NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Northeast Site Solutions
Denise Sabo
4 Angela's Way, Burlington CT 06013
203-435-3640
denise@northeastsitesolutions.com

January 13, 2021

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

RE: Exempt Modification Application
1027 Racebrook Road, Woodbridge, CT 06525
Latitude: 41.316666
Longitude: -73.011388
Site #: 876315_Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 1027 Racebrook Road, Woodbridge, CT 06525. Verizon Wireless currently maintains twelve (12) antennas at the 127-foot level of the existing 150-foot tower. The property is owned by The Tradition Golf Club at Oak Lane LLC and the tower is owned by Crown Castle. Verizon now intends to replace nine (9) antennas. The new antennas would be installed at the 127-foot level of the tower. This modification includes B2, B5 hardware that is both 4G (LTE), and 5G capable. Antenna mount modifications will be completed as per the attached Maser mount analysis dated December 2, 2021.

Verizon Planned Modifications:

Remove:
(1) 1-5/8" Coax

Remove and Replace:
(3) P65-16-XL-2 Antennas (REMOVE) – (3) Samsung MT6407-77A Antennas (REPLACE)
(6) RYMSA-MG-D3-800T0 Antennas (REMOVE) – (6) JMA MX06FR0660-03 Antennas (REPLACE)
(3) Nokia B4 RRH (REMOVE) - (3) Samsung RFV01U-D1A RRH (REPLACE)
(1) Raycap OVP (REMOVE) – (1) Raycap RVZDC-6627-PF-48 (REPLACE)

Install New:
(3) Samsung RFV01U-D2A RRH
(1) Hybrid Line 1-5/8"

Existing to Remain:
(3) ANTEL Antennas
(6) 1-5/8" Coax
(1) Hybrid Line 1-5/8"

The facility was approved by the Town of Woodbridge, Building Permit No. 9937 on January 21, 1998. Please see attached.

NORTHEAST SITE SOLUTIONS

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Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies§ 16- SOj-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.SA. § 16-SOj-73, a copy of this letter is being sent to Beth Heller, First Selectman and Kristine Sullivan, Acting Zoning Enforcement Officer for the Town of Woodbridge. A copy is also being sent to the tower owner and property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

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 replacement 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.

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,

Denise Sabo
Mobile: 203-435-3640
Fax: 413-521-0558
Office: 4 Angela's Way, Burlington CT 06013
E-mail: denise@northeastsitesolutions.com

NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Attachments

Cc: Beth Heller, First Selectman
Woodbridge Town Hall
11 Meetinghouse Lane
Woodbridge, CT 06525

Kristine Sullivan, Acting Zoning Enforcement Officer
Woodbridge Town Hall
11 Meetinghouse Lane
Woodbridge, CT 06525

The Tradition Golf Club at Oak Lane LLC, Property Owners
1027 Racebrook Road
Woodbridge, CT 06525

Crown Castle, Tower Owner

Exhibit A

Original Facility Approval

020.07

TOWN OF WOODBRIDGE, CONN.
BUILDING DEPARTMENT

Date Issued January 21 **19** 98

BUILDING PERMIT No. 9937

ISSUED TO SPRINT PCS (Michael Evanchick-Agent)

TO ERECT Installation of telecommunications TOWER & ANTENNAS and associated telecommunications equipment per application specifications & approved plans

LOCATION 1116 JOHNSON ROAD

DO NOT BACKFILL until the following inspections are made and approved..

Footings .....

Foundation drains & Dampproofing .....

DO NOT INSULATE or COVER until the following inspections are made and approved.

Structural ..... Plumbing .....

Electrical ..... Heating .....

Alarm System ..... Fireplace Hearth .....

Fireplace Smoke Chamber & Throat .....

DO NOT COVER until the following inspections are made and approved.

Insulation .....

The following FINAL INSPECTIONS are necessary for a CERTIFICATE OF OCCUPANCY.

Structural ..... Plumbing .....

Electrical ..... Heating .....

Alarm System ..... Air Conditioning .....

Water Heater ..... Oil Burner .....

Water Pump .....

THIS CARD MUST BE CONSPICUOUSLY DISPLAYED AT ALL TIMES DURING THE PROGRESS OF CONSTRUCTION.

Signed by _____
Building Official

rev. 11/93 tfk

Exhibit B

Property Card

Town of Woodbridge, CT

Property Listing Report

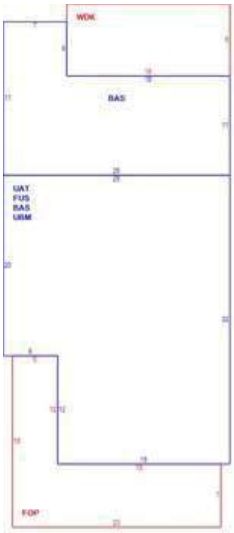
Map Block Lot	3003/890/1116//	Building #	1	PID	768	Account	102287

Property Information

Property Location	1116 JOHNSON RD
Owner	THE TRADITION GOLF CLUB AT
Co-Owner	OAK LANE LLC
Mailing Address	1027 RACEBROOK RD WOODBRIDGE CT 06525
Land Use	380R Golf Course
Land Class	C
Zoning Code	A
Census Tract	

Neighborhood	
Acreage	84.5
Utilities	Well,Septic
Lot Setting/Desc	Rural Level,Rolling
Book / Page	0682/0010
Additional Info	

Photo



Primary Construction Details

Year Built	1905
Building Desc.	Golf Course
Building Style	Conventional
Building Grade	C
Stories	2
Occupancy	1.00
Exterior Walls	Vinyl Siding
Exterior Walls 2	NA
Roof Style	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Walls	Plastered
Interior Walls 2	Drywall/Sheet
Interior Floors 1	Carpet
Interior Floors 2	Hardwood

Heating Fuel	Oil
Heating Type	Hot Water
AC Type	01
Bedrooms	04
Full Bathrooms	2
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	6
Bath Style	Average
Kitchen Style	Average
Fin Bsmt Area	NA
Fin Bsmt Quality	NA
Bsmt Gar	NA
Fireplaces	NA

(*Industrial / Commercial Details)

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

Report Created On 7/28/2020

Town of Woodbridge, CT

Property Listing Report | Map Block Lot 3003/890/1116// | Building # 1 | PID 768 | Account 102287

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

Item	Appraised	Assessed
Buildings	243400	170380
Extras	0	0
Improvements		
Outbuildings	841600	589120
Land	998300	408310
Total	2083300	1167810

Outbuilding and Extra Features

Type	Description
Shed	64 S.F.
GREENS	10 UNIT
Silo	644 DIAxHT

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	1045	1045
Open Porch	221	0
Upper Story, Finished	728	728
Attic, Unfinished	728	0
Basement, Unfinished	728	0
Wood Deck	144	0
Total Area	3594	1773

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
THE TRADITION GOLF CLUB AT	0682/0010	2012-01-05	1092561
OAK LANE COUNTRY CLUB INC	0622/0298	2009-06-19	0
OAK LANE COUNTRY CLUB INC	0094/0510	1970-12-14	0
OAK LANE COUNTRY CLUB INC	0073/0511	1963-01-10	0
OAK LANE COUNTRY CLUB INC	0070/0071	1961-05-11	0

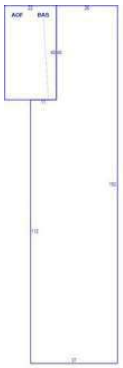
Report Created On 7/28/2020

Town of Woodbridge, CT

Property Listing Report | Map Block Lot 3003/890/1116// | Building # 2 | PID 768 | Account 102287

Photo

Sketch



Primary Construction Details

Year Built	1983
Building Desc.	Industrial
Building Style	Warehouse
Building Grade	C
Stories	1
Occupancy	1.00
Exterior Walls	Clapboard
Exterior Walls 2	NA
Roof Style	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Walls	Minim/Masonry
Interior Walls 2	NA
Interior Floors 1	Concr-Finished
Interior Floors 2	

Heating Fuel	Coal or Wood
Heating Type	None
AC Type	01
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	NA
Fin Bsmt Quality	NA
Bsmt Gar	NA
Fireplaces	NA

(*Industrial / Commercial Details)

Building Use	Comm. Warehouse
Building Condition	A
Sprinkler %	NA
Heat / AC	NONE
Frame Type	WOOD FRAME
Baths / Plumbing	AVERAGE
Ceiling / Wall	CEIL & WALLS
Rooms / Prtns	AVERAGE
Wall Height	10.00
First Floor Use	NA
Foundation	NA

Sub Areas

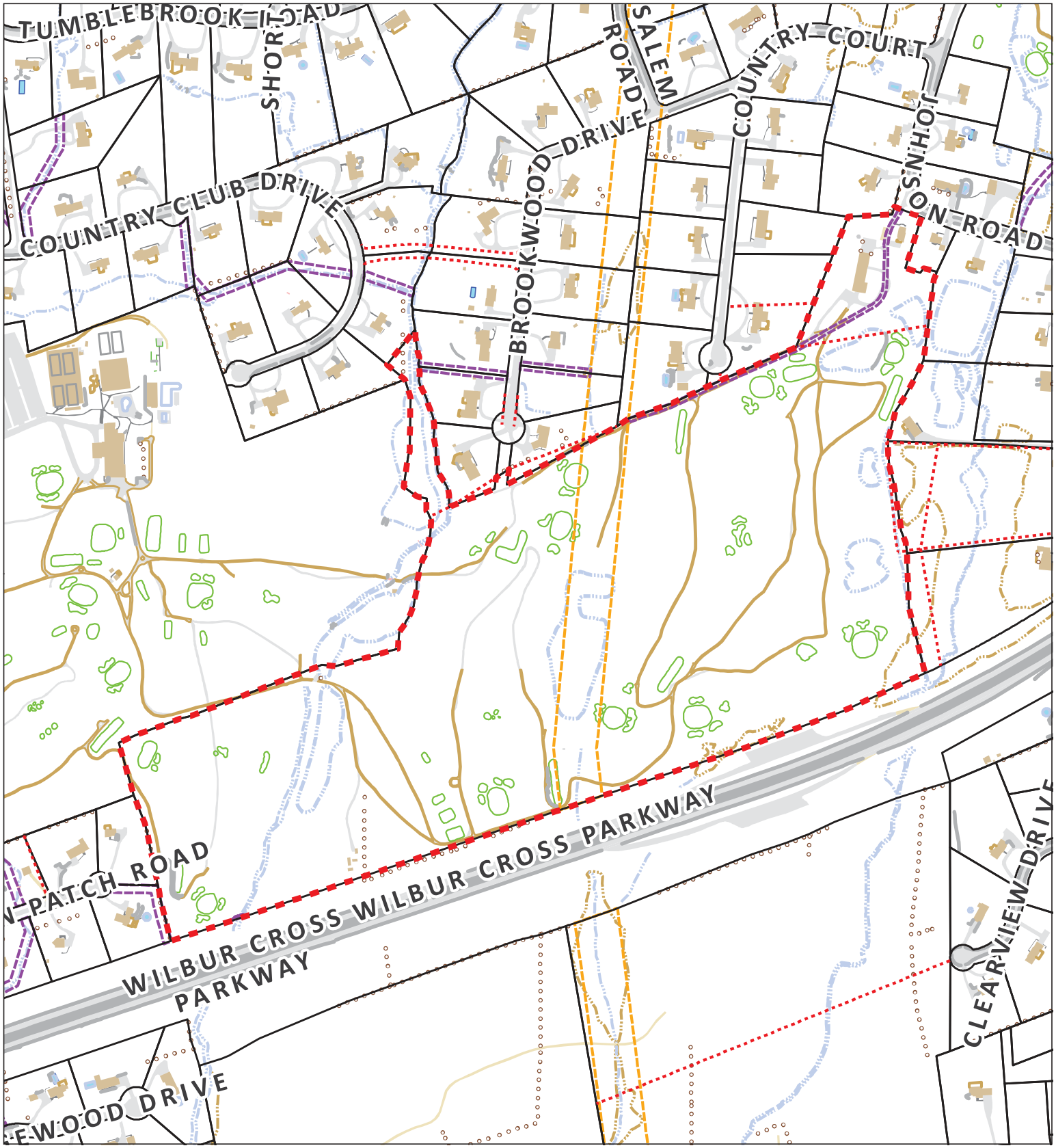
Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Office	880	880
First Floor	5184	5184

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area	6064	6064

Report Created On 7/28/2020

Town of Woodbridge, Connecticut - Assessment Parcel Map

GIS ID: 768 **Address:**



Approximate Scale:

1:6,000

Map Produced July 2019

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 467834
VERIZON SITE NAME: WOODBRIDGE S CT
VERIZON FUZE ID: 16244090
SITE TYPE: MONOPOLE
TOWER HEIGHT: 150'-0"

BUSINESS UNIT #: 876315
SITE ADDRESS: 1027 RACEBROOK RD
WOODBRIDGE, CT 06525
COUNTY: NEW HAVEN
JURISDICTION: TOWN OF WOODBRIDGE

VERIZON MODIFICATION;5G_L-SUB-PREP

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	OAK LANE CC, INC. TOWER
SITE ADDRESS:	1027 RACEBROOK RD WOODBRIDGE, CT 06525
COUNTY:	NEW HAVEN
MAP/PARCEL #:	30030890114
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41° 19' 0.30" (41.316750°)
LONGITUDE:	-73° 0' 41.80"(-73.011611°)
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	283T
CURRENT ZONING:	A
JURISDICTION:	TOWN OF WOODBRIDGE
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	GLOBAL SIGNAL ACQUISITIONS IV LLC 4017 WASHINGTON RD PMB 331 MCMURRY, PA 15317
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS 180 WASHINGTON VALLEY ROAD BEDMINSTER, NJ 07921
ELECTRIC PROVIDER:	CONNECTICUT LIGHT & POWER CO (800) 286-2000
TELCO PROVIDER:	AT&T (800) 331-0500

PROJECT TEAM

A&E FIRM:	TOWER ENGINEERING PROFESSIONALS 326 TRYON ROAD RALEIGH, NC 27603 (919) 661-6351 JOSEPH T. CRESS - PROJECT MANAGER SCOTT C. BRANTLEY - CIVIL ENGINEER
CROWN CASTLE USA INC. DISTRICT CONTACTS:	6325 ARDREY KELL ROAD, SUITE 600 CHARLOTTE, NC 28277 SARA REA LOADHOLDT - A&E SPECIALIST (704) 405-6548

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN
C-2	TOWER ELEVATION & ANTENNA PLANS
C-3	EQUIPMENT SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	COLOR CODE MATRIX
C-7	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

APPROVALS

SIGNATURE	DATE

CONTRACTOR PMI REQUIREMENTS

PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR PROJECT NUMBER	**10117578**
VzW LOCATION CODE (PSLC)	**467834**

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

MOUNT MODIFICATION REQUIRED	**Y**

VzW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VzW SMART KIT APPROVED VENDORS

LOCATION MAP

DRIVING DIRECTIONS FROM VERIZON LOCAL OFFICE (785 QUEEN ST, SOUTHINGTON, CT 06489)
HEAD SOUTH ON CT-10 S TOWARD CHAFFEE LN. TURN RIGHT ONTO THE I-84 W RAMP TO WATERBURY. MERGE WITH I-84. TAKE EXIT 27 FOR I-691 E TOWARD MERIDEN. CONTINUE ONTO I-691 E. TAKE EXIT 10 TO MERGE WITH CT-15 S/WILBUR CROSS PKWY TOWARD I-91 S/NEW HAVEN.

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	B+T GROUP
DATED:	05/14/2021
MOUNT ANALYSIS:	MASER CONSULTING CONNECTICUT
DATED:	12/02/2021
RFDS REVISION:	0
DATED:	02/12/2021
ORDER ID:	552710
REVISION:	2

CALL CONNECTICUT ONE CALL
(800) 922-4455 CBYD.COM
CALL 2 WORKING DAYS BEFORE YOU DIG!

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:
- REMOVE (9) ANTENNAS
- REMOVE (3) RRHs
- REMOVE (1) COAX CABLE
- REMOVE (1) OVP
- INSTALL PLATFORM MOUNT MODIFICATIONS
- INSTALL (9) ANTENNAS
- INSTALL (1) OVP
- INSTALL (6) RRHs
- INSTALL (1) HYBRID CABLE
- INSTALL (3) SIDE-BY-SIDE ANTENNA MOUNTS

NOTE:
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351
TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

STATE OF CONNECTICUT
SCOTT C. BRANTLEY
35538
LICENSED PROFESSIONAL ENGINEER

01/07/21

SHEET NUMBER: T-1
REVISION: 0

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED– NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" – CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT:
THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. 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/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED–STD–10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED–STD–10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: VERIZON
TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER...40 ksi
#5 BARS AND LARGER...60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.......................3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER...2"
#5 BARS AND SMALLER...1–1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS...3/4"
BEAMS AND COLUMNS...1–1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE

SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
	GROUND	GREEN
277/480V, 3Ø	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
	NEUTRAL	GREY
	GROUND	GREEN
DC VOLTAGE	POS (+)	RED**
	NEG (–)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

APWA UNIFORM COLOR CODE:

WHITE	PROPOSED EXCAVATION
PINK	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
YELLOW	GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS
ORANGE	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS
BLUE	POTABLE WATER
PURPLE	RECLAIMED WATER, IRRIGATION, AND SLURRY LINES
GREEN	SEWERS AND DRAIN LINES

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON–METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON–METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD–WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351
TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

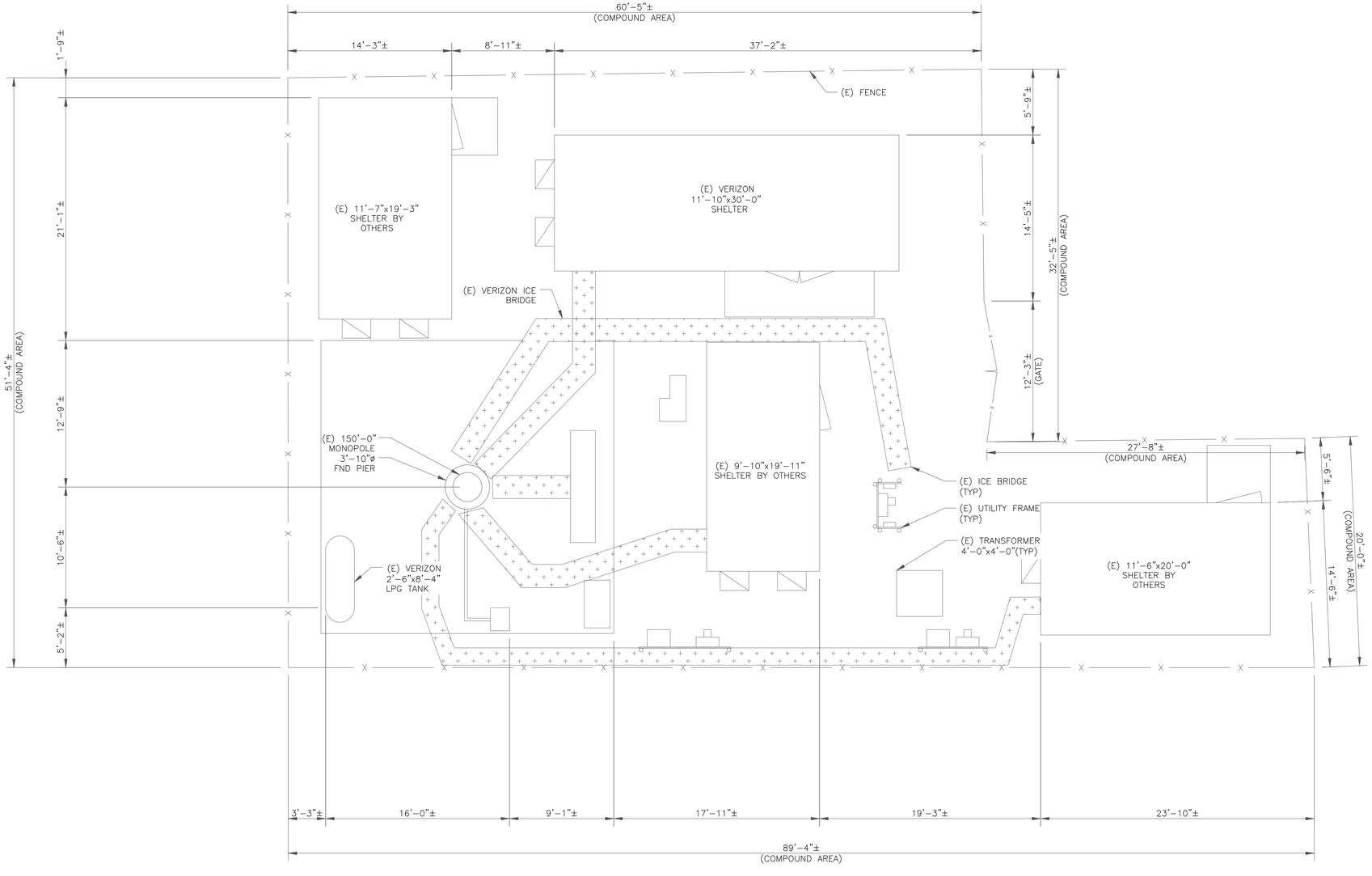
EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

STATE OF CONNECTICUT
SCOTT C. BRANTLEY
25536
LICENSED PROFESSIONAL ENGINEER
01/07/21

SHEET NUMBER:	REVISION:
T-2	0



1 SITE PLAN

SCALE: 2' 1' 0 2'

3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER
ENGINEERING
PROFESSIONALS

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EXISTING 150'-0" MONOPOLE

ISSUED FOR:

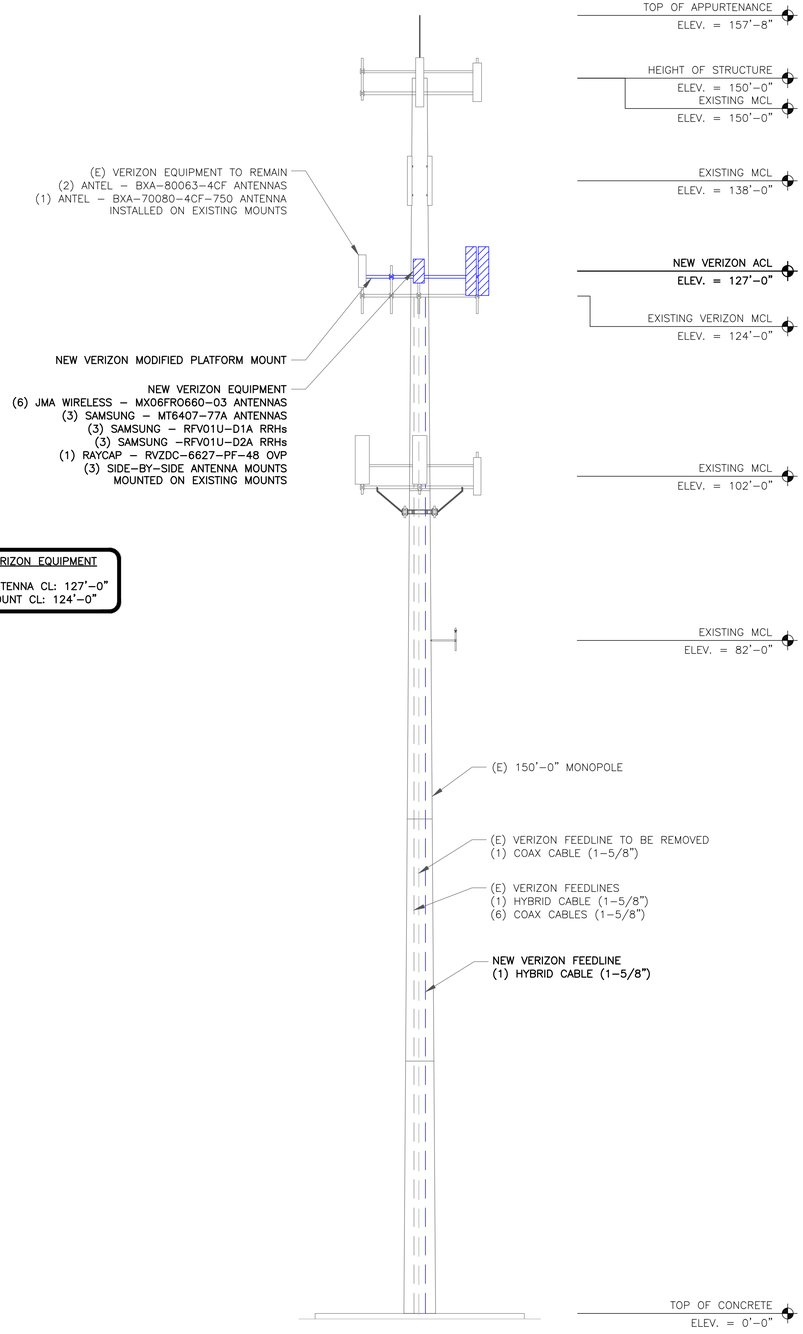
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

STATE OF CONNECTICUT
SCOTT C. BRANTLEY
34624
LICENSED
PROFESSIONAL ENGINEER

01/07/21

SHEET NUMBER: C-1

REVISION: 0



VERIZON EQUIPMENT

ANTENNA CL: 127'-0"
MOUNT CL: 124'-0"

1 TOWER ELEVATION
SCALE: NOT TO SCALE

INSTALLER NOTE:

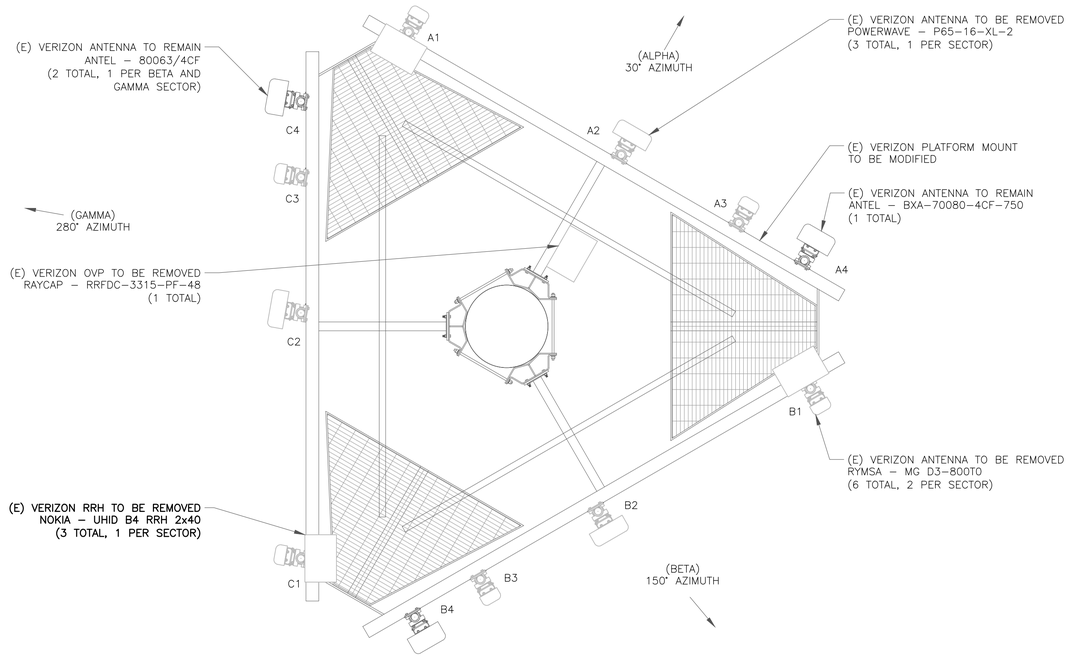
EXISTING AND PROPOSED ANTENNA/ EQUIPMENT POSITIONING SHOWN PER RFDS. FIELD CONDITIONS MAY VARY.

TOWER ANALYSIS NOTES:

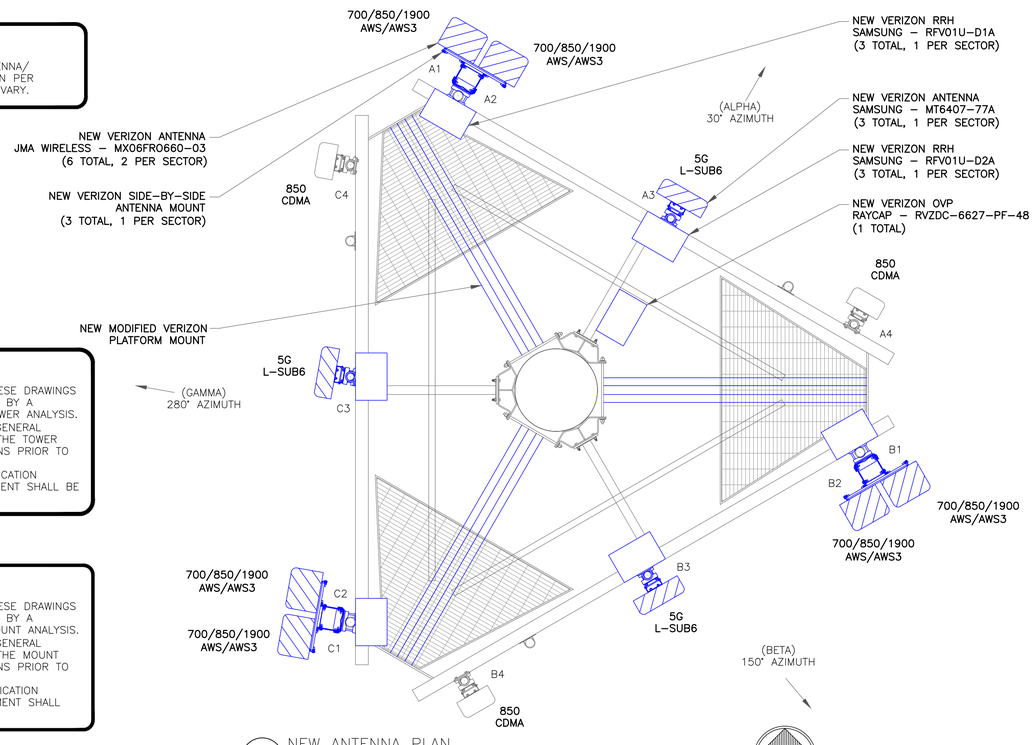
1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING TOWER ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE TOWER ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED TOWER MODIFICATION DESIGN OR TOWER REPLACEMENT SHALL BE APPROVED BY EOR.

MOUNT ANALYSIS NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EOR.



2 EXISTING ANTENNA PLAN
SCALE: NOT TO SCALE



3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
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TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

STATE OF CONNECTICUT
SCOTT C. BRANTLEY
35536
LICENSED
PROFESSIONAL ENGINEER

01/07/21

SHEET NUMBER: C-2

REVISION: 0

ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	NEW	JMA WIRELESS	MX06FRO660-03	127'-0"	30°	*	*	SAMSUNG	(1) RFV01U-D1A RRH
A2	NEW	JMA WIRELESS	MX06FRO660-03	127'-0"	30°	*	*	–	–
A3	NEW	SAMSUNG	MT6407-77A	127'-0"	30°	*	*	SAMSUNG	(1) RFV01U-D2A RRH
A4	EXISTING	ANTEL	BXA-70080-4CF-750	127'-0"	30°	*	*	RAYCAP	(1) RVZDC-6627-PF-48 OVP

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
B1	NEW	JMA WIRELESS	MX06FRO660-03	127'-0"	150°	*	*	SAMSUNG	(1) RFV01U-D1A RRH
B2	NEW	JMA WIRELESS	MX06FRO660-03	127'-0"	150°	*	*	–	–
B3	NEW	SAMSUNG	MT6407-77A	127'-0"	150°	*	*	SAMSUNG	(1) RFV01U-D2A RRH
B4	EXISTING	ANTEL	BXA-80063/4CF	127'-0"	150°	*	*	–	–

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
C1	NEW	JMA WIRELESS	MX06FRO660-03	127'-0"	280°	*	*	SAMSUNG	(1) RFV01U-D1A RRH
C2	NEW	JMA WIRELESS	MX06FRO660-03	127'-0"	280°	*	*	–	–
C3	NEW	SAMSUNG	MT6407-77A	127'-0"	280°	*	*	SAMSUNG	(1) RFV01U-D2A RRH
C4	EXISTING	ANTEL	BXA-80063/4CF	127'-0"	280°	*	*	–	–

NOTE – NEW ANTENNA/EQUIPMENT SHOWN IN BOLD

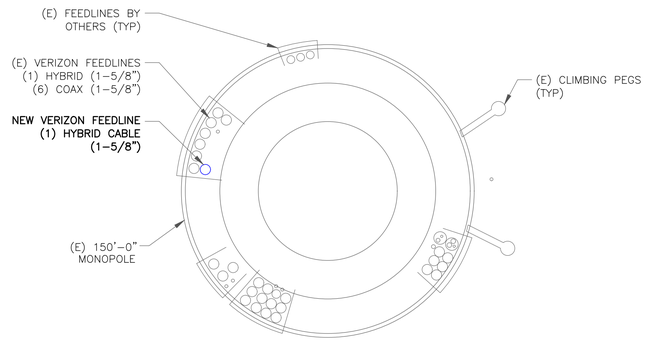
* – CONTRACTOR TO REFERENCE MOST RECENT RFDS FOR MECHANICAL AND ELECTRICAL DOWNTILTS

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	MANUFACTURER (MODEL #)	SIZE	LENGTH	QTY
EXISTING	COAX	ANDREW (LDF7-50A)	1-5/8"	162'-0"±	6
EXISTING	COAX	ANDREW (LDF7-50A)	1-5/8"	162'-0"±	**1
EXISTING	HYBRID	RFS/CELWAVE (HB158-U12S24-XXX-LI)	1-5/8"	162'-0"±	1
NEW	**HYBRID**	**RFS/CELWAVE (HB158-U12S24-XXX-LI)**	**1-5/8"**	**162'-0"±**	**1**
				TOTAL CABLE QTY:	8

** – EXISTING COAX CABLE TO BE REMOVED



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

N

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

EXISTING 150'-0" MONOPOLE

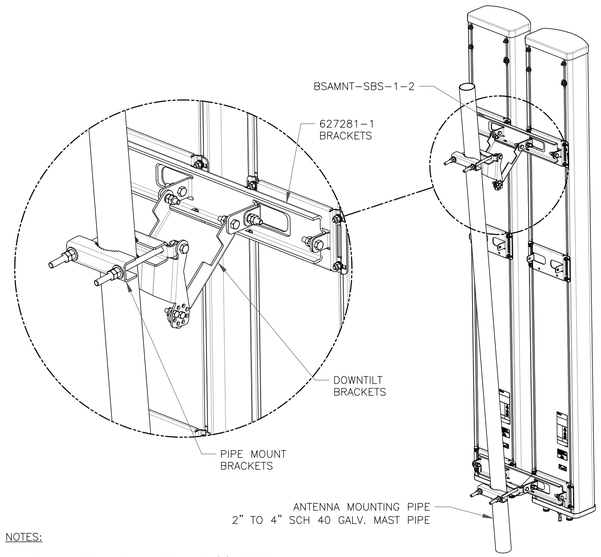
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

01/07/21

SHEET NUMBER: C-3

REVISION: 0

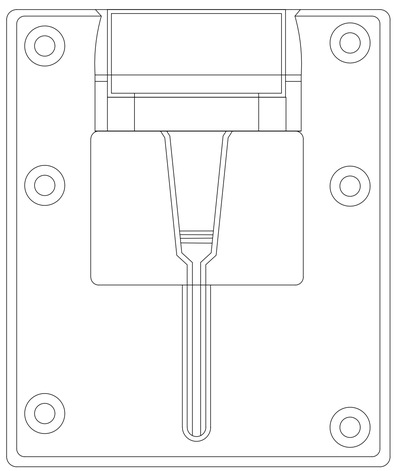


NOTES:

- BSAMNT–SBS–1–2 KIT CONTAINS (2) 627281 MOUNTING BRACKETS.
- TORQUE THE M10 BOLT ASSEMBLY TO 37 N.m. PER MANUFACTURE'S RECOMMENDATIONS.

1 COMMSCOPE – BSAMNT–SBS–1–2
SCALE: NOT TO SCALE

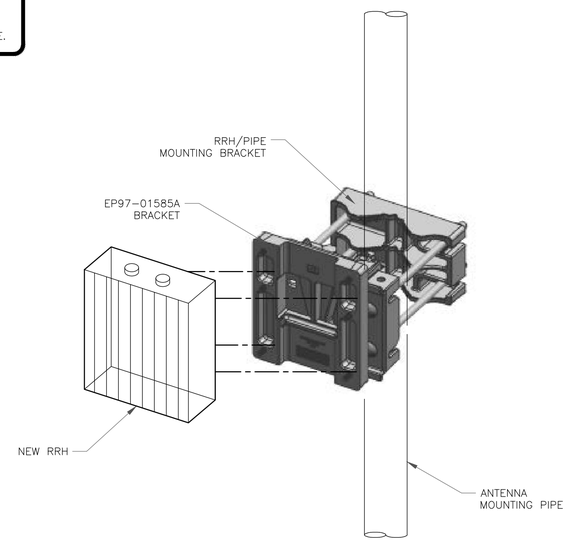
2 NOT USED
SCALE: NOT TO SCALE



3 SAMSUNG – EP97–01585A BRACKET DETAIL
SCALE: NOT TO SCALE

INSTALLER NOTES:

ALL PIPES BRACKETS AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



4 ANTENNA & RRH MOUNTING DETAIL
SCALE: NOT TO SCALE

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MAHWAH, NJ 07430

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326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

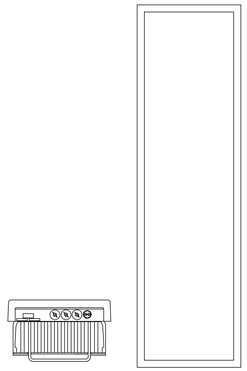
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

STATE OF CONNECTICUT
SCOTT C. BRANTLEY
LICENSED
PROFESSIONAL ENGINEER

01/07/21

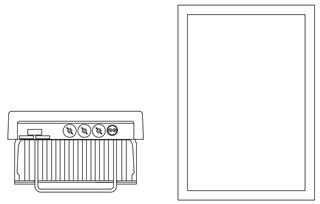
SHEET NUMBER: C-4

REVISION: 0



JMA WIRELESS – MX06FRO660-03 ANTENNA
WEIGHT: 78 LBS
SIZE (HxWxD): 71.3x15.40x10.70 IN.

1 JMA – MX06FRO660-03
SCALE: NOT TO SCALE

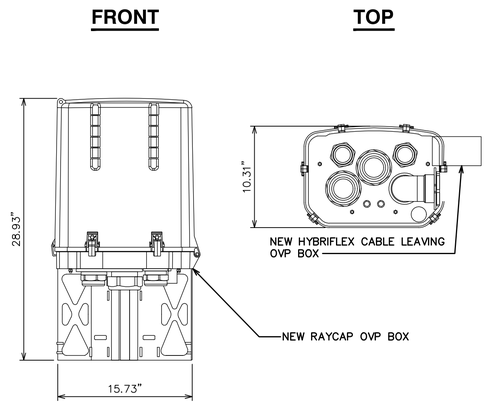


SAMSUNG TELECOMMUNICATIONS – MT6407-77A ANTENNA
WEIGHT: 81.57 LBS
SIZE (HxWxD): 35.06x16.06x5.51 IN.

2 SAMSUNG – MT6407-77A
SCALE: NOT TO SCALE

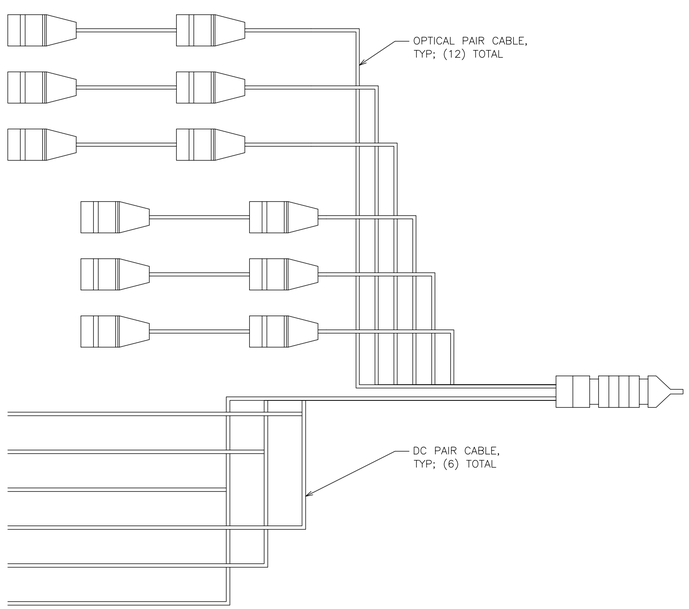
FIBER NAMING CONVENTION	
Technology	(Equipment-Sector-OPTI #)
DUPLEX FIBER RUN	
5GmmW L0	5GmmW-A-0
SIMPLEX FIBER RUN	
CBRS L0	CBRS-A-0
CBRS L1	CBRS-A-1
LAA L0	LAA-A-0
High Band Dual Band L0	HB-A-0
High Band Dual Band L1	HB-A-1
Low Band Dual Band L0	LB-A-0
FDMIMO AWS L0	FDM-AWS-A-0
FDMIMO AWS L1	FDM-AWS-A-1
FDMIMO PCS L0	FDM-PCS-A-0
FDMIMO PCS L1	FDM-PCS-A-1
Rev. 2/23/2021	

3 FIBER NAMING CONVENTION CHART
SCALE: NOT TO SCALE



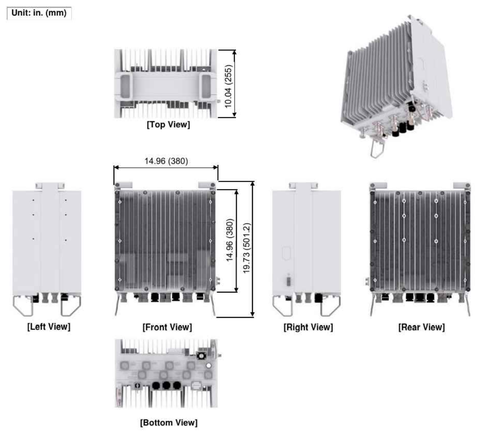
RAYCAP – RVZDC-6627-PF-48
WEIGHT: 32 LBS
SIZE (HxWxD): 28.93X15.73X10.31 IN.

4 RAYCAP – RVZDC-6627-9F-48
SCALE: NOT TO SCALE



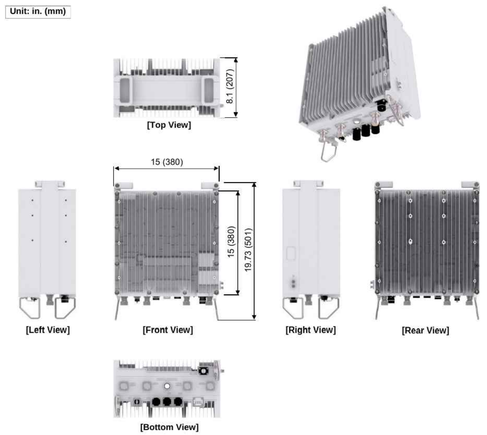
RFS/CELWAVE / HB158-U12S24-XXX-LI
WEIGHT: 1.7 LBS/FT
DIAMETER: 1.99" (±.1")
COAX EQUIVALENT: 1⅝"

5 HCS DETAIL
SCALE: NOT TO SCALE



SAMSUNG – RFV01U-D1A
WEIGHT: 84.40 LBS
SIZE (HxWxD): 15.00x15.00x10.00 IN.

6 SAMSUNG – RFV01U-D1A
SCALE: NOT TO SCALE



SAMSUNG – RFV01U-D2A
WEIGHT: 70.30 LBS
SIZE (HxWxD): 15.00x15.00x8.10 IN.

7 SAMSUNG – RFV01U-D2A
SCALE: NOT TO SCALE

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TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

STATE OF CONNECTICUT
SCOTT C. BRANTLEY
LICENSED
PROFESSIONAL ENGINEER

01/07/21

SHEET NUMBER: C-5

REVISION: 0

Sector - Line #	Sector		700 LTE				850 LTE				AWS				PCS				CBRS				850 CDMA	
Alpha -Line1		White	Red				Pink				Yellow				Light Blue				Dark Purple				Gray	
Alpha -Line2		White	Red	Red			Pink	Pink			Yellow	Yellow			Light Blue	Light Blue			Dark Purple	Dark Purple			Gray	Gray
Alpha -Line3		White	Red	Red	Red		Pink	Pink	Pink		Yellow	Yellow	Yellow		Light Blue	Light Blue	Light Blue		Dark Purple	Dark Purple	Dark Purple		Gray	Gray
Alpha -Line4		White	Red	Red	Red	Red	Pink	Pink	Pink	Pink	Yellow	Yellow	Yellow	Yellow	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple	Dark Purple	Dark Purple	Dark Purple	Gray	Gray
Beta -Line1		Blue	Red				Pink				Yellow				Light Blue				Dark Purple				Gray	
Beta -Line2		Blue	Red	Red			Pink	Pink			Yellow	Yellow			Light Blue	Light Blue			Dark Purple	Dark Purple			Gray	Gray
Beta -Line3		Blue	Red	Red	Red		Pink	Pink	Pink		Yellow	Yellow	Yellow		Light Blue	Light Blue	Light Blue		Dark Purple	Dark Purple	Dark Purple		Gray	Gray
Beta -Line4		Blue	Red	Red	Red	Red	Pink	Pink	Pink	Pink	Yellow	Yellow	Yellow	Yellow	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple	Dark Purple	Dark Purple	Dark Purple	Gray	Gray
Gamma-Line1		Green	Red				Pink				Yellow				Light Blue				Dark Purple				Gray	
Gamma-Line2		Green	Red	Red			Pink	Pink			Yellow	Yellow			Light Blue	Light Blue			Dark Purple	Dark Purple			Gray	Gray
Gamma-Line3		Green	Red	Red	Red		Pink	Pink	Pink		Yellow	Yellow	Yellow		Light Blue	Light Blue	Light Blue		Dark Purple	Dark Purple	Dark Purple		Gray	Gray
Gamma-Line4		Green	Red	Red	Red	Red	Pink	Pink	Pink	Pink	Yellow	Yellow	Yellow	Yellow	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple	Dark Purple	Dark Purple	Dark Purple	Gray	Gray
Delta-Line1	White	White	Red				Pink				Yellow				Light Blue				Dark Purple				Gray	
Delta-Line2	White	White	Red	Red			Pink	Pink			Yellow	Yellow			Light Blue	Light Blue			Dark Purple	Dark Purple			Gray	Gray
Delta-Line3	White	White	Red	Red	Red		Pink	Pink	Pink		Yellow	Yellow	Yellow		Light Blue	Light Blue	Light Blue		Dark Purple	Dark Purple	Dark Purple		Gray	Gray
Delta-Line4	White	White	Red	Red	Red	Red	Pink	Pink	Pink	Pink	Yellow	Yellow	Yellow	Yellow	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple	Dark Purple	Dark Purple	Dark Purple	Gray	Gray
Epsilon-Line1	Blue	Blue	Red				Pink				Yellow				Light Blue				Dark Purple				Gray	
Epsilon-Line2	Blue	Blue	Red	Red			Pink	Pink			Yellow	Yellow			Light Blue	Light Blue			Dark Purple	Dark Purple			Gray	Gray
Epsilon-Line3	Blue	Blue	Red	Red	Red		Pink	Pink	Pink		Yellow	Yellow	Yellow		Light Blue	Light Blue	Light Blue		Dark Purple	Dark Purple	Dark Purple		Gray	Gray
Epsilon-Line4	Blue	Blue	Red	Red	Red	Red	Pink	Pink	Pink	Pink	Yellow	Yellow	Yellow	Yellow	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple	Dark Purple	Dark Purple	Dark Purple	Gray	Gray
Zeta-Line1	Green	Green	Red				Pink				Yellow				Light Blue				Dark Purple				Gray	
Zeta-Line2	Green	Green	Red	Red			Pink	Pink			Yellow	Yellow			Light Blue	Light Blue			Dark Purple	Dark Purple			Gray	Gray
Zeta-Line3	Green	Green	Red	Red	Red		Pink	Pink	Pink		Yellow	Yellow	Yellow		Light Blue	Light Blue	Light Blue		Dark Purple	Dark Purple	Dark Purple		Gray	Gray
Zeta-Line4	Green	Green	Red	Red	Red	Red	Pink	Pink	Pink	Pink	Yellow	Yellow	Yellow	Yellow	Light Blue	Light Blue	Light Blue	Light Blue	Dark Purple	Dark Purple	Dark Purple	Dark Purple	Gray	Gray
GPS-Line1	Brown																							
GPS-Line2	Brown	Brown																						
GPS-Line3	Brown	Brown	Brown																					
GPS-Line4	Brown	Brown	Brown	Brown																				

1 COLOR CODE MATRIX
SCALE: NOT TO SCALE

verizon
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1200 MACARTHUR BLVD, SUITE 200
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326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351
TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

EXISTING 150'-0" MONOPOLE

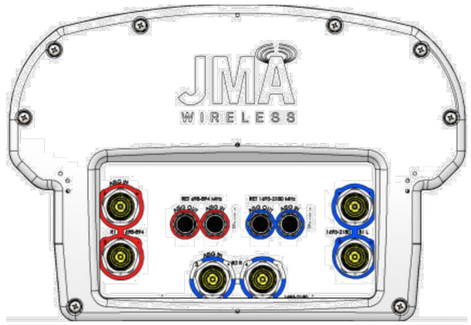
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

01/07/21

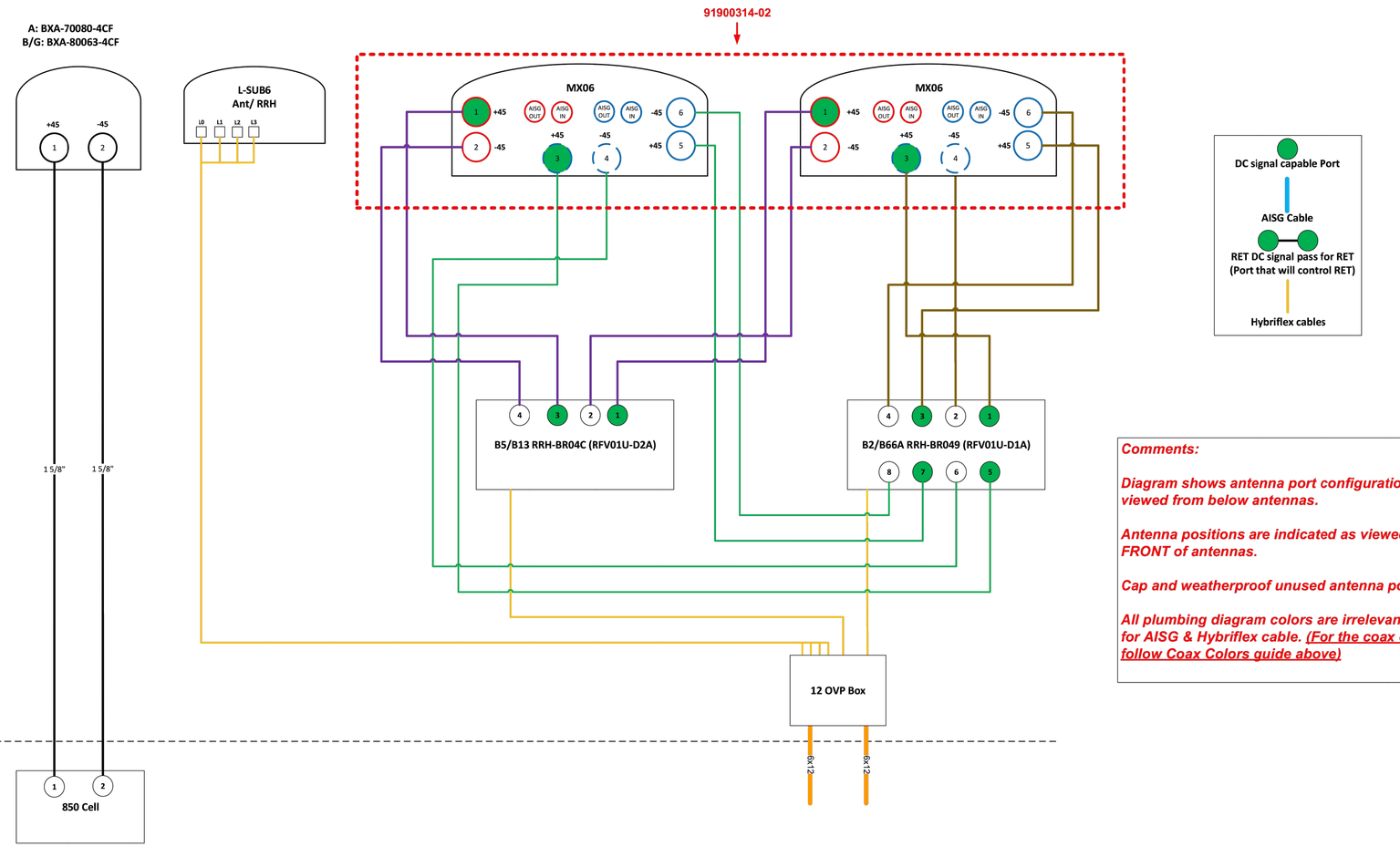
SHEET NUMBER: C-6

REVISION: 0



- **Port 1 & 2 are for low band (698-896 MHz).**
- **Port 3,4,5, & 6 are for high band (1695-2360 MHz).**
- **Smart Bias Tee (SBT) is through port 1 & 3 for low band and port 1 for high band.**
- **AISG cable is only needed when drawn in the diagrams below, if it is not drawn then SBT is enough to control all RET motors.**
- **Not all SBT ports are needed to control RET, only green port connection to green port will control RET.**

RET DC signal pass for RET
(Port that will control RET)



DC signal capable Port

AISG Cable

RET DC signal pass for RET
(Port that will control RET)

Hybriflex cables

Comments:

Diagram shows antenna port configuration as viewed from below antennas.

Antenna positions are indicated as viewed from IN FRONT of antennas.

Cap and weatherproof unused antenna ports.

All plumbing diagram colors are irrelevant except for AISG & Hybriflex cable. (For the coax colors follow Coax Colors guide above)

1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
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TEP JOB #: 25587.633561

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OAK LANE CC, INC. TOWER

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EXISTING 150'-0" MONOPOLE

ISSUED FOR:

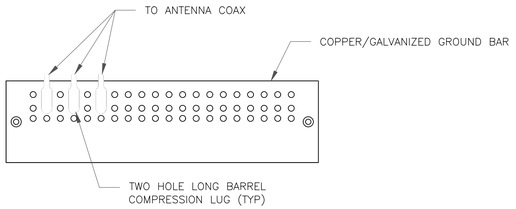
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

STATE OF CONNECTICUT
SCOTT C. BRANTLEY
35566
LICENSED PROFESSIONAL ENGINEER

01/07/21

SHEET NUMBER: C-7

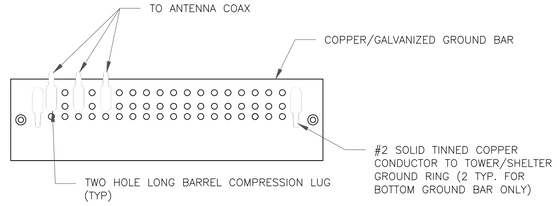
REVISION: 0



NOTES:

1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

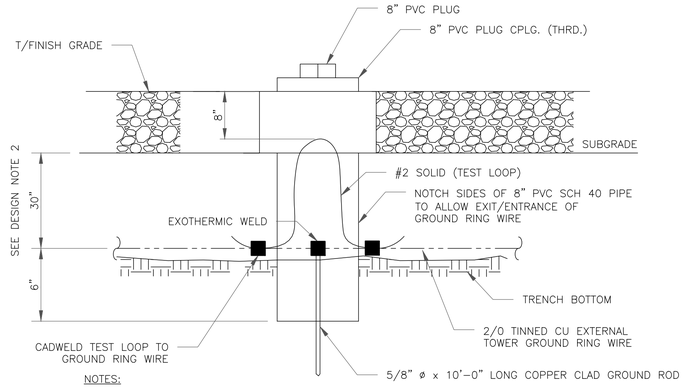
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

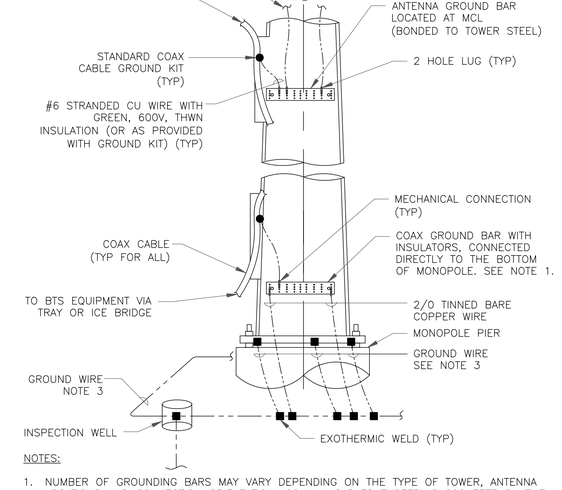
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

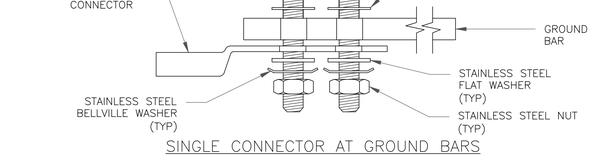
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



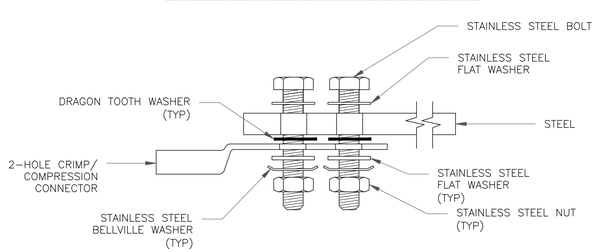
NOTES:

1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

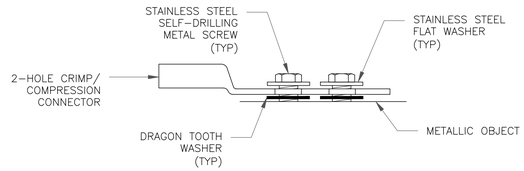
4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

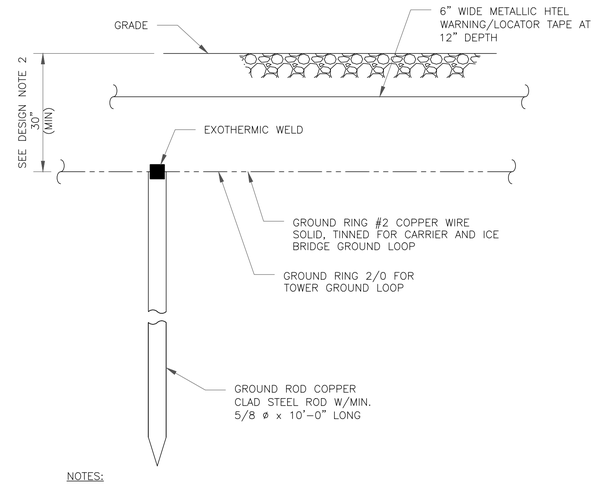


SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
2. GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

EXISTING 150'-0" MONOPOLE

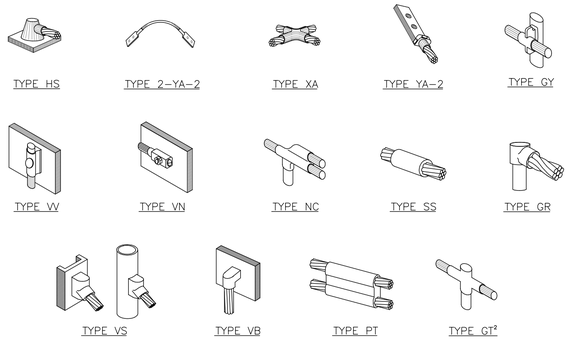
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

01/07/21

SHEET NUMBER: G-1

REVISION: 0

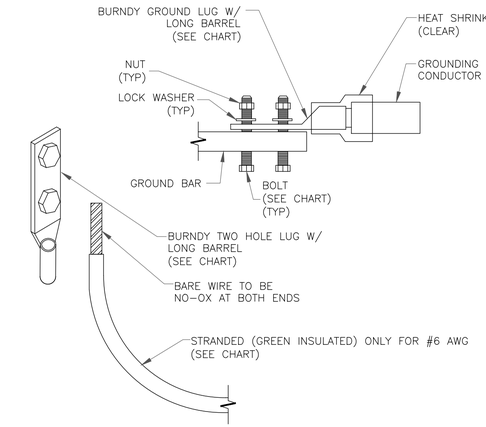


NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE

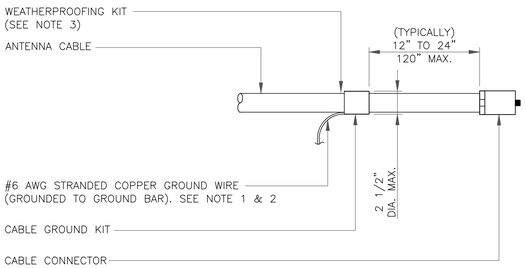
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER,GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

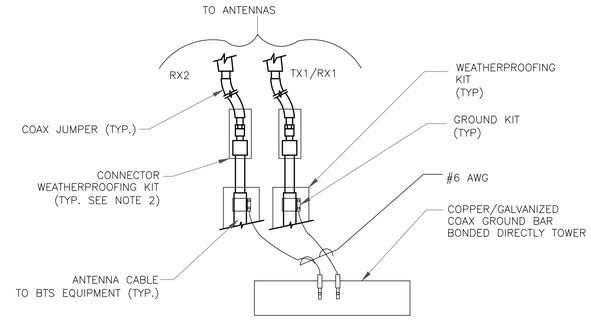
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

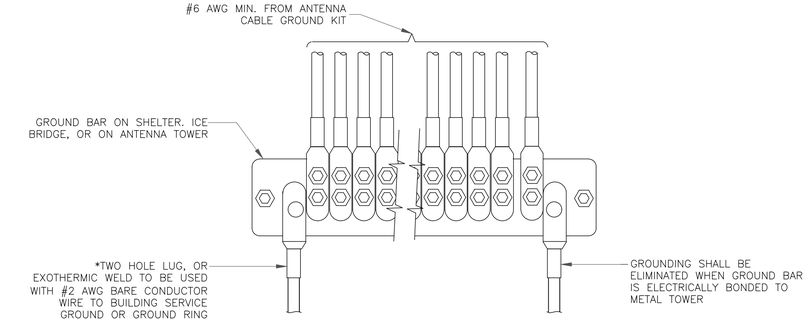
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



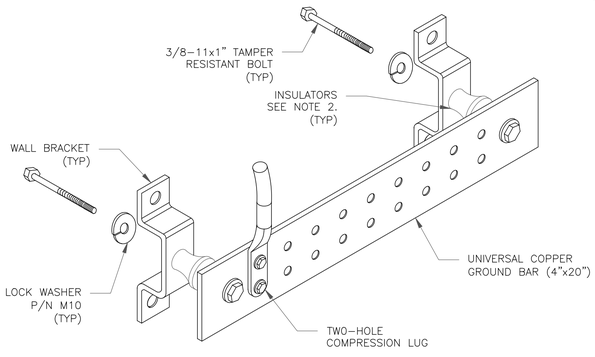
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



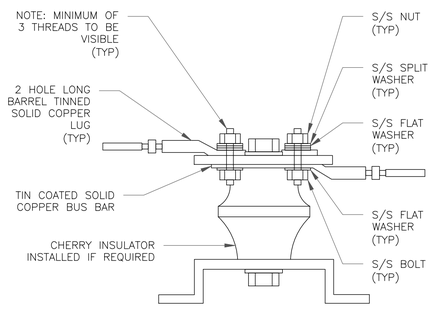
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



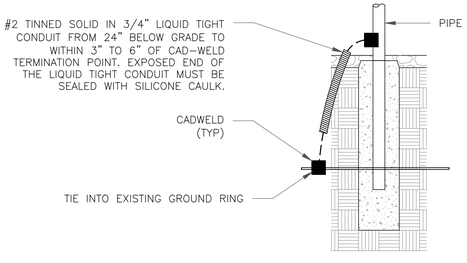
NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
1200 MACARTHUR BLVD, SUITE 200
MAHWAH, NJ 07430

TOWER ENGINEERING PROFESSIONALS
326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351
TEP JOB #: 25587.633561

VERIZON SITE NUMBER:
467834

BU #: **876315**
OAK LANE CC, INC. TOWER

1027 RACEBROOK RD
WOODBRIDGE, CT 06525

EXISTING 150'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/07/21	ORG	CONSTRUCTION	RST

01/07/21

SHEET NUMBER: G-2

REVISION: 0

Exhibit D

Structural Analysis Report

Date: **May 14, 2021**

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	467834
	Site Name:	Woodbridge S Ct
Crown Castle Designation:	**BU Number:**	876315
	Site Name:	Oak Lane Cc, Inc. Tower (Ssusa
	JDE Job Number:	644627
	Work Order Number:	1957968
	Order Number:	552710 Rev. 0
Engineering Firm Designation:	**B+T Group Project Number:**	81150.009.01
Site Data:	**1027 Racebrook Road, Woodbridge, New Haven County, CT**	
	Latitude *41° 19' 0.3"*, Longitude *-73° 0' 41.8"*	
	150 Foot - Monopole	

B+T Group is pleased to submit this **"Structural Analysis Report"** to determine the structural integrity of the above-mentioned tower.

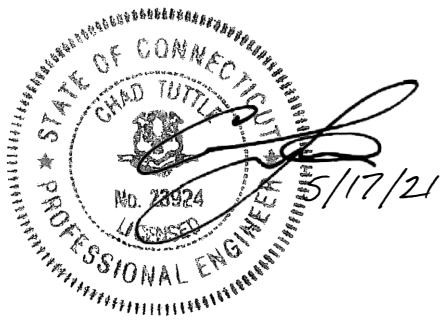
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Structural analysis prepared by: John Landon

Respectfully submitted by: B+T Engineering, Inc.
COA: PEC.0001564; Expires: 02/10/2022



Chad E. Tuttle, P.E.

tnxTower Report - version 8.0.9.0

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 150 ft Monopole designed by Summit.

This tower has been modified multiple times to accommodate additional loading.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
124.0	127.0	1	Gps	GPS_A	7 1	1-5/8 1/2
		6	Jma Wireless	MX06FRO660-03		
		1	Raycap	RVZDC-6627-PF-48		
		3	Samsung Telecomm.	RFV01U-D1A		
		3	Samsung Telecomm.	RFV01U-D2A		
		3	Vzw	Sub6 Antenna - VZS01		
	126.0	1	Antel	BXA-70080/4CF		
		2	Antel	BXA-80063/4CF		
	124.0	1	--	Platform Mount [LP 1201-1]		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
150.0	160.0	1	Dbspectra	DS4C06F36D-D	3 1	1-1/4 7/8
	150.0	3	Alcatel Lucent	1900MHZ RRH (65MHZ)		
		3	Alcatel Lucent	800 EXTERNAL NOTCH FILTER		
		3	Alcatel Lucent	800MHZ RRH		
		9	Rfs Celwave	ACU-A20-N		
		3	Rfs Celwave	APXVSPP18-C-A20		
		3	Rfs Celwave	APXVTM14-C-120		
		1	--	Platform Mount [LP 1201-1]		
	148.0	3	Alcatel Lucent	TD-RRH8X20-25		
138.0	138.0	4	Ericsson	AIR 32 B2A/B66AA	11 2 1	1-5/8 1/2 1-3/8
		4	Ericsson	ERICSSON AIR 21 B2A B4P		
		4	Ericsson	RADIO 4449 B12/B71		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		1	Gps	GPS_A		
		4	Rfs Celwave	APXVAA24_43-U-A20		
		4	Rfs Celwave	ATMA4P4DBP-1A20		
		1	Rfs Celwave	SC2-W100AC		
		1	--	Platform Mount [LP 701-1]		
126.0	129.0	1	Rfs Celwave	TMA-DB-T1-6Z-8AB-0Z	1	1-5/8
102.0	104.0	3	CCI Antennas	DMP65R-BU6D	6 2 2 2	1-5/8 3/4 5/8 3/8
		3	CCI Antennas	OPA65R-BU6D		
		3	Ericsson	RRUS 4449 B5/B12		
		3	Ericsson	RRUS 8843 B2/B66A		
		3	Powerwave Tech.	7770.00		
		3	Powerwave Tech.	LGP12104		
		2	Raycap	DC6-48-60-18-8F		
	102.0	3	Site Pro 1	PRK-SFS-L Stabilizer Kit		
		3	Site Pro 1	HRK14-HD Handrail Kit		
		1	--	Platform Mount [LP 1201-1]		
82.0	83.0	1	Lucent	KS24019-L112A	1	1/2
	82.0	1	--	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3- Documents Provided

Document	Reference	Source
Tower Manufacturing Drawings	2134236	CCI Sites
Mount Reinforcement Report	9121020	CCI Sites
Tower Modification Drawings	2134235	CCI Sites
Tower Modification Drawings	2414123	CCI Sites
Post Modification Inspection	2414121	CCI Sites
Tower Modification Drawings	3313096	CCI Sites
Post Modification Inspection	4137621	CCI Sites
Foundation Drawings	2112237	CCI Sites
Geotech Report	2134233	CCI Sites
Crown CAD Package	Date: 04/21/2021	CCI Sites

3.1) Analysis Method

tnxTower (version 8.0.9.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

3.2) Assumptions

1) The tower and structures were maintained in accordance with the - TIA-222 standard.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. B+T Group should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	150 - 145	Pole	TP22.875x22x0.25	1	-4.385	--	4.3	Pass
L2	145 - 140	Pole	TP23.75x22.875x0.25	2	-4.740	--	7.8	Pass
L3	140 - 135	Pole	TP24.625x23.75x0.25	3	-10.517	--	14.6	Pass
L4	135 - 130	Pole	TP25.501x24.625x0.25	4	-10.961	--	22.1	Pass
L5	130 - 125	Pole	TP26.376x25.501x0.25	5	-11.492	--	29.1	Pass
L6	125 - 120	Pole	TP27.251x26.376x0.25	6	-16.046	--	38.9	Pass
L7	120 - 115	Pole	TP28.126x27.251x0.25	7	-16.643	--	47.3	Pass
L8	115 - 110	Pole	TP29.001x28.126x0.25	8	-17.268	--	55.1	Pass
L9	110 - 102.5	Pole	TP30.314x29.001x0.25	9	-17.752	--	60.6	Pass
L10	102.5 - 101.25	Pole	TP30.033x29.158x0.313	10	-23.037	--	48.9	Pass
L11	101.25 - 96.25	Pole	TP30.908x30.033x0.313	11	-23.931	--	54.9	Pass
L12	96.25 - 91.25	Pole	TP31.783x30.908x0.313	12	-24.853	--	60.5	Pass
L13	91.25 - 86.25	Pole	TP32.658x31.783x0.313	13	-25.804	--	65.7	Pass
L14	86.25 - 81.25	Pole	TP33.534x32.658x0.313	14	-26.865	--	70.7	Pass
L15	81.25 - 76.25	Pole	TP34.409x33.534x0.313	15	-27.875	--	75.3	Pass
L16	76.25 - 73.5	Pole	TP34.89x34.409x0.313	16	-28.436	--	77.7	Pass
L17	73.5 - 73.25	Pole	TP34.934x34.89x0.4	17	-28.513	--	70.5	Pass
L18	73.25 - 68.25	Pole	TP35.809x34.934x0.4	18	-29.705	--	73.9	Pass
L19	68.25 - 62	Pole	TP36.903x35.809x0.4	19	-30.064	--	74.9	Pass
L20	62 - 61	Pole	TP36.453x35.447x0.375	20	-32.258	--	70.3	Pass
L21	61 - 56.25	Pole	TP37.284x36.453x0.375	21	-33.423	--	72.9	Pass
L22	56.25 - 56	Pole	TP37.328x37.284x0.456	22	-33.508	--	72.5	Pass
L23	56 - 51	Pole	TP38.203x37.328x0.456	23	-34.912	--	74.8	Pass
L24	51 - 46	Pole	TP39.078x38.203x0.45	24	-36.354	--	76.9	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L25	46 - 41	Pole	TP39.954x39.078x0.45	25	-37.822	--	78.8	Pass
L26	41 - 39.5	Pole	TP40.216x39.954x0.45	26	-38.261	--	79.3	Pass
L27	39.5 - 39.25	Pole	TP40.26x40.216x0.488	27	-38.359	--	76.4	Pass
L28	39.25 - 38.75	Pole	TP40.347x40.26x0.488	28	-38.521	--	76.6	Pass
L29	38.75 - 38.5	Pole	TP40.391x40.347x0.475	29	-38.602	--	75.9	Pass
L30	38.5 - 32.25	Pole	TP41.485x40.391x0.475	30	-38.903	--	76.2	Pass
L31	32.25 - 31.25	Pole	TP40.91x39.816x0.538	31	-42.285	--	71.8	Pass
L32	31.25 - 26.25	Pole	TP41.785x40.91x0.538	32	-44.020	--	73.1	Pass
L33	26.25 - 21.25	Pole	TP42.66x41.785x0.538	33	-45.784	--	74.3	Pass
L34	21.25 - 16.25	Pole	TP43.536x42.66x0.531	34	-47.576	--	75.4	Pass
L35	16.25 - 11.25	Pole	TP44.411x43.536x0.525	35	-49.397	--	76.4	Pass
L36	11.25 - 10	Pole	TP44.63x44.411x0.525	36	-49.854	--	76.6	Pass
L37	10 - 9.75	Pole	TP44.673x44.63x0.463	37	-49.955	--	76.1	Pass
L38	9.75 - 7.25	Pole	TP45.111x44.673x0.463	38	-50.834	--	76.8	Pass
L39	7.25 - 7	Pole	TP45.155x45.111x0.506	39	-50.937	--	77.5	Pass
L40	7 - 2	Pole	TP46.03x45.155x0.5	40	-52.724	--	78.3	Pass
L41	2 - 0	Pole	TP46.38x46.03x0.5	41	-53.450	--	78.6	Pass
							Summary	
						Pole (L16)	77.7	Pass
						Reinforcement	79.3	Pass
						Rating =	79.3	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation	% Capacity	Pass / Fail
1,2	Anchor Rods	Base	58.9	Pass
1,2	Base Plate	Base	45.4	Pass
1,2	Base Foundation (Structure)	Base	19.6	Pass
1,2	Base Foundation (Soil Interaction)	Base	72.5	Pass

Structure Rating (max from all components) =	79.3%

Notes:
1) See additional documentation in “Appendix C – Additional Calculations” for calculations supporting the % capacity consumed.
2) Rating per TIA-222-H Section 15.5.

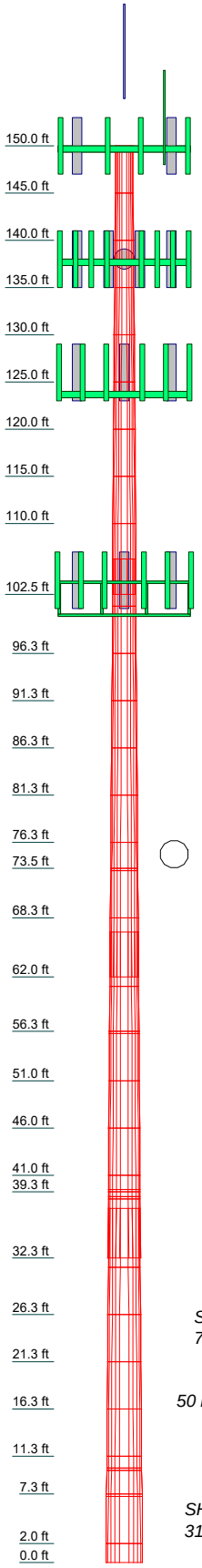
4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

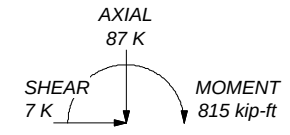
APPENDIX A

TNXTOWER OUTPUT

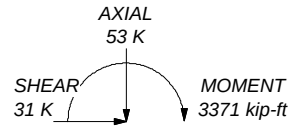
Section		Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (K)
1		5.000	12	0.250		22.000	22.875	A607-60	0.3
2		5.000	12	0.250		22.875	23.750		0.3
3		5.000	12	0.250		23.750	24.625		0.3
4		5.000	12	0.250		24.625	25.501		0.3
5		5.000	12	0.250		25.501	26.376		0.4
6		5.000	12	0.250		26.376	27.251		0.4
7		5.000	12	0.250		27.251	28.126		0.4
8		5.000	12	0.250		28.126	29.001		0.4
9		5.000	12	0.250	3.750	29.001	29.939		0.6
10		5.000	12	0.313		29.939	30.939		0.5
11		5.000	12	0.313		30.939	31.783		0.5
12		5.000	12	0.313		31.783	32.658		0.5
13		5.000	12	0.313		32.658	33.534		0.6
14		5.000	12	0.313		33.534	34.409		0.6
15		5.000	12	0.313		34.409	35.284		0.6
16		5.000	12	0.313		35.284	36.159		0.6
17		5.000	12	0.313		36.159	37.034		0.6
18		5.000	12	0.400		37.034	37.909		0.8
19		5.000	12	0.400	4.750	37.909	38.784		0.8
20		5.000	12	0.400		38.784	39.659		0.8
21		5.000	12	0.400		39.659	40.534		0.8
22		5.000	12	0.400		40.534	41.409		0.8
23		5.000	12	0.450		41.409	42.284		0.9
24		5.000	12	0.450		42.284	43.159		0.9
25		5.000	12	0.450		43.159	44.034		1.0
26		5.000	12	0.450		44.034	44.909		1.0
27		5.000	12	0.450		44.909	45.784		1.0
28		5.000	12	0.450		45.784	46.659		1.0
29		5.000	12	0.450		46.659	47.534		1.0
30		5.000	12	0.475		47.534	48.409		1.3
31		5.000	12	0.537	5.250	48.409	49.284	A607-65	1.4
32		5.000	12	0.537		49.284	50.159		1.2
33		5.000	12	0.537		50.159	51.034		1.2
34		5.000	12	0.531		51.034	51.909		1.2
35		5.000	12	0.525		51.909	52.784		1.2
36		5.000	12	0.525		52.784	53.659		1.3
37		5.000	12	0.525		53.659	54.534		1.3
38		5.000	12	0.525		54.534	55.409		1.3
39		5.000	12	0.525		55.409	56.284		1.3
40		5.000	12	0.500		56.284	57.159		1.2
41		2.000	12	0.500		57.159	58.034		0.5



ALL REACTIONS ARE FACTORED



TORQUE 1 kip-ft
50 mph WIND - 1.500 in ICE



TORQUE 3 kip-ft
REACTIONS - 125 mph WIND

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A607-60	60 ksi	75 ksi	A607-65	65 ksi	80 ksi

TOWER DESIGN NOTES

1. Tower is located in New Haven County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TIA-222-H Annex S
9. TOWER RATING:79.3%

B+T Group
1717 S. Boulder, Suite 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job:	***81150.009.01 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 87631***		
Project:			
Client: Crown Castle		Drawn by: Jayaraj B	App'd:
Code: TIA-222-H		Date: 05/13/21	Scale: NTS
Path:			Dwg No. E-1

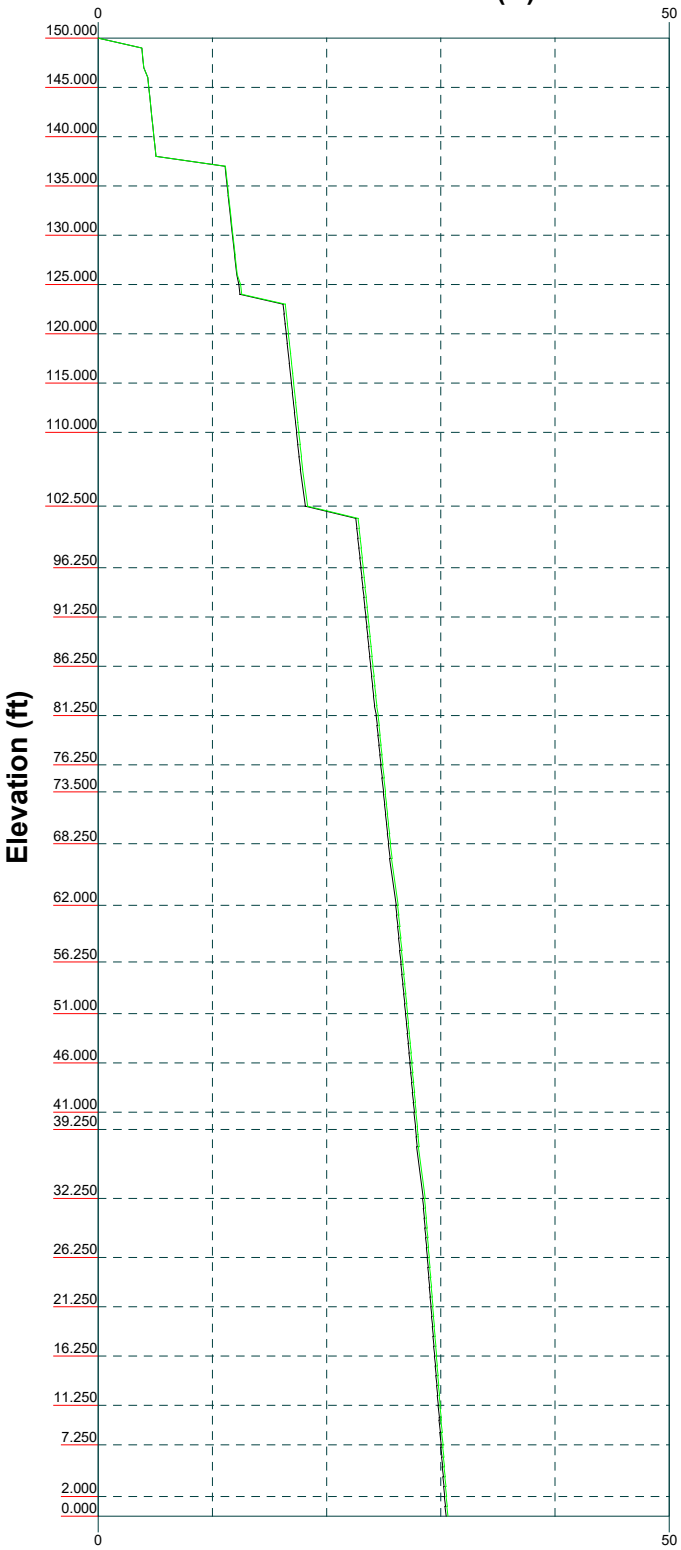
TIA-222-H - 125 mph/50 mph 1.500 in Ice Exposure B

Vx Vz

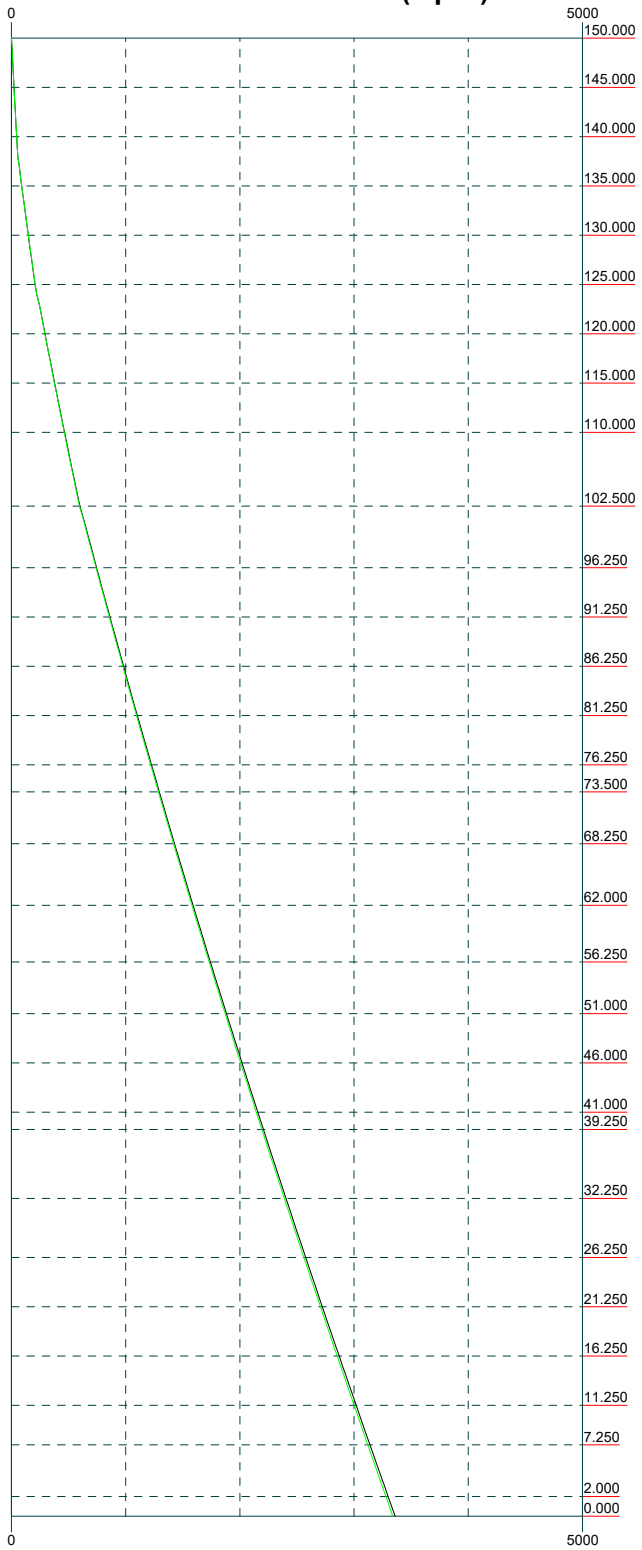
Maximum Values

Mx Mz

Global Mast Shear (K)



Global Mast Moment (kip-ft)



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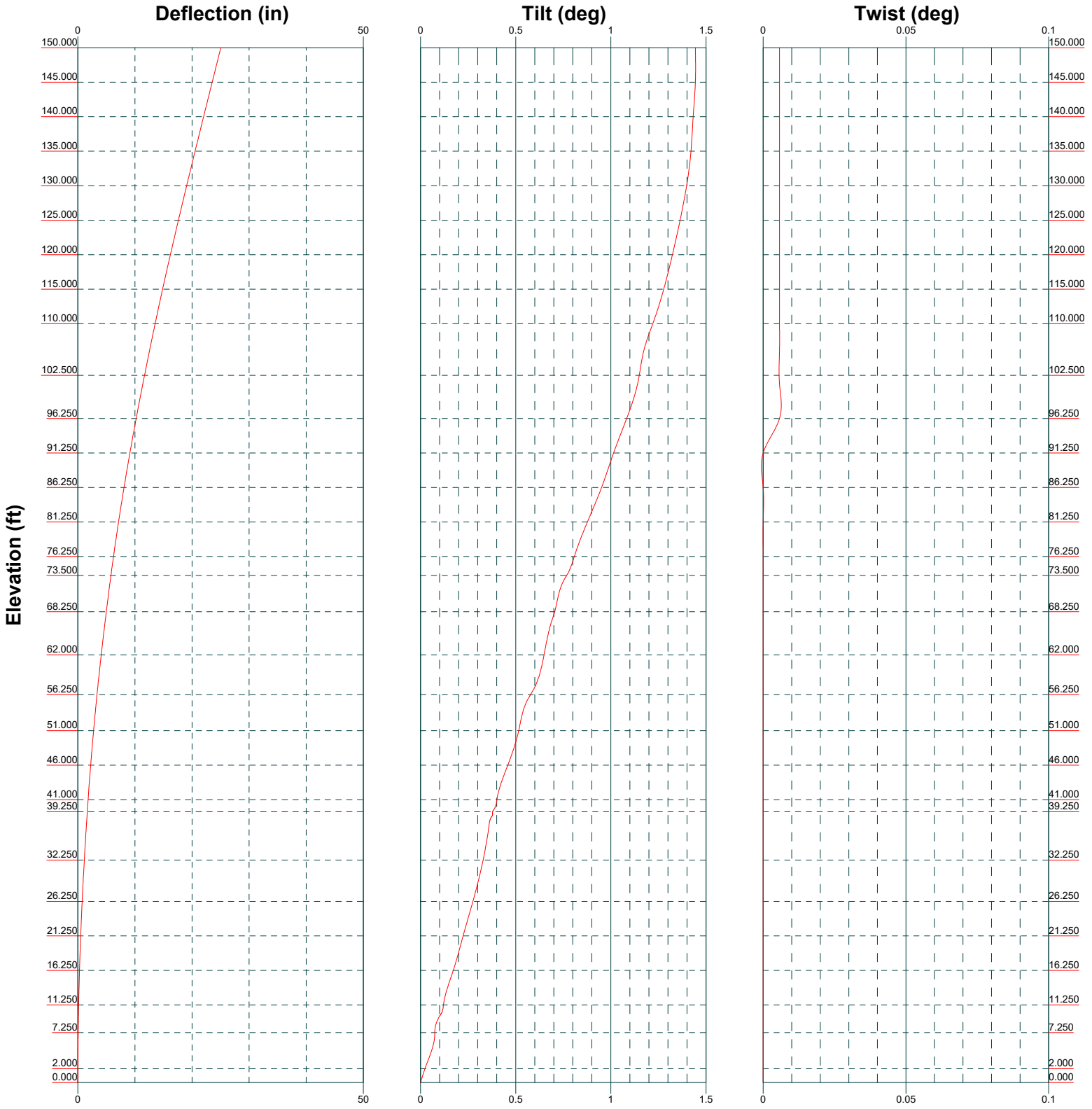
Job: 81150.009.01 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 87631			
Project:			
Client: Crown Castle	Drawn by: Jayaraj B	App'd:	
Code: TIA-222-H	Date: 05/13/21	Scale: NTS	
Path:		Dwg No. E-4	

TIA-222-H - Service - 60 mph

Maximum Values



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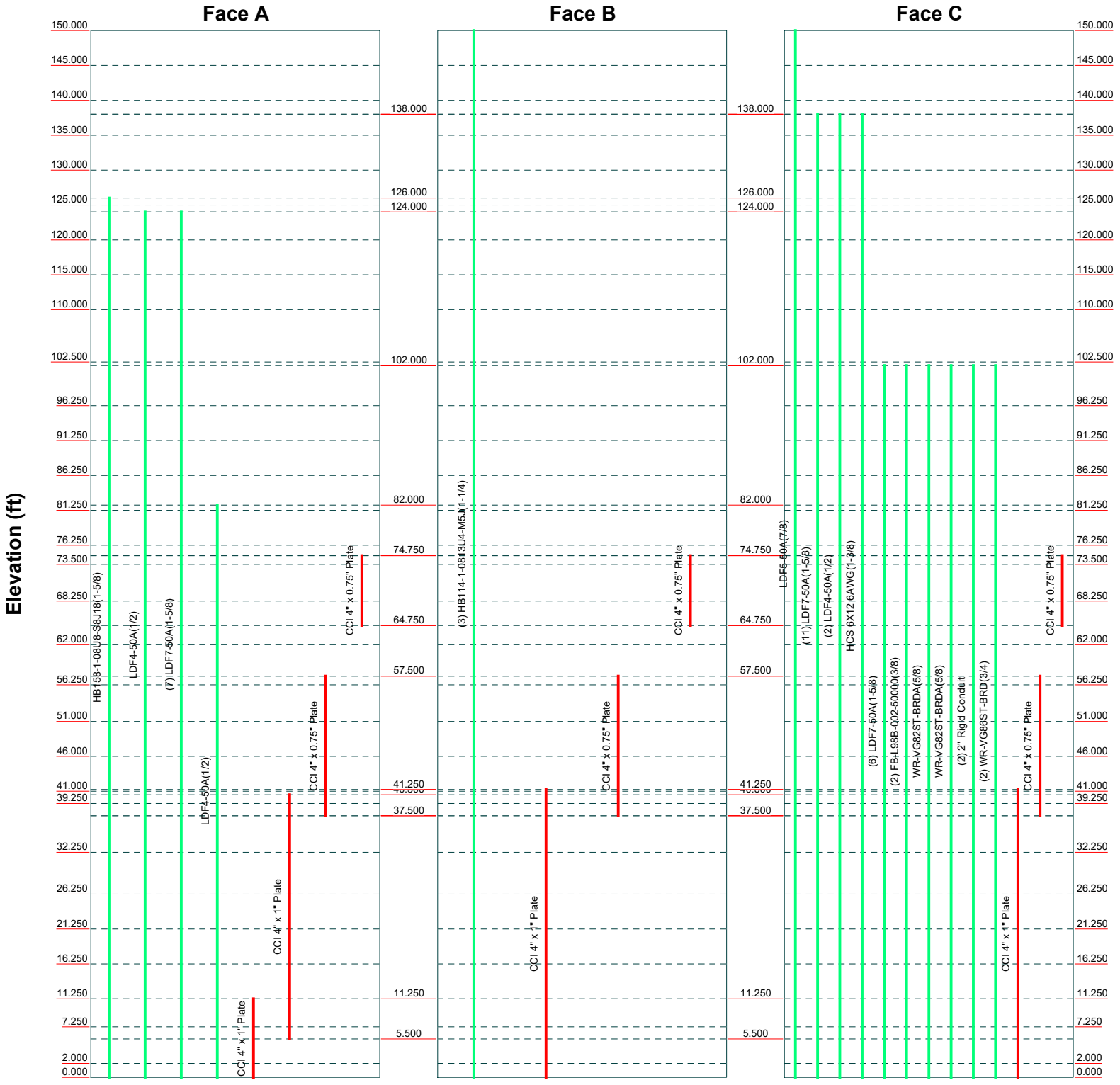
Job: *81150.009.01 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 87631*			
Project:			
Client: Crown Castle	Drawn by: Jayaraj B	App'd:	
Code: TIA-222-H	Date: 05/13/21	Scale: NTS	
Path:		Dwg No. E-5	

Feed Line Distribution Chart
0' - 150'

Round | Flat | App In Face | App Out Face | Truss Leg



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Job: 81150.009.01 - OAK LANE CC, INC. TOWER (SSUSA, CT (BU# 87631			
Project:			
Client: Crown Castle	Drawn by: Jayaraj B	App'd:	
Code: TIA-222-H	Date: 05/13/21	Scale: NTS	
Path:		Dwg No. E-7	

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in New Haven County, Connecticut.
Tower base elevation above sea level: 238.000 ft.
Basic wind speed of 125 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
TIA-222-H Annex S.
TOWER RATING:79.3%.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.000-145.000	5.000	0.000	12	22.000	22.875	0.250	1.000	A607-60 (60 ksi)
L2	145.000-140.000	5.000	0.000	12	22.875	23.750	0.250	1.000	A607-60 (60 ksi)
L3	140.000-135.000	5.000	0.000	12	23.750	24.625	0.250	1.000	A607-60 (60 ksi)
L4	135.000-130.000	5.000	0.000	12	24.625	25.501	0.250	1.000	A607-60 (60 ksi)
L5	130.000-125.000	5.000	0.000	12	25.501	26.376	0.250	1.000	A607-60 (60 ksi)
L6	125.000-120.000	5.000	0.000	12	26.376	27.251	0.250	1.000	A607-60 (60 ksi)
L7	120.000-115.000	5.000	0.000	12	27.251	28.126	0.250	1.000	A607-60 (60 ksi)
L8	115.000-110.000	5.000	0.000	12	28.126	29.001	0.250	1.000	A607-60 (60 ksi)
L9	110.000-102.500	7.500	3.750	12	29.001	30.314	0.250	1.000	A607-60 (60 ksi)
L10	102.500-101.250	5.000	0.000	12	29.158	30.033	0.313	1.250	A607-65 (65 ksi)
L11	101.250-96.250	5.000	0.000	12	30.033	30.908	0.313	1.250	A607-65 (65 ksi)
L12	96.250-91.250	5.000	0.000	12	30.908	31.783	0.313	1.250	A607-65 (65 ksi)
L13	91.250-86.250	5.000	0.000	12	31.783	32.658	0.313	1.250	A607-65 (65 ksi)
L14	86.250-81.250	5.000	0.000	12	32.658	33.534	0.313	1.250	A607-65 (65 ksi)
L15	81.250-76.250	5.000	0.000	12	33.534	34.409	0.313	1.250	A607-65 (65 ksi)
L16	76.250-73.500	2.750	0.000	12	34.409	34.890	0.313	1.250	A607-65 (65 ksi)
L17	73.500-73.250	0.250	0.000	12	34.890	34.934	0.400	1.600	A607-65 (65 ksi)
L18	73.250-68.250	5.000	0.000	12	34.934	35.809	0.400	1.600	A607-65 (65 ksi)
L19	68.250-62.000	6.250	4.750	12	35.809	36.903	0.400	1.600	A607-65 (65 ksi)
L20	62.000-61.000	5.750	0.000	12	35.447	36.453	0.375	1.500	A607-65 (65 ksi)
L21	61.000-56.250	4.750	0.000	12	36.453	37.284	0.375	1.500	A607-65 (65 ksi)
L22	56.250-56.000	0.250	0.000	12	37.284	37.328	0.456	1.825	A607-65 (65 ksi)
L23	56.000-51.000	5.000	0.000	12	37.328	38.203	0.456	1.825	A607-65 (65 ksi)
L24	51.000-46.000	5.000	0.000	12	38.203	39.078	0.450	1.800	A607-65 (65 ksi)
L25	46.000-41.000	5.000	0.000	12	39.078	39.954	0.450	1.800	A607-65 (65 ksi)
L26	41.000-39.500	1.500	0.000	12	39.954	40.216	0.450	1.800	A607-65 (65 ksi)
L27	39.500-39.250	0.250	0.000	12	40.216	40.260	0.487	1.950	A607-65 (65 ksi)
L28	39.250-38.750	0.500	0.000	12	40.260	40.347	0.487	1.950	A607-65 (65 ksi)

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L29	38.750-38.500	0.250	0.000	12	40.347	40.391	0.475	1.900	A607-65 (65 ksi)
L30	38.500-32.250	6.250	5.250	12	40.391	41.485	0.475	1.900	A607-65 (65 ksi)
L31	32.250-31.250	6.250	0.000	12	39.816	40.910	0.537	2.150	A607-65 (65 ksi)
L32	31.250-26.250	5.000	0.000	12	40.910	41.785	0.537	2.150	A607-65 (65 ksi)
L33	26.250-21.250	5.000	0.000	12	41.785	42.660	0.537	2.150	A607-65 (65 ksi)
L34	21.250-16.250	5.000	0.000	12	42.660	43.536	0.531	2.125	A607-65 (65 ksi)
L35	16.250-11.250	5.000	0.000	12	43.536	44.411	0.525	2.100	A607-65 (65 ksi)
L36	11.250-10.000	1.250	0.000	12	44.411	44.630	0.525	2.100	A607-65 (65 ksi)
L37	10.000-9.750	0.250	0.000	12	44.630	44.673	0.463	1.850	A607-65 (65 ksi)
L38	9.750-7.250	2.500	0.000	12	44.673	45.111	0.463	1.850	A607-65 (65 ksi)
L39	7.250-7.000	0.250	0.000	12	45.111	45.155	0.506	2.025	A607-65 (65 ksi)
L40	7.000-2.000	5.000	0.000	12	45.155	46.030	0.500	2.000	A607-65 (65 ksi)
L41	2.000-0.000	2.000		12	46.030	46.380	0.500	2.000	A607-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	22.688	17.509	1057.206	7.786	11.396	92.770	2142.186	8.617	5.226	20.904
	23.594	18.213	1190.027	8.100	11.849	100.430	2411.317	8.964	5.461	21.842
L2	23.594	18.213	1190.027	8.100	11.849	100.430	2411.317	8.964	5.461	21.842
	24.500	18.918	1333.530	8.413	12.303	108.394	2702.094	9.311	5.695	22.78
L3	24.500	18.918	1333.530	8.413	12.303	108.394	2702.094	9.311	5.695	22.78
	25.406	19.622	1488.131	8.726	12.756	116.661	3015.356	9.657	5.930	23.719
L4	25.406	19.622	1488.131	8.726	12.756	116.661	3015.356	9.657	5.930	23.719
	26.312	20.327	1654.240	9.040	13.209	125.233	3351.939	10.004	6.164	24.657
L5	26.312	20.327	1654.240	9.040	13.209	125.233	3351.939	10.004	6.164	24.657
	27.218	21.031	1832.273	9.353	13.663	134.108	3712.681	10.351	6.399	25.595
L6	27.218	21.031	1832.273	9.353	13.663	134.108	3712.681	10.351	6.399	25.595
	28.124	21.736	2022.641	9.666	14.116	143.287	4098.419	10.698	6.633	26.533
L7	28.124	21.736	2022.641	9.666	14.116	143.287	4098.419	10.698	6.633	26.533
	29.030	22.440	2225.759	9.980	14.569	152.770	4509.991	11.044	6.868	27.471
L8	29.030	22.440	2225.759	9.980	14.569	152.770	4509.991	11.044	6.868	27.471
	29.936	23.145	2442.039	10.293	15.023	162.557	4948.233	11.391	7.102	28.409
L9	29.936	23.145	2442.039	10.293	15.023	162.557	4948.233	11.391	7.102	28.409
	31.295	24.202	2792.043	10.763	15.703	177.807	5657.436	11.911	7.454	29.817
L10	30.756	29.025	3082.545	10.327	15.104	204.093	6246.072	14.285	6.977	22.326
	30.982	29.906	3371.724	10.640	15.557	216.734	6832.027	14.719	7.211	23.076
L11	30.982	29.906	3371.724	10.640	15.557	216.734	6832.027	14.719	7.211	23.076
	31.888	30.787	3678.446	10.953	16.010	229.754	7453.529	15.152	7.446	23.827
L12	31.888	30.787	3678.446	10.953	16.010	229.754	7453.529	15.152	7.446	23.827
	32.794	31.667	4003.227	11.267	16.464	243.155	8111.624	15.586	7.680	24.577
L13	32.794	31.667	4003.227	11.267	16.464	243.155	8111.624	15.586	7.680	24.577

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
	33.700	32.548	4346.584	11.580	16.917	256.935	8807.358	16.019	7.915	25.328
L14	33.700	32.548	4346.584	11.580	16.917	256.935	8807.358	16.019	7.915	25.328
	34.606	33.429	4709.033	11.893	17.370	271.096	9541.778	16.453	8.149	26.078
L15	34.606	33.429	4709.033	11.893	17.370	271.096	9541.778	16.453	8.149	26.078
	35.512	34.309	5091.091	12.206	17.824	285.636	10315.931	16.886	8.384	26.829
L16	35.512	34.309	5091.091	12.206	17.824	285.636	10315.931	16.886	8.384	26.829
	36.011	34.794	5309.769	12.379	18.073	293.795	10759.031	17.124	8.513	27.242
L17	35.980	44.423	6745.038	12.347	18.073	373.209	13667.275	21.864	8.279	20.696
	36.025	44.480	6770.744	12.363	18.096	374.163	13719.362	21.891	8.290	20.726
L18	36.025	44.480	6770.744	12.363	18.096	374.163	13719.362	21.891	8.290	20.726
	36.931	45.607	7298.668	12.676	18.549	393.479	14789.079	22.446	8.525	21.312
L19	36.931	45.607	7298.668	12.676	18.549	393.479	14789.079	22.446	8.525	21.312
	38.064	47.016	7996.271	13.068	19.116	418.308	16202.612	23.140	8.818	22.045
L20	37.425	42.349	6648.734	12.556	18.361	362.105	13472.137	20.843	8.495	22.652
	37.607	43.564	7237.686	12.916	18.883	383.298	14665.514	21.441	8.764	23.372
L21	37.607	43.564	7237.686	12.916	18.883	383.298	14665.514	21.441	8.764	23.372
	38.467	44.568	7749.658	13.214	19.313	401.260	15702.908	21.935	8.987	23.966
L22	38.439	54.105	9366.620	13.184	19.313	484.983	18979.312	26.629	8.769	19.221
	38.484	54.169	9400.046	13.200	19.336	486.143	19047.042	26.661	8.781	19.246
L23	38.484	54.169	9400.046	13.200	19.336	486.143	19047.042	26.661	8.781	19.246
	39.390	55.455	10085.373	13.513	19.789	509.638	20435.699	27.293	9.016	19.76
L24	39.392	54.704	9952.159	13.516	19.789	502.907	20165.772	26.924	9.032	20.072
	40.298	55.973	10660.409	13.829	20.243	526.632	21600.880	27.548	9.267	20.593
L25	40.298	55.973	10660.409	13.829	20.243	526.632	21600.880	27.548	9.267	20.593
	41.204	57.241	11401.489	14.142	20.696	550.905	23102.508	28.172	9.502	21.115
L26	41.204	57.241	11401.489	14.142	20.696	550.905	23102.508	28.172	9.502	21.115
	41.476	57.621	11630.326	14.236	20.832	558.294	23566.194	28.359	9.572	21.271
L27	41.463	62.364	12563.909	14.223	20.832	603.109	25457.886	30.694	9.471	19.429
	41.508	62.433	12605.468	14.238	20.855	604.446	25542.096	30.727	9.483	19.453
L28	41.508	62.433	12605.468	14.238	20.855	604.446	25542.096	30.727	9.483	19.453
	41.599	62.570	12688.861	14.270	20.900	607.125	25711.072	30.795	9.507	19.501
L29	41.603	60.985	12375.141	14.274	20.900	592.114	25075.390	30.015	9.540	20.084
	41.648	61.052	12415.928	14.290	20.923	593.422	25158.035	30.048	9.552	20.109
L30	41.648	61.052	12415.928	14.290	20.923	593.422	25158.035	30.048	9.552	20.109
	42.781	62.725	13464.950	14.682	21.489	626.591	27283.639	30.871	9.845	20.726
L31	41.982	67.981	13387.165	14.062	20.625	649.083	27126.025	33.458	9.230	17.172
	42.164	69.875	14537.180	14.453	21.191	685.993	29456.268	34.390	9.523	17.718
L32	42.164	69.875	14537.180	14.453	21.191	685.993	29456.268	34.390	9.523	17.718
	43.070	71.390	15503.220	14.767	21.645	716.257	31413.728	35.136	9.758	18.154
L33	43.070	71.390	15503.220	14.767	21.645	716.257	31413.728	35.136	9.758	18.154
	43.976	72.904	16511.138	15.080	22.098	747.174	33456.041	35.881	9.993	18.591
L34	43.978	72.067	16326.413	15.082	22.098	738.815	33081.739	35.469	10.009	18.841
	44.884	73.564	17365.183	15.396	22.551	770.025	35186.569	36.206	10.244	19.282
L35	44.886	72.709	17168.370	15.398	22.551	761.297	34787.772	35.785	10.261	19.544
	45.792	74.189	18237.872	15.711	23.005	792.785	36954.873	36.514	10.495	19.991
L36	45.792	74.189	18237.872	15.711	23.005	792.785	36954.873	36.514	10.495	19.991
	46.019	74.559	18512.013	15.789	23.118	800.757	37510.358	36.696	10.554	20.102
L37	46.041	65.776	16377.631	15.812	23.118	708.432	33185.520	32.373	10.721	23.181
	46.086	65.841	16426.358	15.827	23.141	709.844	33284.255	32.405	10.733	23.206
L38	46.086	65.841	16426.358	15.827	23.141	709.844	33284.255	32.405	10.733	23.206
	46.539	66.493	16918.959	15.984	23.367	724.038	34282.397	32.726	10.850	23.46
L39	46.524	72.711	18465.014	15.968	23.367	790.201	37415.124	35.786	10.733	21.201
	46.569	72.783	18519.412	15.984	23.390	791.761	37525.350	35.821	10.745	21.224
L40	46.571	71.894	18298.460	15.986	23.390	782.315	37077.640	35.384	10.761	21.523
	47.477	73.303	19395.575	16.300	23.844	813.453	39300.693	36.078	10.996	21.992
L41	47.477	73.303	19395.575	16.300	23.844	813.453	39300.693	36.078	10.996	21.992
	47.840	73.867	19846.414	16.425	24.025	826.079	40214.216	36.355	11.090	22.18

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 150.000-145.000				1	1	1			
L2 145.000-140.000				1	1	1			
L3 140.000-135.000				1	1	1			
L4 135.000-130.000				1	1	1			
L5 130.000-125.000				1	1	1			
L6 125.000-120.000				1	1	1			
L7 120.000-115.000				1	1	1			
L8 115.000-110.000				1	1	1			
L9 110.000-102.500				1	1	1			
L10 102.500-101.250				1	1	1			
L11 101.250-96.250				1	1	1			
L12 96.250-91.250				1	1	1			
L13 91.250-86.250				1	1	1			
L14 86.250-81.250				1	1	1			
L15 81.250-76.250				1	1	1			
L16 76.250-73.500				1	1	1			
L17 73.500-73.250				1	1	0.98586			
L18 73.250-68.250				1	1	0.980802			
L19 68.250-62.000				1	1	0.979334			
L20 62.000-61.000				1	1	1			
L21 61.000-56.250				1	1	1			
L22 56.250-56.000				1	1	0.990113			
L23 56.000-51.000				1	1	0.986213			
L24 51.000-46.000				1	1	0.995975			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L25 46.000-41.000				1	1	0.992372			
L26 41.000-39.500				1	1	0.991322			
L27 39.500-39.250				1	1	1.04409			
L28 39.250-38.750				1	1	1.04349			
L29 38.750-38.500				1	1	0.988288			
L30 38.500-32.250				1	1	0.98742			
L31 32.250-31.250				1	1	0.987951			
L32 31.250-26.250				1	1	0.98426			
L33 26.250-21.250				1	1	0.980721			
L34 21.250-16.250				1	1	0.988681			
L35 16.250-11.250				1	1	0.996976			
L36 11.250-10.000				1	1	0.996164			
L37 10.000-9.750				1	1	1.06816			
L38 9.750-7.250				1	1	1.06696			
L39 7.250-7.000				1	1	0.975602			
L40 7.000-2.000				1	1	0.985493			
L41 2.000-0.000				1	1	0.98465			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
*										
CCI 4" x 1" Plate	A	No	Surface Af (CaAa)	11.250 - 0.000	1	1	0.000 0.000	4.000	10.000	0.000
CCI 4" x 1" Plate	A	No	Surface Af (CaAa)	40.500 - 5.500	1	1	0.000 0.000	4.000	10.000	0.000
CCI 4" x 1" Plate	B	No	Surface Af (CaAa)	41.250 - 0.000	1	1	0.000 0.000	4.000	10.000	0.000
CCI 4" x 1" Plate	C	No	Surface Af (CaAa)	41.250 - 0.000	1	1	0.000 0.000	4.000	10.000	0.000
CCI 4" x 0.75" Plate	A	No	Surface Af (CaAa)	57.500 - 37.500	1	1	0.000 0.000	4.000	9.500	0.000
CCI 4" x 0.75" Plate	B	No	Surface Af (CaAa)	57.500 - 37.500	1	1	0.000 0.000	4.000	9.500	0.000
CCI 4" x 0.75" Plate	C	No	Surface Af	57.500 -	1	1	0.000	4.000	9.500	0.000

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight klf
			(CaAa)	37.500			0.000			
CCI 4" x 0.75" Plate	A	No	Surface Af (CaAa)	74.750 - 64.750	1	1	0.000 0.000	4.000	9.500	0.000
CCI 4" x 0.75" Plate	B	No	Surface Af (CaAa)	74.750 - 64.750	1	1	0.000 0.000	4.000	9.500	0.000
CCI 4" x 0.75" Plate	C	No	Surface Af (CaAa)	74.750 - 64.750	1	1	0.000 0.000	4.000	9.500	0.000
*										
*										
*										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
HB114-1-0813U4-M5J(1-1/4)	B	No	No	Inside Pole	150.000 - 0.000	3	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
LDF5-50A(7/8)	C	No	No	Inside Pole	150.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
*									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	138.000 - 0.000	11	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
LDF4-50A(1/2)	C	No	No	Inside Pole	138.000 - 0.000	2	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
HCS 6X12 6AWG(1-3/8)	C	No	No	Inside Pole	138.000 - 0.000	1	No Ice	0.000	0.002
							1/2" Ice	0.000	0.002
							1" Ice	0.000	0.002
							2" Ice	0.000	0.002
*									
HB158-1-08U8-S8J18(1-5/8)	A	No	No	Inside Pole	126.000 - 0.000	1	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
LDF4-50A(1/2)	A	No	No	Inside Pole	124.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
LDF7-50A(1-5/8)	A	No	No	Inside Pole	124.000 - 0.000	7	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
*									
LDF7-50A(1-5/8)	C	No	No	Inside Pole	102.000 - 0.000	6	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
FB-L98B-002-50000	C	No	No	Inside Pole	102.000 - 0.000	2	No Ice	0.000	0.000

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight klf
(3/8)							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
WR-VG82ST-BRD A(5/8)	C	No	No	Inside Pole	102.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
WR-VG82ST-BRD A(5/8)	C	No	No	Inside Pole	102.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
2" Rigid Conduit	C	No	No	Inside Pole	102.000 - 0.000	2	No Ice	0.000	0.003
							1/2" Ice	0.000	0.003
							1" Ice	0.000	0.003
							2" Ice	0.000	0.003
WR-VG86ST-BRD(3/4)	C	No	No	Inside Pole	102.000 - 0.000	2	No Ice	0.000	0.001
							1/2" Ice	0.000	0.001
							1" Ice	0.000	0.001
							2" Ice	0.000	0.001
*									
LDF4-50A(1/2)	A	No	No	Inside Pole	82.000 - 0.000	1	No Ice	0.000	0.000
							1/2" Ice	0.000	0.000
							1" Ice	0.000	0.000
							2" Ice	0.000	0.000
*									
*									
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	150.000-145.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.002
L2	145.000-140.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.002
L3	140.000-135.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.035
L4	135.000-130.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.057
L5	130.000-125.000	A	0.000	0.000	0.000	0.000	0.001
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.057
L6	125.000-120.000	A	0.000	0.000	0.000	0.000	0.030
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.057
L7	120.000-115.000	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.057

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L8	115.000-110.000	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.057
L9	110.000-102.500	A	0.000	0.000	0.000	0.000	0.054
		B	0.000	0.000	0.000	0.000	0.027
		C	0.000	0.000	0.000	0.000	0.085
L10	102.500-101.250	A	0.000	0.000	0.000	0.000	0.009
		B	0.000	0.000	0.000	0.000	0.004
		C	0.000	0.000	0.000	0.000	0.024
L11	101.250-96.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.119
L12	96.250-91.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.119
L13	91.250-86.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.119
L14	86.250-81.250	A	0.000	0.000	0.000	0.000	0.036
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.119
L15	81.250-76.250	A	0.000	0.000	0.000	0.000	0.037
		B	0.000	0.000	0.000	0.000	0.018
		C	0.000	0.000	0.000	0.000	0.119
L16	76.250-73.500	A	0.000	0.000	0.833	0.000	0.020
		B	0.000	0.000	0.833	0.000	0.010
		C	0.000	0.000	0.833	0.000	0.065
L17	73.500-73.250	A	0.000	0.000	0.167	0.000	0.002
		B	0.000	0.000	0.167	0.000	0.001
		C	0.000	0.000	0.167	0.000	0.006
L18	73.250-68.250	A	0.000	0.000	3.333	0.000	0.037
		B	0.000	0.000	3.333	0.000	0.018
		C	0.000	0.000	3.333	0.000	0.119
L19	68.250-62.000	A	0.000	0.000	2.333	0.000	0.046
		B	0.000	0.000	2.333	0.000	0.022
		C	0.000	0.000	2.333	0.000	0.149
L20	62.000-61.000	A	0.000	0.000	0.000	0.000	0.007
		B	0.000	0.000	0.000	0.000	0.004
		C	0.000	0.000	0.000	0.000	0.024
L21	61.000-56.250	A	0.000	0.000	0.833	0.000	0.035
		B	0.000	0.000	0.833	0.000	0.017
		C	0.000	0.000	0.833	0.000	0.113
L22	56.250-56.000	A	0.000	0.000	0.167	0.000	0.002
		B	0.000	0.000	0.167	0.000	0.001
		C	0.000	0.000	0.167	0.000	0.006
L23	56.000-51.000	A	0.000	0.000	3.333	0.000	0.037
		B	0.000	0.000	3.333	0.000	0.018
		C	0.000	0.000	3.333	0.000	0.119
L24	51.000-46.000	A	0.000	0.000	3.333	0.000	0.037
		B	0.000	0.000	3.333	0.000	0.018
		C	0.000	0.000	3.333	0.000	0.119
L25	46.000-41.000	A	0.000	0.000	3.333	0.000	0.037
		B	0.000	0.000	3.500	0.000	0.018
		C	0.000	0.000	3.500	0.000	0.119
L26	41.000-39.500	A	0.000	0.000	1.667	0.000	0.011
		B	0.000	0.000	2.000	0.000	0.005
		C	0.000	0.000	2.000	0.000	0.036
L27	39.500-39.250	A	0.000	0.000	0.333	0.000	0.002
		B	0.000	0.000	0.333	0.000	0.001
		C	0.000	0.000	0.333	0.000	0.006
L28	39.250-38.750	A	0.000	0.000	0.667	0.000	0.004

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	0.667	0.000	0.002
		C	0.000	0.000	0.667	0.000	0.012
L29	38.750-38.500	A	0.000	0.000	0.333	0.000	0.002
		B	0.000	0.000	0.333	0.000	0.001
		C	0.000	0.000	0.333	0.000	0.006
L30	38.500-32.250	A	0.000	0.000	4.833	0.000	0.046
		B	0.000	0.000	4.833	0.000	0.022
		C	0.000	0.000	4.833	0.000	0.149
L31	32.250-31.250	A	0.000	0.000	0.667	0.000	0.007
		B	0.000	0.000	0.667	0.000	0.004
		C	0.000	0.000	0.667	0.000	0.024
L32	31.250-26.250	A	0.000	0.000	3.333	0.000	0.037
		B	0.000	0.000	3.333	0.000	0.018
		C	0.000	0.000	3.333	0.000	0.119
L33	26.250-21.250	A	0.000	0.000	3.333	0.000	0.037
		B	0.000	0.000	3.333	0.000	0.018
		C	0.000	0.000	3.333	0.000	0.119
L34	21.250-16.250	A	0.000	0.000	3.333	0.000	0.037
		B	0.000	0.000	3.333	0.000	0.018
		C	0.000	0.000	3.333	0.000	0.119
L35	16.250-11.250	A	0.000	0.000	3.333	0.000	0.037
		B	0.000	0.000	3.333	0.000	0.018
		C	0.000	0.000	3.333	0.000	0.119
L36	11.250-10.000	A	0.000	0.000	1.667	0.000	0.009
		B	0.000	0.000	0.833	0.000	0.004
		C	0.000	0.000	0.833	0.000	0.030
L37	10.000-9.750	A	0.000	0.000	0.333	0.000	0.002
		B	0.000	0.000	0.167	0.000	0.001
		C	0.000	0.000	0.167	0.000	0.006
L38	9.750-7.250	A	0.000	0.000	3.333	0.000	0.018
		B	0.000	0.000	1.667	0.000	0.009
		C	0.000	0.000	1.667	0.000	0.059
L39	7.250-7.000	A	0.000	0.000	0.333	0.000	0.002
		B	0.000	0.000	0.167	0.000	0.001
		C	0.000	0.000	0.167	0.000	0.006
L40	7.000-2.000	A	0.000	0.000	4.333	0.000	0.037
		B	0.000	0.000	3.333	0.000	0.018
		C	0.000	0.000	3.333	0.000	0.119
L41	2.000-0.000	A	0.000	0.000	1.333	0.000	0.015
		B	0.000	0.000	1.333	0.000	0.007
		C	0.000	0.000	1.333	0.000	0.048

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	150.000-145.000	A	1.481	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.002
L2	145.000-140.000	A	1.476	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.002
L3	140.000-135.000	A	1.471	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.035
L4	135.000-130.000	A	1.465	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.018

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		C		0.000	0.000	0.000	0.000	0.057
L5	130.000-125.000	A	1.460	0.000	0.000	0.000	0.000	0.001
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.057
L6	125.000-120.000	A	1.454	0.000	0.000	0.000	0.000	0.030
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.057
L7	120.000-115.000	A	1.448	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.057
L8	115.000-110.000	A	1.441	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.057
L9	110.000-102.500	A	1.433	0.000	0.000	0.000	0.000	0.054
		B		0.000	0.000	0.000	0.000	0.027
		C		0.000	0.000	0.000	0.000	0.085
L10	102.500-101.250	A	1.427	0.000	0.000	0.000	0.000	0.009
		B		0.000	0.000	0.000	0.000	0.004
		C		0.000	0.000	0.000	0.000	0.024
L11	101.250-96.250	A	1.423	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.119
L12	96.250-91.250	A	1.415	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.119
L13	91.250-86.250	A	1.408	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.119
L14	86.250-81.250	A	1.399	0.000	0.000	0.000	0.000	0.036
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.119
L15	81.250-76.250	A	1.391	0.000	0.000	0.000	0.000	0.037
		B		0.000	0.000	0.000	0.000	0.018
		C		0.000	0.000	0.000	0.000	0.119
L16	76.250-73.500	A	1.384	0.000	0.000	1.073	0.000	0.030
		B		0.000	0.000	1.073	0.000	0.020
		C		0.000	0.000	1.073	0.000	0.075
L17	73.500-73.250	A	1.381	0.000	0.000	0.215	0.000	0.004
		B		0.000	0.000	0.215	0.000	0.003
		C		0.000	0.000	0.215	0.000	0.008
L18	73.250-68.250	A	1.376	0.000	0.000	4.288	0.000	0.076
		B		0.000	0.000	4.288	0.000	0.057
		C		0.000	0.000	4.288	0.000	0.158
L19	68.250-62.000	A	1.365	0.000	0.000	2.998	0.000	0.073
		B		0.000	0.000	2.998	0.000	0.050
		C		0.000	0.000	2.998	0.000	0.176
L20	62.000-61.000	A	1.357	0.000	0.000	0.000	0.000	0.007
		B		0.000	0.000	0.000	0.000	0.004
		C		0.000	0.000	0.000	0.000	0.024
L21	61.000-56.250	A	1.350	0.000	0.000	1.171	0.000	0.044
		B		0.000	0.000	1.171	0.000	0.027
		C		0.000	0.000	1.171	0.000	0.123
L22	56.250-56.000	A	1.345	0.000	0.000	0.234	0.000	0.004
		B		0.000	0.000	0.234	0.000	0.003
		C		0.000	0.000	0.234	0.000	0.008
L23	56.000-51.000	A	1.338	0.000	0.000	4.671	0.000	0.075
		B		0.000	0.000	4.671	0.000	0.056
		C		0.000	0.000	4.671	0.000	0.157
L24	51.000-46.000	A	1.325	0.000	0.000	4.658	0.000	0.074
		B		0.000	0.000	4.658	0.000	0.055
		C		0.000	0.000	4.658	0.000	0.156

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L25	46.000-41.000	A	1.311	0.000	0.000	4.644	0.000	0.074
		B		0.000	0.000	4.876	0.000	0.057
		C		0.000	0.000	4.876	0.000	0.158
L26	41.000-39.500	A	1.301	0.000	0.000	2.317	0.000	0.030
		B		0.000	0.000	2.780	0.000	0.028
		C		0.000	0.000	2.780	0.000	0.058
L27	39.500-39.250	A	1.298	0.000	0.000	0.463	0.000	0.006
		B		0.000	0.000	0.463	0.000	0.005
		C		0.000	0.000	0.463	0.000	0.010
L28	39.250-38.750	A	1.296	0.000	0.000	0.926	0.000	0.011
		B		0.000	0.000	0.926	0.000	0.009
		C		0.000	0.000	0.926	0.000	0.019
L29	38.750-38.500	A	1.295	0.000	0.000	0.463	0.000	0.006
		B		0.000	0.000	0.463	0.000	0.005
		C		0.000	0.000	0.463	0.000	0.010
L30	38.500-32.250	A	1.284	0.000	0.000	6.695	0.000	0.099
		B		0.000	0.000	6.695	0.000	0.076
		C		0.000	0.000	6.695	0.000	0.202
L31	32.250-31.250	A	1.270	0.000	0.000	0.923	0.000	0.015
		B		0.000	0.000	0.923	0.000	0.011
		C		0.000	0.000	0.923	0.000	0.031
L32	31.250-26.250	A	1.258	0.000	0.000	4.591	0.000	0.073
		B		0.000	0.000	4.591	0.000	0.054
		C		0.000	0.000	4.591	0.000	0.155
L33	26.250-21.250	A	1.234	0.000	0.000	4.567	0.000	0.072
		B		0.000	0.000	4.567	0.000	0.053
		C		0.000	0.000	4.567	0.000	0.154
L34	21.250-16.250	A	1.205	0.000	0.000	4.538	0.000	0.071
		B		0.000	0.000	4.538	0.000	0.052
		C		0.000	0.000	4.538	0.000	0.153
L35	16.250-11.250	A	1.168	0.000	0.000	4.501	0.000	0.069
		B		0.000	0.000	4.501	0.000	0.051
		C		0.000	0.000	4.501	0.000	0.152
L36	11.250-10.000	A	1.138	0.000	0.000	2.206	0.000	0.025
		B		0.000	0.000	1.118	0.000	0.012
		C		0.000	0.000	1.118	0.000	0.038
L37	10.000-9.750	A	1.130	0.000	0.000	0.441	0.000	0.005
		B		0.000	0.000	0.223	0.000	0.002
		C		0.000	0.000	0.223	0.000	0.008
L38	9.750-7.250	A	1.113	0.000	0.000	4.393	0.000	0.049
		B		0.000	0.000	2.223	0.000	0.024
		C		0.000	0.000	2.223	0.000	0.075
L39	7.250-7.000	A	1.094	0.000	0.000	0.438	0.000	0.005
		B		0.000	0.000	0.221	0.000	0.002
		C		0.000	0.000	0.221	0.000	0.007
L40	7.000-2.000	A	1.044	0.000	0.000	5.619	0.000	0.074
		B		0.000	0.000	4.378	0.000	0.046
		C		0.000	0.000	4.378	0.000	0.147
L41	2.000-0.000	A	0.899	0.000	0.000	1.680	0.000	0.024
		B		0.000	0.000	1.693	0.000	0.017
		C		0.000	0.000	1.693	0.000	0.057

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L1	150.000-145.000	0.000	0.000	0.000	0.000
L2	145.000-140.000	0.000	0.000	0.000	0.000
L3	140.000-135.000	0.000	0.000	0.000	0.000
L4	135.000-130.000	0.000	0.000	0.000	0.000
L5	130.000-125.000	0.000	0.000	0.000	0.000
L6	125.000-120.000	0.000	0.000	0.000	0.000
L7	120.000-115.000	0.000	0.000	0.000	0.000
L8	115.000-110.000	0.000	0.000	0.000	0.000
L9	110.000-102.500	0.000	0.000	0.000	0.000
L10	102.500-101.250	0.000	0.000	0.000	0.000
L11	101.250-96.250	0.000	0.000	0.000	0.000
L12	96.250-91.250	0.000	0.000	0.000	0.000
L13	91.250-86.250	0.000	0.000	0.000	0.000
L14	86.250-81.250	0.000	0.000	0.000	0.000
L15	81.250-76.250	0.000	0.000	0.000	0.000
L16	76.250-73.500	0.000	0.000	0.000	0.000
L17	73.500-73.250	0.000	0.000	0.000	0.000
L18	73.250-68.250	0.000	0.000	0.000	0.000
L19	68.250-62.000	0.000	0.000	0.000	0.000
L20	62.000-61.000	0.000	0.000	0.000	0.000
L21	61.000-56.250	0.000	0.000	0.000	0.000
L22	56.250-56.000	0.000	0.000	0.000	0.000
L23	56.000-51.000	0.000	0.000	0.000	0.000
L24	51.000-46.000	0.000	0.000	0.000	0.000
L25	46.000-41.000	0.112	0.064	0.114	0.066
L26	41.000-39.500	0.560	0.323	0.569	0.328
L27	39.500-39.250	0.000	0.000	0.000	0.000
L28	39.250-38.750	0.000	0.000	0.000	0.000
L29	38.750-38.500	0.000	0.000	0.000	0.000
L30	38.500-32.250	0.000	0.000	0.000	0.000
L31	32.250-31.250	0.000	0.000	0.000	0.000
L32	31.250-26.250	0.000	0.000	0.000	0.000
L33	26.250-21.250	0.000	0.000	0.000	0.000
L34	21.250-16.250	0.000	0.000	0.000	0.000
L35	16.250-11.250	0.000	0.000	0.000	0.000
L36	11.250-10.000	-2.086	-1.204	-2.050	-1.183
L37	10.000-9.750	-2.087	-1.205	-2.051	-1.184
L38	9.750-7.250	-2.092	-1.208	-2.056	-1.187
L39	7.250-7.000	-2.097	-1.211	-2.061	-1.190
L40	7.000-2.000	-0.677	-0.391	-0.639	-0.369
L41	2.000-0.000	0.000	0.000	0.017	0.010

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L16	32	CCI 4" x 0.75" Plate	73.50 - 74.75	1.0000	1.0000
L16	33	CCI 4" x 0.75" Plate	73.50 - 74.75	1.0000	1.0000
L16	34	CCI 4" x 0.75" Plate	73.50 - 74.75	1.0000	1.0000
L17	32	CCI 4" x 0.75" Plate	73.25 - 73.50	1.0000	1.0000
L17	33	CCI 4" x 0.75" Plate	73.25 - 73.50	1.0000	1.0000
L17	34	CCI 4" x 0.75" Plate	73.25 - 73.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L18	32	CCI 4" x 0.75" Plate	68.25 - 73.25	1.0000	1.0000
L18	33	CCI 4" x 0.75" Plate	68.25 - 73.25	1.0000	1.0000
L18	34	CCI 4" x 0.75" Plate	68.25 - 73.25	1.0000	1.0000
L19	32	CCI 4" x 0.75" Plate	64.75 - 68.25	1.0000	1.0000
L19	33	CCI 4" x 0.75" Plate	64.75 - 68.25	1.0000	1.0000
L19	34	CCI 4" x 0.75" Plate	64.75 - 68.25	1.0000	1.0000
L21	29	CCI 4" x 0.75" Plate	56.25 - 57.50	1.0000	1.0000
L21	30	CCI 4" x 0.75" Plate	56.25 - 57.50	1.0000	1.0000
L21	31	CCI 4" x 0.75" Plate	56.25 - 57.50	1.0000	1.0000
L22	29	CCI 4" x 0.75" Plate	56.00 - 56.25	1.0000	1.0000
L22	30	CCI 4" x 0.75" Plate	56.00 - 56.25	1.0000	1.0000
L22	31	CCI 4" x 0.75" Plate	56.00 - 56.25	1.0000	1.0000
L23	29	CCI 4" x 0.75" Plate	51.00 - 56.00	1.0000	1.0000
L23	30	CCI 4" x 0.75" Plate	51.00 - 56.00	1.0000	1.0000
L23	31	CCI 4" x 0.75" Plate	51.00 - 56.00	1.0000	1.0000
L24	29	CCI 4" x 0.75" Plate	46.00 - 51.00	1.0000	1.0000
L24	30	CCI 4" x 0.75" Plate	46.00 - 51.00	1.0000	1.0000
L24	31	CCI 4" x 0.75" Plate	46.00 - 51.00	1.0000	1.0000
L25	27	CCI 4" x 1" Plate	41.00 - 41.25	1.0000	1.0000
L25	28	CCI 4" x 1" Plate	41.00 - 41.25	1.0000	1.0000
L25	29	CCI 4" x 0.75" Plate	41.00 - 46.00	1.0000	1.0000
L25	30	CCI 4" x 0.75" Plate	41.00 - 46.00	1.0000	1.0000
L25	31	CCI 4" x 0.75" Plate	41.00 - 46.00	1.0000	1.0000
L26	26	CCI 4" x 1" Plate	39.50 - 40.50	1.0000	1.0000
L26	27	CCI 4" x 1" Plate	39.50 - 41.00	1.0000	1.0000
L26	28	CCI 4" x 1" Plate	39.50 - 41.00	1.0000	1.0000
L26	29	CCI 4" x 0.75" Plate	39.50 - 41.00	1.0000	1.0000
L26	30	CCI 4" x 0.75" Plate	39.50 - 41.00	1.0000	1.0000
L26	31	CCI 4" x 0.75" Plate	39.50 - 41.00	1.0000	1.0000
L27	26	CCI 4" x 1" Plate	39.25 - 39.50	1.0000	1.0000
L27	27	CCI 4" x 1" Plate	39.25 - 39.50	1.0000	1.0000
L27	28	CCI 4" x 1" Plate	39.25 - 39.50	1.0000	1.0000
L27	29	CCI 4" x 0.75" Plate	39.25 - 39.50	1.0000	1.0000
L27	30	CCI 4" x 0.75" Plate	39.25 - 39.50	1.0000	1.0000
L27	31	CCI 4" x 0.75" Plate	39.25 - 39.50	1.0000	1.0000
L28	26	CCI 4" x 1" Plate	38.75 - 39.25	1.0000	1.0000
L28	27	CCI 4" x 1" Plate	38.75 - 39.25	1.0000	1.0000
L28	28	CCI 4" x 1" Plate	38.75 - 39.25	1.0000	1.0000
L28	29	CCI 4" x 0.75" Plate	38.75 - 39.25	1.0000	1.0000
L28	30	CCI 4" x 0.75" Plate	38.75 - 39.25	1.0000	1.0000
L28	31	CCI 4" x 0.75" Plate	38.75 - 39.25	1.0000	1.0000
L29	26	CCI 4" x 1" Plate	38.50 - 38.75	1.0000	1.0000
L29	27	CCI 4" x 1" Plate	38.50 - 38.75	1.0000	1.0000
L29	28	CCI 4" x 1" Plate	38.50 - 38.75	1.0000	1.0000
L29	29	CCI 4" x 0.75" Plate	38.50 - 38.75	1.0000	1.0000
L29	30	CCI 4" x 0.75" Plate	38.50 - 38.75	1.0000	1.0000
L29	31	CCI 4" x 0.75" Plate	38.50 - 38.75	1.0000	1.0000
L30	26	CCI 4" x 1" Plate	32.25 - 38.50	1.0000	1.0000
L30	27	CCI 4" x 1" Plate	32.25 - 38.50	1.0000	1.0000
L30	28	CCI 4" x 1" Plate	32.25 - 38.50	1.0000	1.0000
L30	29	CCI 4" x 0.75" Plate	37.50 - 38.50	1.0000	1.0000
L30	30	CCI 4" x 0.75" Plate	37.50 - 38.50	1.0000	1.0000
L30	31	CCI 4" x 0.75" Plate	37.50 - 38.50	1.0000	1.0000
L31	26	CCI 4" x 1" Plate	31.25 - 32.25	1.0000	1.0000
L31	27	CCI 4" x 1" Plate	31.25 - 32.25	1.0000	1.0000
L31	28	CCI 4" x 1" Plate	31.25 - 32.25	1.0000	1.0000
L32	26	CCI 4" x 1" Plate	26.25 - 31.25	1.0000	1.0000
L32	27	CCI 4" x 1" Plate	26.25 - 31.25	1.0000	1.0000
L32	28	CCI 4" x 1" Plate	26.25 - 31.25	1.0000	1.0000
L33	26	CCI 4" x 1" Plate	21.25 - 26.25	1.0000	1.0000
L33	27	CCI 4" x 1" Plate	21.25 - 26.25	1.0000	1.0000
L33	28	CCI 4" x 1" Plate	21.25 - 26.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L34	26	CCI 4" x 1" Plate	16.25 - 21.25	1.0000	1.0000
L34	27	CCI 4" x 1" Plate	16.25 - 21.25	1.0000	1.0000
L34	28	CCI 4" x 1" Plate	16.25 - 21.25	1.0000	1.0000
L35	26	CCI 4" x 1" Plate	11.25 - 16.25	1.0000	1.0000
L35	27	CCI 4" x 1" Plate	11.25 - 16.25	1.0000	1.0000
L35	28	CCI 4" x 1" Plate	11.25 - 16.25	1.0000	1.0000
L36	25	CCI 4" x 1" Plate	10.00 - 11.25	1.0000	1.0000
L36	26	CCI 4" x 1" Plate	10.00 - 11.25	1.0000	1.0000
L36	27	CCI 4" x 1" Plate	10.00 - 11.25	1.0000	1.0000
L36	28	CCI 4" x 1" Plate	10.00 - 11.25	1.0000	1.0000
L37	25	CCI 4" x 1" Plate	9.75 - 10.00	1.0000	1.0000
L37	26	CCI 4" x 1" Plate	9.75 - 10.00	1.0000	1.0000
L37	27	CCI 4" x 1" Plate	9.75 - 10.00	1.0000	1.0000
L37	28	CCI 4" x 1" Plate	9.75 - 10.00	1.0000	1.0000
L38	25	CCI 4" x 1" Plate	7.25 - 9.75	1.0000	1.0000
L38	26	CCI 4" x 1" Plate	7.25 - 9.75	1.0000	1.0000
L38	27	CCI 4" x 1" Plate	7.25 - 9.75	1.0000	1.0000
L38	28	CCI 4" x 1" Plate	7.25 - 9.75	1.0000	1.0000
L39	25	CCI 4" x 1" Plate	7.00 - 7.25	1.0000	1.0000
L39	26	CCI 4" x 1" Plate	7.00 - 7.25	1.0000	1.0000
L39	27	CCI 4" x 1" Plate	7.00 - 7.25	1.0000	1.0000
L39	28	CCI 4" x 1" Plate	7.00 - 7.25	1.0000	1.0000
L40	25	CCI 4" x 1" Plate	2.00 - 7.00	1.0000	1.0000
L40	26	CCI 4" x 1" Plate	5.50 - 7.00	1.0000	1.0000
L40	27	CCI 4" x 1" Plate	2.00 - 7.00	1.0000	1.0000
L40	28	CCI 4" x 1" Plate	2.00 - 7.00	1.0000	1.0000
L41	25	CCI 4" x 1" Plate	0.00 - 2.00	1.0000	1.0000
L41	27	CCI 4" x 1" Plate	0.00 - 2.00	1.0000	1.0000
L41	28	CCI 4" x 1" Plate	0.00 - 2.00	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L16	32	CCI 4" x 0.75" Plate	73.50 - 74.75	Auto	0.0000
L16	33	CCI 4" x 0.75" Plate	73.50 - 74.75	Auto	0.0000
L16	34	CCI 4" x 0.75" Plate	73.50 - 74.75	Auto	0.0000
L17	32	CCI 4" x 0.75" Plate	73.25 - 73.50	Auto	0.0000
L17	33	CCI 4" x 0.75" Plate	73.25 - 73.50	Auto	0.0000
L17	34	CCI 4" x 0.75" Plate	73.25 - 73.50	Auto	0.0000
L18	32	CCI 4" x 0.75" Plate	68.25 - 73.25	Auto	0.0000
L18	33	CCI 4" x 0.75" Plate	68.25 - 73.25	Auto	0.0000
L18	34	CCI 4" x 0.75" Plate	68.25 - 73.25	Auto	0.0000
L19	32	CCI 4" x 0.75" Plate	64.75 - 68.25	Auto	0.0000
L19	33	CCI 4" x 0.75" Plate	64.75 - 68.25	Auto	0.0000
L19	34	CCI 4" x 0.75" Plate	64.75 - 68.25	Auto	0.0000
L21	29	CCI 4" x 0.75" Plate	56.25 - 57.50	Auto	0.0000
L21	30	CCI 4" x 0.75" Plate	56.25 - 57.50	Auto	0.0000
L21	31	CCI 4" x 0.75" Plate	56.25 - 57.50	Auto	0.0000
L22	29	CCI 4" x 0.75" Plate	56.00 - 56.25	Auto	0.0000
L22	30	CCI 4" x 0.75" Plate	56.00 - 56.25	Auto	0.0000
L22	31	CCI 4" x 0.75" Plate	56.00 - 56.25	Auto	0.0000
L23	29	CCI 4" x 0.75" Plate	51.00 - 56.00	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L23	30	CCI 4" x 0.75" Plate	51.00 - 56.00	Auto	0.0000
L23	31	CCI 4" x 0.75" Plate	51.00 - 56.00	Auto	0.0000
L24	29	CCI 4" x 0.75" Plate	46.00 - 51.00	Auto	0.0000
L24	30	CCI 4" x 0.75" Plate	46.00 - 51.00	Auto	0.0000
L24	31	CCI 4" x 0.75" Plate	46.00 - 51.00	Auto	0.0000
L25	27	CCI 4" x 1" Plate	41.00 - 41.25	Auto	0.0000
L25	28	CCI 4" x 1" Plate	41.00 - 41.25	Auto	0.0000
L25	29	CCI 4" x 0.75" Plate	41.00 - 46.00	Auto	0.0000
L25	30	CCI 4" x 0.75" Plate	41.00 - 46.00	Auto	0.0000
L25	31	CCI 4" x 0.75" Plate	41.00 - 46.00	Auto	0.0000
L26	26	CCI 4" x 1" Plate	39.50 - 40.50	Auto	0.0000
L26	27	CCI 4" x 1" Plate	39.50 - 41.00	Auto	0.0000
L26	28	CCI 4" x 1" Plate	39.50 - 41.00	Auto	0.0000
L26	29	CCI 4" x 0.75" Plate	39.50 - 41.00	Auto	0.0000
L26	30	CCI 4" x 0.75" Plate	39.50 - 41.00	Auto	0.0000
L26	31	CCI 4" x 0.75" Plate	39.50 - 41.00	Auto	0.0000
L27	26	CCI 4" x 1" Plate	39.25 - 39.50	Auto	0.0000
L27	27	CCI 4" x 1" Plate	39.25 - 39.50	Auto	0.0000
L27	28	CCI 4" x 1" Plate	39.25 - 39.50	Auto	0.0000
L27	29	CCI 4" x 0.75" Plate	39.25 - 39.50	Auto	0.0000
L27	30	CCI 4" x 0.75" Plate	39.25 - 39.50	Auto	0.0000
L27	31	CCI 4" x 0.75" Plate	39.25 - 39.50	Auto	0.0000
L28	26	CCI 4" x 1" Plate	38.75 - 39.25	Auto	0.0000
L28	27	CCI 4" x 1" Plate	38.75 - 39.25	Auto	0.0000
L28	28	CCI 4" x 1" Plate	38.75 - 39.25	Auto	0.0000
L28	29	CCI 4" x 0.75" Plate	38.75 - 39.25	Auto	0.0000
L28	30	CCI 4" x 0.75" Plate	38.75 - 39.25	Auto	0.0000
L28	31	CCI 4" x 0.75" Plate	38.75 - 39.25	Auto	0.0000
L29	26	CCI 4" x 1" Plate	38.50 - 38.75	Auto	0.0000
L29	27	CCI 4" x 1" Plate	38.50 - 38.75	Auto	0.0000
L29	28	CCI 4" x 1" Plate	38.50 - 38.75	Auto	0.0000
L29	29	CCI 4" x 0.75" Plate	38.50 - 38.75	Auto	0.0000
L29	30	CCI 4" x 0.75" Plate	38.50 - 38.75	Auto	0.0000
L29	31	CCI 4" x 0.75" Plate	38.50 - 38.75	Auto	0.0000
L30	26	CCI 4" x 1" Plate	32.25 - 38.50	Auto	0.0000
L30	27	CCI 4" x 1" Plate	32.25 - 38.50	Auto	0.0000
L30	28	CCI 4" x 1" Plate	32.25 - 38.50	Auto	0.0000
L30	29	CCI 4" x 0.75" Plate	37.50 - 38.50	Auto	0.0000
L30	30	CCI 4" x 0.75" Plate	37.50 - 38.50	Auto	0.0000
L30	31	CCI 4" x 0.75" Plate	37.50 - 38.50	Auto	0.0000
L31	26	CCI 4" x 1" Plate	31.25 - 32.25	Auto	0.0000
L31	27	CCI 4" x 1" Plate	31.25 - 32.25	Auto	0.0000
L31	28	CCI 4" x 1" Plate	31.25 - 32.25	Auto	0.0000
L32	26	CCI 4" x 1" Plate	26.25 - 31.25	Auto	0.0000
L32	27	CCI 4" x 1" Plate	26.25 - 31.25	Auto	0.0000
L32	28	CCI 4" x 1" Plate	26.25 - 31.25	Auto	0.0000
L33	26	CCI 4" x 1" Plate	21.25 - 26.25	Auto	0.0000
L33	27	CCI 4" x 1" Plate	21.25 - 26.25	Auto	0.0000
L33	28	CCI 4" x 1" Plate	21.25 - 26.25	Auto	0.0000
L34	26	CCI 4" x 1" Plate	16.25 - 21.25	Auto	0.0000
L34	27	CCI 4" x 1" Plate	16.25 - 21.25	Auto	0.0000
L34	28	CCI 4" x 1" Plate	16.25 - 21.25	Auto	0.0000
L35	26	CCI 4" x 1" Plate	11.25 - 16.25	Auto	0.0000
L35	27	CCI 4" x 1" Plate	11.25 - 16.25	Auto	0.0000
L35	28	CCI 4" x 1" Plate	11.25 - 16.25	Auto	0.0000
L36	25	CCI 4" x 1" Plate	10.00 - 11.25	Auto	0.0000
L36	26	CCI 4" x 1" Plate	10.00 - 11.25	Auto	0.0000
L36	27	CCI 4" x 1" Plate	10.00 - 11.25	Auto	0.0000
L36	28	CCI 4" x 1" Plate	10.00 - 11.25	Auto	0.0000
L37	25	CCI 4" x 1" Plate	9.75 - 10.00	Auto	0.0000
L37	26	CCI 4" x 1" Plate	9.75 - 10.00	Auto	0.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L37	27	CCI 4" x 1" Plate	9.75 - 10.00	Auto	0.0000
L37	28	CCI 4" x 1" Plate	9.75 - 10.00	Auto	0.0000
L38	25	CCI 4" x 1" Plate	7.25 - 9.75	Auto	0.0000
L38	26	CCI 4" x 1" Plate	7.25 - 9.75	Auto	0.0000
L38	27	CCI 4" x 1" Plate	7.25 - 9.75	Auto	0.0000
L38	28	CCI 4" x 1" Plate	7.25 - 9.75	Auto	0.0000
L39	25	CCI 4" x 1" Plate	7.00 - 7.25	Auto	0.0000
L39	26	CCI 4" x 1" Plate	7.00 - 7.25	Auto	0.0000
L39	27	CCI 4" x 1" Plate	7.00 - 7.25	Auto	0.0000
L39	28	CCI 4" x 1" Plate	7.00 - 7.25	Auto	0.0000
L40	25	CCI 4" x 1" Plate	2.00 - 7.00	Auto	0.0000
L40	26	CCI 4" x 1" Plate	5.50 - 7.00	Auto	0.0000
L40	27	CCI 4" x 1" Plate	2.00 - 7.00	Auto	0.0000
L40	28	CCI 4" x 1" Plate	2.00 - 7.00	Auto	0.0000
L41	25	CCI 4" x 1" Plate	0.00 - 2.00	Auto	0.0000
L41	27	CCI 4" x 1" Plate	0.00 - 2.00	Auto	0.0000
L41	28	CCI 4" x 1" Plate	0.00 - 2.00	Auto	0.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Lightning Rod 5/8" x 6'	B	From Leg	4.000 0.000 0.000	0.000	153.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.375 0.989 1.619 2.464	0.375 0.989 1.619 2.464	0.006 0.010 0.019 0.047
*									
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.090 4.480 4.880 5.710	2.860 3.230 3.610 4.400	0.077 0.127 0.185 0.331
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.600 5.050 5.500 6.440	4.010 4.450 4.890 5.820	0.095 0.160 0.235 0.419
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.600 5.050 5.500 6.440	4.010 4.450 4.890 5.820	0.095 0.160 0.235 0.419
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000	0.000	150.000	No Ice 1/2" Ice	4.600 5.050	4.010 4.450	0.095 0.160

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.000			1" Ice	5.500	4.890	0.235
						2" Ice	6.440	5.820	0.419
DS4C06F36D-D	A	From Leg	4.000	0.000	150.000	No Ice	5.820	5.820	0.050
			0.000			1/2" Ice	7.793	7.793	0.092
			10.000			1" Ice	9.783	9.783	0.146
						2" Ice	13.813	13.813	0.292
TD-RRH8X20-25	A	From Leg	4.000	0.000	150.000	No Ice	4.045	1.535	0.070
			0.000			1/2" Ice	4.298	1.714	0.097
			-2.000			1" Ice	4.557	1.901	0.128
						2" Ice	5.098	2.295	0.201
TD-RRH8X20-25	B	From Leg	4.000	0.000	150.000	No Ice	4.045	1.535	0.070
			0.000			1/2" Ice	4.298	1.714	0.097
			-2.000			1" Ice	4.557	1.901	0.128
						2" Ice	5.098	2.295	0.201
TD-RRH8X20-25	C	From Leg	4.000	0.000	150.000	No Ice	4.045	1.535	0.070
			0.000			1/2" Ice	4.298	1.714	0.097
			-2.000			1" Ice	4.557	1.901	0.128
						2" Ice	5.098	2.295	0.201
1900MHZ RRH (65MHZ)	A	From Leg	4.000	0.000	150.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
						2" Ice	3.174	3.243	0.176
1900MHZ RRH (65MHZ)	B	From Leg	4.000	0.000	150.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
						2" Ice	3.174	3.243	0.176
1900MHZ RRH (65MHZ)	C	From Leg	4.000	0.000	150.000	No Ice	2.313	2.375	0.060
			0.000			1/2" Ice	2.517	2.581	0.084
			0.000			1" Ice	2.728	2.794	0.111
						2" Ice	3.174	3.243	0.176
800MHZ RRH	A	From Leg	4.000	0.000	150.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
						2" Ice	2.920	2.510	0.157
800MHZ RRH	B	From Leg	4.000	0.000	150.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
						2" Ice	2.920	2.510	0.157
800MHZ RRH	C	From Leg	4.000	0.000	150.000	No Ice	2.134	1.773	0.053
			0.000			1/2" Ice	2.320	1.946	0.074
			0.000			1" Ice	2.512	2.127	0.098
						2" Ice	2.920	2.510	0.157
(3) ACU-A20-N	A	From Leg	4.000	0.000	150.000	No Ice	0.067	0.117	0.001
			0.000			1/2" Ice	0.104	0.162	0.002
			0.000			1" Ice	0.148	0.215	0.004
						2" Ice	0.259	0.343	0.012
(3) ACU-A20-N	B	From Leg	4.000	0.000	150.000	No Ice	0.067	0.117	0.001
			0.000			1/2" Ice	0.104	0.162	0.002
			0.000			1" Ice	0.148	0.215	0.004
						2" Ice	0.259	0.343	0.012
(3) ACU-A20-N	C	From Leg	4.000	0.000	150.000	No Ice	0.067	0.117	0.001
			0.000			1/2" Ice	0.104	0.162	0.002
			0.000			1" Ice	0.148	0.215	0.004
						2" Ice	0.259	0.343	0.012
800 EXTERNAL NOTCH FILTER	A	From Leg	4.000	0.000	150.000	No Ice	0.660	0.321	0.011
			0.000			1/2" Ice	0.763	0.398	0.017
			0.000			1" Ice	0.873	0.483	0.024

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice	1.115	0.674	0.045
800 EXTERNAL NOTCH FILTER	B	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.660 0.763 0.873 1.115	0.321 0.398 0.483 0.674	0.011 0.017 0.024 0.045
800 EXTERNAL NOTCH FILTER	C	From Leg	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.660 0.763 0.873 1.115	0.321 0.398 0.483 0.674	0.011 0.017 0.024 0.045
6' x 2" Mount Pipe	A	From Face	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.022 0.033 0.048 0.090
6' x 2" Mount Pipe	B	From Face	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.022 0.033 0.048 0.090
6' x 2" Mount Pipe	C	From Face	4.000 0.000 0.000	0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.425 1.925 2.294 3.060	1.425 1.925 2.294 3.060	0.022 0.033 0.048 0.090
4' x 2" Pipe Mount	A	From Leg	1.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
4' x 2" Pipe Mount	B	From Leg	1.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
4' x 2" Pipe Mount	C	From Leg	1.000 0.000 0.000	0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
Miscellaneous [NA 507-1]	C	None		0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.560 6.390 8.180 11.660	4.560 6.390 8.180 11.660	0.245 0.311 0.402 0.657
Platform Mount [LP 1201-1]	C	None		0.000	150.000	No Ice 1/2" Ice 1" Ice 2" Ice	18.380 22.110 25.870 33.470	18.380 22.110 25.870 33.470	2.100 2.652 3.263 4.662
Side Arm Mount [SO 102-3]	C	None		0.000	147.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.600 4.180 4.750 5.900	3.600 4.180 4.750 5.900	0.075 0.105 0.135 0.195
*									
(2) ERICSSON AIR 21 B2A B4P w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.140 3.450 3.770 4.430	2.590 2.880 3.190 3.840	0.112 0.164 0.225 0.375
(2) ERICSSON AIR 21 B2A B4P w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.140 3.450 3.770 4.430	2.590 2.880 3.190 3.840	0.112 0.164 0.225 0.375
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice	3.760 4.120 4.480	3.150 3.490 3.840	0.194 0.252 0.320

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice	5.240	4.580	0.485
(2) AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.760 4.120 4.480 5.240	3.150 3.490 3.840 4.580	0.194 0.252 0.320 0.485
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	3.760 4.120 4.480 5.240	3.150 3.490 3.840 4.580	0.194 0.252 0.320 0.485
APXVAA24_43-U-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.157 0.285 0.427 0.756
(2) APXVAA24_43-U-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.157 0.285 0.427 0.756
APXVAA24_43-U-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	14.690 15.460 16.230 17.820	6.870 7.550 8.250 9.670	0.157 0.285 0.427 0.756
(4) ATMA4P4DBP-1A20	A	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.747 0.857 0.975 1.233	0.457 0.550 0.651 0.874	0.017 0.024 0.032 0.055
(2) RADIO 4449 B12/B71	A	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.650 1.810 1.978 2.336	1.163 1.301 1.447 1.762	0.074 0.090 0.109 0.155
(2) RADIO 4449 B12/B71	B	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.650 1.810 1.978 2.336	1.163 1.301 1.447 1.762	0.074 0.090 0.109 0.155
GPS_A	A	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.255 0.320 0.393 0.561	0.255 0.320 0.393 0.561	0.001 0.005 0.010 0.025
5' x 2" Pipe Mount	A	From Leg	4.000 0.000 0.000	0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.188 1.496 1.807 2.458	1.188 1.496 1.807 2.458	0.018 0.027 0.040 0.076
Platform Mount [LP 701-1]	C	None		0.000	138.000	No Ice 1/2" Ice 1" Ice 2" Ice	58.680 66.010 73.410 88.400	58.680 66.010 73.410 88.400	2.750 3.841 5.069 7.939
* TMA-DB-T1-6Z-8AB-0Z	A	From Leg	1.000 0.000 3.000	0.000	126.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.800 5.070 5.348 5.926	2.000 2.193 2.393 2.815	0.044 0.080 0.120 0.213
* BXA-70080/4CF w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	124.000	No Ice 1/2" Ice 1" Ice 2" Ice	4.991 5.373 5.763 6.569	3.997 4.611 5.232 6.504	0.031 0.075 0.125 0.245
BXA-80063/4CF w/ Mount Pipe	B	From Leg	4.000 0.000	0.000	124.000	No Ice 1/2" Ice	4.830 5.350	3.650 4.140	0.028 0.065

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			2.000			1" Ice	5.880	4.640	0.109
						2" Ice	6.980	5.700	0.222
BXA-80063/4CF w/ Mount Pipe	C	From Leg	4.000	0.000	124.000	No Ice	4.830	3.650	0.028
			0.000			1/2" Ice	5.350	4.140	0.065
			2.000			1" Ice	5.880	4.640	0.109
						2" Ice	6.980	5.700	0.222
GPS_A	A	From Leg	4.000	0.000	124.000	No Ice	0.255	0.255	0.001
			0.000			1/2" Ice	0.320	0.320	0.005
			3.000			1" Ice	0.393	0.393	0.010
						2" Ice	0.561	0.561	0.025
(2) MX06FRO660-03 w/ Mount Pipe	A	From Leg	4.000	0.000	124.000	No Ice	6.540	5.550	0.103
			0.000			1/2" Ice	7.060	6.050	0.185
			3.000			1" Ice	7.600	6.570	0.277
						2" Ice	8.700	7.650	0.496
(2) MX06FRO660-03 w/ Mount Pipe	B	From Leg	4.000	0.000	124.000	No Ice	6.540	5.550	0.103
			0.000			1/2" Ice	7.060	6.050	0.185
			3.000			1" Ice	7.600	6.570	0.277
						2" Ice	8.700	7.650	0.496
(2) MX06FRO660-03 w/ Mount Pipe	C	From Leg	4.000	0.000	124.000	No Ice	6.540	5.550	0.103
			0.000			1/2" Ice	7.060	6.050	0.185
			3.000			1" Ice	7.600	6.570	0.277
						2" Ice	8.700	7.650	0.496
Sub6 Antenna - VZS01 w/ Mount Pipe	A	From Leg	4.000	0.000	124.000	No Ice	4.915	2.687	0.101
			0.000			1/2" Ice	5.264	3.151	0.141
			3.000			1" Ice	5.623	3.631	0.186
						2" Ice	6.371	4.639	0.294
Sub6 Antenna - VZS01 w/ Mount Pipe	B	From Leg	4.000	0.000	124.000	No Ice	4.915	2.687	0.101
			0.000			1/2" Ice	5.264	3.151	0.141
			3.000			1" Ice	5.623	3.631	0.186
						2" Ice	6.371	4.639	0.294
Sub6 Antenna - VZS01 w/ Mount Pipe	C	From Leg	4.000	0.000	124.000	No Ice	4.915	2.687	0.101
			0.000			1/2" Ice	5.264	3.151	0.141
			3.000			1" Ice	5.623	3.631	0.186
						2" Ice	6.371	4.639	0.294
RFV01U-D1A	A	From Leg	4.000	0.000	124.000	No Ice	1.875	1.250	0.084
			0.000			1/2" Ice	2.045	1.393	0.103
			3.000			1" Ice	2.223	1.543	0.124
						2" Ice	2.601	1.865	0.175
(2) RFV01U-D1A	B	From Leg	4.000	0.000	124.000	No Ice	1.875	1.250	0.084
			0.000			1/2" Ice	2.045	1.393	0.103
			3.000			1" Ice	2.223	1.543	0.124
						2" Ice	2.601	1.865	0.175
RFV01U-D2A	A	From Leg	4.000	0.000	124.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			3.000			1" Ice	2.223	1.284	0.106
						2" Ice	2.601	1.585	0.153
(2) RFV01U-D2A	C	From Leg	4.000	0.000	124.000	No Ice	1.875	1.013	0.070
			0.000			1/2" Ice	2.045	1.145	0.087
			3.000			1" Ice	2.223	1.284	0.106
						2" Ice	2.601	1.585	0.153
RVZDC-6627-PF-48	A	From Leg	4.000	0.000	124.000	No Ice	3.792	2.514	0.032
			0.000			1/2" Ice	4.044	2.727	0.063
			3.000			1" Ice	4.303	2.947	0.099
						2" Ice	4.844	3.417	0.181
4' x 2" Pipe Mount	B	From Leg	4.000	0.000	124.000	No Ice	0.785	0.785	0.029
			0.000			1/2" Ice	1.028	1.028	0.035
			2.000			1" Ice	1.281	1.281	0.044

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice	1.814	1.814	0.072
4' x 2" Pipe Mount	C	From Leg	4.000 0.000 2.000	0.000	124.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.785 1.028 1.281 1.814	0.785 1.028 1.281 1.814	0.029 0.035 0.044 0.072
Platform Mount [LP 1201-1]	C	None		0.000	124.000	No Ice 1/2" Ice 1" Ice 2" Ice	18.380 22.110 25.870 33.470	18.380 22.110 25.870 33.470	2.100 2.652 3.263 4.662
*									
7770.00 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.746 6.179 6.607 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
7770.00 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.746 6.179 6.607 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
7770.00 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.746 6.179 6.607 7.488	4.254 5.014 5.711 7.155	0.055 0.103 0.157 0.287
DMP65R-BU6D w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	11.960 12.700 13.460 15.020	5.970 6.630 7.300 8.690	0.115 0.201 0.298 0.529
DMP65R-BU6D w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	11.960 12.700 13.460 15.020	5.970 6.630 7.300 8.690	0.115 0.201 0.298 0.529
DMP65R-BU6D w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	11.960 12.700 13.460 15.020	5.970 6.630 7.300 8.690	0.115 0.201 0.298 0.529
OPA65R-BU6D w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	12.250 13.000 13.760 15.340	6.050 6.710 7.390 8.790	0.089 0.176 0.275 0.508
OPA65R-BU6D w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	12.250 13.000 13.760 15.340	6.050 6.710 7.390 8.790	0.089 0.176 0.275 0.508
OPA65R-BU6D w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	12.250 13.000 13.760 15.340	6.050 6.710 7.390 8.790	0.089 0.176 0.275 0.508
RRUS 4449 B5/B12	A	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.968 2.144 2.328 2.718	1.408 1.564 1.727 2.075	0.071 0.090 0.111 0.163
RRUS 4449 B5/B12	B	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.968 2.144 2.328 2.718	1.408 1.564 1.727 2.075	0.071 0.090 0.111 0.163
RRUS 4449 B5/B12	C	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice	1.968 2.144 2.328	1.408 1.564 1.727	0.071 0.090 0.111

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice	2.718	2.075	0.163
RRUS 8843 B2/B66A	A	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.639 1.799 1.966 2.323	1.353 1.500 1.655 1.986	0.072 0.090 0.110 0.159
RRUS 8843 B2/B66A	B	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.639 1.799 1.966 2.323	1.353 1.500 1.655 1.986	0.072 0.090 0.110 0.159
RRUS 8843 B2/B66A	C	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.639 1.799 1.966 2.323	1.353 1.500 1.655 1.986	0.072 0.090 0.110 0.159
LGP12104	A	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.443 0.568 0.700 0.987	0.024 0.048 0.080 0.167	0.002 0.005 0.010 0.025
LGP12104	B	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.443 0.568 0.700 0.987	0.024 0.048 0.080 0.167	0.002 0.005 0.010 0.025
LGP12104	C	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.443 0.568 0.700 0.987	0.024 0.048 0.080 0.167	0.002 0.005 0.010 0.025
DC6-48-60-18-8F	A	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.212 1.892 2.105 2.570	1.212 1.892 2.105 2.570	0.033 0.055 0.080 0.138
DC6-48-60-18-8F	B	From Leg	4.000 0.000 2.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.212 1.892 2.105 2.570	1.212 1.892 2.105 2.570	0.033 0.055 0.080 0.138
3' x 2" Pipe Mount	A	From Leg	3.000 0.000 1.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.583 0.770 0.967 1.388	0.583 0.770 0.967 1.388	0.011 0.017 0.024 0.047
3' x 2" Pipe Mount	B	From Leg	3.000 0.000 1.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.583 0.770 0.967 1.388	0.583 0.770 0.967 1.388	0.011 0.017 0.024 0.047
3' x 2" Pipe Mount	C	From Leg	3.000 0.000 1.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.583 0.770 0.967 1.388	0.583 0.770 0.967 1.388	0.011 0.017 0.024 0.047
(2) L 2.5x2.5x3/16x6'	A	From Leg	4.000 0.000 -3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.500 1.918 2.343 3.215	0.005 0.024 0.049 0.123	0.025 0.034 0.048 0.091
(2) L 2.5x2.5x3/16x6'	B	From Leg	4.000 0.000 -3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.500 1.918 2.343 3.215	0.005 0.024 0.049 0.123	0.025 0.034 0.048 0.091
(2) L 2.5x2.5x3/16x6'	C	From Leg	4.000 0.000 -3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.500 1.918 2.343 3.215	0.005 0.024 0.049 0.123	0.025 0.034 0.048 0.091

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
14.5' x 2.375" horizontal mount pipe	A	From Leg	4.000 0.000 3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.740 7.379 9.030 12.371	0.000 1.617 3.247 6.543	0.053 0.072 0.103 0.200
14.5' x 2.375" horizontal mount pipe	B	From Leg	4.000 0.000 3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.740 7.379 9.030 12.371	0.000 1.617 3.247 6.543	0.053 0.072 0.103 0.200
14.5' x 2.375" horizontal mount pipe	C	From Leg	4.000 0.000 3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	5.740 7.379 9.030 12.371	0.000 1.617 3.247 6.543	0.053 0.072 0.103 0.200
7'x2.375" Horizontal Mount Pipe	A	From Face	4.000 0.000 3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.663 2.391 2.825 3.706	1.663 2.391 2.825 3.706	0.026 0.039 0.056 0.105
7'x2.375" Horizontal Mount Pipe	B	From Face	4.000 0.000 3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.663 2.391 2.825 3.706	1.663 2.391 2.825 3.706	0.026 0.039 0.056 0.105
7'x2.375" Horizontal Mount Pipe	C	From Face	4.000 0.000 3.000	0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.663 2.391 2.825 3.706	1.663 2.391 2.825 3.706	0.026 0.039 0.056 0.105
Platform Mount [LP 1201-1]	C	None		0.000	102.000	No Ice 1/2" Ice 1" Ice 2" Ice	18.380 22.110 25.870 33.470	18.380 22.110 25.870 33.470	2.100 2.652 3.263 4.662
*									
KS24019-L112A	A	From Leg	4.000 0.000 1.000	0.000	82.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.141 0.198 0.262 0.415	0.141 0.198 0.262 0.415	0.005 0.007 0.009 0.018
Side Arm Mount [SO 701-1]	A	From Leg	2.000 0.000 0.000	0.000	82.000	No Ice 1/2" Ice 1" Ice 2" Ice	0.850 1.140 1.430 2.010	1.670 2.340 3.010 4.350	0.065 0.079 0.093 0.121
* *									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
SC2-W100AC	A	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 0.000	0.000		138.000	2.200	No Ice 1/2" Ice 1" Ice 2" Ice	3.801 4.095 4.388 4.975	0.022 0.043 0.064 0.106

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft^2	Weight K
*										

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service

Comb. No.	Description
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	150 - 145	Pole	Max Tension	26	0.000	0.000	-0.000
			Max. Compression	26	-9.822	-0.172	1.068
			Max. Mx	8	-4.388	-22.340	0.134
			Max. My	2	-4.385	-0.017	22.601
			Max. Vy	8	4.428	-22.340	0.134
			Max. Vx	2	-4.430	-0.017	22.601
			Max. Torque	8			1.258
L2	145 - 140	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-10.454	-0.203	1.100
			Max. Mx	8	-4.743	-45.598	0.134
			Max. My	2	-4.740	-0.011	45.872
			Max. Vy	8	4.878	-45.598	0.134
			Max. Vx	2	-4.881	-0.011	45.872
			Max. Torque	8			1.258
L3	140 - 135	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-24.522	-3.311	2.606
			Max. Mx	8	-10.517	-90.423	0.431
			Max. My	2	-10.511	-0.926	89.996
			Max. Vy	8	11.293	-90.423	0.431
			Max. Vx	14	11.332	-1.793	-88.113
			Max. Torque	22			-2.489
L4	135 - 130	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-25.262	-3.380	2.674
			Max. Mx	8	-10.983	-148.038	-0.098
			Max. My	2	-10.976	-0.295	147.618
			Max. Vy	8	11.759	-148.038	-0.098
			Max. Vx	14	11.798	-2.472	-145.926
			Max. Torque	22			-2.489
L5	130 - 125	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-26.198	-3.444	3.099
			Max. Mx	8	-11.517	-208.326	-0.538
			Max. My	2	-11.497	0.338	208.491
			Max. Vy	8	12.316	-208.326	-0.538
			Max. Vx	14	12.473	-3.151	-206.772
			Max. Torque	22			-2.666
L6	125 - 120	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-36.216	-3.723	3.774
			Max. Mx	8	-16.091	-292.874	-1.026
			Max. My	2	-16.065	0.791	293.794
			Max. Vy	8	16.470	-292.874	-1.026
			Max. Vx	14	16.666	-3.939	-292.184
			Max. Torque	22			-3.051
L7	120 - 115	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-37.064	-3.798	3.851
			Max. Mx	8	-16.688	-376.331	-1.533
			Max. My	2	-16.662	1.402	378.037
			Max. Vy	8	16.926	-376.331	-1.533
			Max. Vx	14	17.123	-4.601	-376.622
			Max. Torque	22			-3.050
L8	115 - 110	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-37.933	-3.867	3.922
			Max. Mx	8	-17.311	-462.055	-2.042

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	2	-17.286	2.014	464.548
			Max. Vy	8	17.379	-462.055	-2.042
			Max. Vx	14	17.576	-5.259	-463.330
			Max. Torque	22			-3.049
L9	110 - 102.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-38.601	-3.914	3.970
			Max. Mx	8	-17.794	-527.822	-2.425
			Max. My	2	-17.769	2.474	530.905
			Max. Vy	8	17.716	-527.822	-2.425
			Max. Vx	14	17.913	-5.751	-529.835
			Max. Torque	22			-3.047
L10	102.5 - 101.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-49.993	-4.484	4.328
			Max. Mx	8	-23.082	-627.191	-2.840
			Max. My	2	-23.056	2.924	630.987
			Max. Vy	8	22.577	-627.191	-2.840
			Max. Vx	14	22.776	-6.573	-629.909
			Max. Torque	22			-3.212
L11	101.25 - 96.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-51.104	-4.555	4.401
			Max. Mx	8	-23.974	-741.111	-3.358
			Max. My	2	-23.949	3.546	745.707
			Max. Vy	8	23.016	-741.111	-3.358
			Max. Vx	14	23.216	-7.242	-744.827
			Max. Torque	22			-3.212
L12	96.25 - 91.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-52.240	-4.619	4.468
			Max. Mx	8	-24.894	-857.215	-3.876
			Max. My	2	-24.870	4.169	862.608
			Max. Vy	8	23.450	-857.215	-3.876
			Max. Vx	14	23.649	-7.907	-861.928
			Max. Torque	22			-3.210
L13	91.25 - 86.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-53.399	-4.677	4.530
			Max. Mx	8	-25.843	-975.457	-4.395
			Max. My	2	-25.820	4.791	981.647
			Max. Vy	8	23.874	-975.457	-4.395
			Max. Vx	14	24.074	-8.567	-981.167
			Max. Torque	22			-3.208
L14	86.25 - 81.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-54.713	-4.730	5.056
			Max. Mx	8	-26.899	-1095.852	-4.635
			Max. My	2	-26.881	5.413	1103.110
			Max. Vy	8	24.362	-1095.852	-4.635
			Max. Vx	14	24.531	-9.222	-1102.238
			Max. Torque	22			-3.405
L15	81.25 - 76.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-55.920	-4.777	5.107
			Max. Mx	8	-27.906	-1218.592	-5.155
			Max. My	2	-27.889	6.033	1226.493
			Max. Vy	8	24.766	-1218.592	-5.155
			Max. Vx	14	24.935	-9.872	-1225.822
			Max. Torque	22			-3.405
L16	76.25 - 73.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-56.624	-4.800	5.131
			Max. Mx	8	-28.466	-1286.953	-5.440
			Max. My	2	-28.449	6.374	1295.205
			Max. Vy	8	24.991	-1286.953	-5.440
			Max. Vx	14	25.159	-10.227	-1294.645
			Max. Torque	22			-3.402
L17	73.5 - 73.25	Pole	Max Tension	1	0.000	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-56.701	-4.803	5.135
			Max. Mx	8	-28.543	-1293.197	-5.466
			Max. My	2	-28.527	6.405	1301.482
			Max. Vy	8	24.994	-1293.197	-5.466
			Max. Vx	14	25.162	-10.259	-1300.932
			Max. Torque	22			-3.401
L18	73.25 - 68.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.246	-4.841	5.175
			Max. Mx	8	-29.733	-1419.227	-5.985
			Max. My	2	-29.717	7.022	1428.149
			Max. Vy	8	25.437	-1419.227	-5.985
			Max. Vx	14	25.605	-10.901	-1427.801
			Max. Torque	22			-3.401
L19	68.25 - 62	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-58.700	-4.852	5.187
			Max. Mx	8	-30.091	-1457.457	-6.140
			Max. My	2	-30.076	7.207	1466.569
			Max. Vy	8	25.572	-1457.457	-6.140
			Max. Vx	14	25.739	-11.093	-1466.282
			Max. Torque	22			-3.399
L20	62 - 61	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-61.567	-4.893	5.230
			Max. Mx	8	-32.284	-1606.141	-6.735
			Max. My	2	-32.270	7.916	1615.984
			Max. Vy	8	26.157	-1606.141	-6.735
			Max. Vx	14	26.325	-11.828	-1615.930
			Max. Torque	22			-3.398
L21	61 - 56.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-62.956	-4.923	5.263
			Max. Mx	8	-33.447	-1731.150	-7.227
			Max. My	14	-33.432	-12.431	-1741.734
			Max. Vy	8	26.518	-1731.150	-7.227
			Max. Vx	14	26.685	-12.431	-1741.734
			Max. Torque	22			-3.398
L22	56.25 - 56	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-63.043	-4.926	5.266
			Max. Mx	8	-33.531	-1737.777	-7.253
			Max. My	14	-33.516	-12.463	-1748.402
			Max. Vy	8	26.521	-1737.777	-7.253
			Max. Vx	14	26.688	-12.463	-1748.402
			Max. Torque	22			-3.396
L23	56 - 51	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-64.796	-4.953	5.295
			Max. Mx	8	-34.933	-1871.360	-7.770
			Max. My	14	-34.920	-13.093	-1882.818
			Max. Vy	8	26.933	-1871.360	-7.770
			Max. Vx	14	27.100	-13.093	-1882.818
			Max. Torque	22			-3.396
L24	51 - 46	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-66.573	-4.978	5.322
			Max. Mx	8	-36.373	-2006.906	-8.285
			Max. My	14	-36.360	-13.719	-2019.195
			Max. Vy	8	27.318	-2006.906	-8.285
			Max. Vx	14	27.484	-13.719	-2019.195
			Max. Torque	22			-3.395
L25	46 - 41	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-68.378	-4.985	5.325
			Max. Mx	8	-37.838	-2144.334	-8.799
			Max. My	14	-37.827	-14.340	-2157.450
			Max. Vy	8	27.687	-2144.334	-8.799
			Max. Vx	14	27.852	-14.340	-2157.450

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	22			-3.393
L26	41 - 39.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-68.953	-4.991	5.322
			Max. Mx	8	-38.277	-2185.918	-8.953
			Max. My	14	-38.266	-14.526	-2199.282
			Max. Vy	8	27.803	-2185.918	-8.953
			Max. Vx	14	27.968	-14.526	-2199.282
			Max. Torque	22			-3.392
L27	39.5 - 39.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.058	-4.992	5.323
			Max. Mx	8	-38.375	-2192.865	-8.979
			Max. My	14	-38.365	-14.556	-2206.269
			Max. Vy	8	27.800	-2192.865	-8.979
			Max. Vx	14	27.965	-14.556	-2206.269
			Max. Torque	22			-3.392
L28	39.25 - 38.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.268	-4.991	5.322
			Max. Mx	8	-38.536	-2206.772	-9.030
			Max. My	14	-38.526	-14.618	-2220.258
			Max. Vy	8	27.841	-2206.772	-9.030
			Max. Vx	14	28.005	-14.618	-2220.258
			Max. Torque	22			-3.392
L29	38.75 - 38.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.368	-4.992	5.323
			Max. Mx	8	-38.617	-2213.732	-9.056
			Max. My	14	-38.607	-14.649	-2227.260
			Max. Vy	8	27.855	-2213.732	-9.056
			Max. Vx	14	28.020	-14.649	-2227.260
			Max. Torque	22			-3.392
L30	38.5 - 32.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-69.750	-4.991	5.322
			Max. Mx	8	-38.917	-2241.617	-9.158
			Max. My	14	-38.908	-14.772	-2255.310
			Max. Vy	8	27.937	-2241.617	-9.158
			Max. Vx	14	28.102	-14.772	-2255.310
			Max. Torque	22			-3.392
L31	32.25 - 31.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-73.993	-4.991	5.322
			Max. Mx	8	-42.298	-2417.972	-9.796
			Max. My	14	-42.289	-15.542	-2432.692
			Max. Vy	8	28.506	-2417.972	-9.796
			Max. Vx	14	28.670	-15.542	-2432.692
			Max. Torque	22			-3.391
L32	31.25 - 26.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-76.064	-4.991	5.322
			Max. Mx	8	-44.032	-2561.228	-10.306
			Max. My	14	-44.024	-16.153	-2576.768
			Max. Vy	8	28.832	-2561.228	-10.306
			Max. Vx	14	28.996	-16.153	-2576.768
			Max. Torque	22			-3.391
L33	26.25 - 21.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-78.158	-4.991	5.322
			Max. Mx	8	-45.793	-2706.109	-10.815
			Max. My	14	-45.787	-16.759	-2722.464
			Max. Vy	8	29.157	-2706.109	-10.815
			Max. Vx	14	29.319	-16.759	-2722.464
			Max. Torque	22			-3.390
L34	21.25 - 16.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-80.273	-4.991	5.322
			Max. Mx	8	-47.583	-2852.600	-11.320
			Max. My	14	-47.579	-17.360	-2869.765

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vy	8	29.477	-2852.600	-11.320
			Max. Vx	14	29.639	-17.360	-2869.765
			Max. Torque	22			-3.389
L35	16.25 - 11.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.405	-4.991	5.322
			Max. Mx	8	-49.402	-3000.679	-11.824
			Max. My	14	-49.399	-17.956	-3018.650
			Max. Vy	8	29.793	-3000.679	-11.824
			Max. Vx	14	29.954	-17.956	-3018.650
			Max. Torque	22			-3.389
L36	11.25 - 10	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-82.948	-4.978	5.329
			Max. Mx	8	-49.859	-3037.945	-11.949
			Max. My	14	-49.855	-18.104	-3056.116
			Max. Vy	8	29.877	-3037.945	-11.949
			Max. Vx	14	30.038	-18.104	-3056.116
			Max. Torque	22			-3.389
L37	10 - 9.75	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-83.053	-4.975	5.331
			Max. Mx	8	-49.959	-3045.410	-11.974
			Max. My	14	-49.956	-18.133	-3063.621
			Max. Vy	8	29.872	-3045.410	-11.974
			Max. Vx	14	30.033	-18.133	-3063.621
			Max. Torque	22			-3.389
L38	9.75 - 7.25	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.099	-4.949	5.345
			Max. Mx	8	-50.837	-3120.255	-12.224
			Max. My	14	-50.835	-18.428	-3138.866
			Max. Vy	8	30.038	-3120.255	-12.224
			Max. Vx	14	30.198	-18.428	-3138.866
			Max. Torque	22			-3.388
L39	7.25 - 7	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-84.204	-4.947	5.347
			Max. Mx	8	-50.940	-3127.759	-12.250
			Max. My	14	-50.938	-18.457	-3146.410
			Max. Vy	8	30.030	-3127.759	-12.250
			Max. Vx	14	30.190	-18.457	-3146.410
			Max. Torque	22			-3.388
L40	7 - 2	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-86.272	-4.933	5.355
			Max. Mx	8	-52.725	-3278.634	-12.747
			Max. My	14	-52.724	-19.041	-3298.079
			Max. Vy	8	30.347	-3278.634	-12.747
			Max. Vx	14	30.506	-19.041	-3298.079
			Max. Torque	22			-3.388
L41	2 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-87.081	-4.933	5.355
			Max. Mx	8	-53.451	-3339.403	-12.945
			Max. My	14	-53.450	-19.272	-3359.165
			Max. Vy	8	30.467	-3339.403	-12.945
			Max. Vx	14	30.625	-19.272	-3359.165
			Max. Torque	22			-3.388

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	87.081	0.019	6.815
	Max. H_x	20	53.463	30.445	0.134
	Max. H_z	3	40.097	0.116	30.562
	Max. M_x	2	3356.752	0.116	30.562
	Max. M_z	8	3339.403	-30.445	-0.098
	Max. Torsion	10	3.263	-26.395	-15.452
	Min. Vert	19	40.097	26.280	-15.252
	Min. H_x	8	53.463	-30.445	-0.098
	Min. H_z	15	40.097	-0.116	-30.602
	Min. M_x	14	-3359.165	-0.116	-30.602
	Min. M_z	20	-3335.367	30.445	0.134
	Min. Torsion	22	-3.388	26.407	15.414

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	44.553	0.000	-0.000	-1.369	-1.589	-0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	53.463	-0.116	-30.562	-3356.752	15.257	1.532
0.9 Dead+1.0 Wind 0 deg - No Ice	40.097	-0.116	-30.562	-3300.246	15.479	1.486
1.2 Dead+1.0 Wind 30 deg - No Ice	53.463	15.100	-26.422	-2900.572	-1652.488	-0.140
0.9 Dead+1.0 Wind 30 deg - No Ice	40.097	15.100	-26.422	-2851.698	-1624.425	-0.164
1.2 Dead+1.0 Wind 60 deg - No Ice	53.463	26.291	-15.214	-1669.215	-2881.213	-1.869
0.9 Dead+1.0 Wind 60 deg - No Ice	40.097	26.291	-15.214	-1640.920	-2832.620	-1.865
1.2 Dead+1.0 Wind 90 deg - No Ice	53.463	30.445	0.098	12.945	-3339.403	-3.108
0.9 Dead+1.0 Wind 90 deg - No Ice	40.097	30.445	0.098	13.127	-3283.145	-3.077
1.2 Dead+1.0 Wind 120 deg - No Ice	53.463	26.395	15.452	1701.266	-2896.616	-3.263
0.9 Dead+1.0 Wind 120 deg - No Ice	40.097	26.395	15.452	1673.231	-2847.749	-3.214
1.2 Dead+1.0 Wind 150 deg - No Ice	53.463	15.310	26.579	2920.334	-1683.675	-2.752
0.9 Dead+1.0 Wind 150 deg - No Ice	40.097	15.310	26.579	2871.971	-1655.033	-2.697
1.2 Dead+1.0 Wind 180 deg - No Ice	53.463	0.116	30.602	3359.165	-19.272	-1.519
0.9 Dead+1.0 Wind 180 deg - No Ice	40.097	0.116	30.602	3303.498	-18.392	-1.473
1.2 Dead+1.0 Wind 210 deg - No Ice	53.463	-15.109	26.464	2903.187	1649.825	0.116
0.9 Dead+1.0 Wind 210 deg - No Ice	40.097	-15.109	26.464	2855.145	1622.851	0.141
1.2 Dead+1.0 Wind 240 deg - No Ice	53.463	-26.280	15.252	1671.427	2875.447	1.731
0.9 Dead+1.0 Wind 240 deg - No Ice	40.097	-26.280	15.252	1643.959	2828.005	1.727
1.2 Dead+1.0 Wind 270 deg - No Ice	53.463	-30.445	-0.134	-21.586	3335.367	3.095

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
0.9 Dead+1.0 Wind 270 deg - No Ice	40.097	-30.445	-0.134	-20.745	3280.217	3.064
1.2 Dead+1.0 Wind 300 deg - No Ice	53.463	-26.407	-15.414	-1699.035	2894.320	3.388
0.9 Dead+1.0 Wind 300 deg - No Ice	40.097	-26.407	-15.414	-1670.179	2846.516	3.338
1.2 Dead+1.0 Wind 330 deg - No Ice	53.463	-15.300	-26.538	-2917.700	1678.299	2.790
0.9 Dead+1.0 Wind 330 deg - No Ice	40.097	-15.300	-26.538	-2868.509	1650.776	2.734
1.2 Dead+1.0 Ice+1.0 Temp	87.081	0.000	-0.000	-5.355	-4.933	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	87.081	-0.019	-6.815	-814.588	-1.944	0.440
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	87.081	3.379	-5.895	-705.034	-404.850	-0.056
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	87.081	5.877	-3.397	-408.382	-701.306	-0.558
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	87.081	6.801	0.016	-2.928	-811.414	-0.915
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	87.081	5.894	3.438	404.006	-704.036	-0.977
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	87.081	3.415	5.922	698.484	-410.507	-0.818
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	87.081	0.019	6.823	804.899	-8.138	-0.439
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	87.081	-3.381	5.903	695.387	395.060	0.056
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	87.081	-5.875	3.405	398.642	690.856	0.537
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	87.081	-6.801	-0.023	-9.122	801.329	0.914
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	87.081	-5.896	-3.430	-413.744	694.317	0.997
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	87.081	-3.413	-5.914	-708.128	400.130	0.818
Dead+Wind 0 deg - Service	44.553	-0.025	-6.635	-722.996	2.047	0.337
Dead+Wind 30 deg - Service	44.553	3.278	-5.736	-624.872	-356.626	-0.028
Dead+Wind 60 deg - Service	44.553	5.708	-3.303	-360.051	-620.873	-0.407
Dead+Wind 90 deg - Service	44.553	6.609	0.021	1.714	-719.424	-0.683
Dead+Wind 120 deg - Service	44.553	5.730	3.355	364.822	-624.215	-0.721
Dead+Wind 150 deg - Service	44.553	3.324	5.770	627.027	-363.347	-0.610
Dead+Wind 180 deg - Service	44.553	0.025	6.644	721.405	-5.367	-0.336
Dead+Wind 210 deg - Service	44.553	-3.280	5.745	623.321	353.607	0.028
Dead+Wind 240 deg - Service	44.553	-5.705	3.311	358.402	617.188	0.384
Dead+Wind 270 deg - Service	44.553	-6.609	-0.029	-5.701	716.102	0.682
Dead+Wind 300 deg - Service	44.553	-5.733	-3.346	-366.471	621.258	0.743
Dead+Wind 330 deg - Service	44.553	-3.322	-5.761	-628.577	359.726	0.611

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.000	-44.553	0.000	-0.000	44.553	0.000	0.000%
2	-0.116	-53.463	-30.562	0.116	53.463	30.562	0.000%
3	-0.116	-40.097	-30.562	0.116	40.097	30.562	0.000%
4	15.100	-53.463	-26.422	-15.100	53.463	26.422	0.000%
5	15.100	-40.097	-26.422	-15.100	40.097	26.422	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
6	26.291	-53.463	-15.214	-26.291	53.463	15.214	0.000%
7	26.291	-40.097	-15.214	-26.291	40.097	15.214	0.000%
8	30.445	-53.463	0.098	-30.445	53.463	-0.098	0.000%
9	30.445	-40.097	0.098	-30.445	40.097	-0.098	0.000%
10	26.395	-53.463	15.452	-26.395	53.463	-15.452	0.000%
11	26.395	-40.097	15.452	-26.395	40.097	-15.452	0.000%
12	15.310	-53.463	26.579	-15.310	53.463	-26.579	0.000%
13	15.310	-40.097	26.579	-15.310	40.097	-26.579	0.000%
14	0.116	-53.463	30.602	-0.116	53.463	-30.602	0.000%
15	0.116	-40.097	30.602	-0.116	40.097	-30.602	0.000%
16	-15.109	-53.463	26.464	15.109	53.463	-26.464	0.000%
17	-15.109	-40.097	26.464	15.109	40.097	-26.464	0.000%
18	-26.280	-53.463	15.252	26.280	53.463	-15.252	0.000%
19	-26.280	-40.097	15.252	26.280	40.097	-15.252	0.000%
20	-30.445	-53.463	-0.134	30.445	53.463	0.134	0.000%
21	-30.445	-40.097	-0.134	30.445	40.097	0.134	0.000%
22	-26.407	-53.463	-15.414	26.407	53.463	15.414	0.000%
23	-26.407	-40.097	-15.414	26.407	40.097	15.414	0.000%
24	-15.300	-53.463	-26.538	15.300	53.463	26.538	0.000%
25	-15.300	-40.097	-26.538	15.300	40.097	26.538	0.000%
26	0.000	-87.081	0.000	-0.000	87.081	0.000	0.000%
27	-0.019	-87.081	-6.815	0.019	87.081	6.815	0.000%
28	3.379	-87.081	-5.895	-3.379	87.081	5.895	0.000%
29	5.877	-87.081	-3.397	-5.877	87.081	3.397	0.000%
30	6.801	-87.081	0.016	-6.801	87.081	-0.016	0.000%
31	5.894	-87.081	3.438	-5.894	87.081	-3.438	0.000%
32	3.415	-87.081	5.922	-3.415	87.081	-5.922	0.000%
33	0.019	-87.081	6.823	-0.019	87.081	-6.823	0.000%
34	-3.381	-87.081	5.903	3.381	87.081	-5.903	0.000%
35	-5.875	-87.081	3.405	5.875	87.081	-3.405	0.000%
36	-6.801	-87.081	-0.023	6.801	87.081	0.023	0.000%
37	-5.896	-87.081	-3.430	5.896	87.081	3.430	0.000%
38	-3.413	-87.081	-5.914	3.413	87.081	5.914	0.000%
39	-0.025	-44.553	-6.635	0.025	44.553	6.635	0.000%
40	3.278	-44.553	-5.736	-3.278	44.553	5.736	0.000%
41	5.708	-44.553	-3.303	-5.708	44.553	3.303	0.000%
42	6.609	-44.553	0.021	-6.609	44.553	-0.021	0.000%
43	5.730	-44.553	3.355	-5.730	44.553	-3.355	0.000%
44	3.324	-44.553	5.770	-3.324	44.553	-5.770	0.000%
45	0.025	-44.553	6.644	-0.025	44.553	-6.644	0.000%
46	-3.280	-44.553	5.745	3.280	44.553	-5.745	0.000%
47	-5.705	-44.553	3.311	5.705	44.553	-3.311	0.000%
48	-6.609	-44.553	-0.029	6.609	44.553	0.029	0.000%
49	-5.733	-44.553	-3.346	5.733	44.553	3.346	0.000%
50	-3.322	-44.553	-5.761	3.322	44.553	5.761	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000985
2	Yes	6	0.00000001	0.00009569
3	Yes	5	0.00000001	0.00052092
4	Yes	7	0.00000001	0.00021385
5	Yes	6	0.00000001	0.00090433
6	Yes	7	0.00000001	0.00022101

7	Yes	6	0.00000001	0.00093673
8	Yes	6	0.00000001	0.00020582
9	Yes	6	0.00000001	0.00007226
10	Yes	7	0.00000001	0.00020946
11	Yes	6	0.00000001	0.00088505
12	Yes	7	0.00000001	0.00022874
13	Yes	6	0.00000001	0.00096875
14	Yes	6	0.00000001	0.00016400
15	Yes	5	0.00000001	0.00092945
16	Yes	7	0.00000001	0.00021382
17	Yes	6	0.00000001	0.00090652
18	Yes	7	0.00000001	0.00020812
19	Yes	6	0.00000001	0.00088132
20	Yes	6	0.00000001	0.00027829
21	Yes	6	0.00000001	0.00009746
22	Yes	7	0.00000001	0.00023024
23	Yes	6	0.00000001	0.00097634
24	Yes	7	0.00000001	0.00020951
25	Yes	6	0.00000001	0.00088546
26	Yes	5	0.00000001	0.00027626
27	Yes	7	0.00000001	0.00039316
28	Yes	7	0.00000001	0.00045467
29	Yes	7	0.00000001	0.00045654
30	Yes	7	0.00000001	0.00039238
31	Yes	7	0.00000001	0.00044768
32	Yes	7	0.00000001	0.00045206
33	Yes	7	0.00000001	0.00038316
34	Yes	7	0.00000001	0.00043454
35	Yes	7	0.00000001	0.00043240
36	Yes	7	0.00000001	0.00038203
37	Yes	7	0.00000001	0.00045197
38	Yes	7	0.00000001	0.00044801
39	Yes	5	0.00000001	0.00013129
40	Yes	5	0.00000001	0.00043880
41	Yes	5	0.00000001	0.00047696
42	Yes	5	0.00000001	0.00017186
43	Yes	5	0.00000001	0.00041543
44	Yes	5	0.00000001	0.00050787
45	Yes	5	0.00000001	0.00013506
46	Yes	5	0.00000001	0.00043052
47	Yes	5	0.00000001	0.00040591
48	Yes	5	0.00000001	0.00017678
49	Yes	5	0.00000001	0.00051792
50	Yes	5	0.00000001	0.00041262

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	25.041	50	1.446	0.008
L2	145 - 140	23.531	44	1.442	0.007
L3	140 - 135	22.027	44	1.434	0.007
L4	135 - 130	20.535	44	1.420	0.007
L5	130 - 125	19.061	44	1.396	0.006
L6	125 - 120	17.616	44	1.365	0.005
L7	120 - 115	16.207	44	1.325	0.005
L8	115 - 110	14.845	44	1.277	0.004
L9	110 - 102.5	13.537	44	1.222	0.004
L10	106.25 - 101.25	12.595	44	1.176	0.003

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L11	101.25 - 96.25	11.379	44	1.140	0.003
L12	96.25 - 91.25	10.216	44	1.081	0.003
L13	91.25 - 86.25	9.117	44	1.017	0.003
L14	86.25 - 81.25	8.088	44	0.949	0.002
L15	81.25 - 76.25	7.130	44	0.879	0.002
L16	76.25 - 73.5	6.247	44	0.806	0.002
L17	73.5 - 73.25	5.795	44	0.766	0.002
L18	73.25 - 68.25	5.755	44	0.763	0.002
L19	68.25 - 62	4.987	44	0.703	0.001
L20	66.75 - 61	4.769	44	0.685	0.001
L21	61 - 56.25	3.966	44	0.641	0.001
L22	56.25 - 56	3.360	44	0.576	0.001
L23	56 - 51	3.330	44	0.574	0.001
L24	51 - 46	2.759	44	0.516	0.001
L25	46 - 41	2.249	44	0.459	0.001
L26	41 - 39.5	1.799	44	0.401	0.001
L27	39.5 - 39.25	1.676	44	0.383	0.001
L28	39.25 - 38.75	1.656	44	0.381	0.001
L29	38.75 - 38.5	1.616	44	0.375	0.001
L30	38.5 - 32.25	1.597	44	0.373	0.001
L31	37.5 - 31.25	1.520	44	0.362	0.001
L32	31.25 - 26.25	1.068	44	0.324	0.000
L33	26.25 - 21.25	0.756	44	0.272	0.000
L34	21.25 - 16.25	0.498	44	0.222	0.000
L35	16.25 - 11.25	0.292	44	0.171	0.000
L36	11.25 - 10	0.140	44	0.120	0.000
L37	10 - 9.75	0.110	44	0.107	0.000
L38	9.75 - 7.25	0.105	44	0.104	0.000
L39	7.25 - 7	0.058	44	0.076	0.000
L40	7 - 2	0.054	44	0.073	0.000
L41	2 - 0	0.004	44	0.021	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
153.000	Lightning Rod 5/8" x 6'	50	25.041	1.446	0.008	48290
150.000	APXVTM14-C-120 w/ Mount Pipe	50	25.041	1.446	0.008	48290
147.000	4' x 2" Pipe Mount	50	24.134	1.444	0.008	48290
138.000	SC2-W100AC	44	21.429	1.429	0.007	20522
126.000	TMA-DB-T1-6Z-8AB-0Z	44	17.902	1.372	0.006	8402
124.000	BXA-70080/4CF w/ Mount Pipe	44	17.331	1.358	0.005	7632
102.000	7770.00 w/ Mount Pipe	44	11.559	1.146	0.003	5939
82.000	KS24019-L112A	44	7.269	0.890	0.002	4026

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 145	116.606	12	6.741	0.036

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L2	145 - 140	109.580	12	6.727	0.034
L3	140 - 135	102.582	12	6.689	0.033
L4	135 - 130	95.635	12	6.625	0.030
L5	130 - 125	88.776	12	6.518	0.027
L6	125 - 120	82.048	12	6.373	0.025
L7	120 - 115	75.490	12	6.187	0.022
L8	115 - 110	69.147	12	5.962	0.020
L9	110 - 102.5	63.054	12	5.704	0.017
L10	106.25 - 101.25	58.669	12	5.493	0.016
L11	101.25 - 96.25	53.006	12	5.324	0.015
L12	96.25 - 91.25	47.588	12	5.045	0.013
L13	91.25 - 86.25	42.470	12	4.746	0.012
L14	86.25 - 81.25	37.673	12	4.430	0.010
L15	81.25 - 76.25	33.212	12	4.101	0.009
L16	76.25 - 73.5	29.100	12	3.762	0.008
L17	73.5 - 73.25	26.990	12	3.571	0.007
L18	73.25 - 68.25	26.804	12	3.558	0.007
L19	68.25 - 62	23.227	12	3.280	0.006
L20	66.75 - 61	22.210	12	3.196	0.006
L21	61 - 56.25	18.470	12	2.991	0.005
L22	56.25 - 56	15.648	12	2.687	0.005
L23	56 - 51	15.508	12	2.673	0.005
L24	51 - 46	12.849	12	2.407	0.004
L25	46 - 41	10.471	12	2.137	0.003
L26	41 - 39.5	8.376	12	1.866	0.003
L27	39.5 - 39.25	7.802	12	1.786	0.003
L28	39.25 - 38.75	7.709	12	1.773	0.003
L29	38.75 - 38.5	7.525	12	1.749	0.003
L30	38.5 - 32.25	7.433	12	1.736	0.003
L31	37.5 - 31.25	7.075	12	1.685	0.003
L32	31.25 - 26.25	4.974	12	1.507	0.002
L33	26.25 - 21.25	3.521	12	1.269	0.002
L34	21.25 - 16.25	2.316	12	1.032	0.001
L35	16.25 - 11.25	1.360	12	0.795	0.001
L36	11.25 - 10	0.651	12	0.558	0.001
L37	10 - 9.75	0.513	12	0.499	0.001
L38	9.75 - 7.25	0.487	12	0.486	0.001
L39	7.25 - 7	0.268	12	0.353	0.000
L40	7 - 2	0.249	12	0.341	0.000
L41	2 - 0	0.020	12	0.097	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
153.000	Lightning Rod 5/8" x 6'	12	116.606	6.741	0.036	10971
150.000	APXVTM14-C-120 w/ Mount Pipe	12	116.606	6.741	0.036	10971
147.000	4' x 2" Pipe Mount	12	112.389	6.734	0.035	10971
138.000	SC2-W100AC	12	99.795	6.668	0.032	4691
126.000	TMA-DB-T1-6Z-8AB-0Z	12	83.381	6.405	0.025	1878
124.000	BXA-70080/4CF w/ Mount Pipe	12	80.721	6.340	0.024	1701
102.000	7770.00 w/ Mount Pipe	12	53.842	5.352	0.015	1296
82.000	KS24019-L112A	12	33.859	4.151	0.009	871

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	150 - 149	TP22.875x22x0.25	5.000	0.000	0.0	17.650	-3.946	953.081	0.004
	149 - 148					17.791	-4.014	960.690	0.004
	148 - 147					17.931	-4.082	968.298	0.004
	147 - 146					18.072	-4.316	975.907	0.004
	146 - 145					18.213	-4.385	983.516	0.004
L2	145 - 144	TP23.75x22.875x0.25	5.000	0.000	0.0	18.354	-4.455	991.124	0.004
	144 - 143					18.495	-4.525	998.733	0.005
	143 - 142					18.636	-4.596	1006.340	0.005
	142 - 141					18.777	-4.668	1013.950	0.005
	141 - 140					18.918	-4.740	1021.560	0.005
L3	140 - 139	TP24.625x23.75x0.25	5.000	0.000	0.0	19.059	-4.821	1029.170	0.005
	139 - 138					19.200	-4.902	1036.780	0.005
	138 - 137					19.340	-10.364	1044.380	0.010
	137 - 136					19.481	-10.432	1051.990	0.010
	136 - 135					19.622	-10.517	1059.600	0.010
L4	135 - 134	TP25.501x24.625x0.25	5.000	0.000	0.0	19.763	-10.608	1067.210	0.010
	134 - 133					19.904	-10.701	1074.820	0.010
	133 - 132					20.045	-10.772	1082.430	0.010
	132 - 131					20.186	-10.866	1090.040	0.010
	131 - 130					20.327	-10.961	1097.650	0.010
L5	130 - 129	TP26.376x25.501x0.25	5.000	0.000	0.0	20.468	-11.057	1105.250	0.010
	129 - 128					20.609	-11.155	1112.860	0.010
	128 - 127					20.750	-11.253	1120.470	0.010
	127 - 126					20.890	-11.352	1128.080	0.010
	126 - 125					21.031	-11.492	1135.690	0.010
L6	125 - 124	TP27.251x26.376x0.25	5.000	0.000	0.0	21.172	-11.600	1143.300	0.010
	124 - 123					21.313	-15.723	1150.910	0.014
	123 - 122					21.454	-15.835	1158.510	0.014
	122 - 121					21.595	-15.931	1166.120	0.014
	121 - 120					21.736	-16.046	1173.730	0.014
L7	120 - 119	TP28.126x27.251x0.25	5.000	0.000	0.0	21.877	-16.163	1181.340	0.014
	119 - 118					22.018	-16.282	1188.950	0.014
	118 - 117					22.159	-16.401	1196.560	0.014
	117 - 116					22.299	-16.522	1204.170	0.014
	116 - 115					22.440	-16.643	1211.770	0.014
L8	115 - 114	TP29.001x28.126x0.25	5.000	0.000	0.0	22.581	-16.766	1219.380	0.014
	114 - 113					22.722	-16.890	1226.990	0.014
	113 - 112					22.863	-17.015	1234.600	0.014
	112 - 111					23.004	-17.141	1242.210	0.014
	111 - 110					23.145	-17.268	1249.820	0.014
L9	110 - 108.75	TP30.314x29.001x0.25	7.500	0.000	0.0	23.321	-17.426	1259.330	0.014
	108.75 - 107.5					23.497	-17.588	1268.840	0.014
	107.5 - 106.25					23.673	-17.752	1278.350	0.014
	106.25 - 102.5					24.201	-8.397	1306.880	0.006
L10	106.25 - 102.5	TP30.033x29.158x0.313	5.000	0.000	0.0	29.686	-10.259	1736.630	0.006
	102.5 - 101.25					29.906	-23.037	1749.500	0.013
L11	101.25 - 100.25	TP30.908x30.033x0.313	5.000	0.000	0.0	30.082	-23.215	1759.810	0.013
	100.25 - 99.25					30.258	-23.392	1770.110	0.013
	99.25 - 98.25					30.434	-23.571	1780.420	0.013
	98.25 - 97.25					30.611	-23.750	1790.720	0.013
	97.25 - 96.25					30.787	-23.931	1801.020	0.013

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L12	96.25 - 95.25	TP31.783x30.908x0.313	5.000	0.000	0.0	30.963	-24.113	1811.330	0.013
	95.25 - 94.25					31.139	-24.296	1821.630	0.013
	94.25 - 93.25					31.315	-24.480	1831.930	0.013
	93.25 - 92.25					31.491	-24.666	1842.240	0.013
	92.25 - 91.25					31.667	-24.853	1852.540	0.013
L13	91.25 - 90.25	TP32.658x31.783x0.313	5.000	0.000	0.0	31.844	-25.041	1862.840	0.013
	90.25 - 89.25					32.020	-25.230	1873.150	0.013
	89.25 - 88.25					32.196	-25.420	1883.450	0.013
	88.25 - 87.25					32.372	-25.611	1893.760	0.014
	87.25 - 86.25					32.548	-25.804	1904.060	0.014
L14	86.25 - 85.25	TP33.534x32.658x0.313	5.000	0.000	0.0	32.724	-25.998	1914.360	0.014
	85.25 - 84.25					32.900	-26.193	1924.670	0.014
	84.25 - 83.25					33.076	-26.389	1934.970	0.014
	83.25 - 82.25					33.252	-26.586	1945.270	0.014
	82.25 - 81.25					33.429	-26.865	1955.580	0.014
L15	81.25 - 80.25	TP34.409x33.534x0.313	5.000	0.000	0.0	33.605	-27.065	1965.880	0.014
	80.25 - 79.25					33.781	-27.266	1976.180	0.014
	79.25 - 78.25					33.957	-27.468	1986.490	0.014
	78.25 - 77.25					34.133	-27.670	1996.790	0.014
	77.25 - 76.25					34.309	-27.875	2007.100	0.014
L16	76.25 - 74.875	TP34.89x34.409x0.313	2.750	0.000	0.0	34.551	-28.151	2021.260	0.014
	74.875 - 73.5					34.794	-28.436	2035.430	0.014
L17	73.5 - 73.25 (17)	TP34.934x34.89x0.4	0.250	0.000	0.0	44.480	-28.513	2602.060	0.011
L18	73.25 - 72.25	TP35.809x34.934x0.4	5.000	0.000	0.0	44.705	-28.742	2615.240	0.011
	72.25 - 71.25					44.931	-28.981	2628.430	0.011
	71.25 - 70.25					45.156	-29.221	2641.620	0.011
	70.25 - 69.25					45.381	-29.462	2654.810	0.011
	69.25 - 68.25					45.607	-29.705	2668.000	0.011
L19	68.25 - 66.75	TP36.903x35.809x0.4	6.250	0.000	0.0	45.945	-30.064	2687.780	0.011
	66.75 - 62					47.016	-16.685	2750.430	0.006
L20	66.75 - 62	TP36.453x35.447x0.375	5.750	0.000	0.0	43.353	-15.312	2536.140	0.006
	62 - 61					43.564	-32.258	2548.500	0.013
L21	61 - 59.8125	TP37.284x36.453x0.375	4.750	0.000	0.0	43.815	-32.545	2563.190	0.013
	59.8125 - 58.625					44.066	-32.836	2577.870	0.013
	58.625 - 57.4375					44.317	-33.129	2592.550	0.013
	57.4375 - 56.25					44.568	-33.423	2607.230	0.013
L22	56.25 - 56 (22)	TP37.328x37.284x0.456	0.250	0.000	0.0	54.169	-33.508	3168.910	0.011
L23	56 - 55	TP38.203x37.328x0.456	5.000	0.000	0.0	54.426	-33.779	3183.950	0.011
	55 - 54					54.684	-34.061	3198.990	0.011
	54 - 53					54.941	-34.343	3214.040	0.011
	53 - 52					55.198	-34.627	3229.080	0.011
	52 - 51					55.455	-34.912	3244.120	0.011
L24	51 - 50	TP39.078x38.203x0.45	5.000	0.000	0.0	54.958	-35.198	3215.050	0.011
	50 - 49					55.212	-35.485	3229.880	0.011
	49 - 48					55.465	-35.774	3244.720	0.011
	48 - 47					55.719	-36.063	3259.560	0.011
	47 - 46					55.972	-36.354	3274.390	0.011
L25	46 - 45	TP39.954x39.078x0.45	5.000	0.000	0.0	56.226	-36.645	3289.230	0.011
	45 - 44					56.480	-36.938	3304.070	0.011
	44 - 43					56.733	-37.231	3318.900	0.011
	43 - 42					56.987	-37.526	3333.740	0.011
	42 - 41					57.241	-37.822	3348.570	0.011
L26	41 - 39.5 (26)	TP40.216x39.954x0.45	1.500	0.000	0.0	57.621	-38.261	3370.830	0.011
L27	39.5 - 39.25 (27)	TP40.26x40.216x0.488	0.250	0.000	0.0	62.433	-38.359	3652.310	0.011
L28	39.25 - 38.75	TP40.347x40.26x0.488	0.500	0.000	0.0	62.570	-38.521	3660.340	0.011

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
	(28)								
L29	38.75 - 38.5	TP40.391x40.347x0.475	0.250	0.000	0.0	61.052	-38.602	3571.520	0.011
	(29)								
L30	38.5 - 37.5	TP41.485x40.391x0.475	6.250	0.000	0.0	61.319	-38.903	3587.180	0.011
	37.5 - 32.25					62.725	-19.931	3669.400	0.005
L31	37.5 - 32.25	TP40.91x39.816x0.538	6.250	0.000	0.0	69.572	-21.989	4069.960	0.005
	32.25 - 31.25					69.875	-42.285	4087.680	0.010
L32	31.25 - 30.25	TP41.785x40.91x0.538	5.000	0.000	0.0	70.178	-42.629	4105.400	0.010
	30.25 - 29.25					70.481	-42.975	4123.120	0.010
	29.25 - 28.25					70.784	-43.322	4140.850	0.010
	28.25 - 27.25					71.087	-43.671	4158.570	0.011
	27.25 - 26.25					71.390	-44.020	4176.290	0.011
L33	26.25 - 25.25	TP42.66x41.785x0.538	5.000	0.000	0.0	71.692	-44.371	4194.010	0.011
	25.25 - 24.25					71.995	-44.722	4211.740	0.011
	24.25 - 23.25					72.298	-45.075	4229.460	0.011
	23.25 - 22.25					72.601	-45.429	4247.180	0.011
	22.25 - 21.25					72.904	-45.784	4264.900	0.011
L34	21.25 - 20.25	TP43.536x42.66x0.531	5.000	0.000	0.0	72.367	-46.140	4233.450	0.011
	20.25 - 19.25					72.666	-46.497	4250.970	0.011
	19.25 - 18.25					72.966	-46.855	4268.490	0.011
	18.25 - 17.25					73.265	-47.215	4286.000	0.011
	17.25 - 16.25					73.564	-47.576	4303.520	0.011
L35	16.25 - 15.25	TP44.411x43.536x0.525	5.000	0.000	0.0	73.005	-47.938	4270.820	0.011
	15.25 - 14.25					73.301	-48.301	4288.130	0.011
	14.25 - 13.25					73.597	-48.665	4305.440	0.011
	13.25 - 12.25					73.893	-49.030	4322.750	0.011
	12.25 - 11.25					74.189	-49.397	4340.060	0.011
L36	11.25 - 10 (36)	TP44.63x44.411x0.525	1.250	0.000	0.0	74.559	-49.854	4361.690	0.011
L37	10 - 9.75 (37)	TP44.673x44.63x0.463	0.250	0.000	0.0	65.841	-49.955	3851.700	0.013
L38	9.75 - 8.5	TP45.111x44.673x0.463	2.500	0.000	0.0	66.167	-50.386	3870.760	0.013
	8.5 - 7.25					66.493	-50.834	3889.830	0.013
L39	7.25 - 7 (39)	TP45.155x45.111x0.506	0.250	0.000	0.0	72.783	-50.937	4257.780	0.012
L40	7 - 6	TP46.03x45.155x0.5	5.000	0.000	0.0	72.176	-51.284	4222.290	0.012
	6 - 5					72.458	-51.642	4238.780	0.012
	5 - 4					72.740	-52.001	4255.260	0.012
	4 - 3					73.021	-52.362	4271.750	0.012
	3 - 2					73.303	-52.724	4288.240	0.012
L41	2 - 1	TP46.38x46.03x0.5	2.000	0.000	0.0	73.585	-53.086	4304.720	0.012
	1 - 0					73.867	-53.450	4321.210	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	150 - 149	TP22.875x22x0.25	6.108	530.048	0.012	0.000	530.048	0.000
	149 - 148		9.970	537.288	0.019	0.000	537.288	0.000
	148 - 147		13.919	544.556	0.026	0.000	544.556	0.000
	147 - 146		18.215	551.849	0.033	0.000	551.849	0.000
	146 - 145		22.601	559.168	0.040	0.000	559.168	0.000
L2	145 - 144	TP23.75x22.875x0.25	27.075	566.513	0.048	0.000	566.513	0.000
	144 - 143		31.639	573.882	0.055	0.000	573.882	0.000
	143 - 142		36.293	581.275	0.062	0.000	581.275	0.000
	142 - 141		41.037	588.692	0.070	0.000	588.692	0.000
	141 - 140		45.872	596.132	0.077	0.000	596.132	0.000
L3	140 - 139	TP24.625x23.75x0.25	50.799	603.594	0.084	0.000	603.594	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	139 - 138		55.818	611.079	0.091	0.000	611.079	0.000
	138 - 137		68.200	618.585	0.110	0.000	618.585	0.000
	137 - 136		79.180	626.112	0.126	0.000	626.112	0.000
	136 - 135		90.423	633.661	0.143	0.000	633.661	0.000
L4	135 - 134	TP25.501x24.625x0.25	101.761	641.229	0.159	0.000	641.229	0.000
	134 - 133		113.190	648.818	0.174	0.000	648.818	0.000
	133 - 132		124.797	656.425	0.190	0.000	656.425	0.000
	132 - 131		136.536	664.051	0.206	0.000	664.051	0.000
	131 - 130		148.368	671.695	0.221	0.000	671.695	0.000
L5	130 - 129	TP26.376x25.501x0.25	160.294	679.357	0.236	0.000	679.357	0.000
	129 - 128		172.313	687.036	0.251	0.000	687.036	0.000
	128 - 127		184.427	694.732	0.265	0.000	694.732	0.000
	127 - 126		196.633	702.443	0.280	0.000	702.443	0.000
	126 - 125		209.336	710.171	0.295	0.000	710.171	0.000
L6	125 - 124	TP27.251x26.376x0.25	221.849	717.913	0.309	0.000	717.913	0.000
	124 - 123		245.188	725.672	0.338	0.000	725.672	0.000
	123 - 122		261.582	733.443	0.357	0.000	733.443	0.000
	122 - 121		278.181	741.228	0.375	0.000	741.228	0.000
	121 - 120		294.867	749.028	0.394	0.000	749.028	0.000
L7	120 - 119	TP28.126x27.251x0.25	311.642	756.838	0.412	0.000	756.838	0.000
	119 - 118		328.511	764.663	0.430	0.000	764.663	0.000
	118 - 117		345.469	772.497	0.447	0.000	772.497	0.000
	117 - 116		362.520	780.344	0.465	0.000	780.344	0.000
	116 - 115		379.661	788.202	0.482	0.000	788.202	0.000
L8	115 - 114	TP29.001x28.126x0.25	396.893	796.069	0.499	0.000	796.069	0.000
	114 - 113		414.215	803.947	0.515	0.000	803.947	0.000
	113 - 112		431.628	811.833	0.532	0.000	811.833	0.000
	112 - 111		449.131	819.729	0.548	0.000	819.729	0.000
	111 - 110		466.724	827.633	0.564	0.000	827.633	0.000
L9	110 - 108.75	TP30.314x29.001x0.25	488.842	837.525	0.584	0.000	837.525	0.000
	108.75 - 107.5		511.100	847.425	0.603	0.000	847.425	0.000
	107.5 - 106.25		533.496	857.333	0.622	0.000	857.333	0.000
	106.25 - 102.5		276.007	887.125	0.311	0.000	887.125	0.000
L10	106.25 - 102.5	TP30.033x29.158x0.313	325.668	1253.842	0.260	0.000	1253.842	0.000
	102.5 - 101.25		634.030	1269.275	0.500	0.000	1269.275	0.000
L11	101.25 - 100.25	TP30.908x30.033x0.313	656.910	1281.658	0.513	0.000	1281.658	0.000
	100.25 - 99.25		679.878	1294.067	0.525	0.000	1294.067	0.000
	99.25 - 98.25		702.935	1306.492	0.538	0.000	1306.492	0.000
	98.25 - 97.25		726.080	1318.950	0.550	0.000	1318.950	0.000
	97.25 - 96.25		749.313	1331.425	0.563	0.000	1331.425	0.000
L12	96.25 - 95.25	TP31.783x30.908x0.313	772.632	1343.925	0.575	0.000	1343.925	0.000
	95.25 - 94.25		796.038	1356.450	0.587	0.000	1356.450	0.000
	94.25 - 93.25		819.531	1369.000	0.599	0.000	1369.000	0.000
	93.25 - 92.25		843.108	1381.567	0.610	0.000	1381.567	0.000
	92.25 - 91.25		866.775	1394.158	0.622	0.000	1394.158	0.000
L13	91.25 - 90.25	TP32.658x31.783x0.313	890.525	1406.767	0.633	0.000	1406.767	0.000
	90.25 - 89.25		914.358	1419.392	0.644	0.000	1419.392	0.000
	89.25 - 88.25		938.283	1432.042	0.655	0.000	1432.042	0.000
	88.25 - 87.25		962.283	1444.708	0.666	0.000	1444.708	0.000
	87.25 - 86.25		986.375	1457.392	0.677	0.000	1457.392	0.000
L14	86.25 - 85.25	TP33.534x32.658x0.313	1010.550	1470.092	0.687	0.000	1470.092	0.000
	85.25 - 84.25		1034.800	1482.817	0.698	0.000	1482.817	0.000
	84.25 - 83.25		1059.142	1495.550	0.708	0.000	1495.550	0.000
	83.25 - 82.25		1083.558	1508.300	0.718	0.000	1508.300	0.000
	82.25 - 81.25		1107.850	1521.067	0.728	0.000	1521.067	0.000
L15	81.25 - 80.25	TP34.409x33.534x0.313	1132.483	1533.850	0.738	0.000	1533.850	0.000
	80.25 - 79.25		1157.200	1546.642	0.748	0.000	1546.642	0.000
	79.25 - 78.25		1181.992	1559.458	0.758	0.000	1559.458	0.000
	78.25 - 77.25		1206.867	1572.275	0.768	0.000	1572.275	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	77.25 - 76.25		1231.825	1585.117	0.777	0.000	1585.117	0.000
L16	76.25 - 74.875	TP34.89x34.409x0.313	1266.275	1602.783	0.790	0.000	1602.783	0.000
	74.875 - 73.5		1300.867	1620.467	0.803	0.000	1620.467	0.000
L17	73.5 - 73.25 (17)	TP34.934x34.89x0.4	1307.175	2263.183	0.578	0.000	2263.183	0.000
L18	73.25 - 72.25	TP35.809x34.934x0.4	1332.450	2282.692	0.584	0.000	2282.692	0.000
	72.25 - 71.25		1357.817	2302.242	0.590	0.000	2302.242	0.000
	71.25 - 70.25		1383.267	2321.833	0.596	0.000	2321.833	0.000
	70.25 - 69.25		1408.808	2341.467	0.602	0.000	2341.467	0.000
	69.25 - 68.25		1434.433	2361.150	0.608	0.000	2361.150	0.000
L19	68.25 - 66.75	TP36.903x35.809x0.4	1473.025	2390.742	0.616	0.000	2390.742	0.000
	66.75 - 62		844.267	2485.058	0.340	0.000	2485.058	0.000
L20	66.75 - 62	TP36.453x35.447x0.375	752.510	2217.617	0.339	0.000	2217.617	0.000
	62 - 61		1623.125	2235.483	0.726	0.000	2235.483	0.000
L21	61 - 59.8125	TP37.284x36.453x0.375	1654.508	2256.733	0.733	0.000	2256.733	0.000
	59.8125 - 58.625		1686.000	2278.025	0.740	0.000	2278.025	0.000
	58.625 - 57.4375		1717.592	2299.358	0.747	0.000	2299.358	0.000
	57.4375 - 56.25		1749.292	2320.733	0.754	0.000	2320.733	0.000
L22	56.25 - 56 (22)	TP37.328x37.284x0.456	1755.983	2986.133	0.588	0.000	2986.133	0.000
L23	56 - 55	TP38.203x37.328x0.456	1782.783	3014.725	0.591	0.000	3014.725	0.000
	55 - 54		1809.667	3043.450	0.595	0.000	3043.450	0.000
	54 - 53		1836.625	3072.317	0.598	0.000	3072.317	0.000
	53 - 52		1863.667	3098.050	0.602	0.000	3098.050	0.000
	52 - 51		1890.783	3122.867	0.605	0.000	3122.867	0.000
L24	51 - 50	TP39.078x38.203x0.45	1917.983	3093.158	0.620	0.000	3093.158	0.000
	50 - 49		1945.258	3117.567	0.624	0.000	3117.567	0.000
	49 - 48		1972.608	3142.033	0.628	0.000	3142.033	0.000
	48 - 47		2000.042	3166.550	0.632	0.000	3166.550	0.000
	47 - 46		2027.542	3191.125	0.635	0.000	3191.125	0.000
L25	46 - 45	TP39.954x39.078x0.45	2055.125	3215.742	0.639	0.000	3215.742	0.000
	45 - 44		2082.775	3240.408	0.643	0.000	3240.408	0.000
	44 - 43		2110.508	3265.133	0.646	0.000	3265.133	0.000
	43 - 42		2138.308	3289.900	0.650	0.000	3289.900	0.000
	42 - 41		2166.175	3314.717	0.654	0.000	3314.717	0.000
L26	41 - 39.5 (26)	TP40.216x39.954x0.45	2208.125	3352.033	0.659	0.000	3352.033	0.000
L27	39.5 - 39.25 (27)	TP40.26x40.216x0.488	2215.133	3712.808	0.597	0.000	3712.808	0.000
L28	39.25 - 38.75 (28)	TP40.347x40.26x0.488	2229.158	3729.267	0.598	0.000	3729.267	0.000
L29	38.75 - 38.5 (29)	TP40.391x40.347x0.475	2236.175	3619.342	0.618	0.000	3619.342	0.000
L30	38.5 - 37.5	TP41.485x40.391x0.475	2264.300	3646.508	0.621	0.000	3646.508	0.000
	37.5 - 32.25		1168.900	3790.008	0.308	0.000	3790.008	0.000
L31	37.5 - 32.25	TP40.91x39.816x0.538	1244.558	4177.017	0.298	0.000	4177.017	0.000
	32.25 - 31.25		2442.158	4213.717	0.580	0.000	4213.717	0.000
L32	31.25 - 30.25	TP41.785x40.91x0.538	2470.917	4250.575	0.581	0.000	4250.575	0.000
	30.25 - 29.25		2499.742	4287.592	0.583	0.000	4287.592	0.000
	29.25 - 28.25		2528.633	4324.767	0.585	0.000	4324.767	0.000
	28.25 - 27.25		2557.583	4362.108	0.586	0.000	4362.108	0.000
	27.25 - 26.25		2586.608	4399.608	0.588	0.000	4399.608	0.000
L33	26.25 - 25.25	TP42.66x41.785x0.538	2615.692	4437.267	0.589	0.000	4437.267	0.000
	25.25 - 24.25		2644.842	4475.092	0.591	0.000	4475.092	0.000
	24.25 - 23.25		2674.058	4513.075	0.593	0.000	4513.075	0.000
	23.25 - 22.25		2703.333	4551.217	0.594	0.000	4551.217	0.000
	22.25 - 21.25		2732.675	4589.517	0.595	0.000	4589.517	0.000
L34	21.25 - 20.25	TP43.536x42.66x0.531	2762.083	4576.192	0.604	0.000	4576.192	0.000
	20.25 - 19.25		2791.550	4614.375	0.605	0.000	4614.375	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	19.25 - 18.25		2821.083	4652.717	0.606	0.000	4652.717	0.000
	18.25 - 17.25		2850.683	4691.217	0.608	0.000	4691.217	0.000
	17.25 - 16.25		2880.342	4729.875	0.609	0.000	4729.875	0.000
L35	16.25 - 15.25	TP44.411x43.536x0.525	2910.067	4711.200	0.618	0.000	4711.200	0.000
	15.25 - 14.25		2939.858	4744.042	0.620	0.000	4744.042	0.000
	14.25 - 13.25		2969.708	4776.950	0.622	0.000	4776.950	0.000
	13.25 - 12.25		2999.617	4809.925	0.624	0.000	4809.925	0.000
	12.25 - 11.25		3029.600	4842.958	0.626	0.000	4842.958	0.000
L36	11.25 - 10 (36)	TP44.63x44.411x0.525	3067.150	4884.333	0.628	0.000	4884.333	0.000
L37	10 - 9.75 (37)	TP44.673x44.63x0.463	3074.675	4149.558	0.741	0.000	4149.558	0.000
L38	9.75 - 8.5	TP45.111x44.673x0.463	3112.342	4183.517	0.744	0.000	4183.517	0.000
	8.5 - 7.25		3150.100	4217.525	0.747	0.000	4217.525	0.000
L39	7.25 - 7 (39)	TP45.155x45.111x0.506	3157.667	4756.817	0.664	0.000	4756.817	0.000
L40	7 - 6	TP46.03x45.155x0.5	3187.950	4711.858	0.677	0.000	4711.858	0.000
	6 - 5		3218.300	4742.833	0.679	0.000	4742.833	0.000
	5 - 4		3248.700	4773.850	0.681	0.000	4773.850	0.000
	4 - 3		3279.167	4804.925	0.682	0.000	4804.925	0.000
	3 - 2		3309.692	4836.042	0.684	0.000	4836.042	0.000
L41	2 - 1	TP46.38x46.03x0.5	3340.275	4867.208	0.686	0.000	4867.208	0.000
	1 - 0		3370.925	4898.425	0.688	0.000	4898.425	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	150 - 149	TP22.875x22x0.25	3.818	285.924	0.013	0.074	551.431	0.000
	149 - 148		3.905	288.207	0.014	0.074	560.271	0.000
	148 - 147		3.993	290.490	0.014	0.074	569.180	0.000
	147 - 146		4.341	292.772	0.015	0.074	578.160	0.000
	146 - 145		4.430	295.055	0.015	0.074	587.211	0.000
L2	145 - 144	TP23.75x22.875x0.25	4.519	297.337	0.015	0.074	596.332	0.000
	144 - 143		4.609	299.620	0.015	0.074	605.523	0.000
	143 - 142		4.699	301.902	0.016	0.074	614.783	0.000
	142 - 141		4.790	304.185	0.016	0.074	624.115	0.000
	141 - 140		4.881	306.468	0.016	0.074	633.517	0.000
L3	140 - 139	TP24.625x23.75x0.25	4.973	308.750	0.016	0.074	642.989	0.000
	139 - 138		5.066	311.033	0.016	0.074	652.532	0.000
	138 - 137		10.999	313.315	0.035	1.200	662.144	0.002
	137 - 136		11.201	315.598	0.035	2.221	671.827	0.003
	136 - 135		11.293	317.881	0.036	2.221	681.580	0.003
L4	135 - 134	TP25.501x24.625x0.25	11.386	320.163	0.036	2.221	691.403	0.003
	134 - 133		11.479	322.446	0.036	2.221	701.298	0.003
	133 - 132		11.696	324.728	0.036	2.397	711.262	0.003
	132 - 131		11.790	327.011	0.036	2.397	721.296	0.003
	131 - 130		11.883	329.294	0.036	2.397	731.401	0.003
L5	130 - 129	TP26.376x25.501x0.25	11.977	331.576	0.036	2.396	741.576	0.003
	129 - 128		12.070	333.859	0.036	2.396	751.821	0.003
	128 - 127		12.164	336.141	0.036	2.396	762.136	0.003
	127 - 126		12.258	338.424	0.036	2.396	772.522	0.003
	126 - 125		12.471	340.706	0.037	2.541	782.978	0.003
L6	125 - 124	TP27.251x26.376x0.25	12.565	342.989	0.037	2.540	793.504	0.003
	124 - 123		16.354	345.272	0.047	2.931	804.101	0.004
	123 - 122		16.446	347.554	0.047	2.931	814.768	0.004
	122 - 121		16.646	349.837	0.048	2.471	825.505	0.003
	121 - 120		16.738	352.119	0.048	2.471	836.317	0.003

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L7	120 - 119	TP28.126x27.251x0.25	16.829	354.402	0.047	2.471	847.192	0.003
	119 - 118		16.921	356.685	0.047	2.470	858.142	0.003
	118 - 117		17.012	358.967	0.047	2.470	869.158	0.003
	117 - 116		17.103	361.250	0.047	2.470	880.242	0.003
	116 - 115		17.195	363.532	0.047	2.470	891.408	0.003
L8	115 - 114	TP29.001x28.126x0.25	17.285	365.815	0.047	2.470	902.633	0.003
	114 - 113		17.376	368.097	0.047	2.469	913.933	0.003
	113 - 112		17.466	370.380	0.047	2.469	925.300	0.003
	112 - 111		17.557	372.663	0.047	2.469	936.742	0.003
	111 - 110		17.648	374.945	0.047	2.468	948.250	0.003
L9	110 - 108.75	TP30.314x29.001x0.25	17.761	377.798	0.047	2.468	962.742	0.003
	108.75 - 107.5		17.873	380.652	0.047	2.468	977.333	0.003
	107.5 - 106.25		17.985	383.505	0.047	2.467	992.042	0.002
	106.25 - 102.5		8.542	392.065	0.022	1.131	1036.825	0.001
L10	106.25 - 102.5	TP30.033x29.158x0.313	9.864	520.988	0.019	1.335	1351.983	0.001
	102.5 - 101.25		22.850	524.851	0.044	2.657	1372.108	0.002
L11	101.25 - 100.25	TP30.908x30.033x0.313	22.936	527.943	0.043	2.656	1388.325	0.002
	100.25 - 99.25		23.024	531.034	0.043	2.656	1404.625	0.002
	99.25 - 98.25		23.113	534.125	0.043	2.656	1421.025	0.002
	98.25 - 97.25		23.201	537.216	0.043	2.655	1437.525	0.002
	97.25 - 96.25		23.289	540.307	0.043	2.655	1454.108	0.002
L12	96.25 - 95.25	TP31.783x30.908x0.313	23.376	543.398	0.043	2.655	1470.800	0.002
	95.25 - 94.25		23.463	546.489	0.043	2.654	1487.575	0.002
	94.25 - 93.25		23.549	549.580	0.043	2.654	1504.458	0.002
	93.25 - 92.25		23.636	552.671	0.043	2.654	1521.425	0.002
	92.25 - 91.25		23.722	555.762	0.043	2.653	1538.492	0.002
L13	91.25 - 90.25	TP32.658x31.783x0.313	23.807	558.854	0.043	2.653	1555.650	0.002
	90.25 - 89.25		23.892	561.945	0.043	2.652	1572.908	0.002
	89.25 - 88.25		23.977	565.036	0.042	2.652	1590.258	0.002
	88.25 - 87.25		24.061	568.127	0.042	2.652	1607.708	0.002
	87.25 - 86.25		24.146	571.218	0.042	2.651	1625.250	0.002
L14	86.25 - 85.25	TP33.534x32.658x0.313	24.229	574.309	0.042	2.651	1642.892	0.002
	85.25 - 84.25		24.312	577.400	0.042	2.651	1660.617	0.002
	84.25 - 83.25		24.395	580.491	0.042	2.650	1678.450	0.002
	83.25 - 82.25		24.477	583.582	0.042	2.650	1696.375	0.002
	82.25 - 81.25		24.610	586.673	0.042	2.766	1714.392	0.002
L15	81.25 - 80.25	TP34.409x33.534x0.313	24.691	589.764	0.042	2.765	1732.500	0.002
	80.25 - 79.25		24.772	592.856	0.042	2.765	1750.708	0.002
	79.25 - 78.25		24.852	595.947	0.042	2.765	1769.017	0.002
	78.25 - 77.25		24.933	599.038	0.042	2.764	1787.417	0.002
	77.25 - 76.25		25.014	602.129	0.042	2.764	1805.908	0.002
L16	76.25 - 74.875	TP34.89x34.409x0.313	25.128	606.379	0.041	2.763	1831.492	0.002
	74.875 - 73.5		25.237	610.629	0.041	2.763	1857.258	0.001
L17	73.5 - 73.25 (17)	TP34.934x34.89x0.4	25.244	780.617	0.032	2.763	2371.275	0.001
L18	73.25 - 72.25	TP35.809x34.934x0.4	25.336	784.573	0.032	2.762	2395.375	0.001
	72.25 - 71.25		25.423	788.530	0.032	2.762	2419.600	0.001
	71.25 - 70.25		25.510	792.487	0.032	2.762	2443.942	0.001
	70.25 - 69.25		25.596	796.443	0.032	2.761	2468.408	0.001
	69.25 - 68.25		25.683	800.400	0.032	2.761	2492.992	0.001
L19	68.25 - 66.75	TP36.903x35.809x0.4	25.817	806.335	0.032	2.761	2530.100	0.001
	66.75 - 62		14.047	825.128	0.017	1.459	2649.417	0.001
L20	66.75 - 62	TP36.453x35.447x0.375	12.302	760.842	0.016	1.301	2402.842	0.001
	62 - 61		26.403	764.551	0.035	2.760	2426.325	0.001
L21	61 - 59.8125	TP37.284x36.453x0.375	26.495	768.956	0.034	2.759	2454.358	0.001
	59.8125 - 58.625		26.584	773.360	0.034	2.759	2482.558	0.001
	58.625 - 57.4375		26.673	777.765	0.034	2.759	2510.917	0.001

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	57.4375 - 56.25		26.762	782.169	0.034	2.758	2539.433	0.001
L22	56.25 - 56 (22)	TP37.328x37.284x0.456	26.767	950.673	0.028	2.758	3083.375	0.001
L23	56 - 55	TP38.203x37.328x0.456	26.856	955.185	0.028	2.758	3112.717	0.001
	55 - 54		26.936	959.698	0.028	2.758	3142.192	0.001
	54 - 53		27.016	964.211	0.028	2.758	3171.817	0.001
	53 - 52		27.096	968.724	0.028	2.757	3201.575	0.001
	52 - 51		27.177	973.236	0.028	2.757	3231.475	0.001
L24	51 - 50	TP39.078x38.203x0.45	27.254	964.514	0.028	2.757	3217.892	0.001
	50 - 49		27.331	968.965	0.028	2.757	3247.658	0.001
	49 - 48		27.407	973.416	0.028	2.756	3277.567	0.001
	48 - 47		27.484	977.867	0.028	2.756	3307.608	0.001
	47 - 46		27.561	982.318	0.028	2.756	3337.783	0.001
L25	46 - 45	TP39.954x39.078x0.45	27.634	986.769	0.028	2.756	3368.100	0.001
	45 - 44		27.708	991.220	0.028	2.756	3398.550	0.001
	44 - 43		27.781	995.671	0.028	2.755	3429.142	0.001
	43 - 42		27.855	1000.120	0.028	2.755	3459.867	0.001
	42 - 41		27.928	1004.570	0.028	2.755	3490.733	0.001
L26	41 - 39.5 (26)	TP40.216x39.954x0.45	28.044	1011.250	0.028	2.755	3537.292	0.001
L27	39.5 - 39.25 (27)	TP40.26x40.216x0.488	28.041	1095.690	0.026	2.755	3833.267	0.001
L28	39.25 - 38.75 (28)	TP40.347x40.26x0.488	28.081	1098.100	0.026	2.755	3850.158	0.001
L29	38.75 - 38.5 (29)	TP40.391x40.347x0.475	28.096	1071.460	0.026	2.755	3762.033	0.001
L30	38.5 - 37.5	TP41.485x40.391x0.475	28.177	1076.150	0.026	2.754	3795.092	0.001
	37.5 - 32.25		14.036	1100.820	0.013	1.334	3971.058	0.000
L31	37.5 - 32.25	TP40.91x39.816x0.538	14.673	1220.990	0.012	1.420	4317.283	0.000
	32.25 - 31.25		28.745	1226.300	0.023	2.754	4354.967	0.001
L32	31.25 - 30.25	TP41.785x40.91x0.538	28.811	1231.620	0.023	2.754	4392.808	0.001
	30.25 - 29.25		28.876	1236.940	0.023	2.754	4430.817	0.001
	29.25 - 28.25		28.941	1242.250	0.023	2.753	4468.983	0.001
	28.25 - 27.25		29.006	1247.570	0.023	2.753	4507.325	0.001
	27.25 - 26.25		29.070	1252.890	0.023	2.753	4545.825	0.001
L33	26.25 - 25.25	TP42.66x41.785x0.538	29.135	1258.200	0.023	2.753	4584.483	0.001
	25.25 - 24.25		29.200	1263.520	0.023	2.753	4623.308	0.001
	24.25 - 23.25		29.265	1268.840	0.023	2.753	4662.300	0.001
	23.25 - 22.25		29.329	1274.150	0.023	2.753	4701.458	0.001
	22.25 - 21.25		29.394	1279.470	0.023	2.753	4740.775	0.001
L34	21.25 - 20.25	TP43.536x42.66x0.531	29.458	1270.040	0.023	2.753	4726.067	0.001
	20.25 - 19.25		29.522	1275.290	0.023	2.752	4765.258	0.001
	19.25 - 18.25		29.585	1280.550	0.023	2.752	4804.608	0.001
	18.25 - 17.25		29.649	1285.800	0.023	2.752	4844.117	0.001
	17.25 - 16.25		29.713	1291.060	0.023	2.752	4883.800	0.001
L35	16.25 - 15.25	TP44.411x43.536x0.525	29.776	1281.240	0.023	2.752	4867.117	0.001
	15.25 - 14.25		29.839	1286.440	0.023	2.752	4906.650	0.001
	14.25 - 13.25		29.902	1291.630	0.023	2.752	4946.342	0.001
	13.25 - 12.25		29.964	1296.820	0.023	2.752	4986.200	0.001
	12.25 - 11.25		30.027	1302.020	0.023	2.752	5026.208	0.001
L36	11.25 - 10 (36)	TP44.63x44.411x0.525	30.111	1308.510	0.023	2.752	5076.458	0.001
L37	10 - 9.75 (37)	TP44.673x44.63x0.463	30.105	1155.510	0.026	2.752	4493.692	0.001
L38	9.75 - 8.5	TP45.111x44.673x0.463	30.200	1161.230	0.026	2.752	4538.275	0.001
	8.5 - 7.25		30.271	1166.950	0.026	2.752	4583.083	0.001
L39	7.25 - 7 (39)	TP45.155x45.111x0.506	30.262	1277.340	0.024	2.752	5016.625	0.001
L40	7 - 6	TP46.03x45.155x0.5	30.338	1266.690	0.024	2.752	4995.008	0.001
	6 - 5		30.398	1271.630	0.024	2.752	5034.092	0.001
	5 - 4		30.458	1276.580	0.024	2.752	5073.325	0.001
	4 - 3		30.517	1281.530	0.024	2.752	5112.708	0.001
	3 - 2		30.577	1286.470	0.024	2.752	5152.250	0.001
L41	2 - 1	TP46.38x46.03x0.5	30.637	1291.420	0.024	2.752	5191.942	0.001

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
	1 - 0		30.696	1296.360	0.024	2.752	5231.783	0.001

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Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	150 - 149	0.004	0.012	0.000	0.013	0.000	0.016 ✔	1.050	4.8.2 ✔
	149 - 148	0.004	0.019	0.000	0.014	0.000	0.023 ✔	1.050	4.8.2 ✔
	148 - 147	0.004	0.026	0.000	0.014	0.000	0.030 ✔	1.050	4.8.2 ✔
	147 - 146	0.004	0.033	0.000	0.015	0.000	0.038 ✔	1.050	4.8.2 ✔
	146 - 145	0.004	0.040	0.000	0.015	0.000	0.045 ✔	1.050	4.8.2 ✔
L2	145 - 144	0.004	0.048	0.000	0.015	0.000	0.053 ✔	1.050	4.8.2 ✔
	144 - 143	0.005	0.055	0.000	0.015	0.000	0.060 ✔	1.050	4.8.2 ✔
	143 - 142	0.005	0.062	0.000	0.016	0.000	0.067 ✔	1.050	4.8.2 ✔
	142 - 141	0.005	0.070	0.000	0.016	0.000	0.075 ✔	1.050	4.8.2 ✔
	141 - 140	0.005	0.077	0.000	0.016	0.000	0.082 ✔	1.050	4.8.2 ✔
L3	140 - 139	0.005	0.084	0.000	0.016	0.000	0.089 ✔	1.050	4.8.2 ✔
	139 - 138	0.005	0.091	0.000	0.016	0.000	0.096 ✔	1.050	4.8.2 ✔
	138 - 137	0.010	0.110	0.000	0.035	0.002	0.122 ✔	1.050	4.8.2 ✔
	137 - 136	0.010	0.126	0.000	0.035	0.003	0.138 ✔	1.050	4.8.2 ✔
	136 - 135	0.010	0.143	0.000	0.036	0.003	0.154 ✔	1.050	4.8.2 ✔
L4	135 - 134	0.010	0.159	0.000	0.036	0.003	0.170 ✔	1.050	4.8.2 ✔
	134 - 133	0.010	0.174	0.000	0.036	0.003	0.186 ✔	1.050	4.8.2 ✔
	133 - 132	0.010	0.190	0.000	0.036	0.003	0.202 ✔	1.050	4.8.2 ✔
	132 - 131	0.010	0.206	0.000	0.036	0.003	0.217 ✔	1.050	4.8.2 ✔
	131 - 130	0.010	0.221	0.000	0.036	0.003	0.232 ✔	1.050	4.8.2 ✔
L5	130 - 129	0.010	0.236	0.000	0.036	0.003	0.248	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio P_u / ϕP_n	Ratio M_{ux} / ϕM_{nx}	Ratio M_{uy} / ϕM_{ny}	Ratio V_u / ϕV_n	Ratio T_u / ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	129 - 128	0.010	0.251	0.000	0.036	0.003	0.262	1.050	4.8.2
	128 - 127	0.010	0.265	0.000	0.036	0.003	0.277	1.050	4.8.2
	127 - 126	0.010	0.280	0.000	0.036	0.003	0.292	1.050	4.8.2
	126 - 125	0.010	0.295	0.000	0.037	0.003	0.306	1.050	4.8.2
L6	125 - 124	0.010	0.309	0.000	0.037	0.003	0.321	1.050	4.8.2
	124 - 123	0.014	0.338	0.000	0.047	0.004	0.354	1.050	4.8.2
	123 - 122	0.014	0.357	0.000	0.047	0.004	0.373	1.050	4.8.2
	122 - 121	0.014	0.375	0.000	0.048	0.003	0.392	1.050	4.8.2
	121 - 120	0.014	0.394	0.000	0.048	0.003	0.410	1.050	4.8.2
L7	120 - 119	0.014	0.412	0.000	0.047	0.003	0.428	1.050	4.8.2
	119 - 118	0.014	0.430	0.000	0.047	0.003	0.446	1.050	4.8.2
	118 - 117	0.014	0.447	0.000	0.047	0.003	0.463	1.050	4.8.2
	117 - 116	0.014	0.465	0.000	0.047	0.003	0.481	1.050	4.8.2
	116 - 115	0.014	0.482	0.000	0.047	0.003	0.498	1.050	4.8.2
L8	115 - 114	0.014	0.499	0.000	0.047	0.003	0.515	1.050	4.8.2
	114 - 113	0.014	0.515	0.000	0.047	0.003	0.531	1.050	4.8.2
	113 - 112	0.014	0.532	0.000	0.047	0.003	0.548	1.050	4.8.2
	112 - 111	0.014	0.548	0.000	0.047	0.003	0.564	1.050	4.8.2
	111 - 110	0.014	0.564	0.000	0.047	0.003	0.580	1.050	4.8.2
L9	110 - 108.75	0.014	0.584	0.000	0.047	0.003	0.600	1.050	4.8.2
	108.75 - 107.5	0.014	0.603	0.000	0.047	0.003	0.619	1.050	4.8.2
	107.5 - 106.25	0.014	0.622	0.000	0.047	0.002	0.639	1.050	4.8.2
	106.25 - 102.5	0.006	0.311	0.000	0.022	0.001	0.318	1.050	4.8.2
L10	106.25 - 102.5	0.006	0.260	0.000	0.019	0.001	0.266	1.050	4.8.2
	102.5 - 101.25	0.013	0.500	0.000	0.044	0.002	0.515	1.050	4.8.2
L11	101.25 -	0.013	0.513	0.000	0.043	0.002	0.528	1.050	4.8.2

Section No.	Elevation ft	Ratio P_u / ϕP_n	Ratio M_{ux} / ϕM_{nx}	Ratio M_{uy} / ϕM_{ny}	Ratio V_u / ϕV_n	Ratio T_u / ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	100.25						✔		
	100.25 - 99.25	0.013	0.525	0.000	0.043	0.002	0.541 ✔	1.050	4.8.2 ✔
	99.25 - 98.25	0.013	0.538	0.000	0.043	0.002	0.553 ✔	1.050	4.8.2 ✔
	98.25 - 97.25	0.013	0.550	0.000	0.043	0.002	0.566 ✔	1.050	4.8.2 ✔
	97.25 - 96.25	0.013	0.563	0.000	0.043	0.002	0.578 ✔	1.050	4.8.2 ✔
L12	96.25 - 95.25	0.013	0.575	0.000	0.043	0.002	0.590 ✔	1.050	4.8.2 ✔
	95.25 - 94.25	0.013	0.587	0.000	0.043	0.002	0.602 ✔	1.050	4.8.2 ✔
	94.25 - 93.25	0.013	0.599	0.000	0.043	0.002	0.614 ✔	1.050	4.8.2 ✔
	93.25 - 92.25	0.013	0.610	0.000	0.043	0.002	0.626 ✔	1.050	4.8.2 ✔
	92.25 - 91.25	0.013	0.622	0.000	0.043	0.002	0.637 ✔	1.050	4.8.2 ✔
L13	91.25 - 90.25	0.013	0.633	0.000	0.043	0.002	0.648 ✔	1.050	4.8.2 ✔
	90.25 - 89.25	0.013	0.644	0.000	0.043	0.002	0.660 ✔	1.050	4.8.2 ✔
	89.25 - 88.25	0.013	0.655	0.000	0.042	0.002	0.671 ✔	1.050	4.8.2 ✔
	88.25 - 87.25	0.014	0.666	0.000	0.042	0.002	0.682 ✔	1.050	4.8.2 ✔
	87.25 - 86.25	0.014	0.677	0.000	0.042	0.002	0.692 ✔	1.050	4.8.2 ✔
L14	86.25 - 85.25	0.014	0.687	0.000	0.042	0.002	0.703 ✔	1.050	4.8.2 ✔
	85.25 - 84.25	0.014	0.698	0.000	0.042	0.002	0.713 ✔	1.050	4.8.2 ✔
	84.25 - 83.25	0.014	0.708	0.000	0.042	0.002	0.724 ✔	1.050	4.8.2 ✔
	83.25 - 82.25	0.014	0.718	0.000	0.042	0.002	0.734 ✔	1.050	4.8.2 ✔
	82.25 - 81.25	0.014	0.728	0.000	0.042	0.002	0.744 ✔	1.050	4.8.2 ✔
L15	81.25 - 80.25	0.014	0.738	0.000	0.042	0.002	0.754 ✔	1.050	4.8.2 ✔
	80.25 - 79.25	0.014	0.748	0.000	0.042	0.002	0.764 ✔	1.050	4.8.2 ✔
	79.25 - 78.25	0.014	0.758	0.000	0.042	0.002	0.774 ✔	1.050	4.8.2 ✔
	78.25 - 77.25	0.014	0.768	0.000	0.042	0.002	0.783 ✔	1.050	4.8.2 ✔
	77.25 - 76.25	0.014	0.777	0.000	0.042	0.002	0.793 ✔	1.050	4.8.2 ✔
L16	76.25 - 74.875	0.014	0.790	0.000	0.041	0.002	0.806 ✔	1.050	4.8.2 ✔
	74.875 - 73.5	0.014	0.803	0.000	0.041	0.001	0.819	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L17	73.5 - 73.25 (17)	0.011	0.578	0.000	0.032	0.001	0.590	1.050	4.8.2
L18	73.25 - 72.25	0.011	0.584	0.000	0.032	0.001	0.596	1.050	4.8.2
	72.25 - 71.25	0.011	0.590	0.000	0.032	0.001	0.602	1.050	4.8.2
	71.25 - 70.25	0.011	0.596	0.000	0.032	0.001	0.608	1.050	4.8.2
	70.25 - 69.25	0.011	0.602	0.000	0.032	0.001	0.614	1.050	4.8.2
	69.25 - 68.25	0.011	0.608	0.000	0.032	0.001	0.620	1.050	4.8.2
L19	68.25 - 66.75	0.011	0.616	0.000	0.032	0.001	0.628	1.050	4.8.2
	66.75 - 62	0.006	0.340	0.000	0.017	0.001	0.346	1.050	4.8.2
L20	66.75 - 62	0.006	0.339	0.000	0.016	0.001	0.346	1.050	4.8.2
	62 - 61	0.013	0.726	0.000	0.035	0.001	0.740	1.050	4.8.2
L21	61 - 59.8125	0.013	0.733	0.000	0.034	0.001	0.747	1.050	4.8.2
	59.8125 - 58.625	0.013	0.740	0.000	0.034	0.001	0.754	1.050	4.8.2
	58.625 - 57.4375	0.013	0.747	0.000	0.034	0.001	0.761	1.050	4.8.2
	57.4375 - 56.25	0.013	0.754	0.000	0.034	0.001	0.768	1.050	4.8.2
L22	56.25 - 56 (22)	0.011	0.588	0.000	0.028	0.001	0.599	1.050	4.8.2
L23	56 - 55	0.011	0.591	0.000	0.028	0.001	0.603	1.050	4.8.2
	55 - 54	0.011	0.595	0.000	0.028	0.001	0.606	1.050	4.8.2
	54 - 53	0.011	0.598	0.000	0.028	0.001	0.609	1.050	4.8.2
	53 - 52	0.011	0.602	0.000	0.028	0.001	0.613	1.050	4.8.2
	52 - 51	0.011	0.605	0.000	0.028	0.001	0.617	1.050	4.8.2
L24	51 - 50	0.011	0.620	0.000	0.028	0.001	0.632	1.050	4.8.2
	50 - 49	0.011	0.624	0.000	0.028	0.001	0.636	1.050	4.8.2
	49 - 48	0.011	0.628	0.000	0.028	0.001	0.640	1.050	4.8.2
	48 - 47	0.011	0.632	0.000	0.028	0.001	0.644	1.050	4.8.2
	47 - 46	0.011	0.635	0.000	0.028	0.001	0.647	1.050	4.8.2
L25	46 - 45	0.011	0.639	0.000	0.028	0.001	0.651	1.050	4.8.2

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	45 - 44	0.011	0.643	0.000	0.028	0.001	0.655 ✔	1.050	4.8.2 ✔
	44 - 43	0.011	0.646	0.000	0.028	0.001	0.658 ✔	1.050	4.8.2 ✔
	43 - 42	0.011	0.650	0.000	0.028	0.001	0.662 ✔	1.050	4.8.2 ✔
	42 - 41	0.011	0.654	0.000	0.028	0.001	0.666 ✔	1.050	4.8.2 ✔
L26	41 - 39.5 (26)	0.011	0.659	0.000	0.028	0.001	0.671 ✔	1.050	4.8.2 ✔
L27	39.5 - 39.25 (27)	0.011	0.597	0.000	0.026	0.001	0.608 ✔	1.050	4.8.2 ✔
L28	39.25 - 38.75 (28)	0.011	0.598	0.000	0.026	0.001	0.609 ✔	1.050	4.8.2 ✔
L29	38.75 - 38.5 (29)	0.011	0.618	0.000	0.026	0.001	0.629 ✔	1.050	4.8.2 ✔
L30	38.5 - 37.5	0.011	0.621	0.000	0.026	0.001	0.633 ✔	1.050	4.8.2 ✔
	37.5 - 32.25	0.005	0.308	0.000	0.013	0.000	0.314 ✔	1.050	4.8.2 ✔
L31	37.5 - 32.25	0.005	0.298	0.000	0.012	0.000	0.304 ✔	1.050	4.8.2 ✔
	32.25 - 31.25	0.010	0.580	0.000	0.023	0.001	0.590 ✔	1.050	4.8.2 ✔
L32	31.25 - 30.25	0.010	0.581	0.000	0.023	0.001	0.592 ✔	1.050	4.8.2 ✔
	30.25 - 29.25	0.010	0.583	0.000	0.023	0.001	0.594 ✔	1.050	4.8.2 ✔
	29.25 - 28.25	0.010	0.585	0.000	0.023	0.001	0.596 ✔	1.050	4.8.2 ✔
	28.25 - 27.25	0.011	0.586	0.000	0.023	0.001	0.597 ✔	1.050	4.8.2 ✔
	27.25 - 26.25	0.011	0.588	0.000	0.023	0.001	0.599 ✔	1.050	4.8.2 ✔
L33	26.25 - 25.25	0.011	0.589	0.000	0.023	0.001	0.601 ✔	1.050	4.8.2 ✔
	25.25 - 24.25	0.011	0.591	0.000	0.023	0.001	0.602 ✔	1.050	4.8.2 ✔
	24.25 - 23.25	0.011	0.593	0.000	0.023	0.001	0.604 ✔	1.050	4.8.2 ✔
	23.25 - 22.25	0.011	0.594	0.000	0.023	0.001	0.605 ✔	1.050	4.8.2 ✔
	22.25 - 21.25	0.011	0.595	0.000	0.023	0.001	0.607 ✔	1.050	4.8.2 ✔
L34	21.25 - 20.25	0.011	0.604	0.000	0.023	0.001	0.615 ✔	1.050	4.8.2 ✔
	20.25 - 19.25	0.011	0.605	0.000	0.023	0.001	0.616 ✔	1.050	4.8.2 ✔
	19.25 - 18.25	0.011	0.606	0.000	0.023	0.001	0.618 ✔	1.050	4.8.2 ✔
	18.25 - 17.25	0.011	0.608	0.000	0.023	0.001	0.619 ✔	1.050	4.8.2 ✔

Section No.	Elevation ft	Ratio $P_u/\phi P_n$	Ratio $M_{ux}/\phi M_{nx}$	Ratio $M_{uy}/\phi M_{ny}$	Ratio $V_u/\phi V_n$	Ratio $T_u/\phi T_n$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	17.25 - 16.25	0.011	0.609	0.000	0.023	0.001	0.621	1.050	4.8.2
L35	16.25 - 15.25	0.011	0.618	0.000	0.023	0.001	0.629	1.050	4.8.2
	15.25 - 14.25	0.011	0.620	0.000	0.023	0.001	0.632	1.050	4.8.2
	14.25 - 13.25	0.011	0.622	0.000	0.023	0.001	0.634	1.050	4.8.2
	13.25 - 12.25	0.011	0.624	0.000	0.023	0.001	0.636	1.050	4.8.2
	12.25 - 11.25	0.011	0.626	0.000	0.023	0.001	0.638	1.050	4.8.2
L36	11.25 - 10 (36)	0.011	0.628	0.000	0.023	0.001	0.640	1.050	4.8.2
L37	10 - 9.75 (37)	0.013	0.741	0.000	0.026	0.001	0.755	1.050	4.8.2
L38	9.75 - 8.5	0.013	0.744	0.000	0.026	0.001	0.758	1.050	4.8.2
	8.5 - 7.25	0.013	0.747	0.000	0.026	0.001	0.761	1.050	4.8.2
L39	7.25 - 7 (39)	0.012	0.664	0.000	0.024	0.001	0.676	1.050	4.8.2
L40	7 - 6	0.012	0.677	0.000	0.024	0.001	0.689	1.050	4.8.2
	6 - 5	0.012	0.679	0.000	0.024	0.001	0.691	1.050	4.8.2
	5 - 4	0.012	0.681	0.000	0.024	0.001	0.693	1.050	4.8.2
	4 - 3	0.012	0.682	0.000	0.024	0.001	0.695	1.050	4.8.2
	3 - 2	0.012	0.684	0.000	0.024	0.001	0.697	1.050	4.8.2
L41	2 - 1	0.012	0.686	0.000	0.024	0.001	0.699	1.050	4.8.2
	1 - 0	0.012	0.688	0.000	0.024	0.001	0.701	1.050	4.8.2

Section Capacity Table

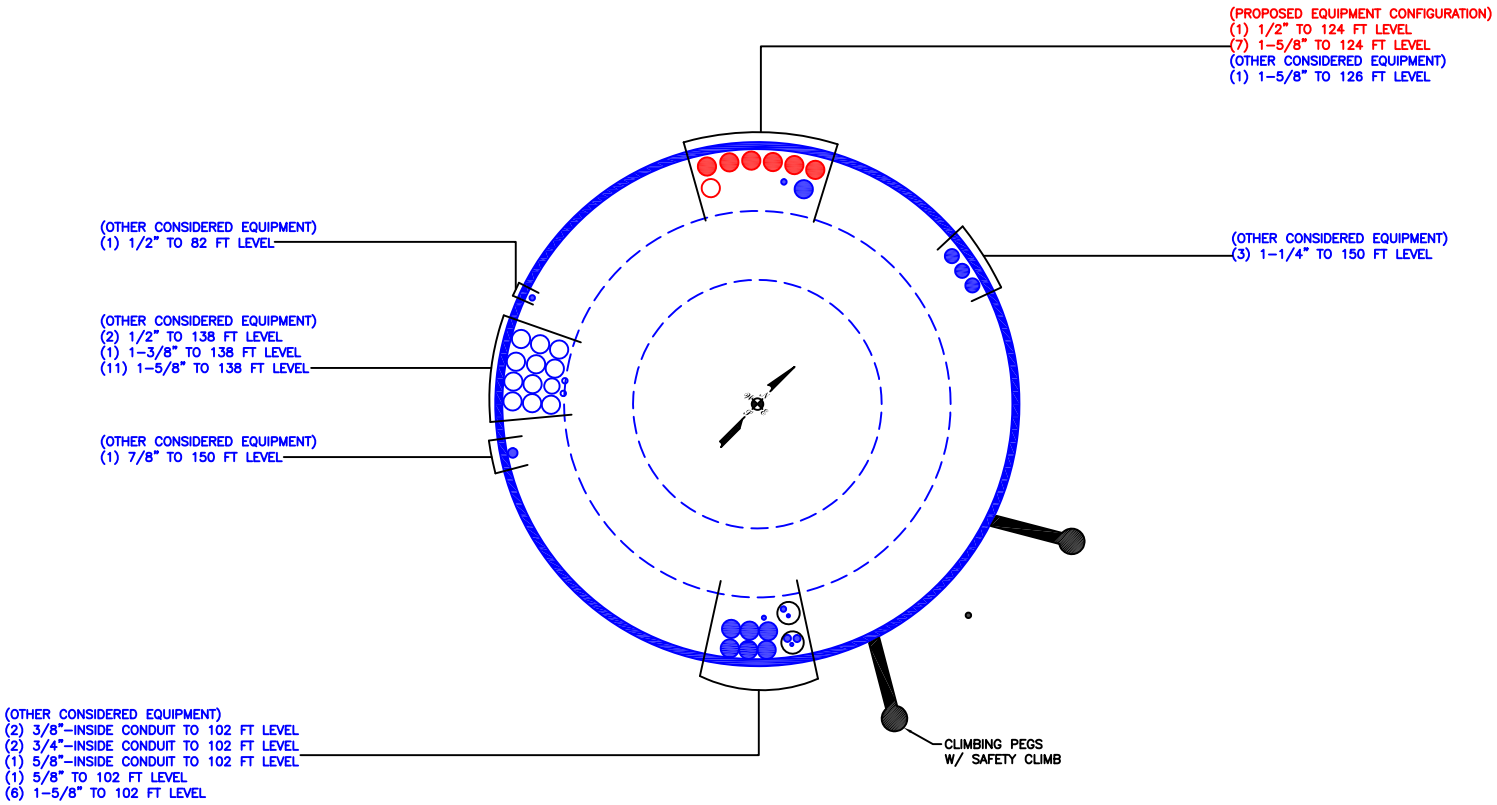
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 145	Pole	TP22.875x22x0.25	1	-4.385	1032.692	**	**
L2	145 - 140	Pole	TP23.75x22.875x0.25	2	-4.740	1072.638	**	**
L3	140 - 135	Pole	TP24.625x23.75x0.25	3	-10.517	1112.580	**	**
L4	135 - 130	Pole	TP25.501x24.625x0.25	4	-10.961	1152.532	**	**
L5	130 - 125	Pole	TP26.376x25.501x0.25	5	-11.492	1192.474	**	**

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	øP$_{allow}$ K	% Capacity	Pass Fail
L6	125 - 120	Pole	TP27.251x26.376x0.25	6	-16.046	1232.416	**	**
L7	120 - 115	Pole	TP28.126x27.251x0.25	7	-16.643	1272.358	**	**
L8	115 - 110	Pole	TP29.001x28.126x0.25	8	-17.268	1312.311	**	**
L9	110 - 102.5	Pole	TP30.314x29.001x0.25	9	-17.752	1342.267	**	**
L10	102.5 - 101.25	Pole	TP30.033x29.158x0.313	10	-23.037	1836.975	**	**
L11	101.25 - 96.25	Pole	TP30.908x30.033x0.313	11	-23.931	1891.071	**	**
L12	96.25 - 91.25	Pole	TP31.783x30.908x0.313	12	-24.853	1945.167	**	**
L13	91.25 - 86.25	Pole	TP32.658x31.783x0.313	13	-25.804	1999.263	**	**
L14	86.25 - 81.25	Pole	TP33.534x32.658x0.313	14	-26.865	2053.359	**	**
L15	81.25 - 76.25	Pole	TP34.409x33.534x0.313	15	-27.875	2107.455	**	**
L16	76.25 - 73.5	Pole	TP34.89x34.409x0.313	16	-28.436	2137.201	**	**
L17	73.5 - 73.25	Pole	TP34.934x34.89x0.4	17	-28.513	2732.163	**	**
L18	73.25 - 68.25	Pole	TP35.809x34.934x0.4	18	-29.705	2801.400	**	**
L19	68.25 - 62	Pole	TP36.903x35.809x0.4	19	-30.064	2822.169	**	**
L20	62 - 61	Pole	TP36.453x35.447x0.375	20	-32.258	2675.925	**	**
L21	61 - 56.25	Pole	TP37.284x36.453x0.375	21	-33.423	2737.591	**	**
L22	56.25 - 56	Pole	TP37.328x37.284x0.456	22	-33.508	3327.355	**	**
L23	56 - 51	Pole	TP38.203x37.328x0.456	23	-34.912	3406.326	**	**
L24	51 - 46	Pole	TP39.078x38.203x0.45	24	-36.354	3438.109	**	**
L25	46 - 41	Pole	TP39.954x39.078x0.45	25	-37.822	3515.998	**	**
L26	41 - 39.5	Pole	TP40.216x39.954x0.45	26	-38.261	3539.371	**	**
L27	39.5 - 39.25	Pole	TP40.26x40.216x0.488	27	-38.359	3834.925	**	**
L28	39.25 - 38.75	Pole	TP40.347x40.26x0.488	28	-38.521	3843.357	**	**
L29	38.75 - 38.5	Pole	TP40.391x40.347x0.475	29	-38.602	3750.096	**	**
L30	38.5 - 32.25	Pole	TP41.485x40.391x0.475	30	-38.903	3766.539	**	**
L31	32.25 - 31.25	Pole	TP40.91x39.816x0.538	31	-42.285	4292.064	**	**
L32	31.25 - 26.25	Pole	TP41.785x40.91x0.538	32	-44.020	4385.104	**	**
L33	26.25 - 21.25	Pole	TP42.66x41.785x0.538	33	-45.784	4478.145	**	**
L34	21.25 - 16.25	Pole	TP43.536x42.66x0.531	34	-47.576	4518.696	**	**
L35	16.25 - 11.25	Pole	TP44.411x43.536x0.525	35	-49.397	4557.063	**	**
L36	11.25 - 10	Pole	TP44.63x44.411x0.525	36	-49.854	4579.774	**	**
L37	10 - 9.75	Pole	TP44.673x44.63x0.463	37	-49.955	4044.285	**	**
L38	9.75 - 7.25	Pole	TP45.111x44.673x0.463	38	-50.834	4084.321	**	**
L39	7.25 - 7	Pole	TP45.155x45.111x0.506	39	-50.937	4470.669	**	**
L40	7 - 2	Pole	TP46.03x45.155x0.5	40	-52.724	4502.652	**	**
L41	2 - 0	Pole	TP46.38x46.03x0.5	41	-53.450	4537.270	**	**
							Summary	
						Pole (L16)	**	**
						RATING =	**	**

** Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT:876315

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 876315

Work Order:

Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	150	47.5	3.75	12	22	30.314	0.25	Auto	A607-60
2	106.25	44.25	4.75	12	29.16	36.903	0.3125	Auto	A607-65
3	66.75	34.5	5.25	12	35.45	41.485	0.375	Auto	A607-65
4	37.5	37.5	0	12	39.82	46.38	0.4375	Auto	A607-65

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12
1	0	10	plate	PL 4x1 (5TB)	1			E2									
2	0	39.5	plate	Plate 4x1 (7TB)	2								E2				E2
3	7.25	38.75	plate	Plate 4x1 (7TB)	1				E2								
4	38.75	56.25	plate	Plate 4x0.75 (5TB)	3			E2				E2				E2	
5	66	73.5	plate	Plate 4x0.75 (5TB)	3				E2				E2				E2
6																	
7																	
8																	
9																	
10																	

Reinforcement Details

	B (in)	H (in)	Gross Area (in^2)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	4	1	4	0.5	PC 8.8 - M20 (100)	15	PC 8.8 - M20 (100)	15.000	20.000	2.750	1.1875	A514-GR100
2	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A514-GR100
3	4	1	4	0.5	PC 8.8 - M20 (100)	21	PC 8.8 - M20 (100)	21.000	20.000	2.750	1.1875	A514-GR100
4	4	0.75	3	0.375	PC 8.8 - M20 (100)	15	PC 8.8 - M20 (100)	15.000	15.000	2.063	1.1875	A514-GR100
5	4	0.75	3	0.375	PC 8.8 - M20 (100)	15	PC 8.8 - M20 (100)	15.000	15.000	2.063	1.1875	A514-GR100

Connection Details for Custom Reinforcements

Reinforcement	End	# Bolts	N or X	Bolt Spacing (in)	Edge Dist (in)	Weld Grade (ksi)	Transverse (Horiz.) Weld Type	Horiz. Weld Length (in)	Horiz. Groove Depth (in)	Horiz. Groove Angle (deg)	Horiz. Fillet Size (in)	Vertical Weld Length (in)	Vertical Fillet Size (in)	Rev H Connection Capacity (kip)
PL 4x1 (5TB)	Top	5	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	5	N	3	3	-	-	-	-	-	-	-	-	-
Plate 4x0.75 (5TB)	Top	5	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	5	N	3	3	-	-	-	-	-	-	-	-	-
Plate 4x1 (7TB)	Top	7	N	3	3	-	-	-	-	-	-	-	-	-
	Bottom	7	N	3	3	-	-	-	-	-	-	-	-	-

TNX Geometry Input

Increment (ft): 5 Export to TNX

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	150 - 145	5		12	22.000	22.875	0.25	A607-60	1.000
2	145 - 140	5		12	22.875	23.750	0.25	A607-60	1.000
3	140 - 135	5		12	23.750	24.625	0.25	A607-60	1.000
4	135 - 130	5		12	24.625	25.501	0.25	A607-60	1.000
5	130 - 125	5		12	25.501	26.376	0.25	A607-60	1.000
6	125 - 120	5		12	26.376	27.251	0.25	A607-60	1.000
7	120 - 115	5		12	27.251	28.126	0.25	A607-60	1.000
8	115 - 110	5		12	28.126	29.001	0.25	A607-60	1.000
9	110 - 106.25	7.5	3.75	12	29.001	30.314	0.25	A607-60	1.000
10	106.25 - 101.25	5		12	29.158	30.033	0.3125	A607-65	1.000
11	101.25 - 96.25	5		12	30.033	30.908	0.3125	A607-65	1.000
12	96.25 - 91.25	5		12	30.908	31.783	0.3125	A607-65	1.000
13	91.25 - 86.25	5		12	31.783	32.658	0.3125	A607-65	1.000
14	86.25 - 81.25	5		12	32.658	33.534	0.3125	A607-65	1.000
15	81.25 - 76.25	5		12	33.534	34.409	0.3125	A607-65	1.000
16	76.25 - 73.5	2.75		12	34.409	34.890	0.3125	A607-65	1.000
17	73.5 - 73.25	0.25		12	34.890	34.934	0.4	A607-65	0.986
18	73.25 - 68.25	5		12	34.934	35.809	0.4	A607-65	0.981
19	68.25 - 66.75	6.25	4.75	12	35.809	36.903	0.4	A607-65	0.979
20	66.75 - 61	5.75		12	35.447	36.453	0.375	A607-65	1.000
21	61 - 56.25	4.75		12	36.453	37.284	0.375	A607-65	1.000
22	56.25 - 56	0.25		12	37.284	37.328	0.45625	A607-65	0.990
23	56 - 51	5		12	37.328	38.203	0.45625	A607-65	0.986
24	51 - 46	5		12	38.203	39.078	0.45	A607-65	0.996
25	46 - 41	5		12	39.078	39.954	0.45	A607-65	0.992
26	41 - 39.5	1.5		12	39.954	40.216	0.45	A607-65	0.991
27	39.5 - 39.25	0.25		12	40.216	40.260	0.4875	A607-65	1.044
28	39.25 - 38.75	0.5		12	40.260	40.347	0.4875	A607-65	1.043
29	38.75 - 38.5	0.25		12	40.347	40.391	0.475	A607-65	0.988
30	38.5 - 37.5	6.25	5.25	12	40.391	41.485	0.475	A607-65	0.987
31	37.5 - 31.25	6.25		12	39.816	40.910	0.5375	A607-65	0.988
32	31.25 - 26.25	5		12	40.910	41.785	0.5375	A607-65	0.984
33	26.25 - 21.25	5		12	41.785	42.660	0.5375	A607-65	0.981
34	21.25 - 16.25	5		12	42.660	43.536	0.53125	A607-65	0.989
35	16.25 - 11.25	5		12	43.536	44.411	0.525	A607-65	0.997
36	11.25 - 10	1.25		12	44.411	44.630	0.525	A607-65	0.996
37	10 - 9.75	0.25		12	44.630	44.673	0.4625	A607-65	1.068
38	9.75 - 7.25	2.5		12	44.673	45.111	0.4625	A607-65	1.067
39	7.25 - 7	0.25		12	45.111	45.155	0.50625	A607-65	0.976
40	7 - 2	5		12	45.155	46.030	0.5	A607-65	0.985
41	2 - 0	2		12	46.030	46.380	0.5	A607-65	0.985

TNX Section Forces

Increment (ft): 5

	Section Height (ft)	TNX Output P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	150 - 145	4.38	22.60	4.43
2	145 - 140	4.74	45.87	4.88
3	140 - 135	10.52	90.42	11.29
4	135 - 130	10.96	148.37	11.88
5	130 - 125	11.49	209.34	12.47
6	125 - 120	16.05	294.87	16.74
7	120 - 115	16.64	379.66	17.19
8	115 - 110	17.27	466.72	17.65
9	110 - 106.25	17.75	533.50	17.98
10	106.25 - 101.25	23.04	634.03	22.85
11	101.25 - 96.25	23.93	749.31	23.29
12	96.25 - 91.25	24.85	866.78	23.72
13	91.25 - 86.25	25.80	986.37	24.15
14	86.25 - 81.25	26.87	1107.85	24.61
15	81.25 - 76.25	27.87	1231.83	25.01
16	76.25 - 73.5	28.44	1300.87	25.24
17	73.5 - 73.25	28.51	1307.17	25.24
18	73.25 - 68.25	29.70	1434.43	25.68
19	68.25 - 66.75	30.06	1473.03	25.82
20	66.75 - 61	32.26	1623.12	26.40
21	61 - 56.25	33.42	1749.30	26.76
22	56.25 - 56	33.51	1755.98	26.77
23	56 - 51	34.91	1890.78	27.18
24	51 - 46	36.35	2027.54	27.56
25	46 - 41	37.82	2166.18	27.93
26	41 - 39.5	38.26	2208.12	28.04
27	39.5 - 39.25	38.36	2215.13	28.04
28	39.25 - 38.75	38.52	2229.16	28.08
29	38.75 - 38.5	38.60	2236.18	28.10
30	38.5 - 37.5	38.90	2264.30	28.18
31	37.5 - 31.25	42.28	2442.16	28.75
32	31.25 - 26.25	44.02	2586.61	29.07
33	26.25 - 21.25	45.78	2732.68	29.39
34	21.25 - 16.25	47.58	2880.35	29.71
35	16.25 - 11.25	49.40	3029.60	30.03
36	11.25 - 10	49.85	3067.15	30.11
37	10 - 9.75	49.95	3074.68	30.11
38	9.75 - 7.25	50.83	3150.10	30.27
39	7.25 - 7	50.94	3157.66	30.26
40	7 - 2	52.72	3309.69	30.58
41	2 - 0	53.45	3370.92	30.70

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
150 - 145	Pole	TP22.875x22x0.25	Pole	4.3%	Pass
145 - 140	Pole	TP23.75x22.875x0.25	Pole	7.8%	Pass
140 - 135	Pole	TP24.625x23.75x0.25	Pole	14.6%	Pass
135 - 130	Pole	TP25.501x24.625x0.25	Pole	22.1%	Pass
130 - 125	Pole	TP26.376x25.501x0.25	Pole	29.1%	Pass
125 - 120	Pole	TP27.251x26.376x0.25	Pole	38.9%	Pass
120 - 115	Pole	TP28.126x27.251x0.25	Pole	47.3%	Pass
115 - 110	Pole	TP29.001x28.126x0.25	Pole	55.1%	Pass
110 - 106.25	Pole	TP30.314x29.001x0.25	Pole	60.6%	Pass
106.25 - 101.25	Pole	TP30.033x29.158x0.3125	Pole	48.9%	Pass
101.25 - 96.25	Pole	TP30.908x30.033x0.3125	Pole	54.9%	Pass
96.25 - 91.25	Pole	TP31.783x30.908x0.3125	Pole	60.5%	Pass
91.25 - 86.25	Pole	TP32.658x31.783x0.3125	Pole	65.7%	Pass
86.25 - 81.25	Pole	TP33.534x32.658x0.3125	Pole	70.7%	Pass
81.25 - 76.25	Pole	TP34.409x33.534x0.3125	Pole	75.3%	Pass
76.25 - 73.5	Pole	TP34.89x34.409x0.3125	Pole	77.7%	Pass
73.5 - 73.25	Pole + Reinf.	TP34.934x34.89x0.4	Reinf. 5 Tension Rupture	70.5%	Pass
73.25 - 68.25	Pole + Reinf.	TP35.809x34.934x0.4	Reinf. 5 Tension Rupture	73.9%	Pass
68.25 - 66.75	Pole + Reinf.	TP36.903x35.809x0.4	Reinf. 5 Tension Rupture	74.9%	Pass
66.75 - 61	Pole	TP36.453x35.447x0.375	Pole	70.3%	Pass
61 - 56.25	Pole	TP37.284x36.453x0.375	Pole	72.9%	Pass
56.25 - 56	Pole + Reinf.	TP37.328x37.284x0.4563	Reinf. 4 Tension Rupture	72.5%	Pass
56 - 51	Pole + Reinf.	TP38.203x37.328x0.4563	Reinf. 4 Tension Rupture	74.8%	Pass
51 - 46	Pole + Reinf.	TP39.078x38.203x0.45	Reinf. 4 Tension Rupture	76.9%	Pass
46 - 41	Pole + Reinf.	TP39.954x39.078x0.45	Reinf. 4 Tension Rupture	78.8%	Pass
41 - 39.5	Pole + Reinf.	TP40.216x39.954x0.45	Reinf. 4 Tension Rupture	79.3%	Pass
39.5 - 39.25	Pole + Reinf.	TP40.26x40.216x0.4875	Reinf. 4 Tension Rupture	76.4%	Pass
39.25 - 38.75	Pole + Reinf.	TP40.347x40.26x0.4875	Reinf. 4 Tension Rupture	76.6%	Pass
38.75 - 38.5	Pole + Reinf.	TP40.391x40.347x0.475	Reinf. 3 Tension Rupture	75.9%	Pass
38.5 - 37.5	Pole + Reinf.	TP41.485x40.391x0.475	Reinf. 3 Tension Rupture	76.2%	Pass
37.5 - 31.25	Pole + Reinf.	TP40.91x39.816x0.5375	Reinf. 3 Tension Rupture	71.8%	Pass
31.25 - 26.25	Pole + Reinf.	TP41.785x40.91x0.5375	Reinf. 3 Tension Rupture	73.1%	Pass
26.25 - 21.25	Pole + Reinf.	TP42.66x41.785x0.5375	Reinf. 3 Tension Rupture	74.3%	Pass
21.25 - 16.25	Pole + Reinf.	TP43.536x42.66x0.5313	Reinf. 3 Tension Rupture	75.4%	Pass
16.25 - 11.25	Pole + Reinf.	TP44.411x43.536x0.525	Reinf. 3 Tension Rupture	76.4%	Pass
11.25 - 10	Pole + Reinf.	TP44.63x44.411x0.525	Reinf. 3 Tension Rupture	76.6%	Pass
10 - 9.75	Pole + Reinf.	TP44.673x44.63x0.4625	Pole	76.1%	Pass
9.75 - 7.25	Pole + Reinf.	TP45.111x44.673x0.4625	Pole	76.8%	Pass
7.25 - 7	Pole + Reinf.	TP45.155x45.111x0.5063	Reinf. 2 Tension Rupture	77.5%	Pass
7 - 2	Pole + Reinf.	TP46.03x45.155x0.5	Reinf. 2 Tension Rupture	78.3%	Pass
2 - 0	Pole + Reinf.	TP46.38x46.03x0.5	Reinf. 2 Tension Rupture	78.6%	Pass
				Summary	
			Pole	77.7%	Pass
			Reinforcement	79.3%	Pass
			Overall	79.3%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity*					
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5
150 - 145	1192	n/a	1192	18.19	n/a	18.19	4.3%					
145 - 140	1335	n/a	1335	18.89	n/a	18.89	7.8%					
140 - 135	1490	n/a	1490	19.59	n/a	19.59	14.6%					
135 - 130	1656	n/a	1656	20.30	n/a	20.30	22.1%					
130 - 125	1835	n/a	1835	21.00	n/a	21.00	29.1%					
125 - 120	2025	n/a	2025	21.70	n/a	21.70	38.9%					
120 - 115	2229	n/a	2229	22.41	n/a	22.41	47.3%					
115 - 110	2445	n/a	2445	23.11	n/a	23.11	55.1%					
110 - 106.25	2617	n/a	2617	23.64	n/a	23.64	60.6%					
106.25 - 101.25	3376	n/a	3376	29.86	n/a	29.86	48.9%					
101.25 - 96.25	3683	n/a	3683	30.74	n/a	30.74	54.9%					
96.25 - 91.25	4009	n/a	4009	31.62	n/a	31.62	60.5%					
91.25 - 86.25	4352	n/a	4352	32.50	n/a	32.50	65.7%					
86.25 - 81.25	4715	n/a	4715	33.38	n/a	33.38	70.7%					
81.25 - 76.25	5098	n/a	5098	34.26	n/a	34.26	75.3%					
76.25 - 73.5	5317	n/a	5317	34.74	n/a	34.74	77.7%					
73.5 - 73.25	5337	1439	6776	34.79	9.00	43.79	59.3%					70.5%
73.25 - 68.25	5752	1510	7262	35.67	9.00	44.67	62.9%					73.9%
68.25 - 66.75	5881	1532	7412	35.93	9.00	44.93	64.0%					74.9%
66.75 - 61	7247	n/a	7247	43.50	n/a	43.50	70.3%					
61 - 56.25	7760	n/a	7760	44.50	n/a	44.50	72.9%					
56.25 - 56	7788	1637	9425	44.56	9.00	53.56	58.4%				72.5%	
56 - 51	8354	1713	10068	45.61	9.00	54.61	60.7%				74.8%	
51 - 46	8948	1791	10738	46.67	9.00	55.67	63.0%				76.9%	
46 - 41	9568	1870	11438	47.72	9.00	56.72	65.2%				78.8%	
41 - 39.5	9760	1894	11654	48.04	9.00	57.04	65.8%				79.3%	
39.5 - 39.25	9856	2911	12767	48.09	17.00	65.09	64.8%		65.8%		76.4%	
39.25 - 38.75	9921	2924	12844	48.20	17.00	65.20	65.0%		66.0%		76.6%	
38.75 - 38.5	9889	2578	12468	48.25	12.00	60.25	62.7%		75.9%	75.9%		
38.5 - 37.5	10020	2600	12620	48.46	12.00	60.46	63.1%		76.2%	76.2%		
37.5 - 31.25	11937	2643	14580	56.93	12.00	68.93	56.2%		71.8%	71.8%		
31.25 - 26.25	12728	2754	15483	58.17	12.00	70.17	57.7%		73.1%	73.1%		
26.25 - 21.25	13554	2868	16421	59.40	12.00	71.40	59.1%		74.3%	74.3%		
21.25 - 16.25	14414	2984	17398	60.63	12.00	72.63	60.5%		75.4%	75.4%		
16.25 - 11.25	15310	3102	18412	61.86	12.00	73.86	61.8%		76.4%	76.4%		
11.25 - 10	15540	3132	18671	62.17	12.00	74.17	62.1%		76.6%	76.6%		
10 - 9.75	15656	784	16440	62.23	8.00	70.23	76.1%	69.0%		69.0%		
9.75 - 7.25	16124	800	16924	62.84	8.00	70.84	76.8%	69.5%		69.5%		
7.25 - 7	16135	2425	18560	62.91	8.00	70.91	68.7%		77.5%			
7 - 2	17100	2519	19619	64.14	8.00	72.14	70.0%		78.3%			
2 - 0	17496	2557	20053	64.63	8.00	72.63	70.5%		78.6%			

Note: Section capacity checked using 5 degree increments.
Rating per TIA-222-H Section 15.5.

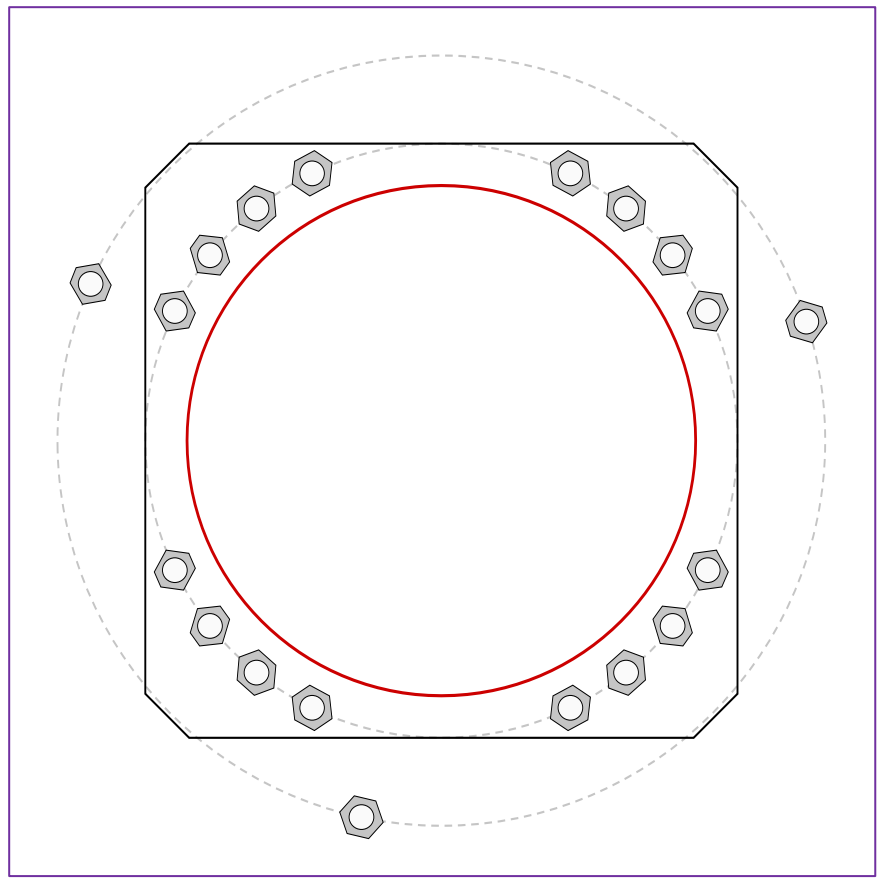
Monopole Base Plate Connection

Site Info	
BU #	876315
Site Name	NE CC, INC. TOWER(SSU
Order #	552710, Rev# 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	See Custom Sheet
l_{ar} (in)	See Custom Sheet

Applied Loads	
Moment (kip-ft)	3370.92
Axial Force (kips)	53.45
Shear Force (kips)	30.70

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (16) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 54" BC
Anchor Spacing: 6 in
GROUP 2: (3) 2-1/4" ø bolts (A193 Gr. B7 N; Fy=105 ksi, Fu=125 ksi) on 70" BC
pos. (deg): 18, 156, 258

Base Plate Data

54" W x 3" Plate (A572-60; Fy=60 ksi, Fu=75 ksi); Clip: 4 in

Stiffener Data

N/A

Pole Data

46.38" x 0.4375" 12-sided pole (A607-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

GROUP 1:		
Pu_t = 147.28	ϕPn_t = 243.75	**Stress Rating**
Vu = 1.92	ϕVn = 149.1	**57.5%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 2:		
Pu_t = 188.39	ϕPn_t = 304.69	**Stress Rating**
Vu = 0	ϕVn = 186.38	**58.9%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	25.72	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**45.4%**	**Pass**

CCIplate

Elevation (ft)	0	*(Base)*

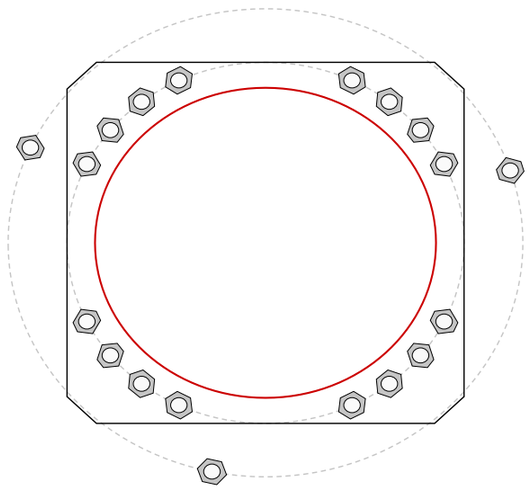
note: Bending interaction not considered when Grout Considered = "Yes"

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending	Grout Considered	Apply at BARB Elevation	BARB CL Elevation (ft)
1	Yes	Yes	Yes	No	No	
2	No	No	No	No	No	

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η:	I_{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	25.861889	2.25	A615-75	54	0.5	0	N-Included		No
2	1	38.62063	2.25	A615-75	54	0.5	0	N-Included		No
3	1	51.37937	2.25	A615-75	54	0.5	0	N-Included		No
4	1	64.138111	2.25	A615-75	54	0.5	0	N-Included		No
5	1	115.86189	2.25	A615-75	54	0.5	0	N-Included		No
6	1	128.62063	2.25	A615-75	54	0.5	0	N-Included		No
7	1	141.37937	2.25	A615-75	54	0.5	0	N-Included		No
8	1	154.13811	2.25	A615-75	54	0.5	0	N-Included		No
9	1	205.86189	2.25	A615-75	54	0.5	0	N-Included		No
10	1	218.62063	2.25	A615-75	54	0.5	0	N-Included		No
11	1	231.37937	2.25	A615-75	54	0.5	0	N-Included		No
12	1	244.13811	2.25	A615-75	54	0.5	0	N-Included		No
13	1	295.86189	2.25	A615-75	54	0.5	0	N-Included		No
14	1	308.62063	2.25	A615-75	54	0.5	0	N-Included		No
15	1	321.37937	2.25	A615-75	54	0.5	0	N-Included		No
16	1	334.13811	2.25	A615-75	54	0.5	0	N-Included		No
17	2	18	2.25	A193 Gr. B7	70	0.5	0	N-Included		No
18	2	156	2.25	A193 Gr. B7	70	0.5	0	N-Included		No
19	2	258	2.25	A193 Gr. B7	70	0.5	0	N-Included		No

Plot Graphic



PROJECT	**81150.009.01 - OAK LANE CC, INC. TOWER (SSUSA, CT**
SUBJECT	**Anchor Rod Bracket Analysis**
DATE	**05/13/21**
v4.6.1	

TIA-222 Rev.	H
Apply TIA-222-H Section 15.5?	Yes

B+T GRP
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630

Analysis Criteria		
Design/Analysis	Analysis	
Load Type	Current Load	
Current load	188.39	kips
AR Capacity	375.7	kips

Tower Type	Monopole	

Manufacturers Tower Prop.		
Pole Thickness	0.4375	in
Pole Grade	A572-65	
Fy	65	ksi
Fu	80	ksi
Base Plate Gr.	A572-60	
Fy	60	ksi
Fu	75	ksi

Post-Installed Adhesive AR Mod.		
ARB Type	Welded	
Size	2.25	in
Grade	A193 Gr B7	
Fy	105	ksi
Fu	125	ksi

Anchor Rod Bracket Analysis Checks		
Tube Bearing	36.7%	-
Tube Compression	55.0%	-
Gusset Shear	13.6%	-
Gusset Flexure	N/A	-
Welds: Gusset to Tower and BP	26.2%	-
Welds: Gusset to Tube	13.7%	-
Welds: Geometry	N/A	
Tower Punching	18.2%	-
Tube Punching	8.0%	-
Utilization	**55.0%**	

Bracket Properties

Gusset			Pipe/Tube			Weld - Gusset to Pipe/Tube		
Thickness	1.25	in	Size	HSS5x5x1/2		FEXX	70	ksi
Width at Tube	9.75	in	Total Length	41	in	Weld Type	PJP - Double Bevel	
Height at Pole	48	in	Length above Gusset	0	in	Fillet Size	5/8	in
Height at Tube	36	in	Length below Gusset	5	in	Bevel Depth	1/2	in
Grade	A572-50		Grade	A500 Grade B (Square)				
Fy	50	ksi	Fy	46	ksi			
Fu	65	ksi	Fu	58	ksi			

Weld - Gusset to Tower			Weld - Gusset to Base Plate		
FEXX	70	ksi	FEXX	70	ksi
Weld Type	Double Fillet		Weld Type	PJP - Double Bevel	
Fillet Size	3/8	in	Fillet Size	5/8	in
			Bevel Depth	1/2	in
			Gap	2	in
			Notch (horiz)	0.75	in
			Notch (vert)	0.75	in
			Pipe/Tube Welded to Base/Footpad?	No	

Pier and Pad Foundation

BU # :	876315
Site Name:	OAK LANE CC,
App. Number:	552710, Rev# 0

TIA-222 Revision:	H
Tower Type:	Monopole

Top & Bot. Pad Rein. Different?:	☐
Block Foundation?:	☑
Rectangular Pad?:	☐

Superstructure Analysis Reactions		
Compression, P_{comp}:	53	kips
Base Shear, Vu_comp:	31	kips
Moment, M_u:	3371	ft-kips
Tower Height, **H**:	150	ft
BP Dist. Above Fdn, bp_{dist}:	4.625	in
Bolt Circle / Bearing Plate Width, **BC**:	54	in

Foundation Analysis Checks	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	133.65	31.00	**22.1%**	**Pass**
Bearing Pressure (ksf)	18.00	3.74	**20.8%**	**Pass**
*Overturning (kip*ft)*	4876.99	3537.95	**72.5%**	**Pass**
*Pad Flexure (kip*ft)*	8967.19	1844.15	**19.6%**	**Pass**
Pad Shear - 1-way (kips)	1363.20	218.66	**15.3%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.164	0.002	**1.3%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	10725.59	0.00	**0.0%**	**Pass**

**Rating per TIA-222-H Section 15.5*

Soil Rating*:	**72.5%**
Structural Rating*:	**19.6%**

Pad Properties		
Depth, **D**:	4.5	ft
Pad Width, W_1:	25	ft
Pad Thickness, **T**:	5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	37	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	3	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	100	pcf
Ultimate Gross Bearing, Qult:	24.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	30	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:		
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, **gw**:	3	ft

<--Toggle between Gross and Net

Company:	B+T Grp	Page:	1
Address:	1717 S. Boulder,Suite 300	Specifier:	Manish Shetty
Phone I Fax:	| 918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	5/13/2021
Fastening point:			

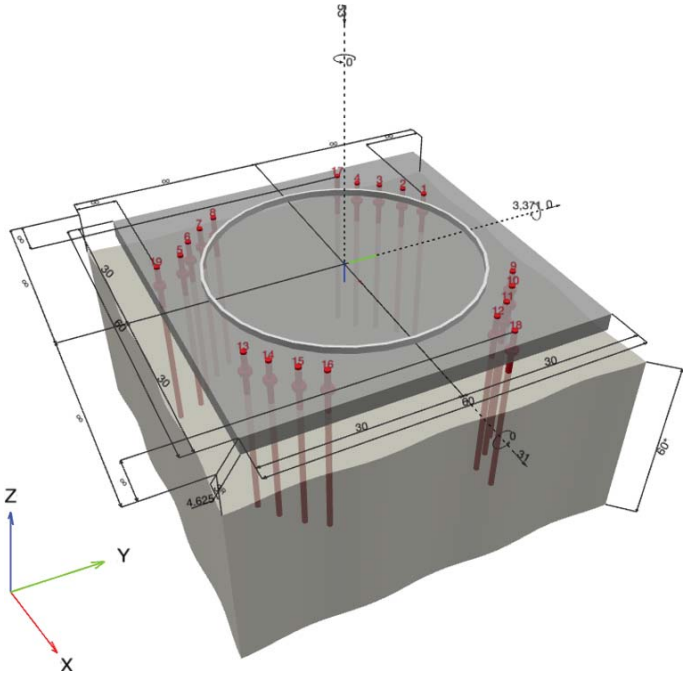
Specifier's comments:

1 Input data

Anchor type and diameter:	2.25in AR
Item number:	not available
Effective embedment depth:	Hef=80in
Material:	ASTM F 1554
Evaluation Service Report:	Hilti Technical Data
Issued I Valid:	- | -
Proof:	Design Method ACI 318-14 / CIP
Stand-off installation:	without clamping (anchor); restraint level (anchor plate): 1.00; e_b = 4.625 in.; t = 3.000 in.
Anchor plate[R] :	l_x x l_y x t = 60.000 in. x 60.000 in. x 3.000 in.; (Recommended plate thickness: not calculated)
Profile:	Steel pipe, ; (L x W x T) = 46.380 in. x 46.380 in. x 0.500 in.
Base material:	cracked concrete, 3000, f_c' = 3,000 psi; h = 60.000 in.
Reinforcement:	tension: condition B, shear: condition B; edge reinforcement: none or < No. 4 bar

[R] - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [kip, ft.kip]

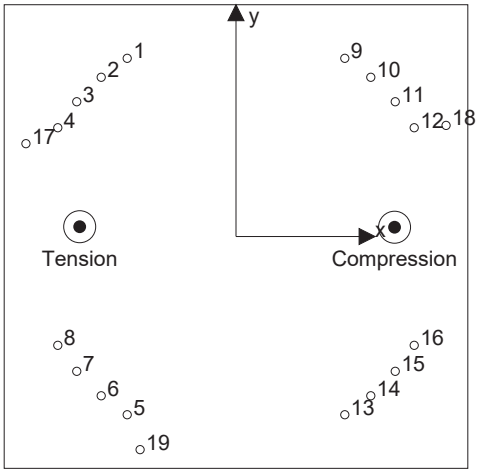


Company:	B+T Grp	Page:	2
Address:	1717 S. Boulder,Suite 300	Specifier:	Manish Shetty
Phone I Fax:	| 918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	5/13/2021
Fastening point:			

1.1 Design results

Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = -53.000; V_x = 31.000; V_y = 0.000; M_x = 0.00000; M_y = 3,371.00000; M_z = 0.00000;	no	∞

2 Load case/Resulting anchor forces



Max compression for original AR.

Anchor reactions [kip]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	77.644	1.635	1.635	0.002
2	95.180	1.634	1.634	0.002
3	111.406	1.634	1.634	0.003
4	123.694	1.633	1.633	0.003
5	63.003	1.629	1.629	0.002
6	82.095	1.629	1.629	0.002
7	100.330	1.629	1.629	0.003
8	114.757	1.630	1.630	0.003
9	-75.654	1.635	1.635	-0.002
10	-94.746	1.634	1.634	-0.002
11	-112.981	1.634	1.634	-0.003
12	-127.408	1.633	1.633	-0.003
13	-90.297	1.629	1.629	-0.002
14	-107.831	1.629	1.629	-0.002
15	-124.056	1.629	1.629	-0.003
16	-136.348	1.630	1.630	-0.003
17	145.487	1.633	1.633	0.004
18	-149.758	1.634	1.634	-0.004
19	52.483	1.628	1.628	0.002

max. concrete compressive strain:	- [‰]
max. concrete compressive stress:	- [psi]
resulting tension force in (x/y)=(-20.228/1.270):	966.078 [kip]
resulting compression force in (x/y)=(20.518/1.204):	1,019.078 [kip]

Anchor forces are calculated based on the assumption of a rigid anchor plate.

Company:	B+T Grp	Page:	3
Address:	1717 S. Boulder,Suite 300	Specifier:	Manish Shetty
Phone I Fax:	| 918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	5/13/2021
Fastening point:			

3 Tension load

	Load N_{ua} [kip]	Capacity ϕ N_n [kip]	Utilization $\beta_N = N_{ua}/\phi$ N_n	RevH
Steel Strength*	-149.758	304.69	49.15%	46.81%
Pullout Strength*	123.694	120.375	102.75%	97.86%
Concrete Breakout Failure**	966.078	1015.815	87.4%	83.24%

3.1 Steel Strength

$N_{sa} = A_{se,N} f_{uta}$ ACI 318-14 Eq. (17.4.1.2)
$\phi N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
3.25	125000

Calculations

N_{sa} [kip]
406.25

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
406.25	0.750	304.69	-149.758

The steel proof was done for the highest absolute force per anchor - in this case compression loading. Please be aware that buckling should be verified separately

3.2 Pullout Strength

Bearing area Abrg=0.866*(distance across the flats)^2-(pi/4)*Dia of AR^2

$N_{pN} = \psi_{c,p} N_p$ ACI 318-14 Eq. (17.4.3.1)
$N_p = 8 A_{brg} f'_c$ ACI 318-14 Eq. (17.4.3.4)
$\phi N_{pN} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$\psi_{c,p}$	A_{brg} [in.^{2}]	λ_a	f'_c [psi]
1.000	7.17	1.000	3,000

Calculations

N_p [kip]
171.965

Results

N_{pn} [kip]	$\phi_{concrete}$	ϕN_{pn} [kip]	N_{ua} [kip]
171.965	0.700	120.375	123.694

used compression load Nua of that of original AR's.

Company:	B+T Grp	Page:	4
Address:	1717 S. Boulder,Suite 300	Specifier:	Manish Shetty
Phone I Fax:	| 918-587-4630	E-Mail:	
Design:	Concrete Breakout	Date:	5/13/2021
Fastening point:			

3.3 Concrete Breakout Failure

$N_{cbg} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ec,N}\ \psi_{ed,N}\ \psi_{c,N}\ \psi_{cp,N}\ N_b$ — ACI 318-14 Eq. (17.4.2.1b)

$\phi\ N_{cbg} \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9\ h_{ef}^2$ — ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2\ e'_N}{3\ h_{ef}}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.4)

$\psi_{ed,N} = 0.7 + 0.3\left(\frac{c_{a,min}}{1.5h_{ef}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.7b)

$N_b = 16\ \lambda_a\ \sqrt{f'_c}\ h_{ef}^{5/3}$ — ACI 318-14 Eq. (17.4.2.2b)

Variables

h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
80in	1.230	2.827	∞	1.000

c_{ac} [in.]	k_c	λ_a	f'_c [psi]
-	16	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
86436	57600	1	0.85	1.000	1.000	1301.66

Results

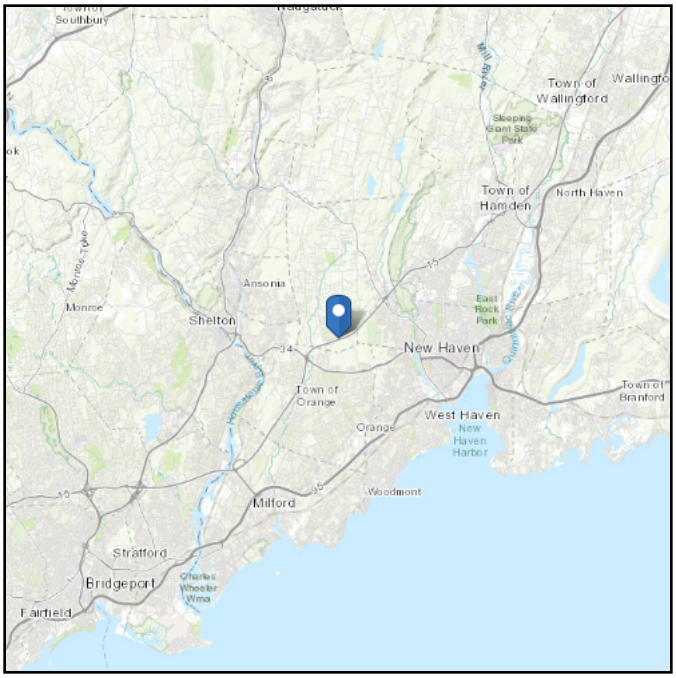
N_{cbg} [kip]	$\phi_{concrete}$	$\phi\ N_{cbg}$ [kip]	N_{ua} [kip]
1660.307	0.700	1015.815	966.078

*** Refer Excel Calculations Sheet for more Details.

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-10	**Elevation:**	238.48 ft (NAVD 88)
Risk Category:	II	**Latitude:**	41.31675
Soil Class:	D - Stiff Soil	**Longitude:**	-73.011611



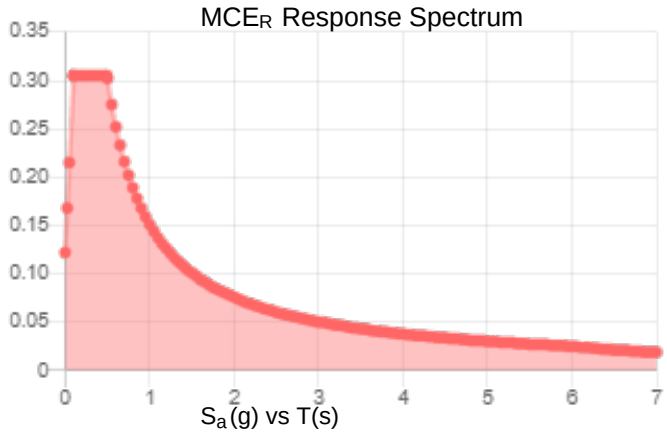
Seismic

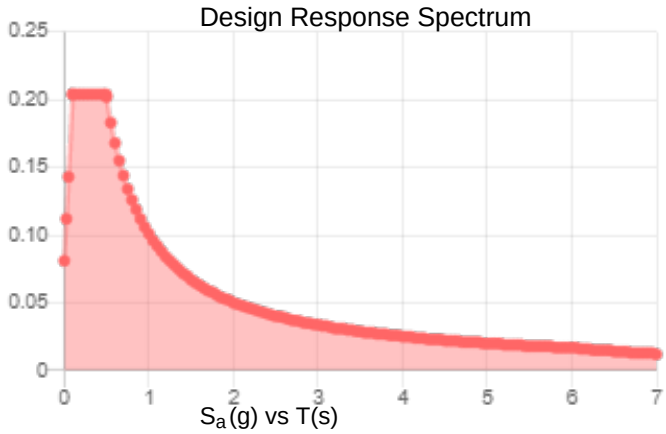
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.191	S_{DS} :	0.204
S_1 :	0.063	S_{D1} :	0.101
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.1
S_{MS} :	0.305	PGA_M :	0.161
S_{M1} :	0.151	F_{PGA} :	1.599
		I_e :	1

Seismic Design Category B





Data Accessed: Sun May 02 2021

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	0.75 in.
Concurrent Temperature:	15 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Sun May 02 2021

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Exhibit E

Mount Analysis

Maser Consulting Connecticut
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@colliersengineering.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10117578
Maser Consulting Connecticut Project #: 21777143A

December 2, 2021

Site Information	*Site ID:*	*467834-VZW / WOODBRIDGE S CT*
	Site Name:	*WOODBRIDGE S CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*1116 Johnson Rd.* *Woodbridge, Connecticut 06525* *New Haven County*
	Latitude:	*41.316833°*
	Longitude:	*-73.011583°*
Structure Information	*Tower Type:*	*Monopole*
	Mount Type:	*14.00-Ft Platform*

FUZE ID # 16244090

Analysis Results

Platform: **93.8% Pass**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

12/2/21

Report Prepared By: Abigail Enriquez

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: 325183, dated August 5, 2021*
Mount Mapping Report	*RKS Design & Engineering, LLC, Project # 21777143A, dated November 8, 2021*
Previous Mount Analysis	*Maser Consulting Connecticut, Project #: 21777143A, dated November 17, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut, Project #: 21777143A, dated December 2, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	119 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.991
Seismic Parameters:	S_S:	0.20 g
	S_1:	0.05 g
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live Load, Lm:	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
124.80	127.00	6	JMA Wireless	MX06FRO660-02	Added
		3	Samsung	MT6407-77A	
		1	Amphenol Antel	BXA-70080-4CF	
		2	Antel	BXA-80063/4CF	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	

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 Maser Consulting Connecticut 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 Maser Consulting Connecticut 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. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff_1	31.7 %	Pass
Standoff_2	15.8 %	Pass
Grating Angle	34.9 %	Pass
Cross Members	33.0 %	Pass
Face Horizontal	93.8 %	Pass
Mount Pipe	50.1 %	Pass
Dual Mount Pipe	33.0 %	Pass
Light Pipe	1.4 %	Pass
Support Rail	35.1 %	Pass
Support Rail Corner	55.5 %	Pass
Kicker Kit	7.0 %	Pass
Connection Check	53.9 %	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**93.8%**

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	34.0	34.0	49.5	49.5
0.5	42.5	42.5	64.3	64.3
1	50.1	50.1	78.1	78.1

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

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications 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. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter


11/08/2021

V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

FCC #
UNKNOWN

Tower Owner:	CROWN CASTLE	**Mapping Date:**	11/8/2021
Site Name:	CC: OAK LANE CC, INC. TOWER (SSUSA), VZW: NE WOODBRID(	**Tower Type:**	Monopole
Site Number or ID:	CC: 876315, VZW:467834	**Tower Height (Ft.):**	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	**Mount Elevation (Ft.):**	124.3

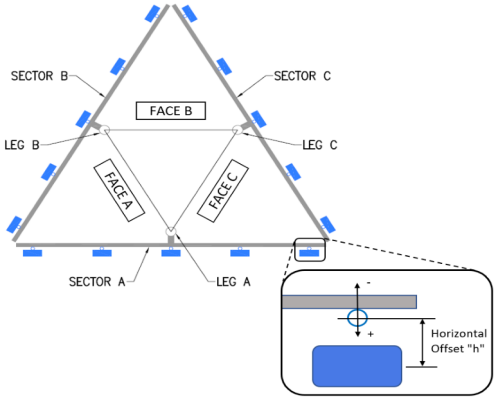
Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

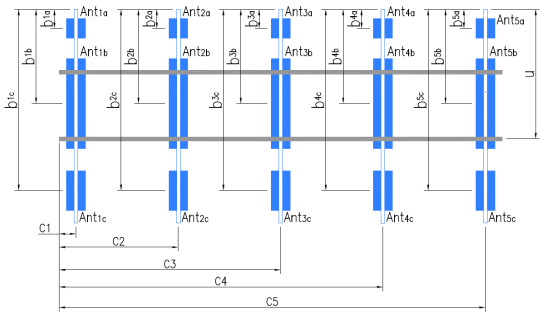
Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	13.50	C1	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	13.50
A2	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	91.25	C2	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	39.50
A3	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	134.25	C3	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	91.25
A4	PIPE 2.39"Ø X 0.16" X 72" LONG	59.50	158.25	C4	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	134.25
A5				C5	PIPE 2.39"Ø X 0.16" X 72" LONG	59.50	158.25
A6				C6			
B1	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	13.50	D1			
B2	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	91.25	D2			
B3	PIPE 2.39"Ø X 0.16" X 72" LONG	59.00	134.25	D3			
B4	PIPE 2.39"Ø X 0.16" X 72" LONG	59.50	158.25	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.) :	8.33
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	0.5
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.):	26.59
For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.			





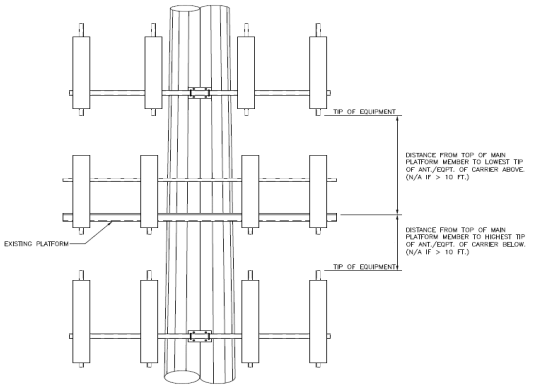
Antenna Layout (Looking Out From Tower)

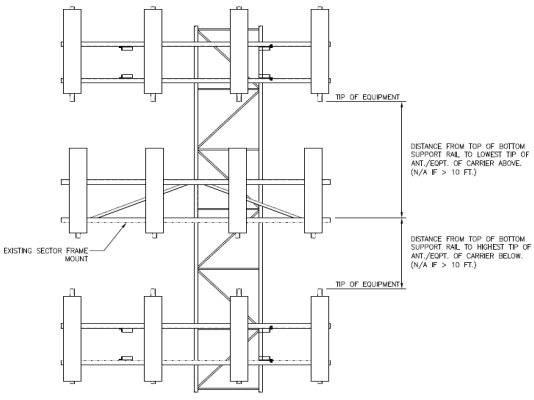
Ants. Items	Enter antenna model. If not labeled, enter "Unknown". Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Mounting Locations [Units are inches and degrees] Vertical Distances"b_{1a}, b_{2a}, b_{3a}, b_{1b}...." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photos of antennas Photo Numbers
Sector A										
Ant_{1a}	9442 RRH2x40-AWS	10.60	6.70	24.50		127.675	18.50	-6.50		146
Ant_{1b}	MGD3-800T0/5206_4	6.30	3.50	52.70		126.8	29.00	8.00	50.00	146
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	UNKNOWN-PANEL	12.50	6.00	71.50		126.342	34.50	12.50	50.00	147
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	MGD3-800T0	6.30	3.50	52.70		126.8	29.00	7.50	50.00	148
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	BXA-70080-4CF-EDIN	8.00	5.90	47.50		126.946	27.75	12.50	50.00	148
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower	RRFDC-3315-PF-48	15.73	10.25	25.66						146
Ant on Tower										

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector		
Sector A:	50.00	Deg	Leg A:		Deg
Sector B:	170.00	Deg	Leg B:		Deg
Sector C:	290.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

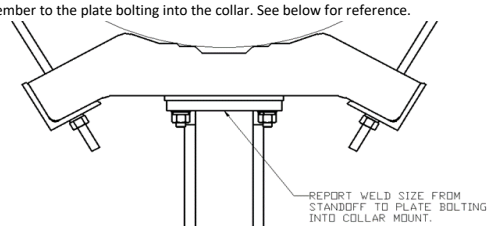
Climbing Facility Information		
Location:	60.00 Deg	N/A
Climbing Facility	Corrosion Type:	N/A
	Access:	Climbing path was unobstructed.
	Condition:	Good condition.

Please insert a photo of the mount centerline measurement here.





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



Sector B										
Ant_{1a}	9442 RRH2x40-AWS	10.60	6.70	24.50		127.675	18.50	-6.50		149
Ant_{1b}	MGD3-800T0/5206_4	6.30	3.50	52.70		126.8	29.00	8.00	170.00	149
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	UNKNOWN-PANEL	12.50	6.00	71.50		126.342	34.50	12.50	170.00	150
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	MGD3-800T0	6.30	3.50	52.70		126.8	29.00	7.50	170.00	151
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	BXA-80063-4CF-EDIN	11.20	5.20	47.40		126.946	27.75	12.50	170.00	151
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}	9442 RRH2x40-AWS	10.60	6.70	24.50		127.675	18.50	-6.50		152
Ant_{1b}	MGD3-800T0/5206_4	6.30	3.50	52.70		126.8	29.00	8.00	290.00	152
Ant_{1c}										
Ant_{2a}										
Ant_{2b}	UNKNOWN-GPS	3.50	3.50	8.00		130.008	-9.50			152
Ant_{2c}										
Ant_{3a}										
Ant_{3b}	UNKNOWN-PANEL	12.50	6.00	71.50		126.342	34.50	12.50	290.00	153
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	MGD3-800T0	6.30	3.50	52.70		126.8	29.00	7.50	290.00	154
Ant_{4c}										
Ant_{5a}										
Ant_{5b}	BXA-80063-4CF-EDIN	11.20	5.20	47.40		126.946	27.75	12.50	290.00	154
Ant_{5c}										
Ant on Standoff										
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 (13): (12) 1.52"Ø, (1) 1.52"Ø HYBRID	26
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.

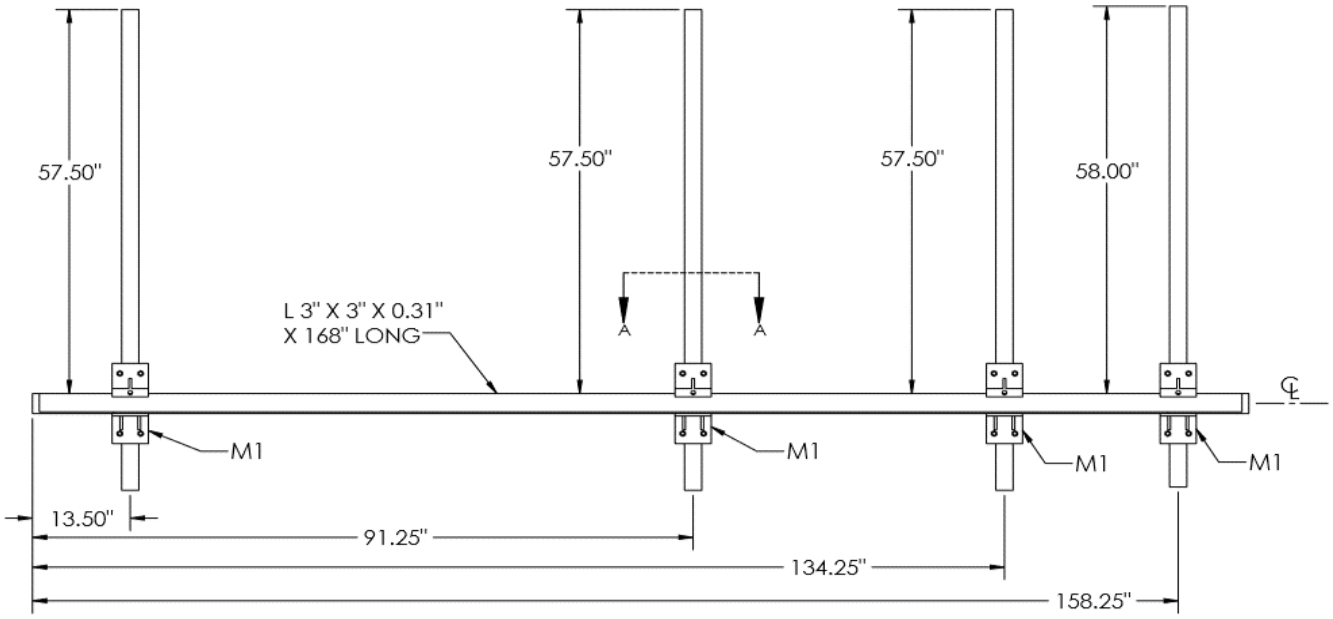
V4.0 Updated on 3-31-2021

Antenna Mount Mapping Form (PATENT PENDING)

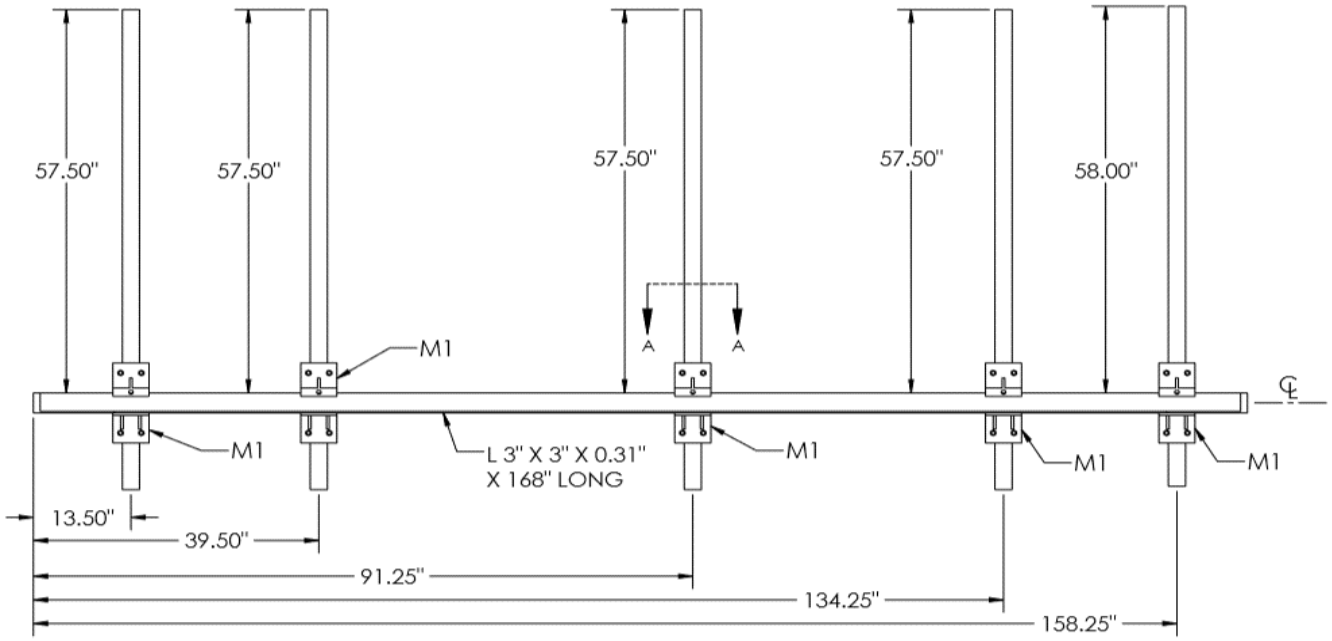
FCC #
UNKNOWN

Tower Owner:	CROWN CASTLE	**Mapping Date:**	11/8/2021
Site Name:	CC: OAK LANE CC, INC. TOWER (SSUSA), VZW: NE WOODBRID	**Tower Type:**	Monopole
Site Number or ID:	CC: 876315, VZW:467834	**Tower Height (Ft.):**	UNKNOWN
Mapping Contractor:	RKS Design & Engineering, LLC	**Mount Elevation (Ft.):**	124.3

Please Insert Sketches of the Antenna Mount

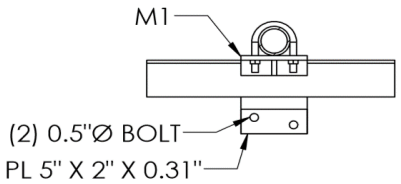


SECTOR - A & B

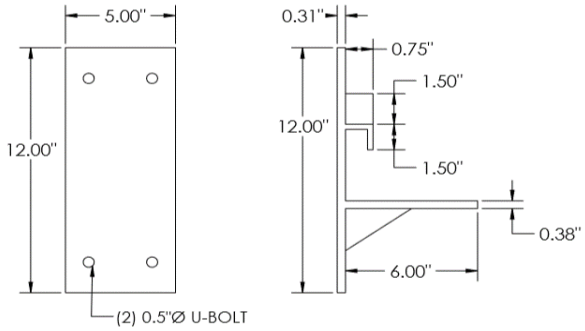


SECTOR - C

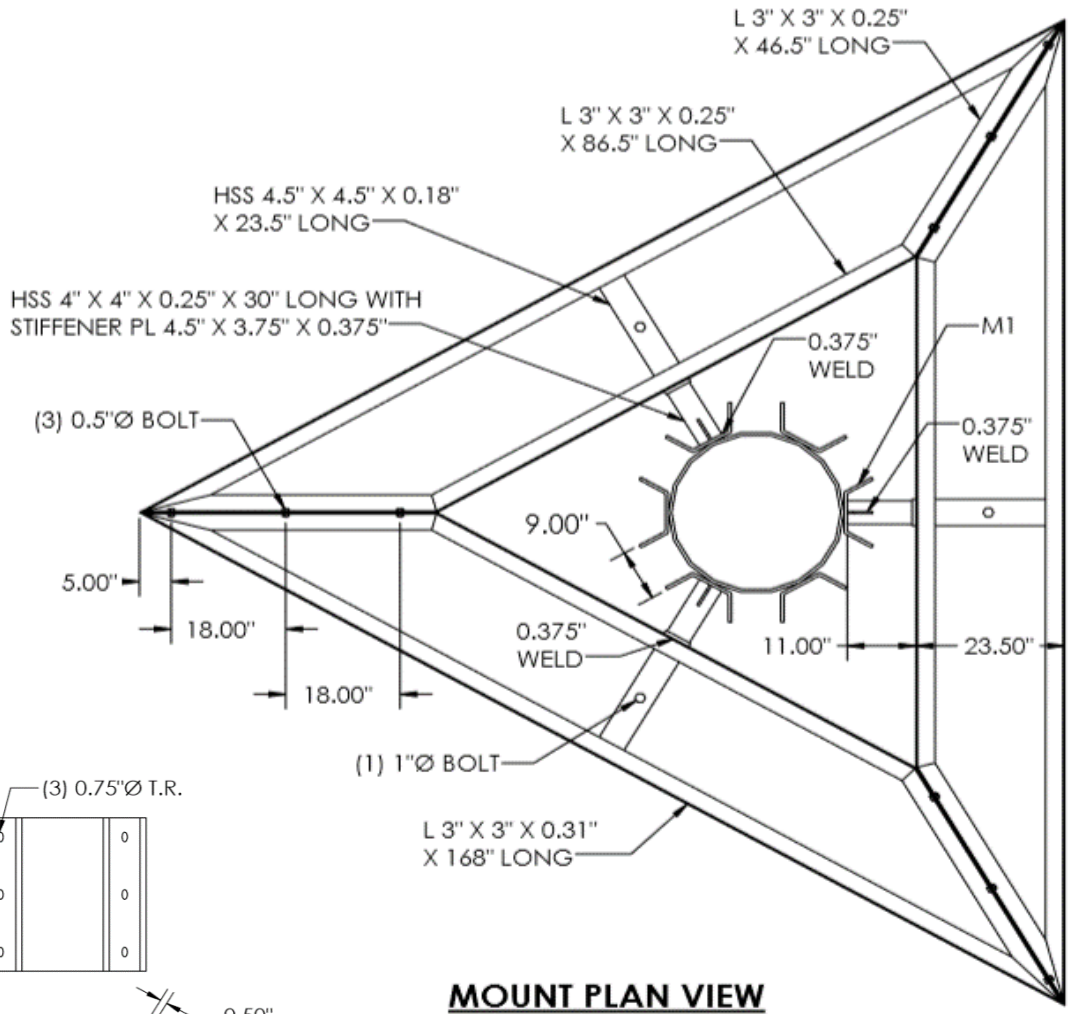
Please Insert Sketches of the Antenna Mount, cont'd



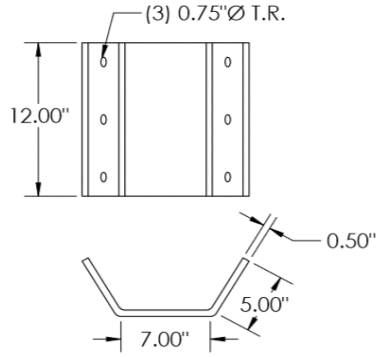
SECTION A-A



M1 MEBER DETAIL

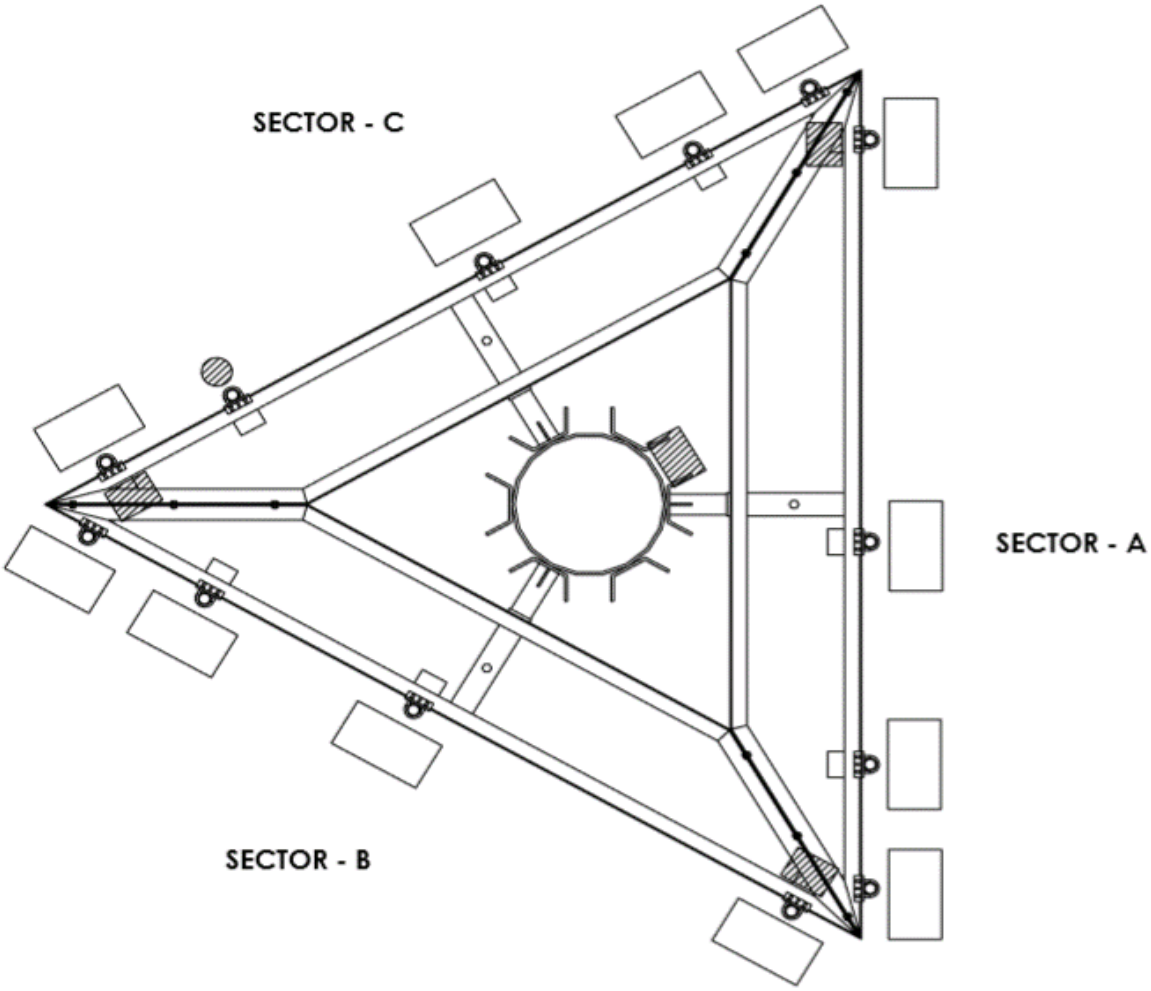


MOUNT PLAN VIEW

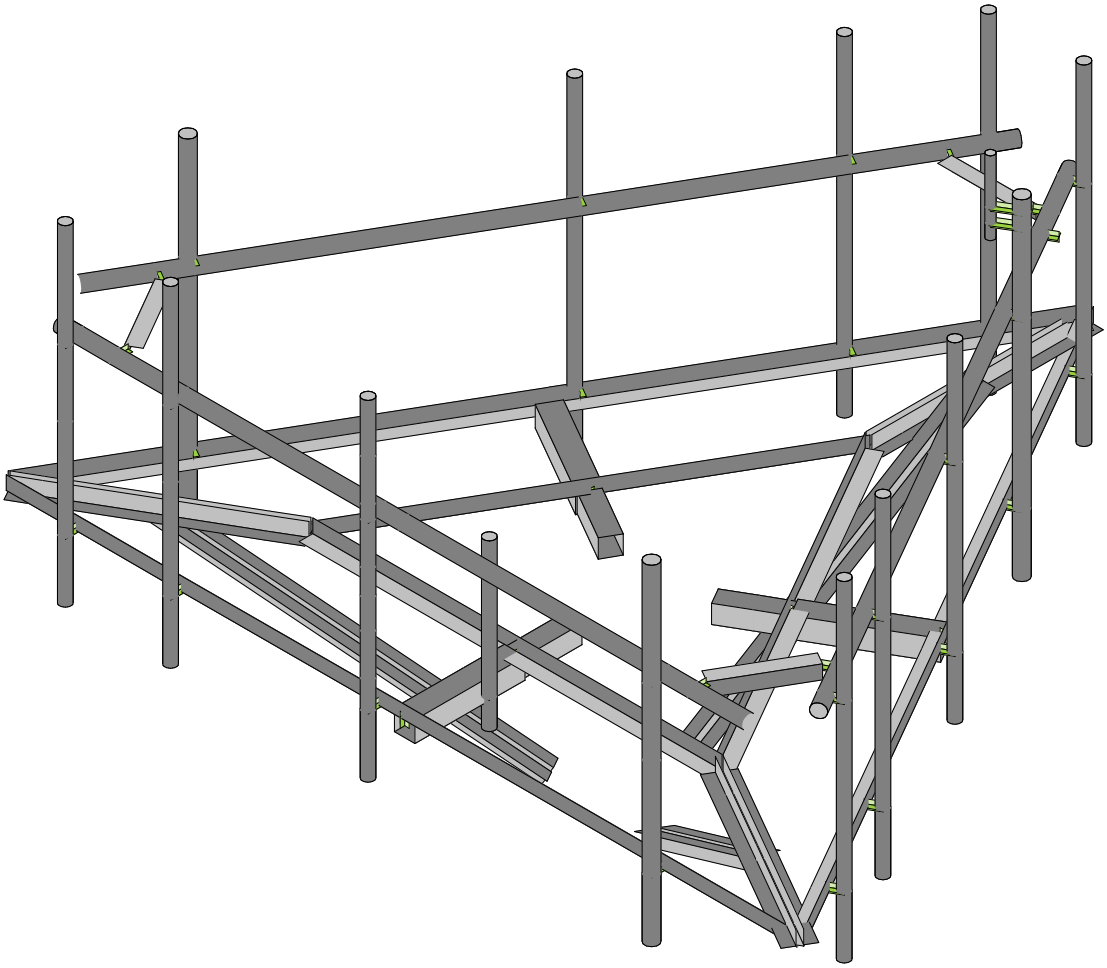


M1 MEMBER DETAIL

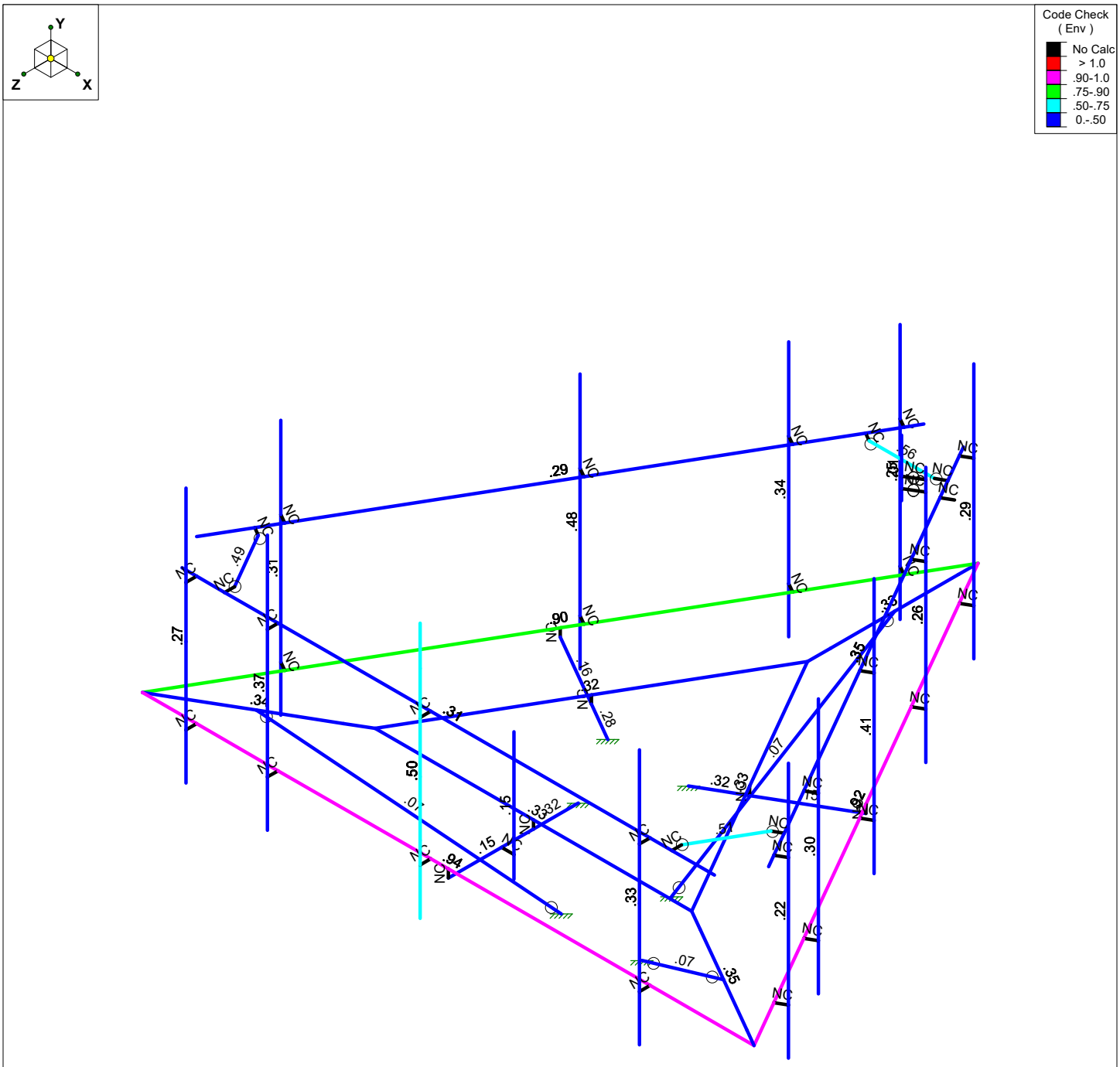
Please Insert Sketches of the Antenna Mount, cont'd



ANTENNA PLAN VIEW

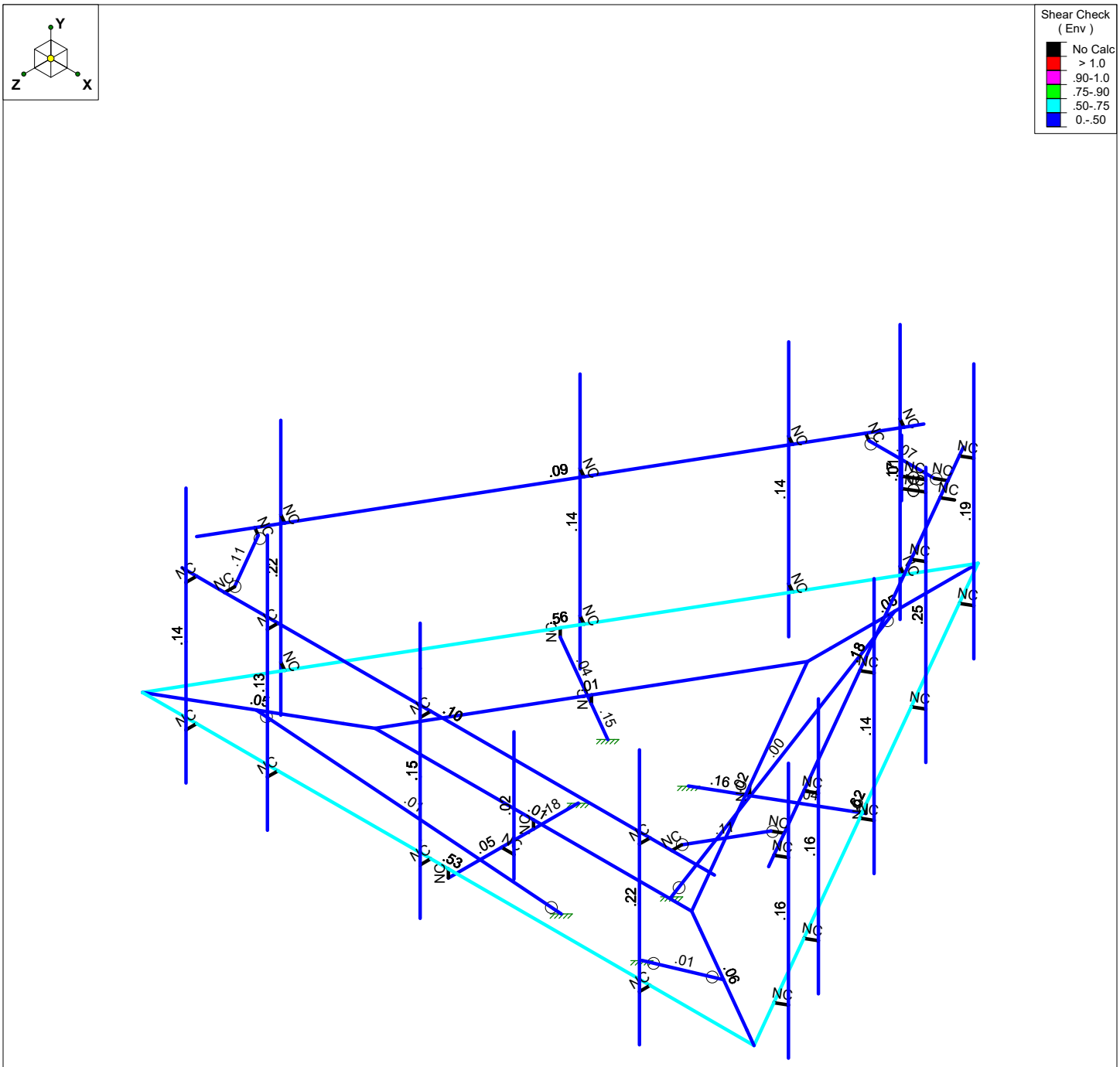


		SK - 1
		Dec 2, 2021 at 4:37 AM
		467834-VZW_MT_LO_H.r3d



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

		SK - 2
		Dec 2, 2021 at 4:37 AM
		467834-VZW_MT_LO_H.r3d



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

		SK - 3
		Dec 2, 2021 at 4:37 AM
		467834-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					96			
2	Antenna Di	None					96			
3	Antenna Wo (0 Deg)	None					96			
4	Antenna Wo (30 Deg)	None					96			
5	Antenna Wo (60 Deg)	None					96			
6	Antenna Wo (90 Deg)	None					96			
7	Antenna Wo (120 Deg)	None					96			
8	Antenna Wo (150 Deg)	None					96			
9	Antenna Wo (180 Deg)	None					96			
10	Antenna Wo (210 Deg)	None					96			
11	Antenna Wo (240 Deg)	None					96			
12	Antenna Wo (270 Deg)	None					96			
13	Antenna Wo (300 Deg)	None					96			
14	Antenna Wo (330 Deg)	None					96			
15	Antenna Wi (0 Deg)	None					96			
16	Antenna Wi (30 Deg)	None					96			
17	Antenna Wi (60 Deg)	None					96			
18	Antenna Wi (90 Deg)	None					96			
19	Antenna Wi (120 Deg)	None					96			
20	Antenna Wi (150 Deg)	None					96			
21	Antenna Wi (180 Deg)	None					96			
22	Antenna Wi (210 Deg)	None					96			
23	Antenna Wi (240 Deg)	None					96			
24	Antenna Wi (270 Deg)	None					96			
25	Antenna Wi (300 Deg)	None					96			
26	Antenna Wi (330 Deg)	None					96			
27	Antenna Wm (0 Deg)	None					96			
28	Antenna Wm (30 Deg)	None					96			
29	Antenna Wm (60 Deg)	None					96			
30	Antenna Wm (90 Deg)	None					96			
31	Antenna Wm (120 Deg)	None					96			
32	Antenna Wm (150 Deg)	None					96			
33	Antenna Wm (180 Deg)	None					96			
34	Antenna Wm (210 Deg)	None					96			
35	Antenna Wm (240 Deg)	None					96			
36	Antenna Wm (270 Deg)	None					96			
37	Antenna Wm (300 Deg)	None					96			
38	Antenna Wm (330 Deg)	None					96			
39	Structure D	None		-1					3	
40	Structure Di	None						39	3	
41	Structure Wo (0 Deg)	None						78		
42	Structure Wo (30 Deg)	None						78		
43	Structure Wo (60 Deg)	None						78		
44	Structure Wo (90 Deg)	None						78		
45	Structure Wo (120 D...	None						78		
46	Structure Wo (150 D...	None						78		
47	Structure Wo (180 D...	None						78		
48	Structure Wo (210 D...	None						78		
49	Structure Wo (240 D...	None						78		
50	Structure Wo (270 D...	None						78		
51	Structure Wo (300 D...	None						78		
52	Structure Wo (330 D...	None						78		
53	Structure Wi (0 Deg)	None						78		
54	Structure Wi (30 Deg)	None						78		
55	Structure Wi (60 Deg)	None						78		
56	Structure Wi (90 Deg)	None						78		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						78		
58	Structure Wi (150 De...	None						78		
59	Structure Wi (180 De...	None						78		
60	Structure Wi (210 De...	None						78		
61	Structure Wi (240 De...	None						78		
62	Structure Wi (270 De...	None						78		
63	Structure Wi (300 De...	None						78		
64	Structure Wi (330 De...	None						78		
65	Structure Wm (0 Deg)	None						78		
66	Structure Wm (30 De...	None						78		
67	Structure Wm (60 De...	None						78		
68	Structure Wm (90 De...	None						78		
69	Structure Wm (120 D...	None						78		
70	Structure Wm (150 D...	None						78		
71	Structure Wm (180 D...	None						78		
72	Structure Wm (210 D...	None						78		
73	Structure Wm (240 D...	None						78		
74	Structure Wm (270 D...	None						78		
75	Structure Wm (300 D...	None						78		
76	Structure Wm (330 D...	None						78		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					96			
82	Antenna Eh (0 Deg)	None					64			
83	Antenna Eh (90 Deg)	None					64			
84	Structure Ev	ELY		-.043						
85	Structure Eh (0 Deg)	ELZ	-.107							
86	Structure Eh (90 Deg)	ELX			.107					
87	BLC 39 Transient Are...	None						40		
88	BLC 40 Transient Are...	None						40		

Load Combinations

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1														
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1														
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1														
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1														
5	1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1														
6	1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1														
7	1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1														
8	1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1														
9	1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1														
10	1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1														
11	1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1														
12	1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1														
13	1.2D + 1.0Di + 1.0Wi (0 Deg)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0Di + 1.0Wi (30 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0Di + 1.0Wi (60 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0Di + 1.0Wi (90 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0Di + 1.0Wi (120 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										
18	1.2D + 1.0Di + 1.0Wi (150 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1										
19	1.2D + 1.0Di + 1.0Wi (180 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1										
20	1.2D + 1.0Di + 1.0Wi (210 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1										

Load Combinations (Continued)

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
21	1.2D + 1.0Di + 1.0Wi (240 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0Wi (270 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0Wi (300 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi (330 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0Wm (0 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0Wm (60...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0Wm (90...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0Wm (12...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0Wm (15...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0Wm (18...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0Wm (21...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0Wm (24...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0Wm (27...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0Wm (33...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0Wm (0 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0Wm (60...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0Wm (90...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0Wm (12...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0Wm (15...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0Wm (18...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0Wm (21...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0Wm (24...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0Wm (27...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0Wm (30...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0Wm (33...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	1.2D + 1.0Ev + 1.0Eh (0 Deg)	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83		E...	1	E...					
53	1.2D + 1.0Ev + 1.0Eh (30 D...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	E...	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0Eh (60 D...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	E...	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0Eh (90 D...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	E...		E...	1				
56	1.2D + 1.0Ev + 1.0Eh (120 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	E...	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0Eh (150 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	.5	E...	-.8...	E...	.5				
58	1.2D + 1.0Ev + 1.0Eh (180 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-1	83		E...	-1	E...					
59	1.2D + 1.0Ev + 1.0Eh (210 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8...	83	-.5	E...	-.8...	E...	-.5				
60	1.2D + 1.0Ev + 1.0Eh (240 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.8...	E...	-.5	E...	-.8...				
61	1.2D + 1.0Ev + 1.0Eh (270 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-1	E...		E...	-1				
62	1.2D + 1.0Ev + 1.0Eh (300 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.8...	E...	.5	E...	-.8...				
63	1.2D + 1.0Ev + 1.0Eh (330 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	E...	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0Eh (0 Deg)	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	1	83		E...	1	E...					
65	0.9D - 1.0Ev + 1.0Eh (30 De...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	E...	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0Eh (60 De...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	E...	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0Eh (90 De...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	1	E...		E...	1				
68	0.9D - 1.0Ev + 1.0Eh (120 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	E...	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0Eh (150 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	.5	E...	-.8...	E...	.5				
70	0.9D - 1.0Ev + 1.0Eh (180 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-1	83		E...	-1	E...					
71	0.9D - 1.0Ev + 1.0Eh (210 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.8...	83	-.5	E...	-.8...	E...	-.5				
72	0.9D - 1.0Ev + 1.0Eh (240 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.8...	E...	-.5	E...	-.8...				
73	0.9D - 1.0Ev + 1.0Eh (270 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	-1	E...		E...	-1				
74	0.9D - 1.0Ev + 1.0Eh (300 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.8...	E...	.5	E...	-.8...				
75	0.9D - 1.0Ev + 1.0Eh (330 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	E...	.866	E...	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	CP	0.	0	-0.	0	
2	N2	0.	-0.1875	1.095417	0	
3	N10	-0.	0	-4.291667	0	
4	N11	-0.	0	-4.833334	0	
5	N12	-0.	0	-6.333334	0	
6	N13	-0.	0	-7.833334	0	
7	N14	-0.	0	-8.291667	0	
8	N15	-3.716692	0	2.145833	0	
9	N16	-7.180794	0	4.145833	0	
10	N17	3.716693	0	2.145833	0	
11	N18	7.180794	0	4.145833	0	
12	N15A	0.	-0.1875	2.145833	0	
13	N16A	0.	-0.1875	4.145833	0	
14	N15B	-4.18579	0	2.416667	0	
15	N16B	-5.484828	0	3.166667	0	
16	N17A	-6.783866	0	3.916667	0	
17	N18A	4.18579	0	2.416667	0	
18	N19	5.484828	0	3.166667	0	
19	N20	6.783866	0	3.916667	0	
20	N73	0.597461	0	-7.256834	0	
21	N77	0.948658	-0.1875	-0.547709	0	
22	N78	1.858346	-0.1875	-1.072917	0	
23	N91	-3.583333	0	-2.085151	0	
24	N109	-0.948659	-0.1875	-0.547708	0	
25	N110	-1.858346	-0.1875	-1.072917	0	
26	N108A	3.590397	-0.1875	-2.072917	0	
27	N110A	-3.590397	-0.1875	-2.072917	0	
28	N119B	1.425334	-0.1875	-0.822917	0	
29	N39	-0.409961	0	4.145833	0	
30	N40	-0.409961	0	4.395833	0	
31	N41	-0.409961	4.916667	4.395833	0	
32	N42	-0.409961	-1.083333	4.395833	0	
33	N43A	-0.409961	1.791667	4.395833	0	
34	N44	-3.993294	0	4.145833	0	
35	N45A	-3.993294	0	4.395833	0	
36	N46	-3.993294	4.916667	4.395833	0	
37	N47	-3.993294	-1.083333	4.395833	0	
38	N48	-3.993294	1.791667	4.395833	0	
39	N49	-5.909961	0	4.145833	0	
40	N50	-5.909961	0	4.395833	0	
41	N51	-5.909961	4.916667	4.395833	0	
42	N52	-5.909961	-1.083333	4.395833	0	
43	N53A	-5.909961	1.791667	4.395833	0	
44	N54A	4.735873	0	4.145833	0	
45	N55	4.735873	0	4.395833	0	
46	N56	4.735873	4.916667	4.395833	0	
47	N57	4.735873	-1.083333	4.395833	0	
48	N58	4.735873	1.791667	4.395833	0	
49	N51A	3.795377	0	-1.71788	0	
50	N52A	4.011884	0	-1.84288	0	
51	N53	4.011884	4.916667	-1.84288	0	
52	N54	4.011884	-1.083333	-1.84288	0	
53	N55A	5.587044	0	1.385377	0	
54	N56A	5.80355	0	1.260377	0	
55	N57A	5.80355	4.916667	1.260377	0	
56	N58A	5.80355	-1.083333	1.260377	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N59	6.545377	0	3.045259	0	
58	N60	6.761884	0	2.920259	0	
59	N61	6.761884	4.916667	2.920259	0	
60	N62	6.761884	-1.083333	2.920259	0	
61	N63	2.139127	0	-4.586589	0	
62	N64	2.355634	0	-4.711589	0	
63	N65	2.355634	4.916667	-4.711589	0	
64	N66	2.355634	-1.083333	-4.711589	0	
65	N68	-3.385417	0	-2.427953	0	
66	N69	-3.601923	0	-2.552953	0	
67	N70	-3.601923	4.916667	-2.552953	0	
68	N71	-3.601923	-1.083333	-2.552953	0	
69	N72	-1.59375	0	-5.531211	0	
70	N73A	-1.810256	0	-5.656211	0	
71	N74	-1.810256	4.916667	-5.656211	0	
72	N75	-1.810256	-1.083333	-5.656211	0	
73	N76	-0.635417	0	-7.191093	0	
74	N77A	-0.851923	0	-7.316093	0	
75	N78A	-0.851923	4.916667	-7.316093	0	
76	N79	-0.851923	-1.083333	-7.316093	0	
77	N80	-5.958333	0	2.028469	0	
78	N81	-6.17484	0	1.903469	0	
79	N82	-6.17484	4.916667	1.903469	0	
80	N83	-6.17484	-1.083333	1.903469	0	
81	N82A	0.	0	2.145833	0	
82	N83A	0.	0	4.145833	0	
83	N85	1.858346	0	-1.072917	0	
84	N86	-1.858346	0	-1.072917	0	
85	N87	3.590397	0	-2.072917	0	
86	N88	-3.590397	0	-2.072917	0	
87	N88A	0.813967	0	-7.381834	0	
88	N89	0.813967	4.916667	-7.381834	0	
89	N90	0.813967	-1.083333	-7.381834	0	
90	ACL	-0.409961	2.25	4.395833	0	
91	N91A	-0.409961	4	4.395833	0	
92	N92	-0.409961	.5	4.395833	0	
93	N93	-0.409961	3.25	4.395833	0	
94	N94	-0.409961	1.25	4.395833	0	
95	N95	2.355634	4.666667	-4.711589	0	
96	N96	2.355634	4.416667	-4.711589	0	
97	N97	1.998481	4.666667	-4.49699	0	
98	N98	1.998481	4.416667	-4.49699	0	
99	N99	1.998481	5.5	-4.49699	0	
100	N100	1.998481	4.166667	-4.49699	0	
101	N101	0.	-0.1875	2.895833	0	
102	N102	0.291667	-0.1875	2.895833	0	
103	N103	0.291667	-0.6875	2.895833	0	
104	N104	0.291667	2.3125	2.895833	0	
105	N105	0.	3	4.145833	0	
106	N106	0.597461	3	-7.256834	0	
107	N107	-0.409961	3	4.145833	0	
108	N108	-0.409961	3	4.395833	0	
109	N109A	-3.993294	3	4.145833	0	
110	N110B	-3.993294	3	4.395833	0	
111	N111	-5.909961	3	4.145833	0	
112	N112	-5.909961	3	4.395833	0	
113	N113	4.735873	3	4.145833	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
114	N114	4.735873	3	4.395833	0	
115	N115	0.813967	3	-7.381834	0	
116	N116	-6.25	3	4.145833	0	
117	N117	6.25	3	4.145833	0	
118	N118	-5.25	3	4.145833	0	
119	N119	5.25	3	4.145833	0	
120	N120	5.25	3	3.916667	0	
121	N122	-5.25	3	3.916667	0	
122	N123	6.215397	3	2.473717	0	
123	N124	0.965397	3	-6.61955	0	
124	N125	0.766933	3	-6.504967	0	
125	N126	6.016933	3	2.5883	0	
126	N128	-0.965397	3	-6.61955	0	
127	N129	-6.215397	3	2.473717	0	
128	N130	-6.016933	3	2.5883	0	
129	N131	-0.766933	3	-6.504967	0	
130	N130A	6.715397	3	3.339742	0	
131	N131A	0.465397	3	-7.485575	0	
132	N132	-0.465397	3	-7.485575	0	
133	N133	-6.715397	3	3.339742	0	
134	N134	3.795377	3	-1.71788	0	
135	N135	4.011884	3	-1.84288	0	
136	N136	5.587044	3	1.385377	0	
137	N137	5.80355	3	1.260377	0	
138	N138	6.545377	3	3.045259	0	
139	N139	6.761884	3	2.920259	0	
140	N140	1.222461	3	-6.174303	0	
141	N141	1.438967	3	-6.299303	0	
142	N142	-3.385417	3	-2.427953	0	
143	N143	-3.601923	3	-2.552953	0	
144	N144	-1.59375	3	-5.531211	0	
145	N145	-1.810256	3	-5.656211	0	
146	N146	-0.635417	3	-7.191093	0	
147	N147	-0.851923	3	-7.316093	0	
148	N148	-5.958333	3	2.028469	0	
149	N149	-6.17484	3	1.903469	0	
150	N150	0.	-3.1875	-1.095417	0	
151	N151	-0.948658	-3.1875	0.547708	0	
152	N152	0.948659	-3.1875	0.547708	0	
153	N153	2.139127	3	-4.586589	0	
154	N154	2.355634	3	-4.711589	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Dual Mount Pipe	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
3	Support Rail	PIPE_2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
4	Light Pipe	PIPE_1.25	Beam	Pipe	A53 Gr.B	Typical	.625	.184	.184	.368
5	Bottom Corner Plate	L15X6.5X6	Beam	Single Angle	A36 Gr.36	Typical	7.922	24.473	192.705	.363
6	Standoff_2	HSS4.5X4.5X3	Beam	Tube	A500 Gr.B Re...	Typical	2.93	9.02	9.02	14.4
7	Cross Members	L3X3X4	Beam	Channel	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	Face Horizontal	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
9	Standoff_1	HSS4X4X4	Beam	Tube	A500 Gr.B Re...	Typical	3.37	7.8	7.8	12.8
10	Grating Angle	LL3x3x4x0	Beam	Double Angle (No ...	A36 Gr.36	Typical	2.88	4.5	2.46	.063
11	Support Rail Corner	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
12	Kicker Kit	LL3x3x3x3	Beam	Single Angle	A36 Gr.36	Typical	2.18	4.09	1.9	.027

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N2	N15A			Standoff_1	Beam	Tube	A500 Gr.B...	Typical
2	M2	N15A	N16A			Standoff_2	Beam	Tube	A500 Gr.B...	Typical
3	M5	N14	N10		180	Grating Angle	Beam	Double Angle (...	A36 Gr.36	Typical
4	M6	N16	N15		180	Grating Angle	Beam	Double Angle (...	A36 Gr.36	Typical
5	M7	N18	N17		180	Grating Angle	Beam	Double Angle (...	A36 Gr.36	Typical
6	M6A	N17	N15		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
7	M7A	N16	N18		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
8	M23A	N10	N17		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
9	M24	N18	N14		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
10	M38	N77	N78			Standoff_1	Beam	Tube	A500 Gr.B...	Typical
11	M39A	N15	N10		270	Cross Members	Beam	Channel	A36 Gr.36	Typical
12	M40	N14	N16		270	Face Horizontal	Beam	Single Angle	A36 Gr.36	Typical
13	M54	N109	N110			Standoff_1	Beam	Tube	A500 Gr.B...	Typical
14	M55	N78	N108A			Standoff_2	Beam	Tube	A500 Gr.B...	Typical
15	M56	N110	N110A			Standoff_2	Beam	Tube	A500 Gr.B...	Typical
16	M20	N39	N40			RIGID	None	None	RIGID	Typical
17	MP2A	N41	N42		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
18	M22	N44	N45A			RIGID	None	None	RIGID	Typical
19	MP3A	N46	N47		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
20	M24A	N49	N50			RIGID	None	None	RIGID	Typical
21	MP4A	N51	N52		120	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
22	M26	N54A	N55			RIGID	None	None	RIGID	Typical
23	MP1A	N56	N57		120	Dual Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
24	M24B	N51A	N52A			RIGID	None	None	RIGID	Typical
25	MP3C	N53	N54			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
26	M26A	N55A	N56A			RIGID	None	None	RIGID	Typical
27	MP4C	N57A	N58A			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
28	M28	N59	N60			RIGID	None	None	RIGID	Typical
29	MP5C	N61	N62			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
30	M30	N63	N64			RIGID	None	None	RIGID	Typical
31	MP2C	N65	N66			Dual Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
32	M32	N68	N69			RIGID	None	None	RIGID	Typical
33	MP2B	N70	N71		240	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
34	M34	N72	N73A			RIGID	None	None	RIGID	Typical
35	MP3B	N74	N75		240	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
36	M36	N76	N77A			RIGID	None	None	RIGID	Typical
37	MP4B	N78A	N79		240	Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
38	M38A	N80	N81			RIGID	None	None	RIGID	Typical
39	MP1B	N82	N83		240	Dual Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
40	M40A	N83A	N16A			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
41	M41	N82A	N15A			RIGID	None	None	RIGID	Typical
42	M42	N88	N110A			RIGID	None	None	RIGID	Typical
43	M43	N86	N110			RIGID	None	None	RIGID	Typical
44	M44	N85	N78			RIGID	None	None	RIGID	Typical
45	M45	N87	N108A			RIGID	None	None	RIGID	Typical
46	M46	N73	N88A			RIGID	None	None	RIGID	Typical
47	MP1C	N89	N90			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
48	M48	N95	N97			RIGID	None	None	RIGID	Typical
49	M49	N96	N98			RIGID	None	None	RIGID	Typical
50	LIGHT	N99	N100			Light Pipe	Beam	Pipe	A53 Gr.B	Typical
51	M51	N101	N102			RIGID	None	None	RIGID	Typical
52	OVP	N104	N103			Mount Pipe	Beam	Pipe	A53 Gr.B	Typical
53	M53	N107	N108			RIGID	None	None	RIGID	Typical
54	M54A	N109A	N110B			RIGID	None	None	RIGID	Typical
55	M55A	N111	N112			RIGID	None	None	RIGID	Typical
56	M56A	N113	N114			RIGID	None	None	RIGID	Typical
57	M57	N106	N115			RIGID	None	None	RIGID	Typical
58	M58	N116	N117			Support Rail	Beam	Pipe	A53 Gr.B	Typical
59	M59	N119	N120			RIGID	None	None	RIGID	Typical
60	M60	N118	N122			RIGID	None	None	RIGID	Typical
61	M61	N124	N125			RIGID	None	None	RIGID	Typical
62	M62	N123	N126			RIGID	None	None	RIGID	Typical
63	M63	N129	N130			RIGID	None	None	RIGID	Typical
64	M64	N128	N131			RIGID	None	None	RIGID	Typical
65	M65	N130A	N131A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
66	M66	N132	N133			Support Rail	Beam	Pipe	A53 Gr.B	Typical
67	M67	N122	N130		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
68	M68	N126	N120		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
69	M69	N131	N125		90	Support Rail C...	Beam	Single Angle	A36 Gr.36	Typical
70	M70	N134	N135			RIGID	None	None	RIGID	Typical
71	M71	N136	N137			RIGID	None	None	RIGID	Typical
72	M72	N138	N139			RIGID	None	None	RIGID	Typical
73	M73	N140	N141			RIGID	None	None	RIGID	Typical
74	M74	N142	N143			RIGID	None	None	RIGID	Typical
75	M75	N144	N145			RIGID	None	None	RIGID	Typical
76	M76	N146	N147			RIGID	None	None	RIGID	Typical
77	M77	N148	N149			RIGID	None	None	RIGID	Typical
78	M78	N16B	N151			Kicker Kit	Beam	Single Angle	A36 Gr.36	Typical
79	M79	N19	N152			Kicker Kit	Beam	Single Angle	A36 Gr.36	Typical
80	M80	N12	N150		2e-6	Kicker Kit	Beam	Single Angle	A36 Gr.36	Typical
81	M81	N153	N154			RIGID	None	None	RIGID	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Standoff_1	1.05			Lbyy						Lateral
2	M2	Standoff_2	2			Lbyy						Lateral
3	M5	Grating Angle	4			Lbyy						Lateral
4	M6	Grating Angle	4			Lbyy						Lateral
5	M7	Grating Angle	4			Lbyy						Lateral
6	M6A	Cross Mem...	7.433			Lbyy						Lateral
7	M7A	Face Horizo...	14.362			Lbyy						Lateral
8	M23A	Cross Mem...	7.433			Lbyy						Lateral
9	M24	Face Horizo...	14.362			Lbyy						Lateral
10	M38	Standoff_1	1.05			Lbyy						Lateral
11	M39A	Cross Mem...	7.433			Lbyy						Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
12	M40	Face Horizo...	14.362			Lbyy						Lateral
13	M54	Standoff 1	1.05			Lbyy						Lateral
14	M55	Standoff 2	2			Lbyy						Lateral
15	M56	Standoff 2	2			Lbyy						Lateral
16	MP2A	Mount Pipe	6			Lbyy						Lateral
17	MP3A	Mount Pipe	6			Lbyy						Lateral
18	MP4A	Mount Pipe	6			Lbyy						Lateral
19	MP1A	Dual Mount ...	6			Lbyy						Lateral
20	MP3C	Mount Pipe	6			Lbyy						Lateral
21	MP4C	Mount Pipe	6			Lbyy						Lateral
22	MP5C	Mount Pipe	6			Lbyy						Lateral
23	MP2C	Dual Mount ...	6			Lbyy						Lateral
24	MP2B	Mount Pipe	6			Lbyy						Lateral
25	MP3B	Mount Pipe	6			Lbyy						Lateral
26	MP4B	Mount Pipe	6			Lbyy						Lateral
27	MP1B	Dual Mount ...	6			Lbyy						Lateral
28	MP1C	Mount Pipe	6			Lbyy						Lateral
29	LIGHT	Light Pipe	1.333			Lbyy						Lateral
30	OVP	Mount Pipe	3			Lbyy						Lateral
31	M58	Support Rail	12.5			Lbyy						Lateral
32	M65	Support Rail	12.5			Lbyy						Lateral
33	M66	Support Rail	12.5			Lbyy						Lateral
34	M67	Support Rail...	1.534			Lbyy						Lateral
35	M68	Support Rail...	1.534			Lbyy						Lateral
36	M69	Support Rail...	1.534			Lbyy						Lateral
37	M78	Kicker Kit	6.132			Lbyy						Lateral
38	M79	Kicker Kit	6.132			Lbyy						Lateral
39	M80	Kicker Kit	6.132			Lbyy						Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-23	.92
2	MP1A	My	-.021	.92
3	MP1A	Mz	.019	.92
4	MP1A	Y	-23	4.42
5	MP1A	My	-.021	4.42
6	MP1A	Mz	.019	4.42
7	MP1B	Y	-23	.92
8	MP1B	My	-.006	.92
9	MP1B	Mz	-.028	.92
10	MP1B	Y	-23	4.42
11	MP1B	My	-.006	4.42
12	MP1B	Mz	-.028	4.42
13	MP1A	Y	-23	.92
14	MP1A	My	-.021	.92
15	MP1A	Mz	-.019	.92
16	MP1A	Y	-23	4.42
17	MP1A	My	-.021	4.42
18	MP1A	Mz	-.019	4.42
19	MP1B	Y	-23	.92
20	MP1B	My	.027	.92
21	MP1B	Mz	-.009	.92
22	MP1B	Y	-23	4.42
23	MP1B	My	.027	4.42
24	MP1B	Mz	-.009	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2C	Y	-23	.92
26	MP2C	My	.025	.92
27	MP2C	Mz	.013	.92
28	MP2C	Y	-23	4.42
29	MP2C	My	.025	4.42
30	MP2C	Mz	.013	4.42
31	MP2C	Y	-23	.92
32	MP2C	My	-.011	.92
33	MP2C	Mz	.026	.92
34	MP2C	Y	-23	4.42
35	MP2C	My	-.011	4.42
36	MP2C	Mz	.026	4.42
37	MP2A	Y	-43.55	1.67
38	MP2A	My	-.022	1.67
39	MP2A	Mz	0	1.67
40	MP2A	Y	-43.55	3.67
41	MP2A	My	-.022	3.67
42	MP2A	Mz	0	3.67
43	MP2B	Y	-43.55	1.67
44	MP2B	My	.011	1.67
45	MP2B	Mz	-.019	1.67
46	MP2B	Y	-43.55	3.67
47	MP2B	My	.011	3.67
48	MP2B	Mz	-.019	3.67
49	MP3C	Y	-43.55	1.67
50	MP3C	My	.007	1.67
51	MP3C	Mz	.02	1.67
52	MP3C	Y	-43.55	3.67
53	MP3C	My	.007	3.67
54	MP3C	Mz	.02	3.67
55	MP4A	Y	-6	.91
56	MP4A	My	-.003	.91
57	MP4A	Mz	0	.91
58	MP4A	Y	-6	4.42
59	MP4A	My	-.003	4.42
60	MP4A	Mz	0	4.42
61	MP4B	Y	-4.95	.92
62	MP4B	My	.001	.92
63	MP4B	Mz	-.002	.92
64	MP4B	Y	-4.95	4.42
65	MP4B	My	.001	4.42
66	MP4B	Mz	-.002	4.42
67	MP5C	Y	-4.95	.92
68	MP5C	My	.000846	.92
69	MP5C	Mz	.002	.92
70	MP5C	Y	-4.95	4.42
71	MP5C	My	.000846	4.42
72	MP5C	Mz	.002	4.42
73	OVP	Y	-32	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	-84.4	3.13
77	MP1A	My	.042	3.13
78	MP1A	Mz	0	3.13
79	MP1B	Y	-84.4	3.13
80	MP1B	My	-.021	3.13
81	MP1B	Mz	.037	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
82	MP2C	Y	-84.4	3.13
83	MP2C	My	-.014	3.13
84	MP2C	Mz	-.04	3.13
85	MP2A	Y	-70.3	3.13
86	MP2A	My	.035	3.13
87	MP2A	Mz	0	3.13
88	MP2B	Y	-70.3	3.13
89	MP2B	My	-.018	3.13
90	MP2B	Mz	.03	3.13
91	MP3C	Y	-70.3	3.13
92	MP3C	My	-.012	3.13
93	MP3C	Mz	-.033	3.13
94	LIGHT	Y	-3	0
95	LIGHT	My	0	0
96	LIGHT	Mz	0	0

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-81.559	.92
2	MP1A	My	-.075	.92
3	MP1A	Mz	.068	.92
4	MP1A	Y	-81.559	4.42
5	MP1A	My	-.075	4.42
6	MP1A	Mz	.068	4.42
7	MP1B	Y	-81.559	.92
8	MP1B	My	-.021	.92
9	MP1B	Mz	-.099	.92
10	MP1B	Y	-81.559	4.42
11	MP1B	My	-.021	4.42
12	MP1B	Mz	-.099	4.42
13	MP1A	Y	-81.559	.92
14	MP1A	My	-.075	.92
15	MP1A	Mz	-.068	.92
16	MP1A	Y	-81.559	4.42
17	MP1A	My	-.075	4.42
18	MP1A	Mz	-.068	4.42
19	MP1B	Y	-81.559	.92
20	MP1B	My	.096	.92
21	MP1B	Mz	-.031	.92
22	MP1B	Y	-81.559	4.42
23	MP1B	My	.096	4.42
24	MP1B	Mz	-.031	4.42
25	MP2C	Y	-81.559	.92
26	MP2C	My	.089	.92
27	MP2C	Mz	.047	.92
28	MP2C	Y	-81.559	4.42
29	MP2C	My	.089	4.42
30	MP2C	Mz	.047	4.42
31	MP2C	Y	-81.559	.92
32	MP2C	My	-.038	.92
33	MP2C	Mz	.093	.92
34	MP2C	Y	-81.559	4.42
35	MP2C	My	-.038	4.42
36	MP2C	Mz	.093	4.42
37	MP2A	Y	-35.211	1.67
38	MP2A	My	-.018	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP2A	Mz	0	1.67
40	MP2A	Y	-35.211	3.67
41	MP2A	My	-.018	3.67
42	MP2A	Mz	0	3.67
43	MP2B	Y	-35.211	1.67
44	MP2B	My	.009	1.67
45	MP2B	Mz	-.015	1.67
46	MP2B	Y	-35.211	3.67
47	MP2B	My	.009	3.67
48	MP2B	Mz	-.015	3.67
49	MP3C	Y	-35.211	1.67
50	MP3C	My	.006	1.67
51	MP3C	Mz	.017	1.67
52	MP3C	Y	-35.211	3.67
53	MP3C	My	.006	3.67
54	MP3C	Mz	.017	3.67
55	MP4A	Y	-30.368	.91
56	MP4A	My	-.015	.91
57	MP4A	Mz	0	.91
58	MP4A	Y	-30.368	4.42
59	MP4A	My	-.015	4.42
60	MP4A	Mz	0	4.42
61	MP4B	Y	-34.824	.92
62	MP4B	My	.009	.92
63	MP4B	Mz	-.015	.92
64	MP4B	Y	-34.824	4.42
65	MP4B	My	.009	4.42
66	MP4B	Mz	-.015	4.42
67	MP5C	Y	-34.824	.92
68	MP5C	My	.006	.92
69	MP5C	Mz	.016	.92
70	MP5C	Y	-34.824	4.42
71	MP5C	My	.006	4.42
72	MP5C	Mz	.016	4.42
73	OVP	Y	-86.935	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	-44.385	3.13
77	MP1A	My	.022	3.13
78	MP1A	Mz	0	3.13
79	MP1B	Y	-44.385	3.13
80	MP1B	My	-.011	3.13
81	MP1B	Mz	.019	3.13
82	MP2C	Y	-44.385	3.13
83	MP2C	My	-.008	3.13
84	MP2C	Mz	-.021	3.13
85	MP2A	Y	-39.913	3.13
86	MP2A	My	.02	3.13
87	MP2A	Mz	0	3.13
88	MP2B	Y	-39.913	3.13
89	MP2B	My	-.01	3.13
90	MP2B	Mz	.017	3.13
91	MP3C	Y	-39.913	3.13
92	MP3C	My	-.007	3.13
93	MP3C	Mz	-.019	3.13
94	LIGHT	Y	-3.505	0
95	LIGHT	My	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
96	LIGHT	Mz	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.92
2	MP1A	Z	-201.093	.92
3	MP1A	Mx	-.168	.92
4	MP1A	X	0	4.42
5	MP1A	Z	-201.093	4.42
6	MP1A	Mx	-.168	4.42
7	MP1B	X	0	.92
8	MP1B	Z	-162.402	.92
9	MP1B	Mx	.197	.92
10	MP1B	X	0	4.42
11	MP1B	Z	-162.402	4.42
12	MP1B	Mx	.197	4.42
13	MP1A	X	0	.92
14	MP1A	Z	-201.093	.92
15	MP1A	Mx	.168	.92
16	MP1A	X	0	4.42
17	MP1A	Z	-201.093	4.42
18	MP1A	Mx	.168	4.42
19	MP1B	X	0	.92
20	MP1B	Z	-162.402	.92
21	MP1B	Mx	.061	.92
22	MP1B	X	0	4.42
23	MP1B	Z	-162.402	4.42
24	MP1B	Mx	.061	4.42
25	MP2C	X	0	.92
26	MP2C	Z	-155.539	.92
27	MP2C	Mx	-.09	.92
28	MP2C	X	0	4.42
29	MP2C	Z	-155.539	4.42
30	MP2C	Mx	-.09	4.42
31	MP2C	X	0	.92
32	MP2C	Z	-155.539	.92
33	MP2C	Mx	-.178	.92
34	MP2C	X	0	4.42
35	MP2C	Z	-155.539	4.42
36	MP2C	Mx	-.178	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	-95.759	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	-95.759	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	-52.057	1.67
45	MP2B	Mx	.023	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	-52.057	3.67
48	MP2B	Mx	.023	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	-44.306	1.67
51	MP3C	Mx	-.021	1.67
52	MP3C	X	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP3C	Z	-44.306	3.67
54	MP3C	Mx	-.021	3.67
55	MP4A	X	0	.91
56	MP4A	Z	-72.532	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	-72.532	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	-61.33	.92
63	MP4B	Mx	.027	.92
64	MP4B	X	0	4.42
65	MP4B	Z	-61.33	4.42
66	MP4B	Mx	.027	4.42
67	MP5C	X	0	.92
68	MP5C	Z	-55.151	.92
69	MP5C	Mx	-.026	.92
70	MP5C	X	0	4.42
71	MP5C	Z	-55.151	4.42
72	MP5C	Mx	-.026	4.42
73	OVP	X	0	1
74	OVP	Z	-155.633	1
75	OVP	Mx	0	1
76	MP1A	X	0	3.13
77	MP1A	Z	-76.199	3.13
78	MP1A	Mx	0	3.13
79	MP1B	X	0	3.13
80	MP1B	Z	-57.251	3.13
81	MP1B	Mx	-.025	3.13
82	MP2C	X	0	3.13
83	MP2C	Z	-53.891	3.13
84	MP2C	Mx	.025	3.13
85	MP2A	X	0	3.13
86	MP2A	Z	-76.199	3.13
87	MP2A	Mx	0	3.13
88	MP2B	X	0	3.13
89	MP2B	Z	-49.993	3.13
90	MP2B	Mx	-.022	3.13
91	MP3C	X	0	3.13
92	MP3C	Z	-45.345	3.13
93	MP3C	Mx	.021	3.13
94	LIGHT	X	0	0
95	LIGHT	Z	-8.829	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	94.098	.92
2	MP1A	Z	-162.982	.92
3	MP1A	Mx	-.222	.92
4	MP1A	X	94.098	4.42
5	MP1A	Z	-162.982	4.42
6	MP1A	Mx	-.222	4.42
7	MP1B	X	74.752	.92
8	MP1B	Z	-129.475	.92
9	MP1B	Mx	.137	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP1B	X	74.752	4.42
11	MP1B	Z	-129.475	4.42
12	MP1B	Mx	.137	4.42
13	MP1A	X	94.098	.92
14	MP1A	Z	-162.982	.92
15	MP1A	Mx	.05	.92
16	MP1A	X	94.098	4.42
17	MP1A	Z	-162.982	4.42
18	MP1A	Mx	.05	4.42
19	MP1B	X	74.752	.92
20	MP1B	Z	-129.475	.92
21	MP1B	Mx	.137	.92
22	MP1B	X	74.752	4.42
23	MP1B	Z	-129.475	4.42
24	MP1B	Mx	.137	4.42
25	MP2C	X	89.889	.92
26	MP2C	Z	-155.692	.92
27	MP2C	Mx	.009	.92
28	MP2C	X	89.889	4.42
29	MP2C	Z	-155.692	4.42
30	MP2C	Mx	.009	4.42
31	MP2C	X	89.889	.92
32	MP2C	Z	-155.692	.92
33	MP2C	Mx	-.221	.92
34	MP2C	X	89.889	4.42
35	MP2C	Z	-155.692	4.42
36	MP2C	Mx	-.221	4.42
37	MP2A	X	40.596	1.67
38	MP2A	Z	-70.314	1.67
39	MP2A	Mx	-.02	1.67
40	MP2A	X	40.596	3.67
41	MP2A	Z	-70.314	3.67
42	MP2A	Mx	-.02	3.67
43	MP2B	X	18.745	1.67
44	MP2B	Z	-32.467	1.67
45	MP2B	Mx	.019	1.67
46	MP2B	X	18.745	3.67
47	MP2B	Z	-32.467	3.67
48	MP2B	Mx	.019	3.67
49	MP3C	X	35.842	1.67
50	MP3C	Z	-62.079	1.67
51	MP3C	Mx	-.023	1.67
52	MP3C	X	35.842	3.67
53	MP3C	Z	-62.079	3.67
54	MP3C	Mx	-.023	3.67
55	MP4A	X	34.312	.91
56	MP4A	Z	-59.43	.91
57	MP4A	Mx	-.017	.91
58	MP4A	X	34.312	4.42
59	MP4A	Z	-59.43	4.42
60	MP4A	Mx	-.017	4.42
61	MP4B	X	24.859	.92
62	MP4B	Z	-43.057	.92
63	MP4B	Mx	.025	.92
64	MP4B	X	24.859	4.42
65	MP4B	Z	-43.057	4.42
66	MP4B	Mx	.025	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
67	MP5C	X	38.487	.92
68	MP5C	Z	-66.662	.92
69	MP5C	Mx	-.025	.92
70	MP5C	X	38.487	4.42
71	MP5C	Z	-66.662	4.42
72	MP5C	Mx	-.025	4.42
73	OVP	X	68.012	1
74	OVP	Z	-117.799	1
75	OVP	Mx	0	1
76	MP1A	X	34.942	3.13
77	MP1A	Z	-60.521	3.13
78	MP1A	Mx	.017	3.13
79	MP1B	X	25.468	3.13
80	MP1B	Z	-44.111	3.13
81	MP1B	Mx	-.025	3.13
82	MP2C	X	32.88	3.13
83	MP2C	Z	-56.951	3.13
84	MP2C	Mx	.021	3.13
85	MP2A	X	33.732	3.13
86	MP2A	Z	-58.425	3.13
87	MP2A	Mx	.017	3.13
88	MP2B	X	20.629	3.13
89	MP2B	Z	-35.73	3.13
90	MP2B	Mx	-.021	3.13
91	MP3C	X	30.881	3.13
92	MP3C	Z	-53.488	3.13
93	MP3C	Mx	.02	3.13
94	LIGHT	X	5.094	0
95	LIGHT	Z	-8.822	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	140.644	.92
2	MP1A	Z	-81.201	.92
3	MP1A	Mx	-.197	.92
4	MP1A	X	140.644	4.42
5	MP1A	Z	-81.201	4.42
6	MP1A	Mx	-.197	4.42
7	MP1B	X	140.644	.92
8	MP1B	Z	-81.201	.92
9	MP1B	Mx	.061	.92
10	MP1B	X	140.644	4.42
11	MP1B	Z	-81.201	4.42
12	MP1B	Mx	.061	4.42
13	MP1A	X	140.644	.92
14	MP1A	Z	-81.201	.92
15	MP1A	Mx	-.061	.92
16	MP1A	X	140.644	4.42
17	MP1A	Z	-81.201	4.42
18	MP1A	Mx	-.061	4.42
19	MP1B	X	140.644	.92
20	MP1B	Z	-81.201	.92
21	MP1B	Mx	.197	.92
22	MP1B	X	140.644	4.42
23	MP1B	Z	-81.201	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP1B	Mx	.197	4.42
25	MP2C	X	172.804	.92
26	MP2C	Z	-99.769	.92
27	MP2C	Mx	.132	.92
28	MP2C	X	172.804	4.42
29	MP2C	Z	-99.769	4.42
30	MP2C	Mx	.132	4.42
31	MP2C	X	172.804	.92
32	MP2C	Z	-99.769	.92
33	MP2C	Mx	-.196	.92
34	MP2C	X	172.804	4.42
35	MP2C	Z	-99.769	4.42
36	MP2C	Mx	-.196	4.42
37	MP2A	X	45.082	1.67
38	MP2A	Z	-26.028	1.67
39	MP2A	Mx	-.023	1.67
40	MP2A	X	45.082	3.67
41	MP2A	Z	-26.028	3.67
42	MP2A	Mx	-.023	3.67
43	MP2B	X	45.082	1.67
44	MP2B	Z	-26.028	1.67
45	MP2B	Mx	.023	1.67
46	MP2B	X	45.082	3.67
47	MP2B	Z	-26.028	3.67
48	MP2B	Mx	.023	3.67
49	MP3C	X	81.408	1.67
50	MP3C	Z	-47.001	1.67
51	MP3C	Mx	-.008	1.67
52	MP3C	X	81.408	3.67
53	MP3C	Z	-47.001	3.67
54	MP3C	Mx	-.008	3.67
55	MP4A	X	52.662	.91
56	MP4A	Z	-30.405	.91
57	MP4A	Mx	-.026	.91
58	MP4A	X	52.662	4.42
59	MP4A	Z	-30.405	4.42
60	MP4A	Mx	-.026	4.42
61	MP4B	X	53.113	.92
62	MP4B	Z	-30.665	.92
63	MP4B	Mx	.027	.92
64	MP4B	X	53.113	4.42
65	MP4B	Z	-30.665	4.42
66	MP4B	Mx	.027	4.42
67	MP5C	X	82.069	.92
68	MP5C	Z	-47.383	.92
69	MP5C	Mx	-.008	.92
70	MP5C	X	82.069	4.42
71	MP5C	Z	-47.383	4.42
72	MP5C	Mx	-.008	4.42
73	OVP	X	109.308	1
74	OVP	Z	-63.109	1
75	OVP	Mx	0	1
76	MP1A	X	49.581	3.13
77	MP1A	Z	-28.626	3.13
78	MP1A	Mx	.025	3.13
79	MP1B	X	49.581	3.13
80	MP1B	Z	-28.626	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
81	MP1B	Mx	-.025	3.13
82	MP2C	X	65.331	3.13
83	MP2C	Z	-37.719	3.13
84	MP2C	Mx	.007	3.13
85	MP2A	X	43.295	3.13
86	MP2A	Z	-24.997	3.13
87	MP2A	Mx	.022	3.13
88	MP2B	X	43.295	3.13
89	MP2B	Z	-24.997	3.13
90	MP2B	Mx	-.022	3.13
91	MP3C	X	65.078	3.13
92	MP3C	Z	-37.573	3.13
93	MP3C	Mx	.007	3.13
94	LIGHT	X	9.41	0
95	LIGHT	Z	-5.433	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	149.505	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	-.137	.92
4	MP1A	X	149.505	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	-.137	4.42
7	MP1B	X	188.196	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	-.05	.92
10	MP1B	X	188.196	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	-.05	4.42
13	MP1A	X	149.505	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	-.137	.92
16	MP1A	X	149.505	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	-.137	4.42
19	MP1B	X	188.196	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	.222	.92
22	MP1B	X	188.196	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	.222	4.42
25	MP2C	X	195.058	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	.214	.92
28	MP2C	X	195.058	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	.214	4.42
31	MP2C	X	195.058	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	-.092	.92
34	MP2C	X	195.058	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	-.092	4.42
37	MP2A	X	37.489	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP2A	Z	0	1.67
39	MP2A	Mx	-.019	1.67
40	MP2A	X	37.489	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	-.019	3.67
43	MP2B	X	81.191	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	.02	1.67
46	MP2B	X	81.191	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	.02	3.67
49	MP3C	X	88.942	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	.015	1.67
52	MP3C	X	88.942	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	.015	3.67
55	MP4A	X	56.901	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	-.028	.91
58	MP4A	X	56.901	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	-.028	4.42
61	MP4B	X	84.554	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	.021	.92
64	MP4B	X	84.554	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	.021	4.42
67	MP5C	X	90.733	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	.016	.92
70	MP5C	X	90.733	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	.016	4.42
73	OVP	X	136.023	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	50.935	3.13
77	MP1A	Z	0	3.13
78	MP1A	Mx	.025	3.13
79	MP1B	X	69.883	3.13
80	MP1B	Z	0	3.13
81	MP1B	Mx	-.017	3.13
82	MP2C	X	73.244	3.13
83	MP2C	Z	0	3.13
84	MP2C	Mx	-.013	3.13
85	MP2A	X	41.258	3.13
86	MP2A	Z	0	3.13
87	MP2A	Mx	.021	3.13
88	MP2B	X	67.464	3.13
89	MP2B	Z	0	3.13
90	MP2B	Mx	-.017	3.13
91	MP3C	X	72.112	3.13
92	MP3C	Z	0	3.13
93	MP3C	Mx	-.012	3.13
94	LIGHT	X	10.187	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	LIGHT	Z	0	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	140.644	.92
2	MP1A	Z	81.201	.92
3	MP1A	Mx	-.061	.92
4	MP1A	X	140.644	4.42
5	MP1A	Z	81.201	4.42
6	MP1A	Mx	-.061	4.42
7	MP1B	X	174.152	.92
8	MP1B	Z	100.547	.92
9	MP1B	Mx	-.168	.92
10	MP1B	X	174.152	4.42
11	MP1B	Z	100.547	4.42
12	MP1B	Mx	-.168	4.42
13	MP1A	X	140.644	.92
14	MP1A	Z	81.201	.92
15	MP1A	Mx	-.197	.92
16	MP1A	X	140.644	4.42
17	MP1A	Z	81.201	4.42
18	MP1A	Mx	-.197	4.42
19	MP1B	X	174.152	.92
20	MP1B	Z	100.547	.92
21	MP1B	Mx	.168	.92
22	MP1B	X	174.152	4.42
23	MP1B	Z	100.547	4.42
24	MP1B	Mx	.168	4.42
25	MP2C	X	147.934	.92
26	MP2C	Z	85.41	.92
27	MP2C	Mx	.211	.92
28	MP2C	X	147.934	4.42
29	MP2C	Z	85.41	4.42
30	MP2C	Mx	.211	4.42
31	MP2C	X	147.934	.92
32	MP2C	Z	85.41	.92
33	MP2C	Mx	.028	.92
34	MP2C	X	147.934	4.42
35	MP2C	Z	85.41	4.42
36	MP2C	Mx	.028	4.42
37	MP2A	X	45.082	1.67
38	MP2A	Z	26.028	1.67
39	MP2A	Mx	-.023	1.67
40	MP2A	X	45.082	3.67
41	MP2A	Z	26.028	3.67
42	MP2A	Mx	-.023	3.67
43	MP2B	X	82.929	1.67
44	MP2B	Z	47.879	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	82.929	3.67
47	MP2B	Z	47.879	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	53.317	1.67
50	MP3C	Z	30.782	1.67
51	MP3C	Mx	.024	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP3C	X	53.317	3.67
53	MP3C	Z	30.782	3.67
54	MP3C	Mx	.024	3.67
55	MP4A	X	52.662	.91
56	MP4A	Z	30.405	.91
57	MP4A	Mx	-.026	.91
58	MP4A	X	52.662	4.42
59	MP4A	Z	30.405	4.42
60	MP4A	Mx	-.026	4.42
61	MP4B	X	83.282	.92
62	MP4B	Z	48.083	.92
63	MP4B	Mx	0	.92
64	MP4B	X	83.282	4.42
65	MP4B	Z	48.083	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	59.677	.92
68	MP5C	Z	34.454	.92
69	MP5C	Mx	.026	.92
70	MP5C	X	59.677	4.42
71	MP5C	Z	34.454	4.42
72	MP5C	Mx	.026	4.42
73	OVP	X	134.782	1
74	OVP	Z	77.817	1
75	OVP	Mx	0	1
76	MP1A	X	49.581	3.13
77	MP1A	Z	28.626	3.13
78	MP1A	Mx	.025	3.13
79	MP1B	X	65.991	3.13
80	MP1B	Z	38.1	3.13
81	MP1B	Mx	0	3.13
82	MP2C	X	53.151	3.13
83	MP2C	Z	30.687	3.13
84	MP2C	Mx	-.024	3.13
85	MP2A	X	43.295	3.13
86	MP2A	Z	24.997	3.13
87	MP2A	Mx	.022	3.13
88	MP2B	X	65.991	3.13
89	MP2B	Z	38.1	3.13
90	MP2B	Mx	0	3.13
91	MP3C	X	48.233	3.13
92	MP3C	Z	27.847	3.13
93	MP3C	Mx	-.021	3.13
94	LIGHT	X	7.646	0
95	LIGHT	Z	4.414	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	94.098	.92
2	MP1A	Z	162.982	.92
3	MP1A	Mx	.05	.92
4	MP1A	X	94.098	4.42
5	MP1A	Z	162.982	4.42
6	MP1A	Mx	.05	4.42
7	MP1B	X	94.098	.92
8	MP1B	Z	162.982	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP1B	Mx	-.222	.92
10	MP1B	X	94.098	4.42
11	MP1B	Z	162.982	4.42
12	MP1B	Mx	-.222	4.42
13	MP1A	X	94.098	.92
14	MP1A	Z	162.982	.92
15	MP1A	Mx	-.222	.92
16	MP1A	X	94.098	4.42
17	MP1A	Z	162.982	4.42
18	MP1A	Mx	-.222	4.42
19	MP1B	X	94.098	.92
20	MP1B	Z	162.982	.92
21	MP1B	Mx	.05	.92
22	MP1B	X	94.098	4.42
23	MP1B	Z	162.982	4.42
24	MP1B	Mx	.05	4.42
25	MP2C	X	75.53	.92
26	MP2C	Z	130.822	.92
27	MP2C	Mx	.158	.92
28	MP2C	X	75.53	4.42
29	MP2C	Z	130.822	4.42
30	MP2C	Mx	.158	4.42
31	MP2C	X	75.53	.92
32	MP2C	Z	130.822	.92
33	MP2C	Mx	.115	.92
34	MP2C	X	75.53	4.42
35	MP2C	Z	130.822	4.42
36	MP2C	Mx	.115	4.42
37	MP2A	X	40.596	1.67
38	MP2A	Z	70.314	1.67
39	MP2A	Mx	-.02	1.67
40	MP2A	X	40.596	3.67
41	MP2A	Z	70.314	3.67
42	MP2A	Mx	-.02	3.67
43	MP2B	X	40.596	1.67
44	MP2B	Z	70.314	1.67
45	MP2B	Mx	-.02	1.67
46	MP2B	X	40.596	3.67
47	MP2B	Z	70.314	3.67
48	MP2B	Mx	-.02	3.67
49	MP3C	X	19.623	1.67
50	MP3C	Z	33.988	1.67
51	MP3C	Mx	.019	1.67
52	MP3C	X	19.623	3.67
53	MP3C	Z	33.988	3.67
54	MP3C	Mx	.019	3.67
55	MP4A	X	34.312	.91
56	MP4A	Z	59.43	.91
57	MP4A	Mx	-.017	.91
58	MP4A	X	34.312	4.42
59	MP4A	Z	59.43	4.42
60	MP4A	Mx	-.017	4.42
61	MP4B	X	42.277	.92
62	MP4B	Z	73.226	.92
63	MP4B	Mx	-.021	.92
64	MP4B	X	42.277	4.42
65	MP4B	Z	73.226	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP4B	Mx	-.021	4.42
67	MP5C	X	25.559	.92
68	MP5C	Z	44.27	.92
69	MP5C	Mx	.025	.92
70	MP5C	X	25.559	4.42
71	MP5C	Z	44.27	4.42
72	MP5C	Mx	.025	4.42
73	OVP	X	82.719	1
74	OVP	Z	143.274	1
75	OVP	Mx	0	1
76	MP1A	X	34.942	3.13
77	MP1A	Z	60.521	3.13
78	MP1A	Mx	.017	3.13
79	MP1B	X	34.942	3.13
80	MP1B	Z	60.521	3.13
81	MP1B	Mx	.017	3.13
82	MP2C	X	25.849	3.13
83	MP2C	Z	44.771	3.13
84	MP2C	Mx	-.025	3.13
85	MP2A	X	33.732	3.13
86	MP2A	Z	58.425	3.13
87	MP2A	Mx	.017	3.13
88	MP2B	X	33.732	3.13
89	MP2B	Z	58.425	3.13
90	MP2B	Mx	.017	3.13
91	MP3C	X	21.156	3.13
92	MP3C	Z	36.643	3.13
93	MP3C	Mx	-.021	3.13
94	LIGHT	X	4.075	0
95	LIGHT	Z	7.058	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.92
2	MP1A	Z	201.093	.92
3	MP1A	Mx	.168	.92
4	MP1A	X	0	4.42
5	MP1A	Z	201.093	4.42
6	MP1A	Mx	.168	4.42
7	MP1B	X	0	.92
8	MP1B	Z	162.402	.92
9	MP1B	Mx	-.197	.92
10	MP1B	X	0	4.42
11	MP1B	Z	162.402	4.42
12	MP1B	Mx	-.197	4.42
13	MP1A	X	0	.92
14	MP1A	Z	201.093	.92
15	MP1A	Mx	-.168	.92
16	MP1A	X	0	4.42
17	MP1A	Z	201.093	4.42
18	MP1A	Mx	-.168	4.42
19	MP1B	X	0	.92
20	MP1B	Z	162.402	.92
21	MP1B	Mx	-.061	.92
22	MP1B	X	0	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP1B	Z	162.402	4.42
24	MP1B	Mx	-.061	4.42
25	MP2C	X	0	.92
26	MP2C	Z	155.539	.92
27	MP2C	Mx	.09	.92
28	MP2C	X	0	4.42
29	MP2C	Z	155.539	4.42
30	MP2C	Mx	.09	4.42
31	MP2C	X	0	.92
32	MP2C	Z	155.539	.92
33	MP2C	Mx	.178	.92
34	MP2C	X	0	4.42
35	MP2C	Z	155.539	4.42
36	MP2C	Mx	.178	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	95.759	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	95.759	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	52.057	1.67
45	MP2B	Mx	-.023	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	52.057	3.67
48	MP2B	Mx	-.023	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	44.306	1.67
51	MP3C	Mx	.021	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	44.306	3.67
54	MP3C	Mx	.021	3.67
55	MP4A	X	0	.91
56	MP4A	Z	72.532	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	72.532	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	61.33	.92
63	MP4B	Mx	-.027	.92
64	MP4B	X	0	4.42
65	MP4B	Z	61.33	4.42
66	MP4B	Mx	-.027	4.42
67	MP5C	X	0	.92
68	MP5C	Z	55.151	.92
69	MP5C	Mx	.026	.92
70	MP5C	X	0	4.42
71	MP5C	Z	55.151	4.42
72	MP5C	Mx	.026	4.42
73	OVP	X	0	1
74	OVP	Z	155.633	1
75	OVP	Mx	0	1
76	MP1A	X	0	3.13
77	MP1A	Z	76.199	3.13
78	MP1A	Mx	0	3.13
79	MP1B	X	0	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP1B	Z	57.251	3.13
81	MP1B	Mx	.025	3.13
82	MP2C	X	0	3.13
83	MP2C	Z	53.891	3.13
84	MP2C	Mx	-.025	3.13
85	MP2A	X	0	3.13
86	MP2A	Z	76.199	3.13
87	MP2A	Mx	0	3.13
88	MP2B	X	0	3.13
89	MP2B	Z	49.993	3.13
90	MP2B	Mx	.022	3.13
91	MP3C	X	0	3.13
92	MP3C	Z	45.345	3.13
93	MP3C	Mx	-.021	3.13
94	LIGHT	X	0	0
95	LIGHT	Z	8.829	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-94.098	.92
2	MP1A	Z	162.982	.92
3	MP1A	Mx	.222	.92
4	MP1A	X	-94.098	4.42
5	MP1A	Z	162.982	4.42
6	MP1A	Mx	.222	4.42
7	MP1B	X	-74.752	.92
8	MP1B	Z	129.475	.92
9	MP1B	Mx	-.137	.92
10	MP1B	X	-74.752	4.42
11	MP1B	Z	129.475	4.42
12	MP1B	Mx	-.137	4.42
13	MP1A	X	-94.098	.92
14	MP1A	Z	162.982	.92
15	MP1A	Mx	-.05	.92
16	MP1A	X	-94.098	4.42
17	MP1A	Z	162.982	4.42
18	MP1A	Mx	-.05	4.42
19	MP1B	X	-74.752	.92
20	MP1B	Z	129.475	.92
21	MP1B	Mx	-.137	.92
22	MP1B	X	-74.752	4.42
23	MP1B	Z	129.475	4.42
24	MP1B	Mx	-.137	4.42
25	MP2C	X	-89.889	.92
26	MP2C	Z	155.692	.92
27	MP2C	Mx	-.009	.92
28	MP2C	X	-89.889	4.42
29	MP2C	Z	155.692	4.42
30	MP2C	Mx	-.009	4.42
31	MP2C	X	-89.889	.92
32	MP2C	Z	155.692	.92
33	MP2C	Mx	.221	.92
34	MP2C	X	-89.889	4.42
35	MP2C	Z	155.692	4.42
36	MP2C	Mx	.221	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2A	X	-40.596	1.67
38	MP2A	Z	70.314	1.67
39	MP2A	Mx	.02	1.67
40	MP2A	X	-40.596	3.67
41	MP2A	Z	70.314	3.67
42	MP2A	Mx	.02	3.67
43	MP2B	X	-18.745	1.67
44	MP2B	Z	32.467	1.67
45	MP2B	Mx	-.019	1.67
46	MP2B	X	-18.745	3.67
47	MP2B	Z	32.467	3.67
48	MP2B	Mx	-.019	3.67
49	MP3C	X	-35.842	1.67
50	MP3C	Z	62.079	1.67
51	MP3C	Mx	.023	1.67
52	MP3C	X	-35.842	3.67
53	MP3C	Z	62.079	3.67
54	MP3C	Mx	.023	3.67
55	MP4A	X	-34.312	.91
56	MP4A	Z	59.43	.91
57	MP4A	Mx	.017	.91
58	MP4A	X	-34.312	4.42
59	MP4A	Z	59.43	4.42
60	MP4A	Mx	.017	4.42
61	MP4B	X	-24.859	.92
62	MP4B	Z	43.057	.92
63	MP4B	Mx	-.025	.92
64	MP4B	X	-24.859	4.42
65	MP4B	Z	43.057	4.42
66	MP4B	Mx	-.025	4.42
67	MP5C	X	-38.487	.92
68	MP5C	Z	66.662	.92
69	MP5C	Mx	.025	.92
70	MP5C	X	-38.487	4.42
71	MP5C	Z	66.662	4.42
72	MP5C	Mx	.025	4.42
73	OVP	X	-68.012	1
74	OVP	Z	117.799	1
75	OVP	Mx	0	1
76	MP1A	X	-34.942	3.13
77	MP1A	Z	60.521	3.13
78	MP1A	Mx	-.017	3.13
79	MP1B	X	-25.468	3.13
80	MP1B	Z	44.111	3.13
81	MP1B	Mx	.025	3.13
82	MP2C	X	-32.88	3.13
83	MP2C	Z	56.951	3.13
84	MP2C	Mx	-.021	3.13
85	MP2A	X	-33.732	3.13
86	MP2A	Z	58.425	3.13
87	MP2A	Mx	-.017	3.13
88	MP2B	X	-20.629	3.13
89	MP2B	Z	35.73	3.13
90	MP2B	Mx	.021	3.13
91	MP3C	X	-30.881	3.13
92	MP3C	Z	53.488	3.13
93	MP3C	Mx	-.02	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	LIGHT	X	-5.094	0
95	LIGHT	Z	8.822	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-140.644	.92
2	MP1A	Z	81.201	.92
3	MP1A	Mx	.197	.92
4	MP1A	X	-140.644	4.42
5	MP1A	Z	81.201	4.42
6	MP1A	Mx	.197	4.42
7	MP1B	X	-140.644	.92
8	MP1B	Z	81.201	.92
9	MP1B	Mx	-.061	.92
10	MP1B	X	-140.644	4.42
11	MP1B	Z	81.201	4.42
12	MP1B	Mx	-.061	4.42
13	MP1A	X	-140.644	.92
14	MP1A	Z	81.201	.92
15	MP1A	Mx	.061	.92
16	MP1A	X	-140.644	4.42
17	MP1A	Z	81.201	4.42
18	MP1A	Mx	.061	4.42
19	MP1B	X	-140.644	.92
20	MP1B	Z	81.201	.92
21	MP1B	Mx	-.197	.92
22	MP1B	X	-140.644	4.42
23	MP1B	Z	81.201	4.42
24	MP1B	Mx	-.197	4.42
25	MP2C	X	-172.804	.92
26	MP2C	Z	99.769	.92
27	MP2C	Mx	-.132	.92
28	MP2C	X	-172.804	4.42
29	MP2C	Z	99.769	4.42
30	MP2C	Mx	-.132	4.42
31	MP2C	X	-172.804	.92
32	MP2C	Z	99.769	.92
33	MP2C	Mx	.196	.92
34	MP2C	X	-172.804	4.42
35	MP2C	Z	99.769	4.42
36	MP2C	Mx	.196	4.42
37	MP2A	X	-45.082	1.67
38	MP2A	Z	26.028	1.67
39	MP2A	Mx	.023	1.67
40	MP2A	X	-45.082	3.67
41	MP2A	Z	26.028	3.67
42	MP2A	Mx	.023	3.67
43	MP2B	X	-45.082	1.67
44	MP2B	Z	26.028	1.67
45	MP2B	Mx	-.023	1.67
46	MP2B	X	-45.082	3.67
47	MP2B	Z	26.028	3.67
48	MP2B	Mx	-.023	3.67
49	MP3C	X	-81.408	1.67
50	MP3C	Z	47.001	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP3C	Mx	.008	1.67
52	MP3C	X	-81.408	3.67
53	MP3C	Z	47.001	3.67
54	MP3C	Mx	.008	3.67
55	MP4A	X	-52.662	.91
56	MP4A	Z	30.405	.91
57	MP4A	Mx	.026	.91
58	MP4A	X	-52.662	4.42
59	MP4A	Z	30.405	4.42
60	MP4A	Mx	.026	4.42
61	MP4B	X	-53.113	.92
62	MP4B	Z	30.665	.92
63	MP4B	Mx	-.027	.92
64	MP4B	X	-53.113	4.42
65	MP4B	Z	30.665	4.42
66	MP4B	Mx	-.027	4.42
67	MP5C	X	-82.069	.92
68	MP5C	Z	47.383	.92
69	MP5C	Mx	.008	.92
70	MP5C	X	-82.069	4.42
71	MP5C	Z	47.383	4.42
72	MP5C	Mx	.008	4.42
73	OVP	X	-109.308	1
74	OVP	Z	63.109	1
75	OVP	Mx	0	1
76	MP1A	X	-49.581	3.13
77	MP1A	Z	28.626	3.13
78	MP1A	Mx	-.025	3.13
79	MP1B	X	-49.581	3.13
80	MP1B	Z	28.626	3.13
81	MP1B	Mx	.025	3.13
82	MP2C	X	-65.331	3.13
83	MP2C	Z	37.719	3.13
84	MP2C	Mx	-.007	3.13
85	MP2A	X	-43.295	3.13
86	MP2A	Z	24.997	3.13
87	MP2A	Mx	-.022	3.13
88	MP2B	X	-43.295	3.13
89	MP2B	Z	24.997	3.13
90	MP2B	Mx	.022	3.13
91	MP3C	X	-65.078	3.13
92	MP3C	Z	37.573	3.13
93	MP3C	Mx	-.007	3.13
94	LIGHT	X	-9.41	0
95	LIGHT	Z	5.433	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-149.505	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	.137	.92
4	MP1A	X	-149.505	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	.137	4.42
7	MP1B	X	-188.196	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP1B	Z	0	.92
9	MP1B	Mx	.05	.92
10	MP1B	X	-188.196	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	.05	4.42
13	MP1A	X	-149.505	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	.137	.92
16	MP1A	X	-149.505	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	.137	4.42
19	MP1B	X	-188.196	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	-.222	.92
22	MP1B	X	-188.196	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	-.222	4.42
25	MP2C	X	-195.058	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	-.214	.92
28	MP2C	X	-195.058	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	-.214	4.42
31	MP2C	X	-195.058	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	.092	.92
34	MP2C	X	-195.058	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	.092	4.42
37	MP2A	X	-37.489	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	.019	1.67
40	MP2A	X	-37.489	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	.019	3.67
43	MP2B	X	-81.191	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	-.02	1.67
46	MP2B	X	-81.191	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	-.02	3.67
49	MP3C	X	-88.942	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	-.015	1.67
52	MP3C	X	-88.942	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	-.015	3.67
55	MP4A	X	-56.901	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	.028	.91
58	MP4A	X	-56.901	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	.028	4.42
61	MP4B	X	-84.554	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	-.021	.92
64	MP4B	X	-84.554	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
65	MP4B	Z	0	4.42
66	MP4B	Mx	-.021	4.42
67	MP5C	X	-90.733	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	-.016	.92
70	MP5C	X	-90.733	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	-.016	4.42
73	OVP	X	-136.023	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-50.935	3.13
77	MP1A	Z	0	3.13
78	MP1A	Mx	-.025	3.13
79	MP1B	X	-69.883	3.13
80	MP1B	Z	0	3.13
81	MP1B	Mx	.017	3.13
82	MP2C	X	-73.244	3.13
83	MP2C	Z	0	3.13
84	MP2C	Mx	.013	3.13
85	MP2A	X	-41.258	3.13
86	MP2A	Z	0	3.13
87	MP2A	Mx	-.021	3.13
88	MP2B	X	-67.464	3.13
89	MP2B	Z	0	3.13
90	MP2B	Mx	.017	3.13
91	MP3C	X	-72.112	3.13
92	MP3C	Z	0	3.13
93	MP3C	Mx	.012	3.13
94	LIGHT	X	-10.187	0
95	LIGHT	Z	0	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-140.644	.92
2	MP1A	Z	-81.201	.92
3	MP1A	Mx	.061	.92
4	MP1A	X	-140.644	4.42
5	MP1A	Z	-81.201	4.42
6	MP1A	Mx	.061	4.42
7	MP1B	X	-174.152	.92
8	MP1B	Z	-100.547	.92
9	MP1B	Mx	.168	.92
10	MP1B	X	-174.152	4.42
11	MP1B	Z	-100.547	4.42
12	MP1B	Mx	.168	4.42
13	MP1A	X	-140.644	.92
14	MP1A	Z	-81.201	.92
15	MP1A	Mx	.197	.92
16	MP1A	X	-140.644	4.42
17	MP1A	Z	-81.201	4.42
18	MP1A	Mx	.197	4.42
19	MP1B	X	-174.152	.92
20	MP1B	Z	-100.547	.92
21	MP1B	Mx	-.168	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP1B	X	-174.152	4.42
23	MP1B	Z	-100.547	4.42
24	MP1B	Mx	-.168	4.42
25	MP2C	X	-147.934	.92
26	MP2C	Z	-85.41	.92
27	MP2C	Mx	-.211	.92
28	MP2C	X	-147.934	4.42
29	MP2C	Z	-85.41	4.42
30	MP2C	Mx	-.211	4.42
31	MP2C	X	-147.934	.92
32	MP2C	Z	-85.41	.92
33	MP2C	Mx	-.028	.92
34	MP2C	X	-147.934	4.42
35	MP2C	Z	-85.41	4.42
36	MP2C	Mx	-.028	4.42
37	MP2A	X	-45.082	1.67
38	MP2A	Z	-26.028	1.67
39	MP2A	Mx	.023	1.67
40	MP2A	X	-45.082	3.67
41	MP2A	Z	-26.028	3.67
42	MP2A	Mx	.023	3.67
43	MP2B	X	-82.929	1.67
44	MP2B	Z	-47.879	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	-82.929	3.67
47	MP2B	Z	-47.879	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	-53.317	1.67
50	MP3C	Z	-30.782	1.67
51	MP3C	Mx	-.024	1.67
52	MP3C	X	-53.317	3.67
53	MP3C	Z	-30.782	3.67
54	MP3C	Mx	-.024	3.67
55	MP4A	X	-52.662	.91
56	MP4A	Z	-30.405	.91
57	MP4A	Mx	.026	.91
58	MP4A	X	-52.662	4.42
59	MP4A	Z	-30.405	4.42
60	MP4A	Mx	.026	4.42
61	MP4B	X	-83.282	.92
62	MP4B	Z	-48.083	.92
63	MP4B	Mx	0	.92
64	MP4B	X	-83.282	4.42
65	MP4B	Z	-48.083	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	-59.677	.92
68	MP5C	Z	-34.454	.92
69	MP5C	Mx	-.026	.92
70	MP5C	X	-59.677	4.42
71	MP5C	Z	-34.454	4.42
72	MP5C	Mx	-.026	4.42
73	OVP	X	-134.782	1
74	OVP	Z	-77.817	1
75	OVP	Mx	0	1
76	MP1A	X	-49.581	3.13
77	MP1A	Z	-28.626	3.13
78	MP1A	Mx	-.025	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP1B	X	-65.991	3.13
80	MP1B	Z	-38.1	3.13
81	MP1B	Mx	0	3.13
82	MP2C	X	-53.151	3.13
83	MP2C	Z	-30.687	3.13
84	MP2C	Mx	.024	3.13
85	MP2A	X	-43.295	3.13
86	MP2A	Z	-24.997	3.13
87	MP2A	Mx	-.022	3.13
88	MP2B	X	-65.991	3.13
89	MP2B	Z	-38.1	3.13
90	MP2B	Mx	0	3.13
91	MP3C	X	-48.233	3.13
92	MP3C	Z	-27.847	3.13
93	MP3C	Mx	.021	3.13
94	LIGHT	X	-7.646	0
95	LIGHT	Z	-4.414	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-94.098	.92
2	MP1A	Z	-162.982	.92
3	MP1A	Mx	-.05	.92
4	MP1A	X	-94.098	4.42
5	MP1A	Z	-162.982	4.42
6	MP1A	Mx	-.05	4.42
7	MP1B	X	-94.098	.92
8	MP1B	Z	-162.982	.92
9	MP1B	Mx	.222	.92
10	MP1B	X	-94.098	4.42
11	MP1B	Z	-162.982	4.42
12	MP1B	Mx	.222	4.42
13	MP1A	X	-94.098	.92
14	MP1A	Z	-162.982	.92
15	MP1A	Mx	.222	.92
16	MP1A	X	-94.098	4.42
17	MP1A	Z	-162.982	4.42
18	MP1A	Mx	.222	4.42
19	MP1B	X	-94.098	.92
20	MP1B	Z	-162.982	.92
21	MP1B	Mx	-.05	.92
22	MP1B	X	-94.098	4.42
23	MP1B	Z	-162.982	4.42
24	MP1B	Mx	-.05	4.42
25	MP2C	X	-75.53	.92
26	MP2C	Z	-130.822	.92
27	MP2C	Mx	-.158	.92
28	MP2C	X	-75.53	4.42
29	MP2C	Z	-130.822	4.42
30	MP2C	Mx	-.158	4.42
31	MP2C	X	-75.53	.92
32	MP2C	Z	-130.822	.92
33	MP2C	Mx	-.115	.92
34	MP2C	X	-75.53	4.42
35	MP2C	Z	-130.822	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.115	4.42
37	MP2A	X	-40.596	1.67
38	MP2A	Z	-70.314	1.67
39	MP2A	Mx	.02	1.67
40	MP2A	X	-40.596	3.67
41	MP2A	Z	-70.314	3.67
42	MP2A	Mx	.02	3.67
43	MP2B	X	-40.596	1.67
44	MP2B	Z	-70.314	1.67
45	MP2B	Mx	.02	1.67
46	MP2B	X	-40.596	3.67
47	MP2B	Z	-70.314	3.67
48	MP2B	Mx	.02	3.67
49	MP3C	X	-19.623	1.67
50	MP3C	Z	-33.988	1.67
51	MP3C	Mx	-.019	1.67
52	MP3C	X	-19.623	3.67
53	MP3C	Z	-33.988	3.67
54	MP3C	Mx	-.019	3.67
55	MP4A	X	-34.312	.91
56	MP4A	Z	-59.43	.91
57	MP4A	Mx	.017	.91
58	MP4A	X	-34.312	4.42
59	MP4A	Z	-59.43	4.42
60	MP4A	Mx	.017	4.42
61	MP4B	X	-42.277	.92
62	MP4B	Z	-73.226	.92
63	MP4B	Mx	.021	.92
64	MP4B	X	-42.277	4.42
65	MP4B	Z	-73.226	4.42
66	MP4B	Mx	.021	4.42
67	MP5C	X	-25.559	.92
68	MP5C	Z	-44.27	.92
69	MP5C	Mx	-.025	.92
70	MP5C	X	-25.559	4.42
71	MP5C	Z	-44.27	4.42
72	MP5C	Mx	-.025	4.42
73	OVP	X	-82.719	1
74	OVP	Z	-143.274	1
75	OVP	Mx	0	1
76	MP1A	X	-34.942	3.13
77	MP1A	Z	-60.521	3.13
78	MP1A	Mx	-.017	3.13
79	MP1B	X	-34.942	3.13
80	MP1B	Z	-60.521	3.13
81	MP1B	Mx	-.017	3.13
82	MP2C	X	-25.849	3.13
83	MP2C	Z	-44.771	3.13
84	MP2C	Mx	.025	3.13
85	MP2A	X	-33.732	3.13
86	MP2A	Z	-58.425	3.13
87	MP2A	Mx	-.017	3.13
88	MP2B	X	-33.732	3.13
89	MP2B	Z	-58.425	3.13
90	MP2B	Mx	-.017	3.13
91	MP3C	X	-21.156	3.13
92	MP3C	Z	-36.643	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP3C	Mx	.021	3.13
94	LIGHT	X	-4.075	0
95	LIGHT	Z	-7.058	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.92
2	MP1A	Z	-38.679	.92
3	MP1A	Mx	-.032	.92
4	MP1A	X	0	4.42
5	MP1A	Z	-38.679	4.42
6	MP1A	Mx	-.032	4.42
7	MP1B	X	0	.92
8	MP1B	Z	-31.611	.92
9	MP1B	Mx	.038	.92
10	MP1B	X	0	4.42
11	MP1B	Z	-31.611	4.42
12	MP1B	Mx	.038	4.42
13	MP1A	X	0	.92
14	MP1A	Z	-38.679	.92
15	MP1A	Mx	.032	.92
16	MP1A	X	0	4.42
17	MP1A	Z	-38.679	4.42
18	MP1A	Mx	.032	4.42
19	MP1B	X	0	.92
20	MP1B	Z	-31.611	.92
21	MP1B	Mx	.012	.92
22	MP1B	X	0	4.42
23	MP1B	Z	-31.611	4.42
24	MP1B	Mx	.012	4.42
25	MP2C	X	0	.92
26	MP2C	Z	-30.357	.92
27	MP2C	Mx	-.017	.92
28	MP2C	X	0	4.42
29	MP2C	Z	-30.357	4.42
30	MP2C	Mx	-.017	4.42
31	MP2C	X	0	.92
32	MP2C	Z	-30.357	.92
33	MP2C	Mx	-.035	.92
34	MP2C	X	0	4.42
35	MP2C	Z	-30.357	4.42
36	MP2C	Mx	-.035	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	-19.075	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	-19.075	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	-10.857	1.67
45	MP2B	Mx	.005	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	-10.857	3.67
48	MP2B	Mx	.005	3.67
49	MP3C	X	0	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
50	MP3C	Z	-9.4	1.67
51	MP3C	Mx	-.004	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	-9.4	3.67
54	MP3C	Mx	-.004	3.67
55	MP4A	X	0	.91
56	MP4A	Z	-14.857	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	-14.857	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	-12.827	.92
63	MP4B	Mx	.006	.92
64	MP4B	X	0	4.42
65	MP4B	Z	-12.827	4.42
66	MP4B	Mx	.006	4.42
67	MP5C	X	0	.92
68	MP5C	Z	-11.708	.92
69	MP5C	Mx	-.006	.92
70	MP5C	X	0	4.42
71	MP5C	Z	-11.708	4.42
72	MP5C	Mx	-.006	4.42
73	OVP	X	0	1
74	OVP	Z	-31.235	1
75	OVP	Mx	0	1
76	MP1A	X	0	3.13
77	MP1A	Z	-16.068	3.13
78	MP1A	Mx	0	3.13
79	MP1B	X	0	3.13
80	MP1B	Z	-12.396	3.13
81	MP1B	Mx	-.005	3.13
82	MP2C	X	0	3.13
83	MP2C	Z	-11.745	3.13
84	MP2C	Mx	.006	3.13
85	MP2A	X	0	3.13
86	MP2A	Z	-16.068	3.13
87	MP2A	Mx	0	3.13
88	MP2B	X	0	3.13
89	MP2B	Z	-11.001	3.13
90	MP2B	Mx	-.005	3.13
91	MP3C	X	0	3.13
92	MP3C	Z	-10.102	3.13
93	MP3C	Mx	.005	3.13
94	LIGHT	X	0	0
95	LIGHT	Z	-3.06	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	18.161	.92
2	MP1A	Z	-31.456	.92
3	MP1A	Mx	-.043	.92
4	MP1A	X	18.161	4.42
5	MP1A	Z	-31.456	4.42
6	MP1A	Mx	-.043	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP1B	X	14.628	.92
8	MP1B	Z	-25.336	.92
9	MP1B	Mx	.027	.92
10	MP1B	X	14.628	4.42
11	MP1B	Z	-25.336	4.42
12	MP1B	Mx	.027	4.42
13	MP1A	X	18.161	.92
14	MP1A	Z	-31.456	.92
15	MP1A	Mx	.01	.92
16	MP1A	X	18.161	4.42
17	MP1A	Z	-31.456	4.42
18	MP1A	Mx	.01	4.42
19	MP1B	X	14.628	.92
20	MP1B	Z	-25.336	.92
21	MP1B	Mx	.027	.92
22	MP1B	X	14.628	4.42
23	MP1B	Z	-25.336	4.42
24	MP1B	Mx	.027	4.42
25	MP2C	X	17.393	.92
26	MP2C	Z	-30.125	.92
27	MP2C	Mx	.002	.92
28	MP2C	X	17.393	4.42
29	MP2C	Z	-30.125	4.42
30	MP2C	Mx	.002	4.42
31	MP2C	X	17.393	.92
32	MP2C	Z	-30.125	.92
33	MP2C	Mx	-.043	.92
34	MP2C	X	17.393	4.42
35	MP2C	Z	-30.125	4.42
36	MP2C	Mx	-.043	4.42
37	MP2A	X	8.168	1.67
38	MP2A	Z	-14.147	1.67
39	MP2A	Mx	-.004	1.67
40	MP2A	X	8.168	3.67
41	MP2A	Z	-14.147	3.67
42	MP2A	Mx	-.004	3.67
43	MP2B	X	4.059	1.67
44	MP2B	Z	-7.031	1.67
45	MP2B	Mx	.004	1.67
46	MP2B	X	4.059	3.67
47	MP2B	Z	-7.031	3.67
48	MP2B	Mx	.004	3.67
49	MP3C	X	7.274	1.67
50	MP3C	Z	-12.599	1.67
51	MP3C	Mx	-.005	1.67
52	MP3C	X	7.274	3.67
53	MP3C	Z	-12.599	3.67
54	MP3C	Mx	-.005	3.67
55	MP4A	X	7.071	.91
56	MP4A	Z	-12.246	.91
57	MP4A	Mx	-.004	.91
58	MP4A	X	7.071	4.42
59	MP4A	Z	-12.246	4.42
60	MP4A	Mx	-.004	4.42
61	MP4B	X	5.362	.92
62	MP4B	Z	-9.288	.92
63	MP4B	Mx	.005	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP4B	X	5.362	4.42
65	MP4B	Z	-9.288	4.42
66	MP4B	Mx	.005	4.42
67	MP5C	X	7.83	.92
68	MP5C	Z	-13.562	.92
69	MP5C	Mx	-.005	.92
70	MP5C	X	7.83	4.42
71	MP5C	Z	-13.562	4.42
72	MP5C	Mx	-.005	4.42
73	OVP	X	13.815	1
74	OVP	Z	-23.929	1
75	OVP	Mx	0	1
76	MP1A	X	7.422	3.13
77	MP1A	Z	-12.855	3.13
78	MP1A	Mx	.004	3.13
79	MP1B	X	5.586	3.13
80	MP1B	Z	-9.675	3.13
81	MP1B	Mx	-.006	3.13
82	MP2C	X	7.022	3.13
83	MP2C	Z	-12.163	3.13
84	MP2C	Mx	.005	3.13
85	MP2A	X	7.189	3.13
86	MP2A	Z	-12.452	3.13
87	MP2A	Mx	.004	3.13
88	MP2B	X	4.656	3.13
89	MP2B	Z	-8.064	3.13
90	MP2B	Mx	-.005	3.13
91	MP3C	X	6.638	3.13
92	MP3C	Z	-11.497	3.13
93	MP3C	Mx	.004	3.13
94	LIGHT	X	1.53	0
95	LIGHT	Z	-2.65	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	27.376	.92
2	MP1A	Z	-15.805	.92
3	MP1A	Mx	-.038	.92
4	MP1A	X	27.376	4.42
5	MP1A	Z	-15.805	4.42
6	MP1A	Mx	-.038	4.42
7	MP1B	X	27.376	.92
8	MP1B	Z	-15.805	.92
9	MP1B	Mx	.012	.92
10	MP1B	X	27.376	4.42
11	MP1B	Z	-15.805	4.42
12	MP1B	Mx	.012	4.42
13	MP1A	X	27.376	.92
14	MP1A	Z	-15.805	.92
15	MP1A	Mx	-.012	.92
16	MP1A	X	27.376	4.42
17	MP1A	Z	-15.805	4.42
18	MP1A	Mx	-.012	4.42
19	MP1B	X	27.376	.92
20	MP1B	Z	-15.805	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP1B	Mx	.038	.92
22	MP1B	X	27.376	4.42
23	MP1B	Z	-15.805	4.42
24	MP1B	Mx	.038	4.42
25	MP2C	X	33.251	.92
26	MP2C	Z	-19.197	.92
27	MP2C	Mx	.025	.92
28	MP2C	X	33.251	4.42
29	MP2C	Z	-19.197	4.42
30	MP2C	Mx	.025	4.42
31	MP2C	X	33.251	.92
32	MP2C	Z	-19.197	.92
33	MP2C	Mx	-.038	.92
34	MP2C	X	33.251	4.42
35	MP2C	Z	-19.197	4.42
36	MP2C	Mx	-.038	4.42
37	MP2A	X	9.403	1.67
38	MP2A	Z	-5.429	1.67
39	MP2A	Mx	-.005	1.67
40	MP2A	X	9.403	3.67
41	MP2A	Z	-5.429	3.67
42	MP2A	Mx	-.005	3.67
43	MP2B	X	9.403	1.67
44	MP2B	Z	-5.429	1.67
45	MP2B	Mx	.005	1.67
46	MP2B	X	9.403	3.67
47	MP2B	Z	-5.429	3.67
48	MP2B	Mx	.005	3.67
49	MP3C	X	16.233	1.67
50	MP3C	Z	-9.372	1.67
51	MP3C	Mx	-.002	1.67
52	MP3C	X	16.233	3.67
53	MP3C	Z	-9.372	3.67
54	MP3C	Mx	-.002	3.67
55	MP4A	X	11.006	.91
56	MP4A	Z	-6.354	.91
57	MP4A	Mx	-.006	.91
58	MP4A	X	11.006	4.42
59	MP4A	Z	-6.354	4.42
60	MP4A	Mx	-.006	4.42
61	MP4B	X	11.108	.92
62	MP4B	Z	-6.413	.92
63	MP4B	Mx	.006	.92
64	MP4B	X	11.108	4.42
65	MP4B	Z	-6.413	4.42
66	MP4B	Mx	.006	4.42
67	MP5C	X	16.351	.92
68	MP5C	Z	-9.44	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	16.351	4.42
71	MP5C	Z	-9.44	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	22.368	1
74	OVP	Z	-12.914	1
75	OVP	Mx	0	1
76	MP1A	X	10.735	3.13
77	MP1A	Z	-6.198	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP1A	Mx	.005	3.13
79	MP1B	X	10.735	3.13
80	MP1B	Z	-6.198	3.13
81	MP1B	Mx	-.005	3.13
82	MP2C	X	13.787	3.13
83	MP2C	Z	-7.96	3.13
84	MP2C	Mx	.001	3.13
85	MP2A	X	9.527	3.13
86	MP2A	Z	-5.5	3.13
87	MP2A	Mx	.005	3.13
88	MP2B	X	9.527	3.13
89	MP2B	Z	-5.5	3.13
90	MP2B	Mx	-.005	3.13
91	MP3C	X	13.738	3.13
92	MP3C	Z	-7.932	3.13
93	MP3C	Mx	.001	3.13
94	LIGHT	X	2.65	0
95	LIGHT	Z	-1.53	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	29.255	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	-.027	.92
4	MP1A	X	29.255	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	-.027	4.42
7	MP1B	X	36.323	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	-.01	.92
10	MP1B	X	36.323	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	-.01	4.42
13	MP1A	X	29.255	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	-.027	.92
16	MP1A	X	29.255	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	-.027	4.42
19	MP1B	X	36.323	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	.043	.92
22	MP1B	X	36.323	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	.043	4.42
25	MP2C	X	37.576	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	.041	.92
28	MP2C	X	37.576	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	.041	4.42
31	MP2C	X	37.576	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	-.018	.92
34	MP2C	X	37.576	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP2C	Z	0	4.42
36	MP2C	Mx	-.018	4.42
37	MP2A	X	8.118	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	-.004	1.67
40	MP2A	X	8.118	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	-.004	3.67
43	MP2B	X	16.336	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	.004	1.67
46	MP2B	X	16.336	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	.004	3.67
49	MP3C	X	17.793	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	.003	1.67
52	MP3C	X	17.793	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	.003	3.67
55	MP4A	X	11.992	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	-.006	.91
58	MP4A	X	11.992	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	-.006	4.42
61	MP4B	X	17.032	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	.004	.92
64	MP4B	X	17.032	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	.004	4.42
67	MP5C	X	18.15	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	.003	.92
70	MP5C	X	18.15	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	.003	4.42
73	OVP	X	27.631	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	11.172	3.13
77	MP1A	Z	0	3.13
78	MP1A	Mx	.006	3.13
79	MP1B	X	14.844	3.13
80	MP1B	Z	0	3.13
81	MP1B	Mx	-.004	3.13
82	MP2C	X	15.495	3.13
83	MP2C	Z	0	3.13
84	MP2C	Mx	-.003	3.13
85	MP2A	X	9.312	3.13
86	MP2A	Z	0	3.13
87	MP2A	Mx	.005	3.13
88	MP2B	X	14.379	3.13
89	MP2B	Z	0	3.13
90	MP2B	Mx	-.004	3.13
91	MP3C	X	15.277	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP3C	Z	0	3.13
93	MP3C	Mx	-.003	3.13
94	LIGHT	X	3.06	0
95	LIGHT	Z	0	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	27.376	.92
2	MP1A	Z	15.805	.92
3	MP1A	Mx	-.012	.92
4	MP1A	X	27.376	4.42
5	MP1A	Z	15.805	4.42
6	MP1A	Mx	-.012	4.42
7	MP1B	X	33.497	.92
8	MP1B	Z	19.339	.92
9	MP1B	Mx	-.032	.92
10	MP1B	X	33.497	4.42
11	MP1B	Z	19.339	4.42
12	MP1B	Mx	-.032	4.42
13	MP1A	X	27.376	.92
14	MP1A	Z	15.805	.92
15	MP1A	Mx	-.038	.92
16	MP1A	X	27.376	4.42
17	MP1A	Z	15.805	4.42
18	MP1A	Mx	-.038	4.42
19	MP1B	X	33.497	.92
20	MP1B	Z	19.339	.92
21	MP1B	Mx	.032	.92
22	MP1B	X	33.497	4.42
23	MP1B	Z	19.339	4.42
24	MP1B	Mx	.032	4.42
25	MP2C	X	28.708	.92
26	MP2C	Z	16.574	.92
27	MP2C	Mx	.041	.92
28	MP2C	X	28.708	4.42
29	MP2C	Z	16.574	4.42
30	MP2C	Mx	.041	4.42
31	MP2C	X	28.708	.92
32	MP2C	Z	16.574	.92
33	MP2C	Mx	.006	.92
34	MP2C	X	28.708	4.42
35	MP2C	Z	16.574	4.42
36	MP2C	Mx	.006	4.42
37	MP2A	X	9.403	1.67
38	MP2A	Z	5.429	1.67
39	MP2A	Mx	-.005	1.67
40	MP2A	X	9.403	3.67
41	MP2A	Z	5.429	3.67
42	MP2A	Mx	-.005	3.67
43	MP2B	X	16.519	1.67
44	MP2B	Z	9.538	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	16.519	3.67
47	MP2B	Z	9.538	3.67
48	MP2B	Mx	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
49	MP3C	X	10.951	1.67
50	MP3C	Z	6.323	1.67
51	MP3C	Mx	.005	1.67
52	MP3C	X	10.951	3.67
53	MP3C	Z	6.323	3.67
54	MP3C	Mx	.005	3.67
55	MP4A	X	11.006	.91
56	MP4A	Z	6.354	.91
57	MP4A	Mx	-.006	.91
58	MP4A	X	11.006	4.42
59	MP4A	Z	6.354	4.42
60	MP4A	Mx	-.006	4.42
61	MP4B	X	16.571	.92
62	MP4B	Z	9.567	.92
63	MP4B	Mx	0	.92
64	MP4B	X	16.571	4.42
65	MP4B	Z	9.567	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	12.297	.92
68	MP5C	Z	7.1	.92
69	MP5C	Mx	.005	.92
70	MP5C	X	12.297	4.42
71	MP5C	Z	7.1	4.42
72	MP5C	Mx	.005	4.42
73	OVP	X	27.05	1
74	OVP	Z	15.617	1
75	OVP	Mx	0	1
76	MP1A	X	10.735	3.13
77	MP1A	Z	6.198	3.13
78	MP1A	Mx	.005	3.13
79	MP1B	X	13.915	3.13
80	MP1B	Z	8.034	3.13
81	MP1B	Mx	0	3.13
82	MP2C	X	11.427	3.13
83	MP2C	Z	6.597	3.13
84	MP2C	Mx	-.005	3.13
85	MP2A	X	9.527	3.13
86	MP2A	Z	5.5	3.13
87	MP2A	Mx	.005	3.13
88	MP2B	X	13.915	3.13
89	MP2B	Z	8.034	3.13
90	MP2B	Mx	0	3.13
91	MP3C	X	10.482	3.13
92	MP3C	Z	6.052	3.13
93	MP3C	Mx	-.005	3.13
94	LIGHT	X	2.65	0
95	LIGHT	Z	1.53	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	18.161	.92
2	MP1A	Z	31.456	.92
3	MP1A	Mx	.01	.92
4	MP1A	X	18.161	4.42
5	MP1A	Z	31.456	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP1A	Mx	.01	4.42
7	MP1B	X	18.161	.92
8	MP1B	Z	31.456	.92
9	MP1B	Mx	-.043	.92
10	MP1B	X	18.161	4.42
11	MP1B	Z	31.456	4.42
12	MP1B	Mx	-.043	4.42
13	MP1A	X	18.161	.92
14	MP1A	Z	31.456	.92
15	MP1A	Mx	-.043	.92
16	MP1A	X	18.161	4.42
17	MP1A	Z	31.456	4.42
18	MP1A	Mx	-.043	4.42
19	MP1B	X	18.161	.92
20	MP1B	Z	31.456	.92
21	MP1B	Mx	.01	.92
22	MP1B	X	18.161	4.42
23	MP1B	Z	31.456	4.42
24	MP1B	Mx	.01	4.42
25	MP2C	X	14.77	.92
26	MP2C	Z	25.582	.92
27	MP2C	Mx	.031	.92
28	MP2C	X	14.77	4.42
29	MP2C	Z	25.582	4.42
30	MP2C	Mx	.031	4.42
31	MP2C	X	14.77	.92
32	MP2C	Z	25.582	.92
33	MP2C	Mx	.022	.92
34	MP2C	X	14.77	4.42
35	MP2C	Z	25.582	4.42
36	MP2C	Mx	.022	4.42
37	MP2A	X	8.168	1.67
38	MP2A	Z	14.147	1.67
39	MP2A	Mx	-.004	1.67
40	MP2A	X	8.168	3.67
41	MP2A	Z	14.147	3.67
42	MP2A	Mx	-.004	3.67
43	MP2B	X	8.168	1.67
44	MP2B	Z	14.147	1.67
45	MP2B	Mx	-.004	1.67
46	MP2B	X	8.168	3.67
47	MP2B	Z	14.147	3.67
48	MP2B	Mx	-.004	3.67
49	MP3C	X	4.224	1.67
50	MP3C	Z	7.317	1.67
51	MP3C	Mx	.004	1.67
52	MP3C	X	4.224	3.67
53	MP3C	Z	7.317	3.67
54	MP3C	Mx	.004	3.67
55	MP4A	X	7.071	.91
56	MP4A	Z	12.246	.91
57	MP4A	Mx	-.004	.91
58	MP4A	X	7.071	4.42
59	MP4A	Z	12.246	4.42
60	MP4A	Mx	-.004	4.42
61	MP4B	X	8.516	.92
62	MP4B	Z	14.75	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP4B	Mx	-.004	.92
64	MP4B	X	8.516	4.42
65	MP4B	Z	14.75	4.42
66	MP4B	Mx	-.004	4.42
67	MP5C	X	5.489	.92
68	MP5C	Z	9.507	.92
69	MP5C	Mx	.005	.92
70	MP5C	X	5.489	4.42
71	MP5C	Z	9.507	4.42
72	MP5C	Mx	.005	4.42
73	OVP	X	16.519	1
74	OVP	Z	28.611	1
75	OVP	Mx	0	1
76	MP1A	X	7.422	3.13
77	MP1A	Z	12.855	3.13
78	MP1A	Mx	.004	3.13
79	MP1B	X	7.422	3.13
80	MP1B	Z	12.855	3.13
81	MP1B	Mx	.004	3.13
82	MP2C	X	5.66	3.13
83	MP2C	Z	9.803	3.13
84	MP2C	Mx	-.006	3.13
85	MP2A	X	7.189	3.13
86	MP2A	Z	12.452	3.13
87	MP2A	Mx	.004	3.13
88	MP2B	X	7.189	3.13
89	MP2B	Z	12.452	3.13
90	MP2B	Mx	.004	3.13
91	MP3C	X	4.758	3.13
92	MP3C	Z	8.241	3.13
93	MP3C	Mx	-.005	3.13
94	LIGHT	X	1.53	0
95	LIGHT	Z	2.65	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.92
2	MP1A	Z	38.679	.92
3	MP1A	Mx	.032	.92
4	MP1A	X	0	4.42
5	MP1A	Z	38.679	4.42
6	MP1A	Mx	.032	4.42
7	MP1B	X	0	.92
8	MP1B	Z	31.611	.92
9	MP1B	Mx	-.038	.92
10	MP1B	X	0	4.42
11	MP1B	Z	31.611	4.42
12	MP1B	Mx	-.038	4.42
13	MP1A	X	0	.92
14	MP1A	Z	38.679	.92
15	MP1A	Mx	-.032	.92
16	MP1A	X	0	4.42
17	MP1A	Z	38.679	4.42
18	MP1A	Mx	-.032	4.42
19	MP1B	X	0	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP1B	Z	31.611	.92
21	MP1B	Mx	-.012	.92
22	MP1B	X	0	4.42
23	MP1B	Z	31.611	4.42
24	MP1B	Mx	-.012	4.42
25	MP2C	X	0	.92
26	MP2C	Z	30.357	.92
27	MP2C	Mx	.017	.92
28	MP2C	X	0	4.42
29	MP2C	Z	30.357	4.42
30	MP2C	Mx	.017	4.42
31	MP2C	X	0	.92
32	MP2C	Z	30.357	.92
33	MP2C	Mx	.035	.92
34	MP2C	X	0	4.42
35	MP2C	Z	30.357	4.42
36	MP2C	Mx	.035	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	19.075	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	19.075	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	10.857	1.67
45	MP2B	Mx	-.005	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	10.857	3.67
48	MP2B	Mx	-.005	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	9.4	1.67
51	MP3C	Mx	.004	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	9.4	3.67
54	MP3C	Mx	.004	3.67
55	MP4A	X	0	.91
56	MP4A	Z	14.857	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	14.857	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	12.827	.92
63	MP4B	Mx	-.006	.92
64	MP4B	X	0	4.42
65	MP4B	Z	12.827	4.42
66	MP4B	Mx	-.006	4.42
67	MP5C	X	0	.92
68	MP5C	Z	11.708	.92
69	MP5C	Mx	.006	.92
70	MP5C	X	0	4.42
71	MP5C	Z	11.708	4.42
72	MP5C	Mx	.006	4.42
73	OVP	X	0	1
74	OVP	Z	31.235	1
75	OVP	Mx	0	1
76	MP1A	X	0	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP1A	Z	16.068	3.13
78	MP1A	Mx	0	3.13
79	MP1B	X	0	3.13
80	MP1B	Z	12.396	3.13
81	MP1B	Mx	.005	3.13
82	MP2C	X	0	3.13
83	MP2C	Z	11.745	3.13
84	MP2C	Mx	-.006	3.13
85	MP2A	X	0	3.13
86	MP2A	Z	16.068	3.13
87	MP2A	Mx	0	3.13
88	MP2B	X	0	3.13
89	MP2B	Z	11.001	3.13
90	MP2B	Mx	.005	3.13
91	MP3C	X	0	3.13
92	MP3C	Z	10.102	3.13
93	MP3C	Mx	-.005	3.13
94	LIGHT	X	0	0
95	LIGHT	Z	3.06	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-18.161	.92
2	MP1A	Z	31.456	.92
3	MP1A	Mx	.043	.92
4	MP1A	X	-18.161	4.42
5	MP1A	Z	31.456	4.42
6	MP1A	Mx	.043	4.42
7	MP1B	X	-14.628	.92
8	MP1B	Z	25.336	.92
9	MP1B	Mx	-.027	.92
10	MP1B	X	-14.628	4.42
11	MP1B	Z	25.336	4.42
12	MP1B	Mx	-.027	4.42
13	MP1A	X	-18.161	.92
14	MP1A	Z	31.456	.92
15	MP1A	Mx	-.01	.92
16	MP1A	X	-18.161	4.42
17	MP1A	Z	31.456	4.42
18	MP1A	Mx	-.01	4.42
19	MP1B	X	-14.628	.92
20	MP1B	Z	25.336	.92
21	MP1B	Mx	-.027	.92
22	MP1B	X	-14.628	4.42
23	MP1B	Z	25.336	4.42
24	MP1B	Mx	-.027	4.42
25	MP2C	X	-17.393	.92
26	MP2C	Z	30.125	.92
27	MP2C	Mx	-.002	.92
28	MP2C	X	-17.393	4.42
29	MP2C	Z	30.125	4.42
30	MP2C	Mx	-.002	4.42
31	MP2C	X	-17.393	.92
32	MP2C	Z	30.125	.92
33	MP2C	Mx	.043	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2C	X	-17.393	4.42
35	MP2C	Z	30.125	4.42
36	MP2C	Mx	.043	4.42
37	MP2A	X	-8.168	1.67
38	MP2A	Z	14.147	1.67
39	MP2A	Mx	.004	1.67
40	MP2A	X	-8.168	3.67
41	MP2A	Z	14.147	3.67
42	MP2A	Mx	.004	3.67
43	MP2B	X	-4.059	1.67
44	MP2B	Z	7.031	1.67
45	MP2B	Mx	-.004	1.67
46	MP2B	X	-4.059	3.67
47	MP2B	Z	7.031	3.67
48	MP2B	Mx	-.004	3.67
49	MP3C	X	-7.274	1.67
50	MP3C	Z	12.599	1.67
51	MP3C	Mx	.005	1.67
52	MP3C	X	-7.274	3.67
53	MP3C	Z	12.599	3.67
54	MP3C	Mx	.005	3.67
55	MP4A	X	-7.071	.91
56	MP4A	Z	12.246	.91
57	MP4A	Mx	.004	.91
58	MP4A	X	-7.071	4.42
59	MP4A	Z	12.246	4.42
60	MP4A	Mx	.004	4.42
61	MP4B	X	-5.362	.92
62	MP4B	Z	9.288	.92
63	MP4B	Mx	-.005	.92
64	MP4B	X	-5.362	4.42
65	MP4B	Z	9.288	4.42
66	MP4B	Mx	-.005	4.42
67	MP5C	X	-7.83	.92
68	MP5C	Z	13.562	.92
69	MP5C	Mx	.005	.92
70	MP5C	X	-7.83	4.42
71	MP5C	Z	13.562	4.42
72	MP5C	Mx	.005	4.42
73	OVP	X	-13.815	1
74	OVP	Z	23.929	1
75	OVP	Mx	0	1
76	MP1A	X	-7.422	3.13
77	MP1A	Z	12.855	3.13
78	MP1A	Mx	-.004	3.13
79	MP1B	X	-5.586	3.13
80	MP1B	Z	9.675	3.13
81	MP1B	Mx	.006	3.13
82	MP2C	X	-7.022	3.13
83	MP2C	Z	12.163	3.13
84	MP2C	Mx	-.005	3.13
85	MP2A	X	-7.189	3.13
86	MP2A	Z	12.452	3.13
87	MP2A	Mx	-.004	3.13
88	MP2B	X	-4.656	3.13
89	MP2B	Z	8.064	3.13
90	MP2B	Mx	.005	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP3C	X	-6.638	3.13
92	MP3C	Z	11.497	3.13
93	MP3C	Mx	-.004	3.13
94	LIGHT	X	-1.53	0
95	LIGHT	Z	2.65	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-27.376	.92
2	MP1A	Z	15.805	.92
3	MP1A	Mx	.038	.92
4	MP1A	X	-27.376	4.42
5	MP1A	Z	15.805	4.42
6	MP1A	Mx	.038	4.42
7	MP1B	X	-27.376	.92
8	MP1B	Z	15.805	.92
9	MP1B	Mx	-.012	.92
10	MP1B	X	-27.376	4.42
11	MP1B	Z	15.805	4.42
12	MP1B	Mx	-.012	4.42
13	MP1A	X	-27.376	.92
14	MP1A	Z	15.805	.92
15	MP1A	Mx	.012	.92
16	MP1A	X	-27.376	4.42
17	MP1A	Z	15.805	4.42
18	MP1A	Mx	.012	4.42
19	MP1B	X	-27.376	.92
20	MP1B	Z	15.805	.92
21	MP1B	Mx	-.038	.92
22	MP1B	X	-27.376	4.42
23	MP1B	Z	15.805	4.42
24	MP1B	Mx	-.038	4.42
25	MP2C	X	-33.251	.92
26	MP2C	Z	19.197	.92
27	MP2C	Mx	-.025	.92
28	MP2C	X	-33.251	4.42
29	MP2C	Z	19.197	4.42
30	MP2C	Mx	-.025	4.42
31	MP2C	X	-33.251	.92
32	MP2C	Z	19.197	.92
33	MP2C	Mx	.038	.92
34	MP2C	X	-33.251	4.42
35	MP2C	Z	19.197	4.42
36	MP2C	Mx	.038	4.42
37	MP2A	X	-9.403	1.67
38	MP2A	Z	5.429	1.67
39	MP2A	Mx	.005	1.67
40	MP2A	X	-9.403	3.67
41	MP2A	Z	5.429	3.67
42	MP2A	Mx	.005	3.67
43	MP2B	X	-9.403	1.67
44	MP2B	Z	5.429	1.67
45	MP2B	Mx	-.005	1.67
46	MP2B	X	-9.403	3.67
47	MP2B	Z	5.429	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	-.005	3.67
49	MP3C	X	-16.233	1.67
50	MP3C	Z	9.372	1.67
51	MP3C	Mx	.002	1.67
52	MP3C	X	-16.233	3.67
53	MP3C	Z	9.372	3.67
54	MP3C	Mx	.002	3.67
55	MP4A	X	-11.006	.91
56	MP4A	Z	6.354	.91
57	MP4A	Mx	.006	.91
58	MP4A	X	-11.006	4.42
59	MP4A	Z	6.354	4.42
60	MP4A	Mx	.006	4.42
61	MP4B	X	-11.108	.92
62	MP4B	Z	6.413	.92
63	MP4B	Mx	-.006	.92
64	MP4B	X	-11.108	4.42
65	MP4B	Z	6.413	4.42
66	MP4B	Mx	-.006	4.42
67	MP5C	X	-16.351	.92
68	MP5C	Z	9.44	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	-16.351	4.42
71	MP5C	Z	9.44	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	-22.368	1
74	OVP	Z	12.914	1
75	OVP	Mx	0	1
76	MP1A	X	-10.735	3.13
77	MP1A	Z	6.198	3.13
78	MP1A	Mx	-.005	3.13
79	MP1B	X	-10.735	3.13
80	MP1B	Z	6.198	3.13
81	MP1B	Mx	.005	3.13
82	MP2C	X	-13.787	3.13
83	MP2C	Z	7.96	3.13
84	MP2C	Mx	-.001	3.13
85	MP2A	X	-9.527	3.13
86	MP2A	Z	5.5	3.13
87	MP2A	Mx	-.005	3.13
88	MP2B	X	-9.527	3.13
89	MP2B	Z	5.5	3.13
90	MP2B	Mx	.005	3.13
91	MP3C	X	-13.738	3.13
92	MP3C	Z	7.932	3.13
93	MP3C	Mx	-.001	3.13
94	LIGHT	X	-2.65	0
95	LIGHT	Z	1.53	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-29.255	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	.027	.92
4	MP1A	X	-29.255	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP1A	Z	0	4.42
6	MP1A	Mx	.027	4.42
7	MP1B	X	-36.323	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	.01	.92
10	MP1B	X	-36.323	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	.01	4.42
13	MP1A	X	-29.255	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	.027	.92
16	MP1A	X	-29.255	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	.027	4.42
19	MP1B	X	-36.323	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	-.043	.92
22	MP1B	X	-36.323	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	-.043	4.42
25	MP2C	X	-37.576	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	-.041	.92
28	MP2C	X	-37.576	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	-.041	4.42
31	MP2C	X	-37.576	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	.018	.92
34	MP2C	X	-37.576	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	.018	4.42
37	MP2A	X	-8.118	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	.004	1.67
40	MP2A	X	-8.118	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	.004	3.67
43	MP2B	X	-16.336	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	-.004	1.67
46	MP2B	X	-16.336	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	-.004	3.67
49	MP3C	X	-17.793	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	-.003	1.67
52	MP3C	X	-17.793	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	-.003	3.67
55	MP4A	X	-11.992	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	.006	.91
58	MP4A	X	-11.992	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	.006	4.42
61	MP4B	X	-17.032	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP4B	Z	0	.92
63	MP4B	Mx	-.004	.92
64	MP4B	X	-17.032	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	-.004	4.42
67	MP5C	X	-18.15	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	-.003	.92
70	MP5C	X	-18.15	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	-.003	4.42
73	OVP	X	-27.631	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-11.172	3.13
77	MP1A	Z	0	3.13
78	MP1A	Mx	-.006	3.13
79	MP1B	X	-14.844	3.13
80	MP1B	Z	0	3.13
81	MP1B	Mx	.004	3.13
82	MP2C	X	-15.495	3.13
83	MP2C	Z	0	3.13
84	MP2C	Mx	.003	3.13
85	MP2A	X	-9.312	3.13
86	MP2A	Z	0	3.13
87	MP2A	Mx	-.005	3.13
88	MP2B	X	-14.379	3.13
89	MP2B	Z	0	3.13
90	MP2B	Mx	.004	3.13
91	MP3C	X	-15.277	3.13
92	MP3C	Z	0	3.13
93	MP3C	Mx	.003	3.13
94	LIGHT	X	-3.06	0
95	LIGHT	Z	0	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-27.376	.92
2	MP1A	Z	-15.805	.92
3	MP1A	Mx	.012	.92
4	MP1A	X	-27.376	4.42
5	MP1A	Z	-15.805	4.42
6	MP1A	Mx	.012	4.42
7	MP1B	X	-33.497	.92
8	MP1B	Z	-19.339	.92
9	MP1B	Mx	.032	.92
10	MP1B	X	-33.497	4.42
11	MP1B	Z	-19.339	4.42
12	MP1B	Mx	.032	4.42
13	MP1A	X	-27.376	.92
14	MP1A	Z	-15.805	.92
15	MP1A	Mx	.038	.92
16	MP1A	X	-27.376	4.42
17	MP1A	Z	-15.805	4.42
18	MP1A	Mx	.038	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
19	MP1B	X	-33.497	.92
20	MP1B	Z	-19.339	.92
21	MP1B	Mx	-.032	.92
22	MP1B	X	-33.497	4.42
23	MP1B	Z	-19.339	4.42
24	MP1B	Mx	-.032	4.42
25	MP2C	X	-28.708	.92
26	MP2C	Z	-16.574	.92
27	MP2C	Mx	-.041	.92
28	MP2C	X	-28.708	4.42
29	MP2C	Z	-16.574	4.42
30	MP2C	Mx	-.041	4.42
31	MP2C	X	-28.708	.92
32	MP2C	Z	-16.574	.92
33	MP2C	Mx	-.006	.92
34	MP2C	X	-28.708	4.42
35	MP2C	Z	-16.574	4.42
36	MP2C	Mx	-.006	4.42
37	MP2A	X	-9.403	1.67
38	MP2A	Z	-5.429	1.67
39	MP2A	Mx	.005	1.67
40	MP2A	X	-9.403	3.67
41	MP2A	Z	-5.429	3.67
42	MP2A	Mx	.005	3.67
43	MP2B	X	-16.519	1.67
44	MP2B	Z	-9.538	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	-16.519	3.67
47	MP2B	Z	-9.538	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	-10.951	1.67
50	MP3C	Z	-6.323	1.67
51	MP3C	Mx	-.005	1.67
52	MP3C	X	-10.951	3.67
53	MP3C	Z	-6.323	3.67
54	MP3C	Mx	-.005	3.67
55	MP4A	X	-11.006	.91
56	MP4A	Z	-6.354	.91
57	MP4A	Mx	.006	.91
58	MP4A	X	-11.006	4.42
59	MP4A	Z	-6.354	4.42
60	MP4A	Mx	.006	4.42
61	MP4B	X	-16.571	.92
62	MP4B	Z	-9.567	.92
63	MP4B	Mx	0	.92
64	MP4B	X	-16.571	4.42
65	MP4B	Z	-9.567	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	-12.297	.92
68	MP5C	Z	-7.1	.92
69	MP5C	Mx	-.005	.92
70	MP5C	X	-12.297	4.42
71	MP5C	Z	-7.1	4.42
72	MP5C	Mx	-.005	4.42
73	OVP	X	-27.05	1
74	OVP	Z	-15.617	1
75	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
76	MP1A	X	-10.735	3.13
77	MP1A	Z	-6.198	3.13
78	MP1A	Mx	-.005	3.13
79	MP1B	X	-13.915	3.13
80	MP1B	Z	-8.034	3.13
81	MP1B	Mx	0	3.13
82	MP2C	X	-11.427	3.13
83	MP2C	Z	-6.597	3.13
84	MP2C	Mx	.005	3.13
85	MP2A	X	-9.527	3.13
86	MP2A	Z	-5.5	3.13
87	MP2A	Mx	-.005	3.13
88	MP2B	X	-13.915	3.13
89	MP2B	Z	-8.034	3.13
90	MP2B	Mx	0	3.13
91	MP3C	X	-10.482	3.13
92	MP3C	Z	-6.052	3.13
93	MP3C	Mx	.005	3.13
94	LIGHT	X	-2.65	0
95	LIGHT	Z	-1.53	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-18.161	.92
2	MP1A	Z	-31.456	.92
3	MP1A	Mx	-.01	.92
4	MP1A	X	-18.161	4.42
5	MP1A	Z	-31.456	4.42
6	MP1A	Mx	-.01	4.42
7	MP1B	X	-18.161	.92
8	MP1B	Z	-31.456	.92
9	MP1B	Mx	.043	.92
10	MP1B	X	-18.161	4.42
11	MP1B	Z	-31.456	4.42
12	MP1B	Mx	.043	4.42
13	MP1A	X	-18.161	.92
14	MP1A	Z	-31.456	.92
15	MP1A	Mx	.043	.92
16	MP1A	X	-18.161	4.42
17	MP1A	Z	-31.456	4.42
18	MP1A	Mx	.043	4.42
19	MP1B	X	-18.161	.92
20	MP1B	Z	-31.456	.92
21	MP1B	Mx	-.01	.92
22	MP1B	X	-18.161	4.42
23	MP1B	Z	-31.456	4.42
24	MP1B	Mx	-.01	4.42
25	MP2C	X	-14.77	.92
26	MP2C	Z	-25.582	.92
27	MP2C	Mx	-.031	.92
28	MP2C	X	-14.77	4.42
29	MP2C	Z	-25.582	4.42
30	MP2C	Mx	-.031	4.42
31	MP2C	X	-14.77	.92
32	MP2C	Z	-25.582	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP2C	Mx	-.022	.92
34	MP2C	X	-14.77	4.42
35	MP2C	Z	-25.582	4.42
36	MP2C	Mx	-.022	4.42
37	MP2A	X	-8.168	1.67
38	MP2A	Z	-14.147	1.67
39	MP2A	Mx	.004	1.67
40	MP2A	X	-8.168	3.67
41	MP2A	Z	-14.147	3.67
42	MP2A	Mx	.004	3.67
43	MP2B	X	-8.168	1.67
44	MP2B	Z	-14.147	1.67
45	MP2B	Mx	.004	1.67
46	MP2B	X	-8.168	3.67
47	MP2B	Z	-14.147	3.67
48	MP2B	Mx	.004	3.67
49	MP3C	X	-4.224	1.67
50	MP3C	Z	-7.317	1.67
51	MP3C	Mx	-.004	1.67
52	MP3C	X	-4.224	3.67
53	MP3C	Z	-7.317	3.67
54	MP3C	Mx	-.004	3.67
55	MP4A	X	-7.071	.91
56	MP4A	Z	-12.246	.91
57	MP4A	Mx	.004	.91
58	MP4A	X	-7.071	4.42
59	MP4A	Z	-12.246	4.42
60	MP4A	Mx	.004	4.42
61	MP4B	X	-8.516	.92
62	MP4B	Z	-14.75	.92
63	MP4B	Mx	.004	.92
64	MP4B	X	-8.516	4.42
65	MP4B	Z	-14.75	4.42
66	MP4B	Mx	.004	4.42
67	MP5C	X	-5.489	.92
68	MP5C	Z	-9.507	.92
69	MP5C	Mx	-.005	.92
70	MP5C	X	-5.489	4.42
71	MP5C	Z	-9.507	4.42
72	MP5C	Mx	-.005	4.42
73	OVP	X	-16.519	1
74	OVP	Z	-28.611	1
75	OVP	Mx	0	1
76	MP1A	X	-7.422	3.13
77	MP1A	Z	-12.855	3.13
78	MP1A	Mx	-.004	3.13
79	MP1B	X	-7.422	3.13
80	MP1B	Z	-12.855	3.13
81	MP1B	Mx	-.004	3.13
82	MP2C	X	-5.66	3.13
83	MP2C	Z	-9.803	3.13
84	MP2C	Mx	.006	3.13
85	MP2A	X	-7.189	3.13
86	MP2A	Z	-12.452	3.13
87	MP2A	Mx	-.004	3.13
88	MP2B	X	-7.189	3.13
89	MP2B	Z	-12.452	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP2B	Mx	-.004	3.13
91	MP3C	X	-4.758	3.13
92	MP3C	Z	-8.241	3.13
93	MP3C	Mx	.005	3.13
94	LIGHT	X	-1.53	0
95	LIGHT	Z	-2.65	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.92
2	MP1A	Z	-12.78	.92
3	MP1A	Mx	-.011	.92
4	MP1A	X	0	4.42
5	MP1A	Z	-12.78	4.42
6	MP1A	Mx	-.011	4.42
7	MP1B	X	0	.92
8	MP1B	Z	-10.321	.92
9	MP1B	Mx	.012	.92
10	MP1B	X	0	4.42
11	MP1B	Z	-10.321	4.42
12	MP1B	Mx	.012	4.42
13	MP1A	X	0	.92
14	MP1A	Z	-12.78	.92
15	MP1A	Mx	.011	.92
16	MP1A	X	0	4.42
17	MP1A	Z	-12.78	4.42
18	MP1A	Mx	.011	4.42
19	MP1B	X	0	.92
20	MP1B	Z	-10.321	.92
21	MP1B	Mx	.004	.92
22	MP1B	X	0	4.42
23	MP1B	Z	-10.321	4.42
24	MP1B	Mx	.004	4.42
25	MP2C	X	0	.92
26	MP2C	Z	-9.885	.92
27	MP2C	Mx	-.006	.92
28	MP2C	X	0	4.42
29	MP2C	Z	-9.885	4.42
30	MP2C	Mx	-.006	4.42
31	MP2C	X	0	.92
32	MP2C	Z	-9.885	.92
33	MP2C	Mx	-.011	.92
34	MP2C	X	0	4.42
35	MP2C	Z	-9.885	4.42
36	MP2C	Mx	-.011	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	-6.086	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	-6.086	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	-3.308	1.67
45	MP2B	Mx	.001	1.67
46	MP2B	X	0	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP2B	Z	-3.308	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	-2.816	1.67
51	MP3C	Mx	-.001	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	-2.816	3.67
54	MP3C	Mx	-.001	3.67
55	MP4A	X	0	.91
56	MP4A	Z	-4.61	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	-4.61	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	-3.898	.92
63	MP4B	Mx	.002	.92
64	MP4B	X	0	4.42
65	MP4B	Z	-3.898	4.42
66	MP4B	Mx	.002	4.42
67	MP5C	X	0	.92
68	MP5C	Z	-3.505	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	0	4.42
71	MP5C	Z	-3.505	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	0	1
74	OVP	Z	-9.891	1
75	OVP	Mx	0	1
76	MP1A	X	0	3.13
77	MP1A	Z	-4.843	3.13
78	MP1A	Mx	0	3.13
79	MP1B	X	0	3.13
80	MP1B	Z	-3.639	3.13
81	MP1B	Mx	-.002	3.13
82	MP2C	X	0	3.13
83	MP2C	Z	-3.425	3.13
84	MP2C	Mx	.002	3.13
85	MP2A	X	0	3.13
86	MP2A	Z	-4.843	3.13
87	MP2A	Mx	0	3.13
88	MP2B	X	0	3.13
89	MP2B	Z	-3.177	3.13
90	MP2B	Mx	-.001	3.13
91	MP3C	X	0	3.13
92	MP3C	Z	-2.882	3.13
93	MP3C	Mx	.001	3.13
94	LIGHT	X	0	0
95	LIGHT	Z	-.561	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.98	.92
2	MP1A	Z	-10.358	.92
3	MP1A	Mx	-.014	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP1A	X	5.98	4.42
5	MP1A	Z	-10.358	4.42
6	MP1A	Mx	-.014	4.42
7	MP1B	X	4.751	.92
8	MP1B	Z	-8.229	.92
9	MP1B	Mx	.009	.92
10	MP1B	X	4.751	4.42
11	MP1B	Z	-8.229	4.42
12	MP1B	Mx	.009	4.42
13	MP1A	X	5.98	.92
14	MP1A	Z	-10.358	.92
15	MP1A	Mx	.003	.92
16	MP1A	X	5.98	4.42
17	MP1A	Z	-10.358	4.42
18	MP1A	Mx	.003	4.42
19	MP1B	X	4.751	.92
20	MP1B	Z	-8.229	.92
21	MP1B	Mx	.009	.92
22	MP1B	X	4.751	4.42
23	MP1B	Z	-8.229	4.42
24	MP1B	Mx	.009	4.42
25	MP2C	X	5.713	.92
26	MP2C	Z	-9.895	.92
27	MP2C	Mx	.000562	.92
28	MP2C	X	5.713	4.42
29	MP2C	Z	-9.895	4.42
30	MP2C	Mx	.000562	4.42
31	MP2C	X	5.713	.92
32	MP2C	Z	-9.895	.92
33	MP2C	Mx	-.014	.92
34	MP2C	X	5.713	4.42
35	MP2C	Z	-9.895	4.42
36	MP2C	Mx	-.014	4.42
37	MP2A	X	2.58	1.67
38	MP2A	Z	-4.469	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.58	3.67
41	MP2A	Z	-4.469	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	1.191	1.67
44	MP2B	Z	-2.063	1.67
45	MP2B	Mx	.001	1.67
46	MP2B	X	1.191	3.67
47	MP2B	Z	-2.063	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	2.278	1.67
50	MP3C	Z	-3.945	1.67
51	MP3C	Mx	-.001	1.67
52	MP3C	X	2.278	3.67
53	MP3C	Z	-3.945	3.67
54	MP3C	Mx	-.001	3.67
55	MP4A	X	2.181	.91
56	MP4A	Z	-3.777	.91
57	MP4A	Mx	-.001	.91
58	MP4A	X	2.181	4.42
59	MP4A	Z	-3.777	4.42
60	MP4A	Mx	-.001	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP4B	X	1.58	.92
62	MP4B	Z	-2.736	.92
63	MP4B	Mx	.002	.92
64	MP4B	X	1.58	4.42
65	MP4B	Z	-2.736	4.42
66	MP4B	Mx	.002	4.42
67	MP5C	X	2.446	.92
68	MP5C	Z	-4.237	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	2.446	4.42
71	MP5C	Z	-4.237	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	4.322	1
74	OVP	Z	-7.487	1
75	OVP	Mx	0	1
76	MP1A	X	2.221	3.13
77	MP1A	Z	-3.846	3.13
78	MP1A	Mx	.001	3.13
79	MP1B	X	1.619	3.13
80	MP1B	Z	-2.803	3.13
81	MP1B	Mx	-.002	3.13
82	MP2C	X	2.09	3.13
83	MP2C	Z	-3.619	3.13
84	MP2C	Mx	.001	3.13
85	MP2A	X	2.144	3.13
86	MP2A	Z	-3.713	3.13
87	MP2A	Mx	.001	3.13
88	MP2B	X	1.311	3.13
89	MP2B	Z	-2.271	3.13
90	MP2B	Mx	-.001	3.13
91	MP3C	X	1.963	3.13
92	MP3C	Z	-3.399	3.13
93	MP3C	Mx	.001	3.13
94	LIGHT	X	.324	0
95	LIGHT	Z	-.561	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.939	.92
2	MP1A	Z	-5.161	.92
3	MP1A	Mx	-.012	.92
4	MP1A	X	8.939	4.42
5	MP1A	Z	-5.161	4.42
6	MP1A	Mx	-.012	4.42
7	MP1B	X	8.939	.92
8	MP1B	Z	-5.161	.92
9	MP1B	Mx	.004	.92
10	MP1B	X	8.939	4.42
11	MP1B	Z	-5.161	4.42
12	MP1B	Mx	.004	4.42
13	MP1A	X	8.939	.92
14	MP1A	Z	-5.161	.92
15	MP1A	Mx	-.004	.92
16	MP1A	X	8.939	4.42
17	MP1A	Z	-5.161	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP1A	Mx	-.004	4.42
19	MP1B	X	8.939	.92
20	MP1B	Z	-5.161	.92
21	MP1B	Mx	.012	.92
22	MP1B	X	8.939	4.42
23	MP1B	Z	-5.161	4.42
24	MP1B	Mx	.012	4.42
25	MP2C	X	10.983	.92
26	MP2C	Z	-6.341	.92
27	MP2C	Mx	.008	.92
28	MP2C	X	10.983	4.42
29	MP2C	Z	-6.341	4.42
30	MP2C	Mx	.008	4.42
31	MP2C	X	10.983	.92
32	MP2C	Z	-6.341	.92
33	MP2C	Mx	-.012	.92
34	MP2C	X	10.983	4.42
35	MP2C	Z	-6.341	4.42
36	MP2C	Mx	-.012	4.42
37	MP2A	X	2.865	1.67
38	MP2A	Z	-1.654	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.865	3.67
41	MP2A	Z	-1.654	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	2.865	1.67
44	MP2B	Z	-1.654	1.67
45	MP2B	Mx	.001	1.67
46	MP2B	X	2.865	3.67
47	MP2B	Z	-1.654	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	5.174	1.67
50	MP3C	Z	-2.987	1.67
51	MP3C	Mx	-.000519	1.67
52	MP3C	X	5.174	3.67
53	MP3C	Z	-2.987	3.67
54	MP3C	Mx	-.000519	3.67
55	MP4A	X	3.347	.91
56	MP4A	Z	-1.932	.91
57	MP4A	Mx	-.002	.91
58	MP4A	X	3.347	4.42
59	MP4A	Z	-1.932	4.42
60	MP4A	Mx	-.002	4.42
61	MP4B	X	3.376	.92
62	MP4B	Z	-1.949	.92
63	MP4B	Mx	.002	.92
64	MP4B	X	3.376	4.42
65	MP4B	Z	-1.949	4.42
66	MP4B	Mx	.002	4.42
67	MP5C	X	5.216	.92
68	MP5C	Z	-3.011	.92
69	MP5C	Mx	-.000523	.92
70	MP5C	X	5.216	4.42
71	MP5C	Z	-3.011	4.42
72	MP5C	Mx	-.000523	4.42
73	OVP	X	6.947	1
74	OVP	Z	-4.011	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	OVP	Mx	0	1
76	MP1A	X	3.151	3.13
77	MP1A	Z	-1.819	3.13
78	MP1A	Mx	.002	3.13
79	MP1B	X	3.151	3.13
80	MP1B	Z	-1.819	3.13
81	MP1B	Mx	-.002	3.13
82	MP2C	X	4.152	3.13
83	MP2C	Z	-2.397	3.13
84	MP2C	Mx	.000416	3.13
85	MP2A	X	2.752	3.13
86	MP2A	Z	-1.589	3.13
87	MP2A	Mx	.001	3.13
88	MP2B	X	2.752	3.13
89	MP2B	Z	-1.589	3.13
90	MP2B	Mx	-.001	3.13
91	MP3C	X	4.136	3.13
92	MP3C	Z	-2.388	3.13
93	MP3C	Mx	.000415	3.13
94	LIGHT	X	.598	0
95	LIGHT	Z	-.345	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	9.502	.92
2	MP1A	Z	0	.92
3	MP1A	Mx	-.009	.92
4	MP1A	X	9.502	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	-.009	4.42
7	MP1B	X	11.961	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	-.003	.92
10	MP1B	X	11.961	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	-.003	4.42
13	MP1A	X	9.502	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	-.009	.92
16	MP1A	X	9.502	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	-.009	4.42
19	MP1B	X	11.961	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	.014	.92
22	MP1B	X	11.961	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	.014	4.42
25	MP2C	X	12.397	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	.014	.92
28	MP2C	X	12.397	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	.014	4.42
31	MP2C	X	12.397	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP2C	Z	0	.92
33	MP2C	Mx	-.006	.92
34	MP2C	X	12.397	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	-.006	4.42
37	MP2A	X	2.383	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.383	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	5.16	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	.001	1.67
46	MP2B	X	5.16	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	5.653	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	.000967	1.67
52	MP3C	X	5.653	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	.000967	3.67
55	MP4A	X	3.616	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	-.002	.91
58	MP4A	X	3.616	4.42
59	MP4A	Z	0	4.42
60	MP4A	Mx	-.002	4.42
61	MP4B	X	5.374	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	.001	.92
64	MP4B	X	5.374	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	.001	4.42
67	MP5C	X	5.766	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	.000986	.92
70	MP5C	X	5.766	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	.000986	4.42
73	OVP	X	8.645	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	3.237	3.13
77	MP1A	Z	0	3.13
78	MP1A	Mx	.002	3.13
79	MP1B	X	4.441	3.13
80	MP1B	Z	0	3.13
81	MP1B	Mx	-.001	3.13
82	MP2C	X	4.655	3.13
83	MP2C	Z	0	3.13
84	MP2C	Mx	-.000796	3.13
85	MP2A	X	2.622	3.13
86	MP2A	Z	0	3.13
87	MP2A	Mx	.001	3.13
88	MP2B	X	4.288	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP2B	Z	0	3.13
90	MP2B	Mx	-.001	3.13
91	MP3C	X	4.583	3.13
92	MP3C	Z	0	3.13
93	MP3C	Mx	-.000784	3.13
94	LIGHT	X	.647	0
95	LIGHT	Z	0	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	8.939	.92
2	MP1A	Z	5.161	.92
3	MP1A	Mx	-.004	.92
4	MP1A	X	8.939	4.42
5	MP1A	Z	5.161	4.42
6	MP1A	Mx	-.004	4.42
7	MP1B	X	11.068	.92
8	MP1B	Z	6.39	.92
9	MP1B	Mx	-.011	.92
10	MP1B	X	11.068	4.42
11	MP1B	Z	6.39	4.42
12	MP1B	Mx	-.011	4.42
13	MP1A	X	8.939	.92
14	MP1A	Z	5.161	.92
15	MP1A	Mx	-.012	.92
16	MP1A	X	8.939	4.42
17	MP1A	Z	5.161	4.42
18	MP1A	Mx	-.012	4.42
19	MP1B	X	11.068	.92
20	MP1B	Z	6.39	.92
21	MP1B	Mx	.011	.92
22	MP1B	X	11.068	4.42
23	MP1B	Z	6.39	4.42
24	MP1B	Mx	.011	4.42
25	MP2C	X	9.402	.92
26	MP2C	Z	5.428	.92
27	MP2C	Mx	.013	.92
28	MP2C	X	9.402	4.42
29	MP2C	Z	5.428	4.42
30	MP2C	Mx	.013	4.42
31	MP2C	X	9.402	.92
32	MP2C	Z	5.428	.92
33	MP2C	Mx	.002	.92
34	MP2C	X	9.402	4.42
35	MP2C	Z	5.428	4.42
36	MP2C	Mx	.002	4.42
37	MP2A	X	2.865	1.67
38	MP2A	Z	1.654	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.865	3.67
41	MP2A	Z	1.654	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	5.271	1.67
44	MP2B	Z	3.043	1.67
45	MP2B	Mx	0	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP2B	X	5.271	3.67
47	MP2B	Z	3.043	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	3.389	1.67
50	MP3C	Z	1.956	1.67
51	MP3C	Mx	.001	1.67
52	MP3C	X	3.389	3.67
53	MP3C	Z	1.956	3.67
54	MP3C	Mx	.001	3.67
55	MP4A	X	3.347	.91
56	MP4A	Z	1.932	.91
57	MP4A	Mx	-.002	.91
58	MP4A	X	3.347	4.42
59	MP4A	Z	1.932	4.42
60	MP4A	Mx	-.002	4.42
61	MP4B	X	5.293	.92
62	MP4B	Z	3.056	.92
63	MP4B	Mx	0	.92
64	MP4B	X	5.293	4.42
65	MP4B	Z	3.056	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	3.793	.92
68	MP5C	Z	2.19	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	3.793	4.42
71	MP5C	Z	2.19	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	8.566	1
74	OVP	Z	4.946	1
75	OVP	Mx	0	1
76	MP1A	X	3.151	3.13
77	MP1A	Z	1.819	3.13
78	MP1A	Mx	.002	3.13
79	MP1B	X	4.194	3.13
80	MP1B	Z	2.421	3.13
81	MP1B	Mx	0	3.13
82	MP2C	X	3.378	3.13
83	MP2C	Z	1.95	3.13
84	MP2C	Mx	-.001	3.13
85	MP2A	X	2.752	3.13
86	MP2A	Z	1.589	3.13
87	MP2A	Mx	.001	3.13
88	MP2B	X	4.194	3.13
89	MP2B	Z	2.421	3.13
90	MP2B	Mx	0	3.13
91	MP3C	X	3.065	3.13
92	MP3C	Z	1.77	3.13
93	MP3C	Mx	-.001	3.13
94	LIGHT	X	.486	0
95	LIGHT	Z	.281	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	5.98	.92
2	MP1A	Z	10.358	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP1A	Mx	.003	.92
4	MP1A	X	5.98	4.42
5	MP1A	Z	10.358	4.42
6	MP1A	Mx	.003	4.42
7	MP1B	X	5.98	.92
8	MP1B	Z	10.358	.92
9	MP1B	Mx	-.014	.92
10	MP1B	X	5.98	4.42
11	MP1B	Z	10.358	4.42
12	MP1B	Mx	-.014	4.42
13	MP1A	X	5.98	.92
14	MP1A	Z	10.358	.92
15	MP1A	Mx	-.014	.92
16	MP1A	X	5.98	4.42
17	MP1A	Z	10.358	4.42
18	MP1A	Mx	-.014	4.42
19	MP1B	X	5.98	.92
20	MP1B	Z	10.358	.92
21	MP1B	Mx	.003	.92
22	MP1B	X	5.98	4.42
23	MP1B	Z	10.358	4.42
24	MP1B	Mx	.003	4.42
25	MP2C	X	4.8	.92
26	MP2C	Z	8.314	.92
27	MP2C	Mx	.01	.92
28	MP2C	X	4.8	4.42
29	MP2C	Z	8.314	4.42
30	MP2C	Mx	.01	4.42
31	MP2C	X	4.8	.92
32	MP2C	Z	8.314	.92
33	MP2C	Mx	.007	.92
34	MP2C	X	4.8	4.42
35	MP2C	Z	8.314	4.42
36	MP2C	Mx	.007	4.42
37	MP2A	X	2.58	1.67
38	MP2A	Z	4.469	1.67
39	MP2A	Mx	-.001	1.67
40	MP2A	X	2.58	3.67
41	MP2A	Z	4.469	3.67
42	MP2A	Mx	-.001	3.67
43	MP2B	X	2.58	1.67
44	MP2B	Z	4.469	1.67
45	MP2B	Mx	-.001	1.67
46	MP2B	X	2.58	3.67
47	MP2B	Z	4.469	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	1.247	1.67
50	MP3C	Z	2.16	1.67
51	MP3C	Mx	.001	1.67
52	MP3C	X	1.247	3.67
53	MP3C	Z	2.16	3.67
54	MP3C	Mx	.001	3.67
55	MP4A	X	2.181	.91
56	MP4A	Z	3.777	.91
57	MP4A	Mx	-.001	.91
58	MP4A	X	2.181	4.42
59	MP4A	Z	3.777	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP4A	Mx	-.001	4.42
61	MP4B	X	2.687	.92
62	MP4B	Z	4.654	.92
63	MP4B	Mx	-.001	.92
64	MP4B	X	2.687	4.42
65	MP4B	Z	4.654	4.42
66	MP4B	Mx	-.001	4.42
67	MP5C	X	1.624	.92
68	MP5C	Z	2.814	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	1.624	4.42
71	MP5C	Z	2.814	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	5.257	1
74	OVP	Z	9.106	1
75	OVP	Mx	0	1
76	MP1A	X	2.221	3.13
77	MP1A	Z	3.846	3.13
78	MP1A	Mx	.001	3.13
79	MP1B	X	2.221	3.13
80	MP1B	Z	3.846	3.13
81	MP1B	Mx	.001	3.13
82	MP2C	X	1.643	3.13
83	MP2C	Z	2.845	3.13
84	MP2C	Mx	-.002	3.13
85	MP2A	X	2.144	3.13
86	MP2A	Z	3.713	3.13
87	MP2A	Mx	.001	3.13
88	MP2B	X	2.144	3.13
89	MP2B	Z	3.713	3.13
90	MP2B	Mx	.001	3.13
91	MP3C	X	1.345	3.13
92	MP3C	Z	2.329	3.13
93	MP3C	Mx	-.001	3.13
94	LIGHT	X	.259	0
95	LIGHT	Z	.449	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	.92
2	MP1A	Z	12.78	.92
3	MP1A	Mx	.011	.92
4	MP1A	X	0	4.42
5	MP1A	Z	12.78	4.42
6	MP1A	Mx	.011	4.42
7	MP1B	X	0	.92
8	MP1B	Z	10.321	.92
9	MP1B	Mx	-.012	.92
10	MP1B	X	0	4.42
11	MP1B	Z	10.321	4.42
12	MP1B	Mx	-.012	4.42
13	MP1A	X	0	.92
14	MP1A	Z	12.78	.92
15	MP1A	Mx	-.011	.92
16	MP1A	X	0	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP1A	Z	12.78	4.42
18	MP1A	Mx	-.011	4.42
19	MP1B	X	0	.92
20	MP1B	Z	10.321	.92
21	MP1B	Mx	-.004	.92
22	MP1B	X	0	4.42
23	MP1B	Z	10.321	4.42
24	MP1B	Mx	-.004	4.42
25	MP2C	X	0	.92
26	MP2C	Z	9.885	.92
27	MP2C	Mx	.006	.92
28	MP2C	X	0	4.42
29	MP2C	Z	9.885	4.42
30	MP2C	Mx	.006	4.42
31	MP2C	X	0	.92
32	MP2C	Z	9.885	.92
33	MP2C	Mx	.011	.92
34	MP2C	X	0	4.42
35	MP2C	Z	9.885	4.42
36	MP2C	Mx	.011	4.42
37	MP2A	X	0	1.67
38	MP2A	Z	6.086	1.67
39	MP2A	Mx	0	1.67
40	MP2A	X	0	3.67
41	MP2A	Z	6.086	3.67
42	MP2A	Mx	0	3.67
43	MP2B	X	0	1.67
44	MP2B	Z	3.308	1.67
45	MP2B	Mx	-.001	1.67
46	MP2B	X	0	3.67
47	MP2B	Z	3.308	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	0	1.67
50	MP3C	Z	2.816	1.67
51	MP3C	Mx	.001	1.67
52	MP3C	X	0	3.67
53	MP3C	Z	2.816	3.67
54	MP3C	Mx	.001	3.67
55	MP4A	X	0	.91
56	MP4A	Z	4.61	.91
57	MP4A	Mx	0	.91
58	MP4A	X	0	4.42
59	MP4A	Z	4.61	4.42
60	MP4A	Mx	0	4.42
61	MP4B	X	0	.92
62	MP4B	Z	3.898	.92
63	MP4B	Mx	-.002	.92
64	MP4B	X	0	4.42
65	MP4B	Z	3.898	4.42
66	MP4B	Mx	-.002	4.42
67	MP5C	X	0	.92
68	MP5C	Z	3.505	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	0	4.42
71	MP5C	Z	3.505	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	OVP	Z	9.891	1
75	OVP	Mx	0	1
76	MP1A	X	0	3.13
77	MP1A	Z	4.843	3.13
78	MP1A	Mx	0	3.13
79	MP1B	X	0	3.13
80	MP1B	Z	3.639	3.13
81	MP1B	Mx	.002	3.13
82	MP2C	X	0	3.13
83	MP2C	Z	3.425	3.13
84	MP2C	Mx	-.002	3.13
85	MP2A	X	0	3.13
86	MP2A	Z	4.843	3.13
87	MP2A	Mx	0	3.13
88	MP2B	X	0	3.13
89	MP2B	Z	3.177	3.13
90	MP2B	Mx	.001	3.13
91	MP3C	X	0	3.13
92	MP3C	Z	2.882	3.13
93	MP3C	Mx	-.001	3.13
94	LIGHT	X	0	0
95	LIGHT	Z	.561	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.98	.92
2	MP1A	Z	10.358	.92
3	MP1A	Mx	.014	.92
4	MP1A	X	-5.98	4.42
5	MP1A	Z	10.358	4.42
6	MP1A	Mx	.014	4.42
7	MP1B	X	-4.751	.92
8	MP1B	Z	8.229	.92
9	MP1B	Mx	-.009	.92
10	MP1B	X	-4.751	4.42
11	MP1B	Z	8.229	4.42
12	MP1B	Mx	-.009	4.42
13	MP1A	X	-5.98	.92
14	MP1A	Z	10.358	.92
15	MP1A	Mx	-.003	.92
16	MP1A	X	-5.98	4.42
17	MP1A	Z	10.358	4.42
18	MP1A	Mx	-.003	4.42
19	MP1B	X	-4.751	.92
20	MP1B	Z	8.229	.92
21	MP1B	Mx	-.009	.92
22	MP1B	X	-4.751	4.42
23	MP1B	Z	8.229	4.42
24	MP1B	Mx	-.009	4.42
25	MP2C	X	-5.713	.92
26	MP2C	Z	9.895	.92
27	MP2C	Mx	-.000562	.92
28	MP2C	X	-5.713	4.42
29	MP2C	Z	9.895	4.42
30	MP2C	Mx	-.000562	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2C	X	-5.713	.92
32	MP2C	Z	9.895	.92
33	MP2C	Mx	.014	.92
34	MP2C	X	-5.713	4.42
35	MP2C	Z	9.895	4.42
36	MP2C	Mx	.014	4.42
37	MP2A	X	-2.58	1.67
38	MP2A	Z	4.469	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.58	3.67
41	MP2A	Z	4.469	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-1.191	1.67
44	MP2B	Z	2.063	1.67
45	MP2B	Mx	-.001	1.67
46	MP2B	X	-1.191	3.67
47	MP2B	Z	2.063	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	-2.278	1.67
50	MP3C	Z	3.945	1.67
51	MP3C	Mx	.001	1.67
52	MP3C	X	-2.278	3.67
53	MP3C	Z	3.945	3.67
54	MP3C	Mx	.001	3.67
55	MP4A	X	-2.181	.91
56	MP4A	Z	3.777	.91
57	MP4A	Mx	.001	.91
58	MP4A	X	-2.181	4.42
59	MP4A	Z	3.777	4.42
60	MP4A	Mx	.001	4.42
61	MP4B	X	-1.58	.92
62	MP4B	Z	2.736	.92
63	MP4B	Mx	-.002	.92
64	MP4B	X	-1.58	4.42
65	MP4B	Z	2.736	4.42
66	MP4B	Mx	-.002	4.42
67	MP5C	X	-2.446	.92
68	MP5C	Z	4.237	.92
69	MP5C	Mx	.002	.92
70	MP5C	X	-2.446	4.42
71	MP5C	Z	4.237	4.42
72	MP5C	Mx	.002	4.42
73	OVP	X	-4.322	1
74	OVP	Z	7.487	1
75	OVP	Mx	0	1
76	MP1A	X	-2.221	3.13
77	MP1A	Z	3.846	3.13
78	MP1A	Mx	-.001	3.13
79	MP1B	X	-1.619	3.13
80	MP1B	Z	2.803	3.13
81	MP1B	Mx	.002	3.13
82	MP2C	X	-2.09	3.13
83	MP2C	Z	3.619	3.13
84	MP2C	Mx	-.001	3.13
85	MP2A	X	-2.144	3.13
86	MP2A	Z	3.713	3.13
87	MP2A	Mx	-.001	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP2B	X	-1.311	3.13
89	MP2B	Z	2.271	3.13
90	MP2B	Mx	.001	3.13
91	MP3C	X	-1.963	3.13
92	MP3C	Z	3.399	3.13
93	MP3C	Mx	-.001	3.13
94	LIGHT	X	-.324	0
95	LIGHT	Z	.561	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.939	.92
2	MP1A	Z	5.161	.92
3	MP1A	Mx	.012	.92
4	MP1A	X	-8.939	4.42
5	MP1A	Z	5.161	4.42
6	MP1A	Mx	.012	4.42
7	MP1B	X	-8.939	.92
8	MP1B	Z	5.161	.92
9	MP1B	Mx	-.004	.92
10	MP1B	X	-8.939	4.42
11	MP1B	Z	5.161	4.42
12	MP1B	Mx	-.004	4.42
13	MP1A	X	-8.939	.92
14	MP1A	Z	5.161	.92
15	MP1A	Mx	.004	.92
16	MP1A	X	-8.939	4.42
17	MP1A	Z	5.161	4.42
18	MP1A	Mx	.004	4.42
19	MP1B	X	-8.939	.92
20	MP1B	Z	5.161	.92
21	MP1B	Mx	-.012	.92
22	MP1B	X	-8.939	4.42
23	MP1B	Z	5.161	4.42
24	MP1B	Mx	-.012	4.42
25	MP2C	X	-10.983	.92
26	MP2C	Z	6.341	.92
27	MP2C	Mx	-.008	.92
28	MP2C	X	-10.983	4.42
29	MP2C	Z	6.341	4.42
30	MP2C	Mx	-.008	4.42
31	MP2C	X	-10.983	.92
32	MP2C	Z	6.341	.92
33	MP2C	Mx	.012	.92
34	MP2C	X	-10.983	4.42
35	MP2C	Z	6.341	4.42
36	MP2C	Mx	.012	4.42
37	MP2A	X	-2.865	1.67
38	MP2A	Z	1.654	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.865	3.67
41	MP2A	Z	1.654	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-2.865	1.67
44	MP2B	Z	1.654	1.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	-.001	1.67
46	MP2B	X	-2.865	3.67
47	MP2B	Z	1.654	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	-5.174	1.67
50	MP3C	Z	2.987	1.67
51	MP3C	Mx	.000519	1.67
52	MP3C	X	-5.174	3.67
53	MP3C	Z	2.987	3.67
54	MP3C	Mx	.000519	3.67
55	MP4A	X	-3.347	.91
56	MP4A	Z	1.932	.91
57	MP4A	Mx	.002	.91
58	MP4A	X	-3.347	4.42
59	MP4A	Z	1.932	4.42
60	MP4A	Mx	.002	4.42
61	MP4B	X	-3.376	.92
62	MP4B	Z	1.949	.92
63	MP4B	Mx	-.002	.92
64	MP4B	X	-3.376	4.42
65	MP4B	Z	1.949	4.42
66	MP4B	Mx	-.002	4.42
67	MP5C	X	-5.216	.92
68	MP5C	Z	3.011	.92
69	MP5C	Mx	.000523	.92
70	MP5C	X	-5.216	4.42
71	MP5C	Z	3.011	4.42
72	MP5C	Mx	.000523	4.42
73	OVP	X	-6.947	1
74	OVP	Z	4.011	1
75	OVP	Mx	0	1
76	MP1A	X	-3.151	3.13
77	MP1A	Z	1.819	3.13
78	MP1A	Mx	-.002	3.13
79	MP1B	X	-3.151	3.13
80	MP1B	Z	1.819	3.13
81	MP1B	Mx	.002	3.13
82	MP2C	X	-4.152	3.13
83	MP2C	Z	2.397	3.13
84	MP2C	Mx	-.000416	3.13
85	MP2A	X	-2.752	3.13
86	MP2A	Z	1.589	3.13
87	MP2A	Mx	-.001	3.13
88	MP2B	X	-2.752	3.13
89	MP2B	Z	1.589	3.13
90	MP2B	Mx	.001	3.13
91	MP3C	X	-4.136	3.13
92	MP3C	Z	2.388	3.13
93	MP3C	Mx	-.000415	3.13
94	LIGHT	X	-.598	0
95	LIGHT	Z	.345	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-9.502	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP1A	Z	0	.92
3	MP1A	Mx	.009	.92
4	MP1A	X	-9.502	4.42
5	MP1A	Z	0	4.42
6	MP1A	Mx	.009	4.42
7	MP1B	X	-11.961	.92
8	MP1B	Z	0	.92
9	MP1B	Mx	.003	.92
10	MP1B	X	-11.961	4.42
11	MP1B	Z	0	4.42
12	MP1B	Mx	.003	4.42
13	MP1A	X	-9.502	.92
14	MP1A	Z	0	.92
15	MP1A	Mx	.009	.92
16	MP1A	X	-9.502	4.42
17	MP1A	Z	0	4.42
18	MP1A	Mx	.009	4.42
19	MP1B	X	-11.961	.92
20	MP1B	Z	0	.92
21	MP1B	Mx	-.014	.92
22	MP1B	X	-11.961	4.42
23	MP1B	Z	0	4.42
24	MP1B	Mx	-.014	4.42
25	MP2C	X	-12.397	.92
26	MP2C	Z	0	.92
27	MP2C	Mx	-.014	.92
28	MP2C	X	-12.397	4.42
29	MP2C	Z	0	4.42
30	MP2C	Mx	-.014	4.42
31	MP2C	X	-12.397	.92
32	MP2C	Z	0	.92
33	MP2C	Mx	.006	.92
34	MP2C	X	-12.397	4.42
35	MP2C	Z	0	4.42
36	MP2C	Mx	.006	4.42
37	MP2A	X	-2.383	1.67
38	MP2A	Z	0	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.383	3.67
41	MP2A	Z	0	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-5.16	1.67
44	MP2B	Z	0	1.67
45	MP2B	Mx	-.001	1.67
46	MP2B	X	-5.16	3.67
47	MP2B	Z	0	3.67
48	MP2B	Mx	-.001	3.67
49	MP3C	X	-5.653	1.67
50	MP3C	Z	0	1.67
51	MP3C	Mx	-.000967	1.67
52	MP3C	X	-5.653	3.67
53	MP3C	Z	0	3.67
54	MP3C	Mx	-.000967	3.67
55	MP4A	X	-3.616	.91
56	MP4A	Z	0	.91
57	MP4A	Mx	.002	.91
58	MP4A	X	-3.616	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP4A	Z	0	4.42
60	MP4A	Mx	.002	4.42
61	MP4B	X	-5.374	.92
62	MP4B	Z	0	.92
63	MP4B	Mx	-.001	.92
64	MP4B	X	-5.374	4.42
65	MP4B	Z	0	4.42
66	MP4B	Mx	-.001	4.42
67	MP5C	X	-5.766	.92
68	MP5C	Z	0	.92
69	MP5C	Mx	-.000986	.92
70	MP5C	X	-5.766	4.42
71	MP5C	Z	0	4.42
72	MP5C	Mx	-.000986	4.42
73	OVP	X	-8.645	1
74	OVP	Z	0	1
75	OVP	Mx	0	1
76	MP1A	X	-3.237	3.13
77	MP1A	Z	0	3.13
78	MP1A	Mx	-.002	3.13
79	MP1B	X	-4.441	3.13
80	MP1B	Z	0	3.13
81	MP1B	Mx	.001	3.13
82	MP2C	X	-4.655	3.13
83	MP2C	Z	0	3.13
84	MP2C	Mx	.000796	3.13
85	MP2A	X	-2.622	3.13
86	MP2A	Z	0	3.13
87	MP2A	Mx	-.001	3.13
88	MP2B	X	-4.288	3.13
89	MP2B	Z	0	3.13
90	MP2B	Mx	.001	3.13
91	MP3C	X	-4.583	3.13
92	MP3C	Z	0	3.13
93	MP3C	Mx	.000784	3.13
94	LIGHT	X	-.647	0
95	LIGHT	Z	0	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-8.939	.92
2	MP1A	Z	-5.161	.92
3	MP1A	Mx	.004	.92
4	MP1A	X	-8.939	4.42
5	MP1A	Z	-5.161	4.42
6	MP1A	Mx	.004	4.42
7	MP1B	X	-11.068	.92
8	MP1B	Z	-6.39	.92
9	MP1B	Mx	.011	.92
10	MP1B	X	-11.068	4.42
11	MP1B	Z	-6.39	4.42
12	MP1B	Mx	.011	4.42
13	MP1A	X	-8.939	.92
14	MP1A	Z	-5.161	.92
15	MP1A	Mx	.012	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP1A	X	-8.939	4.42
17	MP1A	Z	-5.161	4.42
18	MP1A	Mx	.012	4.42
19	MP1B	X	-11.068	.92
20	MP1B	Z	-6.39	.92
21	MP1B	Mx	-.011	.92
22	MP1B	X	-11.068	4.42
23	MP1B	Z	-6.39	4.42
24	MP1B	Mx	-.011	4.42
25	MP2C	X	-9.402	.92
26	MP2C	Z	-5.428	.92
27	MP2C	Mx	-.013	.92
28	MP2C	X	-9.402	4.42
29	MP2C	Z	-5.428	4.42
30	MP2C	Mx	-.013	4.42
31	MP2C	X	-9.402	.92
32	MP2C	Z	-5.428	.92
33	MP2C	Mx	-.002	.92
34	MP2C	X	-9.402	4.42
35	MP2C	Z	-5.428	4.42
36	MP2C	Mx	-.002	4.42
37	MP2A	X	-2.865	1.67
38	MP2A	Z	-1.654	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.865	3.67
41	MP2A	Z	-1.654	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-5.271	1.67
44	MP2B	Z	-3.043	1.67
45	MP2B	Mx	0	1.67
46	MP2B	X	-5.271	3.67
47	MP2B	Z	-3.043	3.67
48	MP2B	Mx	0	3.67
49	MP3C	X	-3.389	1.67
50	MP3C	Z	-1.956	1.67
51	MP3C	Mx	-.001	1.67
52	MP3C	X	-3.389	3.67
53	MP3C	Z	-1.956	3.67
54	MP3C	Mx	-.001	3.67
55	MP4A	X	-3.347	.91
56	MP4A	Z	-1.932	.91
57	MP4A	Mx	.002	.91
58	MP4A	X	-3.347	4.42
59	MP4A	Z	-1.932	4.42
60	MP4A	Mx	.002	4.42
61	MP4B	X	-5.293	.92
62	MP4B	Z	-3.056	.92
63	MP4B	Mx	0	.92
64	MP4B	X	-5.293	4.42
65	MP4B	Z	-3.056	4.42
66	MP4B	Mx	0	4.42
67	MP5C	X	-3.793	.92
68	MP5C	Z	-2.19	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	-3.793	4.42
71	MP5C	Z	-2.19	4.42
72	MP5C	Mx	-.002	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	OVP	X	-8.566	1
74	OVP	Z	-4.946	1
75	OVP	Mx	0	1
76	MP1A	X	-3.151	3.13
77	MP1A	Z	-1.819	3.13
78	MP1A	Mx	-.002	3.13
79	MP1B	X	-4.194	3.13
80	MP1B	Z	-2.421	3.13
81	MP1B	Mx	0	3.13
82	MP2C	X	-3.378	3.13
83	MP2C	Z	-1.95	3.13
84	MP2C	Mx	.001	3.13
85	MP2A	X	-2.752	3.13
86	MP2A	Z	-1.589	3.13
87	MP2A	Mx	-.001	3.13
88	MP2B	X	-4.194	3.13
89	MP2B	Z	-2.421	3.13
90	MP2B	Mx	0	3.13
91	MP3C	X	-3.065	3.13
92	MP3C	Z	-1.77	3.13
93	MP3C	Mx	.001	3.13
94	LIGHT	X	-.486	0
95	LIGHT	Z	-.281	0
96	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	-5.98	.92
2	MP1A	Z	-10.358	.92
3	MP1A	Mx	-.003	.92
4	MP1A	X	-5.98	4.42
5	MP1A	Z	-10.358	4.42
6	MP1A	Mx	-.003	4.42
7	MP1B	X	-5.98	.92
8	MP1B	Z	-10.358	.92
9	MP1B	Mx	.014	.92
10	MP1B	X	-5.98	4.42
11	MP1B	Z	-10.358	4.42
12	MP1B	Mx	.014	4.42
13	MP1A	X	-5.98	.92
14	MP1A	Z	-10.358	.92
15	MP1A	Mx	.014	.92
16	MP1A	X	-5.98	4.42
17	MP1A	Z	-10.358	4.42
18	MP1A	Mx	.014	4.42
19	MP1B	X	-5.98	.92
20	MP1B	Z	-10.358	.92
21	MP1B	Mx	-.003	.92
22	MP1B	X	-5.98	4.42
23	MP1B	Z	-10.358	4.42
24	MP1B	Mx	-.003	4.42
25	MP2C	X	-4.8	.92
26	MP2C	Z	-8.314	.92
27	MP2C	Mx	-.01	.92
28	MP2C	X	-4.8	4.42
29	MP2C	Z	-8.314	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP2C	Mx	-.01	4.42
31	MP2C	X	-4.8	.92
32	MP2C	Z	-8.314	.92
33	MP2C	Mx	-.007	.92
34	MP2C	X	-4.8	4.42
35	MP2C	Z	-8.314	4.42
36	MP2C	Mx	-.007	4.42
37	MP2A	X	-2.58	1.67
38	MP2A	Z	-4.469	1.67
39	MP2A	Mx	.001	1.67
40	MP2A	X	-2.58	3.67
41	MP2A	Z	-4.469	3.67
42	MP2A	Mx	.001	3.67
43	MP2B	X	-2.58	1.67
44	MP2B	Z	-4.469	1.67
45	MP2B	Mx	.001	1.67
46	MP2B	X	-2.58	3.67
47	MP2B	Z	-4.469	3.67
48	MP2B	Mx	.001	3.67
49	MP3C	X	-1.247	1.67
50	MP3C	Z	-2.16	1.67
51	MP3C	Mx	-.001	1.67
52	MP3C	X	-1.247	3.67
53	MP3C	Z	-2.16	3.67
54	MP3C	Mx	-.001	3.67
55	MP4A	X	-2.181	.91
56	MP4A	Z	-3.777	.91
57	MP4A	Mx	.001	.91
58	MP4A	X	-2.181	4.42
59	MP4A	Z	-3.777	4.42
60	MP4A	Mx	.001	4.42
61	MP4B	X	-2.687	.92
62	MP4B	Z	-4.654	.92
63	MP4B	Mx	.001	.92
64	MP4B	X	-2.687	4.42
65	MP4B	Z	-4.654	4.42
66	MP4B	Mx	.001	4.42
67	MP5C	X	-1.624	.92
68	MP5C	Z	-2.814	.92
69	MP5C	Mx	-.002	.92
70	MP5C	X	-1.624	4.42
71	MP5C	Z	-2.814	4.42
72	MP5C	Mx	-.002	4.42
73	OVP	X	-5.257	1
74	OVP	Z	-9.106	1
75	OVP	Mx	0	1
76	MP1A	X	-2.221	3.13
77	MP1A	Z	-3.846	3.13
78	MP1A	Mx	-.001	3.13
79	MP1B	X	-2.221	3.13
80	MP1B	Z	-3.846	3.13
81	MP1B	Mx	-.001	3.13
82	MP2C	X	-1.643	3.13
83	MP2C	Z	-2.845	3.13
84	MP2C	Mx	.002	3.13
85	MP2A	X	-2.144	3.13
86	MP2A	Z	-3.713	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
87	MP2A	Mx	-.001	3.13
88	MP2B	X	-2.144	3.13
89	MP2B	Z	-3.713	3.13
90	MP2B	Mx	-.001	3.13
91	MP3C	X	-1.345	3.13
92	MP3C	Z	-2.329	3.13
93	MP3C	Mx	.001	3.13
94	LIGHT	X	-.259	0
95	LIGHT	Z	-.449	0
96	LIGHT	Mx	0	0

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M7A	Y	-500	%83

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M7A	Y	-500	%47

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M7A	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M7A	Y	-250	%100

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-.986	.92
2	MP1A	My	-.000904	.92
3	MP1A	Mz	.000822	.92
4	MP1A	Y	-.986	4.42
5	MP1A	My	-.000904	4.42
6	MP1A	Mz	.000822	4.42
7	MP1B	Y	-.986	.92
8	MP1B	My	-.00026	.92
9	MP1B	Mz	-.001	.92
10	MP1B	Y	-.986	4.42
11	MP1B	My	-.00026	4.42
12	MP1B	Mz	-.001	4.42
13	MP1A	Y	-.986	.92
14	MP1A	My	-.000904	.92
15	MP1A	Mz	-.000822	.92
16	MP1A	Y	-.986	4.42
17	MP1A	My	-.000904	4.42
18	MP1A	Mz	-.000822	4.42
19	MP1B	Y	-.986	.92
20	MP1B	My	.001	.92
21	MP1B	Mz	-.000372	.92
22	MP1B	Y	-.986	4.42
23	MP1B	My	.001	4.42
24	MP1B	Mz	-.000372	4.42
25	MP2C	Y	-.986	.92

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2C	My	.001	.92
27	MP2C	Mz	.000568	.92
28	MP2C	Y	-.986	4.42
29	MP2C	My	.001	4.42
30	MP2C	Mz	.000568	4.42
31	MP2C	Y	-.986	.92
32	MP2C	My	-.000463	.92
33	MP2C	Mz	.001	.92
34	MP2C	Y	-.986	4.42
35	MP2C	My	-.000463	4.42
36	MP2C	Mz	.001	4.42
37	MP2A	Y	-1.867	1.67
38	MP2A	My	-.000934	1.67
39	MP2A	Mz	0	1.67
40	MP2A	Y	-1.867	3.67
41	MP2A	My	-.000934	3.67
42	MP2A	Mz	0	3.67
43	MP2B	Y	-1.867	1.67
44	MP2B	My	.000467	1.67
45	MP2B	Mz	-.000809	1.67
46	MP2B	Y	-1.867	3.67
47	MP2B	My	.000467	3.67
48	MP2B	Mz	-.000809	3.67
49	MP3C	Y	-1.867	1.67
50	MP3C	My	.000319	1.67
51	MP3C	Mz	.000877	1.67
52	MP3C	Y	-1.867	3.67
53	MP3C	My	.000319	3.67
54	MP3C	Mz	.000877	3.67
55	MP4A	Y	-.257	.91
56	MP4A	My	-.000129	.91
57	MP4A	Mz	0	.91
58	MP4A	Y	-.257	4.42
59	MP4A	My	-.000129	4.42
60	MP4A	Mz	0	4.42
61	MP4B	Y	-.212	.92
62	MP4B	My	5.3e-5	.92
63	MP4B	Mz	-9.2e-5	.92
64	MP4B	Y	-.212	4.42
65	MP4B	My	5.3e-5	4.42
66	MP4B	Mz	-9.2e-5	4.42
67	MP5C	Y	-.212	.92
68	MP5C	My	3.6e-5	.92
69	MP5C	Mz	.0001	.92
70	MP5C	Y	-.212	4.42
71	MP5C	My	3.6e-5	4.42
72	MP5C	Mz	.0001	4.42
73	OVP	Y	-1.372	1
74	OVP	My	0	1
75	OVP	Mz	0	1
76	MP1A	Y	-3.619	3.13
77	MP1A	My	.002	3.13
78	MP1A	Mz	0	3.13
79	MP1B	Y	-3.619	3.13
80	MP1B	My	-.000905	3.13
81	MP1B	Mz	.002	3.13
82	MP2C	Y	-3.619	3.13

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP2C	My	-.000619	3.13
84	MP2C	Mz	-.002	3.13
85	MP2A	Y	-3.014	3.13
86	MP2A	My	.002	3.13
87	MP2A	Mz	0	3.13
88	MP2B	Y	-3.014	3.13
89	MP2B	My	-.000754	3.13
90	MP2B	Mz	.001	3.13
91	MP3C	Y	-3.014	3.13
92	MP3C	My	-.000516	3.13
93	MP3C	Mz	-.001	3.13
94	LIGHT	Y	-.129	0
95	LIGHT	My	0	0
96	LIGHT	Mz	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Z	-2.466	.92
2	MP1A	Mx	-.002	.92
3	MP1A	Z	-2.466	4.42
4	MP1A	Mx	-.002	4.42
5	MP1B	Z	-2.466	.92
6	MP1B	Mx	.003	.92
7	MP1B	Z	-2.466	4.42
8	MP1B	Mx	.003	4.42
9	MP1A	Z	-2.466	.92
10	MP1A	Mx	.002	.92
11	MP1A	Z	-2.466	4.42
12	MP1A	Mx	.002	4.42
13	MP1B	Z	-2.466	.92
14	MP1B	Mx	.00093	.92
15	MP1B	Z	-2.466	4.42
16	MP1B	Mx	.00093	4.42
17	MP2C	Z	-2.466	.92
18	MP2C	Mx	-.001	.92
19	MP2C	Z	-2.466	4.42
20	MP2C	Mx	-.001	4.42
21	MP2C	Z	-2.466	.92
22	MP2C	Mx	-.003	.92
23	MP2C	Z	-2.466	4.42
24	MP2C	Mx	-.003	4.42
25	MP2A	Z	-4.669	1.67
26	MP2A	Mx	0	1.67
27	MP2A	Z	-4.669	3.67
28	MP2A	Mx	0	3.67
29	MP2B	Z	-4.669	1.67
30	MP2B	Mx	.002	1.67
31	MP2B	Z	-4.669	3.67
32	MP2B	Mx	.002	3.67
33	MP3C	Z	-4.669	1.67
34	MP3C	Mx	-.002	1.67
35	MP3C	Z	-4.669	3.67
36	MP3C	Mx	-.002	3.67
37	MP4A	Z	-.643	.91
38	MP4A	Mx	0	.91
39	MP4A	Z	-.643	4.42

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP4A	Mx	0	4.42
41	MP4B	Z	-.531	.92
42	MP4B	Mx	.00023	.92
43	MP4B	Z	-.531	4.42
44	MP4B	Mx	.00023	4.42
45	MP5C	Z	-.531	.92
46	MP5C	Mx	-.000249	.92
47	MP5C	Z	-.531	4.42
48	MP5C	Mx	-.000249	4.42
49	OVP	Z	-3.43	1
50	OVP	Mx	0	1
51	MP1A	Z	-9.048	3.13
52	MP1A	Mx	0	3.13
53	MP1B	Z	-9.048	3.13
54	MP1B	Mx	-.004	3.13
55	MP2C	Z	-9.048	3.13
56	MP2C	Mx	.004	3.13
57	MP2A	Z	-7.536	3.13
58	MP2A	Mx	0	3.13
59	MP2B	Z	-7.536	3.13
60	MP2B	Mx	-.003	3.13
61	MP3C	Z	-7.536	3.13
62	MP3C	Mx	.004	3.13
63	LIGHT	Z	-.322	0
64	LIGHT	Mx	0	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	2.466	.92
2	MP1A	Mx	-.002	.92
3	MP1A	X	2.466	4.42
4	MP1A	Mx	-.002	4.42
5	MP1B	X	2.466	.92
6	MP1B	Mx	-.000649	.92
7	MP1B	X	2.466	4.42
8	MP1B	Mx	-.000649	4.42
9	MP1A	X	2.466	.92
10	MP1A	Mx	-.002	.92
11	MP1A	X	2.466	4.42
12	MP1A	Mx	-.002	4.42
13	MP1B	X	2.466	.92
14	MP1B	Mx	.003	.92
15	MP1B	X	2.466	4.42
16	MP1B	Mx	.003	4.42
17	MP2C	X	2.466	.92
18	MP2C	Mx	.003	.92
19	MP2C	X	2.466	4.42
20	MP2C	Mx	.003	4.42
21	MP2C	X	2.466	.92
22	MP2C	Mx	-.001	.92
23	MP2C	X	2.466	4.42
24	MP2C	Mx	-.001	4.42
25	MP2A	X	4.669	1.67
26	MP2A	Mx	-.002	1.67
27	MP2A	X	4.669	3.67
28	MP2A	Mx	-.002	3.67

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP2B	X	4.669	1.67
30	MP2B	Mx	.001	1.67
31	MP2B	X	4.669	3.67
32	MP2B	Mx	.001	3.67
33	MP3C	X	4.669	1.67
34	MP3C	Mx	.000798	1.67
35	MP3C	X	4.669	3.67
36	MP3C	Mx	.000798	3.67
37	MP4A	X	.643	.91
38	MP4A	Mx	-.000322	.91
39	MP4A	X	.643	4.42
40	MP4A	Mx	-.000322	4.42
41	MP4B	X	.531	.92
42	MP4B	Mx	.000133	.92
43	MP4B	X	.531	4.42
44	MP4B	Mx	.000133	4.42
45	MP5C	X	.531	.92
46	MP5C	Mx	9.1e-5	.92
47	MP5C	X	.531	4.42
48	MP5C	Mx	9.1e-5	4.42
49	OVP	X	3.43	1
50	OVP	Mx	0	1
51	MP1A	X	9.048	3.13
52	MP1A	Mx	.005	3.13
53	MP1B	X	9.048	3.13
54	MP1B	Mx	-.002	3.13
55	MP2C	X	9.048	3.13
56	MP2C	Mx	-.002	3.13
57	MP2A	X	7.536	3.13
58	MP2A	Mx	.004	3.13
59	MP2B	X	7.536	3.13
60	MP2B	Mx	-.002	3.13
61	MP3C	X	7.536	3.13
62	MP3C	Mx	-.001	3.13
63	LIGHT	X	.322	0
64	LIGHT	Mx	0	0

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.489	-9.489	0	%100
2	M2	Y	-10.475	-10.475	0	%100
3	M5	Y	-9.967	-9.967	0	%100
4	M6	Y	-9.967	-9.967	0	%100
5	M7	Y	-9.967	-9.967	0	%100
6	M6A	Y	-7.515	-7.515	0	%100
7	M7A	Y	-7.515	-7.515	0	%100
8	M23A	Y	-7.515	-7.515	0	%100
9	M24	Y	-7.515	-7.515	0	%100
10	M38	Y	-9.489	-9.489	0	%100
11	M39A	Y	-7.515	-7.515	0	%100
12	M40	Y	-7.515	-7.515	0	%100
13	M54	Y	-9.489	-9.489	0	%100
14	M55	Y	-10.475	-10.475	0	%100
15	M56	Y	-10.475	-10.475	0	%100
16	MP2A	Y	-4.909	-4.909	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	MP3A	Y	-4.909	-4.909	0	%100
18	MP4A	Y	-4.909	-4.909	0	%100
19	MP1A	Y	-5.606	-5.606	0	%100
20	MP3C	Y	-4.909	-4.909	0	%100
21	MP4C	Y	-4.909	-4.909	0	%100
22	MP5C	Y	-4.909	-4.909	0	%100
23	MP2C	Y	-5.606	-5.606	0	%100
24	MP2B	Y	-4.909	-4.909	0	%100
25	MP3B	Y	-4.909	-4.909	0	%100
26	MP4B	Y	-4.909	-4.909	0	%100
27	MP1B	Y	-5.606	-5.606	0	%100
28	MP1C	Y	-4.909	-4.909	0	%100
29	LIGHT	Y	-3.911	-3.911	0	%100
30	OVP	Y	-4.909	-4.909	0	%100
31	M58	Y	-5.606	-5.606	0	%100
32	M65	Y	-5.606	-5.606	0	%100
33	M66	Y	-5.606	-5.606	0	%100
34	M67	Y	-7.515	-7.515	0	%100
35	M68	Y	-7.515	-7.515	0	%100
36	M69	Y	-7.515	-7.515	0	%100
37	M78	Y	-10.491	-10.491	0	%100
38	M79	Y	-10.491	-10.491	0	%100
39	M80	Y	-10.491	-10.491	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-12.989	-12.989	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-12.989	-12.989	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-20.374	-20.374	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-20.374	-20.374	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-5.094	-5.094	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	-5.094	-5.094	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	-8.733	-8.733	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	-5.094	-5.094	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	-5.094	-5.094	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	-8.733	-8.733	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	-11.376	-11.376	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	-11.376	-11.376	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	MP2A	X	0	0	0	%100
32	MP2A	Z	-9.678	-9.678	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-9.678	-9.678	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	-9.678	-9.678	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-11.715	-11.715	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	-9.678	-9.678	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	-9.678	-9.678	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	-9.678	-9.678	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	-11.715	-11.715	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	-9.678	-9.678	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	-9.678	-9.678	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	-9.678	-9.678	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-11.715	-11.715	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	-9.678	-9.678	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	-4.84	-4.84	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	-7.914	-7.914	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	-11.715	-11.715	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	-2.929	-2.929	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	-2.929	-2.929	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	-3.468	-3.468	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	-3.468	-3.468	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	-13.87	-13.87	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	-17.429	-17.429	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	-17.429	-17.429	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	-9.076	-9.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.455	1.455	0	%100
2	M1	Z	-2.521	-2.521	0	%100
3	M2	X	1.896	1.896	0	%100
4	M2	Z	-3.284	-3.284	0	%100
5	M5	X	2.165	2.165	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
6	M5	Z	-3.749	-3.749	0	%100
7	M6	X	2.165	2.165	0	%100
8	M6	Z	-3.749	-3.749	0	%100
9	M7	X	8.659	8.659	0	%100
10	M7	Z	-14.998	-14.998	0	%100
11	M6A	X	7.64	7.64	0	%100
12	M6A	Z	-13.233	-13.233	0	%100
13	M7A	X	7.64	7.64	0	%100
14	M7A	Z	-13.233	-13.233	0	%100
15	M23A	X	7.64	7.64	0	%100
16	M23A	Z	-13.233	-13.233	0	%100
17	M24	X	7.64	7.64	0	%100
18	M24	Z	-13.233	-13.233	0	%100
19	M38	X	1.455	1.455	0	%100
20	M38	Z	-2.521	-2.521	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	5.822	5.822	0	%100
26	M54	Z	-10.084	-10.084	0	%100
27	M55	X	1.896	1.896	0	%100
28	M55	Z	-3.284	-3.284	0	%100
29	M56	X	7.584	7.584	0	%100
30	M56	Z	-13.135	-13.135	0	%100
31	MP2A	X	4.839	4.839	0	%100
32	MP2A	Z	-8.381	-8.381	0	%100
33	MP3A	X	4.839	4.839	0	%100
34	MP3A	Z	-8.381	-8.381	0	%100
35	MP4A	X	4.839	4.839	0	%100
36	MP4A	Z	-8.381	-8.381	0	%100
37	MP1A	X	5.858	5.858	0	%100
38	MP1A	Z	-10.146	-10.146	0	%100
39	MP3C	X	4.839	4.839	0	%100
40	MP3C	Z	-8.381	-8.381	0	%100
41	MP4C	X	4.839	4.839	0	%100
42	MP4C	Z	-8.381	-8.381	0	%100
43	MP5C	X	4.839	4.839	0	%100
44	MP5C	Z	-8.381	-8.381	0	%100
45	MP2C	X	5.858	5.858	0	%100
46	MP2C	Z	-10.146	-10.146	0	%100
47	MP2B	X	4.839	4.839	0	%100
48	MP2B	Z	-8.381	-8.381	0	%100
49	MP3B	X	4.839	4.839	0	%100
50	MP3B	Z	-8.381	-8.381	0	%100
51	MP4B	X	4.839	4.839	0	%100
52	MP4B	Z	-8.381	-8.381	0	%100
53	MP1B	X	5.858	5.858	0	%100
54	MP1B	Z	-10.146	-10.146	0	%100
55	MP1C	X	4.839	4.839	0	%100
56	MP1C	Z	-8.381	-8.381	0	%100
57	LIGHT	X	2.42	2.42	0	%100
58	LIGHT	Z	-4.192	-4.192	0	%100
59	OVP	X	3.957	3.957	0	%100
60	OVP	Z	-6.854	-6.854	0	%100
61	M58	X	4.393	4.393	0	%100
62	M58	Z	-7.609	-7.609	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
63	M65	X	4.393	4.393	0	%100
64	M65	Z	-7.609	-7.609	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	5.201	5.201	0	%100
68	M67	Z	-9.009	-9.009	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	5.201	5.201	0	%100
72	M69	Z	-9.009	-9.009	0	%100
73	M78	X	5.93	5.93	0	%100
74	M78	Z	-10.271	-10.271	0	%100
75	M79	X	10.107	10.107	0	%100
76	M79	Z	-17.505	-17.505	0	%100
77	M80	X	5.93	5.93	0	%100
78	M80	Z	-10.271	-10.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	7.563	7.563	0	%100
2	M1	Z	-4.366	-4.366	0	%100
3	M2	X	9.852	9.852	0	%100
4	M2	Z	-5.688	-5.688	0	%100
5	M5	X	11.248	11.248	0	%100
6	M5	Z	-6.494	-6.494	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	11.248	11.248	0	%100
10	M7	Z	-6.494	-6.494	0	%100
11	M6A	X	4.411	4.411	0	%100
12	M6A	Z	-2.547	-2.547	0	%100
13	M7A	X	4.411	4.411	0	%100
14	M7A	Z	-2.547	-2.547	0	%100
15	M23A	X	17.645	17.645	0	%100
16	M23A	Z	-10.187	-10.187	0	%100
17	M24	X	17.645	17.645	0	%100
18	M24	Z	-10.187	-10.187	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	4.411	4.411	0	%100
22	M39A	Z	-2.547	-2.547	0	%100
23	M40	X	4.411	4.411	0	%100
24	M40	Z	-2.547	-2.547	0	%100
25	M54	X	7.563	7.563	0	%100
26	M54	Z	-4.366	-4.366	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	9.852	9.852	0	%100
30	M56	Z	-5.688	-5.688	0	%100
31	MP2A	X	8.381	8.381	0	%100
32	MP2A	Z	-4.839	-4.839	0	%100
33	MP3A	X	8.381	8.381	0	%100
34	MP3A	Z	-4.839	-4.839	0	%100
35	MP4A	X	8.381	8.381	0	%100
36	MP4A	Z	-4.839	-4.839	0	%100
37	MP1A	X	10.146	10.146	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
38	MP1A	Z	-5.858	-5.858	0	%100
39	MP3C	X	8.381	8.381	0	%100
40	MP3C	Z	-4.839	-4.839	0	%100
41	MP4C	X	8.381	8.381	0	%100
42	MP4C	Z	-4.839	-4.839	0	%100
43	MP5C	X	8.381	8.381	0	%100
44	MP5C	Z	-4.839	-4.839	0	%100
45	MP2C	X	10.146	10.146	0	%100
46	MP2C	Z	-5.858	-5.858	0	%100
47	MP2B	X	8.381	8.381	0	%100
48	MP2B	Z	-4.839	-4.839	0	%100
49	MP3B	X	8.381	8.381	0	%100
50	MP3B	Z	-4.839	-4.839	0	%100
51	MP4B	X	8.381	8.381	0	%100
52	MP4B	Z	-4.839	-4.839	0	%100
53	MP1B	X	10.146	10.146	0	%100
54	MP1B	Z	-5.858	-5.858	0	%100
55	MP1C	X	8.381	8.381	0	%100
56	MP1C	Z	-4.839	-4.839	0	%100
57	LIGHT	X	4.192	4.192	0	%100
58	LIGHT	Z	-2.42	-2.42	0	%100
59	OVP	X	6.854	6.854	0	%100
60	OVP	Z	-3.957	-3.957	0	%100
61	M58	X	2.536	2.536	0	%100
62	M58	Z	-1.464	-1.464	0	%100
63	M65	X	10.146	10.146	0	%100
64	M65	Z	-5.858	-5.858	0	%100
65	M66	X	2.536	2.536	0	%100
66	M66	Z	-1.464	-1.464	0	%100
67	M67	X	12.012	12.012	0	%100
68	M67	Z	-6.935	-6.935	0	%100
69	M68	X	3.003	3.003	0	%100
70	M68	Z	-1.734	-1.734	0	%100
71	M69	X	3.003	3.003	0	%100
72	M69	Z	-1.734	-1.734	0	%100
73	M78	X	7.86	7.86	0	%100
74	M78	Z	-4.538	-4.538	0	%100
75	M79	X	15.094	15.094	0	%100
76	M79	Z	-8.714	-8.714	0	%100
77	M80	X	15.094	15.094	0	%100
78	M80	Z	-8.714	-8.714	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	11.644	11.644	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	15.167	15.167	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	17.318	17.318	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	4.33	4.33	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	4.33	4.33	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	15.281	15.281	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	15.281	15.281	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	2.911	2.911	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	15.281	15.281	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	15.281	15.281	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	2.911	2.911	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	3.792	3.792	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	3.792	3.792	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	9.678	9.678	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	9.678	9.678	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	9.678	9.678	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	11.715	11.715	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	9.678	9.678	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	9.678	9.678	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	9.678	9.678	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	11.715	11.715	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	9.678	9.678	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	9.678	9.678	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	9.678	9.678	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	11.715	11.715	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	9.678	9.678	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	4.84	4.84	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	7.914	7.914	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	8.786	8.786	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	8.786	8.786	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	10.403	10.403	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	10.403	10.403	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	11.86	11.86	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	11.86	11.86	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	20.213	20.213	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	7.563	7.563	0	%100
2	M1	Z	4.366	4.366	0	%100
3	M2	X	9.852	9.852	0	%100
4	M2	Z	5.688	5.688	0	%100
5	M5	X	11.248	11.248	0	%100
6	M5	Z	6.494	6.494	0	%100
7	M6	X	11.248	11.248	0	%100
8	M6	Z	6.494	6.494	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	4.411	4.411	0	%100
12	M6A	Z	2.547	2.547	0	%100
13	M7A	X	4.411	4.411	0	%100
14	M7A	Z	2.547	2.547	0	%100
15	M23A	X	4.411	4.411	0	%100
16	M23A	Z	2.547	2.547	0	%100
17	M24	X	4.411	4.411	0	%100
18	M24	Z	2.547	2.547	0	%100
19	M38	X	7.563	7.563	0	%100
20	M38	Z	4.366	4.366	0	%100
21	M39A	X	17.645	17.645	0	%100
22	M39A	Z	10.187	10.187	0	%100
23	M40	X	17.645	17.645	0	%100
24	M40	Z	10.187	10.187	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	9.852	9.852	0	%100
28	M55	Z	5.688	5.688	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	8.381	8.381	0	%100
32	MP2A	Z	4.839	4.839	0	%100
33	MP3A	X	8.381	8.381	0	%100
34	MP3A	Z	4.839	4.839	0	%100
35	MP4A	X	8.381	8.381	0	%100
36	MP4A	Z	4.839	4.839	0	%100
37	MP1A	X	10.146	10.146	0	%100
38	MP1A	Z	5.858	5.858	0	%100
39	MP3C	X	8.381	8.381	0	%100
40	MP3C	Z	4.839	4.839	0	%100
41	MP4C	X	8.381	8.381	0	%100
42	MP4C	Z	4.839	4.839	0	%100
43	MP5C	X	8.381	8.381	0	%100
44	MP5C	Z	4.839	4.839	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	MP2C	X	10.146	10.146	0	%100
46	MP2C	Z	5.858	5.858	0	%100
47	MP2B	X	8.381	8.381	0	%100
48	MP2B	Z	4.839	4.839	0	%100
49	MP3B	X	8.381	8.381	0	%100
50	MP3B	Z	4.839	4.839	0	%100
51	MP4B	X	8.381	8.381	0	%100
52	MP4B	Z	4.839	4.839	0	%100
53	MP1B	X	10.146	10.146	0	%100
54	MP1B	Z	5.858	5.858	0	%100
55	MP1C	X	8.381	8.381	0	%100
56	MP1C	Z	4.839	4.839	0	%100
57	LIGHT	X	4.192	4.192	0	%100
58	LIGHT	Z	2.42	2.42	0	%100
59	OVP	X	6.854	6.854	0	%100
60	OVP	Z	3.957	3.957	0	%100
61	M58	X	2.536	2.536	0	%100
62	M58	Z	1.464	1.464	0	%100
63	M65	X	2.536	2.536	0	%100
64	M65	Z	1.464	1.464	0	%100
65	M66	X	10.146	10.146	0	%100
66	M66	Z	5.858	5.858	0	%100
67	M67	X	3.003	3.003	0	%100
68	M67	Z	1.734	1.734	0	%100
69	M68	X	12.012	12.012	0	%100
70	M68	Z	6.935	6.935	0	%100
71	M69	X	3.003	3.003	0	%100
72	M69	Z	1.734	1.734	0	%100
73	M78	X	15.094	15.094	0	%100
74	M78	Z	8.714	8.714	0	%100
75	M79	X	7.86	7.86	0	%100
76	M79	Z	4.538	4.538	0	%100
77	M80	X	15.094	15.094	0	%100
78	M80	Z	8.714	8.714	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.455	1.455	0	%100
2	M1	Z	2.521	2.521	0	%100
3	M2	X	1.896	1.896	0	%100
4	M2	Z	3.284	3.284	0	%100
5	M5	X	2.165	2.165	0	%100
6	M5	Z	3.749	3.749	0	%100
7	M6	X	8.659	8.659	0	%100
8	M6	Z	14.998	14.998	0	%100
9	M7	X	2.165	2.165	0	%100
10	M7	Z	3.749	3.749	0	%100
11	M6A	X	7.64	7.64	0	%100
12	M6A	Z	13.233	13.233	0	%100
13	M7A	X	7.64	7.64	0	%100
14	M7A	Z	13.233	13.233	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	5.822	5.822	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	M38	Z	10.084	10.084	0	%100
21	M39A	X	7.64	7.64	0	%100
22	M39A	Z	13.233	13.233	0	%100
23	M40	X	7.64	7.64	0	%100
24	M40	Z	13.233	13.233	0	%100
25	M54	X	1.455	1.455	0	%100
26	M54	Z	2.521	2.521	0	%100
27	M55	X	7.584	7.584	0	%100
28	M55	Z	13.135	13.135	0	%100
29	M56	X	1.896	1.896	0	%100
30	M56	Z	3.284	3.284	0	%100
31	MP2A	X	4.839	4.839	0	%100
32	MP2A	Z	8.381	8.381	0	%100
33	MP3A	X	4.839	4.839	0	%100
34	MP3A	Z	8.381	8.381	0	%100
35	MP4A	X	4.839	4.839	0	%100
36	MP4A	Z	8.381	8.381	0	%100
37	MP1A	X	5.858	5.858	0	%100
38	MP1A	Z	10.146	10.146	0	%100
39	MP3C	X	4.839	4.839	0	%100
40	MP3C	Z	8.381	8.381	0	%100
41	MP4C	X	4.839	4.839	0	%100
42	MP4C	Z	8.381	8.381	0	%100
43	MP5C	X	4.839	4.839	0	%100
44	MP5C	Z	8.381	8.381	0	%100
45	MP2C	X	5.858	5.858	0	%100
46	MP2C	Z	10.146	10.146	0	%100
47	MP2B	X	4.839	4.839	0	%100
48	MP2B	Z	8.381	8.381	0	%100
49	MP3B	X	4.839	4.839	0	%100
50	MP3B	Z	8.381	8.381	0	%100
51	MP4B	X	4.839	4.839	0	%100
52	MP4B	Z	8.381	8.381	0	%100
53	MP1B	X	5.858	5.858	0	%100
54	MP1B	Z	10.146	10.146	0	%100
55	MP1C	X	4.839	4.839	0	%100
56	MP1C	Z	8.381	8.381	0	%100
57	LIGHT	X	2.42	2.42	0	%100
58	LIGHT	Z	4.192	4.192	0	%100
59	OVP	X	3.957	3.957	0	%100
60	OVP	Z	6.854	6.854	0	%100
61	M58	X	4.393	4.393	0	%100
62	M58	Z	7.609	7.609	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	4.393	4.393	0	%100
66	M66	Z	7.609	7.609	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	5.201	5.201	0	%100
70	M68	Z	9.009	9.009	0	%100
71	M69	X	5.201	5.201	0	%100
72	M69	Z	9.009	9.009	0	%100
73	M78	X	10.107	10.107	0	%100
74	M78	Z	17.505	17.505	0	%100
75	M79	X	5.93	5.93	0	%100
76	M79	Z	10.271	10.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
77	M80	X	5.93	5.93	0	%100
78	M80	Z	10.271	10.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	12.989	12.989	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	12.989	12.989	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	20.374	20.374	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	20.374	20.374	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	5.094	5.094	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	5.094	5.094	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	8.733	8.733	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	5.094	5.094	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	5.094	5.094	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	8.733	8.733	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	11.376	11.376	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	11.376	11.376	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	9.678	9.678	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	9.678	9.678	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	9.678	9.678	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	11.715	11.715	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	9.678	9.678	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	9.678	9.678	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	9.678	9.678	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	11.715	11.715	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	9.678	9.678	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	9.678	9.678	0	%100
51	MP4B	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
52	MP4B	Z	9.678	9.678	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	11.715	11.715	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	9.678	9.678	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	4.84	4.84	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	7.914	7.914	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	11.715	11.715	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	2.929	2.929	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	2.929	2.929	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	3.468	3.468	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	3.468	3.468	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	13.87	13.87	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	17.429	17.429	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	17.429	17.429	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	9.076	9.076	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.455	-1.455	0	%100
2	M1	Z	2.521	2.521	0	%100
3	M2	X	-1.896	-1.896	0	%100
4	M2	Z	3.284	3.284	0	%100
5	M5	X	-2.165	-2.165	0	%100
6	M5	Z	3.749	3.749	0	%100
7	M6	X	-2.165	-2.165	0	%100
8	M6	Z	3.749	3.749	0	%100
9	M7	X	-8.659	-8.659	0	%100
10	M7	Z	14.998	14.998	0	%100
11	M6A	X	-7.64	-7.64	0	%100
12	M6A	Z	13.233	13.233	0	%100
13	M7A	X	-7.64	-7.64	0	%100
14	M7A	Z	13.233	13.233	0	%100
15	M23A	X	-7.64	-7.64	0	%100
16	M23A	Z	13.233	13.233	0	%100
17	M24	X	-7.64	-7.64	0	%100
18	M24	Z	13.233	13.233	0	%100
19	M38	X	-1.455	-1.455	0	%100
20	M38	Z	2.521	2.521	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-5.822	-5.822	0	%100
26	M54	Z	10.084	10.084	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	M55	X	-1.896	-1.896	0	%100
28	M55	Z	3.284	3.284	0	%100
29	M56	X	-7.584	-7.584	0	%100
30	M56	Z	13.135	13.135	0	%100
31	MP2A	X	-4.839	-4.839	0	%100
32	MP2A	Z	8.381	8.381	0	%100
33	MP3A	X	-4.839	-4.839	0	%100
34	MP3A	Z	8.381	8.381	0	%100
35	MP4A	X	-4.839	-4.839	0	%100
36	MP4A	Z	8.381	8.381	0	%100
37	MP1A	X	-5.858	-5.858	0	%100
38	MP1A	Z	10.146	10.146	0	%100
39	MP3C	X	-4.839	-4.839	0	%100
40	MP3C	Z	8.381	8.381	0	%100
41	MP4C	X	-4.839	-4.839	0	%100
42	MP4C	Z	8.381	8.381	0	%100
43	MP5C	X	-4.839	-4.839	0	%100
44	MP5C	Z	8.381	8.381	0	%100
45	MP2C	X	-5.858	-5.858	0	%100
46	MP2C	Z	10.146	10.146	0	%100
47	MP2B	X	-4.839	-4.839	0	%100
48	MP2B	Z	8.381	8.381	0	%100
49	MP3B	X	-4.839	-4.839	0	%100
50	MP3B	Z	8.381	8.381	0	%100
51	MP4B	X	-4.839	-4.839	0	%100
52	MP4B	Z	8.381	8.381	0	%100
53	MP1B	X	-5.858	-5.858	0	%100
54	MP1B	Z	10.146	10.146	0	%100
55	MP1C	X	-4.839	-4.839	0	%100
56	MP1C	Z	8.381	8.381	0	%100
57	LIGHT	X	-2.42	-2.42	0	%100
58	LIGHT	Z	4.192	4.192	0	%100
59	OVP	X	-3.957	-3.957	0	%100
60	OVP	Z	6.854	6.854	0	%100
61	M58	X	-4.393	-4.393	0	%100
62	M58	Z	7.609	7.609	0	%100
63	M65	X	-4.393	-4.393	0	%100
64	M65	Z	7.609	7.609	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-5.201	-5.201	0	%100
68	M67	Z	9.009	9.009	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	-5.201	-5.201	0	%100
72	M69	Z	9.009	9.009	0	%100
73	M78	X	-5.93	-5.93	0	%100
74	M78	Z	10.271	10.271	0	%100
75	M79	X	-10.107	-10.107	0	%100
76	M79	Z	17.505	17.505	0	%100
77	M80	X	-5.93	-5.93	0	%100
78	M80	Z	10.271	10.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-7.563	-7.563	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M1	Z	4.366	4.366	0	%100
3	M2	X	-9.852	-9.852	0	%100
4	M2	Z	5.688	5.688	0	%100
5	M5	X	-11.248	-11.248	0	%100
6	M5	Z	6.494	6.494	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-11.248	-11.248	0	%100
10	M7	Z	6.494	6.494	0	%100
11	M6A	X	-4.411	-4.411	0	%100
12	M6A	Z	2.547	2.547	0	%100
13	M7A	X	-4.411	-4.411	0	%100
14	M7A	Z	2.547	2.547	0	%100
15	M23A	X	-17.645	-17.645	0	%100
16	M23A	Z	10.187	10.187	0	%100
17	M24	X	-17.645	-17.645	0	%100
18	M24	Z	10.187	10.187	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-4.411	-4.411	0	%100
22	M39A	Z	2.547	2.547	0	%100
23	M40	X	-4.411	-4.411	0	%100
24	M40	Z	2.547	2.547	0	%100
25	M54	X	-7.563	-7.563	0	%100
26	M54	Z	4.366	4.366	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-9.852	-9.852	0	%100
30	M56	Z	5.688	5.688	0	%100
31	MP2A	X	-8.381	-8.381	0	%100
32	MP2A	Z	4.839	4.839	0	%100
33	MP3A	X	-8.381	-8.381	0	%100
34	MP3A	Z	4.839	4.839	0	%100
35	MP4A	X	-8.381	-8.381	0	%100
36	MP4A	Z	4.839	4.839	0	%100
37	MP1A	X	-10.146	-10.146	0	%100
38	MP1A	Z	5.858	5.858	0	%100
39	MP3C	X	-8.381	-8.381	0	%100
40	MP3C	Z	4.839	4.839	0	%100
41	MP4C	X	-8.381	-8.381	0	%100
42	MP4C	Z	4.839	4.839	0	%100
43	MP5C	X	-8.381	-8.381	0	%100
44	MP5C	Z	4.839	4.839	0	%100
45	MP2C	X	-10.146	-10.146	0	%100
46	MP2C	Z	5.858	5.858	0	%100
47	MP2B	X	-8.381	-8.381	0	%100
48	MP2B	Z	4.839	4.839	0	%100
49	MP3B	X	-8.381	-8.381	0	%100
50	MP3B	Z	4.839	4.839	0	%100
51	MP4B	X	-8.381	-8.381	0	%100
52	MP4B	Z	4.839	4.839	0	%100
53	MP1B	X	-10.146	-10.146	0	%100
54	MP1B	Z	5.858	5.858	0	%100
55	MP1C	X	-8.381	-8.381	0	%100
56	MP1C	Z	4.839	4.839	0	%100
57	LIGHT	X	-4.192	-4.192	0	%100
58	LIGHT	Z	2.42	2.42	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
59	OVP	X	-6.854	-6.854	0	%100
60	OVP	Z	3.957	3.957	0	%100
61	M58	X	-2.536	-2.536	0	%100
62	M58	Z	1.464	1.464	0	%100
63	M65	X	-10.146	-10.146	0	%100
64	M65	Z	5.858	5.858	0	%100
65	M66	X	-2.536	-2.536	0	%100
66	M66	Z	1.464	1.464	0	%100
67	M67	X	-12.012	-12.012	0	%100
68	M67	Z	6.935	6.935	0	%100
69	M68	X	-3.003	-3.003	0	%100
70	M68	Z	1.734	1.734	0	%100
71	M69	X	-3.003	-3.003	0	%100
72	M69	Z	1.734	1.734	0	%100
73	M78	X	-7.86	-7.86	0	%100
74	M78	Z	4.538	4.538	0	%100
75	M79	X	-15.094	-15.094	0	%100
76	M79	Z	8.714	8.714	0	%100
77	M80	X	-15.094	-15.094	0	%100
78	M80	Z	8.714	8.714	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-11.644	-11.644	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-15.167	-15.167	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-17.318	-17.318	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-4.33	-4.33	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-4.33	-4.33	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-15.281	-15.281	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-15.281	-15.281	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-2.911	-2.911	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-15.281	-15.281	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	-15.281	-15.281	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-2.911	-2.911	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-3.792	-3.792	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-3.792	-3.792	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-9.678	-9.678	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-9.678	-9.678	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-9.678	-9.678	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	-11.715	-11.715	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	-9.678	-9.678	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	-9.678	-9.678	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	-9.678	-9.678	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	-11.715	-11.715	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	-9.678	-9.678	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	-9.678	-9.678	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	-9.678	-9.678	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	-11.715	-11.715	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	-9.678	-9.678	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	-4.84	-4.84	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	-7.914	-7.914	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	-8.786	-8.786	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-8.786	-8.786	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-10.403	-10.403	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-10.403	-10.403	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	-11.86	-11.86	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	-11.86	-11.86	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	-20.213	-20.213	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-7.563	-7.563	0	%100
2	M1	Z	-4.366	-4.366	0	%100
3	M2	X	-9.852	-9.852	0	%100
4	M2	Z	-5.688	-5.688	0	%100
5	M5	X	-11.248	-11.248	0	%100
6	M5	Z	-6.494	-6.494	0	%100
7	M6	X	-11.248	-11.248	0	%100
8	M6	Z	-6.494	-6.494	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-4.411	-4.411	0	%100
12	M6A	Z	-2.547	-2.547	0	%100
13	M7A	X	-4.411	-4.411	0	%100
14	M7A	Z	-2.547	-2.547	0	%100
15	M23A	X	-4.411	-4.411	0	%100
16	M23A	Z	-2.547	-2.547	0	%100
17	M24	X	-4.411	-4.411	0	%100
18	M24	Z	-2.547	-2.547	0	%100
19	M38	X	-7.563	-7.563	0	%100
20	M38	Z	-4.366	-4.366	0	%100
21	M39A	X	-17.645	-17.645	0	%100
22	M39A	Z	-10.187	-10.187	0	%100
23	M40	X	-17.645	-17.645	0	%100
24	M40	Z	-10.187	-10.187	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-9.852	-9.852	0	%100
28	M55	Z	-5.688	-5.688	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-8.381	-8.381	0	%100
32	MP2A	Z	-4.839	-4.839	0	%100
33	MP3A	X	-8.381	-8.381	0	%100
34	MP3A	Z	-4.839	-4.839	0	%100
35	MP4A	X	-8.381	-8.381	0	%100
36	MP4A	Z	-4.839	-4.839	0	%100
37	MP1A	X	-10.146	-10.146	0	%100
38	MP1A	Z	-5.858	-5.858	0	%100
39	MP3C	X	-8.381	-8.381	0	%100
40	MP3C	Z	-4.839	-4.839	0	%100
41	MP4C	X	-8.381	-8.381	0	%100
42	MP4C	Z	-4.839	-4.839	0	%100
43	MP5C	X	-8.381	-8.381	0	%100
44	MP5C	Z	-4.839	-4.839	0	%100
45	MP2C	X	-10.146	-10.146	0	%100
46	MP2C	Z	-5.858	-5.858	0	%100
47	MP2B	X	-8.381	-8.381	0	%100
48	MP2B	Z	-4.839	-4.839	0	%100
49	MP3B	X	-8.381	-8.381	0	%100
50	MP3B	Z	-4.839	-4.839	0	%100
51	MP4B	X	-8.381	-8.381	0	%100
52	MP4B	Z	-4.839	-4.839	0	%100
53	MP1B	X	-10.146	-10.146	0	%100
54	MP1B	Z	-5.858	-5.858	0	%100
55	MP1C	X	-8.381	-8.381	0	%100
56	MP1C	Z	-4.839	-4.839	0	%100
57	LIGHT	X	-4.192	-4.192	0	%100
58	LIGHT	Z	-2.42	-2.42	0	%100
59	OVP	X	-6.854	-6.854	0	%100
60	OVP	Z	-3.957	-3.957	0	%100
61	M58	X	-2.536	-2.536	0	%100
62	M58	Z	-1.464	-1.464	0	%100
63	M65	X	-2.536	-2.536	0	%100
64	M65	Z	-1.464	-1.464	0	%100
65	M66	X	-10.146	-10.146	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
66	M66	Z	-5.858	-5.858	0	%100
67	M67	X	-3.003	-3.003	0	%100
68	M67	Z	-1.734	-1.734	0	%100
69	M68	X	-12.012	-12.012	0	%100
70	M68	Z	-6.935	-6.935	0	%100
71	M69	X	-3.003	-3.003	0	%100
72	M69	Z	-1.734	-1.734	0	%100
73	M78	X	-15.094	-15.094	0	%100
74	M78	Z	-8.714	-8.714	0	%100
75	M79	X	-7.86	-7.86	0	%100
76	M79	Z	-4.538	-4.538	0	%100
77	M80	X	-15.094	-15.094	0	%100
78	M80	Z	-8.714	-8.714	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.455	-1.455	0	%100
2	M1	Z	-2.521	-2.521	0	%100
3	M2	X	-1.896	-1.896	0	%100
4	M2	Z	-3.284	-3.284	0	%100
5	M5	X	-2.165	-2.165	0	%100
6	M5	Z	-3.749	-3.749	0	%100
7	M6	X	-8.659	-8.659	0	%100
8	M6	Z	-14.998	-14.998	0	%100
9	M7	X	-2.165	-2.165	0	%100
10	M7	Z	-3.749	-3.749	0	%100
11	M6A	X	-7.64	-7.64	0	%100
12	M6A	Z	-13.233	-13.233	0	%100
13	M7A	X	-7.64	-7.64	0	%100
14	M7A	Z	-13.233	-13.233	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-5.822	-5.822	0	%100
20	M38	Z	-10.084	-10.084	0	%100
21	M39A	X	-7.64	-7.64	0	%100
22	M39A	Z	-13.233	-13.233	0	%100
23	M40	X	-7.64	-7.64	0	%100
24	M40	Z	-13.233	-13.233	0	%100
25	M54	X	-1.455	-1.455	0	%100
26	M54	Z	-2.521	-2.521	0	%100
27	M55	X	-7.584	-7.584	0	%100
28	M55	Z	-13.135	-13.135	0	%100
29	M56	X	-1.896	-1.896	0	%100
30	M56	Z	-3.284	-3.284	0	%100
31	MP2A	X	-4.839	-4.839	0	%100
32	MP2A	Z	-8.381	-8.381	0	%100
33	MP3A	X	-4.839	-4.839	0	%100
34	MP3A	Z	-8.381	-8.381	0	%100
35	MP4A	X	-4.839	-4.839	0	%100
36	MP4A	Z	-8.381	-8.381	0	%100
37	MP1A	X	-5.858	-5.858	0	%100
38	MP1A	Z	-10.146	-10.146	0	%100
39	MP3C	X	-4.839	-4.839	0	%100
40	MP3C	Z	-8.381	-8.381	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
41	MP4C	X	-4.839	-4.839	0	%100
42	MP4C	Z	-8.381	-8.381	0	%100
43	MP5C	X	-4.839	-4.839	0	%100
44	MP5C	Z	-8.381	-8.381	0	%100
45	MP2C	X	-5.858	-5.858	0	%100
46	MP2C	Z	-10.146	-10.146	0	%100
47	MP2B	X	-4.839	-4.839	0	%100
48	MP2B	Z	-8.381	-8.381	0	%100
49	MP3B	X	-4.839	-4.839	0	%100
50	MP3B	Z	-8.381	-8.381	0	%100
51	MP4B	X	-4.839	-4.839	0	%100
52	MP4B	Z	-8.381	-8.381	0	%100
53	MP1B	X	-5.858	-5.858	0	%100
54	MP1B	Z	-10.146	-10.146	0	%100
55	MP1C	X	-4.839	-4.839	0	%100
56	MP1C	Z	-8.381	-8.381	0	%100
57	LIGHT	X	-2.42	-2.42	0	%100
58	LIGHT	Z	-4.192	-4.192	0	%100
59	OVP	X	-3.957	-3.957	0	%100
60	OVP	Z	-6.854	-6.854	0	%100
61	M58	X	-4.393	-4.393	0	%100
62	M58	Z	-7.609	-7.609	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-4.393	-4.393	0	%100
66	M66	Z	-7.609	-7.609	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-5.201	-5.201	0	%100
70	M68	Z	-9.009	-9.009	0	%100
71	M69	X	-5.201	-5.201	0	%100
72	M69	Z	-9.009	-9.009	0	%100
73	M78	X	-10.107	-10.107	0	%100
74	M78	Z	-17.505	-17.505	0	%100
75	M79	X	-5.93	-5.93	0	%100
76	M79	Z	-10.271	-10.271	0	%100
77	M80	X	-5.93	-5.93	0	%100
78	M80	Z	-10.271	-10.271	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	-3.435	-3.435	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-3.435	-3.435	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-5.24	-5.24	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-5.24	-5.24	0	%100
15	M23A	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	M23A	Z	-1.31	-1.31	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	-1.31	-1.31	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	-2.33	-2.33	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	-1.31	-1.31	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	-1.31	-1.31	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	-2.33	-2.33	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	-2.91	-2.91	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	-2.91	-2.91	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	-3.352	-3.352	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-3.352	-3.352	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	-3.352	-3.352	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-3.712	-3.712	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	-3.352	-3.352	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	-3.352	-3.352	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	-3.352	-3.352	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	-3.712	-3.712	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	-3.352	-3.352	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	-3.352	-3.352	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	-3.352	-3.352	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-3.712	-3.712	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	-3.352	-3.352	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	-1.95	-1.95	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	-2.759	-2.759	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	-3.712	-3.712	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	-.928	-.928	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	-.928	-.928	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	-.894	-.894	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	-.894	-.894	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	-3.577	-3.577	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
73	M78	X	0	0	0	%100
74	M78	Z	-4.421	-4.421	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	-4.421	-4.421	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	-2.046	-2.046	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.388	.388	0	%100
2	M1	Z	-.672	-.672	0	%100
3	M2	X	.485	.485	0	%100
4	M2	Z	-.84	-.84	0	%100
5	M5	X	.572	.572	0	%100
6	M5	Z	-.991	-.991	0	%100
7	M6	X	.572	.572	0	%100
8	M6	Z	-.991	-.991	0	%100
9	M7	X	2.29	2.29	0	%100
10	M7	Z	-3.966	-3.966	0	%100
11	M6A	X	1.965	1.965	0	%100
12	M6A	Z	-3.404	-3.404	0	%100
13	M7A	X	1.965	1.965	0	%100
14	M7A	Z	-3.404	-3.404	0	%100
15	M23A	X	1.965	1.965	0	%100
16	M23A	Z	-3.404	-3.404	0	%100
17	M24	X	1.965	1.965	0	%100
18	M24	Z	-3.404	-3.404	0	%100
19	M38	X	.388	.388	0	%100
20	M38	Z	-.672	-.672	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	1.553	1.553	0	%100
26	M54	Z	-2.69	-2.69	0	%100
27	M55	X	.485	.485	0	%100
28	M55	Z	-.84	-.84	0	%100
29	M56	X	1.94	1.94	0	%100
30	M56	Z	-3.36	-3.36	0	%100
31	MP2A	X	1.676	1.676	0	%100
32	MP2A	Z	-2.903	-2.903	0	%100
33	MP3A	X	1.676	1.676	0	%100
34	MP3A	Z	-2.903	-2.903	0	%100
35	MP4A	X	1.676	1.676	0	%100
36	MP4A	Z	-2.903	-2.903	0	%100
37	MP1A	X	1.856	1.856	0	%100
38	MP1A	Z	-3.214	-3.214	0	%100
39	MP3C	X	1.676	1.676	0	%100
40	MP3C	Z	-2.903	-2.903	0	%100
41	MP4C	X	1.676	1.676	0	%100
42	MP4C	Z	-2.903	-2.903	0	%100
43	MP5C	X	1.676	1.676	0	%100
44	MP5C	Z	-2.903	-2.903	0	%100
45	MP2C	X	1.856	1.856	0	%100
46	MP2C	Z	-3.214	-3.214	0	%100
47	MP2B	X	1.676	1.676	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	MP2B	Z	-2.903	-2.903	0	%100
49	MP3B	X	1.676	1.676	0	%100
50	MP3B	Z	-2.903	-2.903	0	%100
51	MP4B	X	1.676	1.676	0	%100
52	MP4B	Z	-2.903	-2.903	0	%100
53	MP1B	X	1.856	1.856	0	%100
54	MP1B	Z	-3.214	-3.214	0	%100
55	MP1C	X	1.676	1.676	0	%100
56	MP1C	Z	-2.903	-2.903	0	%100
57	LIGHT	X	.975	.975	0	%100
58	LIGHT	Z	-1.689	-1.689	0	%100
59	OVP	X	1.38	1.38	0	%100
60	OVP	Z	-2.39	-2.39	0	%100
61	M58	X	1.392	1.392	0	%100
62	M58	Z	-2.411	-2.411	0	%100
63	M65	X	1.392	1.392	0	%100
64	M65	Z	-2.411	-2.411	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	1.341	1.341	0	%100
68	M67	Z	-2.323	-2.323	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	1.341	1.341	0	%100
72	M69	Z	-2.323	-2.323	0	%100
73	M78	X	1.419	1.419	0	%100
74	M78	Z	-2.458	-2.458	0	%100
75	M79	X	2.606	2.606	0	%100
76	M79	Z	-4.514	-4.514	0	%100
77	M80	X	1.419	1.419	0	%100
78	M80	Z	-2.458	-2.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.017	2.017	0	%100
2	M1	Z	-1.165	-1.165	0	%100
3	M2	X	2.52	2.52	0	%100
4	M2	Z	-1.455	-1.455	0	%100
5	M5	X	2.974	2.974	0	%100
6	M5	Z	-1.717	-1.717	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	2.974	2.974	0	%100
10	M7	Z	-1.717	-1.717	0	%100
11	M6A	X	1.135	1.135	0	%100
12	M6A	Z	-.655	-.655	0	%100
13	M7A	X	1.135	1.135	0	%100
14	M7A	Z	-.655	-.655	0	%100
15	M23A	X	4.538	4.538	0	%100
16	M23A	Z	-2.62	-2.62	0	%100
17	M24	X	4.538	4.538	0	%100
18	M24	Z	-2.62	-2.62	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	1.135	1.135	0	%100
22	M39A	Z	-.655	-.655	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M40	X	1.135	1.135	0	%100
24	M40	Z	-.655	-.655	0	%100
25	M54	X	2.017	2.017	0	%100
26	M54	Z	-1.165	-1.165	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	2.52	2.52	0	%100
30	M56	Z	-1.455	-1.455	0	%100
31	MP2A	X	2.903	2.903	0	%100
32	MP2A	Z	-1.676	-1.676	0	%100
33	MP3A	X	2.903	2.903	0	%100
34	MP3A	Z	-1.676	-1.676	0	%100
35	MP4A	X	2.903	2.903	0	%100
36	MP4A	Z	-1.676	-1.676	0	%100
37	MP1A	X	3.214	3.214	0	%100
38	MP1A	Z	-1.856	-1.856	0	%100
39	MP3C	X	2.903	2.903	0	%100
40	MP3C	Z	-1.676	-1.676	0	%100
41	MP4C	X	2.903	2.903	0	%100
42	MP4C	Z	-1.676	-1.676	0	%100
43	MP5C	X	2.903	2.903	0	%100
44	MP5C	Z	-1.676	-1.676	0	%100
45	MP2C	X	3.214	3.214	0	%100
46	MP2C	Z	-1.856	-1.856	0	%100
47	MP2B	X	2.903	2.903	0	%100
48	MP2B	Z	-1.676	-1.676	0	%100
49	MP3B	X	2.903	2.903	0	%100
50	MP3B	Z	-1.676	-1.676	0	%100
51	MP4B	X	2.903	2.903	0	%100
52	MP4B	Z	-1.676	-1.676	0	%100
53	MP1B	X	3.214	3.214	0	%100
54	MP1B	Z	-1.856	-1.856	0	%100
55	MP1C	X	2.903	2.903	0	%100
56	MP1C	Z	-1.676	-1.676	0	%100
57	LIGHT	X	1.689	1.689	0	%100
58	LIGHT	Z	-.975	-.975	0	%100
59	OVP	X	2.39	2.39	0	%100
60	OVP	Z	-1.38	-1.38	0	%100
61	M58	X	.804	.804	0	%100
62	M58	Z	-.464	-.464	0	%100
63	M65	X	3.214	3.214	0	%100
64	M65	Z	-1.856	-1.856	0	%100
65	M66	X	.804	.804	0	%100
66	M66	Z	-.464	-.464	0	%100
67	M67	X	3.097	3.097	0	%100
68	M67	Z	-1.788	-1.788	0	%100
69	M68	X	.774	.774	0	%100
70	M68	Z	-.447	-.447	0	%100
71	M69	X	.774	.774	0	%100
72	M69	Z	-.447	-.447	0	%100
73	M78	X	1.772	1.772	0	%100
74	M78	Z	-1.023	-1.023	0	%100
75	M79	X	3.828	3.828	0	%100
76	M79	Z	-2.21	-2.21	0	%100
77	M80	X	3.828	3.828	0	%100
78	M80	Z	-2.21	-2.21	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.106	3.106	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	3.88	3.88	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	4.579	4.579	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	1.145	1.145	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	1.145	1.145	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	3.93	3.93	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	3.93	3.93	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.777	.777	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	3.93	3.93	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	3.93	3.93	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.777	.777	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	.97	.97	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	.97	.97	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	3.352	3.352	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	3.352	3.352	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	3.352	3.352	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	3.712	3.712	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	3.352	3.352	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	3.352	3.352	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	3.352	3.352	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	3.712	3.712	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	3.352	3.352	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	3.352	3.352	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	3.352	3.352	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	3.712	3.712	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	3.352	3.352	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	1.95	1.95	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	LIGHT	Z	0	0	0	%100
59	OVP	X	2.759	2.759	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	2.784	2.784	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	2.784	2.784	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	2.682	2.682	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	2.682	2.682	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	2.838	2.838	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	2.838	2.838	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	5.212	5.212	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.017	2.017	0	%100
2	M1	Z	1.165	1.165	0	%100
3	M2	X	2.52	2.52	0	%100
4	M2	Z	1.455	1.455	0	%100
5	M5	X	2.974	2.974	0	%100
6	M5	Z	1.717	1.717	0	%100
7	M6	X	2.974	2.974	0	%100
8	M6	Z	1.717	1.717	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	1.135	1.135	0	%100
12	M6A	Z	.655	.655	0	%100
13	M7A	X	1.135	1.135	0	%100
14	M7A	Z	.655	.655	0	%100
15	M23A	X	1.135	1.135	0	%100
16	M23A	Z	.655	.655	0	%100
17	M24	X	1.135	1.135	0	%100
18	M24	Z	.655	.655	0	%100
19	M38	X	2.017	2.017	0	%100
20	M38	Z	1.165	1.165	0	%100
21	M39A	X	4.538	4.538	0	%100
22	M39A	Z	2.62	2.62	0	%100
23	M40	X	4.538	4.538	0	%100
24	M40	Z	2.62	2.62	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	2.52	2.52	0	%100
28	M55	Z	1.455	1.455	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	2.903	2.903	0	%100
32	MP2A	Z	1.676	1.676	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP3A	X	2.903	2.903	0	%100
34	MP3A	Z	1.676	1.676	0	%100
35	MP4A	X	2.903	2.903	0	%100
36	MP4A	Z	1.676	1.676	0	%100
37	MP1A	X	3.214	3.214	0	%100
38	MP1A	Z	1.856	1.856	0	%100
39	MP3C	X	2.903	2.903	0	%100
40	MP3C	Z	1.676	1.676	0	%100
41	MP4C	X	2.903	2.903	0	%100
42	MP4C	Z	1.676	1.676	0	%100
43	MP5C	X	2.903	2.903	0	%100
44	MP5C	Z	1.676	1.676	0	%100
45	MP2C	X	3.214	3.214	0	%100
46	MP2C	Z	1.856	1.856	0	%100
47	MP2B	X	2.903	2.903	0	%100
48	MP2B	Z	1.676	1.676	0	%100
49	MP3B	X	2.903	2.903	0	%100
50	MP3B	Z	1.676	1.676	0	%100
51	MP4B	X	2.903	2.903	0	%100
52	MP4B	Z	1.676	1.676	0	%100
53	MP1B	X	3.214	3.214	0	%100
54	MP1B	Z	1.856	1.856	0	%100
55	MP1C	X	2.903	2.903	0	%100
56	MP1C	Z	1.676	1.676	0	%100
57	LIGHT	X	1.689	1.689	0	%100
58	LIGHT	Z	.975	.975	0	%100
59	OVP	X	2.39	2.39	0	%100
60	OVP	Z	1.38	1.38	0	%100
61	M58	X	.804	.804	0	%100
62	M58	Z	.464	.464	0	%100
63	M65	X	.804	.804	0	%100
64	M65	Z	.464	.464	0	%100
65	M66	X	3.214	3.214	0	%100
66	M66	Z	1.856	1.856	0	%100
67	M67	X	.774	.774	0	%100
68	M67	Z	.447	.447	0	%100
69	M68	X	3.097	3.097	0	%100
70	M68	Z	1.788	1.788	0	%100
71	M69	X	.774	.774	0	%100
72	M69	Z	.447	.447	0	%100
73	M78	X	3.828	3.828	0	%100
74	M78	Z	2.21	2.21	0	%100
75	M79	X	1.772	1.772	0	%100
76	M79	Z	1.023	1.023	0	%100
77	M80	X	3.828	3.828	0	%100
78	M80	Z	2.21	2.21	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.388	.388	0	%100
2	M1	Z	.672	.672	0	%100
3	M2	X	.485	.485	0	%100
4	M2	Z	.84	.84	0	%100
5	M5	X	.572	.572	0	%100
6	M5	Z	.991	.991	0	%100
7	M6	X	2.29	2.29	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M6	Z	3.966	3.966	0	%100
9	M7	X	.572	.572	0	%100
10	M7	Z	.991	.991	0	%100
11	M6A	X	1.965	1.965	0	%100
12	M6A	Z	3.404	3.404	0	%100
13	M7A	X	1.965	1.965	0	%100
14	M7A	Z	3.404	3.404	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	1.553	1.553	0	%100
20	M38	Z	2.69	2.69	0	%100
21	M39A	X	1.965	1.965	0	%100
22	M39A	Z	3.404	3.404	0	%100
23	M40	X	1.965	1.965	0	%100
24	M40	Z	3.404	3.404	0	%100
25	M54	X	.388	.388	0	%100
26	M54	Z	.672	.672	0	%100
27	M55	X	1.94	1.94	0	%100
28	M55	Z	3.36	3.36	0	%100
29	M56	X	.485	.485	0	%100
30	M56	Z	.84	.84	0	%100
31	MP2A	X	1.676	1.676	0	%100
32	MP2A	Z	2.903	2.903	0	%100
33	MP3A	X	1.676	1.676	0	%100
34	MP3A	Z	2.903	2.903	0	%100
35	MP4A	X	1.676	1.676	0	%100
36	MP4A	Z	2.903	2.903	0	%100
37	MP1A	X	1.856	1.856	0	%100
38	MP1A	Z	3.214	3.214	0	%100
39	MP3C	X	1.676	1.676	0	%100
40	MP3C	Z	2.903	2.903	0	%100
41	MP4C	X	1.676	1.676	0	%100
42	MP4C	Z	2.903	2.903	0	%100
43	MP5C	X	1.676	1.676	0	%100
44	MP5C	Z	2.903	2.903	0	%100
45	MP2C	X	1.856	1.856	0	%100
46	MP2C	Z	3.214	3.214	0	%100
47	MP2B	X	1.676	1.676	0	%100
48	MP2B	Z	2.903	2.903	0	%100
49	MP3B	X	1.676	1.676	0	%100
50	MP3B	Z	2.903	2.903	0	%100
51	MP4B	X	1.676	1.676	0	%100
52	MP4B	Z	2.903	2.903	0	%100
53	MP1B	X	1.856	1.856	0	%100
54	MP1B	Z	3.214	3.214	0	%100
55	MP1C	X	1.676	1.676	0	%100
56	MP1C	Z	2.903	2.903	0	%100
57	LIGHT	X	.975	.975	0	%100
58	LIGHT	Z	1.689	1.689	0	%100
59	OVP	X	1.38	1.38	0	%100
60	OVP	Z	2.39	2.39	0	%100
61	M58	X	1.392	1.392	0	%100
62	M58	Z	2.411	2.411	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M66	X	1.392	1.392	0	%100
66	M66	Z	2.411	2.411	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	1.341	1.341	0	%100
70	M68	Z	2.323	2.323	0	%100
71	M69	X	1.341	1.341	0	%100
72	M69	Z	2.323	2.323	0	%100
73	M78	X	2.606	2.606	0	%100
74	M78	Z	4.514	4.514	0	%100
75	M79	X	1.419	1.419	0	%100
76	M79	Z	2.458	2.458	0	%100
77	M80	X	1.419	1.419	0	%100
78	M80	Z	2.458	2.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	3.435	3.435	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	3.435	3.435	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	5.24	5.24	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	5.24	5.24	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	1.31	1.31	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	1.31	1.31	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	2.33	2.33	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	1.31	1.31	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	1.31	1.31	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	2.33	2.33	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	2.91	2.91	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	2.91	2.91	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	3.352	3.352	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	3.352	3.352	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	3.352	3.352	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	3.712	3.712	0	%100
39	MP3C	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	MP3C	Z	3.352	3.352	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	3.352	3.352	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	3.352	3.352	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	3.712	3.712	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	3.352	3.352	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	3.352	3.352	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	3.352	3.352	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	3.712	3.712	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	3.352	3.352	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	1.95	1.95	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	2.759	2.759	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	3.712	3.712	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	.928	.928	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	.928	.928	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	.894	.894	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	.894	.894	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	3.577	3.577	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	4.421	4.421	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	4.421	4.421	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	2.046	2.046	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.388	-.388	0	%100
2	M1	Z	.672	.672	0	%100
3	M2	X	-.485	-.485	0	%100
4	M2	Z	.84	.84	0	%100
5	M5	X	-.572	-.572	0	%100
6	M5	Z	.991	.991	0	%100
7	M6	X	-.572	-.572	0	%100
8	M6	Z	.991	.991	0	%100
9	M7	X	-2.29	-2.29	0	%100
10	M7	Z	3.966	3.966	0	%100
11	M6A	X	-1.965	-1.965	0	%100
12	M6A	Z	3.404	3.404	0	%100
13	M7A	X	-1.965	-1.965	0	%100
14	M7A	Z	3.404	3.404	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
15	M23A	X	-1.965	-1.965	0	%100
16	M23A	Z	3.404	3.404	0	%100
17	M24	X	-1.965	-1.965	0	%100
18	M24	Z	3.404	3.404	0	%100
19	M38	X	-.388	-.388	0	%100
20	M38	Z	.672	.672	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-1.553	-1.553	0	%100
26	M54	Z	2.69	2.69	0	%100
27	M55	X	-.485	-.485	0	%100
28	M55	Z	.84	.84	0	%100
29	M56	X	-1.94	-1.94	0	%100
30	M56	Z	3.36	3.36	0	%100
31	MP2A	X	-1.676	-1.676	0	%100
32	MP2A	Z	2.903	2.903	0	%100
33	MP3A	X	-1.676	-1.676	0	%100
34	MP3A	Z	2.903	2.903	0	%100
35	MP4A	X	-1.676	-1.676	0	%100
36	MP4A	Z	2.903	2.903	0	%100
37	MP1A	X	-1.856	-1.856	0	%100
38	MP1A	Z	3.214	3.214	0	%100
39	MP3C	X	-1.676	-1.676	0	%100
40	MP3C	Z	2.903	2.903	0	%100
41	MP4C	X	-1.676	-1.676	0	%100
42	MP4C	Z	2.903	2.903	0	%100
43	MP5C	X	-1.676	-1.676	0	%100
44	MP5C	Z	2.903	2.903	0	%100
45	MP2C	X	-1.856	-1.856	0	%100
46	MP2C	Z	3.214	3.214	0	%100
47	MP2B	X	-1.676	-1.676	0	%100
48	MP2B	Z	2.903	2.903	0	%100
49	MP3B	X	-1.676	-1.676	0	%100
50	MP3B	Z	2.903	2.903	0	%100
51	MP4B	X	-1.676	-1.676	0	%100
52	MP4B	Z	2.903	2.903	0	%100
53	MP1B	X	-1.856	-1.856	0	%100
54	MP1B	Z	3.214	3.214	0	%100
55	MP1C	X	-1.676	-1.676	0	%100
56	MP1C	Z	2.903	2.903	0	%100
57	LIGHT	X	-.975	-.975	0	%100
58	LIGHT	Z	1.689	1.689	0	%100
59	OVP	X	-1.38	-1.38	0	%100
60	OVP	Z	2.39	2.39	0	%100
61	M58	X	-1.392	-1.392	0	%100
62	M58	Z	2.411	2.411	0	%100
63	M65	X	-1.392	-1.392	0	%100
64	M65	Z	2.411	2.411	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-1.341	-1.341	0	%100
68	M67	Z	2.323	2.323	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	-1.341	-1.341	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
72	M69	Z	2.323	2.323	0	%100
73	M78	X	-1.419	-1.419	0	%100
74	M78	Z	2.458	2.458	0	%100
75	M79	X	-2.606	-2.606	0	%100
76	M79	Z	4.514	4.514	0	%100
77	M80	X	-1.419	-1.419	0	%100
78	M80	Z	2.458	2.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.017	-2.017	0	%100
2	M1	Z	1.165	1.165	0	%100
3	M2	X	-2.52	-2.52	0	%100
4	M2	Z	1.455	1.455	0	%100
5	M5	X	-2.974	-2.974	0	%100
6	M5	Z	1.717	1.717	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-2.974	-2.974	0	%100
10	M7	Z	1.717	1.717	0	%100
11	M6A	X	-1.135	-1.135	0	%100
12	M6A	Z	.655	.655	0	%100
13	M7A	X	-1.135	-1.135	0	%100
14	M7A	Z	.655	.655	0	%100
15	M23A	X	-4.538	-4.538	0	%100
16	M23A	Z	2.62	2.62	0	%100
17	M24	X	-4.538	-4.538	0	%100
18	M24	Z	2.62	2.62	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-1.135	-1.135	0	%100
22	M39A	Z	.655	.655	0	%100
23	M40	X	-1.135	-1.135	0	%100
24	M40	Z	.655	.655	0	%100
25	M54	X	-2.017	-2.017	0	%100
26	M54	Z	1.165	1.165	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-2.52	-2.52	0	%100
30	M56	Z	1.455	1.455	0	%100
31	MP2A	X	-2.903	-2.903	0	%100
32	MP2A	Z	1.676	1.676	0	%100
33	MP3A	X	-2.903	-2.903	0	%100
34	MP3A	Z	1.676	1.676	0	%100
35	MP4A	X	-2.903	-2.903	0	%100
36	MP4A	Z	1.676	1.676	0	%100
37	MP1A	X	-3.214	-3.214	0	%100
38	MP1A	Z	1.856	1.856	0	%100
39	MP3C	X	-2.903	-2.903	0	%100
40	MP3C	Z	1.676	1.676	0	%100
41	MP4C	X	-2.903	-2.903	0	%100
42	MP4C	Z	1.676	1.676	0	%100
43	MP5C	X	-2.903	-2.903	0	%100
44	MP5C	Z	1.676	1.676	0	%100
45	MP2C	X	-3.214	-3.214	0	%100
46	MP2C	Z	1.856	1.856	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	MP2B	X	-2.903	-2.903	0	%100
48	MP2B	Z	1.676	1.676	0	%100
49	MP3B	X	-2.903	-2.903	0	%100
50	MP3B	Z	1.676	1.676	0	%100
51	MP4B	X	-2.903	-2.903	0	%100
52	MP4B	Z	1.676	1.676	0	%100
53	MP1B	X	-3.214	-3.214	0	%100
54	MP1B	Z	1.856	1.856	0	%100
55	MP1C	X	-2.903	-2.903	0	%100
56	MP1C	Z	1.676	1.676	0	%100
57	LIGHT	X	-1.689	-1.689	0	%100
58	LIGHT	Z	.975	.975	0	%100
59	OVP	X	-2.39	-2.39	0	%100
60	OVP	Z	1.38	1.38	0	%100
61	M58	X	-.804	-.804	0	%100
62	M58	Z	.464	.464	0	%100
63	M65	X	-3.214	-3.214	0	%100
64	M65	Z	1.856	1.856	0	%100
65	M66	X	-.804	-.804	0	%100
66	M66	Z	.464	.464	0	%100
67	M67	X	-3.097	-3.097	0	%100
68	M67	Z	1.788	1.788	0	%100
69	M68	X	-.774	-.774	0	%100
70	M68	Z	.447	.447	0	%100
71	M69	X	-.774	-.774	0	%100
72	M69	Z	.447	.447	0	%100
73	M78	X	-1.772	-1.772	0	%100
74	M78	Z	1.023	1.023	0	%100
75	M79	X	-3.828	-3.828	0	%100
76	M79	Z	2.21	2.21	0	%100
77	M80	X	-3.828	-3.828	0	%100
78	M80	Z	2.21	2.21	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.106	-3.106	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-3.88	-3.88	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-4.579	-4.579	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-1.145	-1.145	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-1.145	-1.145	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	-3.93	-3.93	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-3.93	-3.93	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.777	-.777	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-3.93	-3.93	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M39A	Z	0	0	0	%100
23	M40	X	-3.93	-3.93	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-.777	-.777	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-.97	-.97	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-.97	-.97	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-3.352	-3.352	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-3.352	-3.352	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-3.352	-3.352	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	-3.712	-3.712	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	-3.352	-3.352	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	-3.352	-3.352	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	-3.352	-3.352	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	-3.712	-3.712	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	-3.352	-3.352	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	-3.352	-3.352	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	-3.352	-3.352	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	-3.712	-3.712	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	-3.352	-3.352	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	-1.95	-1.95	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	-2.759	-2.759	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	-2.784	-2.784	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-2.784	-2.784	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-2.682	-2.682	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-2.682	-2.682	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	-2.838	-2.838	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	-2.838	-2.838	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	-5.212	-5.212	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.017	-2.017	0	%100
2	M1	Z	-1.165	-1.165	0	%100
3	M2	X	-2.52	-2.52	0	%100
4	M2	Z	-1.455	-1.455	0	%100
5	M5	X	-2.974	-2.974	0	%100
6	M5	Z	-1.717	-1.717	0	%100
7	M6	X	-2.974	-2.974	0	%100
8	M6	Z	-1.717	-1.717	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-1.135	-1.135	0	%100
12	M6A	Z	-.655	-.655	0	%100
13	M7A	X	-1.135	-1.135	0	%100
14	M7A	Z	-.655	-.655	0	%100
15	M23A	X	-1.135	-1.135	0	%100
16	M23A	Z	-.655	-.655	0	%100
17	M24	X	-1.135	-1.135	0	%100
18	M24	Z	-.655	-.655	0	%100
19	M38	X	-2.017	-2.017	0	%100
20	M38	Z	-1.165	-1.165	0	%100
21	M39A	X	-4.538	-4.538	0	%100
22	M39A	Z	-2.62	-2.62	0	%100
23	M40	X	-4.538	-4.538	0	%100
24	M40	Z	-2.62	-2.62	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-2.52	-2.52	0	%100
28	M55	Z	-1.455	-1.455	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-2.903	-2.903	0	%100
32	MP2A	Z	-1.676	-1.676	0	%100
33	MP3A	X	-2.903	-2.903	0	%100
34	MP3A	Z	-1.676	-1.676	0	%100
35	MP4A	X	-2.903	-2.903	0	%100
36	MP4A	Z	-1.676	-1.676	0	%100
37	MP1A	X	-3.214	-3.214	0	%100
38	MP1A	Z	-1.856	-1.856	0	%100
39	MP3C	X	-2.903	-2.903	0	%100
40	MP3C	Z	-1.676	-1.676	0	%100
41	MP4C	X	-2.903	-2.903	0	%100
42	MP4C	Z	-1.676	-1.676	0	%100
43	MP5C	X	-2.903	-2.903	0	%100
44	MP5C	Z	-1.676	-1.676	0	%100
45	MP2C	X	-3.214	-3.214	0	%100
46	MP2C	Z	-1.856	-1.856	0	%100
47	MP2B	X	-2.903	-2.903	0	%100
48	MP2B	Z	-1.676	-1.676	0	%100
49	MP3B	X	-2.903	-2.903	0	%100
50	MP3B	Z	-1.676	-1.676	0	%100
51	MP4B	X	-2.903	-2.903	0	%100
52	MP4B	Z	-1.676	-1.676	0	%100
53	MP1B	X	-3.214	-3.214	0	%100
54	MP1B	Z	-1.856	-1.856	0	%100
55	MP1C	X	-2.903	-2.903	0	%100
56	MP1C	Z	-1.676	-1.676	0	%100
57	LIGHT	X	-1.689	-1.689	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	LIGHT	Z	-.975	-.975	0	%100
59	OVP	X	-2.39	-2.39	0	%100
60	OVP	Z	-1.38	-1.38	0	%100
61	M58	X	-.804	-.804	0	%100
62	M58	Z	-.464	-.464	0	%100
63	M65	X	-.804	-.804	0	%100
64	M65	Z	-.464	-.464	0	%100
65	M66	X	-3.214	-3.214	0	%100
66	M66	Z	-1.856	-1.856	0	%100
67	M67	X	-.774	-.774	0	%100
68	M67	Z	-.447	-.447	0	%100
69	M68	X	-3.097	-3.097	0	%100
70	M68	Z	-1.788	-1.788	0	%100
71	M69	X	-.774	-.774	0	%100
72	M69	Z	-.447	-.447	0	%100
73	M78	X	-3.828	-3.828	0	%100
74	M78	Z	-2.21	-2.21	0	%100
75	M79	X	-1.772	-1.772	0	%100
76	M79	Z	-1.023	-1.023	0	%100
77	M80	X	-3.828	-3.828	0	%100
78	M80	Z	-2.21	-2.21	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.388	-.388	0	%100
2	M1	Z	-.672	-.672	0	%100
3	M2	X	-.485	-.485	0	%100
4	M2	Z	-.84	-.84	0	%100
5	M5	X	-.572	-.572	0	%100
6	M5	Z	-.991	-.991	0	%100
7	M6	X	-2.29	-2.29	0	%100
8	M6	Z	-3.966	-3.966	0	%100
9	M7	X	-.572	-.572	0	%100
10	M7	Z	-.991	-.991	0	%100
11	M6A	X	-1.965	-1.965	0	%100
12	M6A	Z	-3.404	-3.404	0	%100
13	M7A	X	-1.965	-1.965	0	%100
14	M7A	Z	-3.404	-3.404	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-1.553	-1.553	0	%100
20	M38	Z	-2.69	-2.69	0	%100
21	M39A	X	-1.965	-1.965	0	%100
22	M39A	Z	-3.404	-3.404	0	%100
23	M40	X	-1.965	-1.965	0	%100
24	M40	Z	-3.404	-3.404	0	%100
25	M54	X	-.388	-.388	0	%100
26	M54	Z	-.672	-.672	0	%100
27	M55	X	-1.94	-1.94	0	%100
28	M55	Z	-3.36	-3.36	0	%100
29	M56	X	-.485	-.485	0	%100
30	M56	Z	-.84	-.84	0	%100
31	MP2A	X	-1.676	-1.676	0	%100
32	MP2A	Z	-2.903	-2.903	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP3A	X	-1.676	-1.676	0	%100
34	MP3A	Z	-2.903	-2.903	0	%100
35	MP4A	X	-1.676	-1.676	0	%100
36	MP4A	Z	-2.903	-2.903	0	%100
37	MP1A	X	-1.856	-1.856	0	%100
38	MP1A	Z	-3.214	-3.214	0	%100
39	MP3C	X	-1.676	-1.676	0	%100
40	MP3C	Z	-2.903	-2.903	0	%100
41	MP4C	X	-1.676	-1.676	0	%100
42	MP4C	Z	-2.903	-2.903	0	%100
43	MP5C	X	-1.676	-1.676	0	%100
44	MP5C	Z	-2.903	-2.903	0	%100
45	MP2C	X	-1.856	-1.856	0	%100
46	MP2C	Z	-3.214	-3.214	0	%100
47	MP2B	X	-1.676	-1.676	0	%100
48	MP2B	Z	-2.903	-2.903	0	%100
49	MP3B	X	-1.676	-1.676	0	%100
50	MP3B	Z	-2.903	-2.903	0	%100
51	MP4B	X	-1.676	-1.676	0	%100
52	MP4B	Z	-2.903	-2.903	0	%100
53	MP1B	X	-1.856	-1.856	0	%100
54	MP1B	Z	-3.214	-3.214	0	%100
55	MP1C	X	-1.676	-1.676	0	%100
56	MP1C	Z	-2.903	-2.903	0	%100
57	LIGHT	X	-.975	-.975	0	%100
58	LIGHT	Z	-1.689	-1.689	0	%100
59	OVP	X	-1.38	-1.38	0	%100
60	OVP	Z	-2.39	-2.39	0	%100
61	M58	X	-1.392	-1.392	0	%100
62	M58	Z	-2.411	-2.411	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-1.392	-1.392	0	%100
66	M66	Z	-2.411	-2.411	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-1.341	-1.341	0	%100
70	M68	Z	-2.323	-2.323	0	%100
71	M69	X	-1.341	-1.341	0	%100
72	M69	Z	-2.323	-2.323	0	%100
73	M78	X	-2.606	-2.606	0	%100
74	M78	Z	-4.514	-4.514	0	%100
75	M79	X	-1.419	-1.419	0	%100
76	M79	Z	-2.458	-2.458	0	%100
77	M80	X	-1.419	-1.419	0	%100
78	M80	Z	-2.458	-2.458	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M6	Z	-.825	-.825	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	-.825	-.825	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	-1.295	-1.295	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	-1.295	-1.295	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	-.324	-.324	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	-.324	-.324	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	-.555	-.555	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	-.324	-.324	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	-.324	-.324	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	-.555	-.555	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	-.723	-.723	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	-.723	-.723	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	-.615	-.615	0	%100
33	MP3A	X	0	0	0	%100
34	MP3A	Z	-.615	-.615	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	-.615	-.615	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-.745	-.745	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	-.615	-.615	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	-.615	-.615	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	-.615	-.615	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	-.745	-.745	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	-.615	-.615	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	-.615	-.615	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	-.615	-.615	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	-.745	-.745	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	-.615	-.615	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	-.308	-.308	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	-.503	-.503	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	-.745	-.745	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	-.186	-.186	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M66	X	0	0	0	%100
66	M66	Z	-.186	-.186	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	-.22	-.22	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	-.22	-.22	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	-.882	-.882	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	-1.108	-1.108	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	-1.108	-1.108	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	-.577	-.577	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.093	.093	0	%100
2	M1	Z	-.16	-.16	0	%100
3	M2	X	.12	.12	0	%100
4	M2	Z	-.209	-.209	0	%100
5	M5	X	.138	.138	0	%100
6	M5	Z	-.238	-.238	0	%100
7	M6	X	.138	.138	0	%100
8	M6	Z	-.238	-.238	0	%100
9	M7	X	.55	.55	0	%100
10	M7	Z	-.953	-.953	0	%100
11	M6A	X	.486	.486	0	%100
12	M6A	Z	-.841	-.841	0	%100
13	M7A	X	.486	.486	0	%100
14	M7A	Z	-.841	-.841	0	%100
15	M23A	X	.486	.486	0	%100
16	M23A	Z	-.841	-.841	0	%100
17	M24	X	.486	.486	0	%100
18	M24	Z	-.841	-.841	0	%100
19	M38	X	.093	.093	0	%100
20	M38	Z	-.16	-.16	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.37	.37	0	%100
26	M54	Z	-.641	-.641	0	%100
27	M55	X	.12	.12	0	%100
28	M55	Z	-.209	-.209	0	%100
29	M56	X	.482	.482	0	%100
30	M56	Z	-.835	-.835	0	%100
31	MP2A	X	.308	.308	0	%100
32	MP2A	Z	-.533	-.533	0	%100
33	MP3A	X	.308	.308	0	%100
34	MP3A	Z	-.533	-.533	0	%100
35	MP4A	X	.308	.308	0	%100
36	MP4A	Z	-.533	-.533	0	%100
37	MP1A	X	.372	.372	0	%100
38	MP1A	Z	-.645	-.645	0	%100
39	MP3C	X	.308	.308	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	MP3C	Z	-.533	-.533	0	%100
41	MP4C	X	.308	.308	0	%100
42	MP4C	Z	-.533	-.533	0	%100
43	MP5C	X	.308	.308	0	%100
44	MP5C	Z	-.533	-.533	0	%100
45	MP2C	X	.372	.372	0	%100
46	MP2C	Z	-.645	-.645	0	%100
47	MP2B	X	.308	.308	0	%100
48	MP2B	Z	-.533	-.533	0	%100
49	MP3B	X	.308	.308	0	%100
50	MP3B	Z	-.533	-.533	0	%100
51	MP4B	X	.308	.308	0	%100
52	MP4B	Z	-.533	-.533	0	%100
53	MP1B	X	.372	.372	0	%100
54	MP1B	Z	-.645	-.645	0	%100
55	MP1C	X	.308	.308	0	%100
56	MP1C	Z	-.533	-.533	0	%100
57	LIGHT	X	.154	.154	0	%100
58	LIGHT	Z	-.266	-.266	0	%100
59	OVP	X	.251	.251	0	%100
60	OVP	Z	-.436	-.436	0	%100
61	M58	X	.279	.279	0	%100
62	M58	Z	-.484	-.484	0	%100
63	M65	X	.279	.279	0	%100
64	M65	Z	-.484	-.484	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	.331	.331	0	%100
68	M67	Z	-.573	-.573	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	.331	.331	0	%100
72	M69	Z	-.573	-.573	0	%100
73	M78	X	.377	.377	0	%100
74	M78	Z	-.653	-.653	0	%100
75	M79	X	.642	.642	0	%100
76	M79	Z	-1.113	-1.113	0	%100
77	M80	X	.377	.377	0	%100
78	M80	Z	-.653	-.653	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.481	.481	0	%100
2	M1	Z	-.278	-.278	0	%100
3	M2	X	.626	.626	0	%100
4	M2	Z	-.361	-.361	0	%100
5	M5	X	.715	.715	0	%100
6	M5	Z	-.413	-.413	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.715	.715	0	%100
10	M7	Z	-.413	-.413	0	%100
11	M6A	X	.28	.28	0	%100
12	M6A	Z	-.162	-.162	0	%100
13	M7A	X	.28	.28	0	%100
14	M7A	Z	-.162	-.162	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
15	M23A	X	1.121	1.121	0	%100
16	M23A	Z	-.647	-.647	0	%100
17	M24	X	1.121	1.121	0	%100
18	M24	Z	-.647	-.647	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	.28	.28	0	%100
22	M39A	Z	-.162	-.162	0	%100
23	M40	X	.28	.28	0	%100
24	M40	Z	-.162	-.162	0	%100
25	M54	X	.481	.481	0	%100
26	M54	Z	-.278	-.278	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	.626	.626	0	%100
30	M56	Z	-.361	-.361	0	%100
31	MP2A	X	.533	.533	0	%100
32	MP2A	Z	-.308	-.308	0	%100
33	MP3A	X	.533	.533	0	%100
34	MP3A	Z	-.308	-.308	0	%100
35	MP4A	X	.533	.533	0	%100
36	MP4A	Z	-.308	-.308	0	%100
37	MP1A	X	.645	.645	0	%100
38	MP1A	Z	-.372	-.372	0	%100
39	MP3C	X	.533	.533	0	%100
40	MP3C	Z	-.308	-.308	0	%100
41	MP4C	X	.533	.533	0	%100
42	MP4C	Z	-.308	-.308	0	%100
43	MP5C	X	.533	.533	0	%100
44	MP5C	Z	-.308	-.308	0	%100
45	MP2C	X	.645	.645	0	%100
46	MP2C	Z	-.372	-.372	0	%100
47	MP2B	X	.533	.533	0	%100
48	MP2B	Z	-.308	-.308	0	%100
49	MP3B	X	.533	.533	0	%100
50	MP3B	Z	-.308	-.308	0	%100
51	MP4B	X	.533	.533	0	%100
52	MP4B	Z	-.308	-.308	0	%100
53	MP1B	X	.645	.645	0	%100
54	MP1B	Z	-.372	-.372	0	%100
55	MP1C	X	.533	.533	0	%100
56	MP1C	Z	-.308	-.308	0	%100
57	LIGHT	X	.266	.266	0	%100
58	LIGHT	Z	-.154	-.154	0	%100
59	OVP	X	.436	.436	0	%100
60	OVP	Z	-.251	-.251	0	%100
61	M58	X	.161	.161	0	%100
62	M58	Z	-.093	-.093	0	%100
63	M65	X	.645	.645	0	%100
64	M65	Z	-.372	-.372	0	%100
65	M66	X	.161	.161	0	%100
66	M66	Z	-.093	-.093	0	%100
67	M67	X	.763	.763	0	%100
68	M67	Z	-.441	-.441	0	%100
69	M68	X	.191	.191	0	%100
70	M68	Z	-.11	-.11	0	%100
71	M69	X	.191	.191	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
72	M69	Z	-.11	-.11	0	%100
73	M78	X	.5	.5	0	%100
74	M78	Z	-.288	-.288	0	%100
75	M79	X	.959	.959	0	%100
76	M79	Z	-.554	-.554	0	%100
77	M80	X	.959	.959	0	%100
78	M80	Z	-.554	-.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.74	.74	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.964	.964	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	1.101	1.101	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	.275	.275	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	.275	.275	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100
15	M23A	X	.971	.971	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	.971	.971	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.185	.185	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	.971	.971	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	.971	.971	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	.185	.185	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	.241	.241	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	.241	.241	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	.615	.615	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	.615	.615	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	.615	.615	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	.745	.745	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	.615	.615	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	.615	.615	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	.615	.615	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	.745	.745	0	%100
46	MP2C	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	MP2B	X	.615	.615	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	.615	.615	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	.615	.615	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	.745	.745	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	.615	.615	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	.308	.308	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	.503	.503	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	.558	.558	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	.558	.558	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	.661	.661	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	.661	.661	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	0	0	0	%100
73	M78	X	.754	.754	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	.754	.754	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	1.285	1.285	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.481	.481	0	%100
2	M1	Z	.278	.278	0	%100
3	M2	X	.626	.626	0	%100
4	M2	Z	.361	.361	0	%100
5	M5	X	.715	.715	0	%100
6	M5	Z	.413	.413	0	%100
7	M6	X	.715	.715	0	%100
8	M6	Z	.413	.413	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	.28	.28	0	%100
12	M6A	Z	.162	.162	0	%100
13	M7A	X	.28	.28	0	%100
14	M7A	Z	.162	.162	0	%100
15	M23A	X	.28	.28	0	%100
16	M23A	Z	.162	.162	0	%100
17	M24	X	.28	.28	0	%100
18	M24	Z	.162	.162	0	%100
19	M38	X	.481	.481	0	%100
20	M38	Z	.278	.278	0	%100
21	M39A	X	1.121	1.121	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M39A	Z	.647	.647	0	%100
23	M40	X	1.121	1.121	0	%100
24	M40	Z	.647	.647	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	.626	.626	0	%100
28	M55	Z	.361	.361	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	.533	.533	0	%100
32	MP2A	Z	.308	.308	0	%100
33	MP3A	X	.533	.533	0	%100
34	MP3A	Z	.308	.308	0	%100
35	MP4A	X	.533	.533	0	%100
36	MP4A	Z	.308	.308	0	%100
37	MP1A	X	.645	.645	0	%100
38	MP1A	Z	.372	.372	0	%100
39	MP3C	X	.533	.533	0	%100
40	MP3C	Z	.308	.308	0	%100
41	MP4C	X	.533	.533	0	%100
42	MP4C	Z	.308	.308	0	%100
43	MP5C	X	.533	.533	0	%100
44	MP5C	Z	.308	.308	0	%100
45	MP2C	X	.645	.645	0	%100
46	MP2C	Z	.372	.372	0	%100
47	MP2B	X	.533	.533	0	%100
48	MP2B	Z	.308	.308	0	%100
49	MP3B	X	.533	.533	0	%100
50	MP3B	Z	.308	.308	0	%100
51	MP4B	X	.533	.533	0	%100
52	MP4B	Z	.308	.308	0	%100
53	MP1B	X	.645	.645	0	%100
54	MP1B	Z	.372	.372	0	%100
55	MP1C	X	.533	.533	0	%100
56	MP1C	Z	.308	.308	0	%100
57	LIGHT	X	.266	.266	0	%100
58	LIGHT	Z	.154	.154	0	%100
59	OVP	X	.436	.436	0	%100
60	OVP	Z	.251	.251	0	%100
61	M58	X	.161	.161	0	%100
62	M58	Z	.093	.093	0	%100
63	M65	X	.161	.161	0	%100
64	M65	Z	.093	.093	0	%100
65	M66	X	.645	.645	0	%100
66	M66	Z	.372	.372	0	%100
67	M67	X	.191	.191	0	%100
68	M67	Z	.11	.11	0	%100
69	M68	X	.763	.763	0	%100
70	M68	Z	.441	.441	0	%100
71	M69	X	.191	.191	0	%100
72	M69	Z	.11	.11	0	%100
73	M78	X	.959	.959	0	%100
74	M78	Z	.554	.554	0	%100
75	M79	X	.5	.5	0	%100
76	M79	Z	.288	.288	0	%100
77	M80	X	.959	.959	0	%100
78	M80	Z	.554	.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.093	.093	0	%100
2	M1	Z	.16	.16	0	%100
3	M2	X	.12	.12	0	%100
4	M2	Z	.209	.209	0	%100
5	M5	X	.138	.138	0	%100
6	M5	Z	.238	.238	0	%100
7	M6	X	.55	.55	0	%100
8	M6	Z	.953	.953	0	%100
9	M7	X	.138	.138	0	%100
10	M7	Z	.238	.238	0	%100
11	M6A	X	.486	.486	0	%100
12	M6A	Z	.841	.841	0	%100
13	M7A	X	.486	.486	0	%100
14	M7A	Z	.841	.841	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	.37	.37	0	%100
20	M38	Z	.641	.641	0	%100
21	M39A	X	.486	.486	0	%100
22	M39A	Z	.841	.841	0	%100
23	M40	X	.486	.486	0	%100
24	M40	Z	.841	.841	0	%100
25	M54	X	.093	.093	0	%100
26	M54	Z	.16	.16	0	%100
27	M55	X	.482	.482	0	%100
28	M55	Z	.835	.835	0	%100
29	M56	X	.12	.12	0	%100
30	M56	Z	.209	.209	0	%100
31	MP2A	X	.308	.308	0	%100
32	MP2A	Z	.533	.533	0	%100
33	MP3A	X	.308	.308	0	%100
34	MP3A	Z	.533	.533	0	%100
35	MP4A	X	.308	.308	0	%100
36	MP4A	Z	.533	.533	0	%100
37	MP1A	X	.372	.372	0	%100
38	MP1A	Z	.645	.645	0	%100
39	MP3C	X	.308	.308	0	%100
40	MP3C	Z	.533	.533	0	%100
41	MP4C	X	.308	.308	0	%100
42	MP4C	Z	.533	.533	0	%100
43	MP5C	X	.308	.308	0	%100
44	MP5C	Z	.533	.533	0	%100
45	MP2C	X	.372	.372	0	%100
46	MP2C	Z	.645	.645	0	%100
47	MP2B	X	.308	.308	0	%100
48	MP2B	Z	.533	.533	0	%100
49	MP3B	X	.308	.308	0	%100
50	MP3B	Z	.533	.533	0	%100
51	MP4B	X	.308	.308	0	%100
52	MP4B	Z	.533	.533	0	%100
53	MP1B	X	.372	.372	0	%100
54	MP1B	Z	.645	.645	0	%100
55	MP1C	X	.308	.308	0	%100
56	MP1C	Z	.533	.533	0	%100
57	LIGHT	X	.154	.154	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	LIGHT	Z	.266	.266	0	%100
59	OVP	X	.251	.251	0	%100
60	OVP	Z	.436	.436	0	%100
61	M58	X	.279	.279	0	%100
62	M58	Z	.484	.484	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	.279	.279	0	%100
66	M66	Z	.484	.484	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	.331	.331	0	%100
70	M68	Z	.573	.573	0	%100
71	M69	X	.331	.331	0	%100
72	M69	Z	.573	.573	0	%100
73	M78	X	.642	.642	0	%100
74	M78	Z	1.113	1.113	0	%100
75	M79	X	.377	.377	0	%100
76	M79	Z	.653	.653	0	%100
77	M80	X	.377	.377	0	%100
78	M80	Z	.653	.653	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	0	0	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	.825	.825	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	.825	.825	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	1.295	1.295	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	1.295	1.295	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	.324	.324	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	.324	.324	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	.555	.555	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	.324	.324	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	.324	.324	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	.555	.555	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	.723	.723	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	.723	.723	0	%100
31	MP2A	X	0	0	0	%100
32	MP2A	Z	.615	.615	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
33	MP3A	X	0	0	0	%100
34	MP3A	Z	.615	.615	0	%100
35	MP4A	X	0	0	0	%100
36	MP4A	Z	.615	.615	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	.745	.745	0	%100
39	MP3C	X	0	0	0	%100
40	MP3C	Z	.615	.615	0	%100
41	MP4C	X	0	0	0	%100
42	MP4C	Z	.615	.615	0	%100
43	MP5C	X	0	0	0	%100
44	MP5C	Z	.615	.615	0	%100
45	MP2C	X	0	0	0	%100
46	MP2C	Z	.745	.745	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	.615	.615	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	.615	.615	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	.615	.615	0	%100
53	MP1B	X	0	0	0	%100
54	MP1B	Z	.745	.745	0	%100
55	MP1C	X	0	0	0	%100
56	MP1C	Z	.615	.615	0	%100
57	LIGHT	X	0	0	0	%100
58	LIGHT	Z	.308	.308	0	%100
59	OVP	X	0	0	0	%100
60	OVP	Z	.503	.503	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	.745	.745	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	.186	.186	0	%100
65	M66	X	0	0	0	%100
66	M66	Z	.186	.186	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	.22	.22	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	.22	.22	0	%100
71	M69	X	0	0	0	%100
72	M69	Z	.882	.882	0	%100
73	M78	X	0	0	0	%100
74	M78	Z	1.108	1.108	0	%100
75	M79	X	0	0	0	%100
76	M79	Z	1.108	1.108	0	%100
77	M80	X	0	0	0	%100
78	M80	Z	.577	.577	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.093	-.093	0	%100
2	M1	Z	.16	.16	0	%100
3	M2	X	-.12	-.12	0	%100
4	M2	Z	.209	.209	0	%100
5	M5	X	-.138	-.138	0	%100
6	M5	Z	.238	.238	0	%100
7	M6	X	-.138	-.138	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
8	M6	Z	.238	.238	0	%100
9	M7	X	-.55	-.55	0	%100
10	M7	Z	.953	.953	0	%100
11	M6A	X	-.486	-.486	0	%100
12	M6A	Z	.841	.841	0	%100
13	M7A	X	-.486	-.486	0	%100
14	M7A	Z	.841	.841	0	%100
15	M23A	X	-.486	-.486	0	%100
16	M23A	Z	.841	.841	0	%100
17	M24	X	-.486	-.486	0	%100
18	M24	Z	.841	.841	0	%100
19	M38	X	-.093	-.093	0	%100
20	M38	Z	.16	.16	0	%100
21	M39A	X	0	0	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	0	0	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-.37	-.37	0	%100
26	M54	Z	.641	.641	0	%100
27	M55	X	-.12	-.12	0	%100
28	M55	Z	.209	.209	0	%100
29	M56	X	-.482	-.482	0	%100
30	M56	Z	.835	.835	0	%100
31	MP2A	X	-.308	-.308	0	%100
32	MP2A	Z	.533	.533	0	%100
33	MP3A	X	-.308	-.308	0	%100
34	MP3A	Z	.533	.533	0	%100
35	MP4A	X	-.308	-.308	0	%100
36	MP4A	Z	.533	.533	0	%100
37	MP1A	X	-.372	-.372	0	%100
38	MP1A	Z	.645	.645	0	%100
39	MP3C	X	-.308	-.308	0	%100
40	MP3C	Z	.533	.533	0	%100
41	MP4C	X	-.308	-.308	0	%100
42	MP4C	Z	.533	.533	0	%100
43	MP5C	X	-.308	-.308	0	%100
44	MP5C	Z	.533	.533	0	%100
45	MP2C	X	-.372	-.372	0	%100
46	MP2C	Z	.645	.645	0	%100
47	MP2B	X	-.308	-.308	0	%100
48	MP2B	Z	.533	.533	0	%100
49	MP3B	X	-.308	-.308	0	%100
50	MP3B	Z	.533	.533	0	%100
51	MP4B	X	-.308	-.308	0	%100
52	MP4B	Z	.533	.533	0	%100
53	MP1B	X	-.372	-.372	0	%100
54	MP1B	Z	.645	.645	0	%100
55	MP1C	X	-.308	-.308	0	%100
56	MP1C	Z	.533	.533	0	%100
57	LIGHT	X	-.154	-.154	0	%100
58	LIGHT	Z	.266	.266	0	%100
59	OVP	X	-.251	-.251	0	%100
60	OVP	Z	.436	.436	0	%100
61	M58	X	-.279	-.279	0	%100
62	M58	Z	.484	.484	0	%100
63	M65	X	-.279	-.279	0	%100
64	M65	Z	.484	.484	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	M66	X	0	0	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-.331	-.331	0	%100
68	M67	Z	.573	.573	0	%100
69	M68	X	0	0	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	-.331	-.331	0	%100
72	M69	Z	.573	.573	0	%100
73	M78	X	-.377	-.377	0	%100
74	M78	Z	.653	.653	0	%100
75	M79	X	-.642	-.642	0	%100
76	M79	Z	1.113	1.113	0	%100
77	M80	X	-.377	-.377	0	%100
78	M80	Z	.653	.653	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.481	-.481	0	%100
2	M1	Z	.278	.278	0	%100
3	M2	X	-.626	-.626	0	%100
4	M2	Z	.361	.361	0	%100
5	M5	X	-.715	-.715	0	%100
6	M5	Z	.413	.413	0	%100
7	M6	X	0	0	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.715	-.715	0	%100
10	M7	Z	.413	.413	0	%100
11	M6A	X	-.28	-.28	0	%100
12	M6A	Z	.162	.162	0	%100
13	M7A	X	-.28	-.28	0	%100
14	M7A	Z	.162	.162	0	%100
15	M23A	X	-1.121	-1.121	0	%100
16	M23A	Z	.647	.647	0	%100
17	M24	X	-1.121	-1.121	0	%100
18	M24	Z	.647	.647	0	%100
19	M38	X	0	0	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-.28	-.28	0	%100
22	M39A	Z	.162	.162	0	%100
23	M40	X	-.28	-.28	0	%100
24	M40	Z	.162	.162	0	%100
25	M54	X	-.481	-.481	0	%100
26	M54	Z	.278	.278	0	%100
27	M55	X	0	0	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-.626	-.626	0	%100
30	M56	Z	.361	.361	0	%100
31	MP2A	X	-.533	-.533	0	%100
32	MP2A	Z	.308	.308	0	%100
33	MP3A	X	-.533	-.533	0	%100
34	MP3A	Z	.308	.308	0	%100
35	MP4A	X	-.533	-.533	0	%100
36	MP4A	Z	.308	.308	0	%100
37	MP1A	X	-.645	-.645	0	%100
38	MP1A	Z	.372	.372	0	%100
39	MP3C	X	-.533	-.533	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
40	MP3C	Z	.308	.308	0	%100
41	MP4C	X	-.533	-.533	0	%100
42	MP4C	Z	.308	.308	0	%100
43	MP5C	X	-.533	-.533	0	%100
44	MP5C	Z	.308	.308	0	%100
45	MP2C	X	-.645	-.645	0	%100
46	MP2C	Z	.372	.372	0	%100
47	MP2B	X	-.533	-.533	0	%100
48	MP2B	Z	.308	.308	0	%100
49	MP3B	X	-.533	-.533	0	%100
50	MP3B	Z	.308	.308	0	%100
51	MP4B	X	-.533	-.533	0	%100
52	MP4B	Z	.308	.308	0	%100
53	MP1B	X	-.645	-.645	0	%100
54	MP1B	Z	.372	.372	0	%100
55	MP1C	X	-.533	-.533	0	%100
56	MP1C	Z	.308	.308	0	%100
57	LIGHT	X	-.266	-.266	0	%100
58	LIGHT	Z	.154	.154	0	%100
59	OVP	X	-.436	-.436	0	%100
60	OVP	Z	.251	.251	0	%100
61	M58	X	-.161	-.161	0	%100
62	M58	Z	.093	.093	0	%100
63	M65	X	-.645	-.645	0	%100
64	M65	Z	.372	.372	0	%100
65	M66	X	-.161	-.161	0	%100
66	M66	Z	.093	.093	0	%100
67	M67	X	-.763	-.763	0	%100
68	M67	Z	.441	.441	0	%100
69	M68	X	-.191	-.191	0	%100
70	M68	Z	.11	.11	0	%100
71	M69	X	-.191	-.191	0	%100
72	M69	Z	.11	.11	0	%100
73	M78	X	-.5	-.5	0	%100
74	M78	Z	.288	.288	0	%100
75	M79	X	-.959	-.959	0	%100
76	M79	Z	.554	.554	0	%100
77	M80	X	-.959	-.959	0	%100
78	M80	Z	.554	.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.74	-.74	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.964	-.964	0	%100
4	M2	Z	0	0	0	%100
5	M5	X	-1.101	-1.101	0	%100
6	M5	Z	0	0	0	%100
7	M6	X	-.275	-.275	0	%100
8	M6	Z	0	0	0	%100
9	M7	X	-.275	-.275	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	0	0	0	%100
12	M6A	Z	0	0	0	%100
13	M7A	X	0	0	0	%100
14	M7A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
15	M23A	X	-.971	-.971	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	-.971	-.971	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.185	-.185	0	%100
20	M38	Z	0	0	0	%100
21	M39A	X	-.971	-.971	0	%100
22	M39A	Z	0	0	0	%100
23	M40	X	-.971	-.971	0	%100
24	M40	Z	0	0	0	%100
25	M54	X	-.185	-.185	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-.241	-.241	0	%100
28	M55	Z	0	0	0	%100
29	M56	X	-.241	-.241	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-.615	-.615	0	%100
32	MP2A	Z	0	0	0	%100
33	MP3A	X	-.615	-.615	0	%100
34	MP3A	Z	0	0	0	%100
35	MP4A	X	-.615	-.615	0	%100
36	MP4A	Z	0	0	0	%100
37	MP1A	X	-.745	-.745	0	%100
38	MP1A	Z	0	0	0	%100
39	MP3C	X	-.615	-.615	0	%100
40	MP3C	Z	0	0	0	%100
41	MP4C	X	-.615	-.615	0	%100
42	MP4C	Z	0	0	0	%100
43	MP5C	X	-.615	-.615	0	%100
44	MP5C	Z	0	0	0	%100
45	MP2C	X	-.745	-.745	0	%100
46	MP2C	Z	0	0	0	%100
47	MP2B	X	-.615	-.615	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	-.615	-.615	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	-.615	-.615	0	%100
52	MP4B	Z	0	0	0	%100
53	MP1B	X	-.745	-.745	0	%100
54	MP1B	Z	0	0	0	%100
55	MP1C	X	-.615	-.615	0	%100
56	MP1C	Z	0	0	0	%100
57	LIGHT	X	-.308	-.308	0	%100
58	LIGHT	Z	0	0	0	%100
59	OVP	X	-.503	-.503	0	%100
60	OVP	Z	0	0	0	%100
61	M58	X	0	0	0	%100
62	M58	Z	0	0	0	%100
63	M65	X	-.558	-.558	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-.558	-.558	0	%100
66	M66	Z	0	0	0	%100
67	M67	X	-.661	-.661	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-.661	-.661	0	%100
70	M68	Z	0	0	0	%100
71	M69	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
72	M69	Z	0	0	0	%100
73	M78	X	-.754	-.754	0	%100
74	M78	Z	0	0	0	%100
75	M79	X	-.754	-.754	0	%100
76	M79	Z	0	0	0	%100
77	M80	X	-1.285	-1.285	0	%100
78	M80	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.481	-.481	0	%100
2	M1	Z	-.278	-.278	0	%100
3	M2	X	-.626	-.626	0	%100
4	M2	Z	-.361	-.361	0	%100
5	M5	X	-.715	-.715	0	%100
6	M5	Z	-.413	-.413	0	%100
7	M6	X	-.715	-.715	0	%100
8	M6	Z	-.413	-.413	0	%100
9	M7	X	0	0	0	%100
10	M7	Z	0	0	0	%100
11	M6A	X	-.28	-.28	0	%100
12	M6A	Z	-.162	-.162	0	%100
13	M7A	X	-.28	-.28	0	%100
14	M7A	Z	-.162	-.162	0	%100
15	M23A	X	-.28	-.28	0	%100
16	M23A	Z	-.162	-.162	0	%100
17	M24	X	-.28	-.28	0	%100
18	M24	Z	-.162	-.162	0	%100
19	M38	X	-.481	-.481	0	%100
20	M38	Z	-.278	-.278	0	%100
21	M39A	X	-1.121	-1.121	0	%100
22	M39A	Z	-.647	-.647	0	%100
23	M40	X	-1.121	-1.121	0	%100
24	M40	Z	-.647	-.647	0	%100
25	M54	X	0	0	0	%100
26	M54	Z	0	0	0	%100
27	M55	X	-.626	-.626	0	%100
28	M55	Z	-.361	-.361	0	%100
29	M56	X	0	0	0	%100
30	M56	Z	0	0	0	%100
31	MP2A	X	-.533	-.533	0	%100
32	MP2A	Z	-.308	-.308	0	%100
33	MP3A	X	-.533	-.533	0	%100
34	MP3A	Z	-.308	-.308	0	%100
35	MP4A	X	-.533	-.533	0	%100
36	MP4A	Z	-.308	-.308	0	%100
37	MP1A	X	-.645	-.645	0	%100
38	MP1A	Z	-.372	-.372	0	%100
39	MP3C	X	-.533	-.533	0	%100
40	MP3C	Z	-.308	-.308	0	%100
41	MP4C	X	-.533	-.533	0	%100
42	MP4C	Z	-.308	-.308	0	%100
43	MP5C	X	-.533	-.533	0	%100
44	MP5C	Z	-.308	-.308	0	%100
45	MP2C	X	-.645	-.645	0	%100
46	MP2C	Z	-.372	-.372	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	MP2B	X	-.533	-.533	0	%100
48	MP2B	Z	-.308	-.308	0	%100
49	MP3B	X	-.533	-.533	0	%100
50	MP3B	Z	-.308	-.308	0	%100
51	MP4B	X	-.533	-.533	0	%100
52	MP4B	Z	-.308	-.308	0	%100
53	MP1B	X	-.645	-.645	0	%100
54	MP1B	Z	-.372	-.372	0	%100
55	MP1C	X	-.533	-.533	0	%100
56	MP1C	Z	-.308	-.308	0	%100
57	LIGHT	X	-.266	-.266	0	%100
58	LIGHT	Z	-.154	-.154	0	%100
59	OVP	X	-.436	-.436	0	%100
60	OVP	Z	-.251	-.251	0	%100
61	M58	X	-.161	-.161	0	%100
62	M58	Z	-.093	-.093	0	%100
63	M65	X	-.161	-.161	0	%100
64	M65	Z	-.093	-.093	0	%100
65	M66	X	-.645	-.645	0	%100
66	M66	Z	-.372	-.372	0	%100
67	M67	X	-.191	-.191	0	%100
68	M67	Z	-.11	-.11	0	%100
69	M68	X	-.763	-.763	0	%100
70	M68	Z	-.441	-.441	0	%100
71	M69	X	-.191	-.191	0	%100
72	M69	Z	-.11	-.11	0	%100
73	M78	X	-.959	-.959	0	%100
74	M78	Z	-.554	-.554	0	%100
75	M79	X	-.5	-.5	0	%100
76	M79	Z	-.288	-.288	0	%100
77	M80	X	-.959	-.959	0	%100
78	M80	Z	-.554	-.554	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.093	-.093	0	%100
2	M1	Z	-.16	-.16	0	%100
3	M2	X	-.12	-.12	0	%100
4	M2	Z	-.209	-.209	0	%100
5	M5	X	-.138	-.138	0	%100
6	M5	Z	-.238	-.238	0	%100
7	M6	X	-.55	-.55	0	%100
8	M6	Z	-.953	-.953	0	%100
9	M7	X	-.138	-.138	0	%100
10	M7	Z	-.238	-.238	0	%100
11	M6A	X	-.486	-.486	0	%100
12	M6A	Z	-.841	-.841	0	%100
13	M7A	X	-.486	-.486	0	%100
14	M7A	Z	-.841	-.841	0	%100
15	M23A	X	0	0	0	%100
16	M23A	Z	0	0	0	%100
17	M24	X	0	0	0	%100
18	M24	Z	0	0	0	%100
19	M38	X	-.37	-.37	0	%100
20	M38	Z	-.641	-.641	0	%100
21	M39A	X	-.486	-.486	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	M39A	Z	-.841	-.841	0	%100
23	M40	X	-.486	-.486	0	%100
24	M40	Z	-.841	-.841	0	%100
25	M54	X	-.093	-.093	0	%100
26	M54	Z	-.16	-.16	0	%100
27	M55	X	-.482	-.482	0	%100
28	M55	Z	-.835	-.835	0	%100
29	M56	X	-.12	-.12	0	%100
30	M56	Z	-.209	-.209	0	%100
31	MP2A	X	-.308	-.308	0	%100
32	MP2A	Z	-.533	-.533	0	%100
33	MP3A	X	-.308	-.308	0	%100
34	MP3A	Z	-.533	-.533	0	%100
35	MP4A	X	-.308	-.308	0	%100
36	MP4A	Z	-.533	-.533	0	%100
37	MP1A	X	-.372	-.372	0	%100
38	MP1A	Z	-.645	-.645	0	%100
39	MP3C	X	-.308	-.308	0	%100
40	MP3C	Z	-.533	-.533	0	%100
41	MP4C	X	-.308	-.308	0	%100
42	MP4C	Z	-.533	-.533	0	%100
43	MP5C	X	-.308	-.308	0	%100
44	MP5C	Z	-.533	-.533	0	%100
45	MP2C	X	-.372	-.372	0	%100
46	MP2C	Z	-.645	-.645	0	%100
47	MP2B	X	-.308	-.308	0	%100
48	MP2B	Z	-.533	-.533	0	%100
49	MP3B	X	-.308	-.308	0	%100
50	MP3B	Z	-.533	-.533	0	%100
51	MP4B	X	-.308	-.308	0	%100
52	MP4B	Z	-.533	-.533	0	%100
53	MP1B	X	-.372	-.372	0	%100
54	MP1B	Z	-.645	-.645	0	%100
55	MP1C	X	-.308	-.308	0	%100
56	MP1C	Z	-.533	-.533	0	%100
57	LIGHT	X	-.154	-.154	0	%100
58	LIGHT	Z	-.266	-.266	0	%100
59	OVP	X	-.251	-.251	0	%100
60	OVP	Z	-.436	-.436	0	%100
61	M58	X	-.279	-.279	0	%100
62	M58	Z	-.484	-.484	0	%100
63	M65	X	0	0	0	%100
64	M65	Z	0	0	0	%100
65	M66	X	-.279	-.279	0	%100
66	M66	Z	-.484	-.484	0	%100
67	M67	X	0	0	0	%100
68	M67	Z	0	0	0	%100
69	M68	X	-.331	-.331	0	%100
70	M68	Z	-.573	-.573	0	%100
71	M69	X	-.331	-.331	0	%100
72	M69	Z	-.573	-.573	0	%100
73	M78	X	-.642	-.642	0	%100
74	M78	Z	-1.113	-1.113	0	%100
75	M79	X	-.377	-.377	0	%100
76	M79	Z	-.653	-.653	0	%100
77	M80	X	-.377	-.377	0	%100
78	M80	Z	-.653	-.653	0	%100

Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M6	Y	-.483	-2.458	0	2
2	M6	Y	-2.458	-4.433	2	4
3	M7	Y	-6.636	-5.656	.8	4
4	M6A	Y	-3.988	-3.808	0	1.858
5	M6A	Y	-3.808	-4.432	1.858	3.717
6	M6A	Y	-4.432	-5.216	3.717	5.575
7	M6A	Y	-5.216	-5.356	5.575	7.433
8	M7A	Y	-.123	-3.198	0	2.052
9	M7A	Y	-3.198	-5.383	2.052	4.103
10	M7A	Y	-5.383	-5.362	4.103	6.155
11	M7A	Y	-5.362	-5.188	6.155	8.207
12	M7A	Y	-5.188	-4.397	8.207	10.258
13	M7A	Y	-4.397	-2.924	10.258	12.31
14	M7A	Y	-2.924	-.922	12.31	14.362
15	M5	Y	-2.834	-3.198	.8	4
16	M23A	Y	-5.402	-5.175	0	1.858
17	M23A	Y	-5.175	-4.372	1.858	3.717
18	M23A	Y	-4.372	-3.765	3.717	5.575
19	M23A	Y	-3.765	-3.929	5.575	7.433
20	M24	Y	-.88	-2.778	0	2.052
21	M24	Y	-2.778	-5.561	2.052	4.103
22	M24	Y	-5.561	-6.22	4.103	6.155
23	M24	Y	-6.22	-4.97	6.155	8.207
24	M24	Y	-4.97	-4.293	8.207	10.258
25	M24	Y	-4.293	-2.76	10.258	12.31
26	M24	Y	-2.76	-.897	12.31	14.362
27	M5	Y	-.483	-2.458	0	2
28	M5	Y	-2.458	-4.433	2	4
29	M6	Y	-3.862	-2.458	.8	4
30	M39A	Y	-3.988	-3.808	0	1.858
31	M39A	Y	-3.808	-4.432	1.858	3.717
32	M39A	Y	-4.432	-5.216	3.717	5.575
33	M39A	Y	-5.216	-5.356	5.575	7.433
34	M40	Y	-.123	-3.198	0	2.052
35	M40	Y	-3.198	-5.383	2.052	4.103
36	M40	Y	-5.383	-5.362	4.103	6.155
37	M40	Y	-5.362	-5.188	6.155	8.207
38	M40	Y	-5.188	-4.397	8.207	10.258
39	M40	Y	-4.397	-2.924	10.258	12.31
40	M40	Y	-2.924	-.922	12.31	14.362

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M6	Y	-1.063	-5.408	0	2
2	M6	Y	-5.408	-9.754	2	4
3	M7	Y	-14.599	-12.444	.8	4
4	M6A	Y	-8.773	-8.377	0	1.858
5	M6A	Y	-8.377	-9.75	1.858	3.717
6	M6A	Y	-9.75	-11.474	3.717	5.575
7	M6A	Y	-11.474	-11.782	5.575	7.433
8	M7A	Y	-.271	-7.035	0	2.052
9	M7A	Y	-7.035	-11.843	2.052	4.103
10	M7A	Y	-11.843	-11.797	4.103	6.155
11	M7A	Y	-11.797	-11.413	6.155	8.207
12	M7A	Y	-11.413	-9.673	8.207	10.258
13	M7A	Y	-9.673	-6.434	10.258	12.31

Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M7A	Y	-6.434	-2.028	12.31	14.362
15	M5	Y	-6.235	-7.035	.8	4
16	M23A	Y	-11.884	-11.384	0	1.858
17	M23A	Y	-11.384	-9.618	1.858	3.717
18	M23A	Y	-9.618	-8.282	3.717	5.575
19	M23A	Y	-8.282	-8.643	5.575	7.433
20	M24	Y	-1.936	-6.113	0	2.052
21	M24	Y	-6.113	-12.235	2.052	4.103
22	M24	Y	-12.235	-13.685	4.103	6.155
23	M24	Y	-13.685	-10.933	6.155	8.207
24	M24	Y	-10.933	-9.444	8.207	10.258
25	M24	Y	-9.444	-6.073	10.258	12.31
26	M24	Y	-6.073	-1.974	12.31	14.362
27	M5	Y	-1.063	-5.408	0	2
28	M5	Y	-5.408	-9.754	2	4
29	M6	Y	-8.496	-5.408	.8	4
30	M39A	Y	-8.773	-8.377	0	1.858
31	M39A	Y	-8.377	-9.75	1.858	3.717
32	M39A	Y	-9.75	-11.474	3.717	5.575
33	M39A	Y	-11.474	-11.782	5.575	7.433
34	M40	Y	-.271	-7.035	0	2.052
35	M40	Y	-7.035	-11.843	2.052	4.103
36	M40	Y	-11.843	-11.797	4.103	6.155
37	M40	Y	-11.797	-11.413	6.155	8.207
38	M40	Y	-11.413	-9.673	8.207	10.258
39	M40	Y	-9.673	-6.434	10.258	12.31
40	M40	Y	-6.434	-2.028	12.31	14.362

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.005
2	N18	N17	N10	N14	Y	Two Way	-.005
3	N14	N10	N15	N16	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N16	N15	N17	N18	Y	Two Way	-.011
2	N18	N17	N10	N14	Y	Two Way	-.011
3	N14	N10	N15	N16	Y	Two Way	-.011

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	N2	max	4412.306	10	1058.374	14	959.986	1	-.882	11	3.399	11	.888	4
2		min	-4408.05	4	239.177	8	-872.982	7	-3.054	41	-3.448	5	-.805	10
3	N77	max	2219.68	11	1024.367	20	3826.576	1	1.615	24	3.487	7	2.587	18
4		min	-2210.738	5	235.895	2	-3989.687	7	.219	5	-3.429	1	.557	12
5	N109	max	2232.172	9	933.743	18	3307.282	2	1.281	15	2.892	3	-.475	2
6		min	-2296.407	3	214.096	12	-3389.617	8	.17	9	-2.969	9	-2.41	20
7	N150	max	61.404	10	1739.14	1	993.381	7	0	75	0	4	0	10
8		min	-61.375	4	-594.991	7	-2789.59	1	0	1	0	10	0	4
9	N151	max	701.99	3	1706.04	9	1367.312	9	0	18	0	12	0	12
10		min	-2368.87	9	-483.629	3	-405.417	3	0	12	0	18	0	18
11	N152	max	2389.915	17	1741.448	17	1379.777	17	0	8	0	8	0	8

Envelope Joint Reactions (Continued)

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
12		min	-537.348	11	-367.76	11	-310.27	11	0	26	0	26	0	26
13	Totals:	max	5708.312	10	7154.473	24	5538.202	1						
14		min	-5708.312	4	2260.41	69	-5538.197	7						

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

	Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Lo...	Dir	LC	phi*Pn...	phi*...	phi*...	phi*...	...	Eqn
1	M1	HSS4X4X4	.317	0	5	.180	0	z	4	138875...	1395..	16.181	16.181	...	H1-...
2	M2	HSS4.5X4.5X3	.149	0	4	.050	.75	z	4	119784...	1213..	16.25	16.25	...	H1-...
3	M5	LL3x3x4x0	.327	1.958	1	.049	1....	y	1	76288....	93312	6.48	4.357	...	H1-...
4	M6	LL3x3x4x0	.340	0	21	.054	1....	y	21	76288....	93312	6.48	4.357	...	H1-...
5	M7	LL3x3x4x0	.349	0	17	.056	1....	y	29	76288....	93312	6.48	4.357	...	H1-...
6	M6A	L3X3X4	.330	3.717	3	.015	7....	z	21	13991....	46656	1.688	3.301	...	H2-1
7	M7A	L3X3X4	.938	11.968	5	.530	7....	y	1	3748.4...	46656	1.688	2.818	...	H2-1
8	M23A	L3X3X4	.325	3.717	7	.015	7....	z	17	13991....	46656	1.688	3.441	...	H2-1
9	M24	L3X3X4	.920	0	5	.622	7....	y	9	3748.4...	46656	1.688	2.75	...	H2-1
10	M38	HSS4X4X4	.315	0	7	.163	0	z	6	138875...	1395..	16.181	16.181	...	H1-...
11	M39A	L3X3X4	.321	3.717	7	.014	7....	z	13	13991....	46656	1.688	3.41	...	H2-1
12	M40	L3X3X4	.895	14.362	9	.564	7....	y	5	3748.4...	46656	1.688	2.748	...	H2-1
13	M54	HSS4X4X4	.275	0	9	.152	0	z	8	138875...	1395..	16.181	16.181	...	H1-...
14	M55	HSS4.5X4.5X3	.154	0	6	.038	0	y	23	119784...	1213..	16.25	16.25	...	H1-...
15	M56	HSS4.5X4.5X3	.158	0	8	.039	2	z	8	119784...	1213..	16.25	16.25	...	H1-...
16	MP2A	PIPE_2.0	.501	4.875	10	.150	4....		9	20866....	32130	1.872	1.872	...	H1-...
17	MP3A	PIPE_2.0	.366	1.938	10	.131	4....		8	20866....	32130	1.872	1.872	...	H1-...
18	MP4A	PIPE_2.0	.273	4.875	10	.145	4....		12	20866....	32130	1.872	1.872	...	H1-...
19	MP1A	PIPE_2.5	.330	4.875	4	.224	4....		12	37773....	50715	3.596	3.596	...	H1-...
20	MP3C	PIPE_2.0	.408	4.875	6	.143	4....		5	20866....	32130	1.872	1.872	...	H1-...
21	MP4C	PIPE_2.0	.303	1.938	6	.162	1....		3	20866....	32130	1.872	1.872	...	H1-...
22	MP5C	PIPE_2.0	.217	4.875	6	.162	1....		8	20866....	32130	1.872	1.872	...	H1-...
23	MP2C	PIPE_2.5	.257	4.875	6	.249	4....		2	37773....	50715	3.596	3.596	...	H1-...
24	MP2B	PIPE_2.0	.485	1.938	2	.143	4....		1	20866....	32130	1.872	1.872	...	H1-...
25	MP3B	PIPE_2.0	.337	1.938	2	.138	4....		4	20866....	32130	1.872	1.872	...	H1-...
26	MP4B	PIPE_2.0	.252	4.875	3	.170	4....		4	20866....	32130	1.872	1.872	...	H1-...
27	MP1B	PIPE_2.5	.310	4.875	8	.222	4....		4	37773....	50715	3.596	3.596	...	H1-...
28	MP1C	PIPE_2.0	.293	4.875	12	.188	1....		3	20866....	32130	1.872	1.872	...	H1-...
29	LIGHT	PIPE_1.25	.014	.833	9	.009	.833		11	18830....	1968..	.801	.801	...	H1-...
30	OVP	PIPE_2.0	.147	2.5	6	.019	2.5		6	28843....	32130	1.872	1.872	...	H1-...
31	M58	PIPE_2.5	.313	11.068	8	.096	10...		5	14558....	50715	3.596	3.596	...	H1-...
32	M65	PIPE_2.5	.351	9.245	3	.176	11...		3	14558....	50715	3.596	3.596	...	H1-...
33	M66	PIPE_2.5	.289	11.068	12	.093	2....		6	14558....	50715	3.596	3.596	...	H1-...
34	M67	L3X3X4	.489	0	11	.106	0	y	6	44286....	46656	1.688	3.756	...	H2-1
35	M68	L3X3X4	.510	1.534	3	.110	0	y	2	44286....	46656	1.688	3.756	...	H2-1
36	M69	L3X3X4	.555	0	3	.073	0	y	4	44286....	46656	1.688	3.756	...	H2-1
37	M78	LL3x3x3x3	.069	0	9	.005	6....	z	6	47147....	70632	5.543	3.74	1	H1-...
38	M79	LL3x3x3x3	.069	6.132	17	.006	0	y	27	47147....	70632	5.543	3.74	1	H1-...
39	M80	LL3x3x3x3	.070	0	1	.005	6....	z	10	47147....	70632	5.543	3.74	1	H1-...

MASER CONSULTING
— CONNECTICUT —

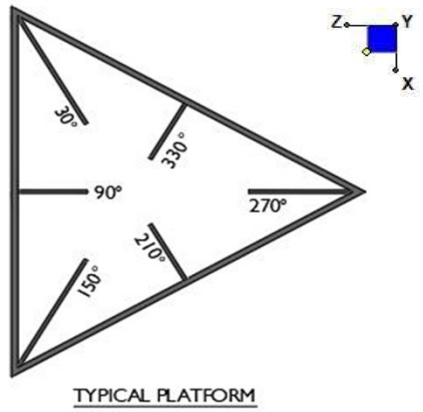
Client:	Verizon Wireless	Date:	12/2/2021
Site Name:	WOODBRIDGE S CT		
Project No.	21777143A		
Title:	Antenna Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

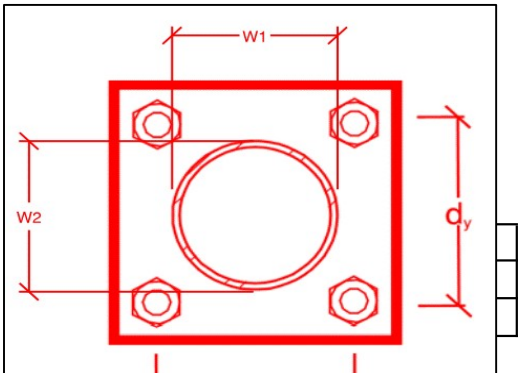
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
n2	90
n109	330
n77	210



TYPICAL PLATFORM

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
W1 (in):	4
W2 (in):	4
Weld Size (1/16 in):	3
Phi*Rn (kip/in):	4.18
Required Weld Strength (kip/in):	2.25
Weld Capacity:	**53.9%**



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

---

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 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:

Certifying Individual:

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

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

☐ Yes ☐ No

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

Issue:

Contractor shall attach proposed OVP 12” from the top of OVP pipe.

Response:

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

☐ Yes ☐ No

Contractor certifies no new damage/obstructions created during the current installation:

☐ Yes ☐ No

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

☐ Safety climb in good condition with no obstructions ☐ Safety Climb Damaged
☐ Safety Climb Obstructed

Comments:

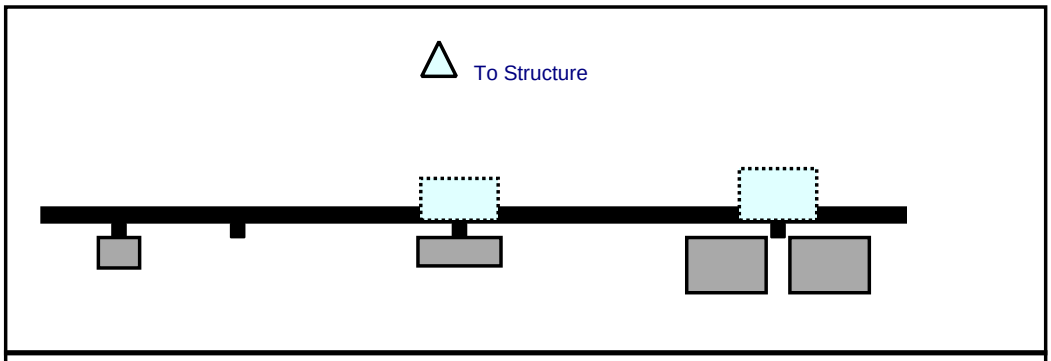
Structure: 467834-VZW - WOODBRIDGE S CT

Sector: **A** 12/2/2021

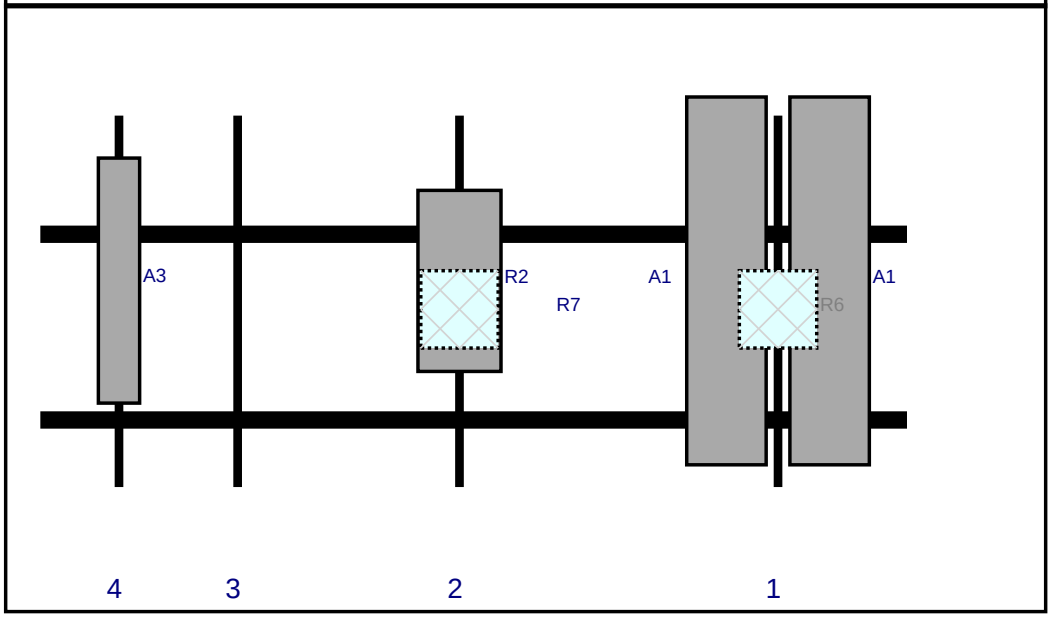
Structure Type: Monopole 10117578

Mount Elev: 124.80 Page: 1

Plan View



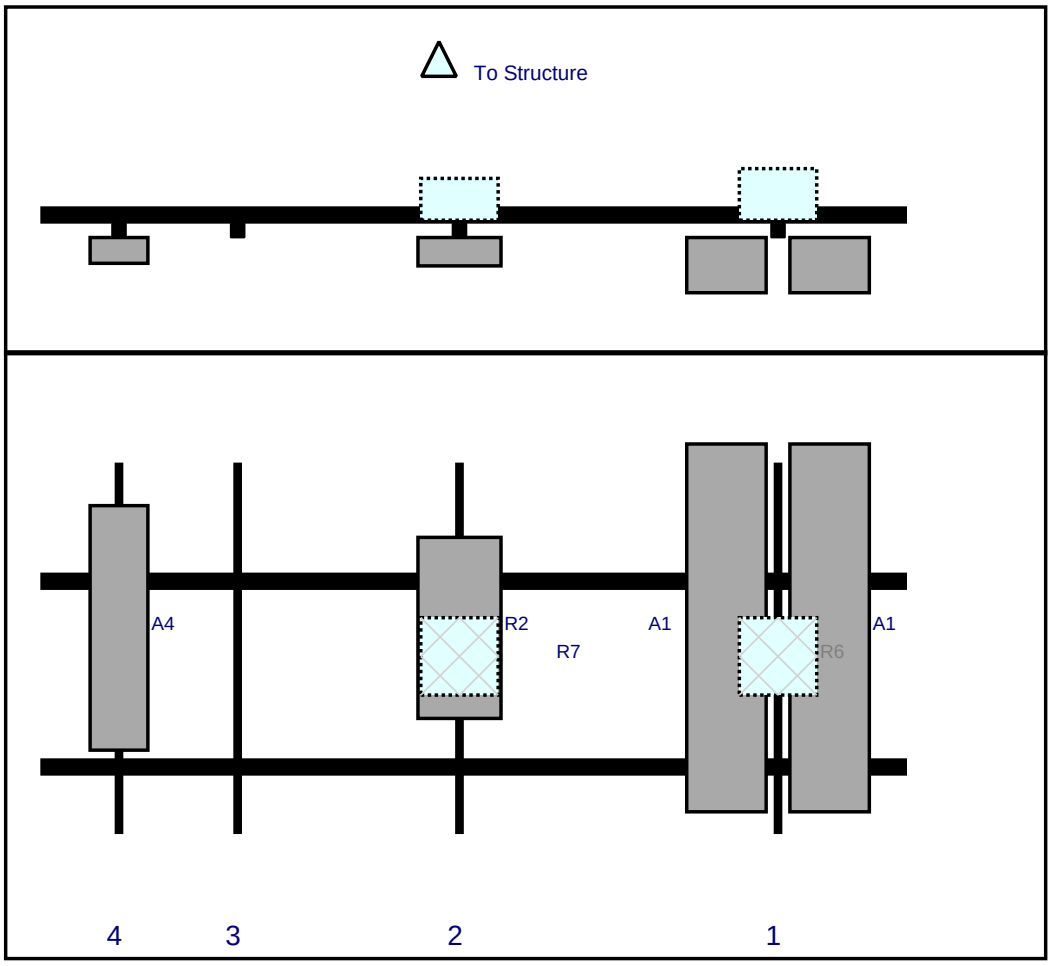
Front View
Looking at Structure



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
A1	MX06FRO660-02	71.3	15.4	143	1	a	Front	32.04	10	Added	
A1	MX06FRO660-02	71.3	15.4	143	1	b	Front	32.04	-10	Added	
R6	B2/B66A RRH-BR049	15	15	143	1	a	Behind	37.56	0	Added	
R2	MT6407-77A	35.1	16.1	81.25	2	a	Front	32.04	0	Added	
R7	B5/B13 RRH-BR04C	15	15	81.25	2	a	Behind	37.56	0	Added	
A3	BXA-70080-4CF	47.5	8	15.25	4	a	Front	31.98	0	Added	

Plan View

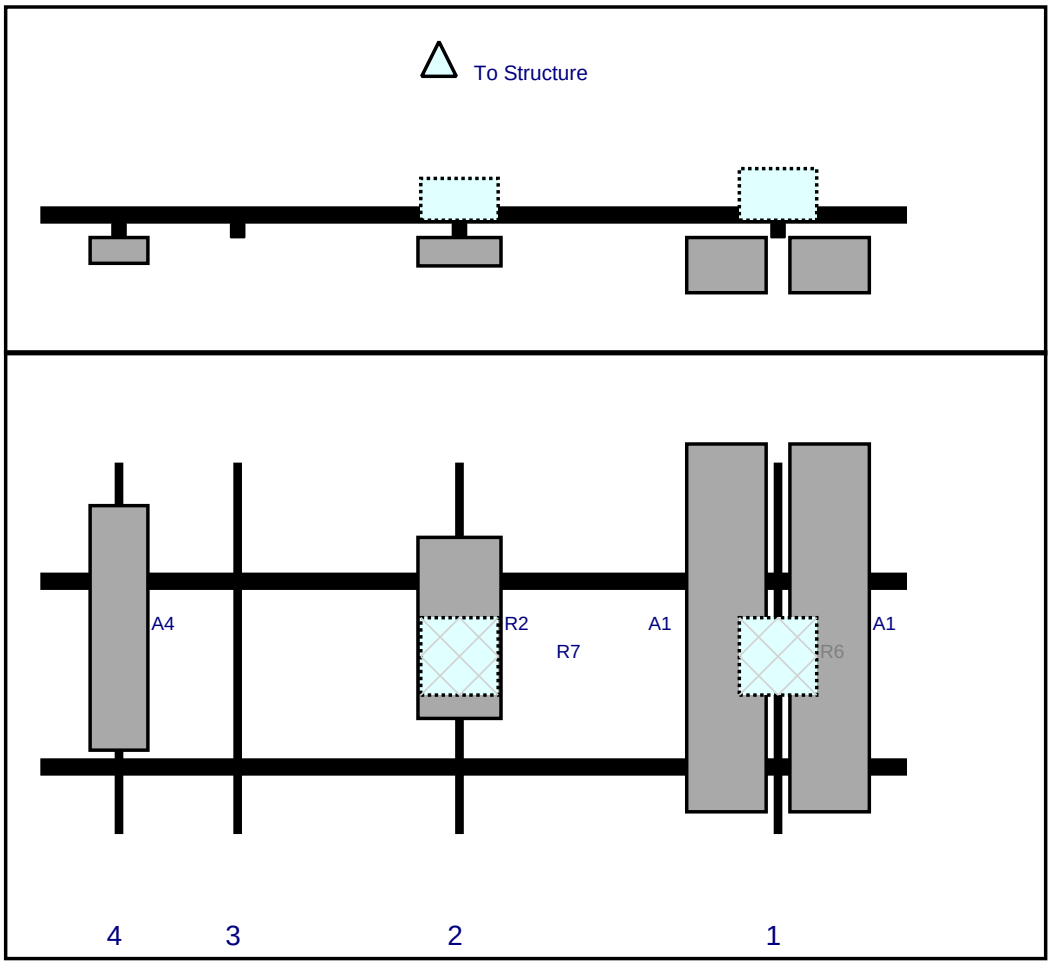
Front View
Looking at Structure



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
A1	MX06FRO660-02	71.3	15.4	143	1	a	Front	32.04	10	Added	
A1	MX06FRO660-02	71.3	15.4	143	1	b	Front	32.04	-10	Added	
R6	B2/B66A RRH-BR049	15	15	143	1	a	Behind	37.56	0	Added	
R2	MT6407-77A	35.1	16.1	81.25	2	a	Front	32.04	0	Added	
R7	B5/B13 RRH-BR04C	15	15	81.25	2	a	Behind	37.56	0	Added	
A4	BXA-80063/4CF	47.4	11.2	15.25	4	a	Front	32.04	0	Added	

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
A1	MX06FRO660-02	71.3	15.4	143	1	a	Front	32.04	10	Added	
A1	MX06FRO660-02	71.3	15.4	143	1	b	Front	32.04	-10	Added	
R6	B2/B66A RRH-BR049	15	15	143	1	a	Behind	37.56	0	Added	
R2	MT6407-77A	35.1	16.1	81.25	2	a	Front	32.04	0	Added	
R7	B5/B13 RRH-BR04C	15	15	81.25	2	a	Behind	37.56	0	Added	
A4	BXA-80063/4CF	47.4	11.2	15.25	4	a	Front	32.04	0	Added	

Maser Consulting Connecticut

MASER CONSULTING
— CONNECTICUT —

Subject		TIA-222-H Usage
Site Information	Site ID:	467834-VZW / WOODBRIDGE S CT
	Site Name:	WOODBRIDGE S CT
	Carrier Name:	Verizon Wireless
	Address:	1116 Johnson Rd. Woodbridge, Connecticut 06525 New Haven County
	Latitude:	41.316833°
	Longitude:	-73.011583°
Structure Information	Tower Type:	Monopole
	Mount Type:	14.00-Ft Platform

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed map by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling method, seismic analysis, 30-degree increment wind direction and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Derek Hartzell, PE
Technical Specialist

Exhibit F

Power Density/RF Emissions Report

Site Name: ***WOODBRIDGE S CT***
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	623	2494	127	0.0056	0.5007	1.11%
VZW CDMA	877.26	2	362	724	127	0.0016	0.5848	0.28%
VZW Cellular	874	4	623	2494	127	0.0056	0.5827	0.95%
VZW PCS	1975	4	1462	5846	127	0.0130	1.0000	1.30%
VZW AWS	2120	4	1530	6122	127	0.0136	1.0000	1.36%
VZW CBAND	3730.08	4	6531	26125	127	0.0583	1.0000	5.83%
Total Percentage of Maximum Permissible Exposure								10.83%

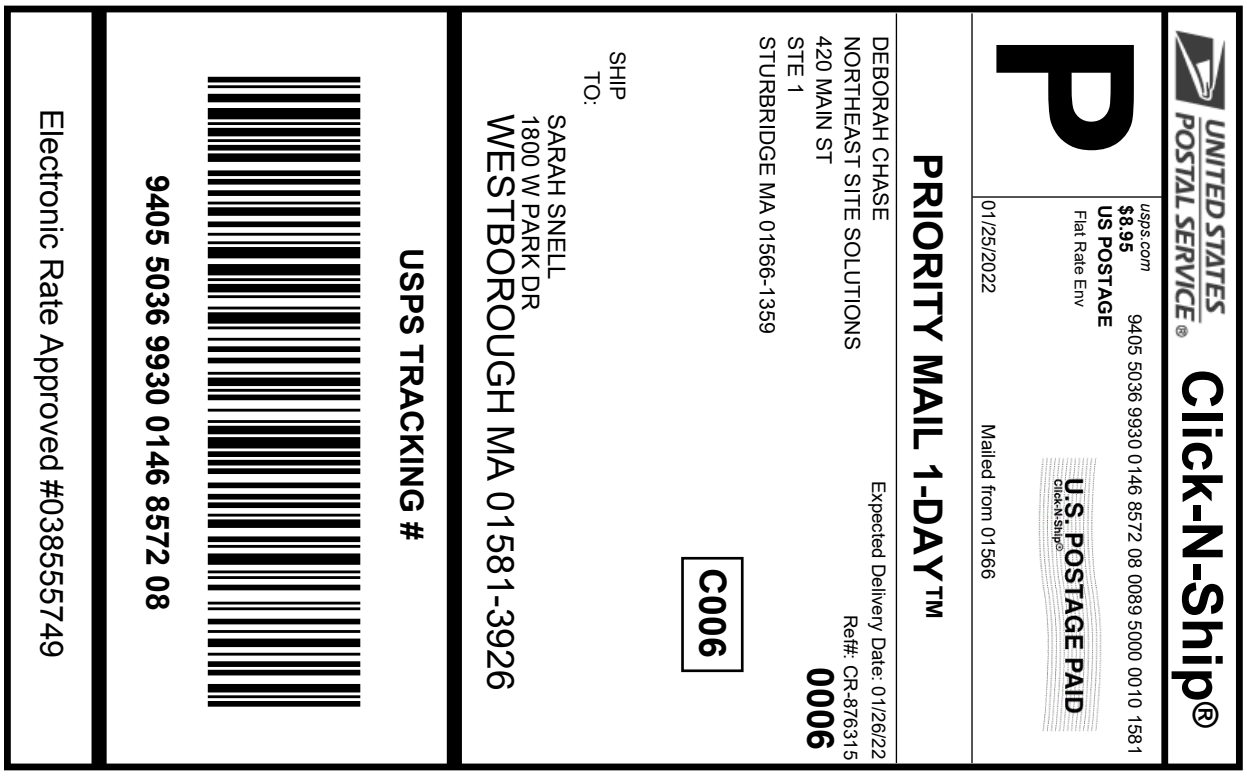
*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992
**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz
mW/cm^2 = milliwatts per square centimeter
ERP = Effective Radiated Power

Absolute worst case maximum values used.

Exhibit G

Recipient Mailings



Cut on dotted line.

Instructions

1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
4. **To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0146 8572 08

Trans. #:	554966619
Print Date:	01/25/2022
Ship Date:	01/25/2022
Expected Delivery Date:	01/26/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

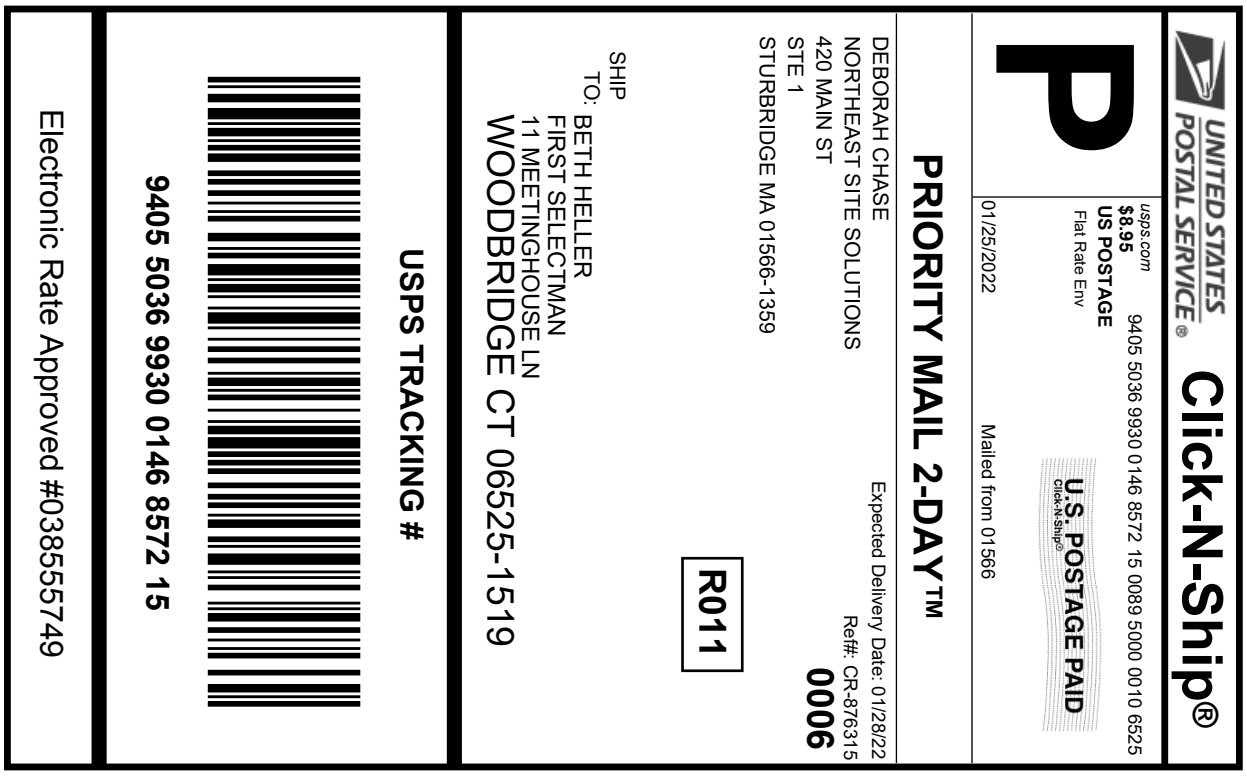
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876315

To: SARAH SNELL
1800 W PARK DR
WESTBOROUGH MA 01581-3926

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com



Cut on dotted line.

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1. **Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.**
2. **Place your label so it does not wrap around the edge of the package.**
3. **Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.**
4. **To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.**
5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0146 8572 15

Trans. #:	554966619
Print Date:	01/25/2022
Ship Date:	01/25/2022
Expected Delivery Date:	01/28/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

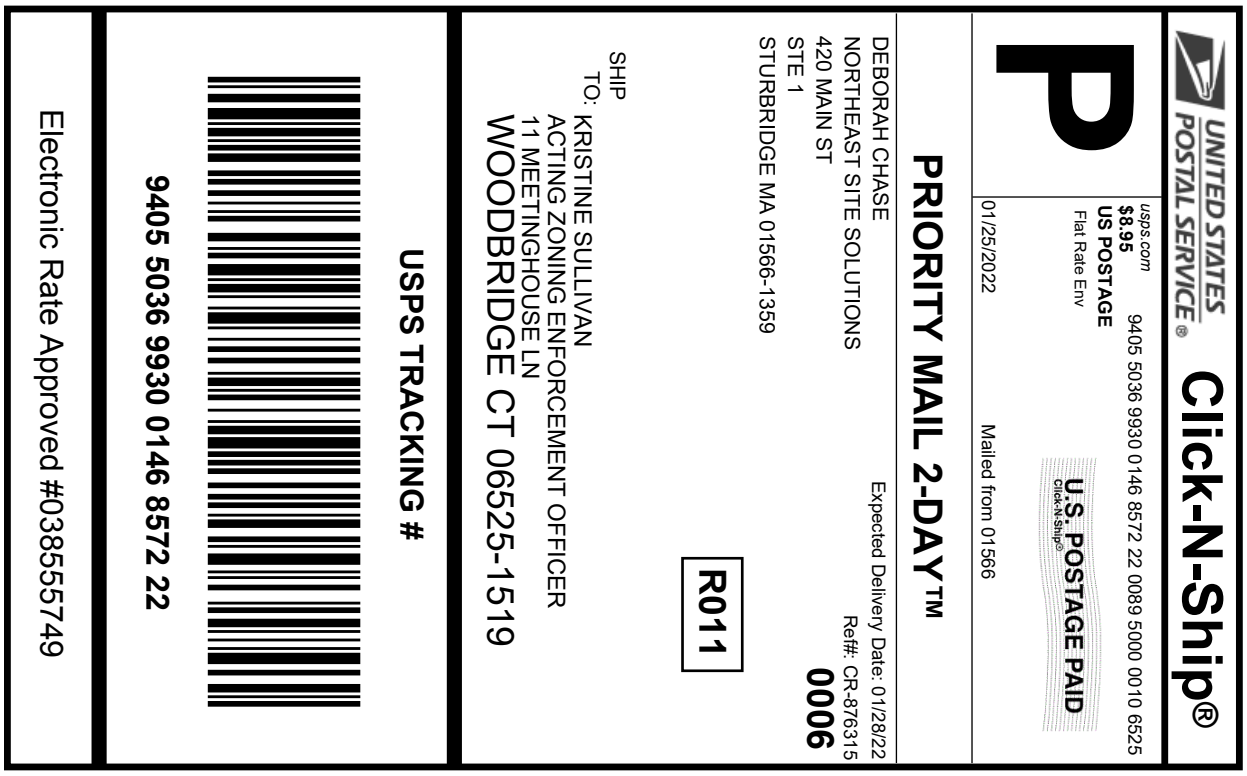
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876315

To: BETH HELLER
FIRST SELECTMAN
11 MEETINGHOUSE LN
WOODBRIDGE CT 06525-1519

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

Thank you for shipping with the United States Postal Service!
Check the status of your shipment on the USPS Tracking® page at usps.com



Cut on dotted line.

Instructions

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0146 8572 22

Trans. #:	554966619
Print Date:	01/25/2022
Ship Date:	01/25/2022
Expected Delivery Date:	01/28/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876315

To: KRISTINE SULLIVAN
ACTING ZONING ENFORCEMENT OFFICER
11 MEETINGHOUSE LN
WOODBRIDGE CT 06525-1519

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

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UNITED STATES POSTAL SERVICE®

Click-N-Ship®

9405 5036 9930 0146 8572 39 0089 5000 0010 6525

usps.com
$8.95
US POSTAGE
Flat Rate Env

01/25/2022 Mailed from 01566

U.S. POSTAGE PAID
Click-N-Ship®

PRIORITY MAIL 2-DAY™

DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Expected Delivery Date: 01/28/22
Ref#: CR-876315

0006

R001

SHIP TO:

THE TRADITION GOLF CLUB AT OAK LANE LLC
1027 RACEBROOK RD
WOODBRIDGE CT 06525-2527

USPS TRACKING #

9405 5036 9930 0146 8572 39

Electronic Rate Approved #038555749

Cut on dotted line.

Instructions

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Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0146 8572 39

Trans. #:	554966619
Print Date:	01/25/2022
Ship Date:	01/25/2022
Expected Delivery Date:	01/28/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-876315

To: THE TRADITION GOLF CLUB AT OAK LANE LLC
1027 RACEBROOK RD
WOODBRIDGE CT 06525-2527

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.

UNITED STATES POSTAL SERVICE®

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876315

UNITED STATES POSTAL SERVICE.

FARMINGTON
210 MAIN ST
FARMINGTON, CT 06032-9998
(800)275-8777

01/26/2022 12:26 PM

Product	Qty	Unit Price	Price
Prepaid Mail Westborough, MA 01581 Weight: 0 lb 1.90 oz Acceptance Date: Wed 01/26/2022 Tracking #: 9405 5036 9930 0146 8572 08	1		$0.00
Prepaid Mail Woodbridge, CT 06525 Weight: 0 lb 7.40 oz Acceptance Date: Wed 01/26/2022 Tracking #: 9405 5036 9930 0146 8572 15	1		$0.00
Prepaid Mail Woodbridge, CT 06525 Weight: 0 lb 7.40 oz Acceptance Date: Wed 01/26/2022 Tracking #: 9405 5036 9930 0146 8572 22	1		$0.00
Prepaid Mail Woodbridge, CT 06525 Weight: 0 lb 7.40 oz Acceptance Date: Wed 01/26/2022 Tracking #:	1		$0.00