 |
| 57 | MP2B | Mx | -.029 | 4.9 |
| 58 | MP2C | X | -19.702 | 1.4 |
| 59 | MP2C | Z | -11.375 | 1.4 |
| 60 | MP2C | Mx | -.009 | 1.4 |
| 61 | MP2C | X | -19.702 | 4.9 |
| 62 | MP2C | Z | -11.375 | 4.9 |
| 63 | MP2C | Mx | -.009 | 4.9 |
| 64 | MP1C | X | -23.917 | .25 |
| 65 | MP1C | Z | -13.808 | .25 |
| 66 | MP1C | Mx | -.027 | .25 |
| 67 | MP1C | X | -23.917 | 5.08 |
| 68 | MP1C | Z | -13.808 | 5.08 |
| 69 | MP1C | Mx | -.027 | 5.08 |
| 70 | MP4C | X | -23.917 | .25 |
| 71 | MP4C | Z | -13.808 | .25 |
| 72 | MP4C | Mx | -.027 | .25 |
| 73 | MP4C | X | -23.917 | 5.08 |
| 74 | MP4C | Z | -13.808 | 5.08 |
| 75 | MP4C | Mx | -.027 | 5.08 |
| 76 | MP1A | X | -20.329 | .25 |
| 77 | MP1A | Z | -11.737 | .25 |
| 78 | MP1A | Mx | .026 | .25 |
| 79 | MP1A | X | -20.329 | 5.08 |
| 80 | MP1A | Z | -11.737 | 5.08 |
| 81 | MP1A | Mx | .026 | 5.08 |
| 82 | MP1B | X | -13.573 | .25 |
| 83 | MP1B | Z | -7.836 | .25 |
| 84 | MP1B | Mx | -.007 | .25 |
| 85 | MP1B | X | -13.573 | 5.08 |
| 86 | MP1B | Z | -7.836 | 5.08 |
| 87 | MP1B | Mx | -.007 | 5.08 |
| 88 | MP4A | X | -20.329 | .25 |
| 89 | MP4A | Z | -11.737 | .25 |
| 90 | MP4A | Mx | .026 | .25 |
| 91 | MP4A | X | -20.329 | 5.08 |
| 92 | MP4A | Z | -11.737 | 5.08 |
| 93 | MP4A | Mx | .026 | 5.08 |
| 94 | MP4B | X | -13.573 | .25 |
| 95 | MP4B | Z | -7.836 | .25 |
| 96 | MP4B | Mx | -.007 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 97 | MP4B | X | -13.573 | 5.08 |
| 98 | MP4B | Z | -7.836 | 5.08 |
| 99 | MP4B | Mx | -.007 | 5.08 |
| 100 | M103 | X | -17.384 | 1 |
| 101 | M103 | Z | -10.037 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -5.883 | 2.15 |
| 104 | MP3A | Z | -3.397 | 2.15 |
| 105 | MP3A | Mx | .000245 | 2.15 |
| 106 | MP3A | X | -5.883 | 4.15 |
| 107 | MP3A | Z | -3.397 | 4.15 |
| 108 | MP3A | Mx | .000245 | 4.15 |
| 109 | MP3B | X | -9.685 | 2.15 |
| 110 | MP3B | Z | -5.592 | 2.15 |
| 111 | MP3B | Mx | -.000159 | 2.15 |
| 112 | MP3B | X | -9.685 | 4.15 |
| 113 | MP3B | Z | -5.592 | 4.15 |
| 114 | MP3B | Mx | -.000159 | 4.15 |
| 115 | MP3C | X | -6.863 | 2.15 |
| 116 | MP3C | Z | -3.963 | 2.15 |
| 117 | MP3C | Mx | -.000253 | 2.15 |
| 118 | MP3C | X | -6.863 | 4.15 |
| 119 | MP3C | Z | -3.963 | 4.15 |
| 120 | MP3C | Mx | -.000253 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -1.424 | 1 |
| 2 | MP2A | Z | -2.467 | 1 |
| 3 | MP2A | Mx | -.000712 | 1 |
| 4 | MP2B | X | -1.508 | 1 |
| 5 | MP2B | Z | -2.611 | 1 |
| 6 | MP2B | Mx | -.000262 | 1 |
| 7 | MP2C | X | -1.151 | 1 |
| 8 | MP2C | Z | -1.993 | 1 |
| 9 | MP2C | Mx | .001 | 1 |
| 10 | MP2A | X | -5.788 | 2.5 |
| 11 | MP2A | Z | -10.026 | 2.5 |
| 12 | MP2A | Mx | -.003 | 2.5 |
| 13 | MP2B | X | -6.208 | 2.5 |
| 14 | MP2B | Z | -10.753 | 2.5 |
| 15 | MP2B | Mx | -.001 | 2.5 |
| 16 | MP2C | X | -4.415 | 2.5 |
| 17 | MP2C | Z | -7.647 | 2.5 |
| 18 | MP2C | Mx | .004 | 2.5 |
| 19 | MP3A | X | -5.607 | 2.5 |
| 20 | MP3A | Z | -9.712 | 2.5 |
| 21 | MP3A | Mx | -.003 | 2.5 |
| 22 | MP3B | X | -6.186 | 2.5 |
| 23 | MP3B | Z | -10.715 | 2.5 |
| 24 | MP3B | Mx | -.001 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP3C | X | -3.711 | 2.5 |
| 26 | MP3C | Z | -6.428 | 2.5 |
| 27 | MP3C | Mx | .004 | 2.5 |
| 28 | MP2A | X | -12.873 | 1.4 |
| 29 | MP2A | Z | -22.296 | 1.4 |
| 30 | MP2A | Mx | -.002 | 1.4 |
| 31 | MP2A | X | -12.873 | 4.9 |
| 32 | MP2A | Z | -22.296 | 4.9 |
| 33 | MP2A | Mx | -.002 | 4.9 |
| 34 | MP2B | X | -13.85 | 1.4 |
| 35 | MP2B | Z | -23.989 | 1.4 |
| 36 | MP2B | Mx | .026 | 1.4 |
| 37 | MP2B | X | -13.85 | 4.9 |
| 38 | MP2B | Z | -23.989 | 4.9 |
| 39 | MP2B | Mx | .026 | 4.9 |
| 40 | MP2C | X | -9.671 | 1.4 |
| 41 | MP2C | Z | -16.751 | 1.4 |
| 42 | MP2C | Mx | -.024 | 1.4 |
| 43 | MP2C | X | -9.671 | 4.9 |
| 44 | MP2C | Z | -16.751 | 4.9 |
| 45 | MP2C | Mx | -.024 | 4.9 |
| 46 | MP2A | X | -12.873 | 1.4 |
| 47 | MP2A | Z | -22.296 | 1.4 |
| 48 | MP2A | Mx | .031 | 1.4 |
| 49 | MP2A | X | -12.873 | 4.9 |
| 50 | MP2A | Z | -22.296 | 4.9 |
| 51 | MP2A | Mx | .031 | 4.9 |
| 52 | MP2B | X | -13.85 | 1.4 |
| 53 | MP2B | Z | -23.989 | 1.4 |
| 54 | MP2B | Mx | -.015 | 1.4 |
| 55 | MP2B | X | -13.85 | 4.9 |
| 56 | MP2B | Z | -23.989 | 4.9 |
| 57 | MP2B | Mx | -.015 | 4.9 |
| 58 | MP2C | X | -9.671 | 1.4 |
| 59 | MP2C | Z | -16.751 | 1.4 |
| 60 | MP2C | Mx | -.019 | 1.4 |
| 61 | MP2C | X | -9.671 | 4.9 |
| 62 | MP2C | Z | -16.751 | 4.9 |
| 63 | MP2C | Mx | -.019 | 4.9 |
| 64 | MP1C | X | -13.244 | .25 |
| 65 | MP1C | Z | -22.939 | .25 |
| 66 | MP1C | Mx | -.034 | .25 |
| 67 | MP1C | X | -13.244 | 5.08 |
| 68 | MP1C | Z | -22.939 | 5.08 |
| 69 | MP1C | Mx | -.034 | 5.08 |
| 70 | MP4C | X | -13.244 | .25 |
| 71 | MP4C | Z | -22.939 | .25 |
| 72 | MP4C | Mx | -.034 | .25 |
| 73 | MP4C | X | -13.244 | 5.08 |
| 74 | MP4C | Z | -22.939 | 5.08 |
| 75 | MP4C | Mx | -.034 | 5.08 |
| 76 | MP1A | X | -8.656 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 77 | MP1A | Z | -14.992 | .25 |
| 78 | MP1A | Mx | .011 | .25 |
| 79 | MP1A | X | -8.656 | 5.08 |
| 80 | MP1A | Z | -14.992 | 5.08 |
| 81 | MP1A | Mx | .011 | 5.08 |
| 82 | MP1B | X | -7.301 | .25 |
| 83 | MP1B | Z | -12.646 | .25 |
| 84 | MP1B | Mx | .003 | .25 |
| 85 | MP1B | X | -7.301 | 5.08 |
| 86 | MP1B | Z | -12.646 | 5.08 |
| 87 | MP1B | Mx | .003 | 5.08 |
| 88 | MP4A | X | -8.656 | .25 |
| 89 | MP4A | Z | -14.992 | .25 |
| 90 | MP4A | Mx | .011 | .25 |
| 91 | MP4A | X | -8.656 | 5.08 |
| 92 | MP4A | Z | -14.992 | 5.08 |
| 93 | MP4A | Mx | .011 | 5.08 |
| 94 | MP4B | X | -7.301 | .25 |
| 95 | MP4B | Z | -12.646 | .25 |
| 96 | MP4B | Mx | .003 | .25 |
| 97 | MP4B | X | -7.301 | 5.08 |
| 98 | MP4B | Z | -12.646 | 5.08 |
| 99 | MP4B | Mx | .003 | 5.08 |
| 100 | M103 | X | -11.101 | 1 |
| 101 | M103 | Z | -19.227 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -5.13 | 2.15 |
| 104 | MP3A | Z | -8.886 | 2.15 |
| 105 | MP3A | Mx | .000214 | 2.15 |
| 106 | MP3A | X | -5.13 | 4.15 |
| 107 | MP3A | Z | -8.886 | 4.15 |
| 108 | MP3A | Mx | .000214 | 4.15 |
| 109 | MP3B | X | -5.893 | 2.15 |
| 110 | MP3B | Z | -10.206 | 2.15 |
| 111 | MP3B | Mx | 8.5e-5 | 2.15 |
| 112 | MP3B | X | -5.893 | 4.15 |
| 113 | MP3B | Z | -10.206 | 4.15 |
| 114 | MP3B | Mx | 8.5e-5 | 4.15 |
| 115 | MP3C | X | -2.635 | 2.15 |
| 116 | MP3C | Z | -4.563 | 2.15 |
| 117 | MP3C | Mx | -.000216 | 2.15 |
| 118 | MP3C | X | -2.635 | 4.15 |
| 119 | MP3C | Z | -4.563 | 4.15 |
| 120 | MP3C | Mx | -.000216 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 1 |
| 2 | MP2A | Z | -.747 | 1 |
| 3 | MP2A | Mx | 0 | 1 |
| 4 | MP2B | X | 0 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 5 | MP2B | Z | -.652 | 1 |
| 6 | MP2B | Mx | -.00021 | 1 |
| 7 | MP2C | X | 0 | 1 |
| 8 | MP2C | Z | -.544 | 1 |
| 9 | MP2C | Mx | .000256 | 1 |
| 10 | MP2A | X | 0 | 2.5 |
| 11 | MP2A | Z | -3.128 | 2.5 |
| 12 | MP2A | Mx | 0 | 2.5 |
| 13 | MP2B | X | 0 | 2.5 |
| 14 | MP2B | Z | -2.703 | 2.5 |
| 15 | MP2B | Mx | -.000869 | 2.5 |
| 16 | MP2C | X | 0 | 2.5 |
| 17 | MP2C | Z | -2.219 | 2.5 |
| 18 | MP2C | Mx | .001 | 2.5 |
| 19 | MP3A | X | 0 | 2.5 |
| 20 | MP3A | Z | -3.128 | 2.5 |
| 21 | MP3A | Mx | 0 | 2.5 |
| 22 | MP3B | X | 0 | 2.5 |
| 23 | MP3B | Z | -2.545 | 2.5 |
| 24 | MP3B | Mx | -.000818 | 2.5 |
| 25 | MP3C | X | 0 | 2.5 |
| 26 | MP3C | Z | -1.881 | 2.5 |
| 27 | MP3C | Mx | .000884 | 2.5 |
| 28 | MP2A | X | 0 | 1.4 |
| 29 | MP2A | Z | -9.193 | 1.4 |
| 30 | MP2A | Mx | -.007 | 1.4 |
| 31 | MP2A | X | 0 | 4.9 |
| 32 | MP2A | Z | -9.193 | 4.9 |
| 33 | MP2A | Mx | -.007 | 4.9 |
| 34 | MP2B | X | 0 | 1.4 |
| 35 | MP2B | Z | -7.89 | 1.4 |
| 36 | MP2B | Mx | .01 | 1.4 |
| 37 | MP2B | X | 0 | 4.9 |
| 38 | MP2B | Z | -7.89 | 4.9 |
| 39 | MP2B | Mx | .01 | 4.9 |
| 40 | MP2C | X | 0 | 1.4 |
| 41 | MP2C | Z | -6.407 | 1.4 |
| 42 | MP2C | Mx | -.005 | 1.4 |
| 43 | MP2C | X | 0 | 4.9 |
| 44 | MP2C | Z | -6.407 | 4.9 |
| 45 | MP2C | Mx | -.005 | 4.9 |
| 46 | MP2A | X | 0 | 1.4 |
| 47 | MP2A | Z | -9.193 | 1.4 |
| 48 | MP2A | Mx | .007 | 1.4 |
| 49 | MP2A | X | 0 | 4.9 |
| 50 | MP2A | Z | -9.193 | 4.9 |
| 51 | MP2A | Mx | .007 | 4.9 |
| 52 | MP2B | X | 0 | 1.4 |
| 53 | MP2B | Z | -7.89 | 1.4 |
| 54 | MP2B | Mx | .001 | 1.4 |
| 55 | MP2B | X | 0 | 4.9 |
| 56 | MP2B | Z | -7.89 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 57 | MP2B | Mx | .001 | 4.9 |
| 58 | MP2C | X | 0 | 1.4 |
| 59 | MP2C | Z | -6.407 | 1.4 |
| 60 | MP2C | Mx | -.008 | 1.4 |
| 61 | MP2C | X | 0 | 4.9 |
| 62 | MP2C | Z | -6.407 | 4.9 |
| 63 | MP2C | Mx | -.008 | 4.9 |
| 64 | MP1C | X | 0 | .25 |
| 65 | MP1C | Z | -8.774 | .25 |
| 66 | MP1C | Mx | -.011 | .25 |
| 67 | MP1C | X | 0 | 5.08 |
| 68 | MP1C | Z | -8.774 | 5.08 |
| 69 | MP1C | Mx | -.011 | 5.08 |
| 70 | MP4C | X | 0 | .25 |
| 71 | MP4C | Z | -8.774 | .25 |
| 72 | MP4C | Mx | -.011 | .25 |
| 73 | MP4C | X | 0 | 5.08 |
| 74 | MP4C | Z | -8.774 | 5.08 |
| 75 | MP4C | Mx | -.011 | 5.08 |
| 76 | MP1A | X | 0 | .25 |
| 77 | MP1A | Z | -4.37 | .25 |
| 78 | MP1A | Mx | 0 | .25 |
| 79 | MP1A | X | 0 | 5.08 |
| 80 | MP1A | Z | -4.37 | 5.08 |
| 81 | MP1A | Mx | 0 | 5.08 |
| 82 | MP1B | X | 0 | .25 |
| 83 | MP1B | Z | -6.162 | .25 |
| 84 | MP1B | Mx | .005 | .25 |
| 85 | MP1B | X | 0 | 5.08 |
| 86 | MP1B | Z | -6.162 | 5.08 |
| 87 | MP1B | Mx | .005 | 5.08 |
| 88 | MP4A | X | 0 | .25 |
| 89 | MP4A | Z | -4.37 | .25 |
| 90 | MP4A | Mx | 0 | .25 |
| 91 | MP4A | X | 0 | 5.08 |
| 92 | MP4A | Z | -4.37 | 5.08 |
| 93 | MP4A | Mx | 0 | 5.08 |
| 94 | MP4B | X | 0 | .25 |
| 95 | MP4B | Z | -6.162 | .25 |
| 96 | MP4B | Mx | .005 | .25 |
| 97 | MP4B | X | 0 | 5.08 |
| 98 | MP4B | Z | -6.162 | 5.08 |
| 99 | MP4B | Mx | .005 | 5.08 |
| 100 | M103 | X | 0 | 1 |
| 101 | M103 | Z | -6.149 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 0 | 2.15 |
| 104 | MP3A | Z | -3.153 | 2.15 |
| 105 | MP3A | Mx | 0 | 2.15 |
| 106 | MP3A | X | 0 | 4.15 |
| 107 | MP3A | Z | -3.153 | 4.15 |
| 108 | MP3A | Mx | 0 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 109 | MP3B | X | 0 | 2.15 |
| 110 | MP3B | Z | -2.308 | 2.15 |
| 111 | MP3B | Mx | 6.2e-5 | 2.15 |
| 112 | MP3B | X | 0 | 4.15 |
| 113 | MP3B | Z | -2.308 | 4.15 |
| 114 | MP3B | Mx | 6.2e-5 | 4.15 |
| 115 | MP3C | X | 0 | 2.15 |
| 116 | MP3C | Z | -1.347 | 2.15 |
| 117 | MP3C | Mx | -5.3e-5 | 2.15 |
| 118 | MP3C | X | 0 | 4.15 |
| 119 | MP3C | Z | -1.347 | 4.15 |
| 120 | MP3C | Mx | -5.3e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | .345 | 1 |
| 2 | MP2A | Z | -.597 | 1 |
| 3 | MP2A | Mx | .000172 | 1 |
| 4 | MP2B | X | .272 | 1 |
| 5 | MP2B | Z | -.471 | 1 |
| 6 | MP2B | Mx | -.000256 | 1 |
| 7 | MP2C | X | .326 | 1 |
| 8 | MP2C | Z | -.564 | 1 |
| 9 | MP2C | Mx | .000209 | 1 |
| 10 | MP2A | X | 1.436 | 2.5 |
| 11 | MP2A | Z | -2.486 | 2.5 |
| 12 | MP2A | Mx | .000718 | 2.5 |
| 13 | MP2B | X | 1.11 | 2.5 |
| 14 | MP2B | Z | -1.922 | 2.5 |
| 15 | MP2B | Mx | -.001 | 2.5 |
| 16 | MP2C | X | 1.352 | 2.5 |
| 17 | MP2C | Z | -2.341 | 2.5 |
| 18 | MP2C | Mx | .000869 | 2.5 |
| 19 | MP3A | X | 1.388 | 2.5 |
| 20 | MP3A | Z | -2.403 | 2.5 |
| 21 | MP3A | Mx | .000694 | 2.5 |
| 22 | MP3B | X | .94 | 2.5 |
| 23 | MP3B | Z | -1.629 | 2.5 |
| 24 | MP3B | Mx | -.000884 | 2.5 |
| 25 | MP3C | X | 1.272 | 2.5 |
| 26 | MP3C | Z | -2.204 | 2.5 |
| 27 | MP3C | Mx | .000818 | 2.5 |
| 28 | MP2A | X | 4.202 | 1.4 |
| 29 | MP2A | Z | -7.279 | 1.4 |
| 30 | MP2A | Mx | -.01 | 1.4 |
| 31 | MP2A | X | 4.202 | 4.9 |
| 32 | MP2A | Z | -7.279 | 4.9 |
| 33 | MP2A | Mx | -.01 | 4.9 |
| 34 | MP2B | X | 3.204 | 1.4 |
| 35 | MP2B | Z | -5.549 | 1.4 |
| 36 | MP2B | Mx | .008 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 37 | MP2B | X | 3.204 | 4.9 |
| 38 | MP2B | Z | -5.549 | 4.9 |
| 39 | MP2B | Mx | .008 | 4.9 |
| 40 | MP2C | X | 3.945 | 1.4 |
| 41 | MP2C | Z | -6.833 | 1.4 |
| 42 | MP2C | Mx | -.001 | 1.4 |
| 43 | MP2C | X | 3.945 | 4.9 |
| 44 | MP2C | Z | -6.833 | 4.9 |
| 45 | MP2C | Mx | -.001 | 4.9 |
| 46 | MP2A | X | 4.202 | 1.4 |
| 47 | MP2A | Z | -7.279 | 1.4 |
| 48 | MP2A | Mx | .000732 | 1.4 |
| 49 | MP2A | X | 4.202 | 4.9 |
| 50 | MP2A | Z | -7.279 | 4.9 |
| 51 | MP2A | Mx | .000732 | 4.9 |
| 52 | MP2B | X | 3.204 | 1.4 |
| 53 | MP2B | Z | -5.549 | 1.4 |
| 54 | MP2B | Mx | .005 | 1.4 |
| 55 | MP2B | X | 3.204 | 4.9 |
| 56 | MP2B | Z | -5.549 | 4.9 |
| 57 | MP2B | Mx | .005 | 4.9 |
| 58 | MP2C | X | 3.945 | 1.4 |
| 59 | MP2C | Z | -6.833 | 1.4 |
| 60 | MP2C | Mx | -.01 | 1.4 |
| 61 | MP2C | X | 3.945 | 4.9 |
| 62 | MP2C | Z | -6.833 | 4.9 |
| 63 | MP2C | Mx | -.01 | 4.9 |
| 64 | MP1C | X | 4.63 | .25 |
| 65 | MP1C | Z | -8.02 | .25 |
| 66 | MP1C | Mx | -.008 | .25 |
| 67 | MP1C | X | 4.63 | 5.08 |
| 68 | MP1C | Z | -8.02 | 5.08 |
| 69 | MP1C | Mx | -.008 | 5.08 |
| 70 | MP4C | X | 4.63 | .25 |
| 71 | MP4C | Z | -8.02 | .25 |
| 72 | MP4C | Mx | -.008 | .25 |
| 73 | MP4C | X | 4.63 | 5.08 |
| 74 | MP4C | Z | -8.02 | 5.08 |
| 75 | MP4C | Mx | -.008 | 5.08 |
| 76 | MP1A | X | 2.727 | .25 |
| 77 | MP1A | Z | -4.723 | .25 |
| 78 | MP1A | Mx | -.004 | .25 |
| 79 | MP1A | X | 2.727 | 5.08 |
| 80 | MP1A | Z | -4.723 | 5.08 |
| 81 | MP1A | Mx | -.004 | 5.08 |
| 82 | MP1B | X | 4.1 | .25 |
| 83 | MP1B | Z | -7.101 | .25 |
| 84 | MP1B | Mx | .01 | .25 |
| 85 | MP1B | X | 4.1 | 5.08 |
| 86 | MP1B | Z | -7.101 | 5.08 |
| 87 | MP1B | Mx | .01 | 5.08 |
| 88 | MP4A | X | 2.727 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 89 | MP4A | Z | -4.723 | .25 |
| 90 | MP4A | Mx | -.004 | .25 |
| 91 | MP4A | X | 2.727 | 5.08 |
| 92 | MP4A | Z | -4.723 | 5.08 |
| 93 | MP4A | Mx | -.004 | 5.08 |
| 94 | MP4B | X | 4.1 | .25 |
| 95 | MP4B | Z | -7.101 | .25 |
| 96 | MP4B | Mx | .01 | .25 |
| 97 | MP4B | X | 4.1 | 5.08 |
| 98 | MP4B | Z | -7.101 | 5.08 |
| 99 | MP4B | Mx | .01 | 5.08 |
| 100 | M103 | X | 3.141 | 1 |
| 101 | M103 | Z | -5.44 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 1.321 | 2.15 |
| 104 | MP3A | Z | -2.288 | 2.15 |
| 105 | MP3A | Mx | -5.5e-5 | 2.15 |
| 106 | MP3A | X | 1.321 | 4.15 |
| 107 | MP3A | Z | -2.288 | 4.15 |
| 108 | MP3A | Mx | -5.5e-5 | 4.15 |
| 109 | MP3B | X | .673 | 2.15 |
| 110 | MP3B | Z | -1.167 | 2.15 |
| 111 | MP3B | Mx | 5.3e-5 | 2.15 |
| 112 | MP3B | X | .673 | 4.15 |
| 113 | MP3B | Z | -1.167 | 4.15 |
| 114 | MP3B | Mx | 5.3e-5 | 4.15 |
| 115 | MP3C | X | 1.154 | 2.15 |
| 116 | MP3C | Z | -1.999 | 2.15 |
| 117 | MP3C | Mx | -6.2e-5 | 2.15 |
| 118 | MP3C | X | 1.154 | 4.15 |
| 119 | MP3C | Z | -1.999 | 4.15 |
| 120 | MP3C | Mx | -6.2e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | .497 | 1 |
| 2 | MP2A | Z | -.287 | 1 |
| 3 | MP2A | Mx | .000249 | 1 |
| 4 | MP2B | X | .453 | 1 |
| 5 | MP2B | Z | -.262 | 1 |
| 6 | MP2B | Mx | -.000258 | 1 |
| 7 | MP2C | X | .641 | 1 |
| 8 | MP2C | Z | -.37 | 1 |
| 9 | MP2C | Mx | 6.4e-5 | 1 |
| 10 | MP2A | X | 2.041 | 2.5 |
| 11 | MP2A | Z | -1.178 | 2.5 |
| 12 | MP2A | Mx | .001 | 2.5 |
| 13 | MP2B | X | 1.845 | 2.5 |
| 14 | MP2B | Z | -1.065 | 2.5 |
| 15 | MP2B | Mx | -.001 | 2.5 |
| 16 | MP2C | X | 2.682 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP2C | Z | -1.549 | 2.5 |
| 18 | MP2C | Mx | .000269 | 2.5 |
| 19 | MP3A | X | 1.792 | 2.5 |
| 20 | MP3A | Z | -1.034 | 2.5 |
| 21 | MP3A | Mx | .000896 | 2.5 |
| 22 | MP3B | X | 1.523 | 2.5 |
| 23 | MP3B | Z | -.879 | 2.5 |
| 24 | MP3B | Mx | -.000866 | 2.5 |
| 25 | MP3C | X | 2.672 | 2.5 |
| 26 | MP3C | Z | -1.543 | 2.5 |
| 27 | MP3C | Mx | .000268 | 2.5 |
| 28 | MP2A | X | 5.912 | 1.4 |
| 29 | MP2A | Z | -3.413 | 1.4 |
| 30 | MP2A | Mx | -.009 | 1.4 |
| 31 | MP2A | X | 5.912 | 4.9 |
| 32 | MP2A | Z | -3.413 | 4.9 |
| 33 | MP2A | Mx | -.009 | 4.9 |
| 34 | MP2B | X | 5.312 | 1.4 |
| 35 | MP2B | Z | -3.067 | 1.4 |
| 36 | MP2B | Mx | .006 | 1.4 |
| 37 | MP2B | X | 5.312 | 4.9 |
| 38 | MP2B | Z | -3.067 | 4.9 |
| 39 | MP2B | Mx | .006 | 4.9 |
| 40 | MP2C | X | 7.879 | 1.4 |
| 41 | MP2C | Z | -4.549 | 1.4 |
| 42 | MP2C | Mx | .005 | 1.4 |
| 43 | MP2C | X | 7.879 | 4.9 |
| 44 | MP2C | Z | -4.549 | 4.9 |
| 45 | MP2C | Mx | .005 | 4.9 |
| 46 | MP2A | X | 5.912 | 1.4 |
| 47 | MP2A | Z | -3.413 | 1.4 |
| 48 | MP2A | Mx | -.004 | 1.4 |
| 49 | MP2A | X | 5.912 | 4.9 |
| 50 | MP2A | Z | -3.413 | 4.9 |
| 51 | MP2A | Mx | -.004 | 4.9 |
| 52 | MP2B | X | 5.312 | 1.4 |
| 53 | MP2B | Z | -3.067 | 1.4 |
| 54 | MP2B | Mx | .008 | 1.4 |
| 55 | MP2B | X | 5.312 | 4.9 |
| 56 | MP2B | Z | -3.067 | 4.9 |
| 57 | MP2B | Mx | .008 | 4.9 |
| 58 | MP2C | X | 7.879 | 1.4 |
| 59 | MP2C | Z | -4.549 | 1.4 |
| 60 | MP2C | Mx | -.008 | 1.4 |
| 61 | MP2C | X | 7.879 | 4.9 |
| 62 | MP2C | Z | -4.549 | 4.9 |
| 63 | MP2C | Mx | -.008 | 4.9 |
| 64 | MP1C | X | 8.363 | .25 |
| 65 | MP1C | Z | -4.828 | .25 |
| 66 | MP1C | Mx | -.002 | .25 |
| 67 | MP1C | X | 8.363 | 5.08 |
| 68 | MP1C | Z | -4.828 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 69 | MP1C | Mx | -.002 | 5.08 |
| 70 | MP4C | X | 8.363 | .25 |
| 71 | MP4C | Z | -4.828 | .25 |
| 72 | MP4C | Mx | -.002 | .25 |
| 73 | MP4C | X | 8.363 | 5.08 |
| 74 | MP4C | Z | -4.828 | 5.08 |
| 75 | MP4C | Mx | -.002 | 5.08 |
| 76 | MP1A | X | 6.602 | .25 |
| 77 | MP1A | Z | -3.811 | .25 |
| 78 | MP1A | Mx | -.009 | .25 |
| 79 | MP1A | X | 6.602 | 5.08 |
| 80 | MP1A | Z | -3.811 | 5.08 |
| 81 | MP1A | Mx | -.009 | 5.08 |
| 82 | MP1B | X | 7.428 | .25 |
| 83 | MP1B | Z | -4.288 | .25 |
| 84 | MP1B | Mx | .011 | .25 |
| 85 | MP1B | X | 7.428 | 5.08 |
| 86 | MP1B | Z | -4.288 | 5.08 |
| 87 | MP1B | Mx | .011 | 5.08 |
| 88 | MP4A | X | 6.602 | .25 |
| 89 | MP4A | Z | -3.811 | .25 |
| 90 | MP4A | Mx | -.009 | .25 |
| 91 | MP4A | X | 6.602 | 5.08 |
| 92 | MP4A | Z | -3.811 | 5.08 |
| 93 | MP4A | Mx | -.009 | 5.08 |
| 94 | MP4B | X | 7.428 | .25 |
| 95 | MP4B | Z | -4.288 | .25 |
| 96 | MP4B | Mx | .011 | .25 |
| 97 | MP4B | X | 7.428 | 5.08 |
| 98 | MP4B | Z | -4.288 | 5.08 |
| 99 | MP4B | Mx | .011 | 5.08 |
| 100 | M103 | X | 4.936 | 1 |
| 101 | M103 | Z | -2.85 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 1.402 | 2.15 |
| 104 | MP3A | Z | -.81 | 2.15 |
| 105 | MP3A | Mx | -5.8e-5 | 2.15 |
| 106 | MP3A | X | 1.402 | 4.15 |
| 107 | MP3A | Z | -.81 | 4.15 |
| 108 | MP3A | Mx | -5.8e-5 | 4.15 |
| 109 | MP3B | X | 1.013 | 2.15 |
| 110 | MP3B | Z | -.585 | 2.15 |
| 111 | MP3B | Mx | 4.8e-5 | 2.15 |
| 112 | MP3B | X | 1.013 | 4.15 |
| 113 | MP3B | Z | -.585 | 4.15 |
| 114 | MP3B | Mx | 4.8e-5 | 4.15 |
| 115 | MP3C | X | 2.678 | 2.15 |
| 116 | MP3C | Z | -1.546 | 2.15 |
| 117 | MP3C | Mx | -2.2e-5 | 2.15 |
| 118 | MP3C | X | 2.678 | 4.15 |
| 119 | MP3C | Z | -1.546 | 4.15 |
| 120 | MP3C | Mx | -2.2e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | .517 | 1 |
| 2 | MP2A | Z | 0 | 1 |
| 3 | MP2A | Mx | .000259 | 1 |
| 4 | MP2B | X | .612 | 1 |
| 5 | MP2B | Z | 0 | 1 |
| 6 | MP2B | Mx | -.000234 | 1 |
| 7 | MP2C | X | .72 | 1 |
| 8 | MP2C | Z | 0 | 1 |
| 9 | MP2C | Mx | -.000123 | 1 |
| 10 | MP2A | X | 2.099 | 2.5 |
| 11 | MP2A | Z | 0 | 2.5 |
| 12 | MP2A | Mx | .001 | 2.5 |
| 13 | MP2B | X | 2.524 | 2.5 |
| 14 | MP2B | Z | 0 | 2.5 |
| 15 | MP2B | Mx | -.000967 | 2.5 |
| 16 | MP2C | X | 3.008 | 2.5 |
| 17 | MP2C | Z | 0 | 2.5 |
| 18 | MP2C | Mx | -.000514 | 2.5 |
| 19 | MP3A | X | 1.716 | 2.5 |
| 20 | MP3A | Z | 0 | 2.5 |
| 21 | MP3A | Mx | .000858 | 2.5 |
| 22 | MP3B | X | 2.299 | 2.5 |
| 23 | MP3B | Z | 0 | 2.5 |
| 24 | MP3B | Mx | -.000881 | 2.5 |
| 25 | MP3C | X | 2.963 | 2.5 |
| 26 | MP3C | Z | 0 | 2.5 |
| 27 | MP3C | Mx | -.000507 | 2.5 |
| 28 | MP2A | X | 6.038 | 1.4 |
| 29 | MP2A | Z | 0 | 1.4 |
| 30 | MP2A | Mx | -.007 | 1.4 |
| 31 | MP2A | X | 6.038 | 4.9 |
| 32 | MP2A | Z | 0 | 4.9 |
| 33 | MP2A | Mx | -.007 | 4.9 |
| 34 | MP2B | X | 7.342 | 1.4 |
| 35 | MP2B | Z | 0 | 1.4 |
| 36 | MP2B | Mx | .003 | 1.4 |
| 37 | MP2B | X | 7.342 | 4.9 |
| 38 | MP2B | Z | 0 | 4.9 |
| 39 | MP2B | Mx | .003 | 4.9 |
| 40 | MP2C | X | 8.824 | 1.4 |
| 41 | MP2C | Z | 0 | 1.4 |
| 42 | MP2C | Mx | .01 | 1.4 |
| 43 | MP2C | X | 8.824 | 4.9 |
| 44 | MP2C | Z | 0 | 4.9 |
| 45 | MP2C | Mx | .01 | 4.9 |
| 46 | MP2A | X | 6.038 | 1.4 |
| 47 | MP2A | Z | 0 | 1.4 |
| 48 | MP2A | Mx | -.007 | 1.4 |
| 49 | MP2A | X | 6.038 | 4.9 |
| 50 | MP2A | Z | 0 | 4.9 |
| 51 | MP2A | Mx | -.007 | 4.9 |
| 52 | MP2B | X | 7.342 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 53 | MP2B | Z | 0 | 1.4 |
| 54 | MP2B | Mx | .01 | 1.4 |
| 55 | MP2B | X | 7.342 | 4.9 |
| 56 | MP2B | Z | 0 | 4.9 |
| 57 | MP2B | Mx | .01 | 4.9 |
| 58 | MP2C | X | 8.824 | 1.4 |
| 59 | MP2C | Z | 0 | 1.4 |
| 60 | MP2C | Mx | -.003 | 1.4 |
| 61 | MP2C | X | 8.824 | 4.9 |
| 62 | MP2C | Z | 0 | 4.9 |
| 63 | MP2C | Mx | -.003 | 4.9 |
| 64 | MP1C | X | 9.567 | .25 |
| 65 | MP1C | Z | 0 | .25 |
| 66 | MP1C | Mx | .004 | .25 |
| 67 | MP1C | X | 9.567 | 5.08 |
| 68 | MP1C | Z | 0 | 5.08 |
| 69 | MP1C | Mx | .004 | 5.08 |
| 70 | MP4C | X | 9.567 | .25 |
| 71 | MP4C | Z | 0 | .25 |
| 72 | MP4C | Mx | .004 | .25 |
| 73 | MP4C | X | 9.567 | 5.08 |
| 74 | MP4C | Z | 0 | 5.08 |
| 75 | MP4C | Mx | .004 | 5.08 |
| 76 | MP1A | X | 8.707 | .25 |
| 77 | MP1A | Z | 0 | .25 |
| 78 | MP1A | Mx | -.011 | .25 |
| 79 | MP1A | X | 8.707 | 5.08 |
| 80 | MP1A | Z | 0 | 5.08 |
| 81 | MP1A | Mx | -.011 | 5.08 |
| 82 | MP1B | X | 6.915 | .25 |
| 83 | MP1B | Z | 0 | .25 |
| 84 | MP1B | Mx | .007 | .25 |
| 85 | MP1B | X | 6.915 | 5.08 |
| 86 | MP1B | Z | 0 | 5.08 |
| 87 | MP1B | Mx | .007 | 5.08 |
| 88 | MP4A | X | 8.707 | .25 |
| 89 | MP4A | Z | 0 | .25 |
| 90 | MP4A | Mx | -.011 | .25 |
| 91 | MP4A | X | 8.707 | 5.08 |
| 92 | MP4A | Z | 0 | 5.08 |
| 93 | MP4A | Mx | -.011 | 5.08 |
| 94 | MP4B | X | 6.915 | .25 |
| 95 | MP4B | Z | 0 | .25 |
| 96 | MP4B | Mx | .007 | .25 |
| 97 | MP4B | X | 6.915 | 5.08 |
| 98 | MP4B | Z | 0 | 5.08 |
| 99 | MP4B | Mx | .007 | 5.08 |
| 100 | M103 | X | 4.987 | 1 |
| 101 | M103 | Z | 0 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 1.108 | 2.15 |
| 104 | MP3A | Z | 0 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 105 | MP3A | Mx | -4.6e-5 | 2.15 |
| 106 | MP3A | X | 1.108 | 4.15 |
| 107 | MP3A | Z | 0 | 4.15 |
| 108 | MP3A | Mx | -4.6e-5 | 4.15 |
| 109 | MP3B | X | 1.953 | 2.15 |
| 110 | MP3B | Z | 0 | 2.15 |
| 111 | MP3B | Mx | 6.2e-5 | 2.15 |
| 112 | MP3B | X | 1.953 | 4.15 |
| 113 | MP3B | Z | 0 | 4.15 |
| 114 | MP3B | Mx | 6.2e-5 | 4.15 |
| 115 | MP3C | X | 2.914 | 2.15 |
| 116 | MP3C | Z | 0 | 2.15 |
| 117 | MP3C | Mx | 4.2e-5 | 2.15 |
| 118 | MP3C | X | 2.914 | 4.15 |
| 119 | MP3C | Z | 0 | 4.15 |
| 120 | MP3C | Mx | 4.2e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | .497 | 1 |
| 2 | MP2A | Z | .287 | 1 |
| 3 | MP2A | Mx | .000249 | 1 |
| 4 | MP2B | X | .623 | 1 |
| 5 | MP2B | Z | .36 | 1 |
| 6 | MP2B | Mx | -.000123 | 1 |
| 7 | MP2C | X | .53 | 1 |
| 8 | MP2C | Z | .306 | 1 |
| 9 | MP2C | Mx | -.000234 | 1 |
| 10 | MP2A | X | 2.041 | 2.5 |
| 11 | MP2A | Z | 1.178 | 2.5 |
| 12 | MP2A | Mx | .001 | 2.5 |
| 13 | MP2B | X | 2.605 | 2.5 |
| 14 | MP2B | Z | 1.504 | 2.5 |
| 15 | MP2B | Mx | -.000514 | 2.5 |
| 16 | MP2C | X | 2.186 | 2.5 |
| 17 | MP2C | Z | 1.262 | 2.5 |
| 18 | MP2C | Mx | -.000967 | 2.5 |
| 19 | MP3A | X | 1.792 | 2.5 |
| 20 | MP3A | Z | 1.034 | 2.5 |
| 21 | MP3A | Mx | .000896 | 2.5 |
| 22 | MP3B | X | 2.566 | 2.5 |
| 23 | MP3B | Z | 1.482 | 2.5 |
| 24 | MP3B | Mx | -.000507 | 2.5 |
| 25 | MP3C | X | 1.991 | 2.5 |
| 26 | MP3C | Z | 1.15 | 2.5 |
| 27 | MP3C | Mx | -.000881 | 2.5 |
| 28 | MP2A | X | 5.912 | 1.4 |
| 29 | MP2A | Z | 3.413 | 1.4 |
| 30 | MP2A | Mx | -.004 | 1.4 |
| 31 | MP2A | X | 5.912 | 4.9 |
| 32 | MP2A | Z | 3.413 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 33 | MP2A | Mx | -.004 | 4.9 |
| 34 | MP2B | X | 7.642 | 1.4 |
| 35 | MP2B | Z | 4.412 | 1.4 |
| 36 | MP2B | Mx | -.003 | 1.4 |
| 37 | MP2B | X | 7.642 | 4.9 |
| 38 | MP2B | Z | 4.412 | 4.9 |
| 39 | MP2B | Mx | -.003 | 4.9 |
| 40 | MP2C | X | 6.358 | 1.4 |
| 41 | MP2C | Z | 3.671 | 1.4 |
| 42 | MP2C | Mx | .01 | 1.4 |
| 43 | MP2C | X | 6.358 | 4.9 |
| 44 | MP2C | Z | 3.671 | 4.9 |
| 45 | MP2C | Mx | .01 | 4.9 |
| 46 | MP2A | X | 5.912 | 1.4 |
| 47 | MP2A | Z | 3.413 | 1.4 |
| 48 | MP2A | Mx | -.009 | 1.4 |
| 49 | MP2A | X | 5.912 | 4.9 |
| 50 | MP2A | Z | 3.413 | 4.9 |
| 51 | MP2A | Mx | -.009 | 4.9 |
| 52 | MP2B | X | 7.642 | 1.4 |
| 53 | MP2B | Z | 4.412 | 1.4 |
| 54 | MP2B | Mx | .01 | 1.4 |
| 55 | MP2B | X | 7.642 | 4.9 |
| 56 | MP2B | Z | 4.412 | 4.9 |
| 57 | MP2B | Mx | .01 | 4.9 |
| 58 | MP2C | X | 6.358 | 1.4 |
| 59 | MP2C | Z | 3.671 | 1.4 |
| 60 | MP2C | Mx | .003 | 1.4 |
| 61 | MP2C | X | 6.358 | 4.9 |
| 62 | MP2C | Z | 3.671 | 4.9 |
| 63 | MP2C | Mx | .003 | 4.9 |
| 64 | MP1C | X | 7.864 | .25 |
| 65 | MP1C | Z | 4.54 | .25 |
| 66 | MP1C | Mx | .009 | .25 |
| 67 | MP1C | X | 7.864 | 5.08 |
| 68 | MP1C | Z | 4.54 | 5.08 |
| 69 | MP1C | Mx | .009 | 5.08 |
| 70 | MP4C | X | 7.864 | .25 |
| 71 | MP4C | Z | 4.54 | .25 |
| 72 | MP4C | Mx | .009 | .25 |
| 73 | MP4C | X | 7.864 | 5.08 |
| 74 | MP4C | Z | 4.54 | 5.08 |
| 75 | MP4C | Mx | .009 | 5.08 |
| 76 | MP1A | X | 6.602 | .25 |
| 77 | MP1A | Z | 3.811 | .25 |
| 78 | MP1A | Mx | -.009 | .25 |
| 79 | MP1A | X | 6.602 | 5.08 |
| 80 | MP1A | Z | 3.811 | 5.08 |
| 81 | MP1A | Mx | -.009 | 5.08 |
| 82 | MP1B | X | 4.224 | .25 |
| 83 | MP1B | Z | 2.439 | .25 |
| 84 | MP1B | Mx | .002 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 85 | MP1B | X | 4.224 | 5.08 |
| 86 | MP1B | Z | 2.439 | 5.08 |
| 87 | MP1B | Mx | .002 | 5.08 |
| 88 | MP4A | X | 6.602 | .25 |
| 89 | MP4A | Z | 3.811 | .25 |
| 90 | MP4A | Mx | -.009 | .25 |
| 91 | MP4A | X | 6.602 | 5.08 |
| 92 | MP4A | Z | 3.811 | 5.08 |
| 93 | MP4A | Mx | -.009 | 5.08 |
| 94 | MP4B | X | 4.224 | .25 |
| 95 | MP4B | Z | 2.439 | .25 |
| 96 | MP4B | Mx | .002 | .25 |
| 97 | MP4B | X | 4.224 | 5.08 |
| 98 | MP4B | Z | 2.439 | 5.08 |
| 99 | MP4B | Mx | .002 | 5.08 |
| 100 | M103 | X | 4.205 | 1 |
| 101 | M103 | Z | 2.428 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 1.402 | 2.15 |
| 104 | MP3A | Z | .81 | 2.15 |
| 105 | MP3A | Mx | -5.8e-5 | 2.15 |
| 106 | MP3A | X | 1.402 | 4.15 |
| 107 | MP3A | Z | .81 | 4.15 |
| 108 | MP3A | Mx | -5.8e-5 | 4.15 |
| 109 | MP3B | X | 2.524 | 2.15 |
| 110 | MP3B | Z | 1.457 | 2.15 |
| 111 | MP3B | Mx | 4.2e-5 | 2.15 |
| 112 | MP3B | X | 2.524 | 4.15 |
| 113 | MP3B | Z | 1.457 | 4.15 |
| 114 | MP3B | Mx | 4.2e-5 | 4.15 |
| 115 | MP3C | X | 1.691 | 2.15 |
| 116 | MP3C | Z | .976 | 2.15 |
| 117 | MP3C | Mx | 6.2e-5 | 2.15 |
| 118 | MP3C | X | 1.691 | 4.15 |
| 119 | MP3C | Z | .976 | 4.15 |
| 120 | MP3C | Mx | 6.2e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | .345 | 1 |
| 2 | MP2A | Z | .597 | 1 |
| 3 | MP2A | Mx | .000172 | 1 |
| 4 | MP2B | X | .37 | 1 |
| 5 | MP2B | Z | .641 | 1 |
| 6 | MP2B | Mx | 6.4e-5 | 1 |
| 7 | MP2C | X | .262 | 1 |
| 8 | MP2C | Z | .453 | 1 |
| 9 | MP2C | Mx | -.000258 | 1 |
| 10 | MP2A | X | 1.436 | 2.5 |
| 11 | MP2A | Z | 2.486 | 2.5 |
| 12 | MP2A | Mx | .000718 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 13 | MP2B | X | 1.549 | 2.5 |
| 14 | MP2B | Z | 2.682 | 2.5 |
| 15 | MP2B | Mx | .000269 | 2.5 |
| 16 | MP2C | X | 1.065 | 2.5 |
| 17 | MP2C | Z | 1.845 | 2.5 |
| 18 | MP2C | Mx | -.001 | 2.5 |
| 19 | MP3A | X | 1.388 | 2.5 |
| 20 | MP3A | Z | 2.403 | 2.5 |
| 21 | MP3A | Mx | .000694 | 2.5 |
| 22 | MP3B | X | 1.543 | 2.5 |
| 23 | MP3B | Z | 2.672 | 2.5 |
| 24 | MP3B | Mx | .000268 | 2.5 |
| 25 | MP3C | X | .879 | 2.5 |
| 26 | MP3C | Z | 1.523 | 2.5 |
| 27 | MP3C | Mx | -.000866 | 2.5 |
| 28 | MP2A | X | 4.202 | 1.4 |
| 29 | MP2A | Z | 7.279 | 1.4 |
| 30 | MP2A | Mx | .000732 | 1.4 |
| 31 | MP2A | X | 4.202 | 4.9 |
| 32 | MP2A | Z | 7.279 | 4.9 |
| 33 | MP2A | Mx | .000732 | 4.9 |
| 34 | MP2B | X | 4.549 | 1.4 |
| 35 | MP2B | Z | 7.879 | 1.4 |
| 36 | MP2B | Mx | -.008 | 1.4 |
| 37 | MP2B | X | 4.549 | 4.9 |
| 38 | MP2B | Z | 7.879 | 4.9 |
| 39 | MP2B | Mx | -.008 | 4.9 |
| 40 | MP2C | X | 3.067 | 1.4 |
| 41 | MP2C | Z | 5.312 | 1.4 |
| 42 | MP2C | Mx | .008 | 1.4 |
| 43 | MP2C | X | 3.067 | 4.9 |
| 44 | MP2C | Z | 5.312 | 4.9 |
| 45 | MP2C | Mx | .008 | 4.9 |
| 46 | MP2A | X | 4.202 | 1.4 |
| 47 | MP2A | Z | 7.279 | 1.4 |
| 48 | MP2A | Mx | -.01 | 1.4 |
| 49 | MP2A | X | 4.202 | 4.9 |
| 50 | MP2A | Z | 7.279 | 4.9 |
| 51 | MP2A | Mx | -.01 | 4.9 |
| 52 | MP2B | X | 4.549 | 1.4 |
| 53 | MP2B | Z | 7.879 | 1.4 |
| 54 | MP2B | Mx | .005 | 1.4 |
| 55 | MP2B | X | 4.549 | 4.9 |
| 56 | MP2B | Z | 7.879 | 4.9 |
| 57 | MP2B | Mx | .005 | 4.9 |
| 58 | MP2C | X | 3.067 | 1.4 |
| 59 | MP2C | Z | 5.312 | 1.4 |
| 60 | MP2C | Mx | .006 | 1.4 |
| 61 | MP2C | X | 3.067 | 4.9 |
| 62 | MP2C | Z | 5.312 | 4.9 |
| 63 | MP2C | Mx | .006 | 4.9 |
| 64 | MP1C | X | 4.342 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 65 | MP1C | Z | 7.521 | .25 |
| 66 | MP1C | Mx | .011 | .25 |
| 67 | MP1C | X | 4.342 | 5.08 |
| 68 | MP1C | Z | 7.521 | 5.08 |
| 69 | MP1C | Mx | .011 | 5.08 |
| 70 | MP4C | X | 4.342 | .25 |
| 71 | MP4C | Z | 7.521 | .25 |
| 72 | MP4C | Mx | .011 | .25 |
| 73 | MP4C | X | 4.342 | 5.08 |
| 74 | MP4C | Z | 7.521 | 5.08 |
| 75 | MP4C | Mx | .011 | 5.08 |
| 76 | MP1A | X | 2.727 | .25 |
| 77 | MP1A | Z | 4.723 | .25 |
| 78 | MP1A | Mx | -.004 | .25 |
| 79 | MP1A | X | 2.727 | 5.08 |
| 80 | MP1A | Z | 4.723 | 5.08 |
| 81 | MP1A | Mx | -.004 | 5.08 |
| 82 | MP1B | X | 2.25 | .25 |
| 83 | MP1B | Z | 3.898 | .25 |
| 84 | MP1B | Mx | -.001 | .25 |
| 85 | MP1B | X | 2.25 | 5.08 |
| 86 | MP1B | Z | 3.898 | 5.08 |
| 87 | MP1B | Mx | -.001 | 5.08 |
| 88 | MP4A | X | 2.727 | .25 |
| 89 | MP4A | Z | 4.723 | .25 |
| 90 | MP4A | Mx | -.004 | .25 |
| 91 | MP4A | X | 2.727 | 5.08 |
| 92 | MP4A | Z | 4.723 | 5.08 |
| 93 | MP4A | Mx | -.004 | 5.08 |
| 94 | MP4B | X | 2.25 | .25 |
| 95 | MP4B | Z | 3.898 | .25 |
| 96 | MP4B | Mx | -.001 | .25 |
| 97 | MP4B | X | 2.25 | 5.08 |
| 98 | MP4B | Z | 3.898 | 5.08 |
| 99 | MP4B | Mx | -.001 | 5.08 |
| 100 | M103 | X | 2.718 | 1 |
| 101 | M103 | Z | 4.708 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 1.321 | 2.15 |
| 104 | MP3A | Z | 2.288 | 2.15 |
| 105 | MP3A | Mx | -5.5e-5 | 2.15 |
| 106 | MP3A | X | 1.321 | 4.15 |
| 107 | MP3A | Z | 2.288 | 4.15 |
| 108 | MP3A | Mx | -5.5e-5 | 4.15 |
| 109 | MP3B | X | 1.546 | 2.15 |
| 110 | MP3B | Z | 2.678 | 2.15 |
| 111 | MP3B | Mx | -2.2e-5 | 2.15 |
| 112 | MP3B | X | 1.546 | 4.15 |
| 113 | MP3B | Z | 2.678 | 4.15 |
| 114 | MP3B | Mx | -2.2e-5 | 4.15 |
| 115 | MP3C | X | .585 | 2.15 |
| 116 | MP3C | Z | 1.013 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 117 | MP3C | Mx | 4.8e-5 | 2.15 |
| 118 | MP3C | X | .585 | 4.15 |
| 119 | MP3C | Z | 1.013 | 4.15 |
| 120 | MP3C | Mx | 4.8e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | 0 | 1 |
| 2 | MP2A | Z | .747 | 1 |
| 3 | MP2A | Mx | 0 | 1 |
| 4 | MP2B | X | 0 | 1 |
| 5 | MP2B | Z | .652 | 1 |
| 6 | MP2B | Mx | .00021 | 1 |
| 7 | MP2C | X | 0 | 1 |
| 8 | MP2C | Z | .544 | 1 |
| 9 | MP2C | Mx | -.000256 | 1 |
| 10 | MP2A | X | 0 | 2.5 |
| 11 | MP2A | Z | 3.128 | 2.5 |
| 12 | MP2A | Mx | 0 | 2.5 |
| 13 | MP2B | X | 0 | 2.5 |
| 14 | MP2B | Z | 2.703 | 2.5 |
| 15 | MP2B | Mx | .000869 | 2.5 |
| 16 | MP2C | X | 0 | 2.5 |
| 17 | MP2C | Z | 2.219 | 2.5 |
| 18 | MP2C | Mx | -.001 | 2.5 |
| 19 | MP3A | X | 0 | 2.5 |
| 20 | MP3A | Z | 3.128 | 2.5 |
| 21 | MP3A | Mx | 0 | 2.5 |
| 22 | MP3B | X | 0 | 2.5 |
| 23 | MP3B | Z | 2.545 | 2.5 |
| 24 | MP3B | Mx | .000818 | 2.5 |
| 25 | MP3C | X | 0 | 2.5 |
| 26 | MP3C | Z | 1.881 | 2.5 |
| 27 | MP3C | Mx | -.000884 | 2.5 |
| 28 | MP2A | X | 0 | 1.4 |
| 29 | MP2A | Z | 9.193 | 1.4 |
| 30 | MP2A | Mx | .007 | 1.4 |
| 31 | MP2A | X | 0 | 4.9 |
| 32 | MP2A | Z | 9.193 | 4.9 |
| 33 | MP2A | Mx | .007 | 4.9 |
| 34 | MP2B | X | 0 | 1.4 |
| 35 | MP2B | Z | 7.89 | 1.4 |
| 36 | MP2B | Mx | -.01 | 1.4 |
| 37 | MP2B | X | 0 | 4.9 |
| 38 | MP2B | Z | 7.89 | 4.9 |
| 39 | MP2B | Mx | -.01 | 4.9 |
| 40 | MP2C | X | 0 | 1.4 |
| 41 | MP2C | Z | 6.407 | 1.4 |
| 42 | MP2C | Mx | .005 | 1.4 |
| 43 | MP2C | X | 0 | 4.9 |
| 44 | MP2C | Z | 6.407 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 45 | MP2C | Mx | .005 | 4.9 |
| 46 | MP2A | X | 0 | 1.4 |
| 47 | MP2A | Z | 9.193 | 1.4 |
| 48 | MP2A | Mx | -.007 | 1.4 |
| 49 | MP2A | X | 0 | 4.9 |
| 50 | MP2A | Z | 9.193 | 4.9 |
| 51 | MP2A | Mx | -.007 | 4.9 |
| 52 | MP2B | X | 0 | 1.4 |
| 53 | MP2B | Z | 7.89 | 1.4 |
| 54 | MP2B | Mx | -.001 | 1.4 |
| 55 | MP2B | X | 0 | 4.9 |
| 56 | MP2B | Z | 7.89 | 4.9 |
| 57 | MP2B | Mx | -.001 | 4.9 |
| 58 | MP2C | X | 0 | 1.4 |
| 59 | MP2C | Z | 6.407 | 1.4 |
| 60 | MP2C | Mx | .008 | 1.4 |
| 61 | MP2C | X | 0 | 4.9 |
| 62 | MP2C | Z | 6.407 | 4.9 |
| 63 | MP2C | Mx | .008 | 4.9 |
| 64 | MP1C | X | 0 | .25 |
| 65 | MP1C | Z | 8.774 | .25 |
| 66 | MP1C | Mx | .011 | .25 |
| 67 | MP1C | X | 0 | 5.08 |
| 68 | MP1C | Z | 8.774 | 5.08 |
| 69 | MP1C | Mx | .011 | 5.08 |
| 70 | MP4C | X | 0 | .25 |
| 71 | MP4C | Z | 8.774 | .25 |
| 72 | MP4C | Mx | .011 | .25 |
| 73 | MP4C | X | 0 | 5.08 |
| 74 | MP4C | Z | 8.774 | 5.08 |
| 75 | MP4C | Mx | .011 | 5.08 |
| 76 | MP1A | X | 0 | .25 |
| 77 | MP1A | Z | 4.37 | .25 |
| 78 | MP1A | Mx | 0 | .25 |
| 79 | MP1A | X | 0 | 5.08 |
| 80 | MP1A | Z | 4.37 | 5.08 |
| 81 | MP1A | Mx | 0 | 5.08 |
| 82 | MP1B | X | 0 | .25 |
| 83 | MP1B | Z | 6.162 | .25 |
| 84 | MP1B | Mx | -.005 | .25 |
| 85 | MP1B | X | 0 | 5.08 |
| 86 | MP1B | Z | 6.162 | 5.08 |
| 87 | MP1B | Mx | -.005 | 5.08 |
| 88 | MP4A | X | 0 | .25 |
| 89 | MP4A | Z | 4.37 | .25 |
| 90 | MP4A | Mx | 0 | .25 |
| 91 | MP4A | X | 0 | 5.08 |
| 92 | MP4A | Z | 4.37 | 5.08 |
| 93 | MP4A | Mx | 0 | 5.08 |
| 94 | MP4B | X | 0 | .25 |
| 95 | MP4B | Z | 6.162 | .25 |
| 96 | MP4B | Mx | -.005 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 97 | MP4B | X | 0 | 5.08 |
| 98 | MP4B | Z | 6.162 | 5.08 |
| 99 | MP4B | Mx | -.005 | 5.08 |
| 100 | M103 | X | 0 | 1 |
| 101 | M103 | Z | 6.149 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | 0 | 2.15 |
| 104 | MP3A | Z | 3.153 | 2.15 |
| 105 | MP3A | Mx | 0 | 2.15 |
| 106 | MP3A | X | 0 | 4.15 |
| 107 | MP3A | Z | 3.153 | 4.15 |
| 108 | MP3A | Mx | 0 | 4.15 |
| 109 | MP3B | X | 0 | 2.15 |
| 110 | MP3B | Z | 2.308 | 2.15 |
| 111 | MP3B | Mx | -6.2e-5 | 2.15 |
| 112 | MP3B | X | 0 | 4.15 |
| 113 | MP3B | Z | 2.308 | 4.15 |
| 114 | MP3B | Mx | -6.2e-5 | 4.15 |
| 115 | MP3C | X | 0 | 2.15 |
| 116 | MP3C | Z | 1.347 | 2.15 |
| 117 | MP3C | Mx | 5.3e-5 | 2.15 |
| 118 | MP3C | X | 0 | 4.15 |
| 119 | MP3C | Z | 1.347 | 4.15 |
| 120 | MP3C | Mx | 5.3e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -.345 | 1 |
| 2 | MP2A | Z | .597 | 1 |
| 3 | MP2A | Mx | -.000172 | 1 |
| 4 | MP2B | X | -.272 | 1 |
| 5 | MP2B | Z | .471 | 1 |
| 6 | MP2B | Mx | .000256 | 1 |
| 7 | MP2C | X | -.326 | 1 |
| 8 | MP2C | Z | .564 | 1 |
| 9 | MP2C | Mx | -.000209 | 1 |
| 10 | MP2A | X | -1.436 | 2.5 |
| 11 | MP2A | Z | 2.486 | 2.5 |
| 12 | MP2A | Mx | -.000718 | 2.5 |
| 13 | MP2B | X | -1.11 | 2.5 |
| 14 | MP2B | Z | 1.922 | 2.5 |
| 15 | MP2B | Mx | .001 | 2.5 |
| 16 | MP2C | X | -1.352 | 2.5 |
| 17 | MP2C | Z | 2.341 | 2.5 |
| 18 | MP2C | Mx | -.000869 | 2.5 |
| 19 | MP3A | X | -1.388 | 2.5 |
| 20 | MP3A | Z | 2.403 | 2.5 |
| 21 | MP3A | Mx | -.000694 | 2.5 |
| 22 | MP3B | X | -.94 | 2.5 |
| 23 | MP3B | Z | 1.629 | 2.5 |
| 24 | MP3B | Mx | .000884 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 25 | MP3C | X | -1.272 | 2.5 |
| 26 | MP3C | Z | 2.204 | 2.5 |
| 27 | MP3C | Mx | -.000818 | 2.5 |
| 28 | MP2A | X | -4.202 | 1.4 |
| 29 | MP2A | Z | 7.279 | 1.4 |
| 30 | MP2A | Mx | .01 | 1.4 |
| 31 | MP2A | X | -4.202 | 4.9 |
| 32 | MP2A | Z | 7.279 | 4.9 |
| 33 | MP2A | Mx | .01 | 4.9 |
| 34 | MP2B | X | -3.204 | 1.4 |
| 35 | MP2B | Z | 5.549 | 1.4 |
| 36 | MP2B | Mx | -.008 | 1.4 |
| 37 | MP2B | X | -3.204 | 4.9 |
| 38 | MP2B | Z | 5.549 | 4.9 |
| 39 | MP2B | Mx | -.008 | 4.9 |
| 40 | MP2C | X | -3.945 | 1.4 |
| 41 | MP2C | Z | 6.833 | 1.4 |
| 42 | MP2C | Mx | .001 | 1.4 |
| 43 | MP2C | X | -3.945 | 4.9 |
| 44 | MP2C | Z | 6.833 | 4.9 |
| 45 | MP2C | Mx | .001 | 4.9 |
| 46 | MP2A | X | -4.202 | 1.4 |
| 47 | MP2A | Z | 7.279 | 1.4 |
| 48 | MP2A | Mx | -.000732 | 1.4 |
| 49 | MP2A | X | -4.202 | 4.9 |
| 50 | MP2A | Z | 7.279 | 4.9 |
| 51 | MP2A | Mx | -.000732 | 4.9 |
| 52 | MP2B | X | -3.204 | 1.4 |
| 53 | MP2B | Z | 5.549 | 1.4 |
| 54 | MP2B | Mx | -.005 | 1.4 |
| 55 | MP2B | X | -3.204 | 4.9 |
| 56 | MP2B | Z | 5.549 | 4.9 |
| 57 | MP2B | Mx | -.005 | 4.9 |
| 58 | MP2C | X | -3.945 | 1.4 |
| 59 | MP2C | Z | 6.833 | 1.4 |
| 60 | MP2C | Mx | .01 | 1.4 |
| 61 | MP2C | X | -3.945 | 4.9 |
| 62 | MP2C | Z | 6.833 | 4.9 |
| 63 | MP2C | Mx | .01 | 4.9 |
| 64 | MP1C | X | -4.63 | .25 |
| 65 | MP1C | Z | 8.02 | .25 |
| 66 | MP1C | Mx | .008 | .25 |
| 67 | MP1C | X | -4.63 | 5.08 |
| 68 | MP1C | Z | 8.02 | 5.08 |
| 69 | MP1C | Mx | .008 | 5.08 |
| 70 | MP4C | X | -4.63 | .25 |
| 71 | MP4C | Z | 8.02 | .25 |
| 72 | MP4C | Mx | .008 | .25 |
| 73 | MP4C | X | -4.63 | 5.08 |
| 74 | MP4C | Z | 8.02 | 5.08 |
| 75 | MP4C | Mx | .008 | 5.08 |
| 76 | MP1A | X | -2.727 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 77 | MP1A | Z | 4.723 | .25 |
| 78 | MP1A | Mx | .004 | .25 |
| 79 | MP1A | X | -2.727 | 5.08 |
| 80 | MP1A | Z | 4.723 | 5.08 |
| 81 | MP1A | Mx | .004 | 5.08 |
| 82 | MP1B | X | -4.1 | .25 |
| 83 | MP1B | Z | 7.101 | .25 |
| 84 | MP1B | Mx | -.01 | .25 |
| 85 | MP1B | X | -4.1 | 5.08 |
| 86 | MP1B | Z | 7.101 | 5.08 |
| 87 | MP1B | Mx | -.01 | 5.08 |
| 88 | MP4A | X | -2.727 | .25 |
| 89 | MP4A | Z | 4.723 | .25 |
| 90 | MP4A | Mx | .004 | .25 |
| 91 | MP4A | X | -2.727 | 5.08 |
| 92 | MP4A | Z | 4.723 | 5.08 |
| 93 | MP4A | Mx | .004 | 5.08 |
| 94 | MP4B | X | -4.1 | .25 |
| 95 | MP4B | Z | 7.101 | .25 |
| 96 | MP4B | Mx | -.01 | .25 |
| 97 | MP4B | X | -4.1 | 5.08 |
| 98 | MP4B | Z | 7.101 | 5.08 |
| 99 | MP4B | Mx | -.01 | 5.08 |
| 100 | M103 | X | -3.141 | 1 |
| 101 | M103 | Z | 5.44 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -1.321 | 2.15 |
| 104 | MP3A | Z | 2.288 | 2.15 |
| 105 | MP3A | Mx | 5.5e-5 | 2.15 |
| 106 | MP3A | X | -1.321 | 4.15 |
| 107 | MP3A | Z | 2.288 | 4.15 |
| 108 | MP3A | Mx | 5.5e-5 | 4.15 |
| 109 | MP3B | X | -.673 | 2.15 |
| 110 | MP3B | Z | 1.167 | 2.15 |
| 111 | MP3B | Mx | -5.3e-5 | 2.15 |
| 112 | MP3B | X | -.673 | 4.15 |
| 113 | MP3B | Z | 1.167 | 4.15 |
| 114 | MP3B | Mx | -5.3e-5 | 4.15 |
| 115 | MP3C | X | -1.154 | 2.15 |
| 116 | MP3C | Z | 1.999 | 2.15 |
| 117 | MP3C | Mx | 6.2e-5 | 2.15 |
| 118 | MP3C | X | -1.154 | 4.15 |
| 119 | MP3C | Z | 1.999 | 4.15 |
| 120 | MP3C | Mx | 6.2e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -.497 | 1 |
| 2 | MP2A | Z | .287 | 1 |
| 3 | MP2A | Mx | -.000249 | 1 |
| 4 | MP2B | X | -.453 | 1 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 5 | MP2B | Z | .262 | 1 |
| 6 | MP2B | Mx | .000258 | 1 |
| 7 | MP2C | X | -.641 | 1 |
| 8 | MP2C | Z | .37 | 1 |
| 9 | MP2C | Mx | -6.4e-5 | 1 |
| 10 | MP2A | X | -2.041 | 2.5 |
| 11 | MP2A | Z | 1.178 | 2.5 |
| 12 | MP2A | Mx | -.001 | 2.5 |
| 13 | MP2B | X | -1.845 | 2.5 |
| 14 | MP2B | Z | 1.065 | 2.5 |
| 15 | MP2B | Mx | .001 | 2.5 |
| 16 | MP2C | X | -2.682 | 2.5 |
| 17 | MP2C | Z | 1.549 | 2.5 |
| 18 | MP2C | Mx | -.000269 | 2.5 |
| 19 | MP3A | X | -1.792 | 2.5 |
| 20 | MP3A | Z | 1.034 | 2.5 |
| 21 | MP3A | Mx | -.000896 | 2.5 |
| 22 | MP3B | X | -1.523 | 2.5 |
| 23 | MP3B | Z | .879 | 2.5 |
| 24 | MP3B | Mx | .000866 | 2.5 |
| 25 | MP3C | X | -2.672 | 2.5 |
| 26 | MP3C | Z | 1.543 | 2.5 |
| 27 | MP3C | Mx | -.000268 | 2.5 |
| 28 | MP2A | X | -5.912 | 1.4 |
| 29 | MP2A | Z | 3.413 | 1.4 |
| 30 | MP2A | Mx | .009 | 1.4 |
| 31 | MP2A | X | -5.912 | 4.9 |
| 32 | MP2A | Z | 3.413 | 4.9 |
| 33 | MP2A | Mx | .009 | 4.9 |
| 34 | MP2B | X | -5.312 | 1.4 |
| 35 | MP2B | Z | 3.067 | 1.4 |
| 36 | MP2B | Mx | -.006 | 1.4 |
| 37 | MP2B | X | -5.312 | 4.9 |
| 38 | MP2B | Z | 3.067 | 4.9 |
| 39 | MP2B | Mx | -.006 | 4.9 |
| 40 | MP2C | X | -7.879 | 1.4 |
| 41 | MP2C | Z | 4.549 | 1.4 |
| 42 | MP2C | Mx | -.005 | 1.4 |
| 43 | MP2C | X | -7.879 | 4.9 |
| 44 | MP2C | Z | 4.549 | 4.9 |
| 45 | MP2C | Mx | -.005 | 4.9 |
| 46 | MP2A | X | -5.912 | 1.4 |
| 47 | MP2A | Z | 3.413 | 1.4 |
| 48 | MP2A | Mx | .004 | 1.4 |
| 49 | MP2A | X | -5.912 | 4.9 |
| 50 | MP2A | Z | 3.413 | 4.9 |
| 51 | MP2A | Mx | .004 | 4.9 |
| 52 | MP2B | X | -5.312 | 1.4 |
| 53 | MP2B | Z | 3.067 | 1.4 |
| 54 | MP2B | Mx | -.008 | 1.4 |
| 55 | MP2B | X | -5.312 | 4.9 |
| 56 | MP2B | Z | 3.067 | 4.9 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 57 | MP2B | Mx | -.008 | 4.9 |
| 58 | MP2C | X | -7.879 | 1.4 |
| 59 | MP2C | Z | 4.549 | 1.4 |
| 60 | MP2C | Mx | .008 | 1.4 |
| 61 | MP2C | X | -7.879 | 4.9 |
| 62 | MP2C | Z | 4.549 | 4.9 |
| 63 | MP2C | Mx | .008 | 4.9 |
| 64 | MP1C | X | -8.363 | .25 |
| 65 | MP1C | Z | 4.828 | .25 |
| 66 | MP1C | Mx | .002 | .25 |
| 67 | MP1C | X | -8.363 | 5.08 |
| 68 | MP1C | Z | 4.828 | 5.08 |
| 69 | MP1C | Mx | .002 | 5.08 |
| 70 | MP4C | X | -8.363 | .25 |
| 71 | MP4C | Z | 4.828 | .25 |
| 72 | MP4C | Mx | .002 | .25 |
| 73 | MP4C | X | -8.363 | 5.08 |
| 74 | MP4C | Z | 4.828 | 5.08 |
| 75 | MP4C | Mx | .002 | 5.08 |
| 76 | MP1A | X | -6.602 | .25 |
| 77 | MP1A | Z | 3.811 | .25 |
| 78 | MP1A | Mx | .009 | .25 |
| 79 | MP1A | X | -6.602 | 5.08 |
| 80 | MP1A | Z | 3.811 | 5.08 |
| 81 | MP1A | Mx | .009 | 5.08 |
| 82 | MP1B | X | -7.428 | .25 |
| 83 | MP1B | Z | 4.288 | .25 |
| 84 | MP1B | Mx | -.011 | .25 |
| 85 | MP1B | X | -7.428 | 5.08 |
| 86 | MP1B | Z | 4.288 | 5.08 |
| 87 | MP1B | Mx | -.011 | 5.08 |
| 88 | MP4A | X | -6.602 | .25 |
| 89 | MP4A | Z | 3.811 | .25 |
| 90 | MP4A | Mx | .009 | .25 |
| 91 | MP4A | X | -6.602 | 5.08 |
| 92 | MP4A | Z | 3.811 | 5.08 |
| 93 | MP4A | Mx | .009 | 5.08 |
| 94 | MP4B | X | -7.428 | .25 |
| 95 | MP4B | Z | 4.288 | .25 |
| 96 | MP4B | Mx | -.011 | .25 |
| 97 | MP4B | X | -7.428 | 5.08 |
| 98 | MP4B | Z | 4.288 | 5.08 |
| 99 | MP4B | Mx | -.011 | 5.08 |
| 100 | M103 | X | -4.936 | 1 |
| 101 | M103 | Z | 2.85 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -1.402 | 2.15 |
| 104 | MP3A | Z | .81 | 2.15 |
| 105 | MP3A | Mx | 5.8e-5 | 2.15 |
| 106 | MP3A | X | -1.402 | 4.15 |
| 107 | MP3A | Z | .81 | 4.15 |
| 108 | MP3A | Mx | 5.8e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 109 | MP3B | X | -1.013 | 2.15 |
| 110 | MP3B | Z | .585 | 2.15 |
| 111 | MP3B | Mx | -4.8e-5 | 2.15 |
| 112 | MP3B | X | -1.013 | 4.15 |
| 113 | MP3B | Z | .585 | 4.15 |
| 114 | MP3B | Mx | -4.8e-5 | 4.15 |
| 115 | MP3C | X | -2.678 | 2.15 |
| 116 | MP3C | Z | 1.546 | 2.15 |
| 117 | MP3C | Mx | 2.2e-5 | 2.15 |
| 118 | MP3C | X | -2.678 | 4.15 |
| 119 | MP3C | Z | 1.546 | 4.15 |
| 120 | MP3C | Mx | 2.2e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -.517 | 1 |
| 2 | MP2A | Z | 0 | 1 |
| 3 | MP2A | Mx | -.000259 | 1 |
| 4 | MP2B | X | -.612 | 1 |
| 5 | MP2B | Z | 0 | 1 |
| 6 | MP2B | Mx | .000234 | 1 |
| 7 | MP2C | X | -.72 | 1 |
| 8 | MP2C | Z | 0 | 1 |
| 9 | MP2C | Mx | .000123 | 1 |
| 10 | MP2A | X | -2.099 | 2.5 |
| 11 | MP2A | Z | 0 | 2.5 |
| 12 | MP2A | Mx | -.001 | 2.5 |
| 13 | MP2B | X | -2.524 | 2.5 |
| 14 | MP2B | Z | 0 | 2.5 |
| 15 | MP2B | Mx | .000967 | 2.5 |
| 16 | MP2C | X | -3.008 | 2.5 |
| 17 | MP2C | Z | 0 | 2.5 |
| 18 | MP2C | Mx | .000514 | 2.5 |
| 19 | MP3A | X | -1.716 | 2.5 |
| 20 | MP3A | Z | 0 | 2.5 |
| 21 | MP3A | Mx | -.000858 | 2.5 |
| 22 | MP3B | X | -2.299 | 2.5 |
| 23 | MP3B | Z | 0 | 2.5 |
| 24 | MP3B | Mx | .000881 | 2.5 |
| 25 | MP3C | X | -2.963 | 2.5 |
| 26 | MP3C | Z | 0 | 2.5 |
| 27 | MP3C | Mx | .000507 | 2.5 |
| 28 | MP2A | X | -6.038 | 1.4 |
| 29 | MP2A | Z | 0 | 1.4 |
| 30 | MP2A | Mx | .007 | 1.4 |
| 31 | MP2A | X | -6.038 | 4.9 |
| 32 | MP2A | Z | 0 | 4.9 |
| 33 | MP2A | Mx | .007 | 4.9 |
| 34 | MP2B | X | -7.342 | 1.4 |
| 35 | MP2B | Z | 0 | 1.4 |
| 36 | MP2B | Mx | -.003 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 37 | MP2B | X | -7.342 | 4.9 |
| 38 | MP2B | Z | 0 | 4.9 |
| 39 | MP2B | Mx | -.003 | 4.9 |
| 40 | MP2C | X | -8.824 | 1.4 |
| 41 | MP2C | Z | 0 | 1.4 |
| 42 | MP2C | Mx | -.01 | 1.4 |
| 43 | MP2C | X | -8.824 | 4.9 |
| 44 | MP2C | Z | 0 | 4.9 |
| 45 | MP2C | Mx | -.01 | 4.9 |
| 46 | MP2A | X | -6.038 | 1.4 |
| 47 | MP2A | Z | 0 | 1.4 |
| 48 | MP2A | Mx | .007 | 1.4 |
| 49 | MP2A | X | -6.038 | 4.9 |
| 50 | MP2A | Z | 0 | 4.9 |
| 51 | MP2A | Mx | .007 | 4.9 |
| 52 | MP2B | X | -7.342 | 1.4 |
| 53 | MP2B | Z | 0 | 1.4 |
| 54 | MP2B | Mx | -.01 | 1.4 |
| 55 | MP2B | X | -7.342 | 4.9 |
| 56 | MP2B | Z | 0 | 4.9 |
| 57 | MP2B | Mx | -.01 | 4.9 |
| 58 | MP2C | X | -8.824 | 1.4 |
| 59 | MP2C | Z | 0 | 1.4 |
| 60 | MP2C | Mx | .003 | 1.4 |
| 61 | MP2C | X | -8.824 | 4.9 |
| 62 | MP2C | Z | 0 | 4.9 |
| 63 | MP2C | Mx | .003 | 4.9 |
| 64 | MP1C | X | -9.567 | .25 |
| 65 | MP1C | Z | 0 | .25 |
| 66 | MP1C | Mx | -.004 | .25 |
| 67 | MP1C | X | -9.567 | 5.08 |
| 68 | MP1C | Z | 0 | 5.08 |
| 69 | MP1C | Mx | -.004 | 5.08 |
| 70 | MP4C | X | -9.567 | .25 |
| 71 | MP4C | Z | 0 | .25 |
| 72 | MP4C | Mx | -.004 | .25 |
| 73 | MP4C | X | -9.567 | 5.08 |
| 74 | MP4C | Z | 0 | 5.08 |
| 75 | MP4C | Mx | -.004 | 5.08 |
| 76 | MP1A | X | -8.707 | .25 |
| 77 | MP1A | Z | 0 | .25 |
| 78 | MP1A | Mx | .011 | .25 |
| 79 | MP1A | X | -8.707 | 5.08 |
| 80 | MP1A | Z | 0 | 5.08 |
| 81 | MP1A | Mx | .011 | 5.08 |
| 82 | MP1B | X | -6.915 | .25 |
| 83 | MP1B | Z | 0 | .25 |
| 84 | MP1B | Mx | -.007 | .25 |
| 85 | MP1B | X | -6.915 | 5.08 |
| 86 | MP1B | Z | 0 | 5.08 |
| 87 | MP1B | Mx | -.007 | 5.08 |
| 88 | MP4A | X | -8.707 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 89 | MP4A | Z | 0 | .25 |
| 90 | MP4A | Mx | .011 | .25 |
| 91 | MP4A | X | -8.707 | 5.08 |
| 92 | MP4A | Z | 0 | 5.08 |
| 93 | MP4A | Mx | .011 | 5.08 |
| 94 | MP4B | X | -6.915 | .25 |
| 95 | MP4B | Z | 0 | .25 |
| 96 | MP4B | Mx | -.007 | .25 |
| 97 | MP4B | X | -6.915 | 5.08 |
| 98 | MP4B | Z | 0 | 5.08 |
| 99 | MP4B | Mx | -.007 | 5.08 |
| 100 | M103 | X | -4.987 | 1 |
| 101 | M103 | Z | 0 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -1.108 | 2.15 |
| 104 | MP3A | Z | 0 | 2.15 |
| 105 | MP3A | Mx | 4.6e-5 | 2.15 |
| 106 | MP3A | X | -1.108 | 4.15 |
| 107 | MP3A | Z | 0 | 4.15 |
| 108 | MP3A | Mx | 4.6e-5 | 4.15 |
| 109 | MP3B | X | -1.953 | 2.15 |
| 110 | MP3B | Z | 0 | 2.15 |
| 111 | MP3B | Mx | -6.2e-5 | 2.15 |
| 112 | MP3B | X | -1.953 | 4.15 |
| 113 | MP3B | Z | 0 | 4.15 |
| 114 | MP3B | Mx | -6.2e-5 | 4.15 |
| 115 | MP3C | X | -2.914 | 2.15 |
| 116 | MP3C | Z | 0 | 2.15 |
| 117 | MP3C | Mx | -4.2e-5 | 2.15 |
| 118 | MP3C | X | -2.914 | 4.15 |
| 119 | MP3C | Z | 0 | 4.15 |
| 120 | MP3C | Mx | -4.2e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -.497 | 1 |
| 2 | MP2A | Z | -.287 | 1 |
| 3 | MP2A | Mx | -.000249 | 1 |
| 4 | MP2B | X | -.623 | 1 |
| 5 | MP2B | Z | -.36 | 1 |
| 6 | MP2B | Mx | .000123 | 1 |
| 7 | MP2C | X | -.53 | 1 |
| 8 | MP2C | Z | -.306 | 1 |
| 9 | MP2C | Mx | .000234 | 1 |
| 10 | MP2A | X | -2.041 | 2.5 |
| 11 | MP2A | Z | -1.178 | 2.5 |
| 12 | MP2A | Mx | -.001 | 2.5 |
| 13 | MP2B | X | -2.605 | 2.5 |
| 14 | MP2B | Z | -1.504 | 2.5 |
| 15 | MP2B | Mx | .000514 | 2.5 |
| 16 | MP2C | X | -2.186 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 17 | MP2C | Z | -1.262 | 2.5 |
| 18 | MP2C | Mx | .000967 | 2.5 |
| 19 | MP3A | X | -1.792 | 2.5 |
| 20 | MP3A | Z | -1.034 | 2.5 |
| 21 | MP3A | Mx | -.000896 | 2.5 |
| 22 | MP3B | X | -2.566 | 2.5 |
| 23 | MP3B | Z | -1.482 | 2.5 |
| 24 | MP3B | Mx | .000507 | 2.5 |
| 25 | MP3C | X | -1.991 | 2.5 |
| 26 | MP3C | Z | -1.15 | 2.5 |
| 27 | MP3C | Mx | .000881 | 2.5 |
| 28 | MP2A | X | -5.912 | 1.4 |
| 29 | MP2A | Z | -3.413 | 1.4 |
| 30 | MP2A | Mx | .004 | 1.4 |
| 31 | MP2A | X | -5.912 | 4.9 |
| 32 | MP2A | Z | -3.413 | 4.9 |
| 33 | MP2A | Mx | .004 | 4.9 |
| 34 | MP2B | X | -7.642 | 1.4 |
| 35 | MP2B | Z | -4.412 | 1.4 |
| 36 | MP2B | Mx | .003 | 1.4 |
| 37 | MP2B | X | -7.642 | 4.9 |
| 38 | MP2B | Z | -4.412 | 4.9 |
| 39 | MP2B | Mx | .003 | 4.9 |
| 40 | MP2C | X | -6.358 | 1.4 |
| 41 | MP2C | Z | -3.671 | 1.4 |
| 42 | MP2C | Mx | -.01 | 1.4 |
| 43 | MP2C | X | -6.358 | 4.9 |
| 44 | MP2C | Z | -3.671 | 4.9 |
| 45 | MP2C | Mx | -.01 | 4.9 |
| 46 | MP2A | X | -5.912 | 1.4 |
| 47 | MP2A | Z | -3.413 | 1.4 |
| 48 | MP2A | Mx | .009 | 1.4 |
| 49 | MP2A | X | -5.912 | 4.9 |
| 50 | MP2A | Z | -3.413 | 4.9 |
| 51 | MP2A | Mx | .009 | 4.9 |
| 52 | MP2B | X | -7.642 | 1.4 |
| 53 | MP2B | Z | -4.412 | 1.4 |
| 54 | MP2B | Mx | -.01 | 1.4 |
| 55 | MP2B | X | -7.642 | 4.9 |
| 56 | MP2B | Z | -4.412 | 4.9 |
| 57 | MP2B | Mx | -.01 | 4.9 |
| 58 | MP2C | X | -6.358 | 1.4 |
| 59 | MP2C | Z | -3.671 | 1.4 |
| 60 | MP2C | Mx | -.003 | 1.4 |
| 61 | MP2C | X | -6.358 | 4.9 |
| 62 | MP2C | Z | -3.671 | 4.9 |
| 63 | MP2C | Mx | -.003 | 4.9 |
| 64 | MP1C | X | -7.864 | .25 |
| 65 | MP1C | Z | -4.54 | .25 |
| 66 | MP1C | Mx | -.009 | .25 |
| 67 | MP1C | X | -7.864 | 5.08 |
| 68 | MP1C | Z | -4.54 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 69 | MP1C | Mx | -.009 | 5.08 |
| 70 | MP4C | X | -7.864 | .25 |
| 71 | MP4C | Z | -4.54 | .25 |
| 72 | MP4C | Mx | -.009 | .25 |
| 73 | MP4C | X | -7.864 | 5.08 |
| 74 | MP4C | Z | -4.54 | 5.08 |
| 75 | MP4C | Mx | -.009 | 5.08 |
| 76 | MP1A | X | -6.602 | .25 |
| 77 | MP1A | Z | -3.811 | .25 |
| 78 | MP1A | Mx | .009 | .25 |
| 79 | MP1A | X | -6.602 | 5.08 |
| 80 | MP1A | Z | -3.811 | 5.08 |
| 81 | MP1A | Mx | .009 | 5.08 |
| 82 | MP1B | X | -4.224 | .25 |
| 83 | MP1B | Z | -2.439 | .25 |
| 84 | MP1B | Mx | -.002 | .25 |
| 85 | MP1B | X | -4.224 | 5.08 |
| 86 | MP1B | Z | -2.439 | 5.08 |
| 87 | MP1B | Mx | -.002 | 5.08 |
| 88 | MP4A | X | -6.602 | .25 |
| 89 | MP4A | Z | -3.811 | .25 |
| 90 | MP4A | Mx | .009 | .25 |
| 91 | MP4A | X | -6.602 | 5.08 |
| 92 | MP4A | Z | -3.811 | 5.08 |
| 93 | MP4A | Mx | .009 | 5.08 |
| 94 | MP4B | X | -4.224 | .25 |
| 95 | MP4B | Z | -2.439 | .25 |
| 96 | MP4B | Mx | -.002 | .25 |
| 97 | MP4B | X | -4.224 | 5.08 |
| 98 | MP4B | Z | -2.439 | 5.08 |
| 99 | MP4B | Mx | -.002 | 5.08 |
| 100 | M103 | X | -4.205 | 1 |
| 101 | M103 | Z | -2.428 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -1.402 | 2.15 |
| 104 | MP3A | Z | -.81 | 2.15 |
| 105 | MP3A | Mx | 5.8e-5 | 2.15 |
| 106 | MP3A | X | -1.402 | 4.15 |
| 107 | MP3A | Z | -.81 | 4.15 |
| 108 | MP3A | Mx | 5.8e-5 | 4.15 |
| 109 | MP3B | X | -2.524 | 2.15 |
| 110 | MP3B | Z | -1.457 | 2.15 |
| 111 | MP3B | Mx | -4.2e-5 | 2.15 |
| 112 | MP3B | X | -2.524 | 4.15 |
| 113 | MP3B | Z | -1.457 | 4.15 |
| 114 | MP3B | Mx | -4.2e-5 | 4.15 |
| 115 | MP3C | X | -1.691 | 2.15 |
| 116 | MP3C | Z | -.976 | 2.15 |
| 117 | MP3C | Mx | -6.2e-5 | 2.15 |
| 118 | MP3C | X | -1.691 | 4.15 |
| 119 | MP3C | Z | -.976 | 4.15 |
| 120 | MP3C | Mx | -6.2e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | -.345 | 1 |
| 2 | MP2A | Z | -.597 | 1 |
| 3 | MP2A | Mx | -.000172 | 1 |
| 4 | MP2B | X | -.37 | 1 |
| 5 | MP2B | Z | -.641 | 1 |
| 6 | MP2B | Mx | -6.4e-5 | 1 |
| 7 | MP2C | X | -.262 | 1 |
| 8 | MP2C | Z | -.453 | 1 |
| 9 | MP2C | Mx | .000258 | 1 |
| 10 | MP2A | X | -1.436 | 2.5 |
| 11 | MP2A | Z | -2.486 | 2.5 |
| 12 | MP2A | Mx | -.000718 | 2.5 |
| 13 | MP2B | X | -1.549 | 2.5 |
| 14 | MP2B | Z | -2.682 | 2.5 |
| 15 | MP2B | Mx | -.000269 | 2.5 |
| 16 | MP2C | X | -1.065 | 2.5 |
| 17 | MP2C | Z | -1.845 | 2.5 |
| 18 | MP2C | Mx | .001 | 2.5 |
| 19 | MP3A | X | -1.388 | 2.5 |
| 20 | MP3A | Z | -2.403 | 2.5 |
| 21 | MP3A | Mx | -.000694 | 2.5 |
| 22 | MP3B | X | -1.543 | 2.5 |
| 23 | MP3B | Z | -2.672 | 2.5 |
| 24 | MP3B | Mx | -.000268 | 2.5 |
| 25 | MP3C | X | -.879 | 2.5 |
| 26 | MP3C | Z | -1.523 | 2.5 |
| 27 | MP3C | Mx | .000866 | 2.5 |
| 28 | MP2A | X | -4.202 | 1.4 |
| 29 | MP2A | Z | -7.279 | 1.4 |
| 30 | MP2A | Mx | -.000732 | 1.4 |
| 31 | MP2A | X | -4.202 | 4.9 |
| 32 | MP2A | Z | -7.279 | 4.9 |
| 33 | MP2A | Mx | -.000732 | 4.9 |
| 34 | MP2B | X | -4.549 | 1.4 |
| 35 | MP2B | Z | -7.879 | 1.4 |
| 36 | MP2B | Mx | .008 | 1.4 |
| 37 | MP2B | X | -4.549 | 4.9 |
| 38 | MP2B | Z | -7.879 | 4.9 |
| 39 | MP2B | Mx | .008 | 4.9 |
| 40 | MP2C | X | -3.067 | 1.4 |
| 41 | MP2C | Z | -5.312 | 1.4 |
| 42 | MP2C | Mx | -.008 | 1.4 |
| 43 | MP2C | X | -3.067 | 4.9 |
| 44 | MP2C | Z | -5.312 | 4.9 |
| 45 | MP2C | Mx | -.008 | 4.9 |
| 46 | MP2A | X | -4.202 | 1.4 |
| 47 | MP2A | Z | -7.279 | 1.4 |
| 48 | MP2A | Mx | .01 | 1.4 |
| 49 | MP2A | X | -4.202 | 4.9 |
| 50 | MP2A | Z | -7.279 | 4.9 |
| 51 | MP2A | Mx | .01 | 4.9 |
| 52 | MP2B | X | -4.549 | 1.4 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 53 | MP2B | Z | -7.879 | 1.4 |
| 54 | MP2B | Mx | -.005 | 1.4 |
| 55 | MP2B | X | -4.549 | 4.9 |
| 56 | MP2B | Z | -7.879 | 4.9 |
| 57 | MP2B | Mx | -.005 | 4.9 |
| 58 | MP2C | X | -3.067 | 1.4 |
| 59 | MP2C | Z | -5.312 | 1.4 |
| 60 | MP2C | Mx | -.006 | 1.4 |
| 61 | MP2C | X | -3.067 | 4.9 |
| 62 | MP2C | Z | -5.312 | 4.9 |
| 63 | MP2C | Mx | -.006 | 4.9 |
| 64 | MP1C | X | -4.342 | .25 |
| 65 | MP1C | Z | -7.521 | .25 |
| 66 | MP1C | Mx | -.011 | .25 |
| 67 | MP1C | X | -4.342 | 5.08 |
| 68 | MP1C | Z | -7.521 | 5.08 |
| 69 | MP1C | Mx | -.011 | 5.08 |
| 70 | MP4C | X | -4.342 | .25 |
| 71 | MP4C | Z | -7.521 | .25 |
| 72 | MP4C | Mx | -.011 | .25 |
| 73 | MP4C | X | -4.342 | 5.08 |
| 74 | MP4C | Z | -7.521 | 5.08 |
| 75 | MP4C | Mx | -.011 | 5.08 |
| 76 | MP1A | X | -2.727 | .25 |
| 77 | MP1A | Z | -4.723 | .25 |
| 78 | MP1A | Mx | .004 | .25 |
| 79 | MP1A | X | -2.727 | 5.08 |
| 80 | MP1A | Z | -4.723 | 5.08 |
| 81 | MP1A | Mx | .004 | 5.08 |
| 82 | MP1B | X | -2.25 | .25 |
| 83 | MP1B | Z | -3.898 | .25 |
| 84 | MP1B | Mx | .001 | .25 |
| 85 | MP1B | X | -2.25 | 5.08 |
| 86 | MP1B | Z | -3.898 | 5.08 |
| 87 | MP1B | Mx | .001 | 5.08 |
| 88 | MP4A | X | -2.727 | .25 |
| 89 | MP4A | Z | -4.723 | .25 |
| 90 | MP4A | Mx | .004 | .25 |
| 91 | MP4A | X | -2.727 | 5.08 |
| 92 | MP4A | Z | -4.723 | 5.08 |
| 93 | MP4A | Mx | .004 | 5.08 |
| 94 | MP4B | X | -2.25 | .25 |
| 95 | MP4B | Z | -3.898 | .25 |
| 96 | MP4B | Mx | .001 | .25 |
| 97 | MP4B | X | -2.25 | 5.08 |
| 98 | MP4B | Z | -3.898 | 5.08 |
| 99 | MP4B | Mx | .001 | 5.08 |
| 100 | M103 | X | -2.718 | 1 |
| 101 | M103 | Z | -4.708 | 1 |
| 102 | M103 | Mx | 0 | 1 |
| 103 | MP3A | X | -1.321 | 2.15 |
| 104 | MP3A | Z | -2.288 | 2.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 105 | MP3A | Mx | 5.5e-5 | 2.15 |
| 106 | MP3A | X | -1.321 | 4.15 |
| 107 | MP3A | Z | -2.288 | 4.15 |
| 108 | MP3A | Mx | 5.5e-5 | 4.15 |
| 109 | MP3B | X | -1.546 | 2.15 |
| 110 | MP3B | Z | -2.678 | 2.15 |
| 111 | MP3B | Mx | 2.2e-5 | 2.15 |
| 112 | MP3B | X | -1.546 | 4.15 |
| 113 | MP3B | Z | -2.678 | 4.15 |
| 114 | MP3B | Mx | 2.2e-5 | 4.15 |
| 115 | MP3C | X | -.585 | 2.15 |
| 116 | MP3C | Z | -1.013 | 2.15 |
| 117 | MP3C | Mx | -4.8e-5 | 2.15 |
| 118 | MP3C | X | -.585 | 4.15 |
| 119 | MP3C | Z | -1.013 | 4.15 |
| 120 | MP3C | Mx | -4.8e-5 | 4.15 |

Member Point Loads (BLC 77 : Lm1)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M1 | Y | -500 | %49 |

Member Point Loads (BLC 78 : Lm2)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M1 | Y | -500 | %21 |

Member Point Loads (BLC 79 : Lv1)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M1 | Y | -250 | %50 |

Member Point Loads (BLC 80 : Lv2)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|---|--------------|-----------|--------------------|----------------|
| 1 | M1 | Y | -250 | 0 |

Member Point Loads (BLC 81 : Antenna Ev)

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Y | -.222 | 1 |
| 2 | MP2A | My | .000111 | 1 |
| 3 | MP2A | Mz | 0 | 1 |
| 4 | MP2B | Y | -.222 | 1 |
| 5 | MP2B | My | -8.5e-5 | 1 |
| 6 | MP2B | Mz | 7.1e-5 | 1 |
| 7 | MP2C | Y | -.222 | 1 |
| 8 | MP2C | My | -3.8e-5 | 1 |
| 9 | MP2C | Mz | -.000104 | 1 |
| 10 | MP2A | Y | -1.803 | 2.5 |
| 11 | MP2A | My | .000901 | 2.5 |
| 12 | MP2A | Mz | 0 | 2.5 |
| 13 | MP2B | Y | -1.803 | 2.5 |
| 14 | MP2B | My | -.000691 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 15 | MP2B | Mz | .000579 | 2.5 |
| 16 | MP2C | Y | -1.803 | 2.5 |
| 17 | MP2C | My | -.000308 | 2.5 |
| 18 | MP2C | Mz | -.000847 | 2.5 |
| 19 | MP3A | Y | -1.502 | 2.5 |
| 20 | MP3A | My | .000751 | 2.5 |
| 21 | MP3A | Mz | 0 | 2.5 |
| 22 | MP3B | Y | -1.502 | 2.5 |
| 23 | MP3B | My | -.000575 | 2.5 |
| 24 | MP3B | Mz | .000483 | 2.5 |
| 25 | MP3C | Y | -1.502 | 2.5 |
| 26 | MP3C | My | -.000257 | 2.5 |
| 27 | MP3C | Mz | -.000706 | 2.5 |
| 28 | MP2A | Y | -.676 | 1.4 |
| 29 | MP2A | My | -.000761 | 1.4 |
| 30 | MP2A | Mz | .000507 | 1.4 |
| 31 | MP2A | Y | -.676 | 4.9 |
| 32 | MP2A | My | -.000761 | 4.9 |
| 33 | MP2A | Mz | .000507 | 4.9 |
| 34 | MP2B | Y | -.676 | 1.4 |
| 35 | MP2B | My | .000257 | 1.4 |
| 36 | MP2B | Mz | -.000877 | 1.4 |
| 37 | MP2B | Y | -.676 | 4.9 |
| 38 | MP2B | My | .000257 | 4.9 |
| 39 | MP2B | Mz | -.000877 | 4.9 |
| 40 | MP2C | Y | -.676 | 1.4 |
| 41 | MP2C | My | .000737 | 1.4 |
| 42 | MP2C | Mz | .000541 | 1.4 |
| 43 | MP2C | Y | -.676 | 4.9 |
| 44 | MP2C | My | .000737 | 4.9 |
| 45 | MP2C | Mz | .000541 | 4.9 |
| 46 | MP2A | Y | -.676 | 1.4 |
| 47 | MP2A | My | -.000761 | 1.4 |
| 48 | MP2A | Mz | -.000507 | 1.4 |
| 49 | MP2A | Y | -.676 | 4.9 |
| 50 | MP2A | My | -.000761 | 4.9 |
| 51 | MP2A | Mz | -.000507 | 4.9 |
| 52 | MP2B | Y | -.676 | 1.4 |
| 53 | MP2B | My | .000909 | 1.4 |
| 54 | MP2B | Mz | -.0001 | 1.4 |
| 55 | MP2B | Y | -.676 | 4.9 |
| 56 | MP2B | My | .000909 | 4.9 |
| 57 | MP2B | Mz | -.0001 | 4.9 |
| 58 | MP2C | Y | -.676 | 1.4 |
| 59 | MP2C | My | -.000216 | 1.4 |
| 60 | MP2C | Mz | .000888 | 1.4 |
| 61 | MP2C | Y | -.676 | 4.9 |
| 62 | MP2C | My | -.000216 | 4.9 |
| 63 | MP2C | Mz | .000888 | 4.9 |
| 64 | MP1C | Y | -.288 | .25 |
| 65 | MP1C | My | .000127 | .25 |
| 66 | MP1C | Mz | .00035 | .25 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 67 | MP1C | Y | -.288 | 5.08 |
| 68 | MP1C | My | .000127 | 5.08 |
| 69 | MP1C | Mz | .00035 | 5.08 |
| 70 | MP4C | Y | -.288 | .25 |
| 71 | MP4C | My | .000127 | .25 |
| 72 | MP4C | Mz | .00035 | .25 |
| 73 | MP4C | Y | -.288 | 5.08 |
| 74 | MP4C | My | .000127 | 5.08 |
| 75 | MP4C | Mz | .00035 | 5.08 |
| 76 | MP1A | Y | -.224 | .25 |
| 77 | MP1A | My | -.00029 | .25 |
| 78 | MP1A | Mz | 0 | .25 |
| 79 | MP1A | Y | -.224 | 5.08 |
| 80 | MP1A | My | -.00029 | 5.08 |
| 81 | MP1A | Mz | 0 | 5.08 |
| 82 | MP1B | Y | -.224 | .25 |
| 83 | MP1B | My | .000222 | .25 |
| 84 | MP1B | Mz | -.000186 | .25 |
| 85 | MP1B | Y | -.224 | 5.08 |
| 86 | MP1B | My | .000222 | 5.08 |
| 87 | MP1B | Mz | -.000186 | 5.08 |
| 88 | MP4A | Y | -.224 | .25 |
| 89 | MP4A | My | -.00029 | .25 |
| 90 | MP4A | Mz | 0 | .25 |
| 91 | MP4A | Y | -.224 | 5.08 |
| 92 | MP4A | My | -.00029 | 5.08 |
| 93 | MP4A | Mz | 0 | 5.08 |
| 94 | MP4B | Y | -.224 | .25 |
| 95 | MP4B | My | .000222 | .25 |
| 96 | MP4B | Mz | -.000186 | .25 |
| 97 | MP4B | Y | -.224 | 5.08 |
| 98 | MP4B | My | .000222 | 5.08 |
| 99 | MP4B | Mz | -.000186 | 5.08 |
| 100 | M103 | Y | -.684 | 1 |
| 101 | M103 | My | 0 | 1 |
| 102 | M103 | Mz | 0 | 1 |
| 103 | MP3A | Y | -.612 | 2.15 |
| 104 | MP3A | My | -2.5e-5 | 2.15 |
| 105 | MP3A | Mz | 0 | 2.15 |
| 106 | MP3A | Y | -.612 | 4.15 |
| 107 | MP3A | My | -2.5e-5 | 4.15 |
| 108 | MP3A | Mz | 0 | 4.15 |
| 109 | MP3B | Y | -.612 | 2.15 |
| 110 | MP3B | My | 2e-5 | 2.15 |
| 111 | MP3B | Mz | -1.6e-5 | 2.15 |
| 112 | MP3B | Y | -.612 | 4.15 |
| 113 | MP3B | My | 2e-5 | 4.15 |
| 114 | MP3B | Mz | -1.6e-5 | 4.15 |
| 115 | MP3C | Y | -.612 | 2.15 |
| 116 | MP3C | My | 9e-6 | 2.15 |
| 117 | MP3C | Mz | 2.4e-5 | 2.15 |
| 118 | MP3C | Y | -.612 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|-----|--------------|-----------|--------------------|----------------|
| 119 | MP3C | My | 9e-6 | 4.15 |
| 120 | MP3C | Mz | 2.4e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | Z | -.555 | 1 |
| 2 | MP2A | Mx | 0 | 1 |
| 3 | MP2B | Z | -.555 | 1 |
| 4 | MP2B | Mx | -.000178 | 1 |
| 5 | MP2C | Z | -.555 | 1 |
| 6 | MP2C | Mx | .000261 | 1 |
| 7 | MP2A | Z | -4.507 | 2.5 |
| 8 | MP2A | Mx | 0 | 2.5 |
| 9 | MP2B | Z | -4.507 | 2.5 |
| 10 | MP2B | Mx | -.001 | 2.5 |
| 11 | MP2C | Z | -4.507 | 2.5 |
| 12 | MP2C | Mx | .002 | 2.5 |
| 13 | MP3A | Z | -3.754 | 2.5 |
| 14 | MP3A | Mx | 0 | 2.5 |
| 15 | MP3B | Z | -3.754 | 2.5 |
| 16 | MP3B | Mx | -.001 | 2.5 |
| 17 | MP3C | Z | -3.754 | 2.5 |
| 18 | MP3C | Mx | .002 | 2.5 |
| 19 | MP2A | Z | -1.69 | 1.4 |
| 20 | MP2A | Mx | -.001 | 1.4 |
| 21 | MP2A | Z | -1.69 | 4.9 |
| 22 | MP2A | Mx | -.001 | 4.9 |
| 23 | MP2B | Z | -1.69 | 1.4 |
| 24 | MP2B | Mx | .002 | 1.4 |
| 25 | MP2B | Z | -1.69 | 4.9 |
| 26 | MP2B | Mx | .002 | 4.9 |
| 27 | MP2C | Z | -1.69 | 1.4 |
| 28 | MP2C | Mx | -.001 | 1.4 |
| 29 | MP2C | Z | -1.69 | 4.9 |
| 30 | MP2C | Mx | -.001 | 4.9 |
| 31 | MP2A | Z | -1.69 | 1.4 |
| 32 | MP2A | Mx | .001 | 1.4 |
| 33 | MP2A | Z | -1.69 | 4.9 |
| 34 | MP2A | Mx | .001 | 4.9 |
| 35 | MP2B | Z | -1.69 | 1.4 |
| 36 | MP2B | Mx | .000251 | 1.4 |
| 37 | MP2B | Z | -1.69 | 4.9 |
| 38 | MP2B | Mx | .000251 | 4.9 |
| 39 | MP2C | Z | -1.69 | 1.4 |
| 40 | MP2C | Mx | -.002 | 1.4 |
| 41 | MP2C | Z | -1.69 | 4.9 |
| 42 | MP2C | Mx | -.002 | 4.9 |
| 43 | MP1C | Z | -.721 | .25 |
| 44 | MP1C | Mx | -.000875 | .25 |
| 45 | MP1C | Z | -.721 | 5.08 |
| 46 | MP1C | Mx | -.000875 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 47 | MP4C | Z | -.721 | .25 |
| 48 | MP4C | Mx | -.000875 | .25 |
| 49 | MP4C | Z | -.721 | 5.08 |
| 50 | MP4C | Mx | -.000875 | 5.08 |
| 51 | MP1A | Z | -.561 | .25 |
| 52 | MP1A | Mx | 0 | .25 |
| 53 | MP1A | Z | -.561 | 5.08 |
| 54 | MP1A | Mx | 0 | 5.08 |
| 55 | MP1B | Z | -.561 | .25 |
| 56 | MP1B | Mx | .000466 | .25 |
| 57 | MP1B | Z | -.561 | 5.08 |
| 58 | MP1B | Mx | .000466 | 5.08 |
| 59 | MP4A | Z | -.561 | .25 |
| 60 | MP4A | Mx | 0 | .25 |
| 61 | MP4A | Z | -.561 | 5.08 |
| 62 | MP4A | Mx | 0 | 5.08 |
| 63 | MP4B | Z | -.561 | .25 |
| 64 | MP4B | Mx | .000466 | .25 |
| 65 | MP4B | Z | -.561 | 5.08 |
| 66 | MP4B | Mx | .000466 | 5.08 |
| 67 | M103 | Z | -1.709 | 1 |
| 68 | M103 | Mx | 0 | 1 |
| 69 | MP3A | Z | -1.53 | 2.15 |
| 70 | MP3A | Mx | 0 | 2.15 |
| 71 | MP3A | Z | -1.53 | 4.15 |
| 72 | MP3A | Mx | 0 | 4.15 |
| 73 | MP3B | Z | -1.53 | 2.15 |
| 74 | MP3B | Mx | 4.1e-5 | 2.15 |
| 75 | MP3B | Z | -1.53 | 4.15 |
| 76 | MP3B | Mx | 4.1e-5 | 4.15 |
| 77 | MP3C | Z | -1.53 | 2.15 |
| 78 | MP3C | Mx | -6e-5 | 2.15 |
| 79 | MP3C | Z | -1.53 | 4.15 |
| 80 | MP3C | Mx | -6e-5 | 4.15 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 1 | MP2A | X | .555 | 1 |
| 2 | MP2A | Mx | .000278 | 1 |
| 3 | MP2B | X | .555 | 1 |
| 4 | MP2B | Mx | -.000213 | 1 |
| 5 | MP2C | X | .555 | 1 |
| 6 | MP2C | Mx | -9.5e-5 | 1 |
| 7 | MP2A | X | 4.507 | 2.5 |
| 8 | MP2A | Mx | .002 | 2.5 |
| 9 | MP2B | X | 4.507 | 2.5 |
| 10 | MP2B | Mx | -.002 | 2.5 |
| 11 | MP2C | X | 4.507 | 2.5 |
| 12 | MP2C | Mx | -.000771 | 2.5 |
| 13 | MP3A | X | 3.754 | 2.5 |
| 14 | MP3A | Mx | .002 | 2.5 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 15 | MP3B | X | 3.754 | 2.5 |
| 16 | MP3B | Mx | -.001 | 2.5 |
| 17 | MP3C | X | 3.754 | 2.5 |
| 18 | MP3C | Mx | -.000642 | 2.5 |
| 19 | MP2A | X | 1.69 | 1.4 |
| 20 | MP2A | Mx | -.002 | 1.4 |
| 21 | MP2A | X | 1.69 | 4.9 |
| 22 | MP2A | Mx | -.002 | 4.9 |
| 23 | MP2B | X | 1.69 | 1.4 |
| 24 | MP2B | Mx | .000642 | 1.4 |
| 25 | MP2B | X | 1.69 | 4.9 |
| 26 | MP2B | Mx | .000642 | 4.9 |
| 27 | MP2C | X | 1.69 | 1.4 |
| 28 | MP2C | Mx | .002 | 1.4 |
| 29 | MP2C | X | 1.69 | 4.9 |
| 30 | MP2C | Mx | .002 | 4.9 |
| 31 | MP2A | X | 1.69 | 1.4 |
| 32 | MP2A | Mx | -.002 | 1.4 |
| 33 | MP2A | X | 1.69 | 4.9 |
| 34 | MP2A | Mx | -.002 | 4.9 |
| 35 | MP2B | X | 1.69 | 1.4 |
| 36 | MP2B | Mx | .002 | 1.4 |
| 37 | MP2B | X | 1.69 | 4.9 |
| 38 | MP2B | Mx | .002 | 4.9 |
| 39 | MP2C | X | 1.69 | 1.4 |
| 40 | MP2C | Mx | -.000541 | 1.4 |
| 41 | MP2C | X | 1.69 | 4.9 |
| 42 | MP2C | Mx | -.000541 | 4.9 |
| 43 | MP1C | X | .721 | .25 |
| 44 | MP1C | Mx | .000318 | .25 |
| 45 | MP1C | X | .721 | 5.08 |
| 46 | MP1C | Mx | .000318 | 5.08 |
| 47 | MP4C | X | .721 | .25 |
| 48 | MP4C | Mx | .000318 | .25 |
| 49 | MP4C | X | .721 | 5.08 |
| 50 | MP4C | Mx | .000318 | 5.08 |
| 51 | MP1A | X | .561 | .25 |
| 52 | MP1A | Mx | -.000724 | .25 |
| 53 | MP1A | X | .561 | 5.08 |
| 54 | MP1A | Mx | -.000724 | 5.08 |
| 55 | MP1B | X | .561 | .25 |
| 56 | MP1B | Mx | .000555 | .25 |
| 57 | MP1B | X | .561 | 5.08 |
| 58 | MP1B | Mx | .000555 | 5.08 |
| 59 | MP4A | X | .561 | .25 |
| 60 | MP4A | Mx | -.000724 | .25 |
| 61 | MP4A | X | .561 | 5.08 |
| 62 | MP4A | Mx | -.000724 | 5.08 |
| 63 | MP4B | X | .561 | .25 |
| 64 | MP4B | Mx | .000555 | .25 |
| 65 | MP4B | X | .561 | 5.08 |
| 66 | MP4B | Mx | .000555 | 5.08 |

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

| | Member Label | Direction | Magnitude[lb,k-ft] | Location[ft,%] |
|----|--------------|-----------|--------------------|----------------|
| 67 | M103 | X | 1.709 | 1 |
| 68 | M103 | Mx | 0 | 1 |
| 69 | MP3A | X | 1.53 | 2.15 |
| 70 | MP3A | Mx | -6.4e-5 | 2.15 |
| 71 | MP3A | X | 1.53 | 4.15 |
| 72 | MP3A | Mx | -6.4e-5 | 4.15 |
| 73 | MP3B | X | 1.53 | 2.15 |
| 74 | MP3B | Mx | 4.9e-5 | 2.15 |
| 75 | MP3B | X | 1.53 | 4.15 |
| 76 | MP3B | Mx | 4.9e-5 | 4.15 |
| 77 | MP3C | X | 1.53 | 2.15 |
| 78 | MP3C | Mx | 2.2e-5 | 2.15 |
| 79 | MP3C | X | 1.53 | 4.15 |
| 80 | MP3C | Mx | 2.2e-5 | 4.15 |

Member Area Loads (BLC 39 : Structure D)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N111 | N107 | N105A | N112 | Y | Two Way | -.005 |
| 2 | N92 | N87B | N87C | N93 | Y | Two Way | -.005 |
| 3 | N139 | N135A | N133 | N140 | Y | Two Way | -.005 |

Member Area Loads (BLC 40 : Structure Di)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N111 | N107 | N105A | N112 | Y | Two Way | -.011 |
| 2 | N92 | N87B | N87C | N93 | Y | Two Way | -.011 |
| 3 | N139 | N135A | N133 | N140 | Y | Two Way | -.011 |

Member Area Loads (BLC 84 : Structure Ev)

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N111 | N107 | N105A | N112 | Y | Two Way | -.000111 |
| 2 | N92 | N87B | N87C | N93 | Y | Two Way | -.000111 |
| 3 | N139 | N135A | N133 | N140 | Y | Two Way | -.000111 |

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

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N111 | N107 | N105A | N112 | Z | Two Way | -.000278 |
| 2 | N92 | N87B | N87C | N93 | Z | Two Way | -.000278 |
| 3 | N139 | N135A | N133 | N140 | Z | Two Way | -.000278 |

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

| | Joint A | Joint B | Joint C | Joint D | Direction | Distribution | Magnitude[ksf] |
|---|---------|---------|---------|---------|-----------|--------------|----------------|
| 1 | N111 | N107 | N105A | N112 | X | Two Way | .000278 |
| 2 | N92 | N87B | N87C | N93 | X | Two Way | .000278 |
| 3 | N139 | N135A | N133 | N140 | X | Two Way | .000278 |

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 | N140B | max | 1028.131 | 10 | 2600.132 | 13 | 1957.513 | 1 | 5.243 | 13 | 1.501 | 4 | .07 | 2 |
| 2 | | min | -1032.208 | 4 | 791.543 | 7 | -2099.136 | 7 | .912 | 7 | -1.546 | 10 | -.245 | 8 |
| 3 | N141 | max | 1702.934 | 9 | 2361.917 | 21 | 1313.155 | 1 | -.681 | 3 | 1.168 | 12 | -.58 | 3 |
| 4 | | min | -1821.517 | 3 | 706.602 | 3 | -1221.302 | 7 | -2.788 | 45 | -1.188 | 6 | -4.017 | 21 |
| 5 | N142 | max | 1927.292 | 10 | 2427.395 | 17 | 1074.082 | 1 | -.275 | 11 | 1.431 | 8 | 4.508 | 17 |
| 6 | | min | -1803.323 | 4 | 707.428 | 11 | -1024.309 | 7 | -2.344 | 17 | -1.451 | 2 | .943 | 11 |
| 7 | Totals: | max | 4557.468 | 10 | 7129.162 | 20 | 4344.75 | 1 | | | | | | |
| 8 | | min | -4557.466 | 4 | 2340.848 | 64 | -4344.747 | 7 | | | | | | |

Joint Reactions

| | LC | Joint Label | X [lb] | Y [lb] | Z [lb] | MX [k-ft] | MY [k-ft] | MZ [k-ft] |
|----|----|-------------|-----------|----------|-----------|-----------|-----------|-----------|
| 1 | 1 | N140B | 67.9 | 1412.324 | 1957.513 | 3.252 | -.142 | .026 |
| 2 | 1 | N141 | -711.26 | 900.039 | 1313.155 | -.974 | .871 | -1.348 |
| 3 | 1 | N142 | 643.375 | 884.635 | 1074.082 | -.541 | -.92 | 1.301 |
| 4 | 1 | Totals: | .015 | 3196.998 | 4344.75 | | | |
| 5 | 1 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 6 | 2 | N140B | -315.898 | 1387.528 | 1794.561 | 3.234 | .199 | .07 |
| 7 | 2 | N141 | -1511.398 | 767.324 | 1312.324 | -.791 | .265 | -.861 |
| 8 | 2 | N142 | -416.516 | 1042.147 | 779.47 | -.823 | -1.451 | 1.698 |
| 9 | 2 | Totals: | -2243.812 | 3196.998 | 3886.354 | | | |
| 10 | 2 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 11 | 3 | N140B | -760.234 | 1269.842 | 1091.288 | 2.856 | .962 | .07 |
| 12 | 3 | N141 | -1821.517 | 706.602 | 1124.379 | -.681 | -.026 | -.58 |
| 13 | 3 | N142 | -1396.738 | 1220.556 | 81.276 | -1.184 | -1.147 | 2.17 |
| 14 | 3 | Totals: | -3978.489 | 3197 | 2296.942 | | | |
| 15 | 3 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 16 | 4 | N140B | -1032.208 | 1089.206 | -151.346 | 2.225 | 1.501 | .026 |
| 17 | 4 | N141 | -1721.935 | 764.339 | 762.648 | -.726 | -.239 | -.673 |
| 18 | 4 | N142 | -1803.323 | 1343.458 | -611.304 | -1.467 | -.374 | 2.542 |
| 19 | 4 | Totals: | -4557.466 | 3197.003 | -.003 | | | |
| 20 | 4 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 21 | 5 | N140B | -884.683 | 928.297 | -1332.067 | 1.608 | 1.151 | -.046 |
| 22 | 5 | N141 | -1276.681 | 908.681 | 55.731 | -.923 | -.781 | -1.073 |
| 23 | 5 | N142 | -1661.828 | 1360.027 | -930.952 | -1.547 | .049 | 2.672 |
| 24 | 5 | Totals: | -3823.192 | 3197.006 | -2207.288 | | | |
| 25 | 5 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 26 | 6 | N140B | -470.1 | 831.9 | -1946.677 | 1.163 | .447 | -.126 |
| 27 | 6 | N141 | -442.512 | 1070.867 | -769.197 | -1.161 | -1.188 | -1.577 |
| 28 | 6 | N142 | -1241.552 | 1294.242 | -1015.18 | -1.461 | .29 | 2.573 |
| 29 | 6 | Totals: | -2154.165 | 3197.008 | -3731.053 | | | |
| 30 | 6 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 31 | 7 | N140B | -72.222 | 791.543 | -2099.136 | .912 | .099 | -.2 |
| 32 | 7 | N141 | 594.866 | 1224.326 | -1221.302 | -1.371 | -.888 | -2.094 |
| 33 | 7 | N142 | -522.657 | 1181.141 | -1024.309 | -1.282 | .899 | 2.317 |
| 34 | 7 | Totals: | -.013 | 3197.01 | -4344.747 | | | |
| 35 | 7 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 36 | 8 | N140B | 314.399 | 815.841 | -1935.112 | .929 | -.243 | -.245 |
| 37 | 8 | N141 | 1394.332 | 1358.4 | -1218.491 | -1.553 | -.281 | -2.579 |
| 38 | 8 | N142 | 535.082 | 1022.769 | -732.748 | -1 | 1.431 | 1.921 |

Joint Reactions (Continued)

| LC | Joint Label | X [lb] | Y [lb] | Z [lb] | MX [k-ft] | MY [k-ft] | MZ [k-ft] |
|----|-------------|-----------|-----------|----------|-----------|-----------|-----------|
| 39 | 8 | Totals: | 2243.814 | 3197.01 | -3886.351 | | |
| 40 | 8 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | |
| 41 | 9 | N140B | 758.256 | 932.204 | -1228.237 | 1.309 | -1.009 |
| 42 | 9 | N141 | 1702.934 | 1419.931 | -1032.667 | -1.663 | .007 |
| 43 | 9 | N142 | 1517.301 | 844.873 | -36.036 | -.64 | 1.131 |
| 44 | 9 | Totals: | 3978.491 | 3197.008 | -2296.94 | | |
| 45 | 9 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | |
| 46 | 10 | N140B | 1028.131 | 1112.068 | 16.387 | 1.942 | -1.546 |
| 47 | 10 | N141 | 1602.045 | 1361.493 | -673.715 | -1.618 | .218 |
| 48 | 10 | N142 | 1927.292 | 723.445 | 657.333 | -.356 | .357 |
| 49 | 10 | Totals: | 4557.468 | 3197.005 | .005 | | |
| 50 | 10 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | |
| 51 | 11 | N140B | 878.782 | 1273.763 | 1194.179 | 2.559 | -1.192 |
| 52 | 11 | N141 | 1158.451 | 1215.812 | 32.94 | -1.424 | .76 |
| 53 | 11 | N142 | 1785.961 | 707.428 | 980.171 | -.275 | -.067 |
| 54 | 11 | Totals: | 3823.194 | 3197.003 | 2207.291 | | |
| 55 | 11 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | |
| 56 | 12 | N140B | 463.432 | 1371.418 | 1805.579 | 3.002 | -.488 |
| 57 | 12 | N141 | 326.1 | 1052.971 | 858.738 | -1.186 | 1.168 |
| 58 | 12 | N142 | 1364.634 | 772.611 | 1066.739 | -.361 | -.31 |
| 59 | 12 | Totals: | 2154.167 | 3197 | 3731.056 | | |
| 60 | 12 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | |
| 61 | 13 | N140B | 22.15 | 2600.132 | 295.17 | 5.243 | -.118 |
| 62 | 13 | N141 | -375.657 | 2226.817 | 485.67 | -2.475 | .203 |
| 63 | 13 | N142 | 353.512 | 2302.21 | 330.508 | -2.086 | -.237 |
| 64 | 13 | Totals: | .005 | 7129.159 | 1111.349 | | |
| 65 | 13 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | |
| 66 | 14 | N140B | -71.63 | 2591.847 | 246.926 | 5.232 | -.05 |
| 67 | 14 | N141 | -576.707 | 2193.083 | 480.963 | -2.427 | .029 |
| 68 | 14 | N142 | 79.32 | 2344.23 | 257.667 | -2.161 | -.386 |
| 69 | 14 | Totals: | -569.017 | 7129.159 | 985.556 | | |
| 70 | 14 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | |
| 71 | 15 | N140B | -188.145 | 2560.545 | 63.83 | 5.131 | .149 |
| 72 | 15 | N141 | -651.203 | 2178.704 | 433.409 | -2.4 | -.037 |
| 73 | 15 | N142 | -162.874 | 2389.911 | 81.389 | -2.251 | -.299 |
| 74 | 15 | Totals: | -1002.222 | 7129.16 | 578.628 | | |
| 75 | 15 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | |
| 76 | 16 | N140B | -260.474 | 2514.254 | -249.543 | 4.97 | .295 |
| 77 | 16 | N141 | -626.89 | 2193.344 | 341.223 | -2.412 | -.085 |
| 78 | 16 | N142 | -262.456 | 2421.562 | -91.68 | -2.321 | -.1 |
| 79 | 16 | Totals: | -1149.82 | 7129.161 | 0 | | |
| 80 | 16 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | |
| 81 | 17 | N140B | -219.064 | 2471.874 | -549.064 | 4.809 | .195 |
| 82 | 17 | N141 | -518.619 | 2229.892 | 156.384 | -2.459 | -.243 |
| 83 | 17 | N142 | -234.993 | 2427.395 | -168.881 | -2.344 | -.014 |
| 84 | 17 | Totals: | -972.676 | 7129.161 | -561.561 | | |
| 85 | 17 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | |
| 86 | 18 | N140B | -110.642 | 2445.128 | -709.977 | 4.69 | .007 |
| 87 | 18 | N141 | -307.75 | 2272.756 | -56.997 | -2.52 | -.364 |
| 88 | 18 | N142 | -133.562 | 2411.278 | -189.018 | -2.324 | .036 |
| 89 | 18 | Totals: | -551.954 | 7129.162 | -955.992 | | |
| 90 | 18 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | |

Joint Reactions (Continued)

| | LC | Joint Label | X [lb] | Y [lb] | Z [lb] | MX [k-ft] | MY [k-ft] | MZ [k-ft] |
|-----|----|-------------|----------|----------|-----------|-----------|-----------|-----------|
| 91 | 19 | N140B | -14.337 | 2434.68 | -749.358 | 4.626 | -.065 | -.145 |
| 92 | 19 | N141 | -42.424 | 2313.668 | -168.926 | -2.577 | -.271 | -3.828 |
| 93 | 19 | N142 | 56.76 | 2380.815 | -193.062 | -2.275 | .208 | 4.417 |
| 94 | 19 | Totals: | -.002 | 7129.162 | -1111.346 | | | |
| 95 | 19 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | | |
| 96 | 20 | N140B | 79.628 | 2442.93 | -701.065 | 4.637 | -.133 | -.158 |
| 97 | 20 | N141 | 158.575 | 2347.488 | -164.077 | -2.625 | -.096 | -3.95 |
| 98 | 20 | N142 | 330.817 | 2338.744 | -120.412 | -2.201 | .357 | 4.313 |
| 99 | 20 | Totals: | 569.021 | 7129.162 | -985.553 | | | |
| 100 | 20 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | | |
| 101 | 21 | N140B | 196.11 | 2474.145 | -517.751 | 4.738 | -.333 | -.159 |
| 102 | 21 | N141 | 232.969 | 2361.917 | -116.656 | -2.652 | -.03 | -4.017 |
| 103 | 21 | N142 | 573.147 | 2293.099 | 55.782 | -2.111 | .27 | 4.191 |
| 104 | 21 | Totals: | 1002.225 | 7129.162 | -578.625 | | | |
| 105 | 21 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | | |
| 106 | 22 | N140B | 268.313 | 2520.389 | -204.246 | 4.9 | -.478 | -.148 |
| 107 | 22 | N141 | 208.566 | 2347.232 | -24.645 | -2.64 | .017 | -3.993 |
| 108 | 22 | N142 | 672.944 | 2261.541 | 228.894 | -2.04 | .071 | 4.095 |
| 109 | 22 | Totals: | 1149.823 | 7129.161 | .003 | | | |
| 110 | 22 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | | |
| 111 | 23 | N140B | 226.779 | 2562.816 | 95.104 | 5.061 | -.378 | -.13 |
| 112 | 23 | N141 | 100.415 | 2310.598 | 160.164 | -2.592 | .176 | -3.894 |
| 113 | 23 | N142 | 645.485 | 2255.746 | 306.296 | -2.018 | -.015 | 4.059 |
| 114 | 23 | Totals: | 972.679 | 7129.161 | 561.564 | | | |
| 115 | 23 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | | |
| 116 | 24 | N140B | 118.295 | 2589.645 | 255.821 | 5.18 | -.19 | -.11 |
| 117 | 24 | N141 | -110.329 | 2267.694 | 373.586 | -2.532 | .296 | -3.765 |
| 118 | 24 | N142 | 543.992 | 2271.822 | 326.589 | -2.038 | -.065 | 4.082 |
| 119 | 24 | Totals: | 551.958 | 7129.16 | 955.995 | | | |
| 120 | 24 | COG (ft): | X: .025 | Y: .6 | Z: -.069 | | | |
| 121 | 25 | N140B | 3.523 | 988.599 | 67.379 | 1.909 | -.028 | -.076 |
| 122 | 25 | N141 | -107.688 | 1509.637 | 131.257 | -2.094 | .051 | -2.04 |
| 123 | 25 | N142 | 104.166 | 1448.778 | 97.037 | -1.732 | -.069 | 2.069 |
| 124 | 25 | Totals: | 0 | 3947.014 | 295.672 | | | |
| 125 | 25 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 126 | 26 | N140B | -22.681 | 986.931 | 56.26 | 1.908 | -.005 | -.073 |
| 127 | 26 | N141 | -162.122 | 1500.562 | 131.137 | -2.082 | .01 | -2.007 |
| 128 | 26 | N142 | 32.105 | 1459.52 | 77.085 | -1.751 | -.105 | 2.096 |
| 129 | 26 | Totals: | -152.698 | 3947.014 | 264.482 | | | |
| 130 | 26 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 131 | 27 | N140B | -52.904 | 978.976 | 8.291 | 1.882 | .047 | -.073 |
| 132 | 27 | N141 | -183.176 | 1496.394 | 118.413 | -2.074 | -.01 | -1.988 |
| 133 | 27 | N142 | -34.67 | 1471.644 | 29.608 | -1.775 | -.085 | 2.128 |
| 134 | 27 | Totals: | -270.75 | 3947.014 | 156.312 | | | |
| 135 | 27 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 136 | 28 | N140B | -71.342 | 966.721 | -76.326 | 1.839 | .084 | -.076 |
| 137 | 28 | N141 | -176.352 | 1500.335 | 93.879 | -2.077 | -.024 | -1.994 |
| 138 | 28 | N142 | -62.451 | 1479.958 | -17.551 | -1.795 | -.032 | 2.153 |
| 139 | 28 | Totals: | -310.146 | 3947.014 | .003 | | | |
| 140 | 28 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 141 | 29 | N140B | -61.242 | 955.759 | -156.575 | 1.797 | .06 | -.081 |
| 142 | 29 | N141 | -146.101 | 1510.203 | 45.778 | -2.091 | -.061 | -2.021 |

Joint Reactions (Continued)

| | LC | Joint Label | X [lb] | Y [lb] | Z [lb] | MX [k-ft] | MY [k-ft] | MZ [k-ft] |
|-----|----|-------------|----------|----------|----------|-----------|-----------|-----------|
| 143 | 29 | N142 | -52.834 | 1481.052 | -39.409 | -1.8 | -.003 | 2.162 |
| 144 | 29 | Totals: | -260.177 | 3947.014 | -150.205 | | | |
| 145 | 29 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 146 | 30 | N140B | -33.007 | 949.169 | -198.296 | 1.767 | .012 | -.086 |
| 147 | 30 | N141 | -89.386 | 1521.269 | -10.389 | -2.107 | -.089 | -2.055 |
| 148 | 30 | N142 | -24.204 | 1476.576 | -45.223 | -1.794 | .013 | 2.155 |
| 149 | 30 | Totals: | -146.597 | 3947.014 | -253.908 | | | |
| 150 | 30 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 151 | 31 | N140B | -6.005 | 946.41 | -208.652 | 1.75 | -.012 | -.091 |
| 152 | 31 | N141 | -18.791 | 1531.695 | -41.23 | -2.121 | -.068 | -2.09 |
| 153 | 31 | N142 | 24.794 | 1468.909 | -45.785 | -1.782 | .055 | 2.138 |
| 154 | 31 | Totals: | -.001 | 3947.015 | -295.667 | | | |
| 155 | 31 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 156 | 32 | N140B | 20.213 | 948.075 | -197.527 | 1.751 | -.035 | -.094 |
| 157 | 32 | N141 | 35.64 | 1540.777 | -41.101 | -2.133 | -.027 | -2.124 |
| 158 | 32 | N142 | 96.845 | 1458.163 | -25.848 | -1.763 | .091 | 2.111 |
| 159 | 32 | Totals: | 152.698 | 3947.015 | -264.476 | | | |
| 160 | 32 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 161 | 33 | N140B | 50.433 | 956.024 | -149.542 | 1.777 | -.087 | -.094 |
| 162 | 33 | N141 | 56.687 | 1544.949 | -28.387 | -2.141 | -.007 | -2.143 |
| 163 | 33 | N142 | 163.63 | 1446.041 | 21.623 | -1.738 | .07 | 2.079 |
| 164 | 33 | Totals: | 270.75 | 3947.014 | -156.307 | | | |
| 165 | 33 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 166 | 34 | N140B | 68.862 | 968.275 | -64.916 | 1.82 | -.124 | -.091 |
| 167 | 34 | N141 | 49.858 | 1541.005 | -3.866 | -2.138 | .007 | -2.136 |
| 168 | 34 | N142 | 191.427 | 1437.734 | 68.786 | -1.719 | .018 | 2.054 |
| 169 | 34 | Totals: | 310.146 | 3947.014 | .003 | | | |
| 170 | 34 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 171 | 35 | N140B | 58.753 | 979.241 | 15.319 | 1.862 | -.1 | -.086 |
| 172 | 35 | N141 | 19.614 | 1531.131 | 44.233 | -2.125 | .044 | -2.109 |
| 173 | 35 | N142 | 181.81 | 1436.642 | 90.658 | -1.714 | -.011 | 2.045 |
| 174 | 35 | Totals: | 260.177 | 3947.014 | 150.211 | | | |
| 175 | 35 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 176 | 36 | N140B | 30.514 | 985.837 | 57.026 | 1.892 | -.052 | -.081 |
| 177 | 36 | N141 | -37.093 | 1520.062 | 100.405 | -2.109 | .072 | -2.075 |
| 178 | 36 | N142 | 153.175 | 1441.116 | 96.484 | -1.72 | -.028 | 2.052 |
| 179 | 36 | Totals: | 146.597 | 3947.014 | 253.914 | | | |
| 180 | 36 | COG (ft): | X: -.052 | Y: .478 | Z: .772 | | | |
| 181 | 37 | N140B | 4.71 | 1005.218 | 61.549 | 1.837 | -.038 | -.085 |
| 182 | 37 | N141 | -116.989 | 1848.503 | 138.473 | -2.741 | .042 | -3.21 |
| 183 | 37 | N142 | 112.284 | 1093.302 | 95.654 | -1.06 | -.061 | 1.586 |
| 184 | 37 | Totals: | .005 | 3947.023 | 295.676 | | | |
| 185 | 37 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 186 | 38 | N140B | -21.496 | 1003.567 | 50.434 | 1.835 | -.015 | -.082 |
| 187 | 38 | N141 | -171.413 | 1839.423 | 138.35 | -2.729 | 0 | -3.177 |
| 188 | 38 | N142 | 40.215 | 1104.033 | 75.702 | -1.079 | -.098 | 1.613 |
| 189 | 38 | Totals: | -152.694 | 3947.023 | 264.486 | | | |
| 190 | 38 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 191 | 39 | N140B | -51.722 | 995.624 | 2.461 | 1.81 | .038 | -.082 |
| 192 | 39 | N141 | -192.462 | 1835.27 | 125.624 | -2.721 | -.019 | -3.158 |
| 193 | 39 | N142 | -26.562 | 1116.13 | 28.231 | -1.103 | -.077 | 1.645 |
| 194 | 39 | Totals: | -270.746 | 3947.024 | 156.316 | | | |

Joint Reactions (Continued)

| | LC | Joint Label | X [lb] | Y [lb] | Z [lb] | MX [k-ft] | MY [k-ft] | MZ [k-ft] |
|-----|----|-------------|----------|----------|----------|-----------|-----------|-----------|
| 195 | 39 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 196 | 40 | N140B | -70.163 | 983.379 | -82.166 | 1.767 | .074 | -.085 |
| 197 | 40 | N141 | -185.637 | 1839.231 | 101.091 | -2.724 | -.033 | -3.165 |
| 198 | 40 | N142 | -54.341 | 1124.415 | -18.918 | -1.123 | -.024 | 1.671 |
| 199 | 40 | Totals: | -310.142 | 3947.024 | .006 | | | |
| 200 | 40 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 201 | 41 | N140B | -60.067 | 972.415 | -162.428 | 1.725 | .05 | -.09 |
| 202 | 41 | N141 | -155.389 | 1849.116 | 52.992 | -2.738 | -.07 | -3.192 |
| 203 | 41 | N142 | -44.717 | 1125.493 | -40.765 | -1.128 | .004 | 1.679 |
| 204 | 41 | Totals: | -260.173 | 3947.024 | -150.201 | | | |
| 205 | 41 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 206 | 42 | N140B | -31.835 | 965.813 | -204.165 | 1.694 | .002 | -.096 |
| 207 | 42 | N141 | -98.68 | 1860.202 | -3.17 | -2.754 | -.098 | -3.226 |
| 208 | 42 | N142 | -16.078 | 1121.009 | -46.57 | -1.122 | .021 | 1.673 |
| 209 | 42 | Totals: | -146.592 | 3947.024 | -253.904 | | | |
| 210 | 42 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 211 | 43 | N140B | -4.833 | 963.036 | -214.533 | 1.677 | -.021 | -.101 |
| 212 | 43 | N141 | -28.094 | 1870.65 | -34.006 | -2.768 | -.077 | -3.261 |
| 213 | 43 | N142 | 32.931 | 1113.338 | -47.124 | -1.11 | .062 | 1.655 |
| 214 | 43 | Totals: | .003 | 3947.024 | -295.663 | | | |
| 215 | 43 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 216 | 44 | N140B | 21.387 | 964.685 | -203.414 | 1.678 | -.045 | -.104 |
| 217 | 44 | N141 | 26.326 | 1879.736 | -33.873 | -2.78 | -.036 | -3.294 |
| 218 | 44 | N142 | 104.989 | 1102.603 | -27.185 | -1.091 | .099 | 1.628 |
| 219 | 44 | Totals: | 152.702 | 3947.024 | -264.472 | | | |
| 220 | 44 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 221 | 45 | N140B | 51.61 | 972.622 | -155.424 | 1.704 | -.097 | -.104 |
| 222 | 45 | N141 | 47.368 | 1883.894 | -21.157 | -2.788 | -.017 | -3.313 |
| 223 | 45 | N142 | 171.776 | 1090.509 | 20.279 | -1.066 | .078 | 1.596 |
| 224 | 45 | Totals: | 270.754 | 3947.024 | -156.303 | | | |
| 225 | 45 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 226 | 46 | N140B | 70.042 | 984.864 | -70.788 | 1.747 | -.133 | -.101 |
| 227 | 46 | N141 | 40.537 | 1879.929 | 3.363 | -2.785 | -.002 | -3.306 |
| 228 | 46 | N142 | 199.571 | 1082.231 | 67.431 | -1.047 | .025 | 1.571 |
| 229 | 46 | Totals: | 310.15 | 3947.024 | .007 | | | |
| 230 | 46 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 231 | 47 | N140B | 59.937 | 995.831 | 9.461 | 1.789 | -.109 | -.096 |
| 232 | 47 | N141 | 10.297 | 1870.038 | 51.461 | -2.772 | .035 | -3.279 |
| 233 | 47 | N142 | 189.947 | 1081.155 | 89.293 | -1.042 | -.003 | 1.562 |
| 234 | 47 | Totals: | 260.181 | 3947.024 | 150.215 | | | |
| 235 | 47 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 236 | 48 | N140B | 31.701 | 1002.439 | 51.182 | 1.819 | -.061 | -.09 |
| 237 | 48 | N141 | -46.404 | 1858.949 | 107.627 | -2.756 | .063 | -3.245 |
| 238 | 48 | N142 | 161.303 | 1085.636 | 95.108 | -1.048 | -.02 | 1.569 |
| 239 | 48 | Totals: | 146.601 | 3947.024 | 253.918 | | | |
| 240 | 48 | COG (ft): | X: -.762 | Y: .478 | Z: .772 | | | |
| 241 | 49 | N140B | -1.604 | 1034.312 | -71.322 | 1.957 | -.021 | -.087 |
| 242 | 49 | N141 | -62.102 | 1283.612 | 45.857 | -1.624 | -.009 | -1.88 |
| 243 | 49 | N142 | 63.706 | 1254.085 | 25.467 | -1.351 | -.008 | 1.968 |
| 244 | 49 | Totals: | 0 | 3572.009 | .002 | | | |
| 245 | 49 | COG (ft): | X: -.03 | Y: .528 | Z: .415 | | | |
| 246 | 50 | N140B | .136 | 1048.239 | -80.522 | 1.876 | -.04 | -.12 |

Joint Reactions (Continued)

| | LC | Joint Label | X [lb] | Y [lb] | Z [lb] | MX [k-ft] | MY [k-ft] | MZ [k-ft] |
|-----|----|-------------|----------|----------|----------|-----------|-----------|-----------|
| 247 | 50 | N141 | -75.491 | 1558.397 | 59.818 | -2.115 | -.022 | -2.988 |
| 248 | 50 | N142 | 75.36 | 965.384 | 20.711 | -.818 | -.002 | 1.531 |
| 249 | 50 | Totals: | .006 | 3572.019 | .007 | | | |
| 250 | 50 | COG (ft): | X: -.73 | Y: .528 | Z: .415 | | | |
| 251 | 51 | N140B | -2.392 | 1284.926 | -84.095 | 2.432 | -.025 | -.102 |
| 252 | 51 | N141 | -71.186 | 1239.569 | 54.385 | -1.369 | -.011 | -2.009 |
| 253 | 51 | N142 | 73.579 | 1205.343 | 29.712 | -1.065 | -.011 | 2.112 |
| 254 | 51 | Totals: | .001 | 3729.838 | .002 | | | |
| 255 | 51 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 256 | 52 | N140B | .897 | 1131.276 | -4.619 | 2.158 | -.026 | -.086 |
| 257 | 52 | N141 | -80.894 | 1075.953 | 87.657 | -1.188 | .019 | -1.74 |
| 258 | 52 | N142 | 79.998 | 1046.679 | 59.235 | -.917 | -.035 | 1.826 |
| 259 | 52 | Totals: | .001 | 3253.909 | 142.274 | | | |
| 260 | 52 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 261 | 53 | N140B | -14.092 | 1129.719 | -15.378 | 2.155 | -.009 | -.085 |
| 262 | 53 | N141 | -105.504 | 1072.318 | 91.69 | -1.182 | .008 | -1.727 |
| 263 | 53 | N142 | 48.461 | 1051.872 | 46.896 | -.927 | -.041 | 1.839 |
| 264 | 53 | Totals: | -71.136 | 3253.909 | 123.209 | | | |
| 265 | 53 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 266 | 54 | N140B | -25.866 | 1125.817 | -41.67 | 2.143 | .004 | -.085 |
| 267 | 54 | N141 | -118.483 | 1071.115 | 83.869 | -1.18 | -.008 | -1.72 |
| 268 | 54 | N142 | 21.141 | 1056.977 | 28.938 | -.936 | -.039 | 1.853 |
| 269 | 54 | Totals: | -123.208 | 3253.909 | 71.137 | | | |
| 270 | 54 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 271 | 55 | N140B | -31.272 | 1120.616 | -76.456 | 2.125 | .01 | -.086 |
| 272 | 55 | N141 | -116.355 | 1072.667 | 66.288 | -1.181 | -.024 | -1.723 |
| 273 | 55 | N142 | 5.353 | 1060.625 | 10.169 | -.944 | -.028 | 1.864 |
| 274 | 55 | Totals: | -142.273 | 3253.909 | .001 | | | |
| 275 | 55 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 276 | 56 | N140B | -28.857 | 1115.51 | -110.413 | 2.107 | .007 | -.088 |
| 277 | 56 | N141 | -99.685 | 1076.559 | 43.658 | -1.187 | -.036 | -1.733 |
| 278 | 56 | N142 | 5.333 | 1061.84 | -4.38 | -.948 | -.013 | 1.869 |
| 279 | 56 | Totals: | -123.209 | 3253.909 | -71.135 | | | |
| 280 | 56 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 281 | 57 | N140B | -19.271 | 1111.868 | -134.441 | 2.092 | -.003 | -.09 |
| 282 | 57 | N141 | -72.947 | 1081.747 | 22.045 | -1.194 | -.041 | -1.749 |
| 283 | 57 | N142 | 21.081 | 1060.294 | -10.81 | -.946 | .003 | 1.867 |
| 284 | 57 | Totals: | -71.136 | 3253.909 | -123.206 | | | |
| 285 | 57 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 286 | 58 | N140B | -5.081 | 1110.663 | -142.105 | 2.086 | -.019 | -.091 |
| 287 | 58 | N141 | -43.299 | 1086.843 | 7.237 | -1.201 | -.038 | -1.765 |
| 288 | 58 | N142 | 48.38 | 1056.403 | -7.402 | -.94 | .016 | 1.858 |
| 289 | 58 | Totals: | 0 | 3253.909 | -142.271 | | | |
| 290 | 58 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 291 | 59 | N140B | 9.911 | 1112.22 | -131.346 | 2.089 | -.035 | -.092 |
| 292 | 59 | N141 | -18.69 | 1090.479 | 3.205 | -1.207 | -.027 | -1.778 |
| 293 | 59 | N142 | 79.917 | 1051.21 | 4.935 | -.931 | .022 | 1.845 |
| 294 | 59 | Totals: | 71.138 | 3253.909 | -123.206 | | | |
| 295 | 59 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 296 | 60 | N140B | 21.685 | 1116.12 | -105.052 | 2.101 | -.048 | -.092 |
| 297 | 60 | N141 | -5.713 | 1091.683 | 11.026 | -1.209 | -.012 | -1.784 |
| 298 | 60 | N142 | 107.238 | 1046.106 | 22.892 | -.921 | .019 | 1.831 |

Joint Reactions (Continued)

| | LC | Joint Label | X [lb] | Y [lb] | Z [lb] | MX [k-ft] | MY [k-ft] | MZ [k-ft] |
|-----|----|-------------|----------|----------|----------|-----------|-----------|-----------|
| 299 | 60 | Totals: | 123.21 | 3253.909 | -71.134 | | | |
| 300 | 60 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 301 | 61 | N140B | 27.089 | 1121.321 | -70.265 | 2.118 | -.054 | -.092 |
| 302 | 61 | N141 | -7.841 | 1090.13 | 28.605 | -1.208 | .004 | -1.782 |
| 303 | 61 | N142 | 123.028 | 1042.458 | 41.662 | -.913 | .009 | 1.82 |
| 304 | 61 | Totals: | 142.275 | 3253.909 | .002 | | | |
| 305 | 61 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 306 | 62 | N140B | 24.672 | 1126.427 | -36.309 | 2.137 | -.052 | -.09 |
| 307 | 62 | N141 | -24.51 | 1086.237 | 51.235 | -1.203 | .017 | -1.772 |
| 308 | 62 | N142 | 123.048 | 1041.244 | 56.212 | -.91 | -.007 | 1.815 |
| 309 | 62 | Totals: | 123.211 | 3253.909 | 71.138 | | | |
| 310 | 62 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 311 | 63 | N140B | 15.086 | 1130.071 | -12.282 | 2.152 | -.041 | -.088 |
| 312 | 63 | N141 | -51.247 | 1081.048 | 72.848 | -1.195 | .022 | -1.756 |
| 313 | 63 | N142 | 107.299 | 1042.789 | 62.644 | -.911 | -.023 | 1.817 |
| 314 | 63 | Totals: | 71.138 | 3253.909 | 123.209 | | | |
| 315 | 63 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 316 | 64 | N140B | 1.477 | 816.721 | 15.962 | 1.563 | -.019 | -.061 |
| 317 | 64 | N141 | -63.456 | 772.514 | 74.349 | -.853 | .021 | -1.248 |
| 318 | 64 | N142 | 61.98 | 751.613 | 51.961 | -.657 | -.033 | 1.309 |
| 319 | 64 | Totals: | .001 | 2340.848 | 142.273 | | | |
| 320 | 64 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 321 | 65 | N140B | -13.517 | 815.166 | 5.205 | 1.56 | -.003 | -.06 |
| 322 | 65 | N141 | -88.065 | 768.88 | 78.378 | -.847 | .011 | -1.235 |
| 323 | 65 | N142 | 30.447 | 756.803 | 39.625 | -.666 | -.038 | 1.322 |
| 324 | 65 | Totals: | -71.136 | 2340.848 | 123.209 | | | |
| 325 | 65 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 326 | 66 | N140B | -25.294 | 811.267 | -21.084 | 1.548 | .01 | -.06 |
| 327 | 66 | N141 | -101.046 | 767.676 | 70.553 | -.845 | -.005 | -1.229 |
| 328 | 66 | N142 | 3.131 | 761.905 | 21.668 | -.676 | -.036 | 1.336 |
| 329 | 66 | Totals: | -123.209 | 2340.848 | 71.137 | | | |
| 330 | 66 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 331 | 67 | N140B | -30.7 | 806.07 | -55.866 | 1.53 | .016 | -.061 |
| 332 | 67 | N141 | -98.921 | 769.226 | 52.969 | -.846 | -.021 | -1.231 |
| 333 | 67 | N142 | -12.653 | 765.553 | 2.898 | -.684 | -.025 | 1.347 |
| 334 | 67 | Totals: | -142.274 | 2340.849 | 0 | | | |
| 335 | 67 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 336 | 68 | N140B | -28.284 | 800.968 | -89.819 | 1.511 | .014 | -.063 |
| 337 | 68 | N141 | -82.255 | 773.114 | 30.338 | -.851 | -.033 | -1.241 |
| 338 | 68 | N142 | -12.67 | 766.767 | -11.654 | -.687 | -.01 | 1.352 |
| 339 | 68 | Totals: | -123.209 | 2340.849 | -71.135 | | | |
| 340 | 68 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 341 | 69 | N140B | -18.695 | 797.326 | -113.844 | 1.497 | .003 | -.065 |
| 342 | 69 | N141 | -55.521 | 778.298 | 8.727 | -.858 | -.039 | -1.257 |
| 343 | 69 | N142 | 3.079 | 765.224 | -18.089 | -.686 | .006 | 1.35 |
| 344 | 69 | Totals: | -71.137 | 2340.849 | -123.207 | | | |
| 345 | 69 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 346 | 70 | N140B | -4.5 | 796.121 | -121.508 | 1.49 | -.012 | -.067 |
| 347 | 70 | N141 | -25.876 | 783.391 | -6.078 | -.866 | -.035 | -1.273 |
| 348 | 70 | N142 | 30.377 | 761.337 | -14.685 | -.679 | .019 | 1.341 |
| 349 | 70 | Totals: | 0 | 2340.849 | -142.271 | | | |
| 350 | 70 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |

Joint Reactions (Continued)

| | LC | Joint Label | X [lb] | Y [lb] | Z [lb] | MX [k-ft] | MY [k-ft] | MZ [k-ft] |
|-----|----|-------------|----------|----------|----------|-----------|-----------|-----------|
| 351 | 71 | N140B | 10.495 | 797.676 | -110.75 | 1.493 | -.029 | -.068 |
| 352 | 71 | N141 | -1.268 | 787.026 | -10.106 | -.872 | -.025 | -1.286 |
| 353 | 71 | N142 | 61.91 | 756.146 | -2.351 | -.67 | .024 | 1.328 |
| 354 | 71 | Totals: | 71.138 | 2340.849 | -123.206 | | | |
| 355 | 71 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 356 | 72 | N140B | 22.272 | 801.573 | -84.459 | 1.505 | -.042 | -.068 |
| 357 | 72 | N141 | 11.711 | 788.23 | -2.281 | -.874 | -.009 | -1.293 |
| 358 | 72 | N142 | 89.227 | 751.045 | 15.605 | -.66 | .022 | 1.314 |
| 359 | 72 | Totals: | 123.21 | 2340.849 | -71.135 | | | |
| 360 | 72 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 361 | 73 | N140B | 27.677 | 806.77 | -49.676 | 1.523 | -.048 | -.067 |
| 362 | 73 | N141 | 9.586 | 786.68 | 15.301 | -.872 | .007 | -1.29 |
| 363 | 73 | N142 | 105.012 | 747.398 | 34.377 | -.653 | .011 | 1.303 |
| 364 | 73 | Totals: | 142.275 | 2340.849 | .001 | | | |
| 365 | 73 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 366 | 74 | N140B | 25.259 | 811.873 | -15.724 | 1.542 | -.045 | -.065 |
| 367 | 74 | N141 | -7.079 | 782.791 | 37.931 | -.867 | .019 | -1.28 |
| 368 | 74 | N142 | 105.03 | 746.184 | 48.93 | -.649 | -.004 | 1.298 |
| 369 | 74 | Totals: | 123.21 | 2340.849 | 71.137 | | | |
| 370 | 74 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |
| 371 | 75 | N140B | 15.67 | 815.515 | 8.3 | 1.556 | -.035 | -.063 |
| 372 | 75 | N141 | -33.812 | 777.606 | 59.543 | -.86 | .025 | -1.265 |
| 373 | 75 | N142 | 89.28 | 747.727 | 55.366 | -.65 | -.02 | 1.3 |
| 374 | 75 | Totals: | 71.138 | 2340.848 | 123.209 | | | |
| 375 | 75 | COG (ft): | X: -.033 | Y: .59 | Z: -.025 | | | |

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 [... | phi*Mn ... | phi*Mn ... | Cb | Eqn |
|----|--------|----------|------------|---------|--------------|---------|-----|----|-------------|---------------|------------|------------|------|-------|
| 1 | M1 | PIPE 3.0 | .151 | 8.472 | 18 .061 | 4.722 | | 20 | 25150.3... | 65205 | 5.749 | 5.749 | 2... | H1-1b |
| 2 | M10 | HSS4X4X4 | .166 | 2.375 | 14 .053 | 2.375 | y | 24 | 136263... | 139518 | 16.181 | 16.181 | 1... | H1-1b |
| 3 | MP3A | PIPE 2.0 | .161 | 3.125 | 4 .054 | 3.125 | | 6 | 20866.7... | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 4 | MP4A | PIPE 2.0 | .134 | 3.555 | 16 .114 | 3.609 | | 10 | 23088.1... | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 5 | MP2A | PIPE 2.0 | .310 | 3.387 | 2 .140 | 3.449 | | 10 | 20804.1... | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 6 | MP1A | PIPE 2.0 | .256 | 3.555 | 22 .114 | 3.609 | | 4 | 23088.1... | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 7 | M43 | HSS4X4X4 | .165 | 0 | 24 .062 | 0 | y | 17 | 136263... | 139518 | 16.181 | 16.181 | 1... | H1-1b |
| 8 | M46 | PL1/2x6 | .209 | .531 | 2 .102 | .531 | y | 15 | 64456.2... | 97200 | 1.012 | 12.15 | 1... | H1-1b |
| 9 | M51B | L2x2x3 | .127 | 0 | 3 .013 | 4.33 | y | 17 | 9144.026 | 23392.8 | .558 | 1.098 | 1... | H2-1 |
| 10 | M52B | L2x2x3 | .136 | 4.33 | 11 .012 | 0 | y | 21 | 9144.026 | 23392.8 | .558 | 1.093 | 1... | H2-1 |
| 11 | M76 | PL3/8x6 | .176 | 0 | 1 .369 | 0 | y | 20 | 70677.9... | 72900 | .57 | 9.113 | 1... | H1-1b |
| 12 | M77 | PL3/8x6 | .289 | .167 | 8 .511 | 0 | y | 13 | 71601.7... | 72900 | .57 | 9.113 | 1... | H1-1b |
| 13 | M80 | PL1/2x6 | .069 | .112 | 1 .036 | .112 | y | 4 | 96757.5... | 97200 | 1.012 | 12.15 | 1... | H1-1b |
| 14 | M84 | PL3/8x6 | .160 | 0 | 1 .258 | 0 | y | 20 | 70677.9... | 72900 | .57 | 9.113 | 1... | H1-1b |
| 15 | M85 | PL3/8x6 | .298 | .167 | 6 .534 | 0 | y | 24 | 71601.7... | 72900 | .57 | 9.113 | 2... | H1-1b |
| 16 | M91 | PL1/2x6 | .062 | .112 | 1 .059 | 0 | y | 3 | 96757.5... | 97200 | 1.012 | 12.15 | 1... | H1-1b |
| 17 | M90A | PIPE 3.0 | .143 | 4.861 | 14 .058 | 8.611 | | 16 | 25150.3... | 65205 | 5.749 | 5.749 | 2... | H1-1b |
| 18 | MP4C | PIPE 2.0 | .184 | 3.555 | 24 .112 | 3.609 | | 6 | 23088.1... | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 19 | MP2C | PIPE 2.0 | .325 | 3.387 | 10 .141 | 3.449 | | 1 | 20804.1... | 32130 | 1.872 | 1.872 | 1... | H1-1b |
| 20 | MP1C | PIPE 2.0 | .275 | 3.555 | 18 .112 | 3.609 | | 12 | 23088.1... | 32130 | 1.872 | 1.872 | 2... | H1-1b |
| 21 | M107A | PIPE 3.0 | .141 | 4.861 | 22 .056 | 8.611 | | 24 | 25150.3... | 65205 | 5.749 | 5.749 | 2... | H1-1b |
| 22 | MP4B | PIPE 2.0 | .161 | 3.555 | 20 .111 | 3.609 | | 3 | 23088.1... | 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 [...] | phi*Mn ... | phi*Mn ... | Cb | Eqn |
|----|--------|----------|------------|---------|--------------|---------|-------|----|-------------|---------------|------------|------------|--------|-----------|
| 23 | MP2B | PIPE 2.0 | .321 | 3.324 | 6 | .141 | 3.387 | | 2 | 20804.1... | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 24 | MP1B | PIPE 2.0 | .253 | 3.555 | 14 | .111 | 3.609 | | 9 | 23088.1... | 32130 | 1.872 | 1.872 | 2...H1-1b |
| 25 | M77A | HSS4X4X4 | .165 | 0 | 20 | .064 | 0 | y | 13 | 136263... | 139518 | 16.181 | 16.181 | 1...H1-1b |
| 26 | M78A | PL1/2x6 | .219 | .531 | 10 | .122 | .531 | y | 47 | 64456.2... | 97200 | 1.012 | 12.15 | 1...H1-1b |
| 27 | M79B | L2x2x3 | .128 | 0 | 10 | .013 | 4.33 | y | 13 | 9144.026 | 23392.8 | .558 | 1.072 | 1...H2-1 |
| 28 | M80A | L2x2x3 | .137 | 0 | 8 | .012 | 0 | y | 17 | 9144.026 | 23392.8 | .558 | 1.072 | 1...H2-1 |
| 29 | M84A | PL3/8x6 | .194 | 0 | 9 | .377 | 0 | y | 15 | 70677.9... | 72900 | .57 | 9.113 | 1...H1-1b |
| 30 | M85A | PL3/8x6 | .285 | .167 | 4 | .493 | 0 | y | 21 | 71601.7... | 72900 | .57 | 9.113 | 1...H1-1b |
| 31 | M87 | PL1/2x6 | .075 | .112 | 9 | .048 | .112 | y | 37 | 96757.5... | 97200 | 1.012 | 12.15 | 1...H1-1b |
| 32 | M89 | PL3/8x6 | .187 | 0 | 9 | .256 | 0 | y | 16 | 70677.9... | 72900 | .57 | 9.113 | 1...H1-1b |
| 33 | M90 | PL3/8x6 | .318 | .167 | 2 | .545 | 0 | y | 20 | 71601.7... | 72900 | .57 | 9.113 | 2...H1-1b |
| 34 | M92A | PL1/2x6 | .071 | .112 | 9 | .100 | 0 | y | 47 | 96757.5... | 97200 | 1.012 | 12.15 | 1...H1-1b |
| 35 | M100B | HSS4X4X4 | .166 | 0 | 16 | .063 | 0 | y | 21 | 136263... | 139518 | 16.181 | 16.181 | 1...H1-1b |
| 36 | M101B | PL1/2x6 | .214 | .531 | 10 | .105 | .531 | y | 20 | 64456.2... | 97200 | 1.012 | 12.15 | 1...H1-1b |
| 37 | M102B | L2x2x3 | .123 | 0 | 6 | .013 | 4.33 | y | 21 | 9144.026 | 23392.8 | .558 | 1.072 | 1...H2-1 |
| 38 | M103B | L2x2x3 | .142 | 0 | 4 | .012 | 0 | y | 13 | 9144.026 | 23392.8 | .558 | 1.072 | 1...H2-1 |
| 39 | M107B | PL3/8x6 | .185 | 0 | 5 | .383 | 0 | y | 13 | 70677.9... | 72900 | .57 | 9.113 | 1...H1-1b |
| 40 | M108A | PL3/8x6 | .262 | .167 | 12 | .507 | 0 | y | 17 | 71601.7... | 72900 | .57 | 9.113 | 1...H1-1b |
| 41 | M110A | PL1/2x6 | .071 | .112 | 5 | .038 | .112 | y | 9 | 96757.5... | 97200 | 1.012 | 12.15 | 1...H1-1b |
| 42 | M112A | PL3/8x6 | .186 | 0 | 5 | .261 | 0 | y | 24 | 70677.9... | 72900 | .57 | 9.113 | 1...H1-1b |
| 43 | M113A | PL3/8x6 | .330 | .167 | 10 | .542 | 0 | y | 16 | 71601.7... | 72900 | .57 | 9.113 | 2...H1-1b |
| 44 | M115A | PL1/2x6 | .067 | .112 | 5 | .058 | 0 | y | 7 | 96757.5... | 97200 | 1.012 | 12.15 | 1...H1-1b |
| 45 | M122A | HSS4X4X4 | .159 | 2.375 | 22 | .050 | 2.375 | y | 21 | 136263... | 139518 | 16.181 | 16.181 | 1...H1-1b |
| 46 | M123A | HSS4X4X4 | .165 | 2.375 | 17 | .051 | 2.375 | y | 16 | 136263... | 139518 | 16.181 | 16.181 | 1...H1-1b |
| 47 | M124 | HSS4X4X4 | .336 | 0 | 23 | .077 | 0 | y | 22 | 124770... | 139518 | 16.181 | 16.181 | 3...H1-1b |
| 48 | M125 | HSS4X4X4 | .301 | 0 | 19 | .105 | 0 | y | 42 | 124770... | 139518 | 16.181 | 16.181 | 3...H1-1b |
| 49 | M126 | HSS4X4X4 | .323 | 0 | 15 | .080 | 0 | y | 14 | 124770... | 139518 | 16.181 | 16.181 | 3...H1-1b |
| 50 | M103 | PIPE 2.0 | .087 | 2.5 | 2 | .011 | 2.5 | | 2 | 23808.54 | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 51 | MP3B | PIPE 2.0 | .230 | 3.125 | 8 | .065 | 3.125 | | 10 | 20866.7... | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 52 | MP3C | PIPE 2.0 | .225 | 3.125 | 12 | .066 | 3.125 | | 2 | 20866.7... | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 53 | M107 | PIPE 2.0 | .150 | 3.125 | 4 | .046 | 3.125 | | 7 | 20866.7... | 32130 | 1.872 | 1.872 | 1...H1-1b |
| 54 | M104A | PIPE 2.5 | .115 | 6.667 | 21 | .028 | 2.778 | | 8 | 12795.8... | 50715 | 3.596 | 3.596 | 1...H1-1b |
| 55 | M109B | PIPE 2.5 | .128 | 6.389 | 17 | .030 | 1.944 | | 2 | 12795.8... | 50715 | 3.596 | 3.596 | 2...H1-1b |
| 56 | M113 | PIPE 2.5 | .119 | 6.389 | 13 | .031 | 1.944 | | 4 | 12795.8... | 50715 | 3.596 | 3.596 | 2...H1-1b |
| 57 | M126A | L3X3X4 | .155 | 0 | 5 | .018 | 0 | y | 5 | 42102.7... | 46656 | 1.688 | 3.756 | 2...H2-1 |
| 58 | M127 | L3X3X4 | .191 | 0 | 2 | .020 | 0 | y | 2 | 42102.7... | 46656 | 1.688 | 3.756 | 2...H2-1 |
| 59 | M128 | L3X3X4 | .183 | 0 | 3 | .021 | 0 | y | 3 | 42102.7... | 46656 | 1.688 | 3.756 | 2...H2-1 |

I. Mount-to-Tower Connection Check

Custom Orientation Required

No

Tower Connection Bolt Checks

Yes

Bolt Orientation

Parallel

Bolt Quantity per Reaction:

4

d_x (in) (Delta X of typ. bolt config. sketch) :

7

d_y (in) (Delta Y of typ. bolt config. sketch) :

7

Bolt Type:

A325N

Bolt Diameter (in):

0.625

Required Tensile Strength / bolt (kips):

4.7

Required Shear Strength / bolt (kips):

0.7

Tensile Capacity / bolt (kips):

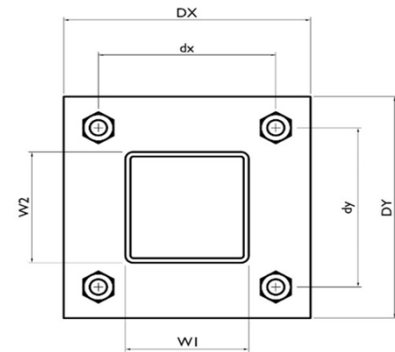
20.7

Shear Capacity / bolt (kips):

12.4

Bolt Overall Utilization:

22.6%



Tower Connection Baseplate Checks

Yes

Connecting Standoff Member Shape:

Rect Tube

Weld Stiffener Configuration:

No Stiffeners

Plate Width, D_x (in):

10

Plate Height, D_y (in):

10

W_1 (in):

4

W_2 (in):

4

Member Thickness (in):

0.25

Stiffener location a_1 (in):

Stiffener location b_1 (in):

Stiffener location a_2 (in):

Stiffener location b_2 (in):

F_y (ksi, plate):

36

Plate Thickness (in):

0.625

Length of Yield Line, L_y (in):

7.75

Bolt Eccentricity, e (in):

2.35

M_u (kip-in):

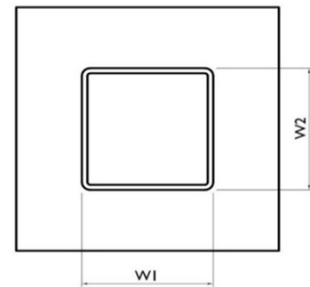
11.03

$\Phi * M_n$ (kip-in):

24.52

Plate Bending Utilization:

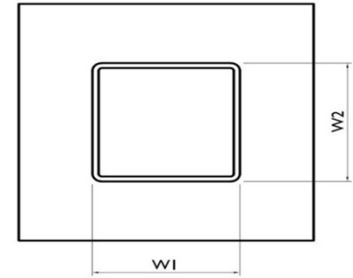
45.0%

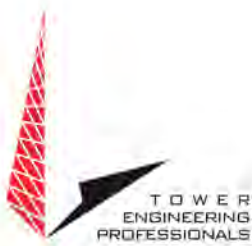


Tower Connection Weld Checks

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

| |
|--------------|
| Yes |
| Rectangle |
| None |
| 4 |
| 4 |
| 4 |
| 16.00 |
| 21.33 |
| 21.33 |
| 85.33 |
| 2.25 |
| 2.25 |
| 2.05 |
| 5.57 |
| 36.9% |





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

Non-Ionizing Electromagnetic Radiation (NIER) Study

Site Number:

302506

Site Name:

Winchester CT 3

Location:

Winsted, Connecticut

Tenants:

AT&T Mobility, T-Mobile,
Litchfield County Dispatch Inc., Connecticut State Police Dept of Public,
Verizon Wireless, & Eversource Energy

Prepared For:

American Tower, Inc.
Woburn, Massachusetts

July 15th, 2024

94002 P-434715

Prepared By:

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

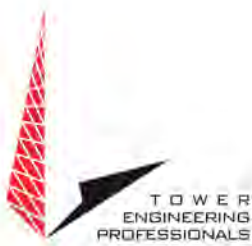
Approved By:



Scott C. Brantley 07/15/24

CIVIL | GEOTECHNICAL | SURVEY | INSPECTION | STRUCTURAL | PM&E | ENVIRONMENTAL | CONSTRUCTION

Nationwide Since 1997



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

Contents

| | |
|--|----|
| DISCLAIMER NOTICE | 3 |
| INTRODUCTION | 4 |
| SITE AND FACILITY CONSIDERATIONS..... | 4 |
| POWER DENSITY CALCULATIONS..... | 4 |
| SITE MITIGATION & CONTROL | 5 |
| COMPLIANCE DETERMINATION | 5 |
| APPENDIX 1 SITE PHOTOS..... | 6 |
| APPENDIX 2.1 ANTENNA INVENTORY | 7 |
| APPENDIX 2.2 ANTENNA INVENTORY | 8 |
| APPENDIX 2.3 ANTENNA INVENTORY | 9 |
| APPENDIX 3 MPE LIMIT STUDY..... | 10 |
| APPENDIX 4 RF HAZARD SIGNS..... | 11 |
| APPENDIX 5 INFORMATION PERTAINING TO MPE STUDIES | 12 |
| APPENDIX 6 MPE STANDARDS METHODOLOGY | 14 |



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

Disclaimer Notice

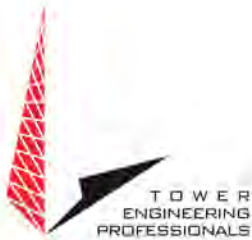
This work is based upon our best interpretation of available information. However, these data and their interpretation are constantly changing. Therefore, we do not warrant that any undertaking based on this report will be successful, or that others will not require further research or actions in support of this proposal or future undertaking. In the event of errors, our liability is strictly limited to the replacement of this document with a corrected one. Liability for consequential damages is specifically denied. Any use of this document constitutes an agreement to hold Tower Engineering Professionals and its employees harmless and indemnify it for all liability, claims, demands, and litigation expenses and attorney's fees arising out of such use.

Work product documents released prior to account settlement remain the sole property of Tower Engineering Professionals and must be returned on demand. Underlying work notes and data relating to this document remain the property of Tower Engineering Professionals. This document shall not be reproduced in whole or part without the permission of Tower Engineering Professionals. Any dispute hereunder shall be adjudicated in North Carolina. Any use or retention of this document constitutes acceptance of these terms, the entire work product, and all charges associated therewith.

COPYRIGHT © 2024 BY

TOWER ENGINEERING PROFESSIONALS

RALEIGH, NORTH CAROLINA



Non-Ionizing Electromagnetic Radiation (NIER) Study

302506 Winchester CT 3
Winsted, 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.

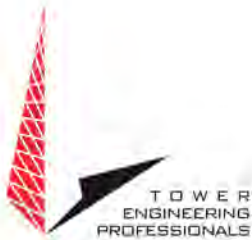
SITE AND FACILITY CONSIDERATIONS

Site 302506 Winchester CT 3 is located at 15 Oakdale Ave. in Winsted, Connecticut at coordinates 41.921621, -73.049443. The support structure is a 181' monopole. An aerial view of the tower can be found in Appendix 1, Site Photos. The tenants are AT&T Mobility (AT&T), T-Mobile (TMO), Litchfield County Dispatch Inc. (LCDI), Connecticut State Police Dept of Public (CSPDP), Verizon Wireless (VZW), & Eversource Energy (EE). 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.



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

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 302506 Winchester CT 3. RF NIER Study 07/11/24.
- FCC databases.
- Carrier standard configurations.
- Empirical data collected by TEP.

SITE MITIGATION & CONTROL

In order to comply with FCC, tenant, & ATC requirements, TEP recommends the placement of signage at the following points:

Site Entrance

1. Site ID Sign (tower owner defined)
2. RF Information Sign (Green)

Tower Access Point

1. RF Exposure Sign (Red)

Alpha Sector

No additional mitigation is required.

Beta Sector

No additional mitigation is required.

Gamma Sector

No additional mitigation is required

COMPLIANCE DETERMINATION

With the above mitigation implemented, this installation **WILL BE** in compliance with current FCC MPE limits as described in FCC OET-65.



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

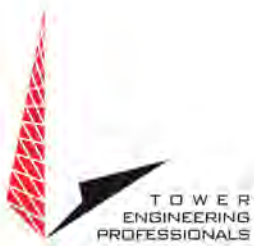
APPENDIX 1 Site Photos

Aerial View of Site



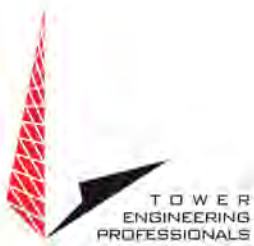
CIVIL | GEOTECHNICAL | SURVEY | INSPECTION | STRUCTURAL | PM&E | ENVIRONMENTAL | CONSTRUCTION

Nationwide Since 1997



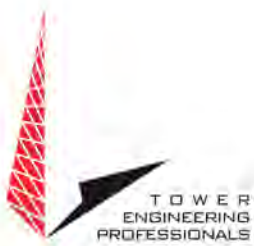
Appendix 2.1 Antenna Inventory

| 302506 Winchester CT 3 | | | | | | | |
|------------------------|---------|----------------------|--------------------------------|----------------------|-------------|------------------------------|-----------------------|
| Antenna Inventory | | | | | | | |
| Antenna # | Carrier | Antenna Manufacturer | Antenna Model | Frequency Band (MHz) | Azimuth (°) | Effective Radiated Power (W) | Radiation Center (ft) |
| 1 | AT&T | CCI | DMP65R-BU6DA | 700/800/1800/1900 | 023 | 54425 | 184.0 |
| 2 | AT&T | CCI | DMP65R-BU6DA | 700/800/1800/1900 | 143 | 54425 | 184.0 |
| 3 | AT&T | CCI | DMP65R-BU6DA | 700/800/1800/1900 | 263 | 54425 | 184.0 |
| 4 | AT&T | CCI | OPA65R-BU6B | 1700 | 023 | 22550 | 184.0 |
| 5 | AT&T | CCI | OPA65R-BU6B | 1700 | 143 | 22550 | 184.0 |
| 6 | AT&T | CCI | OPA65R-BU6B | 1700 | 263 | 22550 | 184.0 |
| 7 | AT&T | CCI | HPA-65R-BUU-H6 | 2300/700/85 | 023 | 27087 | 184.0 |
| 8 | AT&T | CCI | HPA-65R-BUU-H6 | 2300/700/85 | 143 | 27087 | 184.0 |
| 9 | AT&T | CCI | HPA-65R-BUU-H6 | 2300/700/85 | 263 | 27087 | 184.0 |
| 10 | TMO | RFS | APXVAARR24_43-U-NA20 | 1900/2100/600/700 | 020 | 32684 | 166.0 |
| 11 | TMO | RFS | APXVAARR24_43-U-NA20 | 1900/2100/600/700 | 190 | 32684 | 166.0 |
| 12 | TMO | RFS | APXVAARR24_43-U-NA20 | 1900/2100/600/700 | 280 | 32684 | 166.0 |
| 13 | TMO | Ericsson | Air6449 B41 | 2500 | 020 | 10000 | 166.0 |
| 14 | TMO | Ericsson | Air6449 B41 | 2500 | 190 | 10000 | 166.0 |
| 15 | TMO | Ericsson | Air6449 B41 | 2500 | 280 | 10000 | 166.0 |
| 16 | TMO | Commscope | VHLP2-11W/A | 10 | 298 | 22202 | 166.0 |
| 17 | LCDI | Sinclair | SD210-SF2P4SNM | 156 | 270 | 357 | 150.0 |
| 18 | CSPDP | Sinclair | SC442D-HF1LDF(DXX-I30-G9-NUFP) | 851 | - | 3926 | 147.0 |
| 19 | CSPDP | Sinclair | SC442D-HF1LDF(DXX-I30-G9-NUFP) | 851 | - | 3926 | 147.0 |
| 20 | CSPDP | Sinclair | SC479-HF1LDF(E5765) | 852 | - | 4405 | 146.0 |



Appendix 2.2 Antenna Inventory

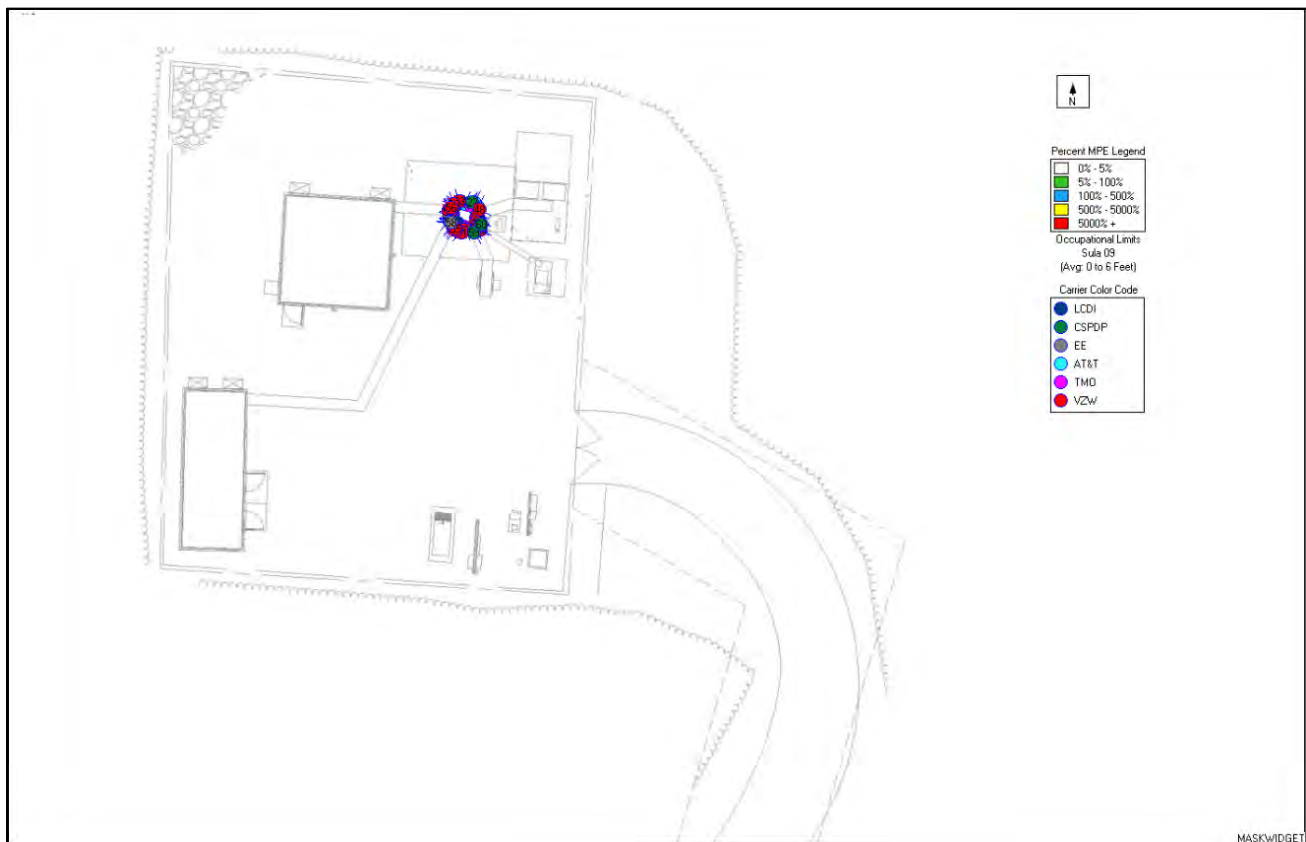
| 302506 Winchester CT 3 | | | | | | | |
|------------------------|---------|----------------------|---------------------|-----------------------|-------------|------------------------------|-----------------------|
| Antenna Inventory | | | | | | | |
| Antenna # | Carrier | Antenna Manufacturer | Antenna Model | Frequency Band (MHz) | Azimuth (°) | Effective Radiated Power (W) | Radiation Center (ft) |
| 21 | CSPDP | Decibel | DB809DK-XT | 851-853 | - | 3926 | 146.0 |
| 22 | CSPDP | Decibel | DB809DK-XT | 851-853 | - | 3926 | 146.0 |
| 23 | CSPDP | Sinclair | SC479-HF1LDF(E5765) | 852 | - | 4405 | 146.0 |
| 24 | CSPDP | Decibel | DB809DK-XT | 851-853 | - | 3926 | 146.0 |
| 25 | CSPDP | Decibel | DB809DK-XT | 851-853 | - | 3926 | 146.0 |
| 26 | CSPDP | Telewave | ANT150D (5 lbs) | 138-174 | 000 | 889 | 142.0 |
| 27 | CSPDP | Telewave | ANT150D (5 lbs) | 138-174 | 000 | 889 | 142.0 |
| 28 | VZW | Antel | LPA-80063/6CF | 850 | 230 | 17179 | 125.0 |
| 29 | VZW | Antel | LPA-80063/6CF | 850 | 230 | 17179 | 125.0 |
| 30 | VZW | Antel | LPA-80080/6CF | 850 | 120 | 15311 | 125.0 |
| 31 | VZW | Antel | LPA-80080/6CF | 850 | 340 | 15311 | 125.0 |
| 32 | VZW | Antel | LPA-80080/6CF | 850 | 120 | 15311 | 125.0 |
| 33 | VZW | Antel | LPA-80080/6CF | 850 | 340 | 15311 | 125.0 |
| 34 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/890 | 120 | 38302 | 125.0 |
| 35 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/890 | 230 | 38302 | 125.0 |
| 36 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/890 | 340 | 38302 | 125.0 |
| 37 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/890 | 120 | 38302 | 125.0 |
| 38 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/890 | 230 | 38302 | 125.0 |
| 39 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/890 | 340 | 38302 | 125.0 |







Appendix 2.3 Antenna Inventory

| 302506 Winchester CT 3 | | | | | | | |
|------------------------|---------|----------------------|---------------|-----------------------|-------------|------------------------------|-----------------------|
| Antenna Inventory | | | | | | | |
| Antenna # | Carrier | Antenna Manufacturer | Antenna Model | Frequency Band (MHz) | Azimuth (°) | Effective Radiated Power (W) | Radiation Center (ft) |
| 40 | VZW | Antel | LPA-80080/6CF | 850 | 120 | 15311 | 121.0 |
| 41 | VZW | Antel | LPA-80080/6CF | 850 | 340 | 15311 | 121.0 |
| 42 | VZW | Antel | LPA-80080/6CF | 850 | 120 | 15311 | 121.0 |
| 43 | VZW | Antel | LPA-80080/6CF | 850 | 340 | 15311 | 121.0 |
| 44 | VZW | Antel | LPA-80063/6CF | 850 | 230 | 17179 | 121.0 |
| 45 | VZW | Antel | LPA-80063/6CF | 850 | 230 | 17179 | 121.0 |
| 46 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/850 | 120 | 38302 | 121.0 |
| 47 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/850 | 230 | 38302 | 121.0 |
| 48 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/850 | 340 | 38302 | 121.0 |
| 49 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/850 | 120 | 38302 | 121.0 |
| 50 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/850 | 230 | 38302 | 121.0 |
| 51 | VZW | Commscope | JAHH-65B-R3B | 1900/2100/750/850/850 | 340 | 38302 | 121.0 |
| 52 | VZW | Samsung | MT6413-77A | 3800 | 120 | 95294 | 121.0 |
| 53 | VZW | Samsung | MT6413-77A | 3800 | 230 | 95294 | 121.0 |
| 54 | VZW | Samsung | MT6413-77A | 3800 | 340 | 95294 | 121.0 |
| 55 | EE | Andrew | DB586 | 900 | 270 | 1574 | 97.0 |
| 56 | EE | Andrew | DB586 | 900 | 270 | 1574 | 93.0 |
| 57 | CSPDP | RFS | PA6-65AC | 6700 | 150 | 424534 | 80.0 |
| 58 | CSPDP | RFS | PA6-65AC | 6700 | 150 | 424534 | 80.0 |

Appendix 3 MPE Limit Study



Appendix 4 RF Hazard Signs

| RF Safety Exposure Categorization | | | | | | | | |
|--|---------------------|---------------------|----------------|---|----------------|--------|--|---|
| Exposure Conditions | Control Measures | Signage | | | | | | |
| <ul style="list-style-type: none"> Operational of the source(s) or locations where RF fields are too weak to cause exposures greater than General Public limit. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>1</td><td><20%</td><td><100%</td></tr> </table> <ul style="list-style-type: none"> Green zone is where the time and spatial-average is below 20% of Occupational Worker limit or <100% of General Public limit. | Cat. | Occupational Worker | General Public | 1 | <20% | <100% | <ul style="list-style-type: none"> RF Safety Guideline/NIER report must be submitted to RFSO for approval. No special EME safety practices required in these areas. No signage required except Information sign. |  <p>*the antenna owner information and Antenna Structure Registration Number and must be displayed on the sign.</p> <p>INFORMATION sign for access to rooftop/access door.</p> |
| Cat. | Occupational Worker | General Public | | | | | | |
| 1 | <20% | <100% | | | | | | |
| <ul style="list-style-type: none"> Operational of the source(s) or locations where RF exposure could cause exposure greater than General Public limit but not the Occupational Worker limit to be exceeded in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General</th></tr> <tr> <td>2</td><td>≥20% but <100%</td><td>>100%</td></tr> </table> <ul style="list-style-type: none"> Blue zone is where the spatial average is between 20%-100% of Occupational Worker limit. This limit MUST be less than the Occupational limit. | Cat. | Occupational Worker | General | 2 | ≥20% but <100% | >100% | <ul style="list-style-type: none"> RF Safety Guideline/NIER report must be submitted to RFSO for approval. Recommended RF safety awareness training for all workers in this area. Controlled areas with barriers and/or signage required in these areas. Do not walk in front of the antenna face or no loitering in this controlled area. Individual MUST have full control over any area where the exposure levels exceed the limit. |  <p>NOTICE signage shall be posted on the barriers/stanchion to prevent anyone from entering into the area (must be cordon off around the antennas - 4 posts /3 signs).</p> <p>Or must be posted in location that can be easily viewed by individuals that enter the areas of concerns.</p> |
| Cat. | Occupational Worker | General | | | | | | |
| 2 | ≥20% but <100% | >100% | | | | | | |
| <ul style="list-style-type: none"> Operational of the source(s) or locations where RF exposure exceeded the Occupational Worker limit in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>3</td><td>≥100%</td><td>≥500%</td></tr> </table> <ul style="list-style-type: none"> Yellow zone is where the spatial average is above 100% of Occupational Worker limit. | Cat. | Occupational Worker | General Public | 3 | ≥100% | ≥500% | <ul style="list-style-type: none"> RF Safety Guideline/NIER report must be submitted to RFSO for approval. Individual shall not enter and work in these areas without RS approval Required RF safety training and access area is restricted only for authorized worker. Controlled areas with barriers and signage required in these areas. Do not walk in front of the antenna face. Require reduction of RF power and approval from Radiation Safety prior any work on the antennas. |  <p>CAUTION signage shall be posted on the barriers/stanchion to prevent anyone from entering into the area (must be cordon off around the antennas - 4 posts /3 signs).</p> |
| Cat. | Occupational Worker | General Public | | | | | | |
| 3 | ≥100% | ≥500% | | | | | | |
| <ul style="list-style-type: none"> Exposure will exceed exposure limit in accessible areas. <table border="1"> <tr> <th>Cat.</th><th>Occupational Worker</th><th>General Public</th></tr> <tr> <td>4</td><td>>500%</td><td>>1000%</td></tr> </table> <ul style="list-style-type: none"> Red zone is where the time and spatial-averaged levels fall above 500% of Occupational Worker limit or is not feasible to prevent exposures. | Cat. | Occupational Worker | General Public | 4 | >500% | >1000% | <ul style="list-style-type: none"> RF Safety Guideline/NIER report must be submitted to RFSO for approval. MUST re-engineer site to reduce the EME fields. No access allowed-Prohibited access! There must be controls to detect any unauthorized enter and terminate the RF energy in the area. Lock out tag out of transmitters during the maintenance of the antenna system. PPE is not sufficient. Special RF training and PPE are required. (Applies only to individuals trained by RS). |  <p>RF WARNING & Pacemaker DANGER signage or appropriate DANGER sign shall be posted very near radiation RF sources or if appropriate DANGER sign.</p> |
| Cat. | Occupational Worker | General Public | | | | | | |
| 4 | >500% | >1000% | | | | | | |



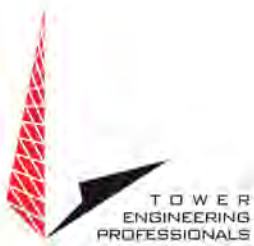
Appendix 5 Information Pertaining to MPE Studies

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

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

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

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



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

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

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



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

Appendix 6 MPE Standards Methodology

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

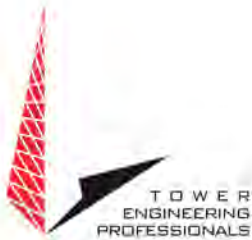
Compliance with the FCC limits on RF emissions are determined by spatially averaging a person's exposure over the projected area of an adult human body, that is approximately six-feet or two-meters, as defined in the ANSI/IEEE C95.1 standard. The MPE limits are specified as time-averaged exposure limits.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

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

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

f = frequency

* = Plane-wave equivalent power density



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

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

f = frequency

* = Plane-wave equivalent power density

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

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



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

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

Cylindrical Model (Near Field Predictions)

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

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

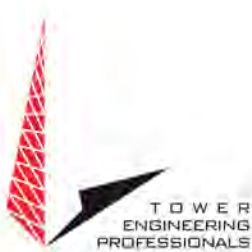
Where:

S = Power Density

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length



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

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

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

Where:

S = Power Density

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

P = Total Power into antenna

R = Distance from the antenna

L = Antenna aperture length

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



Spherical Model (Far Field Predictions)

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

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

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

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

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

Where:

S = Power Density

EIRP = Effective Radiated Power from antenna

Rc = Reflection Coefficient (2.56)

R = Distance from the antenna

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

ORIGIN ID:SYRA
CASSANDRA DARMODY
PYRAMID NETWORK SERVICES LLC
6615 TOWPATH RD

SHIP DATE: 24OCT24
ACTWGT: 0.50 LB
CAD: 114425996/INET4535

E SYRACUSE, NY 13057
UNITED STATES US

BILL SENDER

TO **TODD ARCELASCHI, MAYOR**
TOWN OF WINCHESTER
338 MAIN STREET

58CJ6/2D2B/C6C4

WINCHESTER CT 06098

(860) 379-2713
REF: UP20522B BP APP TMONY2003
INV: UP20522B BP APP TMONY2003
PO: UP20522B BP APP TMONY2003
DEPT:





TRK# 7795 0092 0389

0201

TUE - 29 OCT 5:00P

EXPRESS SAVER

SP HFDA

06098

CT-US BDL



After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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

SHIP DATE: 24OCT24
ACTWGT: 1.00 LB
CAD: 114425996/INET4535

E SYRACUSE, NY 13057
UNITED STATES US

BILL SENDER

TO **GEOFFREY GREEN, ASSIST PLANNER**
TOWN OF WINCHESTER
338 MAIN STREET

58CJ6/2D2B/C6C4

WINCHESTER CT 06098
(860) 738-6593 X 333 REF: ATCONY2000WINCHSTERCT3_14867785
INV: ATCONY2000WINCHSTERCT3_14867785
PO: ATCONY2000WINCHSTERCT3_14867785 DEPT:



TRK# 7795 0082 0526

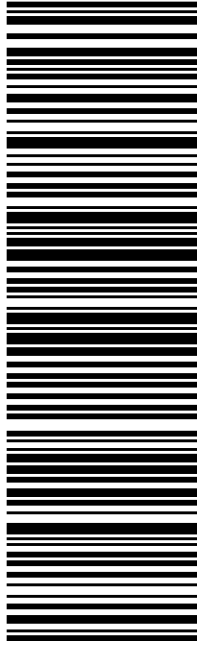
TUE - 29 OCT 5:00P

EXPRESS SAVER

K7 HFDA

06098

CT-US BDL



After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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

SHIP DATE: 24OCT24
ACTWGT: 0.50 LB
CAD: 114425996/INET4535

E SYRACUSE, NY 13057
UNITED STATES US

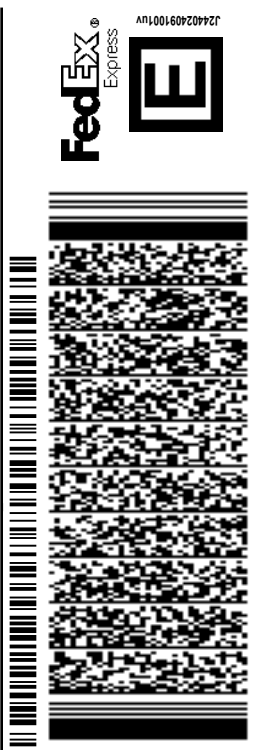
BILL SENDER

TO **PROPERTY MANAGEMENT**
AMERICAN TOWER CORP
10 PRESIDENTIAL WAY

WOBURN MA 01801

REF: ATC2000NYWINCHSTERCT3_14867785
IN: ATC2000NYWINCHSTERCT3_14867785
PO: ATC2000NYWINCHSTERCT3_14867785

DEPT:



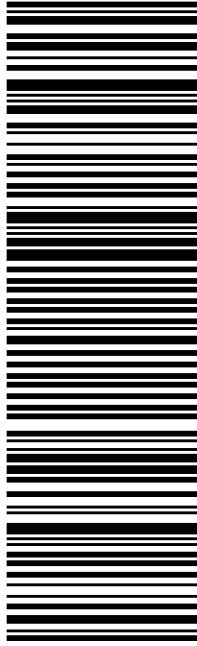
TRK# 7795 0036 4392

0201

SP BEDA

TUE - 29 OCT 5:00P
EXPRESS SAVER

01801
MA-US BOS



After printing this label:
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

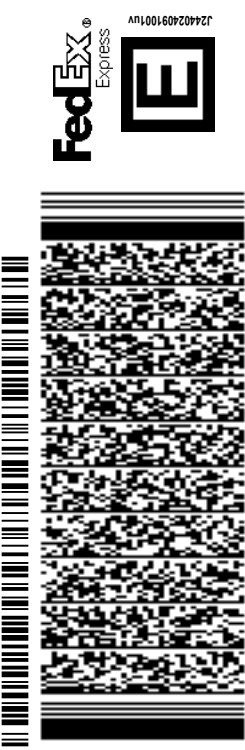
ORIGIN ID:SYRA (315) 569-9241
CASSANDRA DARMODY
PYRAMID NETWORK SERVICES LLC
6615 TOWPATH RD
E SYRACUSE, NY 13057
UNITED STATES US

SHIP DATE: 24OCT24
ACTWGT: 0.50 LB
CAD: 114425996/INET4535

BILL SENDER

TO PROPERTY MANAGEMENT #302506
AMERICAN TOWER CORP C/O W.STOW
10 PRESIDENTIAL WAY

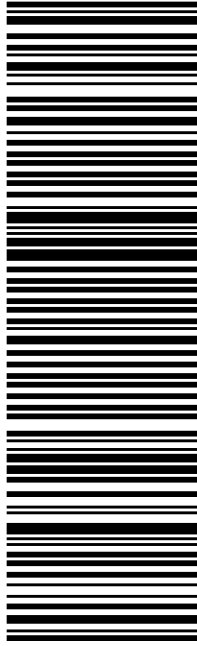
WOBURN MA 01801
(919) 306-1512
IN: ATCNY2000 E PUTNAM 14874508
PO: ATCNY2000 E PUTNAM 14874508
REF: ATCNY2000 E PUTNAM 14874508
DEPT:



TRK# 7795 0100 1775
0201

TUE - 29 OCT 5:00P
EXPRESS SAVER

SP BEDA
01801
MA-US BOS



After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.