NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

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

June 23, 2022

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

RE: Exempt Modification Application
363 Riversville Road, Greenwich, CT 06831
Latitude: 41.066322
Longitude: -73.671516
Site #: 841290_Crown_VZW

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 363 Riversville Road, Greenwich, CT 06831. Verizon Wireless currently maintains fifteen (15) antennas at the 141-foot level of the existing 160-foot tower. The property is owned by Greenwich Council of Boy Scouts Inc and the tower is owned by Crown Castle. Verizon now intends to remove six (6) antennas and install (3) antennas. The new antennas would be installed at the 141-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 March 7, 2022.

Verizon Planned Modifications:

Remove:
(1) RFS APL868013 Antennas
(2) DECIBEL D6844H80E-XY Antennas

Remove and Replace:
(3) RFS APL868013 Antennas (REMOVE) – (3) SAMSUNG MT6407-77A Antennas (REPLACE)

Install New:
(3) COMMSCOPE TD-850AB-L78-43 Diplexers

Existing to Remain:
(3) SAMSUNG XXDWMM CBRS Antennas
(6) COMMSCOPE JAHH Antennas
(3) SAMSUNG B2/B66A RRH
(3) SAMSUNG B5/B13 RRH
(3) COMMSCOPE CBC78T-DS-43-2X Diplexers
(2) COMMSCOPE RC2DC-3315-PF-48 OVPs
(6) 1-5/8" Coax
(2) Hybrid Lines

NORTHEAST SITE SOLUTIONS

Turnkey Wireless Development

This facility was approved by the Connecticut Siting Council, Docket # 050 on July 9, 1985, see attached.

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 Fred Camillo, First Selectman and Katie DeLuca, Director of Planning & Zoning for the Town of Greenwich. 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: Fred Camillo, First Selectman
Town Hall
101 Field Point Road
Greenwich, CT 06830

Katie DeLuca, Director of Planning & Zoning
Town Hall
101 Field Point Road
Greenwich, CT 06830

Greenwich Council of Boy Scouts Inc – Property Owners
63 Mason Street
Greenwich, CT 06830

Crown Castle – Tower Owner

Exhibit A

Original Facility Approval

DOCKET NO. 50

AN APPLICATION SUBMITTED BY THE NEW YORK SMSA LIMITED PARTNERSHIP FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED FOR THE CONSTRUCTION, MAINTENANCE, AND OPERATION OF A FACILITY IN THE TOWN OF GREENWICH, CONNECTICUT, TO PROVIDE CELLULAR SERVICE.	:	CONNECTICUT SITING COUNCIL
	:	July 9, 1985

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

Pursuant to the foregoing Opinion, the Council hereby orders that a Certificate of Environmental Compatibility and Public Need as required by section 16-50k of the General Statutes of Connecticut be issued to New York SMSA Limited Partnership (the Partnership) for the construction, operation, and maintenance of a telecommunication tower and associated equipment in the Town of Greenwich, Connecticut.

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

1. The tower and antennas shall be no taller than necessary to provide the proposed service, and in no event shall exceed 167 feet;
2. The certificate holder shall provide confirmation of the relocation of the Boy Scout tent platforms beyond 200' from the tower site prior to the erection of the tower;
3. The certificate holder shall notify the Council if any additional equipment other than that listed in the Findings of Fact accompanying this Decision and Order is added to this facility;
4. The facility construction shall be conducted in accordance with all applicable federal, state, and municipal laws and regulations;

5. The certificate holder shall provide, prior to commencement of construction, plans for the plantings of trees and shrubs for screening and plans for a 8' high fence around the facility;
6. The certificate holder shall comply with the reporting requirements of section 16-50j-77 of the Regulations of State Agencies;
7. Construction activities shall take place during daylight working hours; and
8. This Decision and Order shall be void if all construction authorized is not completed within three years of the issuance of this decision.

Pursuant to section 16-50p of the General Statutes, we hereby direct that a copy of the Opinion and Decision and Order shall be served on each person listed below. A notice of the issuance shall be published in the Stamford Advocate and the Greenwich Times.

The parties to this proceeding are:

NYNEX Mobil Communications Company (applicant)
One Blue Hill Plaza
P.O. Box 1569
Pearl River, New York 10965-8569

ATTN: John Casamassina
General Manager - Network Design

Mr. Edward R. Wholl, General Counsel (its attorney)
NYNEX Mobile Communications Company
One Blue Hill Plaza
P.O. Box 1569
Pearl River, New York 10965-8569

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

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

Dated at New Britain, Connecticut, this 9th day of July, 1985.

Council Members	Vote Cast
Gloria Dibble Pond Chairperson	Absent
Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
Commissioner Stanley Pac Designee: Christopher Cooper	Absent
Owen L. Clark	Yes
Fred J. Doocy	Yes
Mortimer A. Gelston	Yes
James G. Horsfall	Yes
William H. Smith	Absent
Colin C. Tait	Yes

STATE OF CONNECTICUT)
: ss. New Britain, July 9, 1985
COUNTY OF HARTFORD)

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

ATTEST:

Christopher S. Wood, Executive Director
Connecticut Siting Council

Exhibit B

Property Card

Tax ID 081/014

Card No. 1 of 1

ADMINISTRATIVE INFORMATION

PARCEL NUMBER
10-4035

Parent Parcel Number

Property Address
RIVERSVILLE ROAD 0363

Neighborhood
162100 MID COUNTRY WEST - DIST 10 [3]

Property Class
699 Exempt Open Space

TAXING DISTRICT INFORMATION

Jurisdiction	57	Greenwich, CT
Area	001	
Corporation	057	
District	10	
Section & Plat	091	
Routing Number	7227E0051	

Site Description

Topography:

Public Utilities:
Electric

Street or Road:

Neighborhood:

Zoning:
RA-2 Single Family 2

Legal Acres:
91.0000

OWNERSHIP

GREENWICH COUNCIL OF BOY SCOUTS INC
63 MASON STREET
GREENWICH, CT 06830

LOT NO PT 25 RIVERSVILLE E51

TRANSFER OF OWNERSHIP

Date		
01/07/2011	GREENWICH COUNCIL OF BOY SCOUTS INC	Bk/Pg: 6081, 35
		$0
02/21/1974	NA	Bk/Pg: 880, 287
		$0

EXEMPT

VALUATION RECORD

Assessment Year		10/01/2005	10/01/2007	10/01/2010	10/01/2015	10/01/2015	10/01/2016
Reason for Change		2005 Reval	2007 List	2010 Reval	2015 Prelim	2015 Final	2016 List
VALUATION	I	7866600	7866600	7162500	3010000	3810000	4710000
Market	B	271100	82200	44600	63500	63500	63500
	T	8137700	7948800	7207100	3073500	3873500	4773500
VALUATION	L	5506620	5506620	5013750	2107000	2667000	3297000
70% Assessed	B	189770	57540	31220	44450	44450	44450
	T	5696390	5564160	5044970	2151450	2711450	3341450

LAND DATA AND CALCULATIONS

	Land Type	Rating Soil ID -or- Actual Frontage	Measured Acreage -or- Effective Frontage	Table Effective Depth	Prod. Factor -or- Depth Factor -or- Square Feet	Base Rate	Adjusted Rate	Extended Value	Influence Factor	Value
1	Residential Land		4.0000		1.00	525000.00	525000.00	2100000		2100000
2	Open Space 1		87.0000		1.00	30000.00	30000.00	2610000		2610000

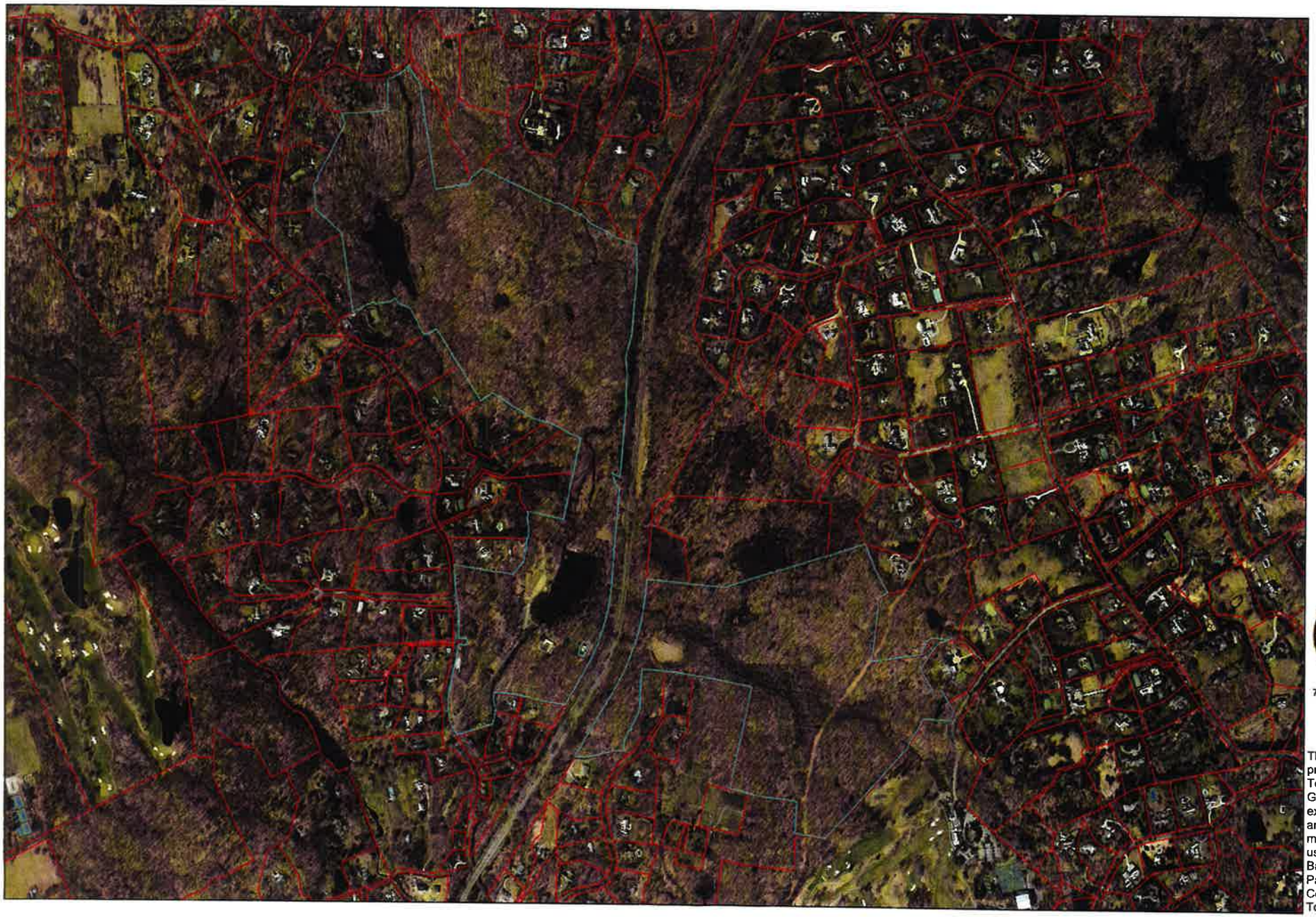
BP15: 15-1382: 3 antennas: $15,000
BP16: 16-0675 nvc $20,000 replace 3 antennas
DBA: Portion of Seton Boy Scout Reservation southeast of Merritt Parkway. Supporting parcel w/ most improvements on 10-4036, northwest of Merritt.
GEN: Revised NBHD from 180100 to 162100. RCS - 11/30/15.

Permit Number / Type	FilingDate	Est. Cost / Est. SqFt	Field Visit

Supplemental Cards

TRUE TAX VALUE 4710000

Supplemental Cards
TOTAL LAND VALUE 4710000



N

1:9000

1"=750'

7/12/2017 9:22:51 AM

This map was produced from the Town of Greenwich GIS. The Town expressly disclaims any liability that may result from the use of this map. Basemap: 4/2/08. Parcels: 10/1/12. Copyright 2005 Town of Greenwich

Exhibit C

Construction Drawings

verizon

VERIZON SITE NUMBER: 468052
VERIZON SITE NAME: W GREENWICH CT
SITE TYPE: MONOPOLE
TOWER HEIGHT: 160'-0"

BUSINESS UNIT #: 841290
SITE ADDRESS: 363 RIVERSVILLE ROAD GREENWICH, CT 06831
COUNTY: FAIRFIELD
JURISDICTION: CONNECTICUT SITING COUNCIL

VERIZON 5G L-SUB6 - CARRIER ADD

SITE INFORMATION

CROWN CASTLE USA INC. SITE NAME:	GREENWICH NORTH
SITE ADDRESS:	363 RIVERSVILLE ROAD GREENWICH, CT 06831
COUNTY:	FAIRFIELD
MAP/PARCEL #:	445888-506919
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.066278°
LONGITUDE:	-73.671500°
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	219'-0"
CURRENT ZONING:	RA-4 (SINGLE FAMILY)
JURISDICTION:	CONNECTICUT SITING COUNCIL
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	GREENWICH COUNCIL OF BOY SCOUTS INC 63 MASON ST GREENWICH, CT 06830
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	VERIZON WIRELESS NETWORK REAL ESTATE 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
ELECTRIC PROVIDER:	NORTHEAST UTILITIES 800-286-2000
TELCO PROVIDER:	LIGHTOWER 978-264-6001

PROJECT TEAM

A&E FIRM:	B+T GROUP 1717 S. BOULDER AVE. TULSA, OK 74119 MARVIN PHILLIPS marvin.phillips@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 WILLIAM GATES - PROJECT MANAGER WILLIAM.GATES@CROWNCASTLE.COM JASON D'AMICO - CONSTRUCTION MANAGER JASON.DAMICO@CROWNCASTLE.COM
VERIZON CONTACT:	TIMOTHY PARKS TIMOTHY.PARKS@VERIZONWIRELESS.COM

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	PLUMBING DIAGRAM
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
ATTACHED	MOUNT MODIFICATION DRAWINGS

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	10135746
VzW LOCATION CODE (PSLC)	468052

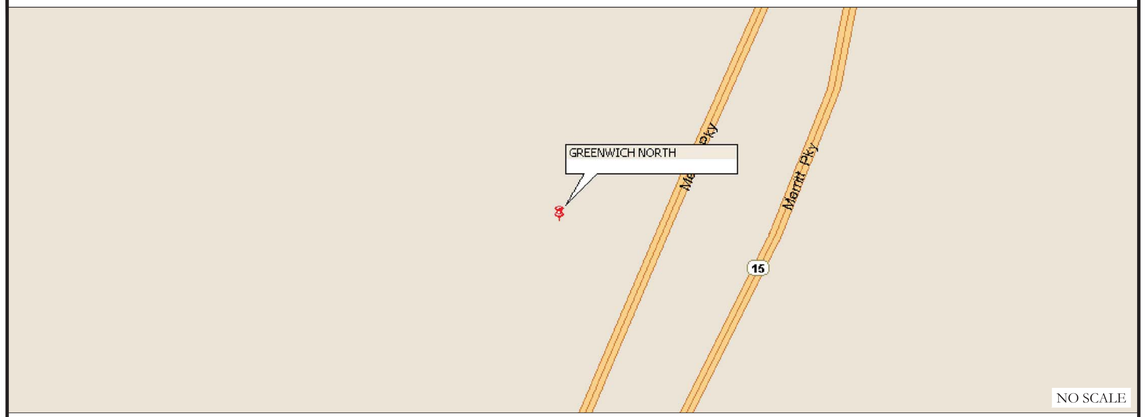
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT

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 WESTCHESTER COUNTY AIRPORT: TAKE AIRPORT RD TO NY-120A N IN GREENWICH, HEAD SOUTH ON AIRPORT RD, SLIGHT LEFT, SLIGHT LEFT ONTO AIRPORT RD, AT THE ROUNDABOUT, TAKE THE 1ST EXIT ONTO RYE LAKE AVE, TURN LEFT ONTO NY-120A N, TURN RIGHT ONTO CLIFFDALE RD, TURN RIGHT ONTO RIVERSVILLE RD, TURN LEFT ONTO PORCHUCK RD, DRIVE TO CT-15 S, TURN RIGHT ONTO ROUND HILL RD, TURN LEFT TOWARD CT-15 S, MERGE WITH CT-15 S, DESTINATION WILL BE ON THE RIGHT.

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	2018 CONNECTICUT SBC/2015 IBC
MECHANICAL	2018 CONNECTICUT SBC/2015 IMC
ELECTRICAL	2018 CONNECTICUT SBC/2017 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	MORRISON HERSHFIELD
DATED:	9/29/21
MOUNT ANALYSIS:	MASER CONSULTING
DATED:	3/7/22
MOUNT MODIFICATION DRAWINGS:	MASER CONSULTING
DATED:	3/7/22
RFDS REVISION:	1
DATED:	10/12/21
ORDER ID:	588833
REVISION:	0

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 (6) ANTENNAS
- RELOCATE (2) OVPs
- INSTALL (3) ANTENNAS
- INSTALL (3) DIPLEXERS
- INSTALL MOUNT MODIFICATIONS PER MOUNT MODIFICATION DESIGN BY MASER CONSULTING DATED MARCH 7, 2022

GROUND SCOPE OF WORK:
- NONE

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
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
468052

BU #: **841290**
GREENWICH NORTH

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING 160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

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.

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).

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

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
468052

BU #: **841290**
GREENWICH NORTH

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING 160'-0" MONOPOLE

ISSUED FOR:

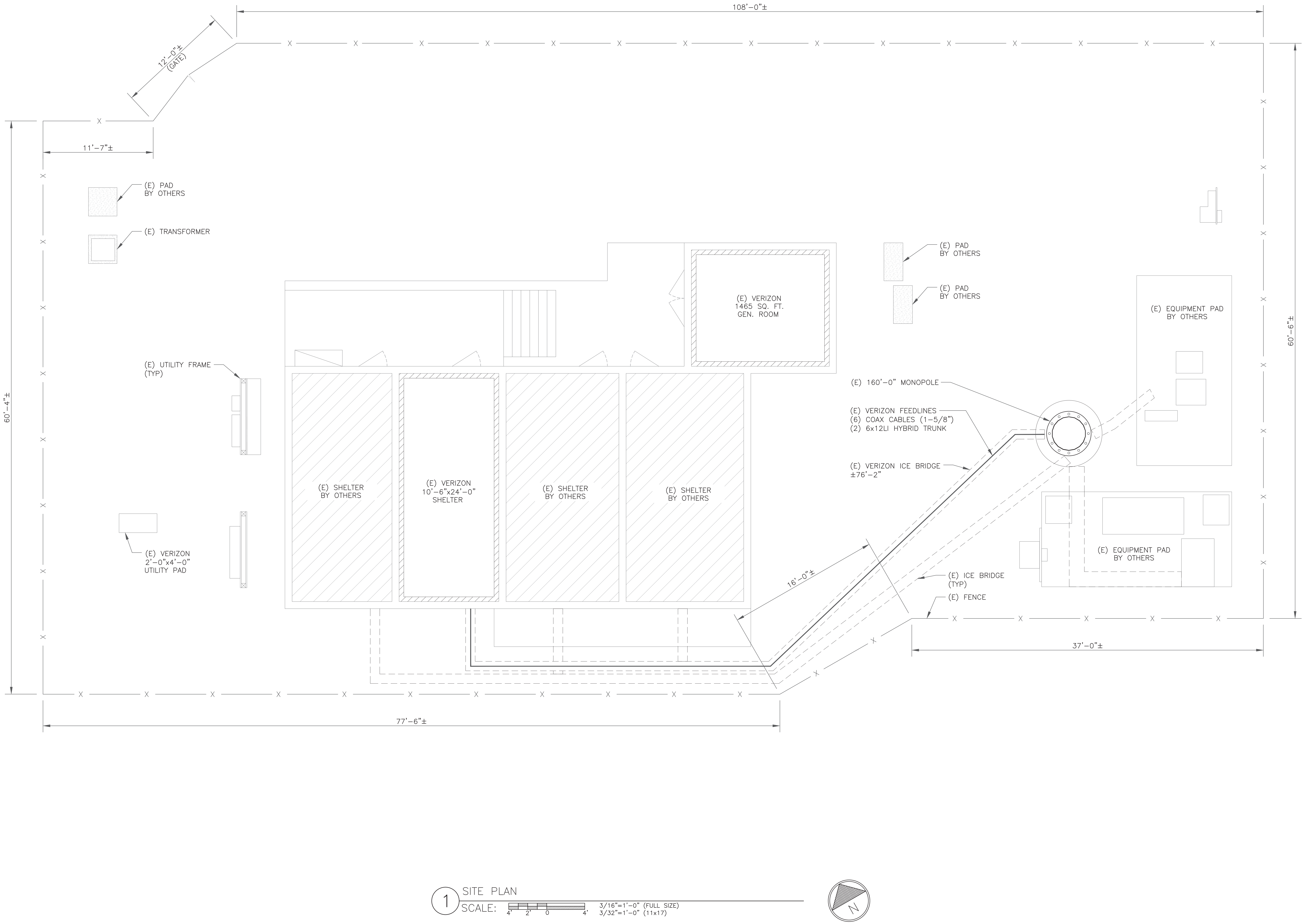
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

No. 23924
4/4/22

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

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

SHEET NUMBER:	REVISION:
T-2	0



1 SITE PLAN
SCALE: 3/16"=1'-0" (FULL SIZE) 3/32"=1'-0" (11x17)

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
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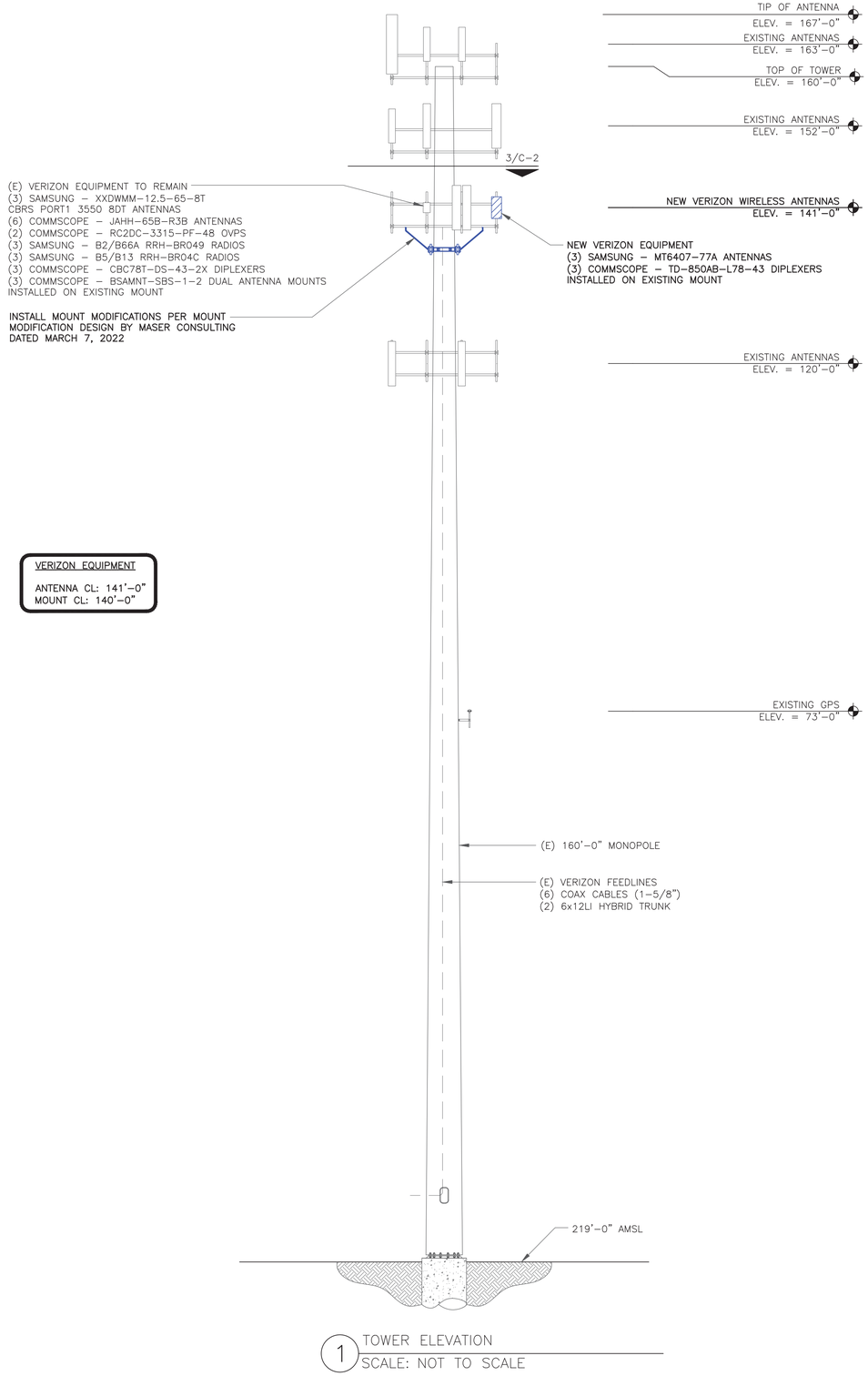
SHEET NUMBER: C-1

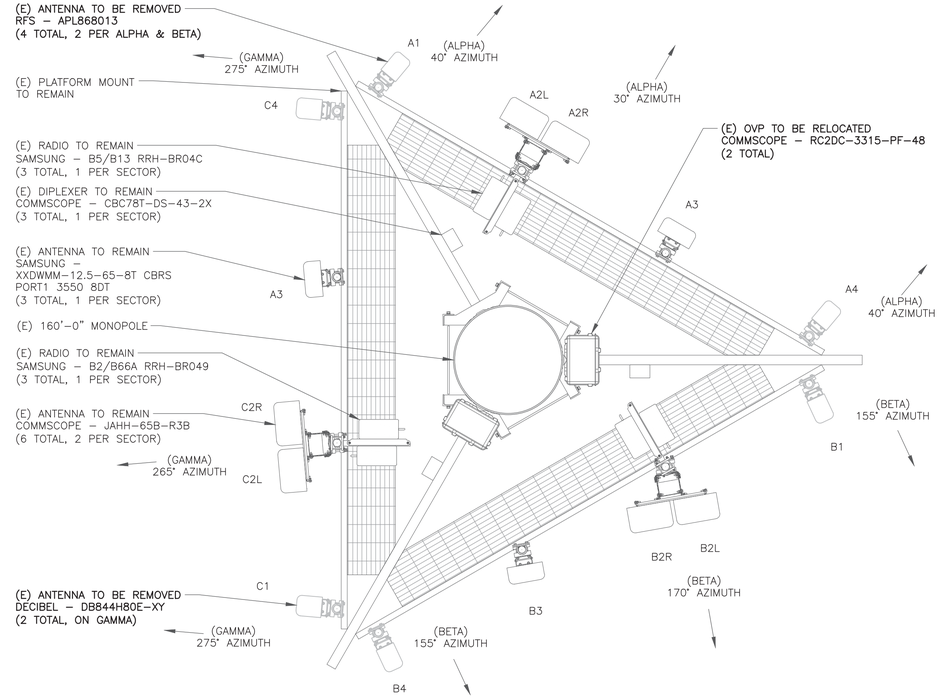
REVISION: 0



VERIZON EQUIPMENT

ANTENNA CL: 141'-0"
MOUNT CL: 140'-0"

1 TOWER ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
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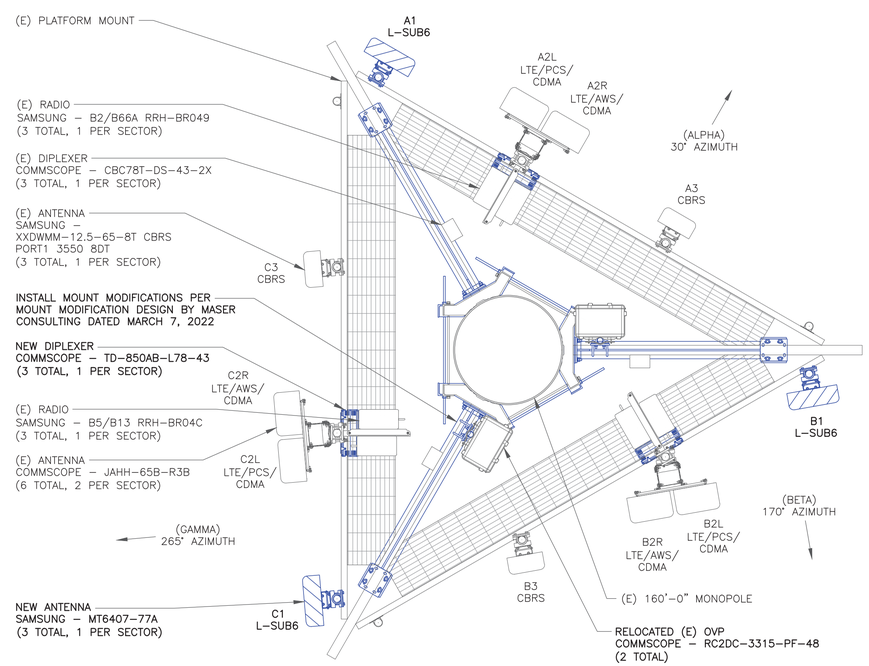

3 NEW ANTENNA PLAN
SCALE: NOT TO SCALE

verizon
180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

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VERIZON SITE NUMBER:
468052

BU #: **841290**
GREENWICH NORTH

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING 160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: C-2

REVISION: 0

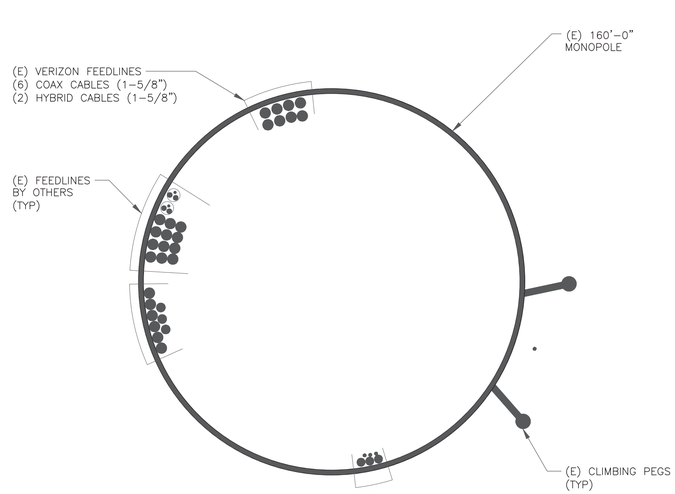
ANTENNA/RRH SCHEDULE

SECTOR	STATUS	ANTENNA MANUFACTURER	ANTENNA MODEL	ANTENNA CENTERLINE	AZIMUTH	MECHANICAL DOWNTILTS	ELECTRICAL DOWNTILTS	TOWER EQUIPMENT MANUFACTURER	TOWER EQUIPMENT QTY/MODEL
A1	NEW	SAMSUNG	MT6407-77A	141'-0"	30°	-	-	SAMSUNG	INTEGRATED WITHIN
A2R	EXISTING	COMMSCOPE	JAHH-65B-R3B	141'-0"	30°	-	-	SAMSUNG COMMSCOPE	(1) B2/B66A RRH-BR049 (1) RC2DC-3315-PF-48
A2L	EXISTING	COMMSCOPE	JAHH-65B-R3B	141'-0"	30°	-	-	SAMSUNG COMMSCOPE	(1) B5/B13 RRH-BR04C (1) TD-850AB-L78-43
A3	EXISTING	SAMSUNG	XXDWMM-12.5-65-8T CBRS PORT1 3550 8DT	141'-0"	30°	-	-	-	-
-	-	-	-	-	-	-	-	-	-
B1	NEW	SAMSUNG	MT6407-77A	141'-0"	170°	-	-	SAMSUNG	INTEGRATED WITHIN
B2R	EXISTING	COMMSCOPE	JAHH-65B-R3B	141'-0"	170°	-	-	SAMSUNG COMMSCOPE	(1) B2/B66A RRH-BR049 (1) RC2DC-3315-PF-48
B2L	EXISTING	COMMSCOPE	JAHH-65B-R3B	141'-0"	170°	-	-	SAMSUNG COMMSCOPE	(1) B5/B13 RRH-BR04C (1) TD-850AB-L78-43
B3	EXISTING	SAMSUNG	XXDWMM-12.5-65-8T CBRS PORT1 3550 8DT	141'-0"	170°	-	-	-	-
-	-	-	-	-	-	-	-	-	-
C1	NEW	SAMSUNG	MT6407-77A	141'-0"	265°	-	-	SAMSUNG	INTEGRATED WITHIN
C2R	EXISTING	COMMSCOPE	JAHH-65B-R3B	141'-0"	265°	-	-	SAMSUNG	(1) B2/B66A RRH-BR049
C2L	EXISTING	COMMSCOPE	JAHH-65B-R3B	141'-0"	265°	-	-	SAMSUNG COMMSCOPE	(1) B5/B13 RRH-BR04C (1) TD-850AB-L78-43
C3	EXISTING	SAMSUNG	XXDWMM-12.5-65-8T CBRS PORT1 3550 8DT	141'-0"	265°	-	-	-	-
-	-	-	-	-	-	-	-	-	-

1 VERIZON TOWER EQUIPMENT SCHEDULE
SCALE: NOT TO SCALE

CABLE SCHEDULE

STATUS	CABLE TYPE	SIZE	LENGTH	QTY
EXISTING	COAX	1-5/8"	191'-0"±	6
EXISTING	HYBRID	1-5/8"	191'-0"±	2
TOTAL CABLE QTY:				8



2 BASE LEVEL DETAIL
SCALE: NOT TO SCALE

N

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180 WASHINGTON VALLEY ROAD
BEDMINSTER, NJ 07921

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

B+T GRP
1717 S. BOULDER
SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
468052

BU #: **841290**
GREENWICH NORTH

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING 160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

STATE OF CONNECTICUT
GREGORY D. GOUT
No. 23924
LICENSED
PROFESSIONAL ENGINEER
4/4/22

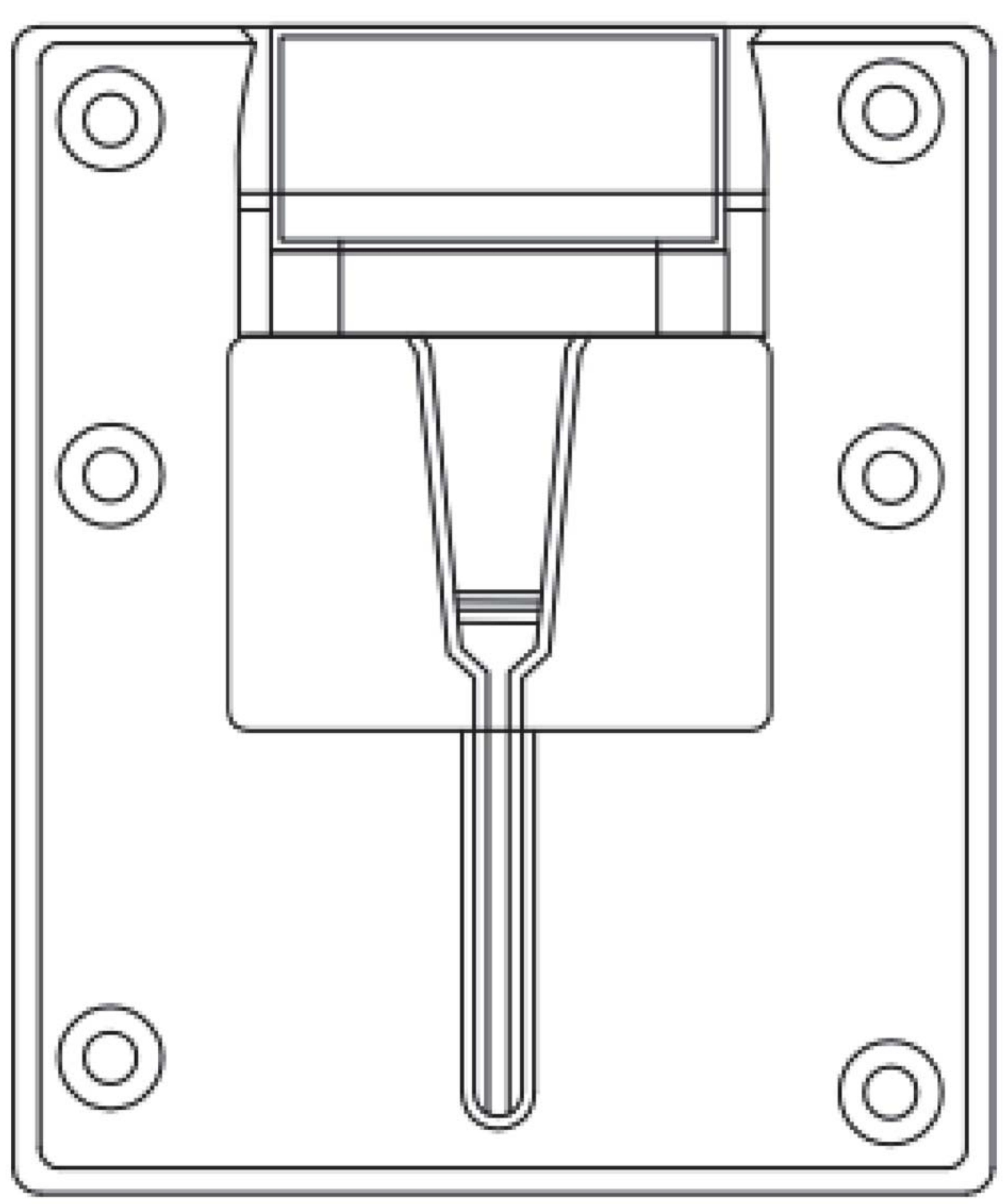
B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: C-3

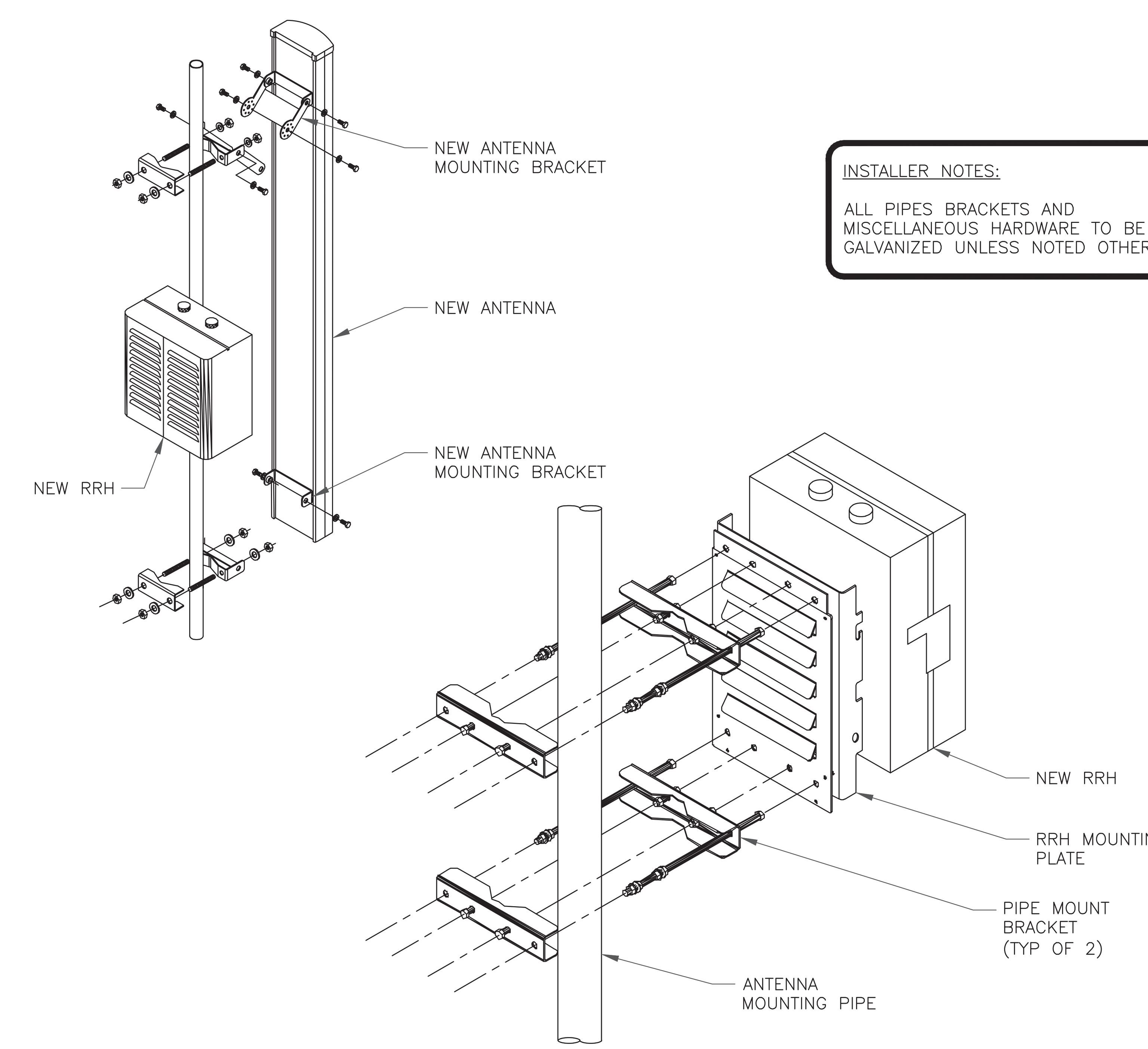
REVISION: 0

1 NOT USED
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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GREENWICH NORTH

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EXISTING 160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

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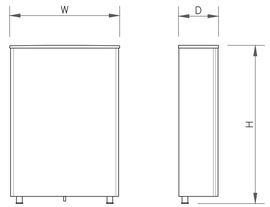
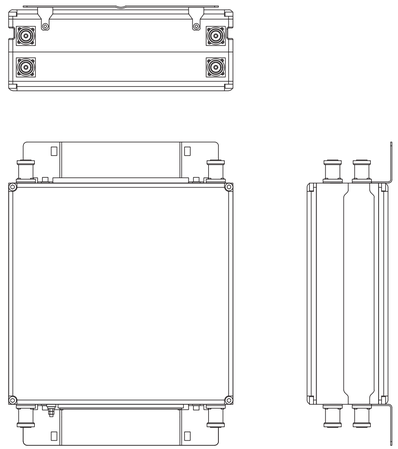
4/4/22

SHEET NUMBER: C-4
REVISION: 0



ANTENNA SPECS	
MANUFACTURER	SAMSUNG
MODEL #	MT6407-77A
WIDTH	16.06"
DEPTH	5.51"
HEIGHT	35.06"
WEIGHT	81.57 LBS

1 ANTENNA DETAILS
SCALE: NOT TO SCALE



COMMSCOPE – TD-850AB-L78-4
WEIGHT (FULLY EQUIPPED): 28.66 LBS
SIZE (HxWxD): 14.45x11.81x5.59 IN.
CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

2 COMMSCOPE – TD-850AB-L78-4
SCALE: NOT TO SCALE

3 NOT USED
SCALE: NOT TO SCALE

4 NOT USED
SCALE: NOT TO SCALE

5 NOT USED
SCALE: NOT TO SCALE

6 NOT USED
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
468052

BU #: **841290**
GREENWICH NORTH

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING 160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
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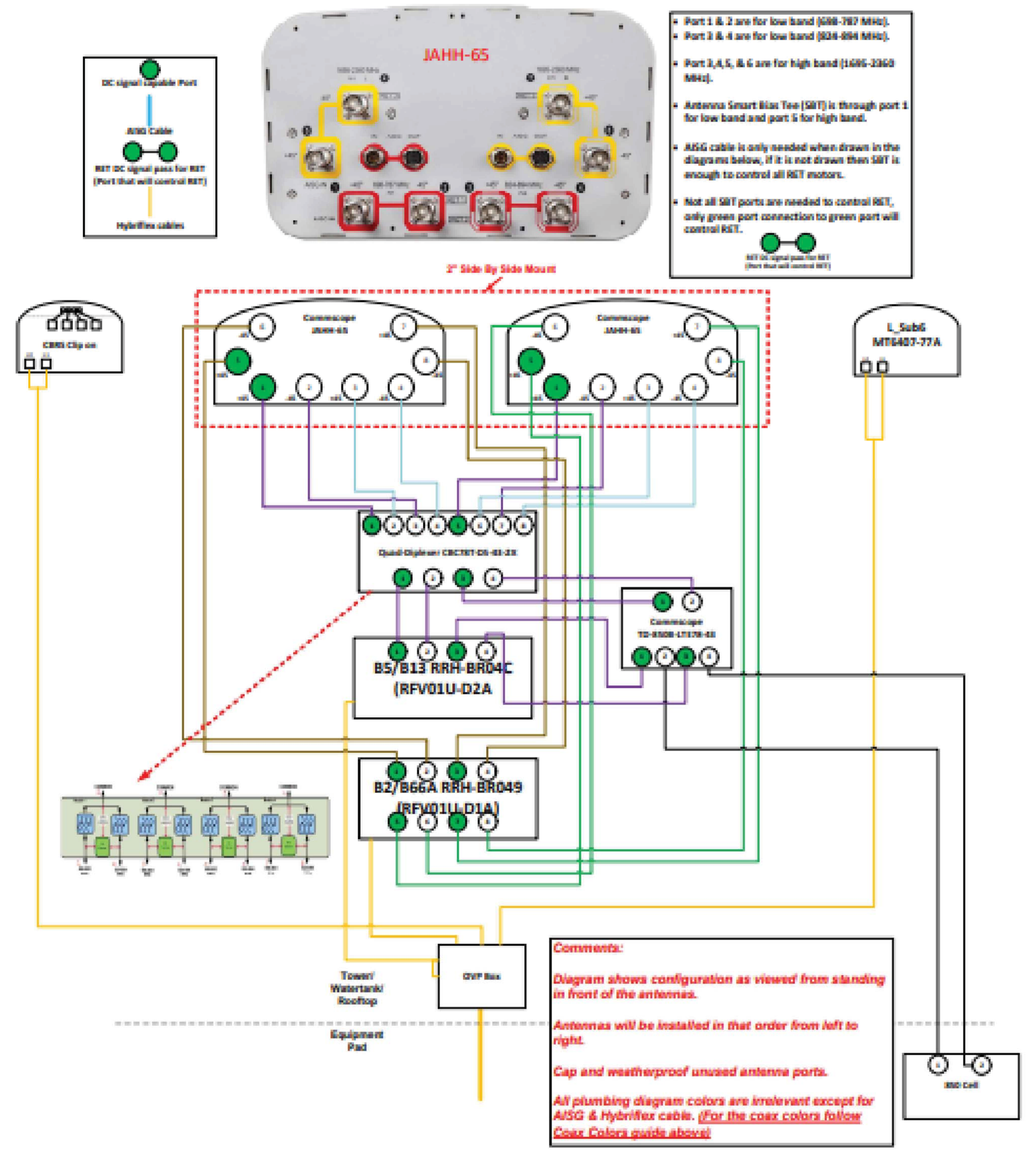
SHEET NUMBER: C-5

REVISION: 0



1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

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VERIZON SITE NUMBER:
468052

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GREENWICH NORTH

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING 160'-0" MONOPOLE

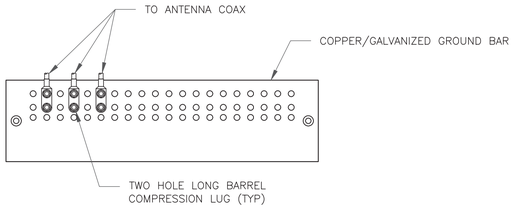
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: C-6

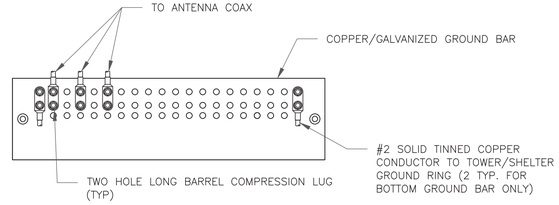
REVISION: 0



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.

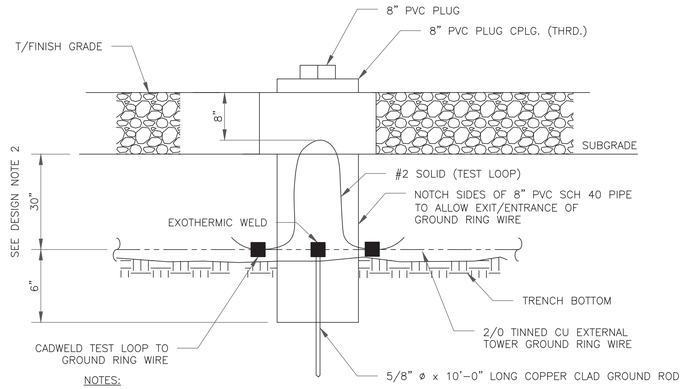
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



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.

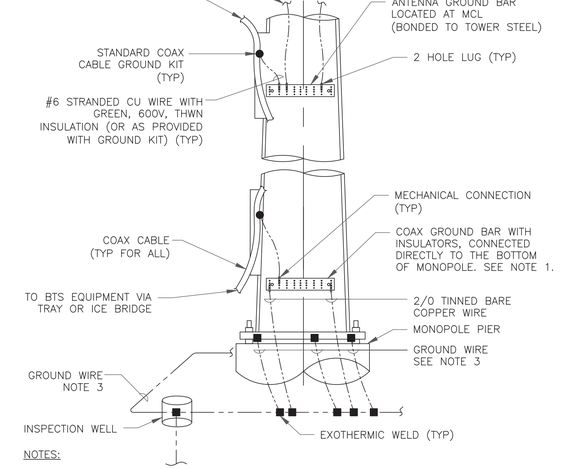
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



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)

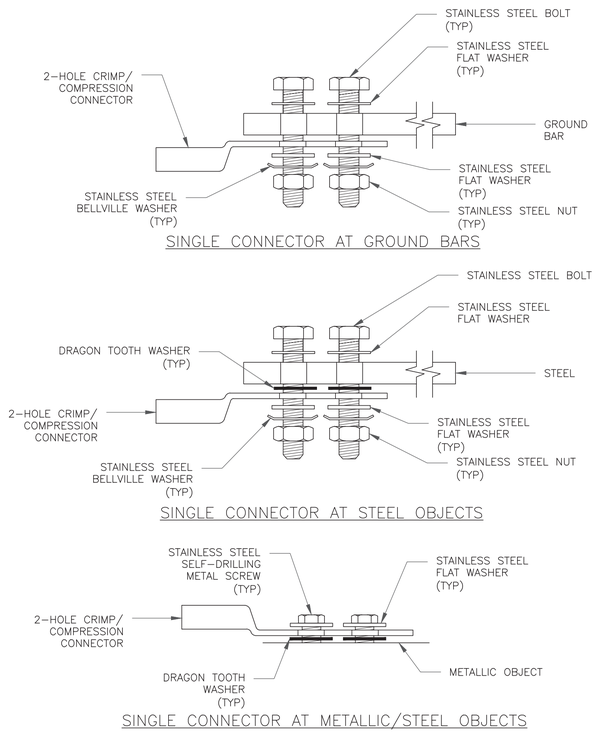
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



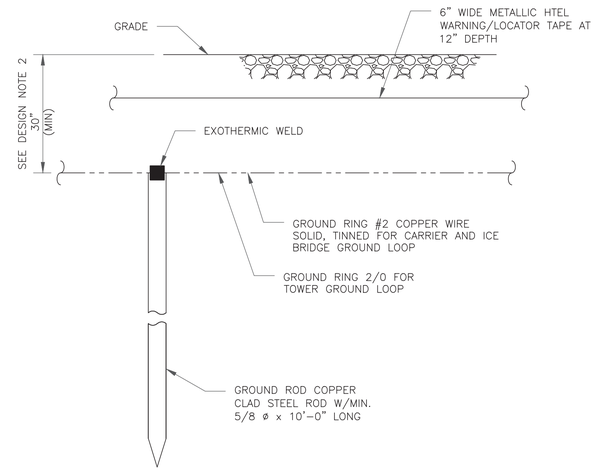
NOTES:

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



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

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SUITE 300
TULSA, OK 74119
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VERIZON SITE NUMBER:
468052

BU #: **841290**
GREENWICH NORTH

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING 160'-0" MONOPOLE

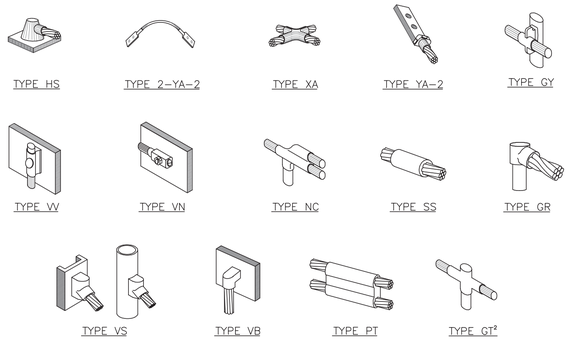
ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: G-1

REVISION: 0

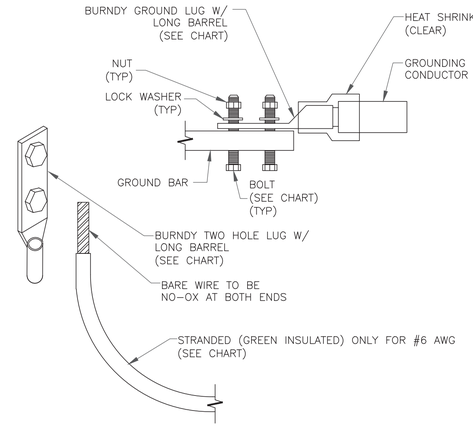


NOTE:

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

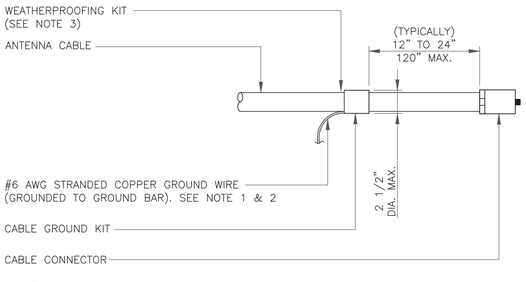
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



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.

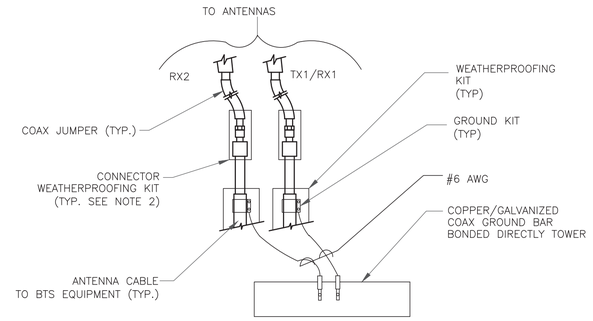
2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



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.

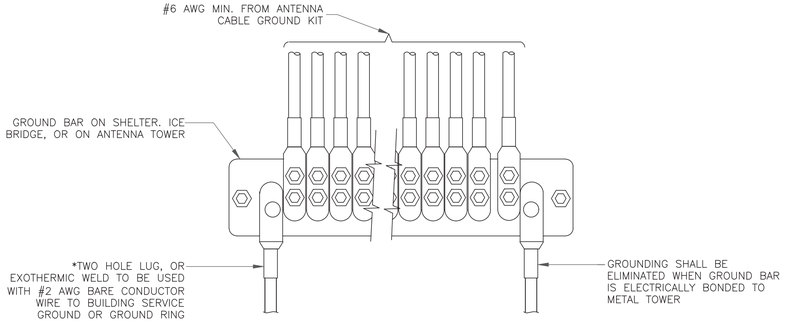
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



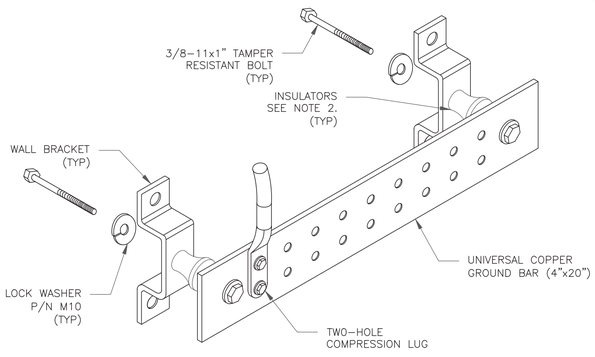
NOTES:

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



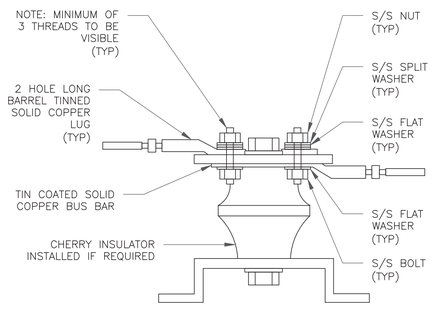
5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



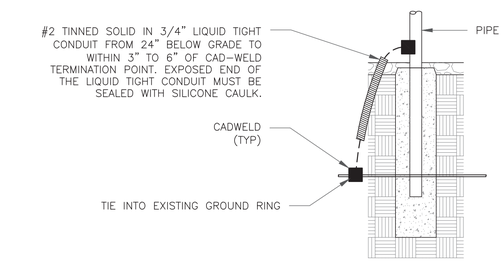
NOTES:

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

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SUITE 300
TULSA, OK 74119
PH: (918) 587-4630
www.btgrp.com

VERIZON SITE NUMBER:
468052

BU #: **841290**
GREENWICH NORTH

363 RIVERSVILLE ROAD
GREENWICH, CT 06831

EXISTING 160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	4/4/22	TDG	CONSTRUCTION	LR

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/23

SHEET NUMBER: G-2

REVISION: 0

MOUNT MODIFICATION DRAWINGS
EXISTING 14.20' PLATFORM

TOWER OWNER: CROWN CASTLE
TOWER OWNER SITE NUMBER: 841290

CARRIER SITE NAME: W GREENWICH CT
CARRIER SITE NUMBER: 468052
FUZE ID: 16244187

363 RIVERVILLE RD.
GREENWICH, CT 06831
FAIRFIELD COUNTY

LATITUDE: 41.066208° N
LONGITUDE: 73.67124° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 116 MPH
EXPOSURE CATEGORY B
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 223.21'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_S = .280
LONG TERM MCER GROUND MOTION, S_1 = .060

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: COLLIERS ENGINEERING & DESIGN
CONTACT: PETER ALBANO
PHONE: 856.797.0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10135746
VZW LOCATION CODE (PSLC): 468052
ANALYSIS DATE: 3/7/2022

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

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.	.	.	.	.
0	03/07/22	ISSUED FOR CONSTRUCTION	DC	DX

STATE OF CONNECTICUT DEJIAN XU No. 33733 LICENSED PROFESSIONAL ENGINEER

03/07/2022

COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. C.O.A. #PC.0000131

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SITE NAME:

W GREENWICH CT
468052

363 RIVERVILLE RD.
GREENWICH, CT 06831
FAIRFIELD COUNTY

Engineering & Design

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

SHEET TITLE :
TITLE SHEET

SHEET NUMBER :
ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
2	VZWSMART	VZWSMART-MSK6	BACK TO BACK CROSSOVER PLATE		34	68
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	291	291
2		VZWSMART-P40-238X048	48" LONG, PIPE 2 STD (2.375"OD X 0.154" THK)		15	30

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
					TOTAL:	539

NOTES:

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

VZWSMART KITS - APPROVED VENDORS	
COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

VZWSMART KITS - APPROVED VENDORS	
NEWAVE	
CONTACT	NEWAVE SALES TEAM
PHONE	(971) 239-4762
EMAIL	SALES@NEWAVETC.COM
WEBSITE	WWW.NEWAVETC.COM
BETTER METAL, LLC	
CONTACT	DAVID STANSBERRY
PHONE	(615) 535-0990 (O), (615) 631-2520 (M)
EMAIL	DLS@BETTERMETAL.COM
WEBSITE	WWW.BETTERMETAL.COM

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JOB NUMBER: 21781022A

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

03/07/2022

COLLIERS ENGINEERING & DESIGN CT, P.C.
C.T. C.O.A. #PC.0000131

SITE NAME:

W GREENWICH CT
468052

363 RIVERVILLE RD.
GREENWICH, CT 06831
FAIRFIELD COUNTY

Colliers Engineering & Design

STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.324.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
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SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: SBOM-1

PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

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

STRUCTURAL STEEL

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

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

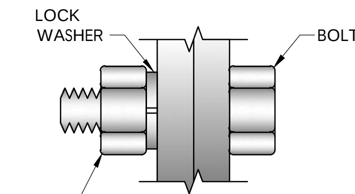
1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
7. CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA, ANSI/ASSP A10.48, ANSI Z49.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

BOLT SCHEDULE (IN.)

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

WORKABLE GAGES (IN.)

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

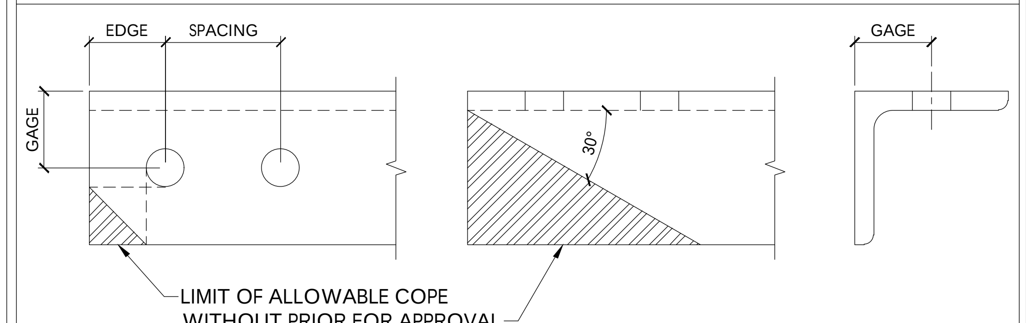


TYP. BOLT ASSEMBLY

NOTES:

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

ALLOWABLE COPING



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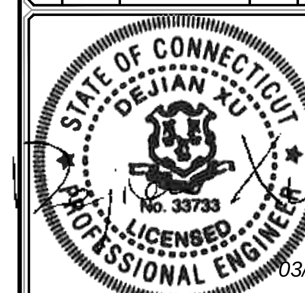

03/07/2022

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C.T. C.O.A. #PC.0000131

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

SITE NAME:

W GREENWICH CT
468052

363 RIVERVILLE RD.
GREENWICH, CT 06831
FAIRFIELD COUNTY

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STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
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COLLIERS ENGINEERING & DESIGN CT, P.C.
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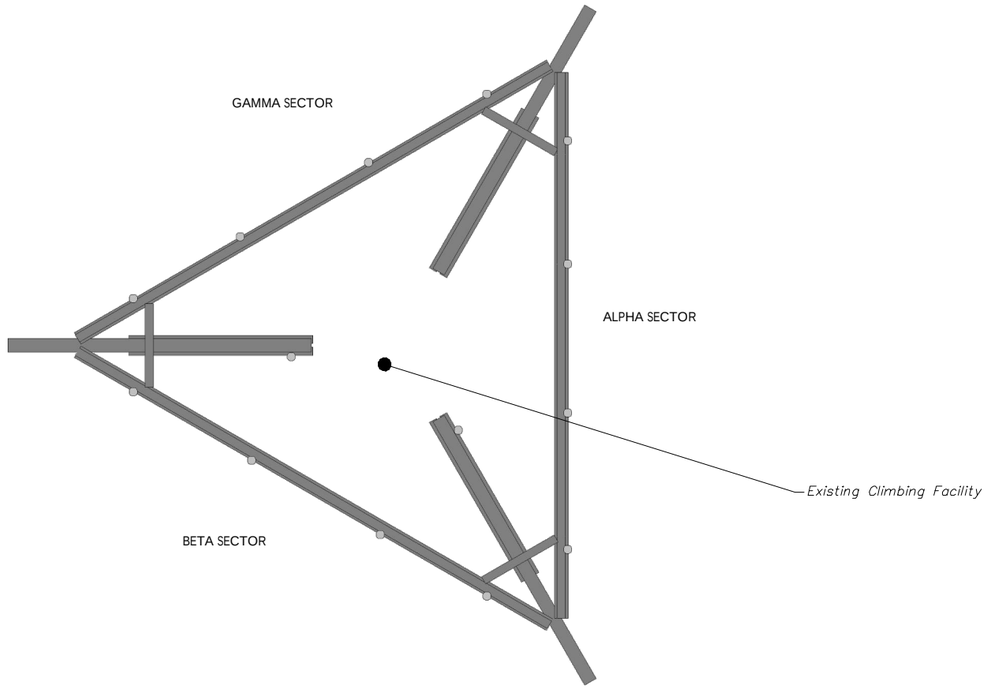
SHEET TITLE :
MODIFICATION NOTES

SHEET NUMBER :
SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



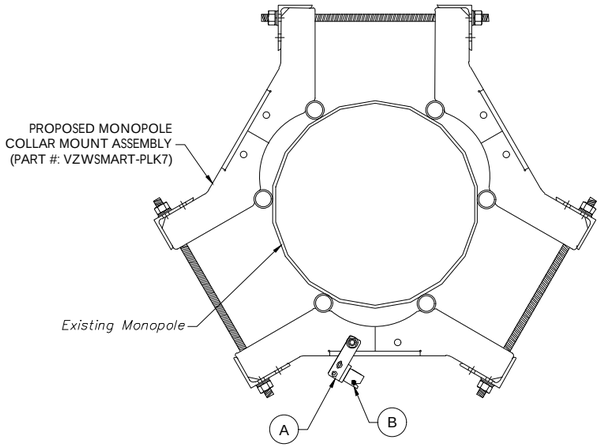
1 CLIMBING FACILITY LOCATION

SCALE : N.T.S.

STRUCTURAL NOTES:

1. CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.

2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

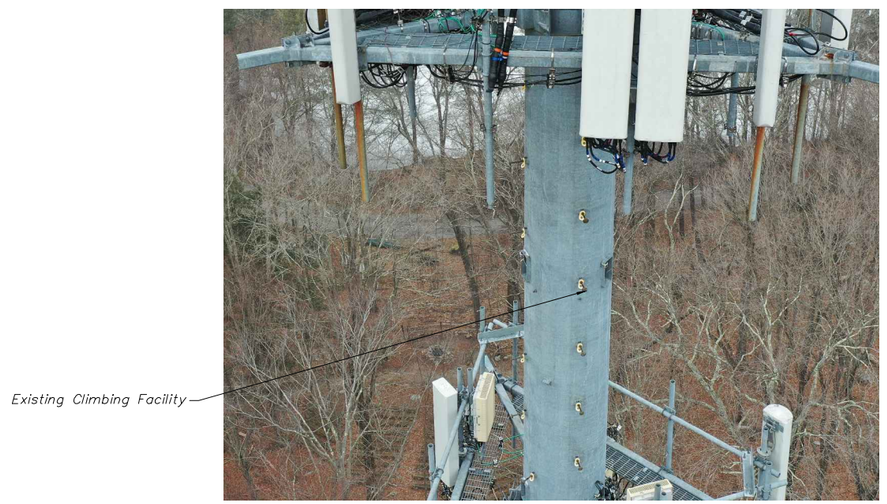


ITEM #	QTY	PART NUMBER	DESCRIPTIONS
A	1	H42-0501-06	WIRE ROPE GUIDE (PERFECT VISION OR EQUIV)
B	1	PV-CMX-CG-BO	WIRE ROPE GUIDE (PERFECT VISION OR EQUIV)

2 PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW

SCALE : N.T.S.

NOTE: CONTRACTOR SHALL ENSURE THAT WIRE ROPE GUIDE DOES NOT PUSH THE WIRE ROPE OUTSIDE OF THE VERTICAL PLANE OF THE SAFETY CLIMB. CONTRACT EOR WITH PHOTOS OF SAFETY CLIMB AND COLLAR FOR FURTHER DIRECTION IF NEEDED.



CLIMBING FACILITY PHOTO

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SHEET TITLE :
CLIMBING FACILITY DETAIL

SHEET NUMBER :
SCF-1

LEGEND:

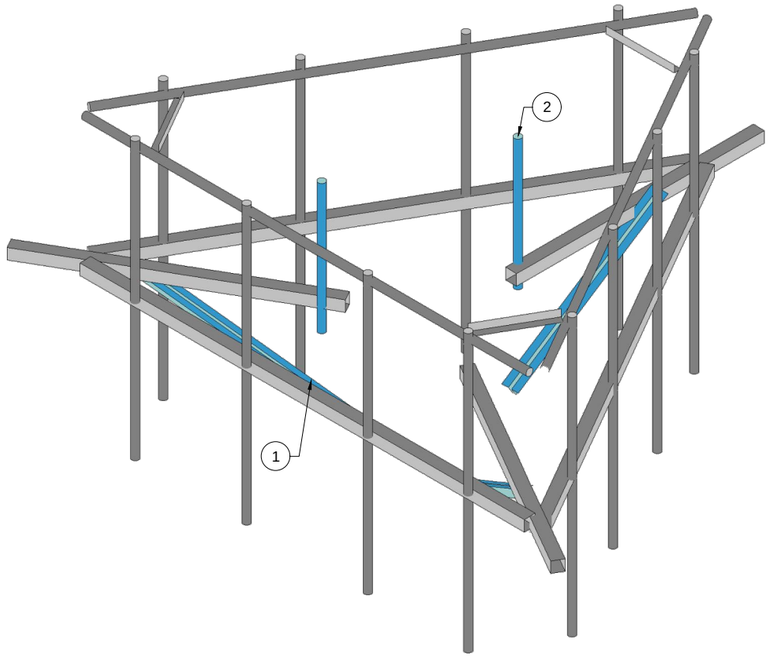
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	139'-0"	1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5))	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
2		2	PROPOSED 48" LONG, P2 STD PART #: VZWSMART-P40-238X048)	CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH BACK TO BACK CROSSOVER PLATE (VZWSMART-MSK6).

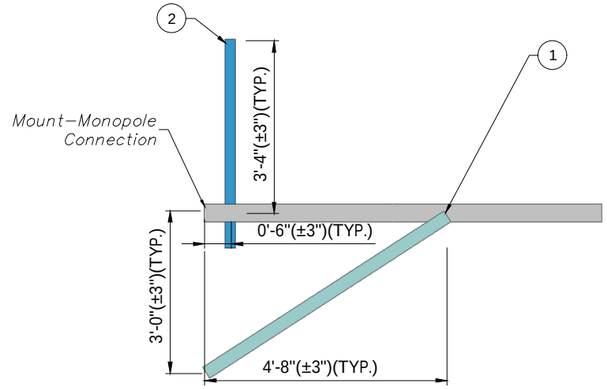
NOTES.

MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (BETWEEN AlPHA/BETA AND BETA/GAMMA)

SCALE : N.T.S.

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LICENSED PROFESSIONAL ENGINEER

03/07/2022

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SHEET TITLE :

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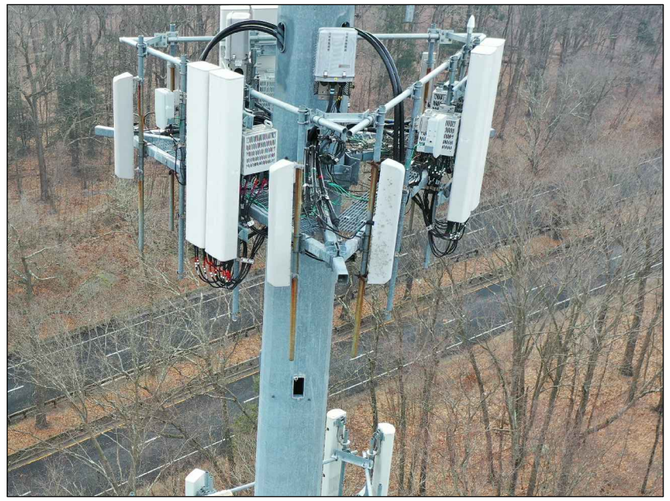
SHEET NUMBER :

SS-1



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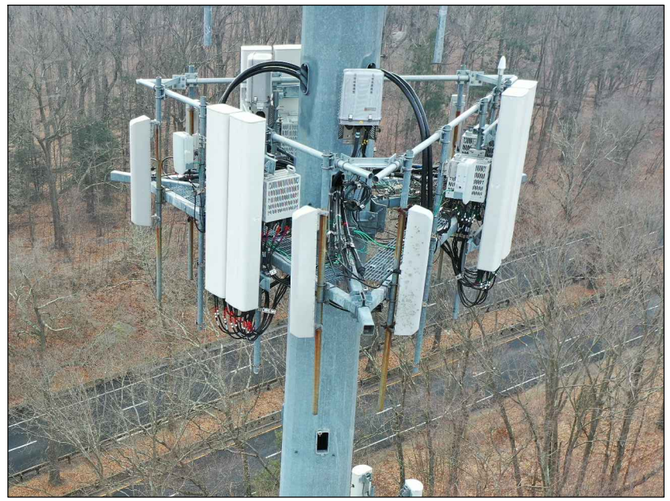

MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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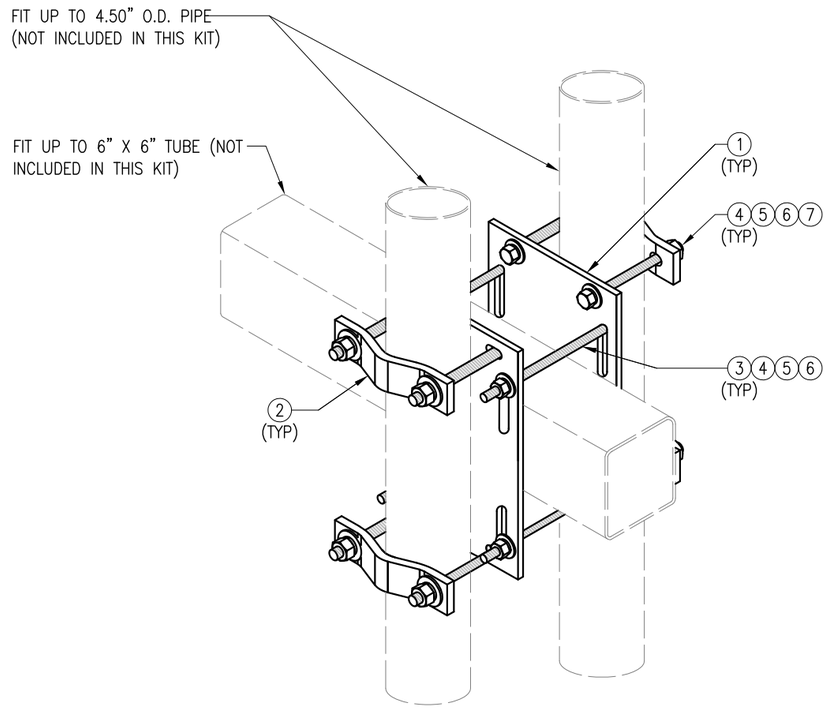
SHEET TITLE : MOUNT PHOTOS

SHEET NUMBER : SS-2



ISOMETRIC VIEW
BACK TO BACK CROSSOVER

VZWSMART-MSK6 (VZWSMART-MSK6 - BACK TO BACK CROSSOVER)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	2	PL375-8512	PL 3/8" X 8 1/2" X 1'-0" A36	MSK6-F2	20.7
2	4	VCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK6-F1	9.6
3	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---
4	16	NUT-625	5/8" HDG HEX NUT	---	2
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	8	---	BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD	---	1
				GALVANIZED WT	34

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

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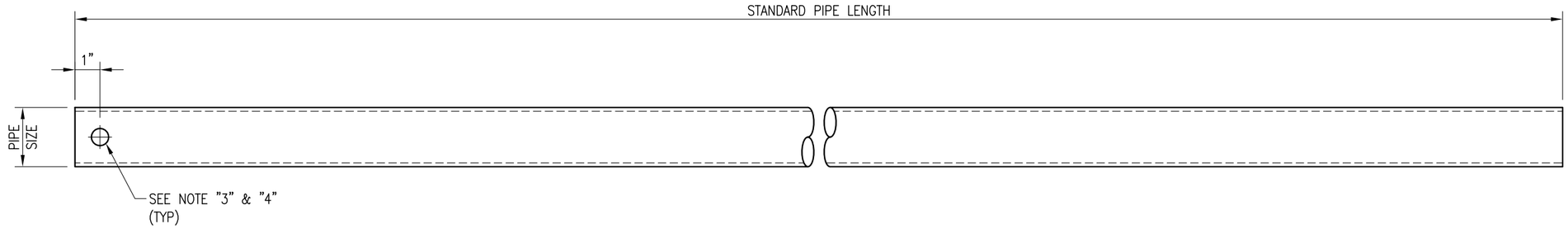
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	SK	05/08/20

SHEET TITLE:
VZWSMART-MSK6
BACK TO BACK
CROSSOVER

SHEET NUMBER: VZWSMART-MSK6

REV #: 0



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

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

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

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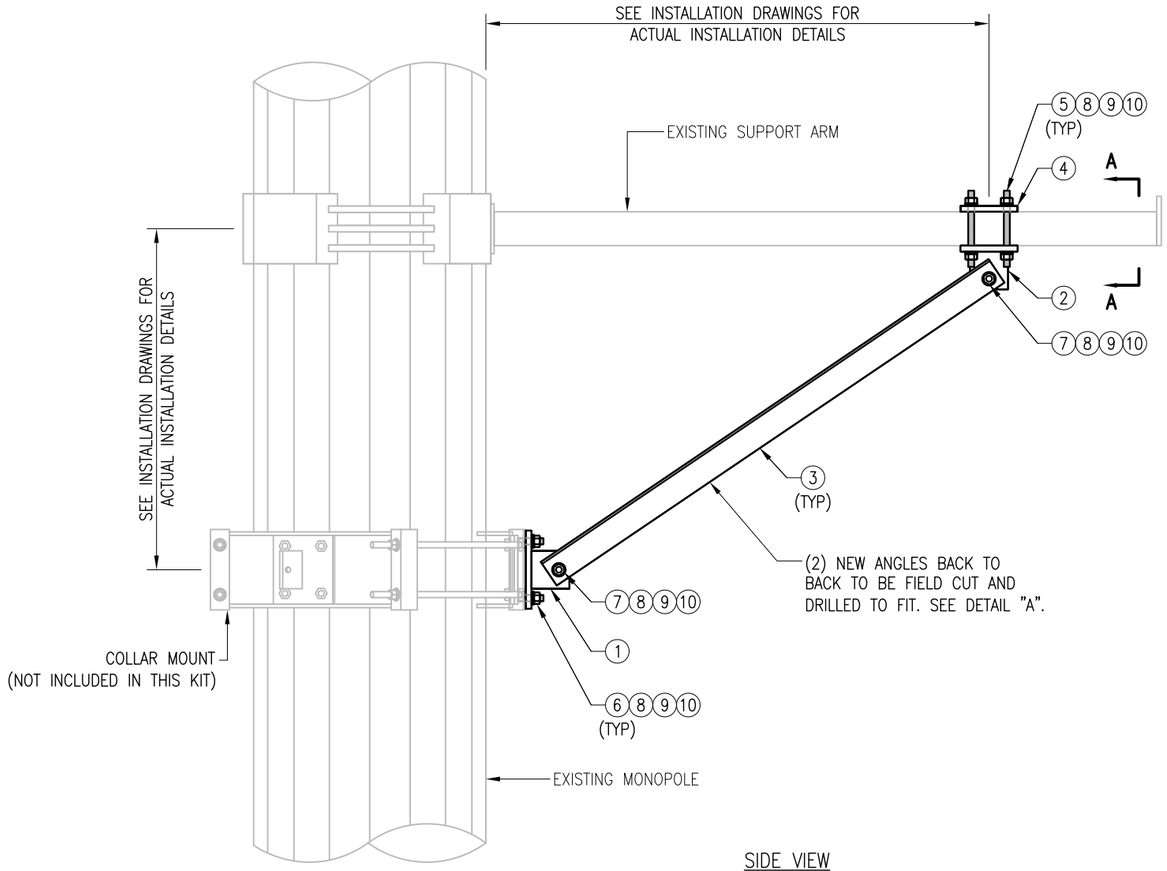
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	08/04/21

SHEET TITLE:
VZWSMART STANDARD PIPE

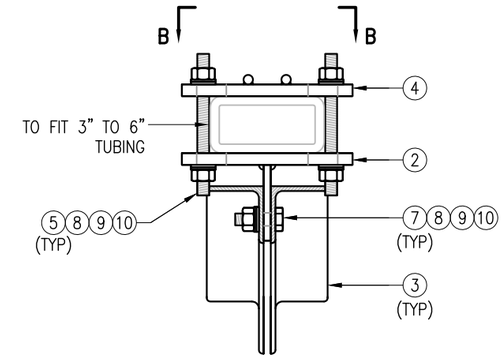
SHEET NUMBER: VZWSMART-PIPE

REV #: 0

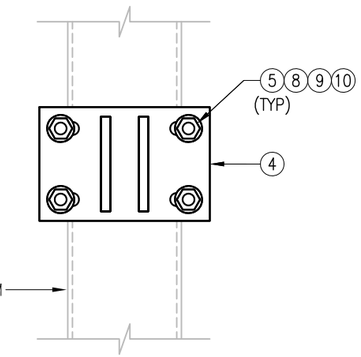
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



SIDE VIEW
KICKER KIT

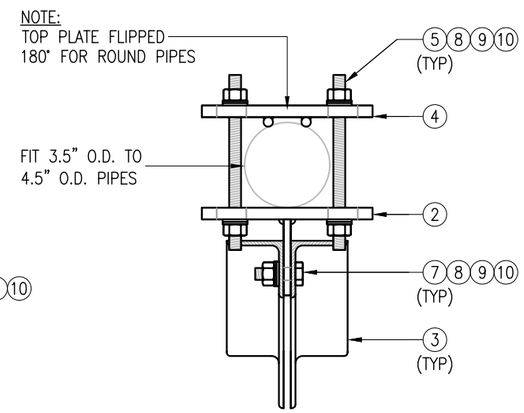


SECTION "A–A"
RECT. HSS MOUNTING

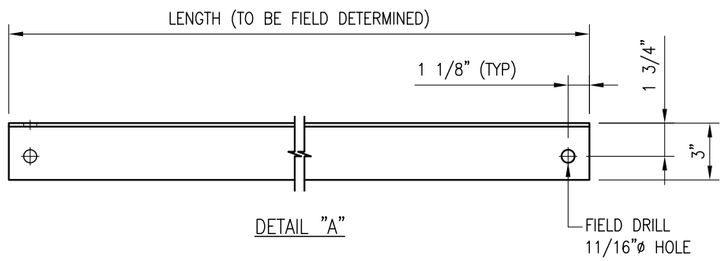


SECTION "B–B"

NOTE:
TOP PLATE FLIPPED 180° FOR ROUND PIPES



SECTION "A–A"
ROUND PIPE MOUNTING



DETAIL "A"

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

VZWSMART–PLK5 (KICKER KIT)

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

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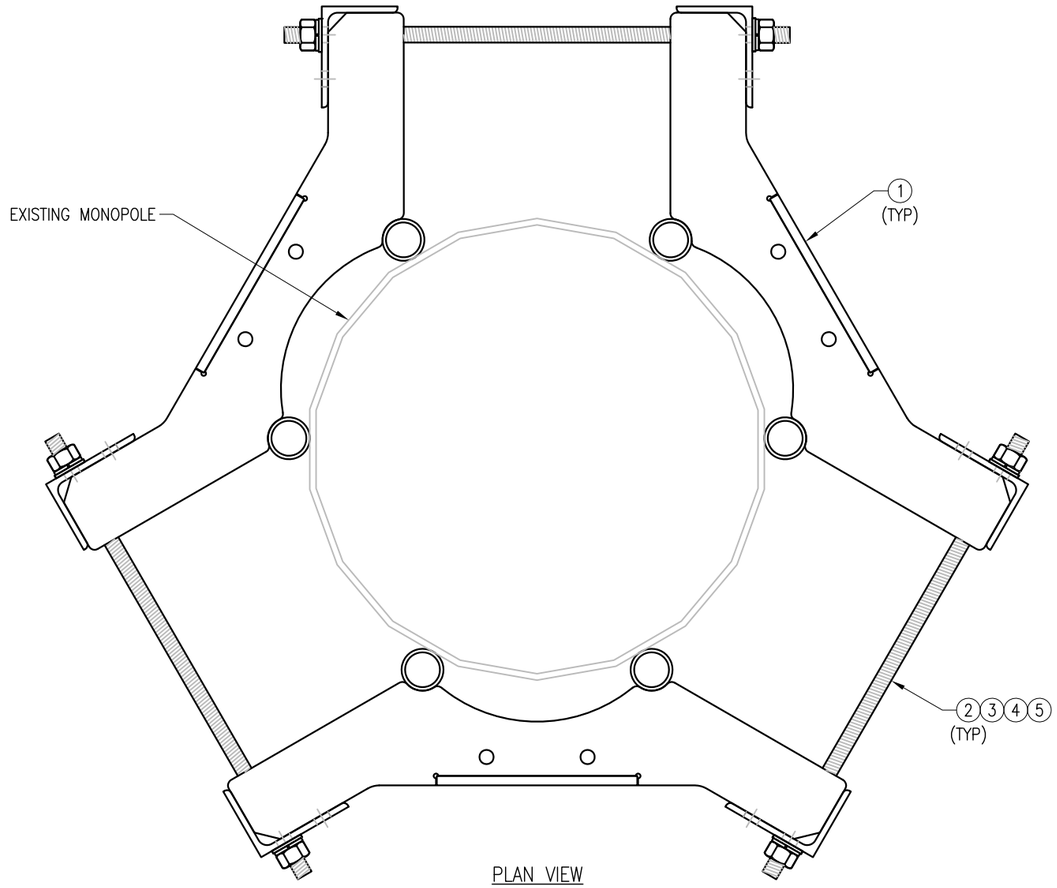
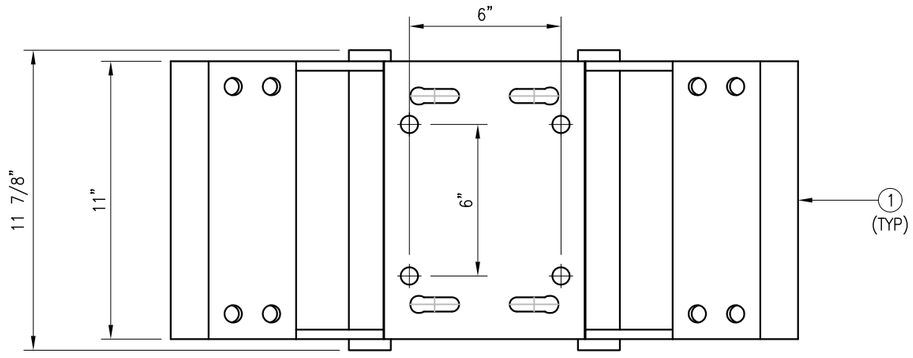
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	MN	05/08/20

SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5
REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

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

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

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

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

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0

Exhibit D

Structural Analysis Report

Date: **June 16, 2022**

MORRISON HERSHFIELD

Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 397-8500

Subject:	**Structural Analysis Report**	
Carrier Designation:	***Verizon Wireless* Co-Locate**	
	Site Number:	468052
	Site Name:	W Greenwich CT
Crown Castle Designation:	**BU Number:**	841290
	Site Name:	Greenwich North
	JDE Job Number:	721830
	Work Order Number:	2128354
	Order Number:	621841 Rev. 0
Engineering Firm Designation:	**Morrison Hershfield Project Number:** CN9-710R1 / 2200039	
Site Data:	**363 Riversville Road, Greenwich, Fairfield County, CT 06831** **Latitude *41° 3' 58.6"*, Longitude *-73° 40' 17.4"*** **160 Foot – EEI Monopole Tower**	

Morrison Hershfield 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 - 65.0%**

This analysis utilizes an ultimate 3-second gust wind speed of 116 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

STATE OF CONNECTICUT
G. LANCE COOKE
No. 28133
LICENSED PROFESSIONAL ENGINEER

G. Lance Cooke, P.E. (CT Licence No.PEN.0028133)
Senior Engineer

Digitally signed by G. Lance Cooke
Date: 2022.06.16 09:13:41-07'00'

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 160 ft monopole tower designed by Engineered Endeavors, Inc.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	116 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1 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)
140.0	141.0	6	commscope	JAHH-65B-R3B	8	1-5/8
		3	samsung telecommunications	CBRS w/ Mount Pipe		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		2	commscope	RC2DC-3315-PF-48		
		3	commscope	TD-850AB-LTE15-43		
		3	commscope	CBC78T-DS-43-2X		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
	140.0	1	-	Kicker Kit [#VZWSMART-PLK5]		
		2	-	OVP Pipe [#VZWSMART-P40-238x048		
		3	-	Side by Side Mounting Kit		
		1	-	Platform Mount [LP 602-1]		

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)
160.0	163.0	3	ericsson	AIR 32 B2A/B66AA w/ Mount Pipe	6 3	1-5/8 1-3/8
		3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		3	rfs/celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	ericsson	RRUS 4415 B25		
		3	commscope	SDX1926Q-43		
		3	rfs/celwave	ATMAA1412D-1A20		
	160.0	1	-	Platform Mount [LP 602-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
152.0	152.0	3	ericsson	RRUS 11	-	-
		3	ericsson	RRUS 32 B2		
		1	-	Side Arm Mount [SO 102-3]		
150.0	152.0	3	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe	12 4 2	1-5/8 3/4 3/8
		3	quintel technology	QS66512-2 w/ Mount Pipe		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		3	ericsson	RADIO 4426		
		3	ericsson	RRUS 32		
		3	kaelus	DBC0061F1V51-2		
		6	powerwave technologies	LGP21401		
		1	raycap	DC6-48-60-18-8C		
		1	raycap	DC6-48-60-18-8F		
	150.0	1	-	Platform Mount [LP 602-1]		
132.0	132.0	3	jma wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2
		3	fujitsu	TA08025-B604		
		3	fujitsu	TA08025-B605		
		1	raycap	RDIDC-9181-PF-48		
		1	-	Commscope MC-PK8-DSH		
120.0	120.0	3	rfs/celwave	APXVSPP18-C-A20 w/ Mount Pipe	3	1-1/4
		3	rfs/celwave	APXVTM14-ALU-I20 w/ Mount Pipe		
		3	alcatel lucent	TD-RRH8X20-25		
		1	-	Platform Mount [LP 602-1]		
119.0	119.0	3	alcatel lucent	1900MHZ RRH	-	-
		3	alcatel lucent	800MHZ RRH		
		1	-	Side Arm Mount [SO 102-3]		
72.0	73.0	2	gps	GPS_A	3	1/2
	72.0	1	-	Side Arm Mount [SO 601-1]		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-TOWER MANUFACTURER DRAWINGS	5164738	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	5121536	CCISITES
4-GEOTECHNICAL REPORTS	5121535	CCISITES

3.1) Analysis Method

tnxTower (version 8.1.1.0), 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.

3.2) Assumptions

1) 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. Morrison Hershfield 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	160 - 152	Pole	TP30.62x29x0.1875	1	-4.34	1112.47	6.3	Pass
L2	152 - 111.29	Pole	TP38.86x30.62x0.25	2	-23.02	1828.41	37.5	Pass
L3	111.29 - 77.42	Pole	TP45.09x37.263x0.3125	3	-30.74	2653.22	50.4	Pass
L4	77.42 - 36.46	Pole	TP52.62x43.2359x0.4375	4	-44.79	4330.74	44.6	Pass
L5	36.46 - 0	Pole	TP59x50.3353x0.5	5	-64.37	5702.67	45.2	Pass
							Summary	
						Pole (L3)	50.4	Pass
						Rating =	50.4	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Bolts	152.0	8.0	Pass
1	Flange Plate		6.8	Pass
1	Anchor Rods	0	41.2	Pass
1	Base Plate		48.9	Pass
1	Base Foundation (Structure)	0	65.0	Pass
1	Base Foundation (Soil Interaction)		43.6	Pass

Structure Rating (max from all components) =	65.0%*

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.

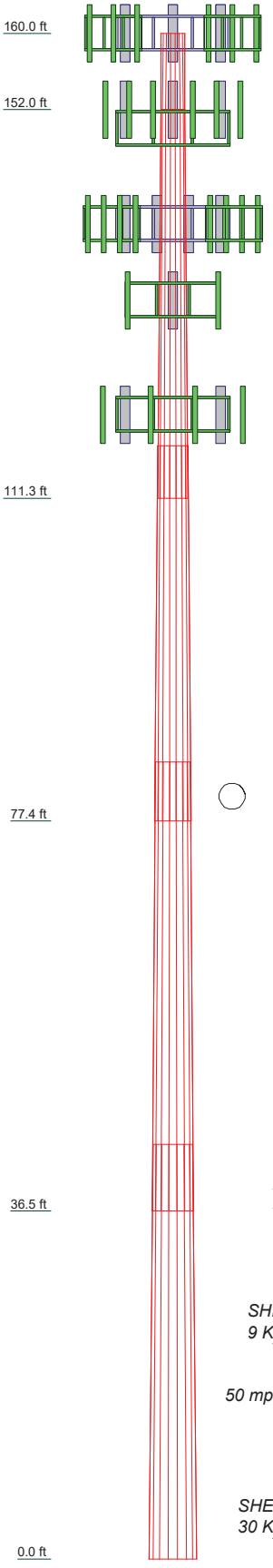
4.1) Recommendations

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	8.00	18	0.1875		29.0000	30.6200		0.5
2	40.71	18	0.2500	5.42	30.6200	38.8600		3.8
3	39.29	18	0.3125	6.17	37.2630	45.0900		5.4
4	47.13	18	0.4375	7.08	43.2359	52.6200		10.6
5	43.54	18	0.5000		50.3353	59.0000		12.7
							A572-65	33.0



ALL REACTIONS ARE FACTORED

AXIAL 88 K

SHEAR 9 K — *MOMENT 1018 kip-ft*

TORQUE 0 kip-ft
50 mph WIND - 1.0000 in ICE

AXIAL 64 K

SHEAR 30 K — *MOMENT 3625 kip-ft*

TORQUE 1 kip-ft
REACTIONS - 116 mph WIND

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 116 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.00 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 0.00 ft
8. TOWER RATING: 50.4%

Consulting Engineers

Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
Phone: (770) 397-8500
FAX: (770) 397-8501

Job: ***CN9-710R1 / 2200039***			
Project: ***841290 / Greenwich North***			
Client: Crown Castle USA	Drawn by: NN	App'd:	
Code: TIA-222-H	Date: 06/16/22	Scale: NTS	
Path: C:\Users\NNaidu\Desktop\Daily Jobs\Reviews\CN9-710R1\IR+FR\CN9-710R1_BU_841290_WO_2026202.dri		Dwg No. E-1	

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 Fairfield County, Connecticut.
- Tower base elevation above sea level: 223.00 ft.
- Basic wind speed of 116 mph.
- Risk Category II.
- Exposure Category B.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- 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*	*Section Length*	*Splice Length*	*Number of Sides*	*Top Diameter*	*Bottom Diameter*	*Wall Thickness*	*Bend Radius*	*Pole Grade*
	ft	*ft*	*ft*		*in*	*in*	*in*	*in*	
L1	160.00-152.00	8.00	0.00	18	29.0000	30.6200	0.1875	0.7500	A572-65 (65 ksi)
L2	152.00-111.29	40.71	5.42	18	30.6200	38.8600	0.2500	1.0000	A572-65

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
L3	111.29-77.42	39.29	6.17	18	37.2630	45.0900	0.3125	1.2500	(65 ksi) A572-65 (65 ksi)
L4	77.42-36.46	47.13	7.08	18	43.2359	52.6200	0.4375	1.7500	A572-65 (65 ksi)
L5	36.46-0.00	43.54		18	50.3353	59.0000	0.5000	2.0000	A572-65 (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	29.4184	17.1470	1798.4090	10.2284	14.7320	122.0750	3599.1844	8.5751	4.7740	25.461
	31.0634	18.1111	2119.1346	10.8035	15.5550	136.2353	4241.0576	9.0573	5.0591	26.982
L2	31.0538	24.0986	2808.1400	10.7814	15.5550	180.5302	5619.9750	12.0516	4.9491	19.796
	39.4209	30.6370	5770.1059	13.7066	19.7409	292.2922	11547.8043	15.3214	6.3994	25.597
L3	38.8860	36.6502	6321.9884	13.1174	18.9296	333.9740	12652.2955	18.3286	6.0083	19.226
	45.7374	44.4137	11250.5543	15.8960	22.9057	491.1679	22515.9125	22.2111	7.3858	23.635
L4	45.0828	59.4309	13753.2027	15.1934	21.9638	626.1754	27524.5022	29.7211	6.8395	15.633
	53.3643	72.4619	24928.5533	18.5248	26.7310	932.5723	49889.9082	36.2378	8.4911	19.408
L5	52.4654	79.0886	24815.6294	17.6915	25.5703	970.4854	49663.9118	39.5518	7.9790	15.958
	59.8330	92.8395	40140.4258	20.7675	29.9720	1339.2642	80333.6694	46.4286	9.5040	19.008

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 160.00-152.00				1	1	1			
L2 152.00-111.29				1	1	1			
L3 111.29-77.42				1	1	1			
L4 77.42-36.46				1	1	1			
L5 36.46-0.00				1	1	1			

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 plf
***										
***										
Safety Line 3/8	B	No	Surface Ar (CaAa)	160.00 - 6.00	1	1	0.000 0.000	0.3750		0.22
5/8 rod/step	B	No	Surface Ar (CaAa)	160.00 - 6.00	1	1	0.000 0.000	0.2000		0.27
***										
***										
***										

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 plf
***									
***									
***									
LDF7-50A(1-5/8)	A	No	No	Inside Pole	160.00 - 3.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
HCS 6X12 6AWG(1-3/8)	A	No	No	Inside Pole	160.00 - 3.00	3	No Ice	0.00	1.70
							1/2" Ice	0.00	1.70
							1" Ice	0.00	1.70
***									
LDF7-50A(1-5/8)	A	No	No	Inside Pole	150.00 - 6.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
FB-L98B-034-XXX(3/8)	A	No	No	Inside Pole	150.00 - 6.00	2	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
WR-VG86ST-BRD(3/4)	A	No	No	Inside Pole	150.00 - 6.00	4	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
CONDUIT (2)	A	No	No	Inside Pole	150.00 - 6.00	2	No Ice	0.00	0.36
							1/2" Ice	0.00	0.36
							1" Ice	0.00	0.36
***									
LDF7-50A(1-5/8)	A	No	No	Inside Pole	140.00 - 6.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
HB158-1-08U8-S8J18(1-5/8)	A	No	No	Inside Pole	140.00 - 6.00	2	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
***									
CU12PSM9P6XXX (1-1/2)	A	No	No	Inside Pole	132.00 - 0.00	1	No Ice	0.00	2.35
							1/2" Ice	0.00	2.35
							1" Ice	0.00	2.35
***									
HB114-1-05U3-S3J(1-1/4)	C	No	No	Inside Pole	120.00 - 0.00	3	No Ice	0.00	0.90
							1/2" Ice	0.00	0.90
							1" Ice	0.00	0.90
***									
LDF4-50A(1/2)	C	No	No	Inside Pole	72.00 - 0.00	3	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
***									
***									

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	160.00-152.00	A	0.000	0.000	0.000	0.000	0.08
		B	0.000	0.000	0.460	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
L2	152.00-111.29	A	0.000	0.000	0.000	0.000	1.18
		B	0.000	0.000	2.341	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.02
L3	111.29-77.42	A	0.000	0.000	0.000	0.000	1.11
		B	0.000	0.000	1.948	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.09
L4	77.42-36.46	A	0.000	0.000	0.000	0.000	1.35
		B	0.000	0.000	2.355	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.13
L5	36.46-0.00	A	0.000	0.000	0.000	0.000	1.05

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	1.751	0.000	0.02
		C	0.000	0.000	0.000	0.000	0.11

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	160.00-152.00	A	0.993	0.000	0.000	0.000	0.000	0.08
		B		0.000	0.000	3.637	0.000	0.03
		C		0.000	0.000	0.000	0.000	0.00
L2	152.00-111.29	A	0.976	0.000	0.000	0.000	0.000	1.18
		B		0.000	0.000	18.229	0.000	0.14
		C		0.000	0.000	0.000	0.000	0.02
L3	111.29-77.42	A	0.944	0.000	0.000	0.000	0.000	1.11
		B		0.000	0.000	15.166	0.000	0.12
		C		0.000	0.000	0.000	0.000	0.09
L4	77.42-36.46	A	0.898	0.000	0.000	0.000	0.000	1.35
		B		0.000	0.000	17.820	0.000	0.14
		C		0.000	0.000	0.000	0.000	0.13
L5	36.46-0.00	A	0.799	0.000	0.000	0.000	0.000	1.05
		B		0.000	0.000	12.688	0.000	0.09
		C		0.000	0.000	0.000	0.000	0.11

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	160.00-152.00	0.3953	-0.2283	1.6114	-0.9304
L2	152.00-111.29	0.3965	-0.2289	1.6302	-0.9412
L3	111.29-77.42	0.3977	-0.2296	1.6733	-0.9661
L4	77.42-36.46	0.3986	-0.2301	1.6615	-0.9593
L5	36.46-0.00	0.3308	-0.1910	1.3552	-0.7824

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
L1	3	Safety Line 3/8	152.00 - 160.00	1.0000	1.0000
L1	4	5/8 rod/step	152.00 - 160.00	1.0000	1.0000
L2	3	Safety Line 3/8	111.29 - 152.00	1.0000	1.0000
L2	4	5/8 rod/step	111.29 - 152.00	1.0000	1.0000
L3	3	Safety Line 3/8	77.42 - 111.29	1.0000	1.0000
L3	4	5/8 rod/step	77.42 - 111.29	1.0000	1.0000
L4	3	Safety Line 3/8	36.46 - 77.42	1.0000	1.0000
L4	4	5/8 rod/step	36.46 - 77.42	1.0000	1.0000
L5	3	Safety Line 3/8	6.00 - 36.46	1.0000	1.0000
L5	4	5/8 rod/step	6.00 - 36.46	1.0000	1.0000

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
*******									
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	5.19 5.59 6.02	2.71 3.04 3.38	0.13 0.17 0.23
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	14.69 15.46 16.23	6.87 7.55 8.25	0.19 0.31 0.46
AIR 32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48	3.15 3.49 3.84	0.19 0.25 0.32
AIR 32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48	3.15 3.49 3.84	0.19 0.25 0.32
AIR 32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	3.76 4.12 4.48	3.15 3.49 3.84	0.19 0.25 0.32
SDX1926Q-43	A	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	0.24 0.31 0.38	0.10 0.14 0.19	0.01 0.01 0.01
SDX1926Q-43	B	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	0.24 0.31 0.38	0.10 0.14 0.19	0.01 0.01 0.01
SDX1926Q-43	C	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	0.24 0.31 0.38	0.10 0.14 0.19	0.01 0.01 0.01
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00 0.00 3.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	1.97 2.15 2.33	1.59 1.75 1.92	0.07 0.09 0.12
RRUS 4415 B25	A	From Leg	4.00	0.0000	160.00	No Ice	1.64	0.68	0.04

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
			0.00			1/2"	1.80	0.79	0.06
			3.00			Ice	1.97	0.91	0.07
						1" Ice			
RRUS 4415 B25	B	From Leg	4.00	0.0000	160.00	No Ice	1.64	0.68	0.04
			0.00			1/2"	1.80	0.79	0.06
			3.00			Ice	1.97	0.91	0.07
						1" Ice			
RRUS 4415 B25	C	From Leg	4.00	0.0000	160.00	No Ice	1.64	0.68	0.04
			0.00			1/2"	1.80	0.79	0.06
			3.00			Ice	1.97	0.91	0.07
						1" Ice			
ATMAA1412D-1A20	A	From Leg	4.00	0.0000	160.00	No Ice	0.41	1.00	0.01
			0.00			1/2"	0.50	1.13	0.02
			3.00			Ice	0.59	1.26	0.03
						1" Ice			
ATMAA1412D-1A20	B	From Leg	4.00	0.0000	160.00	No Ice	0.41	1.00	0.01
			0.00			1/2"	0.50	1.13	0.02
			3.00			Ice	0.59	1.26	0.03
						1" Ice			
ATMAA1412D-1A20	C	From Leg	4.00	0.0000	160.00	No Ice	0.41	1.00	0.01
			0.00			1/2"	0.50	1.13	0.02
			3.00			Ice	0.59	1.26	0.03
						1" Ice			
6' x 2" Mount Pipe	A	From Leg	4.00	0.0000	160.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice			
6' x 2" Mount Pipe	B	From Leg	4.00	0.0000	160.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice			
6' x 2" Mount Pipe	C	From Leg	4.00	0.0000	160.00	No Ice	1.43	1.43	0.02
			0.00			1/2"	1.92	1.92	0.03
			0.00			Ice	2.29	2.29	0.05
						1" Ice			
Platform Mount [LP 602-1]	C	None		0.0000	160.00	No Ice	31.07	31.07	1.34
						1/2"	34.82	34.82	1.97
						Ice	38.48	38.48	2.67
						1" Ice			
******									
RRUS 11	A	From Leg	2.00	0.0000	152.00	No Ice	2.78	1.19	0.05
			0.00			1/2"	2.99	1.33	0.07
			0.00			Ice	3.21	1.49	0.09
						1" Ice			
RRUS 11	B	From Leg	2.00	0.0000	152.00	No Ice	2.78	1.19	0.05
			0.00			1/2"	2.99	1.33	0.07
			0.00			Ice	3.21	1.49	0.09
						1" Ice			
RRUS 11	C	From Leg	2.00	0.0000	152.00	No Ice	2.78	1.19	0.05
			0.00			1/2"	2.99	1.33	0.07
			0.00			Ice	3.21	1.49	0.09
						1" Ice			
RRUS 32 B2	A	From Leg	2.00	0.0000	152.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			0.00			Ice	3.18	2.05	0.10
						1" Ice			
RRUS 32 B2	B	From Leg	2.00	0.0000	152.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			0.00			Ice	3.18	2.05	0.10
						1" Ice			
RRUS 32 B2	C	From Leg	2.00	0.0000	152.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			0.00			Ice	3.18	2.05	0.10
						1" Ice			
(2) 6' x 2" Mount Pipe	A	From Leg	2.00	0.0000	152.00	No Ice	1.43	1.43	0.02

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
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
(2) 6' x 2" Mount Pipe	B	From Leg	2.00	0.0000	152.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
(2) 6' x 2" Mount Pipe	C	From Leg	2.00	0.0000	152.00	No Ice	1.43	1.43	0.02
			0.00			1/2" Ice	1.92	1.92	0.03
			0.00			1" Ice	2.29	2.29	0.05
Side Arm Mount [SO 102-3]	C	None		0.0000	152.00	No Ice	3.60	3.60	0.07
						1/2" Ice	4.18	4.18	0.11
						1" Ice	4.75	4.75	0.14
******									
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	4.00	0.0000	150.00	No Ice	9.22	6.25	0.07
			0.00			1/2" Ice	9.98	6.96	0.14
			2.00			1" Ice	10.76	7.70	0.22
HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	4.00	0.0000	150.00	No Ice	9.22	6.25	0.07
			0.00			1/2" Ice	9.98	6.96	0.14
			2.00			1" Ice	10.76	7.70	0.22
HPA-65R-BUU-H6 w/ Mount Pipe	C	From Leg	4.00	0.0000	150.00	No Ice	9.22	6.25	0.07
			0.00			1/2" Ice	9.98	6.96	0.14
			2.00			1" Ice	10.76	7.70	0.22
7770.00 w/ Mount Pipe	A	From Leg	4.00	0.0000	150.00	No Ice	5.75	4.25	0.06
			0.00			1/2" Ice	6.18	5.01	0.10
			2.00			1" Ice	6.61	5.71	0.16
7770.00 w/ Mount Pipe	B	From Leg	4.00	0.0000	150.00	No Ice	5.75	4.25	0.06
			0.00			1/2" Ice	6.18	5.01	0.10
			2.00			1" Ice	6.61	5.71	0.16
7770.00 w/ Mount Pipe	C	From Leg	4.00	0.0000	150.00	No Ice	5.75	4.25	0.06
			0.00			1/2" Ice	6.18	5.01	0.10
			2.00			1" Ice	6.61	5.71	0.16
QS66512-2 w/ Mount Pipe	A	From Leg	4.00	0.0000	150.00	No Ice	4.04	4.18	0.14
			0.00			1/2" Ice	4.42	4.57	0.21
			2.00			1" Ice	4.82	4.97	0.29
QS66512-2 w/ Mount Pipe	B	From Leg	4.00	0.0000	150.00	No Ice	4.04	4.18	0.14
			0.00			1/2" Ice	4.42	4.57	0.21
			2.00			1" Ice	4.82	4.97	0.29
QS66512-2 w/ Mount Pipe	C	From Leg	4.00	0.0000	150.00	No Ice	4.04	4.18	0.14
			0.00			1/2" Ice	4.42	4.57	0.21
			2.00			1" Ice	4.82	4.97	0.29
RRUS 32	A	From Leg	4.00	0.0000	150.00	No Ice	2.86	1.78	0.06
			0.00			1/2" Ice	3.08	1.97	0.08
			2.00			1" Ice	3.32	2.17	0.10
RRUS 32	B	From Leg	4.00	0.0000	150.00	No Ice	2.86	1.78	0.06
			0.00			1/2" Ice	3.08	1.97	0.08
			2.00			1" Ice	3.32	2.17	0.10
RRUS 32	C	From Leg	4.00	0.0000	150.00	No Ice	2.86	1.78	0.06
			0.00			1/2" Ice	3.08	1.97	0.08
			2.00			1" Ice	3.32	2.17	0.10
RADIO 4426	A	From Leg	4.00	0.0000	150.00	No Ice	1.64	0.73	0.05

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
			0.00			1/2"	1.80	0.84	0.06
			2.00			Ice	1.97	0.97	0.08
						1" Ice			
RADIO 4426	B	From Leg	4.00	0.0000	150.00	No Ice	1.64	0.73	0.05
			0.00			1/2"	1.80	0.84	0.06
			2.00			Ice	1.97	0.97	0.08
						1" Ice			
RADIO 4426	C	From Leg	4.00	0.0000	150.00	No Ice	1.64	0.73	0.05
			0.00			1/2"	1.80	0.84	0.06
			2.00			Ice	1.97	0.97	0.08
						1" Ice			
DBC0061F1V51-2	A	From Leg	4.00	0.0000	150.00	No Ice	0.43	0.41	0.03
			0.00			1/2"	0.51	0.50	0.03
			2.00			Ice	0.61	0.59	0.04
						1" Ice			
DBC0061F1V51-2	B	From Leg	4.00	0.0000	150.00	No Ice	0.43	0.41	0.03
			0.00			1/2"	0.51	0.50	0.03
			2.00			Ice	0.61	0.59	0.04
						1" Ice			
DBC0061F1V51-2	C	From Leg	4.00	0.0000	150.00	No Ice	0.43	0.41	0.03
			0.00			1/2"	0.51	0.50	0.03
			2.00			Ice	0.61	0.59	0.04
						1" Ice			
(2) LGP21401	A	From Leg	4.00	0.0000	150.00	No Ice	1.10	0.21	0.01
			0.00			1/2"	1.24	0.27	0.02
			2.00			Ice	1.38	0.35	0.03
						1" Ice			
(2) LGP21401	B	From Leg	4.00	0.0000	150.00	No Ice	1.10	0.21	0.01
			0.00			1/2"	1.24	0.27	0.02
			2.00			Ice	1.38	0.35	0.03
						1" Ice			
(2) LGP21401	C	From Leg	4.00	0.0000	150.00	No Ice	1.10	0.21	0.01
			0.00			1/2"	1.24	0.27	0.02
			2.00			Ice	1.38	0.35	0.03
						1" Ice			
DC6-48-60-18-8F	A	From Leg	4.00	0.0000	150.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			2.00			Ice	1.64	1.64	0.06
						1" Ice			
DC6-48-60-18-8C	B	From Leg	4.00	0.0000	150.00	No Ice	2.74	2.74	0.03
			0.00			1/2"	2.96	2.96	0.05
			2.00			Ice	3.20	3.20	0.08
						1" Ice			
Platform Mount [LP 602-1]	C	None		0.0000	150.00	No Ice	31.07	31.07	1.34
						1/2"	34.82	34.82	1.97
						Ice	38.48	38.48	2.67
						1" Ice			
******									
(2) JAHH-65B-R3B	A	From Leg	4.00	0.0000	140.00	No Ice	5.29	3.05	0.06
			0.00			1/2"	5.75	3.48	0.12
			1.00			Ice	6.22	3.93	0.19
						1" Ice			
(2) JAHH-65B-R3B	B	From Leg	4.00	0.0000	140.00	No Ice	5.29	3.05	0.06
			0.00			1/2"	5.75	3.48	0.12
			1.00			Ice	6.22	3.93	0.19
						1" Ice			
(2) JAHH-65B-R3B	C	From Leg	4.00	0.0000	140.00	No Ice	5.29	3.05	0.06
			0.00			1/2"	5.75	3.48	0.12
			1.00			Ice	6.22	3.93	0.19
						1" Ice			
CBRS w/ Mount Pipe	A	From Leg	4.00	0.0000	140.00	No Ice	1.45	0.99	0.03
			0.00			1/2"	1.67	1.18	0.05
			1.00			Ice	1.90	1.39	0.07
						1" Ice			
CBRS w/ Mount Pipe	B	From Leg	4.00	0.0000	140.00	No Ice	1.45	0.99	0.03

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
			0.00			1/2" Ice	1.67	1.18	0.05
			1.00			1" Ice	1.90	1.39	0.07
CBRS w/ Mount Pipe	C	From Leg	4.00	0.0000	140.00	No Ice	1.45	0.99	0.03
			0.00			1/2" Ice	1.67	1.18	0.05
			1.00			1" Ice	1.90	1.39	0.07
RC2DC-3315-PF-48	A	From Leg	4.00	0.0000	140.00	No Ice	3.79	2.51	0.03
			0.00			1/2" Ice	4.04	2.72	0.06
			1.00			1" Ice	4.30	2.94	0.10
RC2DC-3315-PF-48	C	From Leg	4.00	0.0000	140.00	No Ice	3.79	2.51	0.03
			0.00			1/2" Ice	4.04	2.72	0.06
			1.00			1" Ice	4.30	2.94	0.10
(3) RFV01U-D1A	A	From Leg	4.00	0.0000	140.00	No Ice	1.88	1.25	0.08
			0.00			1/2" Ice	2.05	1.39	0.10
			1.00			1" Ice	2.22	1.54	0.12
RFV01U-D2A	A	From Leg	4.00	0.0000	140.00	No Ice	1.88	1.01	0.07
			0.00			1/2" Ice	2.05	1.14	0.09
			1.00			1" Ice	2.22	1.28	0.11
(2) RFV01U-D2A	B	From Leg	4.00	0.0000	140.00	No Ice	1.88	1.01	0.07
			0.00			1/2" Ice	2.05	1.14	0.09
			1.00			1" Ice	2.22	1.28	0.11
Side by Side Mounting Kit	A	From Leg	4.00	0.0000	140.00	No Ice	2.38	2.38	0.04
			0.00			1/2" Ice	3.40	3.40	0.05
			0.00			1" Ice	4.45	4.45	0.08
Side by Side Mounting Kit	B	From Leg	4.00	0.0000	140.00	No Ice	2.38	2.38	0.04
			0.00			1/2" Ice	3.40	3.40	0.05
			0.00			1" Ice	4.45	4.45	0.08
Side by Side Mounting Kit	C	From Leg	4.00	0.0000	140.00	No Ice	2.38	2.38	0.04
			0.00			1/2" Ice	3.40	3.40	0.05
			0.00			1" Ice	4.45	4.45	0.08
8' x 2" Mount Pipe	A	From Leg	4.00	0.0000	140.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
8' x 2" Mount Pipe	B	From Leg	4.00	0.0000	140.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
8' x 2" Mount Pipe	C	From Leg	4.00	0.0000	140.00	No Ice	1.90	1.90	0.03
			0.00			1/2" Ice	2.73	2.73	0.04
			0.00			1" Ice	3.40	3.40	0.06
Platform Mount [LP 602-1]	C	None		0.0000	140.00	No Ice	31.07	31.07	1.34
						1/2" Ice	34.82	34.82	1.97
						1" Ice	38.48	38.48	2.67
***									
MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	140.00	No Ice	4.91	2.68	0.10
			0.00			1/2" Ice	5.26	3.14	0.14
			1.00			1" Ice	5.61	3.62	0.18
MT6407-77A w/ Mount Pipe	B	From Leg	4.00	0.0000	140.00	No Ice	4.91	2.68	0.10
			0.00			1/2" Ice	5.26	3.14	0.14
			1.00			1" Ice	5.61	3.62	0.18
MT6407-77A w/ Mount	C	From Leg	4.00	0.0000	140.00	No Ice	4.91	2.68	0.10

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
Pipe			0.00			1/2"	5.26	3.14	0.14
			1.00			Ice	5.61	3.62	0.18
						1" Ice			
CBC78T-DS-43-2X	A	From Leg	4.00	0.0000	140.00	No Ice	0.37	0.51	0.02
			0.00			1/2"	0.45	0.60	0.03
			1.00			Ice	0.53	0.70	0.04
						1" Ice			
(2) CBC78T-DS-43-2X	B	From Leg	4.00	0.0000	140.00	No Ice	0.37	0.51	0.02
			0.00			1/2"	0.45	0.60	0.03
			1.00			Ice	0.53	0.70	0.04
						1" Ice			
TD-850AB-LTE15-43	A	From Leg	4.00	0.0000	140.00	No Ice	1.80	0.68	0.05
			0.00			1/2"	1.97	0.80	0.06
			1.00			Ice	2.14	0.92	0.08
						1" Ice			
TD-850AB-LTE15-43	B	From Leg	4.00	0.0000	140.00	No Ice	1.80	0.68	0.05
			0.00			1/2"	1.97	0.80	0.06
			1.00			Ice	2.14	0.92	0.08
						1" Ice			
TD-850AB-LTE15-43	C	From Leg	4.00	0.0000	140.00	No Ice	1.80	0.68	0.05
			0.00			1/2"	1.97	0.80	0.06
			1.00			Ice	2.14	0.92	0.08
						1" Ice			
OVP Pipe [#VZWSMART-P40-238x048	B	From Leg	1.00	0.0000	140.00	No Ice	0.79	0.79	0.03
			0.00			1/2"	1.03	1.03	0.04
			0.00			Ice	1.28	1.28	0.04
						1" Ice			
OVP Pipe [#VZWSMART-P40-238x048	C	From Leg	1.00	0.0000	140.00	No Ice	0.79	0.79	0.03
			0.00			1/2"	1.03	1.03	0.04
			0.00			Ice	1.28	1.28	0.04
						1" Ice			
Kicker Kit [#VZWSMART-PLK5]	C	None		0.0000	140.00	No Ice	11.84	11.84	0.29
						1/2"	16.96	16.96	0.38
						Ice	22.08	22.08	0.47
						1" Ice			
***									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00	0.0000	132.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice			
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00	0.0000	132.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice			
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00	0.0000	132.00	No Ice	8.01	4.23	0.11
			0.00			1/2"	8.52	4.69	0.19
			0.00			Ice	9.04	5.16	0.29
						1" Ice			
TA08025-B604	A	From Leg	4.00	0.0000	132.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice			
TA08025-B604	B	From Leg	4.00	0.0000	132.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice			
TA08025-B604	C	From Leg	4.00	0.0000	132.00	No Ice	1.96	0.98	0.06
			0.00			1/2"	2.14	1.11	0.08
			0.00			Ice	2.32	1.25	0.10
						1" Ice			
TA08025-B605	A	From Leg	4.00	0.0000	132.00	No Ice	1.96	1.13	0.08
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice			
TA08025-B605	B	From Leg	4.00	0.0000	132.00	No Ice	1.96	1.13	0.08

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
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice			
TA08025-B605	C	From Leg	4.00	0.0000	132.00	No Ice	1.96	1.13	0.08
			0.00			1/2"	2.14	1.27	0.09
			0.00			Ice	2.32	1.41	0.11
						1" Ice			
RDIDC-9181-PF-48	B	From Leg	4.00	0.0000	132.00	No Ice	2.01	1.17	0.02
			0.00			1/2"	2.19	1.31	0.04
			0.00			Ice	2.37	1.46	0.06
						1" Ice			
(2) 8' x 2" Mount Pipe	A	From Leg	4.00	0.0000	132.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice			
(2) 8' x 2" Mount Pipe	B	From Leg	4.00	0.0000	132.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice			
(2) 8' x 2" Mount Pipe	C	From Leg	4.00	0.0000	132.00	No Ice	1.90	1.90	0.03
			0.00			1/2"	2.73	2.73	0.04
			0.00			Ice	3.40	3.40	0.06
						1" Ice			
Commscope MC-PK8-DSH	C	None		0.0000	132.00	No Ice	34.24	34.24	1.75
						1/2"	62.95	62.95	2.10
						Ice	91.66	91.66	2.45
						1" Ice			
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APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.00	0.0000	120.00	No Ice	4.09	2.86	0.08
			0.00			1/2"	4.48	3.23	0.13
			0.00			Ice	4.88	3.61	0.19
						1" Ice			
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.00	0.0000	120.00	No Ice	4.09	2.86	0.08
			0.00			1/2"	4.48	3.23	0.13
			0.00			Ice	4.88	3.61	0.19
						1" Ice			
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.00	0.0000	120.00	No Ice	4.09	2.86	0.08
			0.00			1/2"	4.48	3.23	0.13
			0.00			Ice	4.88	3.61	0.19
						1" Ice			
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.00	0.0000	120.00	No Ice	4.60	4.01	0.10
			0.00			1/2"	5.05	4.45	0.16
			0.00			Ice	5.50	4.89	0.23
						1" Ice			
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.00	0.0000	120.00	No Ice	4.60	4.01	0.10
			0.00			1/2"	5.05	4.45	0.16
			0.00			Ice	5.50	4.89	0.23
						1" Ice			
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.00	0.0000	120.00	No Ice	4.60	4.01	0.10
			0.00			1/2"	5.05	4.45	0.16
			0.00			Ice	5.50	4.89	0.23
						1" Ice			
TD-RRH8X20-25	A	From Leg	4.00	0.0000	120.00	No Ice	4.05	1.53	0.07
			0.00			1/2"	4.30	1.71	0.10
			0.00			Ice	4.56	1.90	0.13
						1" Ice			
TD-RRH8X20-25	B	From Leg	4.00	0.0000	120.00	No Ice	4.05	1.53	0.07
			0.00			1/2"	4.30	1.71	0.10
			0.00			Ice	4.56	1.90	0.13
						1" Ice			
TD-RRH8X20-25	C	From Leg	4.00	0.0000	120.00	No Ice	4.05	1.53	0.07
			0.00			1/2"	4.30	1.71	0.10
			0.00			Ice	4.56	1.90	0.13
						1" Ice			
(2) 6' x 2" Mount Pipe	A	From Leg	4.00	0.0000	120.00	No Ice	1.43	1.43	0.02

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
			0.00 0.00			1/2" Ice 1" Ice	1.92 2.29	1.92 2.29	0.03 0.05
(2) 6' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice 1/2" Ice 1" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05
(2) 6' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice 1/2" Ice 1" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05
Platform Mount [LP 602-1]	C	None		0.0000	120.00	No Ice 1/2" Ice 1" Ice	31.07 34.82 38.48	31.07 34.82 38.48	1.34 1.97 2.67
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800MHZ RRH	A	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	2.13 2.32 2.51	1.77 1.95 2.13	0.05 0.07 0.10
800MHZ RRH	B	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	2.13 2.32 2.51	1.77 1.95 2.13	0.05 0.07 0.10
800MHZ RRH	C	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	2.13 2.32 2.51	1.77 1.95 2.13	0.05 0.07 0.10
1900MHZ RRH	A	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	2.49 2.70 2.91	3.26 3.48 3.72	0.04 0.08 0.11
1900MHZ RRH	B	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	2.49 2.70 2.91	3.26 3.48 3.72	0.04 0.08 0.11
1900MHZ RRH	C	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	2.49 2.70 2.91	3.26 3.48 3.72	0.04 0.08 0.11
(2) 4' x 2" Pipe Mount	A	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	0.79 1.03 1.28	0.79 1.03 1.28	0.03 0.04 0.04
(2) 4' x 2" Pipe Mount	B	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	0.79 1.03 1.28	0.79 1.03 1.28	0.03 0.04 0.04
(2) 4' x 2" Pipe Mount	C	From Leg	2.00 0.00 0.00	0.0000	119.00	No Ice 1/2" Ice 1" Ice	0.79 1.03 1.28	0.79 1.03 1.28	0.03 0.04 0.04
Side Arm Mount [SO 102-3]	C	None		0.0000	119.00	No Ice 1/2" Ice 1" Ice	3.60 4.18 4.75	3.60 4.18 4.75	0.07 0.11 0.14
***									
(2) GPS_A	B	From Leg	3.00 0.00 1.00	0.0000	72.00	No Ice 1/2" Ice 1" Ice	0.26 0.32 0.39	0.26 0.32 0.39	0.00 0.00 0.01
Side Arm Mount [SO 601-1]	B	From Leg	1.50 0.00 0.00	0.0000	72.00	No Ice 1/2" Ice 1" Ice	1.04 1.41 1.78	5.32 6.43 7.67	0.16 0.20 0.24

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
*** ********** ********** *********								

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
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	160 - 152	Pole	Max Tension	26	0.00	0.00	-0.00
			Max. Compression	26	-8.16	-0.04	0.03
			Max. Mx	8	-4.35	-43.23	0.01
			Max. My	2	-4.34	-0.01	43.23
			Max. Vy	8	4.75	-43.23	0.01
			Max. Vx	2	-4.75	-0.01	43.23
			Max. Torque	22			0.00
L2	152 - 111.29	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-40.49	-2.00	2.56
			Max. Mx	8	-23.03	-555.50	1.35
			Max. My	2	-23.02	-0.96	557.63
			Max. Vy	8	21.60	-555.50	1.35
			Max. Vx	2	-21.67	-0.96	557.63
			Max. Torque	13			0.79
L3	111.29 - 77.42	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-49.93	-2.22	2.71
			Max. Mx	8	-30.75	-1316.02	0.99
			Max. My	2	-30.74	-0.63	1320.32
			Max. Vy	8	24.26	-1316.02	0.99
			Max. Vx	2	-24.33	-0.63	1320.32
			Max. Torque	13			0.79
L4	77.42 - 36.46	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66.31	-3.32	2.35
			Max. Mx	8	-44.80	-2355.07	1.84
			Max. My	2	-44.79	-2.38	2362.96
			Max. Vy	8	27.43	-2355.07	1.84
			Max. Vx	2	-27.56	-2.38	2362.96
			Max. Torque	3			-1.14
L5	36.46 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-88.28	-3.56	2.49
			Max. Mx	8	-64.37	-3611.69	3.80
			Max. My	2	-64.37	-4.36	3625.19
			Max. Vy	8	30.17	-3611.69	3.80
			Max. Vx	2	-30.30	-4.36	3625.19
			Max. Torque	3			-1.14

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	28	88.28	-4.27	7.41
	Max. H_x	20	64.38	30.14	-0.04
	Max. H_z	2	64.38	-0.04	30.27
	Max. M_x	2	3625.19	-0.04	30.27
	Max. M_z	8	3611.69	-30.14	0.04
	Max. Torsion	15	1.14	0.04	-30.27
	Min. Vert	23	48.29	26.08	15.10
	Min. H_x	8	64.38	-30.14	0.04
	Min. H_z	14	64.38	0.04	-30.27
	Min. M_x	14	-3622.42	0.04	-30.27
	Min. M_z	20	-3607.80	30.14	-0.04
	Min. Torsion	3	-1.14	-0.04	30.27

Tower Mast Reaction Summary

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead Only	53.65	0.00	0.00	-1.08	-1.53	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	64.38	0.04	-30.27	-3625.19	-4.36	1.14
0.9 Dead+1.0 Wind 0 deg - No Ice	48.29	0.04	-30.27	-3587.51	-3.84	1.14
1.2 Dead+1.0 Wind 30 deg - No Ice	64.38	15.11	-26.23	-3140.92	-1808.91	0.88
0.9 Dead+1.0 Wind 30 deg - No Ice	48.29	15.11	-26.23	-3108.23	-1789.80	0.88
1.2 Dead+1.0 Wind 60 deg - No Ice	64.38	26.12	-15.17	-1815.40	-3129.30	0.39
0.9 Dead+1.0 Wind 60 deg - No Ice	48.29	26.12	-15.17	-1796.36	-3096.57	0.38
1.2 Dead+1.0 Wind 90 deg - No Ice	64.38	30.14	-0.04	-3.80	-3611.69	-0.21
0.9 Dead+1.0 Wind 90 deg - No Ice	48.29	30.14	-0.04	-3.43	-3574.00	-0.22
1.2 Dead+1.0 Wind 120 deg - No Ice	64.38	26.08	15.10	1808.44	-3126.88	-0.75
0.9 Dead+1.0 Wind 120 deg - No Ice	48.29	26.08	15.10	1790.15	-3094.17	-0.77
1.2 Dead+1.0 Wind 150 deg - No Ice	64.38	15.03	26.19	3135.74	-1804.73	-1.09
0.9 Dead+1.0 Wind 150 deg - No Ice	48.29	15.03	26.19	3103.79	-1785.63	-1.10
1.2 Dead+1.0 Wind 180 deg - No Ice	64.38	-0.04	30.27	3622.42	0.47	-1.14
0.9 Dead+1.0 Wind 180 deg - No Ice	48.29	-0.04	30.27	3585.48	0.97	-1.14
1.2 Dead+1.0 Wind 210 deg - No Ice	64.38	-15.11	26.23	3138.15	1805.02	-0.88
0.9 Dead+1.0 Wind 210 deg - No Ice	48.29	-15.11	26.23	3106.19	1786.93	-0.88
1.2 Dead+1.0 Wind 240 deg - No Ice	64.38	-26.12	15.17	1812.62	3125.41	-0.39
0.9 Dead+1.0 Wind 240 deg - No Ice	48.29	-26.12	15.17	1794.33	3093.71	-0.38
1.2 Dead+1.0 Wind 270 deg - No Ice	64.38	-30.14	0.04	1.03	3607.80	0.21
0.9 Dead+1.0 Wind 270 deg - No Ice	48.29	-30.14	0.04	1.39	3571.13	0.22
1.2 Dead+1.0 Wind 300 deg - No Ice	64.38	-26.08	-15.10	-1811.21	3122.99	0.75
0.9 Dead+1.0 Wind 300 deg - No Ice	48.29	-26.08	-15.10	-1792.19	3091.30	0.76
1.2 Dead+1.0 Wind 330 deg - No Ice	64.38	-15.03	-26.19	-3138.50	1800.84	1.09
0.9 Dead+1.0 Wind 330 deg - No Ice	48.29	-15.03	-26.19	-3105.82	1782.76	1.10
1.2 Dead+1.0 Ice+1.0 Temp	88.28	0.00	-0.00	-2.49	-3.56	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	88.28	0.01	-8.55	-1016.30	-4.44	0.29
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	88.28	4.27	-7.41	-880.84	-509.62	0.23
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	88.28	7.39	-4.28	-510.07	-879.25	0.11
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	88.28	8.52	-0.01	-3.32	-1014.29	-0.04
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	88.28	7.37	4.26	503.61	-878.56	-0.18
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	88.28	4.25	7.40	874.89	-508.42	-0.27
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	88.28	-0.01	8.55	1011.05	-3.05	-0.29
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	88.28	-4.27	7.41	875.59	502.13	-0.23
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	88.28	-7.39	4.28	504.81	871.76	-0.11
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	88.28	-8.52	0.01	-1.94	1006.80	0.04
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	88.28	-7.37	-4.26	-508.87	871.07	0.18
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	88.28	-4.25	-7.40	-880.15	500.93	0.27
Dead+Wind 0 deg - Service	53.65	0.01	-7.63	-908.69	-2.22	0.29
Dead+Wind 30 deg - Service	53.65	3.81	-6.61	-787.41	-454.15	0.22
Dead+Wind 60 deg - Service	53.65	6.58	-3.82	-455.44	-784.82	0.09
Dead+Wind 90 deg - Service	53.65	7.60	-0.01	-1.75	-905.63	-0.06
Dead+Wind 120 deg - Service	53.65	6.57	3.80	452.10	-784.21	-0.20
Dead+Wind 150 deg - Service	53.65	3.79	6.60	784.51	-453.09	-0.28
Dead+Wind 180 deg - Service	53.65	-0.01	7.63	906.40	-1.00	-0.29
Dead+Wind 210 deg - Service	53.65	-3.81	6.61	785.12	450.93	-0.22
Dead+Wind 240 deg - Service	53.65	-6.58	3.82	453.15	781.60	-0.09
Dead+Wind 270 deg - Service	53.65	-7.60	0.01	-0.54	902.41	0.06
Dead+Wind 300 deg - Service	53.65	-6.57	-3.80	-454.39	780.99	0.20
Dead+Wind 330 deg - Service	53.65	-3.79	-6.60	-786.80	449.87	0.28

Solution Summary

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
1	0.00	-53.65	0.00	0.00	53.65	0.00	0.000%
2	0.04	-64.38	-30.27	-0.04	64.38	30.27	0.000%
3	0.04	-48.29	-30.27	-0.04	48.29	30.27	0.000%
4	15.11	-64.38	-26.23	-15.11	64.38	26.23	0.000%
5	15.11	-48.29	-26.23	-15.11	48.29	26.23	0.000%
6	26.12	-64.38	-15.17	-26.12	64.38	15.17	0.000%
7	26.12	-48.29	-15.17	-26.12	48.29	15.17	0.000%
8	30.14	-64.38	-0.04	-30.14	64.38	0.04	0.000%
9	30.14	-48.29	-0.04	-30.14	48.29	0.04	0.000%
10	26.08	-64.38	15.10	-26.08	64.38	-15.10	0.000%
11	26.08	-48.29	15.10	-26.08	48.29	-15.10	0.000%
12	15.03	-64.38	26.19	-15.03	64.38	-26.19	0.000%
13	15.03	-48.29	26.19	-15.03	48.29	-26.19	0.000%
14	-0.04	-64.38	30.27	0.04	64.38	-30.27	0.000%
15	-0.04	-48.29	30.27	0.04	48.29	-30.27	0.000%
16	-15.11	-64.38	26.23	15.11	64.38	-26.23	0.000%
17	-15.11	-48.29	26.23	15.11	48.29	-26.23	0.000%
18	-26.12	-64.38	15.17	26.12	64.38	-15.17	0.000%
19	-26.12	-48.29	15.17	26.12	48.29	-15.17	0.000%
20	-30.14	-64.38	0.04	30.14	64.38	-0.04	0.000%
21	-30.14	-48.29	0.04	30.14	48.29	-0.04	0.000%
22	-26.08	-64.38	-15.10	26.08	64.38	15.10	0.000%
23	-26.08	-48.29	-15.10	26.08	48.29	15.10	0.000%
24	-15.03	-64.38	-26.19	15.03	64.38	26.19	0.000%
25	-15.03	-48.29	-26.19	15.03	48.29	26.19	0.000%
26	0.00	-88.28	0.00	-0.00	88.28	0.00	0.000%
27	0.01	-88.28	-8.55	-0.01	88.28	8.55	0.000%
28	4.27	-88.28	-7.41	-4.27	88.28	7.41	0.000%
29	7.39	-88.28	-4.28	-7.39	88.28	4.28	0.000%
30	8.52	-88.28	-0.01	-8.52	88.28	0.01	0.000%
31	7.37	-88.28	4.26	-7.37	88.28	-4.26	0.000%
32	4.25	-88.28	7.40	-4.25	88.28	-7.40	0.000%
33	-0.01	-88.28	8.55	0.01	88.28	-8.55	0.000%
34	-4.27	-88.28	7.41	4.27	88.28	-7.41	0.000%
35	-7.39	-88.28	4.28	7.39	88.28	-4.28	0.000%
36	-8.52	-88.28	0.01	8.52	88.28	-0.01	0.000%
37	-7.37	-88.28	-4.26	7.37	88.28	4.26	0.000%
38	-4.25	-88.28	-7.40	4.25	88.28	7.40	0.000%
39	0.01	-53.65	-7.63	-0.01	53.65	7.63	0.000%
40	3.81	-53.65	-6.61	-3.81	53.65	6.61	0.000%
41	6.58	-53.65	-3.82	-6.58	53.65	3.82	0.000%
42	7.60	-53.65	-0.01	-7.60	53.65	0.01	0.000%
43	6.57	-53.65	3.80	-6.57	53.65	-3.80	0.000%
44	3.79	-53.65	6.60	-3.79	53.65	-6.60	0.000%
45	-0.01	-53.65	7.63	0.01	53.65	-7.63	0.000%
46	-3.81	-53.65	6.61	3.81	53.65	-6.61	0.000%
47	-6.58	-53.65	3.82	6.58	53.65	-3.82	0.000%
48	-7.60	-53.65	0.01	7.60	53.65	-0.01	0.000%
49	-6.57	-53.65	-3.80	6.57	53.65	3.80	0.000%
50	-3.79	-53.65	-6.60	3.79	53.65	6.60	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00062519
3	Yes	4	0.00000001	0.00039866
4	Yes	5	0.00000001	0.00077619
5	Yes	5	0.00000001	0.00037368
6	Yes	5	0.00000001	0.00076637
7	Yes	5	0.00000001	0.00036887
8	Yes	4	0.00000001	0.00041905

9	Yes	4	0.00000001	0.00024896
10	Yes	5	0.00000001	0.00075192
11	Yes	5	0.00000001	0.00036186
12	Yes	5	0.00000001	0.00078018
13	Yes	5	0.00000001	0.00037646
14	Yes	4	0.00000001	0.00061232
15	Yes	4	0.00000001	0.00038983
16	Yes	5	0.00000001	0.00075360
17	Yes	5	0.00000001	0.00036318
18	Yes	5	0.00000001	0.00076188
19	Yes	5	0.00000001	0.00036745
20	Yes	4	0.00000001	0.00040999
21	Yes	4	0.00000001	0.00024223
22	Yes	5	0.00000001	0.00077688
23	Yes	5	0.00000001	0.00037490
24	Yes	5	0.00000001	0.00075013
25	Yes	5	0.00000001	0.00036083
26	Yes	4	0.00000001	0.00002231
27	Yes	5	0.00000001	0.00025413
28	Yes	5	0.00000001	0.00030113
29	Yes	5	0.00000001	0.00030040
30	Yes	5	0.00000001	0.00025349
31	Yes	5	0.00000001	0.00029649
32	Yes	5	0.00000001	0.00029781
33	Yes	5	0.00000001	0.00025118
34	Yes	5	0.00000001	0.00029339
35	Yes	5	0.00000001	0.00029347
36	Yes	5	0.00000001	0.00025037
37	Yes	5	0.00000001	0.00029722
38	Yes	5	0.00000001	0.00029652
39	Yes	4	0.00000001	0.00006780
40	Yes	4	0.00000001	0.00030311
41	Yes	4	0.00000001	0.00029332
42	Yes	4	0.00000001	0.00006128
43	Yes	4	0.00000001	0.00027670
44	Yes	4	0.00000001	0.00030801
45	Yes	4	0.00000001	0.00006727
46	Yes	4	0.00000001	0.00027797
47	Yes	4	0.00000001	0.00028600
48	Yes	4	0.00000001	0.00006084
49	Yes	4	0.00000001	0.00030481
50	Yes	4	0.00000001	0.00027512

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160 - 152	17.492	40	0.9447	0.0010
L2	152 - 111.29	15.915	40	0.9375	0.0010
L3	116.71 - 77.42	9.411	40	0.7835	0.0006
L4	83.59 - 36.46	4.735	40	0.5359	0.0003
L5	43.54 - 0	1.292	40	0.2664	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
160.00	AIR6449 B41_T-MOBILE w/ Mount Pipe	40	17.492	0.9447	0.0010	63073
152.00	RRUS 11	40	15.915	0.9375	0.0010	39977
150.00	HPA-65R-BUU-H6 w/ Mount Pipe	40	15.522	0.9342	0.0010	32535
140.00	(2) JAHH-65B-R3B	40	13.589	0.9067	0.0009	17255

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
132.00	MX08FRO665-21 w/ Mount Pipe	40	12.090	0.8726	0.0008	12553
120.00	APXVTM14-ALU-I20 w/ Mount Pipe	40	9.963	0.8049	0.0006	8918
119.00	800MHZ RRH	40	9.793	0.7985	0.0006	8727
72.00	(2) GPS_A	40	3.481	0.4525	0.0003	7830

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160 - 152	69.755	2	3.7643	0.0041
L2	152 - 111.29	63.471	2	3.7357	0.0041
L3	116.71 - 77.42	37.556	2	3.1266	0.0023
L4	83.59 - 36.46	18.898	2	2.1396	0.0013
L5	43.54 - 0	5.153	2	1.0632	0.0005

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
160.00	AIR6449 B41_T-MOBILE w/ Mount Pipe	2	69.755	3.7643	0.0041	16146
152.00	RRUS 11	2	63.471	3.7357	0.0041	10226
150.00	HPA-65R-BUU-H6 w/ Mount Pipe	2	61.909	3.7228	0.0041	8317
140.00	(2) JAHH-65B-R3B	2	54.207	3.6141	0.0037	4392
132.00	MX08FRO665-21 w/ Mount Pipe	2	48.237	3.4796	0.0033	3190
120.00	APXVTM14-ALU-I20 w/ Mount Pipe	2	39.757	3.2117	0.0025	2262
119.00	800MHZ RRH	2	39.081	3.1863	0.0025	2213
72.00	(2) GPS_A	2	13.894	1.8066	0.0011	1964

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	160 - 152 (1)	TP30.62x29x0.1875	8.00	0.00	0.0	18.1111	-4.34	1059.50	0.004
L2	152 - 111.29 (2)	TP38.86x30.62x0.25	40.71	0.00	0.0	29.7665	-23.02	1741.34	0.013
L3	111.29 - 77.42 (3)	TP45.09x37.263x0.3125	39.29	0.00	0.0	43.1945	-30.74	2526.88	0.012
L4	77.42 - 36.46 (4)	TP52.62x43.2359x0.4375	47.13	0.00	0.0	70.5044	-44.79	4124.51	0.011
L5	36.46 - 0 (5)	TP59x50.3353x0.5	43.54	0.00	0.0	92.8395	-64.37	5431.11	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	160 - 152 (1)	TP30.62x29x0.1875	43.23	701.24	0.062	0.00	701.24	0.000
L2	152 - 111.29 (2)	TP38.86x30.62x0.25	557.63	1472.44	0.379	0.00	1472.44	0.000
L3	111.29 - 77.42 (3)	TP45.09x37.263x0.3125	1320.33	2556.32	0.516	0.00	2556.32	0.000
L4	77.42 - 36.46 (4)	TP52.62x43.2359x0.4375	2362.96	5177.14	0.456	0.00	5177.14	0.000
L5	36.46 - 0 (5)	TP59x50.3353x0.5	3625.19	7835.57	0.463	0.00	7835.57	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	160 - 152 (1)	TP30.62x29x0.1875	4.76	317.85	0.015	0.00	847.11	0.000
L2	152 - 111.29 (2)	TP38.86x30.62x0.25	21.67	517.17	0.042	0.59	1716.19	0.000
L3	111.29 - 77.42 (3)	TP45.09x37.263x0.3125	24.33	752.73	0.032	0.59	2891.07	0.000
L4	77.42 - 36.46 (4)	TP52.62x43.2359x0.4375	27.56	1237.35	0.022	1.14	5501.79	0.000
L5	36.46 - 0 (5)	TP59x50.3353x0.5	30.30	1629.33	0.019	1.14	8347.33	0.000

Pole Interaction Design Data

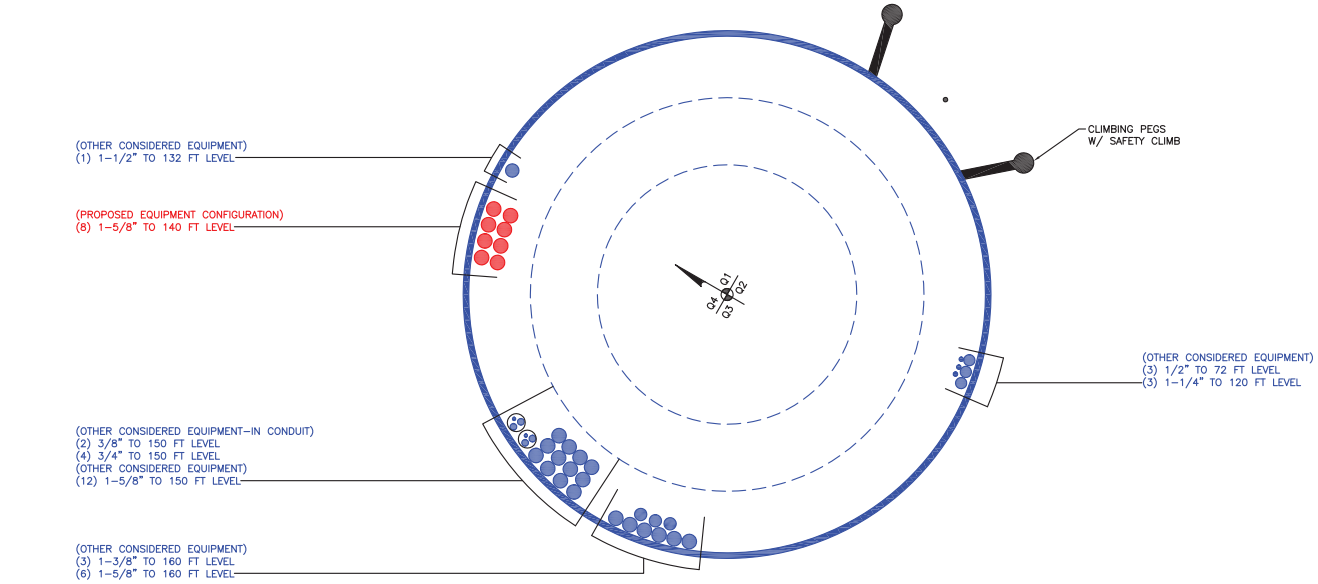
Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	160 - 152 (1)	0.004	0.062	0.000	0.015	0.000	0.066	1.050	4.8.2
L2	152 - 111.29 (2)	0.013	0.379	0.000	0.042	0.000	0.394	1.050	4.8.2
L3	111.29 - 77.42 (3)	0.012	0.516	0.000	0.032	0.000	0.530	1.050	4.8.2
L4	77.42 - 36.46 (4)	0.011	0.456	0.000	0.022	0.000	0.468	1.050	4.8.2
L5	36.46 - 0 (5)	0.012	0.463	0.000	0.019	0.000	0.475	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	160 - 152	Pole	TP30.62x29x0.1875	1	-4.34	1112.47	6.3	Pass
L2	152 - 111.29	Pole	TP38.86x30.62x0.25	2	-23.02	1828.41	37.5	Pass
L3	111.29 - 77.42	Pole	TP45.09x37.263x0.3125	3	-30.74	2653.22	50.4	Pass
L4	77.42 - 36.46	Pole	TP52.62x43.2359x0.4375	4	-44.79	4330.74	44.6	Pass
L5	36.46 - 0	Pole	TP59x50.3353x0.5	5	-64.37	5702.67	45.2	Pass
							Summary	
						Pole (L3)	50.4	Pass
						RATING =	**50.4**	**Pass**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 841290 TOWER ID:C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

Monopole Flange Plate Connection

Elevation = 152 ft.

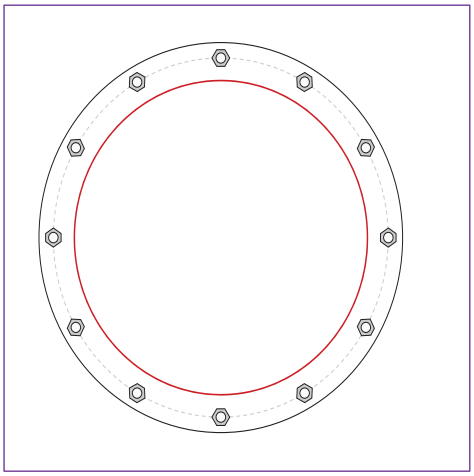
BU #	841290
Site Name	Greenwich North
Order #	621841 Rev.0

TIA-222 Revision	H

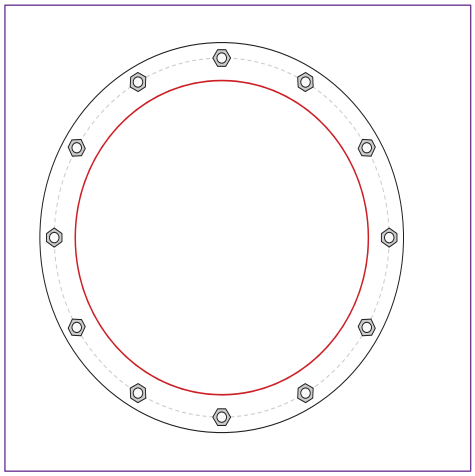
Applied Loads	
Moment (kip-ft)	43.23
Axial Force (kips)	4.34
Shear Force (kips)	4.76

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(12) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 35" BC

Top Plate Data

38" OD x 1" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Bottom Plate Data

38" OD x 1" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

30.62" x 0.1875" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Bottom Pole Data

30.62" x 0.25" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	4.58	
Allowable (kips)	54.54	
Stress Rating:	**8.0%**	Pass

Top Plate Capacity

Max Stress (ksi):	3.86	(Flexural)
Allowable Stress (ksi):	54.00	
Stress Rating:	**6.8%**	Pass
Tension Side Stress Rating:	**2.9%**	Pass

Bottom Plate Capacity

Max Stress (ksi):	3.86	(Flexural)
Allowable Stress (ksi):	54.00	
Stress Rating:	**6.8%**	Pass
Tension Side Stress Rating:	**2.9%**	Pass

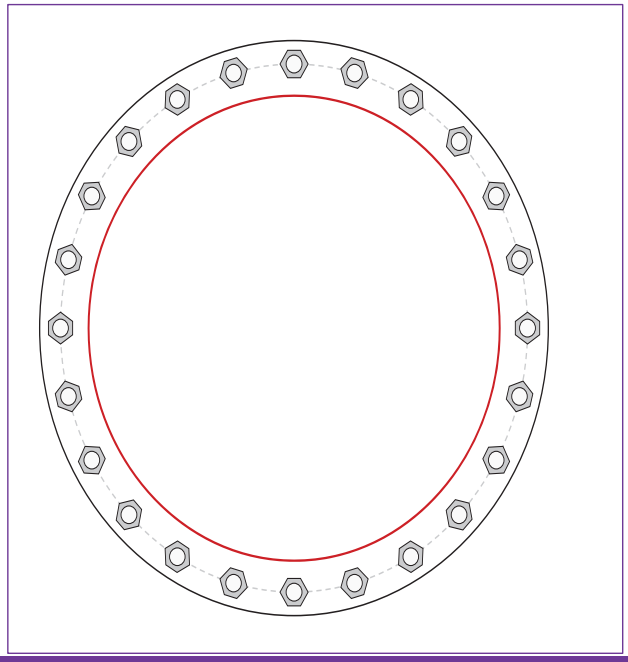
Monopole Base Plate Connection

Site Info	
BU #	841290
Site Name	Greenwich North
Order #	621841 Rev.0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	0.625

Applied Loads	
Moment (kip-ft)	3625.19
Axial Force (kips)	64.37
Shear Force (kips)	30.30

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

(24) 2-1/4" ø bolts (A615-75 N; Fy=75 ksi, Fu=100 ksi) on 67" BC

Base Plate Data

73" OD x 2.25" Plate (A572-60; Fy=60 ksi, Fu=75 ksi)

Stiffener Data

N/A

Pole Data

59" x 0.5" 18-sided pole (A572-65; Fy=65 ksi, Fu=80 ksi)

Analysis Results

Anchor Rod Summary		*(units of kips, kip-in)*
Pu_t = 105.48	ϕPn_t = 243.75	**Stress Rating**
Vu = 1.26	ϕVn = 149.1	**41.2%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary		
Max Stress (ksi):	27.72	(Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	**48.9%**	**Pass**

Pier and Pad Foundation

BU # :	841290
Site Name:	Greenwich North
App. Number:	621841 Rev.0

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp}:	64.38	kips
Base Shear, Vu_comp:	30.27	kips
Moment, M_u:	3625.19	ft-kips
Tower Height, **H**:	160	ft
BP Dist. Above Fdn, bp_{dist}:	2.875	in

Pier Properties		
Pier Shape:	Square	
Pier Diameter, **dpier**:	7	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	11	
Pier Rebar Quantity, **mc**:	22	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	9	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	4	in

Pad Properties		
Depth, **D**:	9.5	ft
Pad Width, W_1:	25	ft
Pad Thickness, **T**:	4.5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	10	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	23	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δc:	150	pcf

Soil Properties		
Total Soil Unit Weight, γ:	120	pcf
Ultimate Gross Bearing, Qult:	30.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	34	degrees
SPT Blow Count, N_{blows}:	37	
Base Friction, μ:	0.2	
Neglected Depth, **N**:	5.00	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

Foundation Analysis Checks	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	375.96	30.27	**7.7%**	**Pass**
Bearing Pressure (ksf)	22.50	3.15	**14.0%**	**Pass**
*Overturning (kip*ft)*	9025.66	3935.14	**43.6%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	5556.26	3791.68	**65.0%**	**Pass**
Pier Compression (kip)	31187.52	112.89	**0.3%**	**Pass**
*Pad Flexure (kip*ft)*	6340.37	1288.52	**19.4%**	**Pass**
Pad Shear - 1-way (kips)	1397.27	164.27	**11.2%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.019	**9.6%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	10196.70	2275.01	**21.2%**	**Pass**

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

Structural Rating*:	**65.0%**
Soil Rating*:	**43.6%**

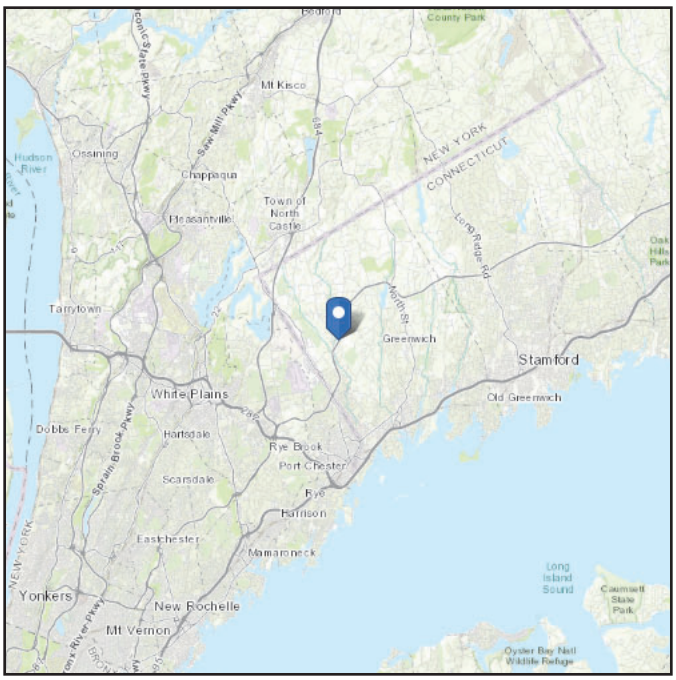
Version 4.1.1

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 223.31 ft (NAVD 88)
Latitude: 41.066278
Longitude: -73.6715



Wind

Results:

Wind Speed	116 Vmph
10-year MRI	75 Vmph
25-year MRI	84 Vmph
50-year MRI	90 Vmph
100-year MRI	96 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Tue Jun 14 2022

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

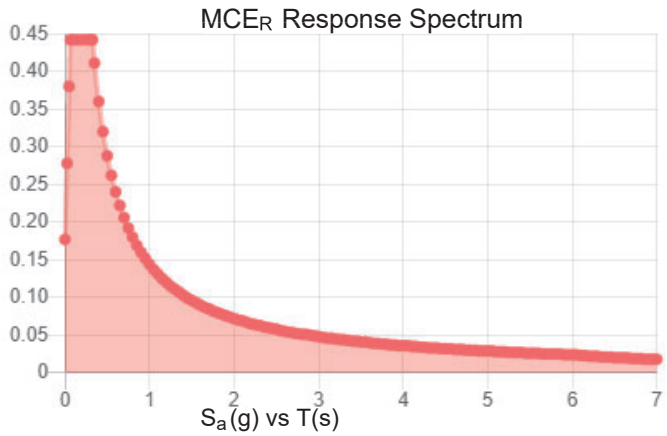
Seismic

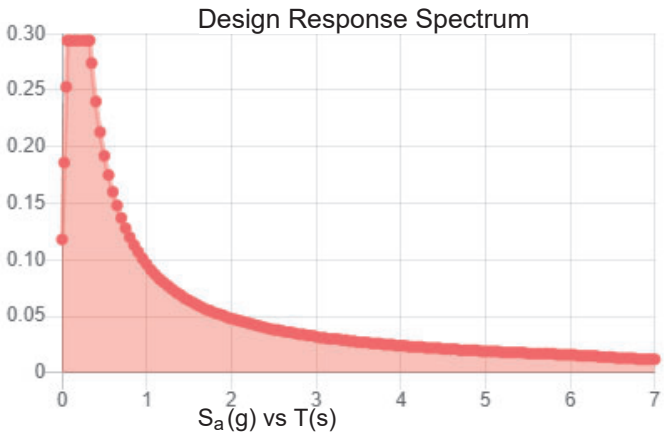
Site Soil Class: D - Stiff Soil

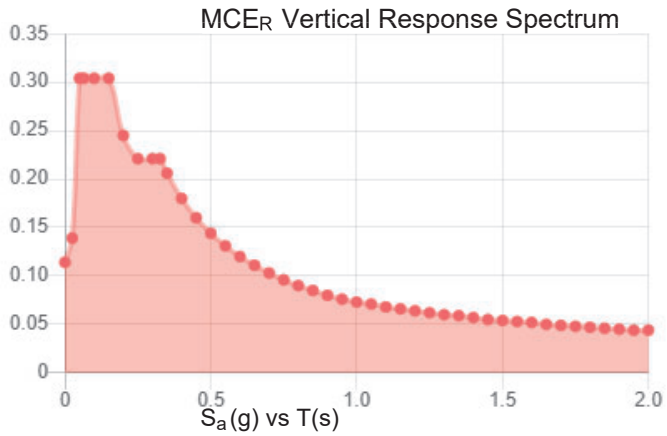
Results:

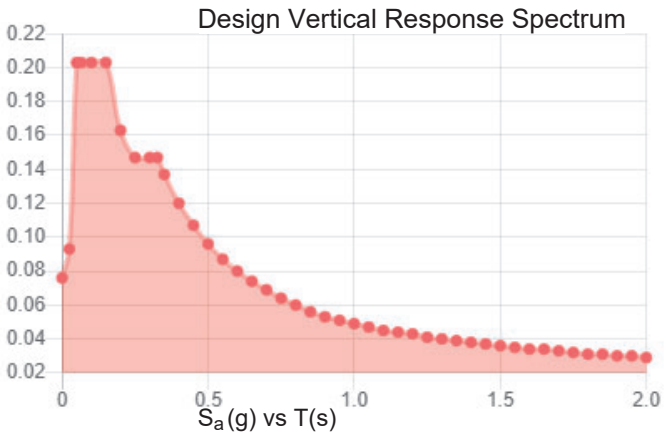
S_S :	0.28	S_{D1} :	0.096
S_1 :	0.06	T_L :	6
F_a :	1.576	PGA :	0.171
F_v :	2.4	PGA_M :	0.25
S_{MS} :	0.442	F_{PGA} :	1.457
S_{M1} :	0.144	I_e :	1
S_{DS} :	0.294	C_v :	0.861

Seismic Design Category B









Data Accessed: **Tue Jun 14 2022**

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	15 F
Gust Speed	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Tue Jun 14 2022

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 500-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 #: 10135746
Maser Consulting Connecticut Project #: 21781022A

March 7, 2022

Site Information	*Site ID:*	*468052-VZW / W GREENWICH CT*
	Site Name:	*W GREENWICH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*363 Riverville Rd.*
		Greenwich, Connecticut 06831
		Fairfield County
	Latitude:	*41.06621°*
	Longitude:	*-73.67124°*
Structure Information	*Tower Type:*	*163-Ft Monopole*
	Mount Type:	*14.2-Ft Platform*

FUZE ID # 16244187

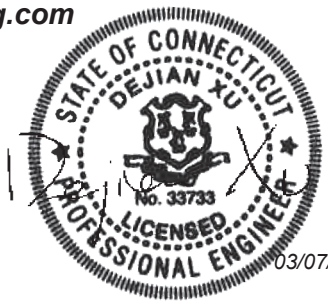
Analysis Results

Platform: **84.9% Pass w/ Modifications***

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

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

Report Prepared By: Devin Castillo



03/07/2022

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: 325026, dated October 12, 2021*
Mount Mapping Form	*TTS Wireless/Amdocs, Site ID: 841290, dated January 31, 2022*
Previous Mount Analysis Report	*Maser Consulting Connecticut Project #: 21781022A, dated February 21, 2022*
Mount Modification Drawings	*Maser Consulting Connecticut Project #: 21781022A, dated March 7, 2022*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	116 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	0.992
Seismic Parameters:	S_S:	0.280 g
	S_1:	0.060 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
139.00	141.00	6	Commscope	JAHH-65B-R3B	Retained
		3	Samsung	XXDWMM-12.5-65-8T CBRS	
		3	Commscope	CBC78T-DS-43-2X	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Samsung	MT6407-77A	Added
		3	Commscope	TD-850AB-L78-43	
		2	Raycap	RRFDC-3315-PF-48	

The recent mount mapping did not report existing OVP units. However, 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

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Proposed Kicker	*7.9%*	*Pass*
Support Rail	*23.0%*	*Pass*
Upper Corner Plate	*22.5%*	*Pass*
Mount Pipe	*30.9%*	*Pass*
Face Horizontal	*21.0%*	*Pass*
Standoff Horizontal	*26.2%*	*Pass*
Connection Check	*84.9%*	*Pass*

Structure Rating – *(Controlling Utilization of all Components)*	**84.9%**

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	21.0	21.0	39.1	39.1
0.5	27.3	27.3	53.1	53.1
1	33.4	33.4	66.8	66.8

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

Requirements:

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

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@colliersengineering.com

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PSLC #: 468052 SMART Project #: 10135746 Fuze Project ID: 16244187

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

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

Base Requirements:

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

Photo Requirements:

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation of the modifications.
  - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.

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

Material Certification:

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

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

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

OR

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

Antenna & Equipment Placement and Geometry Confirmation:

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

OR

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

Comments:

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

☐ Yes ☐ No

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

Issue:

1. Contractor to install the (2) proposed OVP on the (2) proposed OVP pipes on the standoff between Alpha/Beta sectors and Beta/Gamma sectors.

Response:

Special Instruction Confirmation:

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

Comments:

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

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

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

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Comments:

Certifying Individual:

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

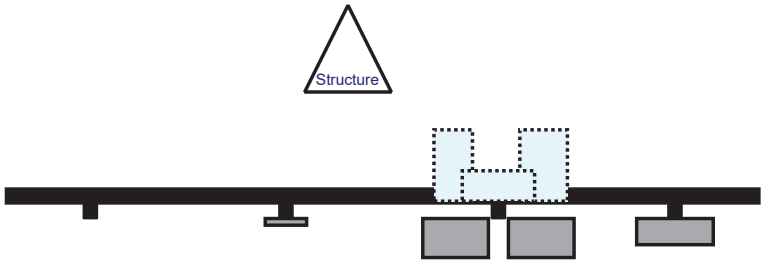
Structure: 468052-VZW - W GREENWICH CT

Sector: **A** 2/21/2022

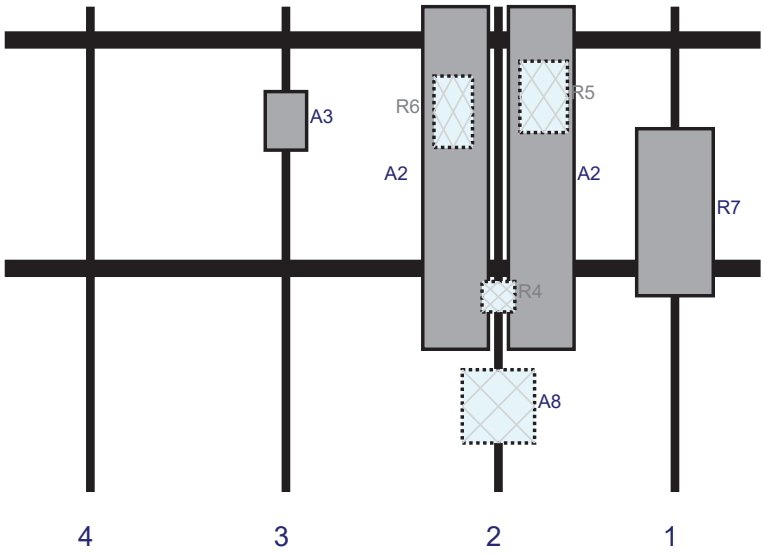
Structure Type: Monopole 10071797

Mount Elev: 139.00 Page: 1

Plan View

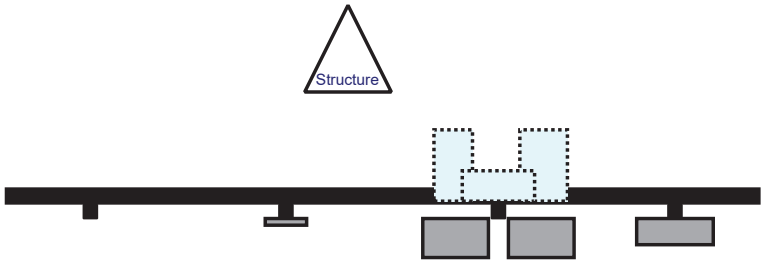


Front View - Looking at Structure

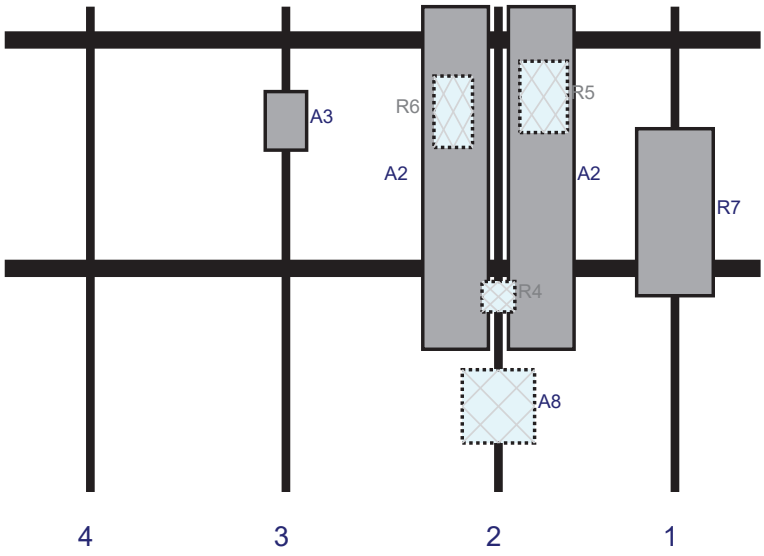


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R7	MT6407-77A	35.1	16.1	140.86	1	a	Front	43.2	0	Added	
A2	JAHH-65B-R3B	72	13.8	103.76	2	a	Front	36	9	Retained	01/31/2022
A2	JAHH-65B-R3B	72	13.8	103.76	2	b	Front	36	-9	Retained	01/31/2022
R4	CBC78T-DS-43-2X	6.4	6.9	103.76	2	a	Behind	60.96	0	Retained	01/31/2022
R5	B2/B66A RRH-BR049	15	10	103.76	2	a	Behind	18.96	9.5	Retained	01/31/2022
R6	B5/B13 RRH-BR04C	15	8.1	103.76	2	a	Behind	22.08	-9.5	Retained	01/31/2022
A8	TD-850AB-L78-43	15.4	15.2	103.76	2	a	Behind	84	0	Added	
A3	XXDWMM-12.5-65-8T-CBRS	12.3	8.7	59.1	3	a	Front	24	0	Retained	01/31/2022
M93	RRFDC-3315-PF-48	29.5	16.5		Member					Added	
DC	RRFDC-3315-PF-48	29.5	16.5		Member					Added	

Plan View



Front View - Looking at Structure



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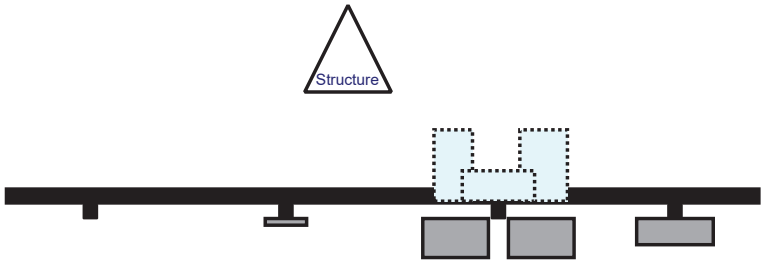
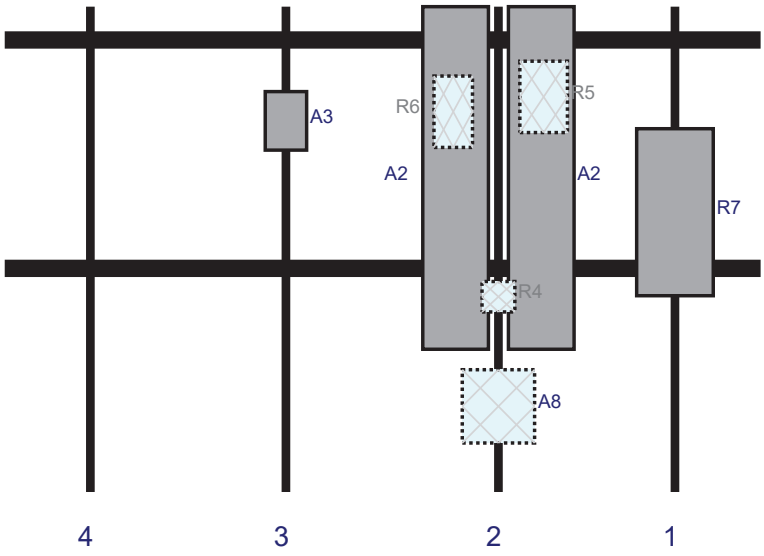
R5	B2/B66A RRH-BR049	15	10	103.76	2	a	Behind	18.96	9.5	Retained	01/31/2022
R6	B5/B13 RRH-BR04C	15	8.1	103.76	2	a	Behind	22.08	-9.5	Retained	01/31/2022
A8	TD-850AB-L78-43	15.4	15.2	103.76	2	a	Behind	84	0	Added	
A3	XXDWMM-12.5-65-8T-CBRS	12.3	8.7	59.1	3	a	Front	24	0	Retained	01/31/2022

Plan View



Front View - Looking at Structure



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MOUNT MODIFICATION DRAWINGS
EXISTING 14.20' PLATFORM

TOWER OWNER: CROWN CASTLE
TOWER OWNER SITE NUMBER: 841290

CARRIER SITE NAME: W GREENWICH CT
CARRIER SITE NUMBER: 468052
FUZE ID: 16244187

363 RIVERVILLE RD.
GREENWICH, CT 06831
FAIRFIELD COUNTY

LATITUDE: 41.066208
LONGITUDE: 73.67124

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 116 MPH
EXPOSURE CATEGORY B
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 223.21'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_S = .280
LONG TERM MCER GROUND MOTION, S_1 = .060

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: COLLIERS ENGINEERING & DESIGN
CONTACT: PETER ALBANO
PHONE: 856.797.0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10135746
VZW LOCATION CODE (PSLC): 468052
ANALYSIS DATE: 3/7/2022

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

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0	03/07/22	ISSUED FOR CONSTRUCTION	DC	DX

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

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

SITE NAME:

W GREENWICH CT
468052

363 RIVERVILLE RD.
GREENWICH, CT 06831
FAIRFIELD COUNTY

Colliers Engineering & Design

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

SHEET TITLE: TITLE SHEET

SHEET NUMBER: ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
2	VZWSMART	VZWSMART-MSK6	BACK TO BACK CROSSOVER PLATE	"	34	68
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY	"	150	150
1		VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1.	291	291
2		VZWSMART-P40-238X048	48" LONG, PIPE 2 STD (2.375"OD X 0.154" THK)	"	15	30
"		"	"	"	"	"
"		"	"	"	"	"
"		"	"	"	"	"
"		"	"	"	"	"
"		"	"	"	"	"

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
"	"	"	"	"	"	"
					TOTAL:	539

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE

CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM

METROSITE FABRICATORS, LLC

CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION

CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM

SABRE INDUSTRIES, INC.

CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1

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

VZWSMART KITS - APPROVED VENDORS

NEWAVE

CONTACT	NEWAVE SALES TEAM
PHONE	(971) 239-4762
EMAIL	SALES@NEWAVETC.COM
WEBSITE	WWW.NEWAVETC.COM

BETTER METAL, LLC

CONTACT	DAVID STANSBERRY
PHONE	(615) 535-0990 (O), (615) 631-2520 (M)
EMAIL	DLS@BETTERMETAL.COM
WEBSITE	WWW.BETTERMETAL.COM

NOTES:

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

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	04/07/22	ISSUED FOR CONSTRUCTION	DC	DR

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468052

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COLLIERS ENGINEERING & DESIGN CT, P.C.
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SHEET TITLE:

BILL OF MATERIALS

SHEET NUMBER:

SBOM-1

PROJECT NOTES

1. SEE MODIFICATION NOTES

2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.

4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.

6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.

8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.

10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.

11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

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

STRUCTURAL STEEL

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

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS ~~DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE~~ WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ~~[illegible]~~ DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

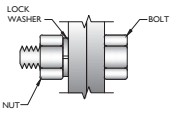
1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
7. CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA, ANSI/ASSP A10.48, ANSI Z49.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

BOLT SCHEDULE (IN.)

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

WORKABLE GAGES (IN.)

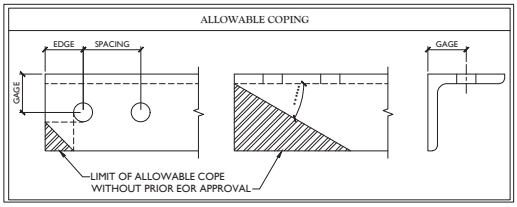
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

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



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AS SHOWN	21781022A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	4/4/2022	ISSUED FOR CONSTRUCTION	DK	DH

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CT. C.O.A. #PC-0000131

SITE NAME:

W GREENWICH CT
468052

363 RIVERVILLE RD.
GREENWICH, CT 06831
FAIRFIELD COUNTY

STAMFORD
1055 Washington Boulevard
Stamford, CT 06901
Phone: 203.325.0800
COLLIERS ENGINEERING & DESIGN CT, P.C.
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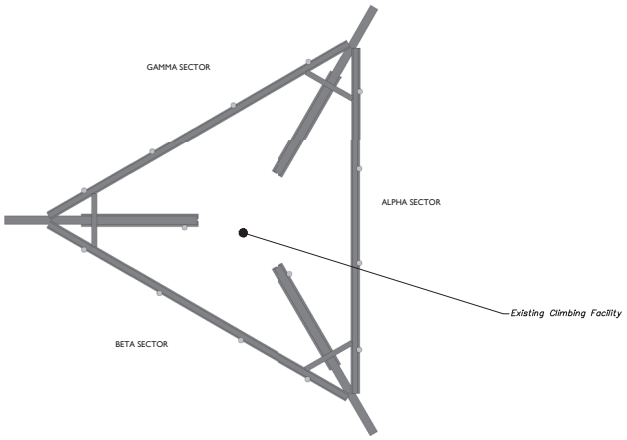
SHEET TITLE
MODIFICATION NOTES

SHEET NUMBER
SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



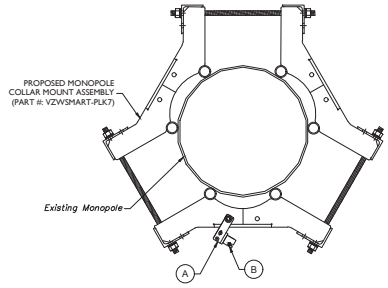
1 CLIMBING FACILITY LOCATION

SCALE : N.T.S.

STRUCTURAL NOTES:

1. CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.

2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.



ITEM #	QTY	PART NUMBER	DESCRIPTIONS
A	1	H42-0501-06	WIRE ROPE GUIDE (PERFECT VISION OR EQUIV)
B	1	PV-CMX-CG-BO	WIRE ROPE GUIDE (PERFECT VISION OR EQUIV)

2 PROPOSED WIRE ROPE GUIDE ATTACHMENT - PLAN VIEW

SCALE : N.T.S.

NOTE: CONTRACTOR SHALL ENSURE THAT WIRE ROPE GUIDE DOES NOT PUSH THE WIRE ROPE OUTSIDE OF THE VERTICAL PLANE OF THE SAFETY CLIMB. CONTRACT EOR WITH PHOTOS OF SAFETY CLIMB AND COLLAR FOR FURTHER DIRECTION IF NEEDED.

CLIMBING FACILITY PHOTO

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SCALE	JOB NUMBER
AS SHOWN	Z1781022A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	10/07/22	ISSUED FOR CONSTRUCTION	DC	DR

SITE NAME:

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468052

363 RIVERVILLE RD.
GREENWICH, CT 06831
FAIRFIELD COUNTY

Colliers Engineering & Design
STAMFORD
3905 Washington Boulevard
Stamford, CT 06902
Phone: 203.324.0800
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SHEET TITLE

CLIMBING FACILITY DETAIL

SHEET NUMBER

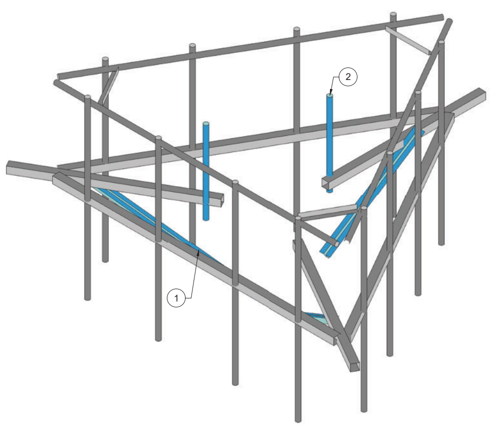
SCF-1

LEGEND:

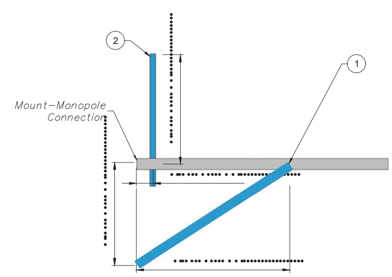
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE				
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	139'-0"	1	PROPOSED KICKER KIT (PART #: VZWSMART-PLK5))	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF KICKER KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
2		2	PROPOSED 48" LONG, P2 STD PART #: VZWSMART-P40-238X048)	CONNECT NEW OVP PIPE TO EXISTING STANDOFF HORIZONTAL WITH BACK TO BACK CROSSOVER PLATE (VZWSMART-MSK6).

NOTES:
MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1 PROPOSED ISOMETRIC VIEW
SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (BETWEEN AlPHA/BETA AND BETA/GAMMA)
SCALE : N.T.S.

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SCALE : AS SHOWN
JOB NUMBER : 21781022A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
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FAIRFIELD COUNTY

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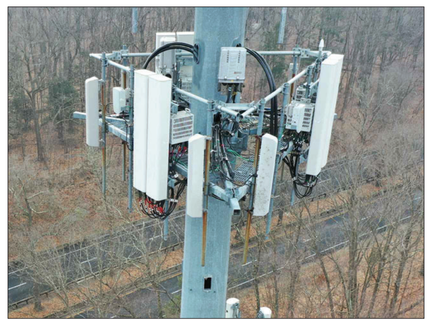
SHEET TITLE : MODIFICATION DETAILS

SHEET NUMBER : SS-1

MOUNT PHOTO 1



MOUNT PHOTO 2

MOUNT PHOTO 3

MOUNT PHOTO 4

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AS SHOWN	21781022A

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-	-	-	-	-
0	03/07/22	ISSUED FOR CONSTRUCTION	DC	DX

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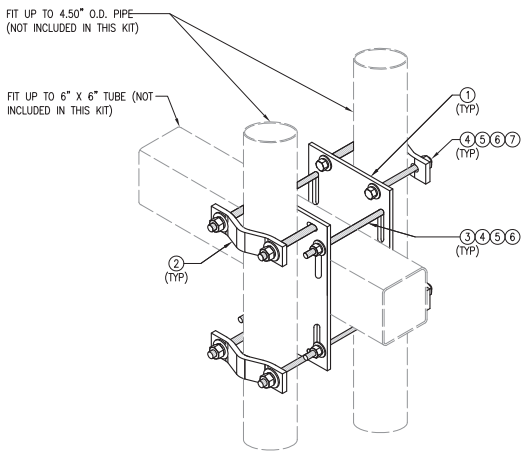
SHEET TITLE :
MOUNT PHOTOS

SHEET NUMBER :
SS-2



ISOMETRIC VIEW
BACK TO BACK CROSSOVER

VZWSMART-MSK6 (VZWSMART-MSK6 – BACK TO BACK CROSSOVER)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	2	PL375-8512	PL 3/8" X 8 1/2" X 1'-0" A36	MSK6-F2	20.7
2	4	VCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK6-F1	9.6
3	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---
4	16	NUT-625	5/8" HDG HEX NUT	---	2
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	8	---	BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD	---	1
				GALVANIZED WT	34

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

VzW SMART Tool© Vendor

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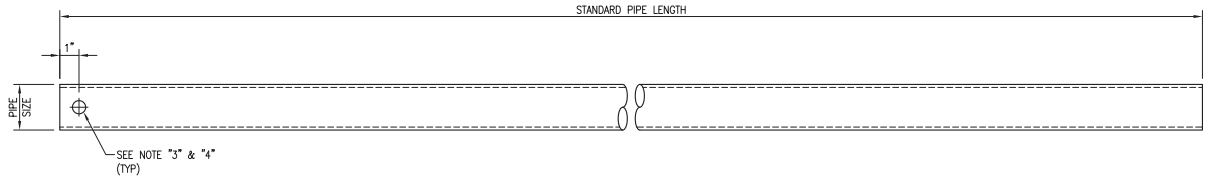
DRAWN BY: SK | CHECKED BY: BT/KW

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

SHEET TITLE:
VZWSMART-MSK6
BACK TO BACK
CROSSOVER

SHEET NUMBER: VZWSMART-MSK6 | REV #: 0



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

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

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

VzW SMART Tool© Vendor

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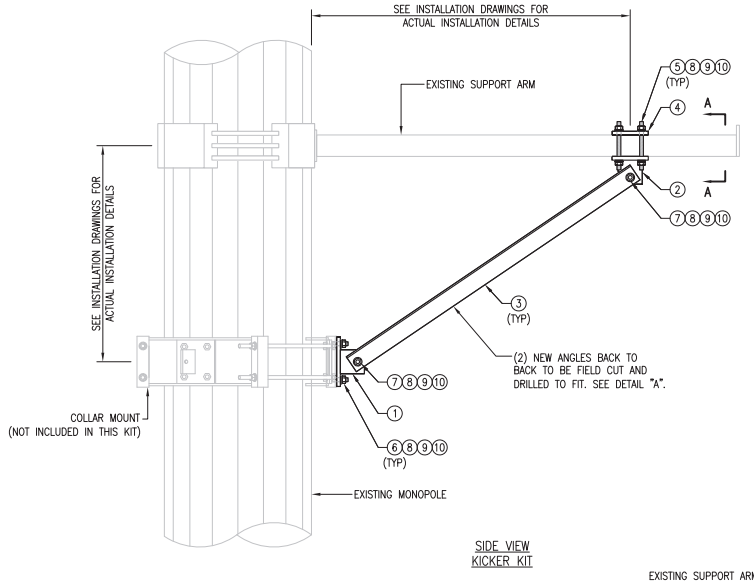
DRAWN BY: BT | CHECKED BY: HMA/KW

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

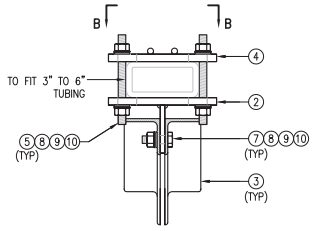
SHEET TITLE:
VZWSMART STANDARD PIPE

SHEET NUMBER: VZWSMART-PIPE | REV #: 0

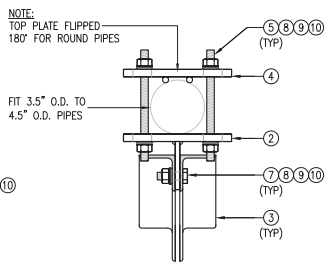
NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.



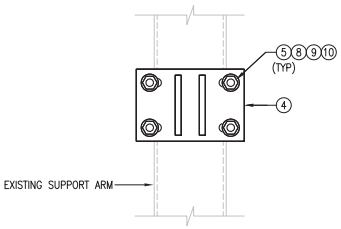
SIDE VIEW
KICKER KIT



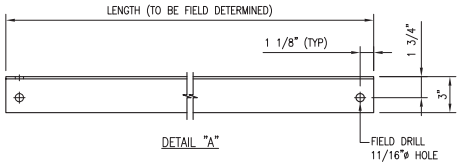
SECTION "A–A"
RECT. HSS MOUNTING



SECTION "A–A"
ROUND PIPE MOUNTING



SECTION "B–B"



VZWSMART–PLK5 (KICKER KIT)

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

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

VzW
SMART Tool©
Vendor

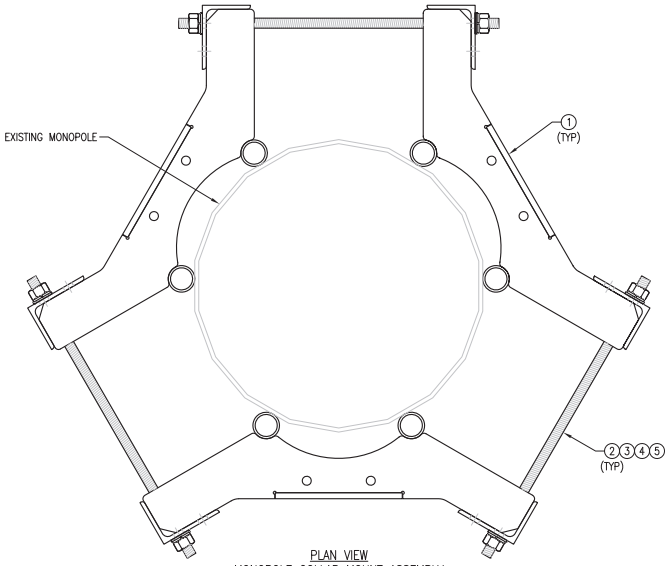
verizon

DRAWN BY: MN | CHECKED BY: HMA/KW

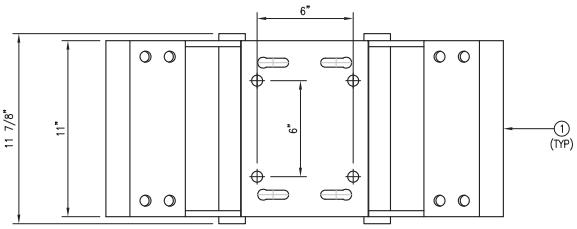
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	MN	05/08/20

SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5 | REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

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

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

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

VzW SMART Tool© Vendor

verizon

DRAWN BY: BT | CHECKED BY: HMA/KW

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

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

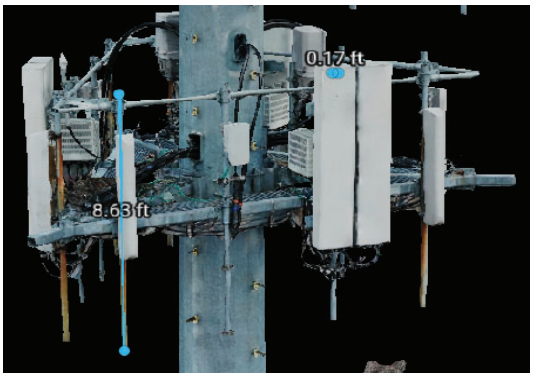
SHEET NUMBER: VZWSMART-PLK7 | REV #: 0

V4.1 Updated on 12-17-2021

Antenna Mount Mapping Form (PATENT PENDING)

FCC # 1280169

Tower Owner:	Crown Castle	**Mapping Date:**	1/31/2022
Site Name:	W GREENWICH CT	**Tower Type:**	Monopole
Site Number or ID:	841290	**Tower Height (Ft.):**	163
Mapping Contractor:	TTS Wireless / Amdocs	**Mount Elevation (Ft.):**	142



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	2 3/8"Øx 108" +/- 0.5"	49.00	23.00	C1	2 3/8"Øx 108" +/- 0.5"	49.00	23.00
A2	2 3/8"Øx 108" +/- 0.5"	49.00	61.00	C2	2 3/8"Øx 108" +/- 0.5"	49.00	61.00
A3	2 3/8"Øx 108" +/- 0.5"	49.00	106.00	C3	2 3/8"Øx 108" +/- 0.5"	49.00	106.00
A4	2 3/8"Øx 108" +/- 0.5"	49.00	147.00	C4	2 3/8"Øx 108" +/- 0.5"	49.00	147.00
A5				C5			
A6				C6			
B1	2 3/8"Øx 96" +/- 0.5"	49.00	23.00	D1			
B2	2 3/8"Øx 96" +/- 0.5"	49.00	61.00	D2			
B3	2 3/8"Øx 96" +/- 0.5"	49.00	106.00	D3			
B4	2 3/8"Øx 96" +/- 0.5"	49.00	147.00	D4			
B5				D5			
B6				D6			

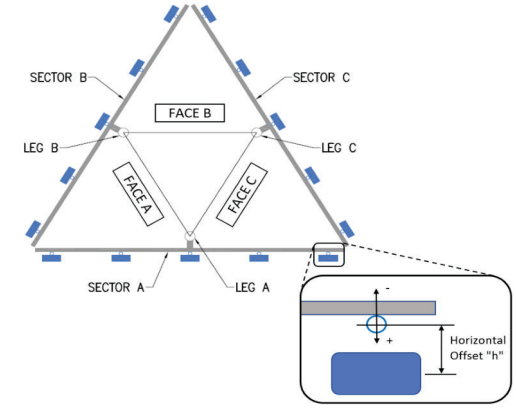
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :	10
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :	15

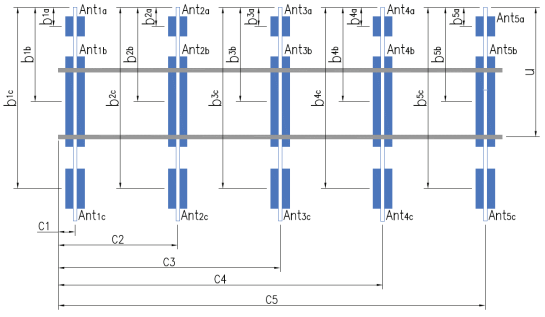
Please enter additional infomation or comments below.

Tolerences for measurements: Dimensions= +/- 0.5"; Degrees= +/- 1 degree

There are two JAHH-65B-R3B antennas, both are mounted on Pipe 2

Tower Face Width at Mount Elev. (ft.):		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):	20



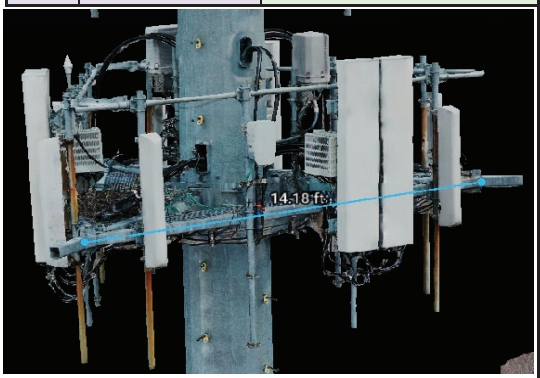


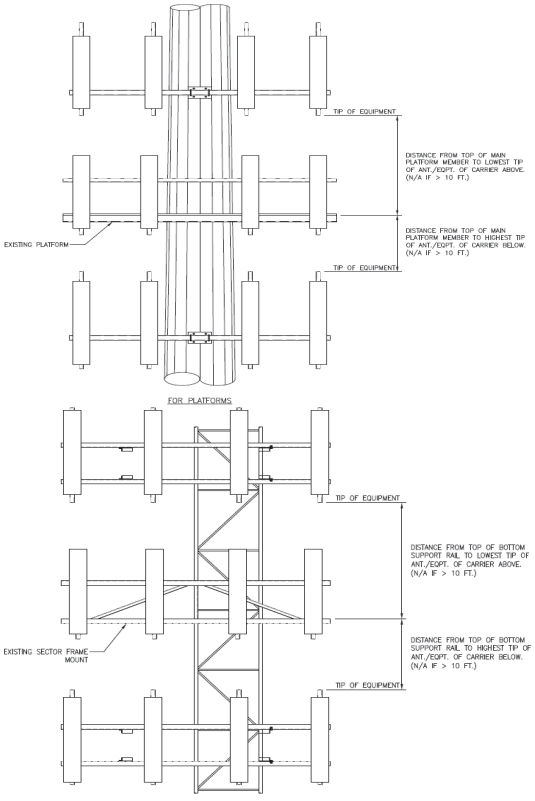
Antenna Layout (Looking Out From Tower)

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}										
Ant_{1b}	RFS APL868013	6.00	8.00	48.00	1 5/8"	144	42.00	9.00	32.00	1.1
Ant_{1c}										
Ant_{2a}	B2/B66A RRH-BR049	12.00	7.20	26.40			32.00	-11.00		1.2
Ant_{2b}	COMMSCOPE JAHH-6	13.78	8.18	71.96		144	35.00	18.00	34.00	1.1
Ant_{2c}	B5/B13 RRH-BR04C	12.00	7.20	21.00			32.00	-11.00		1.2
Ant_{3a}										
Ant_{3b}	XXDWMM-12.5-65-8T	7.30	4.68	16.20		145	23.00	9.00	34.00	1.1
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	RFS APL868013	6.00	8.00	48.00	1 5/8"	144	42.00	9.00	32.00	1.1
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector	
Sector A:	30.00	Deg	Leg A:		Deg
Sector B:	170.00	Deg	Leg B:		Deg
Sector C:	265.00	Deg	Leg C:		Deg
Sector D:		Deg	Leg D:		Deg

Climbing Facility Information		
Location:	213.00 Deg	Inside Face C
Climbing Facility	Corrosion Type:	Good condition.
	Access:	Climbing path was obstructed.
	Condition:	Good condition.





Sector B										
Ant_{1a}										
Ant_{1b}	RFS APL868013	6.00	8.00	48.00	1 5/8"	144	42.00	9.00	164.00	2.1
Ant_{1c}										
Ant_{2a}	B2/B66A RRH-BR049	12.00	7.20	26.40			32.00	-11.00		2.2
Ant_{2b}	COMMSCOPE JAHH-6	13.78	8.18	71.96		144	35.00	18.00	161.00	2.1
Ant_{2c}	B5/B13 RRH-BR04C	12.00	7.20	21.00			32.00	-11.00		2.2
Ant_{3a}										
Ant_{3b}	XXDWMM-12.5-65-8T	7.30	4.68	16.20		145	23.00	9.00	161.00	2.1
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	RFS APL868013	6.00	8.00	48.00	1 5/8"	144	42.00	9.00	164.00	2.1
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
Ant_{5c}										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										
Sector C										
Ant_{1a}										
Ant_{1b}	DB844H80E-XY	6.50	8.00	48.00	1 5/8"	144	42.00	9.00	274.00	3.1
Ant_{1c}										
Ant_{2a}	B2/B66A RRH-BR049	12.00	7.20	26.40			32.00	-11.00		3.2
Ant_{2b}	COMMSCOPE JAHH-6	13.78	8.18	71.96		144	35.00	18.00	271.00	3.1
Ant_{2c}	B5/B13 RRH-BR04C	12.00	7.20	21.00			32.00	-11.00		3.2
Ant_{3a}										
Ant_{3b}	XXDWMM-12.5-65-8T	7.30	4.68	16.20		145	23.00	9.00	271.00	3.1
Ant_{3c}										
Ant_{4a}										
Ant_{4b}	DB844H80E-XY	6.50	8.00	48.00	1 5/8"	144	42.00	9.00	274.00	3.1
Ant_{4c}										
Ant_{5a}										
Ant_{5b}										
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	Informational - Mount Pipes ISO view. Sector (A,B,C)	4.1-4.3
2	Informational - Mount Centerlines between sectors (A,B,C)	5.1-5.3
3	Informational - Sector mount connection - Tower Connection	6.1-6.3
4	There are 2 safety cables - The top one is obstruced by below mount standoff and the bottom one is out of rubber grommet. There is no safety cable near VZW carrier	7.1 - 7.2
5	Information - Gate	8
6		
7		
8		

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

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

Antenna Mount Mapping Form (PATENT PENDING)

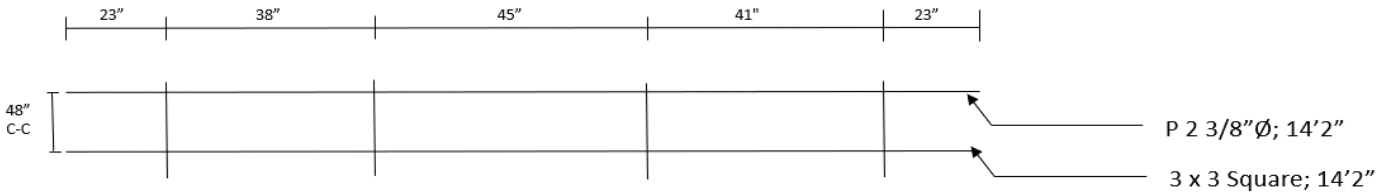
FCC #
1280169

Tower Owner:	Crown Castle	**Mapping Date:**	1/31/2022
Site Name:	W GREENWICH CT	**Tower Type:**	Monopole
Site Number or ID:	841290	**Tower Height (Ft.):**	163
Mapping Contractor:	TTS Wireless / Amdocs	**Mount Elevation (Ft.):**	142

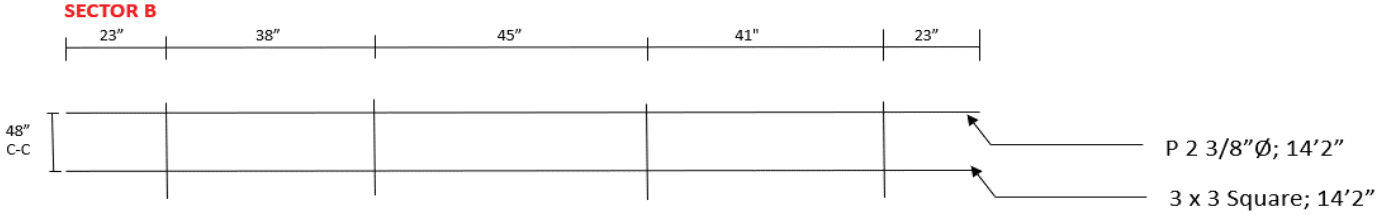
Please Insert Sketches of the Antenna Mount

PIPE SPACING:

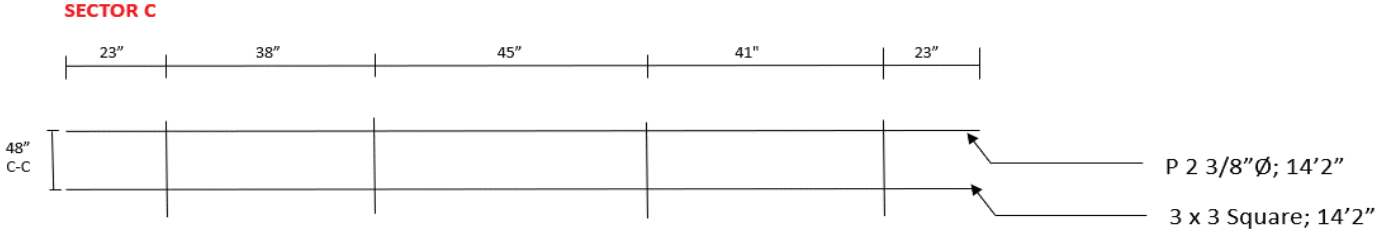
SECTOR A



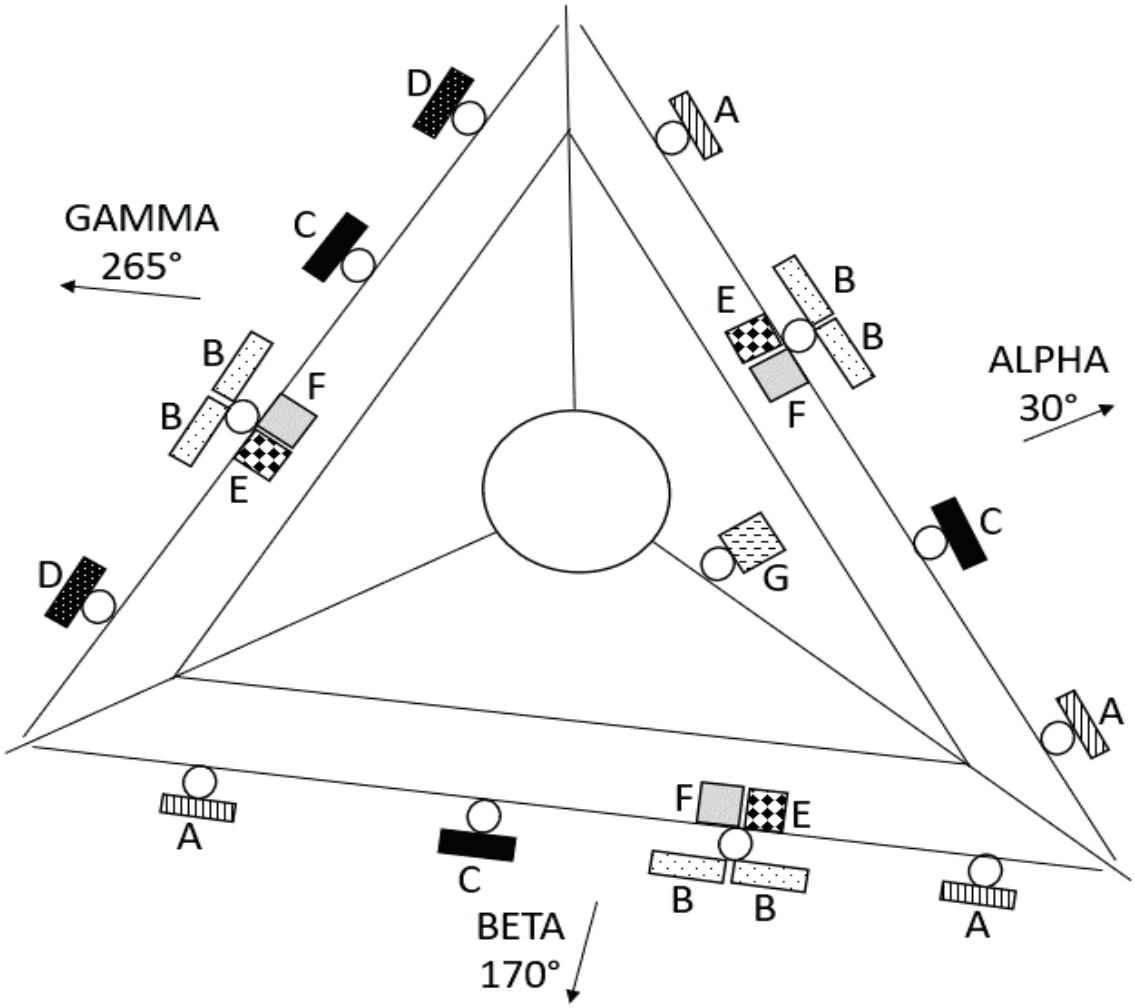
SECTOR B



SECTOR C



Please Insert Sketches of the Antenna Mount, cont'd

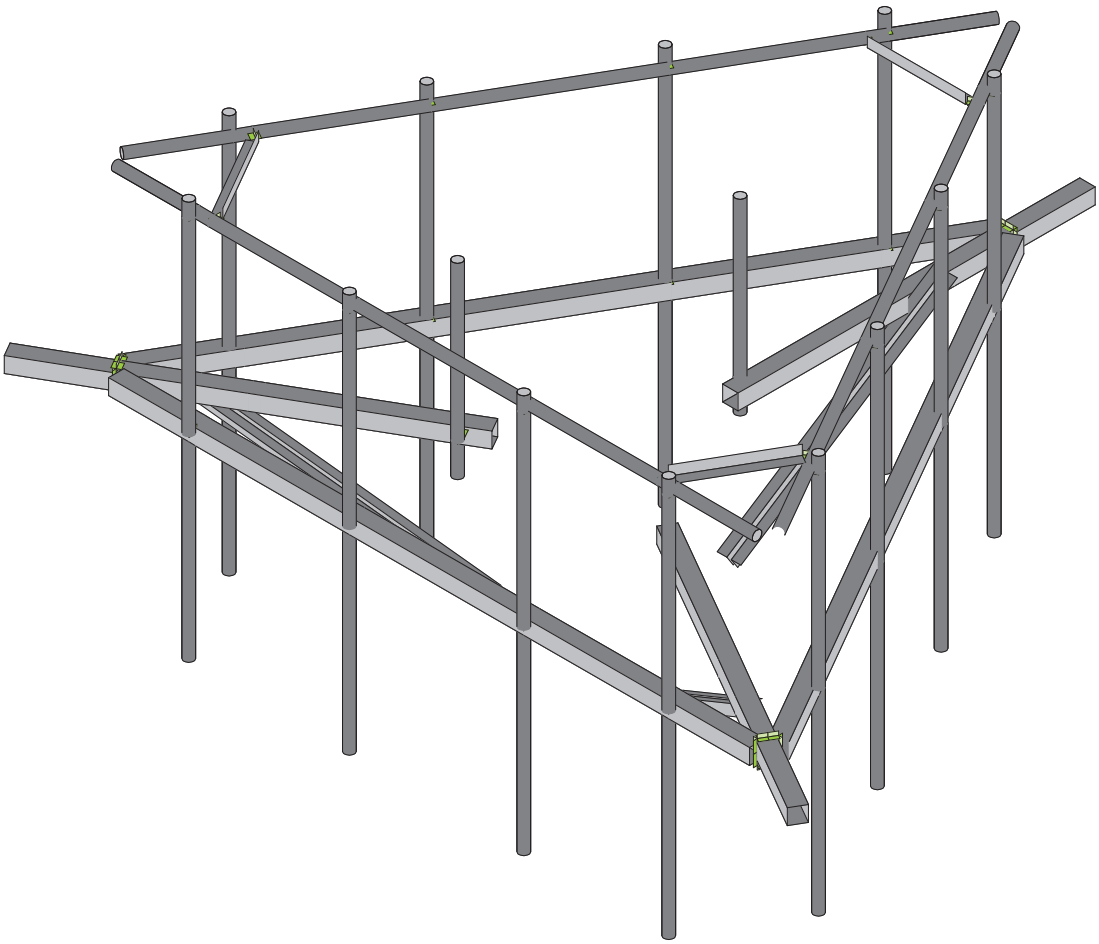


LOADING:

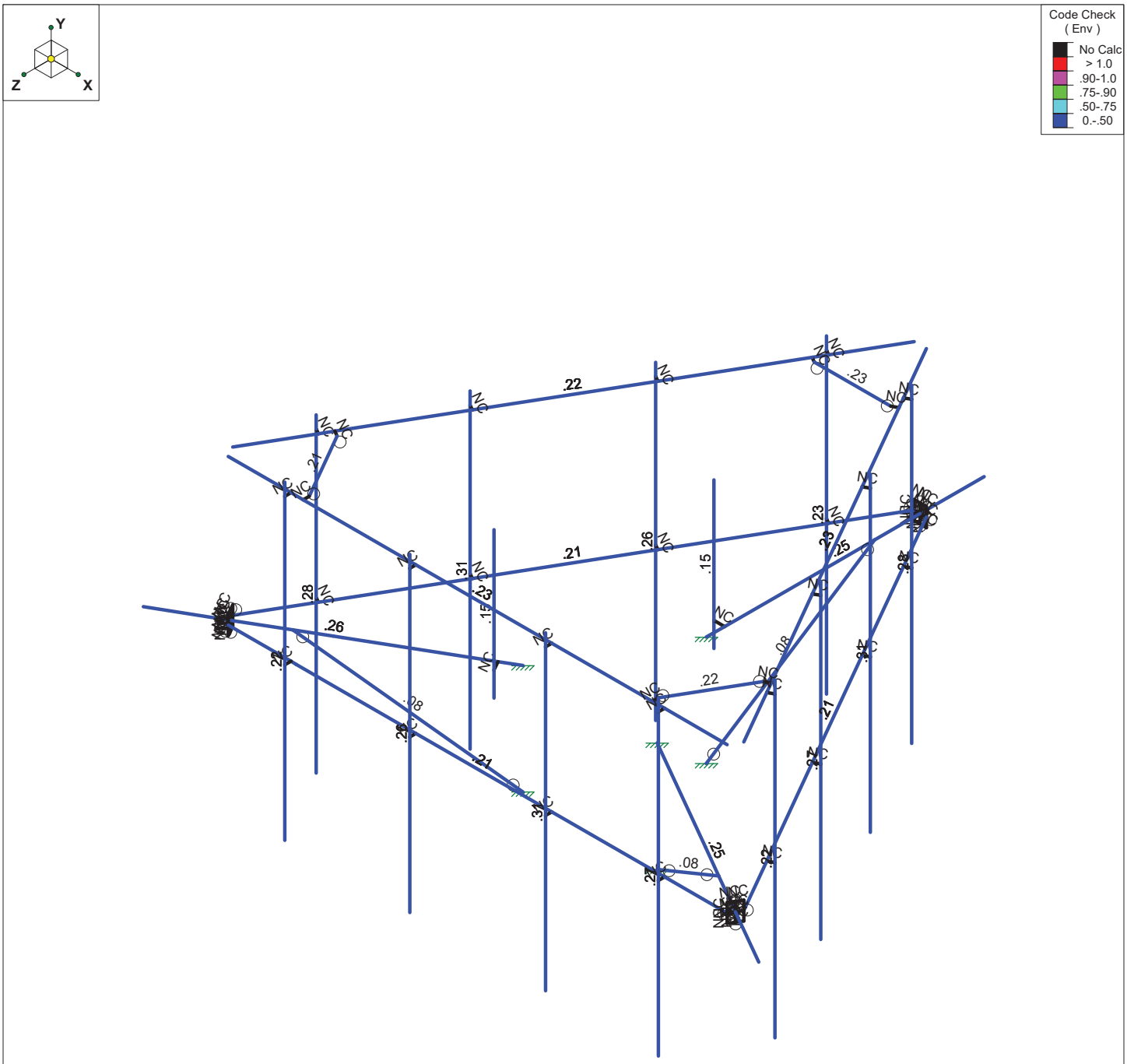
A. RFS APL868013: 6” x 8” x 48”
B. COMMSCOPE JAHH-65B-R3B: 13.78” x 8.18” x 71.96”
C. XXDWMM-12.5-65-8TCBRS: 7.30” x 4.68” x 16.20”
D. DB844H80E-XY: 6.5” x 8” x 48”
E. B2/B66A RRH-BR049: 12” x 7.20” x 26.40”
F. B5/B13 RRH-BR04C: 12” x 7.20” x 21”
G. Raycap RRFDC-3315-PF-48: 16.50” x 12.6” x 29.50”

Please Insert Sketches of the Antenna Mount, cont'd

Image#9: Length of the standoff arms for T-arms and length of the inner bracings for platform
(All sectors have same dimensions)

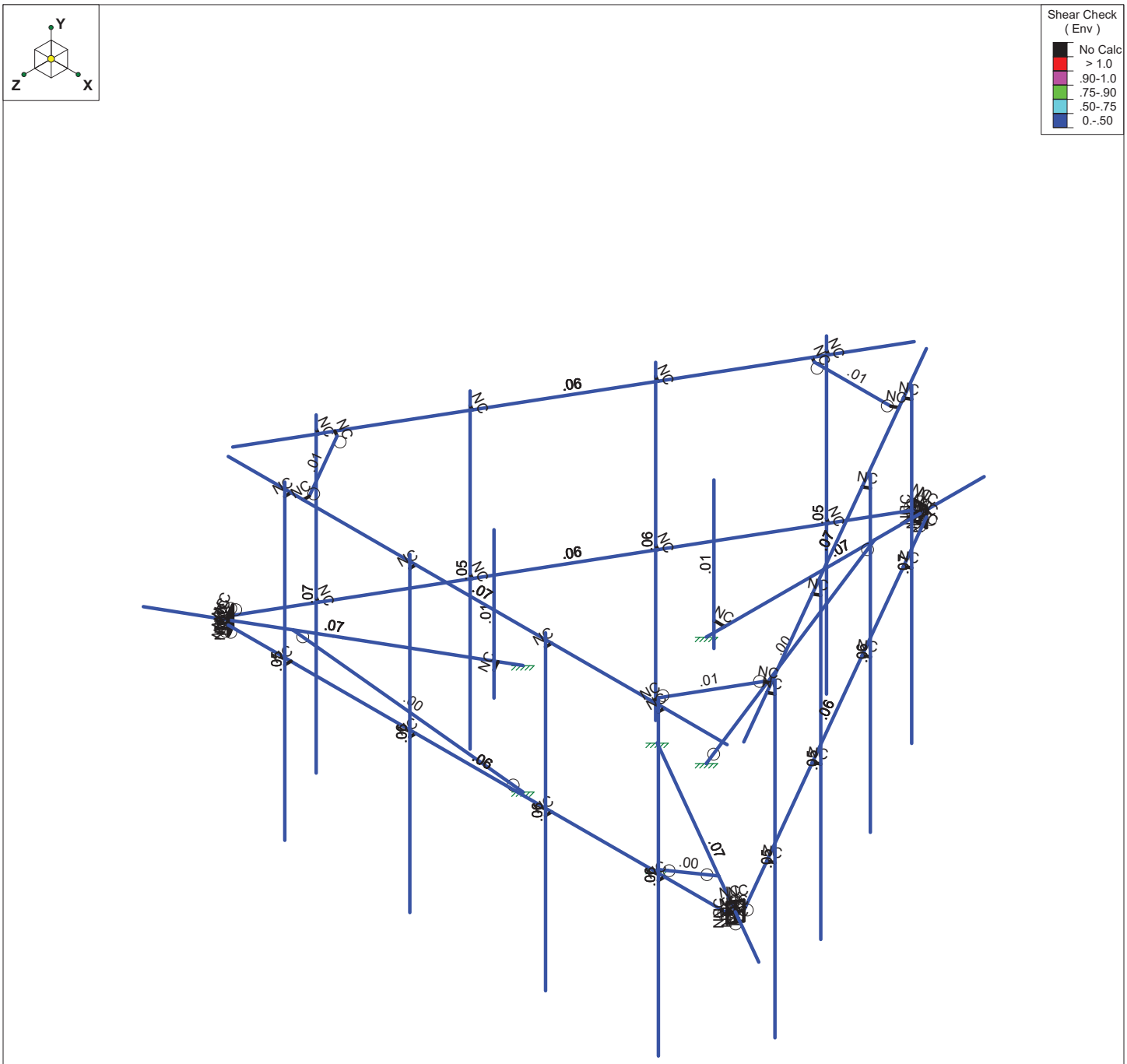


		SK - 1
		Mar 7, 2022 at 1:08 PM
		468052-VZW_MT_LO_H.r3d



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

		SK - 2
		Mar 7, 2022 at 1:08 PM
		468052-VZW_MT_LO_H.r3d



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

		SK - 3
		Mar 7, 2022 at 1:08 PM
		468052-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					105			
2	Antenna Di	None					105			
3	Antenna Wo (0 Deg)	None					105			
4	Antenna Wo (30 Deg)	None					105			
5	Antenna Wo (60 Deg)	None					105			
6	Antenna Wo (90 Deg)	None					105			
7	Antenna Wo (120 Deg)	None					105			
8	Antenna Wo (150 Deg)	None					105			
9	Antenna Wo (180 Deg)	None					105			
10	Antenna Wo (210 Deg)	None					105			
11	Antenna Wo (240 Deg)	None					105			
12	Antenna Wo (270 Deg)	None					105			
13	Antenna Wo (300 Deg)	None					105			
14	Antenna Wo (330 Deg)	None					105			
15	Antenna Wi (0 Deg)	None					105			
16	Antenna Wi (30 Deg)	None					105			
17	Antenna Wi (60 Deg)	None					105			
18	Antenna Wi (90 Deg)	None					105			
19	Antenna Wi (120 Deg)	None					105			
20	Antenna Wi (150 Deg)	None					105			
21	Antenna Wi (180 Deg)	None					105			
22	Antenna Wi (210 Deg)	None					105			
23	Antenna Wi (240 Deg)	None					105			
24	Antenna Wi (270 Deg)	None					105			
25	Antenna Wi (300 Deg)	None					105			
26	Antenna Wi (330 Deg)	None					105			
27	Antenna Wm (0 Deg)	None					105			
28	Antenna Wm (30 Deg)	None					105			
29	Antenna Wm (60 Deg)	None					105			
30	Antenna Wm (90 Deg)	None					105			
31	Antenna Wm (120 Deg)	None					105			
32	Antenna Wm (150 Deg)	None					105			
33	Antenna Wm (180 Deg)	None					105			
34	Antenna Wm (210 Deg)	None					105			
35	Antenna Wm (240 Deg)	None					105			
36	Antenna Wm (270 Deg)	None					105			
37	Antenna Wm (300 Deg)	None					105			
38	Antenna Wm (330 Deg)	None					105			
39	Structure D	None		-1					3	
40	Structure Di	None						29	3	
41	Structure Wo (0 Deg)	None						58		
42	Structure Wo (30 Deg)	None						58		
43	Structure Wo (60 Deg)	None						58		
44	Structure Wo (90 Deg)	None						58		
45	Structure Wo (120 D...	None						58		
46	Structure Wo (150 D...	None						58		
47	Structure Wo (180 D...	None						58		
48	Structure Wo (210 D...	None						58		
49	Structure Wo (240 D...	None						58		
50	Structure Wo (270 D...	None						58		
51	Structure Wo (300 D...	None						58		
52	Structure Wo (330 D...	None						58		
53	Structure Wi (0 Deg)	None						58		
54	Structure Wi (30 Deg)	None						58		
55	Structure Wi (60 Deg)	None						58		
56	Structure Wi (90 Deg)	None						58		

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						58		
58	Structure Wi (150 De...	None						58		
59	Structure Wi (180 De...	None						58		
60	Structure Wi (210 De...	None						58		
61	Structure Wi (240 De...	None						58		
62	Structure Wi (270 De...	None						58		
63	Structure Wi (300 De...	None						58		
64	Structure Wi (330 De...	None						58		
65	Structure Wm (0 Deg)	None						58		
66	Structure Wm (30 De...	None						58		
67	Structure Wm (60 De...	None						58		
68	Structure Wm (90 De...	None						58		
69	Structure Wm (120 D...	None						58		
70	Structure Wm (150 D...	None						58		
71	Structure Wm (180 D...	None						58		
72	Structure Wm (210 D...	None						58		
73	Structure Wm (240 D...	None						58		
74	Structure Wm (270 D...	None						58		
75	Structure Wm (300 D...	None						58		
76	Structure Wm (330 D...	None						58		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					105			
82	Antenna Eh (0 Deg)	None					70			
83	Antenna Eh (90 Deg)	None					70			
84	Structure Ev	ELY							3	
85	Structure Eh (0 Deg)	ELZ			-.03				3	
86	Structure Eh (90 Deg)	ELX	.03						3	
87	BLC 39 Transient Are...	None						31		
88	BLC 40 Transient Are...	None						31		
89	BLC 84 Transient Are...	None								
90	BLC 85 Transient Are...	None						31		
91	BLC 86 Transient Are...	None						31		

Load Combinations

	Description	S...	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 De...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1										
14	1.2D + 1.0Di + 1.0Wi (30 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1										
15	1.2D + 1.0Di + 1.0Wi (60 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1										
16	1.2D + 1.0Di + 1.0Wi (90 D...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1										
17	1.2D + 1.0Di + 1.0Wi (120 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1										

Load Combinations (Continued)

	Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
18	1.2D + 1.0Di + 1.0Wi (150 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1.0Wi (180 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1.0Wi (210 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1.0Wi (240 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1.0Wi (270 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1.0Wi (300 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi (330 ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0Wm (...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0Wm (...	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 D...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83		ELZ	1	E...					
53	1.2D + 1.0Ev + 1.0Eh (30 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	ELZ	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0Eh (60 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	ELZ	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0Eh (90 ...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	ELZ		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	ELZ	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0Eh (150...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.866	83	.5	ELZ	-.866	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		ELZ	-1	E...					
59	1.2D + 1.0Ev + 1.0Eh (210...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.866	83	-.5	ELZ	-.866	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	-.866	ELZ	-.5	E...	-.866				
61	1.2D + 1.0Ev + 1.0Eh (270...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-1	ELZ		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	-.866	ELZ	.5	E...	-.866				
63	1.2D + 1.0Ev + 1.0Eh (330...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	ELZ	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0Eh (0 De...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	1	83		ELZ	1	E...					
65	0.9D - 1.0Ev + 1.0Eh (30 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	.5	ELZ	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0Eh (60 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	.866	ELZ	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0Eh (90 D...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	1	ELZ		E...	1				
68	0.9D - 1.0Ev + 1.0Eh (120 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	.866	ELZ	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0Eh (150 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.866	83	.5	ELZ	-.866	E...	.5				
70	0.9D - 1.0Ev + 1.0Eh (180 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-1	83		ELZ	-1	E...					
71	0.9D - 1.0Ev + 1.0Eh (210 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.866	83	-.5	ELZ	-.866	E...	-.5				
72	0.9D - 1.0Ev + 1.0Eh (240 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	-.5	83	-.866	ELZ	-.5	E...	-.866				
73	0.9D - 1.0Ev + 1.0Eh (270 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82		83	-1	ELZ		E...	-1				
74	0.9D - 1.0Ev + 1.0Eh (300 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.5	83	-.866	ELZ	.5	E...	-.866				

Load Combinations (Continued)

	Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
75	0.9D - 1.0Ev + 1.0Eh (330 ...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	ELZ	.866	E...	-.5				

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	0	0	-2.125	0	
2	N27	0	0	-9.739583	0	
3	CP	0	0	0	0	
4	N5	0	0	-7.989583	0	
5	N6	0.166667	0	-7.989583	0	
6	N7	-0.166667	0	-7.989583	0	
7	N8	0	.25	-7.989583	0	
8	N9	0.166667	.25	-7.989583	0	
9	N10	-0.166667	.25	-7.989583	0	
10	N11	0	-.25	-7.989583	0	
11	N12	0.166667	-.25	-7.989583	0	
12	N13	-0.166667	-.25	-7.989583	0	
13	N14	-1.840304	0	1.0625	0	
14	N15	-8.434727	0	4.869792	0	
15	N26	1.840304	0	1.0625	0	
16	N27A	8.434727	0	4.869792	0	
17	N38	-5.119342	0	4.139129	0	
18	N39	-1.694342	0	4.139129	0	
19	N41	5.119342	0	4.139129	0	
20	N41A	2.027676	0	4.139129	0	
21	N42	-5.119342	0	4.305796	0	
22	N43	-1.694342	0	4.305796	0	
23	N44	5.119342	0	4.305796	0	
24	N45	2.027676	0	4.305796	0	
25	N46	-5.119342	4.333333	4.305796	0	
26	N47	-1.694342	4.333333	4.305796	0	
27	N48	5.119342	4.333333	4.305796	0	
28	N49	2.027676	4.333333	4.305796	0	
29	N50	-5.119342	-4.166667	4.305796	0	
30	N51	-1.694342	-4.166667	4.305796	0	
31	N52	5.119342	-4.166667	4.305796	0	
32	N53	2.027676	-4.166667	4.305796	0	
33	N90A	-6.835849	4	4.139129	0	
34	N91A	6.835849	4	4.139129	0	
35	N93A	-4.786009	4	4.139129	0	
36	N94	4.786009	4	4.139129	0	
37	N99	-4.786009	4	3.972463	0	
38	N100	4.786009	4	3.972463	0	
39	N73	-5.119342	4	4.139129	0	
40	N74	-1.694342	4	4.139129	0	
41	N75	5.119342	4	4.139129	0	
42	N76	2.027676	4	4.139129	0	
43	N77	-5.119342	4	4.305796	0	
44	N78	-1.694342	4	4.305796	0	
45	N79	5.119342	4	4.305796	0	
46	N80	2.027676	4	4.305796	0	
47	N129	-0.291667	0	-2.625	0	
48	N130	-0.	0	-2.625	0	
49	N131	-0.291667	3.333333	-2.625	0	
50	N132	-0.291667	-0.666667	-2.625	0	
51	N139	0	0	-5.739583	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
52	N140	-4.970625	0	2.869792	0	
53	N141	4.970625	0	2.869792	0	
54	N142	4.970625	0	4.139129	0	
55	N130A	-6.919182	0	3.994792	0	
56	N131A	-7.002515	0	3.850454	0	
57	N132A	-6.835849	0	4.139129	0	
58	N133A	-6.919182	.25	3.994792	0	
59	N134A	-7.002515	.25	3.850454	0	
60	N135A	-6.835849	.25	4.139129	0	
61	N136A	-6.919182	-.25	3.994792	0	
62	N137A	-7.002515	-.25	3.850454	0	
63	N138A	-6.835849	-.25	4.139129	0	
64	N139A	6.919182	0	3.994792	0	
65	N140A	6.835849	0	4.139129	0	
66	N141A	7.002515	0	3.850454	0	
67	N142A	6.919182	.25	3.994792	0	
68	N143A	6.835849	.25	4.139129	0	
69	N144A	7.002515	.25	3.850454	0	
70	N145A	6.919182	-.25	3.994792	0	
71	N146A	6.835849	-.25	4.139129	0	
72	N147A	7.002515	-.25	3.850454	0	
73	N114	1.099279	0	-6.374252	0	
74	N140B	-6.069904	0	2.235123	0	
75	N142B	-4.970624	0	4.139129	0	
76	N140C	6.069903	0	2.235122	0	
77	N141B	-1.099279	0	-6.374251	0	
78	N142C	-5.137515	0	2.966146	0	
79	N85	6.144262	0	2.363916	0	
80	N86	4.431762	0	-0.602221	0	
81	N87	1.02492	0	-6.503045	0	
82	N88	2.570753	0	-3.825583	0	
83	N89	6.2886	0	2.280583	0	
84	N90B	4.5761	0	-0.685554	0	
85	N91B	1.169257	0	-6.586379	0	
86	N92A	2.715091	0	-3.908917	0	
87	N93B	6.2886	4.333333	2.280583	0	
88	N94A	4.5761	4.333333	-0.685554	0	
89	N95	1.169257	4.333333	-6.586379	0	
90	N96	2.715091	4.333333	-3.908917	0	
91	N97	6.2886	-4.166667	2.280583	0	
92	N98A	4.5761	-4.166667	-0.685554	0	
93	N99A	1.169257	-4.166667	-6.586379	0	
94	N100A	2.715091	-4.166667	-3.908917	0	
95	N101	7.002515	4	3.850454	0	
96	N102	0.166667	4	-7.989583	0	
97	N104A	1.191587	4	-6.21437	0	
98	N106	1.047249	4	-6.131037	0	
99	N107	6.144262	4	2.363916	0	
100	N108	4.431762	4	-0.602221	0	
101	N109	1.02492	4	-6.503045	0	
102	N110	2.570753	4	-3.825583	0	
103	N111	6.2886	4	2.280583	0	
104	N112	4.5761	4	-0.685554	0	
105	N113	1.169257	4	-6.586379	0	
106	N114A	2.715091	4	-3.908917	0	
107	N117	-1.02492	0	-6.503045	0	
108	N118	-2.73742	0	-3.536908	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
109	N119	-6.144262	0	2.363916	0	
110	N120	-4.598429	0	-0.313546	0	
111	N121	-1.169257	0	-6.586379	0	
112	N122	-2.881757	0	-3.620242	0	
113	N123	-6.2886	0	2.280583	0	
114	N124	-4.742767	0	-0.396879	0	
115	N125	-1.169257	4.333333	-6.586379	0	
116	N126	-2.881757	4.333333	-3.620242	0	
117	N127	-6.2886	4.333333	2.280583	0	
118	N128	-4.742767	4.333333	-0.396879	0	
119	N129A	-1.169257	-4.166667	-6.586379	0	
120	N130B	-2.881757	-4.166667	-3.620242	0	
121	N131B	-6.2886	-4.166667	2.280583	0	
122	N132B	-4.742767	-4.166667	-0.396879	0	
123	N133	-0.166667	4	-7.989583	0	
124	N134	-7.002515	4	3.850454	0	
125	N136	-5.977596	4	2.075241	0	
126	N138	-5.833258	4	2.158574	0	
127	N139B	-1.02492	4	-6.503045	0	
128	N140D	-2.73742	4	-3.536908	0	
129	N141C	-6.144262	4	2.363916	0	
130	N142D	-4.598429	4	-0.313546	0	
131	N143	-1.169257	4	-6.586379	0	
132	N144	-2.881757	4	-3.620242	0	
133	N145	-6.2886	4	2.280583	0	
134	N146	-4.742767	4	-0.396879	0	
135	N143B	5.977596	4	2.075241	0	
136	N144B	5.833258	4	2.158574	0	
137	N145B	-1.191587	4	-6.21437	0	
138	N146B	-1.047249	4	-6.131037	0	
139	N143C	0	0	-6.739583	0	
140	N144C	0	-3	-2.125	0	
141	N145C	-2.127483	0	1.565091	0	
142	N146C	-2.273317	0	1.3125	0	
143	N147	-2.127483	3.333333	1.565091	0	
144	N148	-2.127483	-0.666667	1.565091	0	
145	N145D	-5.83665	0	3.369792	0	
146	N146D	-1.840304	-3	1.0625	0	
147	N147B	5.83665	0	3.369792	0	
148	N148A	1.840304	-3	1.0625	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	HSS4X4X3	Beam	SquareTube	A500 Gr.B Rect	Typical	2.58	6.21	6.21	10
2	Standoff Horizontal	HSS4X4X3	Beam	SquareTube	A500 Gr.B Rect	Typical	2.58	6.21	6.21	10
3	Support Rail	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Upper Corner Plate	L2.5x2.5x4	Column	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026
5	Mount Pipe	PIPE 2.0	Column	Single Angle	A53 Gr.B	Typical	1.02	.627	.627	1.25
6	Proposed Kicker	LL3x3x3x0	Column	Double Angle (3/...	A36 Gr.36	Typical	2.18	3.35	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
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
2	M2	N7	N5			RIGID	None	None	RIGID	Typical
3	M3	N6	N5			RIGID	None	None	RIGID	Typical
4	M4A	N10	N8			RIGID	None	None	RIGID	Typical
5	M5	N9	N8			RIGID	None	None	RIGID	Typical
6	M6	N13	N11			RIGID	None	None	RIGID	Typical
7	M7	N12	N11			RIGID	None	None	RIGID	Typical
8	M8	N8	N5			RIGID	None	None	RIGID	Typical
9	M9	N11	N5			RIGID	None	None	RIGID	Typical
10	M10	N7	N10			RIGID	None	None	RIGID	Typical
11	M11	N6	N9			RIGID	None	None	RIGID	Typical
12	M12	N7	N13			RIGID	None	None	RIGID	Typical
13	M13	N6	N12			RIGID	None	None	RIGID	Typical
14	M14	N14	N15			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
15	M27	N26	N27A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
16	M43	N38	N42			RIGID	None	None	RIGID	Typical
17	M44	N39	N43			RIGID	None	None	RIGID	Typical
18	M45	N41A	N45			RIGID	None	None	RIGID	Typical
19	M46	N41	N44			RIGID	None	None	RIGID	Typical
20	MP4A	N46	N50			Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
21	MP3A	N47	N51			Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
22	MP2A	N49	N53			Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
23	MP1A	N48	N52			Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
24	M71	N90A	N91A			Support Rail	Column	Pipe	A53 Gr.B	Typical
25	M74	N94	N100			RIGID	None	None	RIGID	Typical
26	M75	N93A	N99			RIGID	None	None	RIGID	Typical
27	M80	N138	N99			Upper Corner ...	Column	Single Angle	A36 Gr.36	Typical
28	M65	N73	N77			RIGID	None	None	RIGID	Typical
29	M66	N74	N78			RIGID	None	None	RIGID	Typical
30	M67	N76	N80			RIGID	None	None	RIGID	Typical
31	M68A	N75	N79			RIGID	None	None	RIGID	Typical
32	M93	N131	N132			Support Rail	Column	Pipe	A53 Gr.B	Typical
33	M94	N130	N129			RIGID	None	None	RIGID	Typical
34	M70B	N132A	N130A			RIGID	None	None	RIGID	Typical
35	M71B	N131A	N130A			RIGID	None	None	RIGID	Typical
36	M72B	N135A	N133A			RIGID	None	None	RIGID	Typical
37	M73A	N134A	N133A			RIGID	None	None	RIGID	Typical
38	M74A	N138A	N136A			RIGID	None	None	RIGID	Typical
39	M75A	N137A	N136A			RIGID	None	None	RIGID	Typical
40	M76A	N133A	N130A			RIGID	None	None	RIGID	Typical
41	M77B	N136A	N130A			RIGID	None	None	RIGID	Typical
42	M78B	N132A	N135A			RIGID	None	None	RIGID	Typical
43	M79B	N131A	N134A			RIGID	None	None	RIGID	Typical
44	M80B	N132A	N138A			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
45	M81A	N131A	N137A			RIGID	None	None	RIGID	Typical
46	M82A	N141A	N139A			RIGID	None	None	RIGID	Typical
47	M83A	N140A	N139A			RIGID	None	None	RIGID	Typical
48	M84A	N144A	N142A			RIGID	None	None	RIGID	Typical
49	M85	N143A	N142A			RIGID	None	None	RIGID	Typical
50	M86	N147A	N145A			RIGID	None	None	RIGID	Typical
51	M87	N146A	N145A			RIGID	None	None	RIGID	Typical
52	M88	N142A	N139A			RIGID	None	None	RIGID	Typical
53	M89A	N145A	N139A			RIGID	None	None	RIGID	Typical
54	M90A	N141A	N144A			RIGID	None	None	RIGID	Typical
55	M91A	N140A	N143A			RIGID	None	None	RIGID	Typical
56	M92A	N141A	N147A			RIGID	None	None	RIGID	Typical
57	M93A	N140A	N146A			RIGID	None	None	RIGID	Typical
58	M94A	N140A	N132A			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
59	M95A	N131A	N7			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
60	M96A	N6	N141A			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
61	M64	N85	N89			RIGID	None	None	RIGID	Typical
62	M65A	N86	N90B			RIGID	None	None	RIGID	Typical
63	M66A	N88	N92A			RIGID	None	None	RIGID	Typical
64	M67A	N87	N91B			RIGID	None	None	RIGID	Typical
65	MP4C	N93B	N97		240	Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
66	MP3C	N94A	N98A		240	Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
67	MP2C	N96	N100A		240	Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
68	MP1C	N95	N99A		240	Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
69	M72	N101	N102			Support Rail	Column	Pipe	A53 Gr.B	Typical
70	M73	N104A	N106			RIGID	None	None	RIGID	Typical
71	M75B	N107	N111			RIGID	None	None	RIGID	Typical
72	M76B	N108	N112			RIGID	None	None	RIGID	Typical
73	M77	N110	N114A			RIGID	None	None	RIGID	Typical
74	M78	N109	N113			RIGID	None	None	RIGID	Typical
75	M79	N117	N121			RIGID	None	None	RIGID	Typical
76	M80A	N118	N122			RIGID	None	None	RIGID	Typical
77	M81	N120	N124			RIGID	None	None	RIGID	Typical
78	M82	N119	N123			RIGID	None	None	RIGID	Typical
79	MP4B	N125	N129A		120	Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
80	MP3B	N126	N130B		120	Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
81	MP2B	N128	N132B		120	Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
82	MP1B	N127	N131B		120	Mount Pipe	Column	Single Angle	A53 Gr.B	Typical
83	M87A	N133	N134			Support Rail	Column	Pipe	A53 Gr.B	Typical
84	M88A	N136	N138			RIGID	None	None	RIGID	Typical
85	M90	N139B	N143			RIGID	None	None	RIGID	Typical
86	M91	N140D	N144			RIGID	None	None	RIGID	Typical
87	M92	N142D	N146			RIGID	None	None	RIGID	Typical
88	M93B	N141C	N145			RIGID	None	None	RIGID	Typical
89	M95	N143B	N144B			RIGID	None	None	RIGID	Typical
90	M96	N145B	N146B			RIGID	None	None	RIGID	Typical
91	M93C	N100	N144B			Upper Corner ...	Column	Single Angle	A36 Gr.36	Typical
92	M94B	N106	N146B			Upper Corner ...	Column	Single Angle	A36 Gr.36	Typical
93	DC	N147	N148		240	Support Rail	Column	Pipe	A53 Gr.B	Typical
94	M96B	N146C	N145C			RIGID	None	None	RIGID	Typical
95	M95B	N143C	N144C			Proposed Kicker	Column	Double Angle (...	A36 Gr.36	Typical
96	M96C	N145D	N146D			Proposed Kicker	Column	Double Angle (...	A36 Gr.36	Typical
97	M97	N147B	N148A			Proposed Kicker	Column	Double Angle (...	A36 Gr.36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M4						Yes				None
2	M2		BenPIN				Yes	** NA **			None
3	M3		BenPIN				Yes	** NA **			None
4	M4A						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M7						Yes	** NA **			None
8	M8		BenPIN				Yes	** NA **			None
9	M9		BenPIN				Yes	** NA **			None
10	M10						Yes	** NA **			None
11	M11						Yes	** NA **			None
12	M12						Yes	** NA **			None
13	M13						Yes	** NA **			None
14	M14						Yes				None
15	M27						Yes				None
16	M43						Yes	** NA **			None
17	M44						Yes	** NA **			None
18	M45						Yes	** NA **			None
19	M46						Yes	** NA **			None
20	MP4A						Yes	** NA **			None
21	MP3A						Yes	** NA **			None
22	MP2A						Yes	** NA **			None
23	MP1A						Yes	** NA **			None
24	M71						Yes	** NA **			None
25	M74	OOOOOX					Yes	** NA **			None
26	M75	OOOOOX					Yes	** NA **			None
27	M80						Yes	** NA **			None
28	M65						Yes	** NA **			None
29	M66						Yes	** NA **			None
30	M67						Yes	** NA **			None
31	M68A						Yes	** NA **			None
32	M93						Yes	** NA **			None
33	M94						Yes	** NA **			None
34	M70B		BenPIN				Yes	** NA **			None
35	M71B		BenPIN				Yes	** NA **			None
36	M72B						Yes	** NA **			None
37	M73A						Yes	** NA **			None
38	M74A						Yes	** NA **			None
39	M75A						Yes	** NA **			None
40	M76A		BenPIN				Yes	** NA **			None
41	M77B		BenPIN				Yes	** NA **			None
42	M78B						Yes	** NA **			None
43	M79B						Yes	** NA **			None
44	M80B						Yes	** NA **			None
45	M81A						Yes	** NA **			None
46	M82A		BenPIN				Yes	** NA **			None
47	M83A		BenPIN				Yes	** NA **			None
48	M84A						Yes	** NA **			None
49	M85						Yes	** NA **			None
50	M86						Yes	** NA **			None
51	M87						Yes	** NA **			None
52	M88		BenPIN				Yes	** NA **			None
53	M89A		BenPIN				Yes	** NA **			None
54	M90A						Yes	** NA **			None
55	M91A						Yes	** NA **			None
56	M92A						Yes	** NA **			None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
57	M93A						Yes	** NA **			None
58	M94A						Yes				None
59	M95A						Yes				None
60	M96A						Yes				None
61	M64						Yes	** NA **			None
62	M65A						Yes	** NA **			None
63	M66A						Yes	** NA **			None
64	M67A						Yes	** NA **			None
65	MP4C						Yes	** NA **			None
66	MP3C						Yes	** NA **			None
67	MP2C						Yes	** NA **			None
68	MP1C						Yes	** NA **			None
69	M72						Yes	** NA **			None
70	M73	OOOOOX					Yes	** NA **			None
71	M75B						Yes	** NA **			None
72	M76B						Yes	** NA **			None
73	M77						Yes	** NA **			None
74	M78						Yes	** NA **			None
75	M79						Yes	** NA **			None
76	M80A						Yes	** NA **			None
77	M81						Yes	** NA **			None
78	M82						Yes	** NA **			None
79	MP4B						Yes	** NA **			None
80	MP3B						Yes	** NA **			None
81	MP2B						Yes	** NA **			None
82	MP1B						Yes	** NA **			None
83	M87A						Yes	** NA **			None
84	M88A	OOOOOX					Yes	** NA **			None
85	M90						Yes	** NA **			None
86	M91						Yes	** NA **			None
87	M92						Yes	** NA **			None
88	M93B						Yes	** NA **			None
89	M95	OOOOOX					Yes	** NA **			None
90	M96	OOOOOX					Yes	** NA **			None
91	M93C						Yes	** NA **			None
92	M94B						Yes	** NA **			None
93	DC						Yes	** NA **			None
94	M96B						Yes	** NA **			None
95	M95B	BenPIN	BenPIN				Yes	** NA **			None
96	M96C	BenPIN	BenPIN				Yes	** NA **			None
97	M97	BenPIN	BenPIN				Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	Y	-32	1
2	M93	My	0	1
3	M93	Mz	0	1
4	MP2A	Y	-31.65	.5
5	MP2A	My	-.008	.5
6	MP2A	Mz	.024	.5
7	MP2A	Y	-31.65	5.5
8	MP2A	My	-.008	5.5
9	MP2A	Mz	.024	5.5
10	MP2B	Y	-31.65	.5
11	MP2B	My	-.009	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mz	-.023	.5
13	MP2B	Y	-31.65	5.5
14	MP2B	My	-.009	5.5
15	MP2B	Mz	-.023	5.5
16	MP2C	Y	-31.65	.5
17	MP2C	My	.024	.5
18	MP2C	Mz	-.007	.5
19	MP2C	Y	-31.65	5.5
20	MP2C	My	.024	5.5
21	MP2C	Mz	-.007	5.5
22	MP2A	Y	-31.65	.5
23	MP2A	My	-.008	.5
24	MP2A	Mz	-.024	.5
25	MP2A	Y	-31.65	5.5
26	MP2A	My	-.008	5.5
27	MP2A	Mz	-.024	5.5
28	MP2B	Y	-31.65	.5
29	MP2B	My	.021	.5
30	MP2B	Mz	.013	.5
31	MP2B	Y	-31.65	5.5
32	MP2B	My	.021	5.5
33	MP2B	Mz	.013	5.5
34	MP2C	Y	-31.65	.5
35	MP2C	My	-.015	.5
36	MP2C	Mz	.02	.5
37	MP2C	Y	-31.65	5.5
38	MP2C	My	-.015	5.5
39	MP2C	Mz	.02	5.5
40	MP3A	Y	-4.4	2
41	MP3A	My	-.001	2
42	MP3A	Mz	0	2
43	MP3B	Y	-4.4	2
44	MP3B	My	.000843	2
45	MP3B	Mz	-.000707	2
46	MP3C	Y	-4.4	2
47	MP3C	My	.000631	2
48	MP3C	Mz	.000901	2
49	MP2A	Y	-10.4	5.08
50	MP2A	My	.003	5.08
51	MP2A	Mz	0	5.08
52	MP2B	Y	-10.4	5.08
53	MP2B	My	-.002	5.08
54	MP2B	Mz	.002	5.08
55	MP2C	Y	-10.4	5.08
56	MP2C	My	-.001	5.08
57	MP2C	Mz	-.002	5.08
58	MP2A	Y	-84.4	1.58
59	MP2A	My	.021	1.58
60	MP2A	Mz	.067	1.58
61	MP2B	Y	-84.4	1.58
62	MP2B	My	-.059	1.58
63	MP2B	Mz	-.038	1.58
64	MP2C	Y	-84.4	1.58
65	MP2C	My	.043	1.58
66	MP2C	Mz	-.056	1.58
67	MP2A	Y	-70.3	1.84
68	MP2A	My	.018	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP2A	Mz	-.056	1.84
70	MP2B	Y	-70.3	1.84
71	MP2B	My	.022	1.84
72	MP2B	Mz	.054	1.84
73	MP2C	Y	-70.3	1.84
74	MP2C	My	-.056	1.84
75	MP2C	Mz	.018	1.84
76	MP1A	Y	-43.55	2.9
77	MP1A	My	-.011	2.9
78	MP1A	Mz	0	2.9
79	MP1A	Y	-43.55	4.3
80	MP1A	My	-.011	4.3
81	MP1A	Mz	0	4.3
82	MP1B	Y	-43.55	2.9
83	MP1B	My	.008	2.9
84	MP1B	Mz	-.007	2.9
85	MP1B	Y	-43.55	4.3
86	MP1B	My	.008	4.3
87	MP1B	Mz	-.007	4.3
88	MP1C	Y	-43.55	2.9
89	MP1C	My	.006	2.9
90	MP1C	Mz	.009	2.9
91	MP1C	Y	-43.55	4.3
92	MP1C	My	.006	4.3
93	MP1C	Mz	.009	4.3
94	MP2A	Y	-52.9	7
95	MP2A	My	.013	7
96	MP2A	Mz	0	7
97	MP2B	Y	-52.9	7
98	MP2B	My	-.01	7
99	MP2B	Mz	.009	7
100	MP2C	Y	-52.9	7
101	MP2C	My	-.008	7
102	MP2C	Mz	-.011	7
103	DC	Y	-32	1
104	DC	My	0	1
105	DC	Mz	0	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	Y	-87.967	1
2	M93	My	0	1
3	M93	Mz	0	1
4	MP2A	Y	-69.99	.5
5	MP2A	My	-.017	.5
6	MP2A	Mz	.052	.5
7	MP2A	Y	-69.99	5.5
8	MP2A	My	-.017	5.5
9	MP2A	Mz	.052	5.5
10	MP2B	Y	-69.99	.5
11	MP2B	My	-.02	.5
12	MP2B	Mz	-.051	.5
13	MP2B	Y	-69.99	5.5
14	MP2B	My	-.02	5.5
15	MP2B	Mz	-.051	5.5
16	MP2C	Y	-69.99	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	My	.053	.5
18	MP2C	Mz	-.016	.5
19	MP2C	Y	-69.99	5.5
20	MP2C	My	.053	5.5
21	MP2C	Mz	-.016	5.5
22	MP2A	Y	-69.99	.5
23	MP2A	My	-.017	.5
24	MP2A	Mz	-.052	.5
25	MP2A	Y	-69.99	5.5
26	MP2A	My	-.017	5.5
27	MP2A	Mz	-.052	5.5
28	MP2B	Y	-69.99	.5
29	MP2B	My	.047	.5
30	MP2B	Mz	.029	.5
31	MP2B	Y	-69.99	5.5
32	MP2B	My	.047	5.5
33	MP2B	Mz	.029	5.5
34	MP2C	Y	-69.99	.5
35	MP2C	My	-.033	.5
36	MP2C	Mz	.044	.5
37	MP2C	Y	-69.99	5.5
38	MP2C	My	-.033	5.5
39	MP2C	Mz	.044	5.5
40	MP3A	Y	-13.458	2
41	MP3A	My	-.003	2
42	MP3A	Mz	0	2
43	MP3B	Y	-13.458	2
44	MP3B	My	.003	2
45	MP3B	Mz	-.002	2
46	MP3C	Y	-13.458	2
47	MP3C	My	.002	2
48	MP3C	Mz	.003	2
49	MP2A	Y	-10.748	5.08
50	MP2A	My	.003	5.08
51	MP2A	Mz	0	5.08
52	MP2B	Y	-10.748	5.08
53	MP2B	My	-.002	5.08
54	MP2B	Mz	.002	5.08
55	MP2C	Y	-10.748	5.08
56	MP2C	My	-.002	5.08
57	MP2C	Mz	-.002	5.08
58	MP2A	Y	-44.929	1.58
59	MP2A	My	.011	1.58
60	MP2A	Mz	.036	1.58
61	MP2B	Y	-44.929	1.58
62	MP2B	My	-.031	1.58
63	MP2B	Mz	-.02	1.58
64	MP2C	Y	-44.929	1.58
65	MP2C	My	.023	1.58
66	MP2C	Mz	-.03	1.58
67	MP2A	Y	-40.405	1.84
68	MP2A	My	.01	1.84
69	MP2A	Mz	-.032	1.84
70	MP2B	Y	-40.405	1.84
71	MP2B	My	.013	1.84
72	MP2B	Mz	.031	1.84
73	MP2C	Y	-40.405	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP2C	My	-.032	1.84
75	MP2C	Mz	.01	1.84
76	MP1A	Y	-35.636	2.9
77	MP1A	My	-.009	2.9
78	MP1A	Mz	0	2.9
79	MP1A	Y	-35.636	4.3
80	MP1A	My	-.009	4.3
81	MP1A	Mz	0	4.3
82	MP1B	Y	-35.636	2.9
83	MP1B	My	.007	2.9
84	MP1B	Mz	-.006	2.9
85	MP1B	Y	-35.636	4.3
86	MP1B	My	.007	4.3
87	MP1B	Mz	-.006	4.3
88	MP1C	Y	-35.636	2.9
89	MP1C	My	.005	2.9
90	MP1C	Mz	.007	2.9
91	MP1C	Y	-35.636	4.3
92	MP1C	My	.005	4.3
93	MP1C	Mz	.007	4.3
94	MP2A	Y	-37.406	7
95	MP2A	My	.009	7
96	MP2A	Mz	0	7
97	MP2B	Y	-37.406	7
98	MP2B	My	-.007	7
99	MP2B	Mz	.006	7
100	MP2C	Y	-37.406	7
101	MP2C	My	-.005	7
102	MP2C	Mz	-.008	7
103	DC	Y	-87.967	1
104	DC	My	0	1
105	DC	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	0	1
2	M93	Z	-94.526	1
3	M93	Mx	0	1
4	MP2A	X	0	.5
5	MP2A	Z	-144.484	.5
6	MP2A	Mx	-.108	.5
7	MP2A	X	0	5.5
8	MP2A	Z	-144.484	5.5
9	MP2A	Mx	-.108	5.5
10	MP2B	X	0	.5
11	MP2B	Z	-123.996	.5
12	MP2B	Mx	.091	.5
13	MP2B	X	0	5.5
14	MP2B	Z	-123.996	5.5
15	MP2B	Mx	.091	5.5
16	MP2C	X	0	.5
17	MP2C	Z	-111.21	.5
18	MP2C	Mx	.025	.5
19	MP2C	X	0	5.5
20	MP2C	Z	-111.21	5.5
21	MP2C	Mx	.025	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	0	.5
23	MP2A	Z	-144.484	.5
24	MP2A	Mx	.108	.5
25	MP2A	X	0	5.5
26	MP2A	Z	-144.484	5.5
27	MP2A	Mx	.108	5.5
28	MP2B	X	0	.5
29	MP2B	Z	-123.996	.5
30	MP2B	Mx	-.051	.5
31	MP2B	X	0	5.5
32	MP2B	Z	-123.996	5.5
33	MP2B	Mx	-.051	5.5
34	MP2C	X	0	.5
35	MP2C	Z	-111.21	.5
36	MP2C	Mx	-.071	.5
37	MP2C	X	0	5.5
38	MP2C	Z	-111.21	5.5
39	MP2C	Mx	-.071	5.5
40	MP3A	X	0	2
41	MP3A	Z	-28.231	2
42	MP3A	Mx	0	2
43	MP3B	X	0	2
44	MP3B	Z	-18.854	2
45	MP3B	Mx	.003	2
46	MP3C	X	0	2
47	MP3C	Z	-13.003	2
48	MP3C	Mx	-.003	2
49	MP2A	X	0	5.08
50	MP2A	Z	-11.736	5.08
51	MP2A	Mx	0	5.08
52	MP2B	X	0	5.08
53	MP2B	Z	-10.242	5.08
54	MP2B	Mx	-.002	5.08
55	MP2C	X	0	5.08
56	MP2C	Z	-9.31	5.08
57	MP2C	Mx	.002	5.08
58	MP2A	X	0	1.58
59	MP2A	Z	-49.166	1.58
60	MP2A	Mx	-.039	1.58
61	MP2B	X	0	1.58
62	MP2B	Z	-42.482	1.58
63	MP2B	Mx	.019	1.58
64	MP2C	X	0	1.58
65	MP2C	Z	-38.311	1.58
66	MP2C	Mx	.025	1.58
67	MP2A	X	0	1.84
68	MP2A	Z	-49.166	1.84
69	MP2A	Mx	.039	1.84
70	MP2B	X	0	1.84
71	MP2B	Z	-39.992	1.84
72	MP2B	Mx	-.031	1.84
73	MP2C	X	0	1.84
74	MP2C	Z	-34.267	1.84
75	MP2C	Mx	-.009	1.84
76	MP1A	X	0	2.9
77	MP1A	Z	-62.171	2.9
78	MP1A	Mx	0	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP1A	X	0	4.3
80	MP1A	Z	-62.171	4.3
81	MP1A	Mx	0	4.3
82	MP1B	X	0	2.9
83	MP1B	Z	-45.33	2.9
84	MP1B	Mx	.007	2.9
85	MP1B	X	0	4.3
86	MP1B	Z	-45.33	4.3
87	MP1B	Mx	.007	4.3
88	MP1C	X	0	2.9
89	MP1C	Z	-34.821	2.9
90	MP1C	Mx	-.007	2.9
91	MP1C	X	0	4.3
92	MP1C	Z	-34.821	4.3
93	MP1C	Mx	-.007	4.3
94	MP2A	X	0	7
95	MP2A	Z	-62.171	7
96	MP2A	Mx	0	7
97	MP2B	X	0	7
98	MP2B	Z	-47.248	7
99	MP2B	Mx	-.008	7
100	MP2C	X	0	7
101	MP2C	Z	-37.935	7
102	MP2C	Mx	.008	7
103	DC	X	0	1
104	DC	Z	-94.526	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	41.236	1
2	M93	Z	-71.423	1
3	M93	Mx	0	1
4	MP2A	X	66.044	.5
5	MP2A	Z	-114.391	.5
6	MP2A	Mx	-.102	.5
7	MP2A	X	66.044	5.5
8	MP2A	Z	-114.391	5.5
9	MP2A	Mx	-.102	5.5
10	MP2B	X	50.348	.5
11	MP2B	Z	-87.206	.5
12	MP2B	Mx	.049	.5
13	MP2B	X	50.348	5.5
14	MP2B	Z	-87.206	5.5
15	MP2B	Mx	.049	5.5
16	MP2C	X	67.814	.5
17	MP2C	Z	-117.457	.5
18	MP2C	Mx	.078	.5
19	MP2C	X	67.814	5.5
20	MP2C	Z	-117.457	5.5
21	MP2C	Mx	.078	5.5
22	MP2A	X	66.044	.5
23	MP2A	Z	-114.391	.5
24	MP2A	Mx	.069	.5
25	MP2A	X	66.044	5.5
26	MP2A	Z	-114.391	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP2A	Mx	.069	5.5
28	MP2B	X	50.348	.5
29	MP2B	Z	-87.206	.5
30	MP2B	Mx	-.002	.5
31	MP2B	X	50.348	5.5
32	MP2B	Z	-87.206	5.5
33	MP2B	Mx	-.002	5.5
34	MP2C	X	67.814	.5
35	MP2C	Z	-117.457	.5
36	MP2C	Mx	-.107	.5
37	MP2C	X	67.814	5.5
38	MP2C	Z	-117.457	5.5
39	MP2C	Mx	-.107	5.5
40	MP3A	X	11.279	2
41	MP3A	Z	-19.535	2
42	MP3A	Mx	-.003	2
43	MP3B	X	4.095	2
44	MP3B	Z	-7.094	2
45	MP3B	Mx	.002	2
46	MP3C	X	12.089	2
47	MP3C	Z	-20.938	2
48	MP3C	Mx	-.003	2
49	MP2A	X	5.416	5.08
50	MP2A	Z	-9.381	5.08
51	MP2A	Mx	.001	5.08
52	MP2B	X	4.272	5.08
53	MP2B	Z	-7.399	5.08
54	MP2B	Mx	-.002	5.08
55	MP2C	X	5.545	5.08
56	MP2C	Z	-9.605	5.08
57	MP2C	Mx	.001	5.08
58	MP2A	X	22.561	1.58
59	MP2A	Z	-39.077	1.58
60	MP2A	Mx	-.025	1.58
61	MP2B	X	17.441	1.58
62	MP2B	Z	-30.208	1.58
63	MP2B	Mx	.001	1.58
64	MP2C	X	23.138	1.58
65	MP2C	Z	-40.077	1.58
66	MP2C	Mx	.038	1.58
67	MP2A	X	21.807	1.84
68	MP2A	Z	-37.772	1.84
69	MP2A	Mx	.035	1.84
70	MP2B	X	14.78	1.84
71	MP2B	Z	-25.599	1.84
72	MP2B	Mx	-.015	1.84
73	MP2C	X	22.6	1.84
74	MP2C	Z	-39.145	1.84
75	MP2C	Mx	-.028	1.84
76	MP1A	X	25.991	2.9
77	MP1A	Z	-45.017	2.9
78	MP1A	Mx	-.006	2.9
79	MP1A	X	25.991	4.3
80	MP1A	Z	-45.017	4.3
81	MP1A	Mx	-.006	4.3
82	MP1B	X	13.09	2.9
83	MP1B	Z	-22.672	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP1B	Mx	.006	2.9
85	MP1B	X	13.09	4.3
86	MP1B	Z	-22.672	4.3
87	MP1B	Mx	.006	4.3
88	MP1C	X	27.446	2.9
89	MP1C	Z	-47.537	2.9
90	MP1C	Mx	-.006	2.9
91	MP1C	X	27.446	4.3
92	MP1C	Z	-47.537	4.3
93	MP1C	Mx	-.006	4.3
94	MP2A	X	26.571	7
95	MP2A	Z	-46.022	7
96	MP2A	Mx	.007	7
97	MP2B	X	15.139	7
98	MP2B	Z	-26.221	7
99	MP2B	Mx	-.007	7
100	MP2C	X	27.86	7
101	MP2C	Z	-48.255	7
102	MP2C	Mx	.006	7
103	DC	X	41.236	1
104	DC	Z	-71.423	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	66.203	1
2	M93	Z	-38.223	1
3	M93	Mx	0	1
4	MP2A	X	92.918	.5
5	MP2A	Z	-53.646	.5
6	MP2A	Mx	-.063	.5
7	MP2A	X	92.918	5.5
8	MP2A	Z	-53.646	5.5
9	MP2A	Mx	-.063	5.5
10	MP2B	X	83.477	.5
11	MP2B	Z	-48.195	.5
12	MP2B	Mx	.011	.5
13	MP2B	X	83.477	5.5
14	MP2B	Z	-48.195	5.5
15	MP2B	Mx	.011	5.5
16	MP2C	X	124.801	.5
17	MP2C	Z	-72.054	.5
18	MP2C	Mx	.111	.5
19	MP2C	X	124.801	5.5
20	MP2C	Z	-72.054	5.5
21	MP2C	Mx	.111	5.5
22	MP2A	X	92.918	.5
23	MP2A	Z	-53.646	.5
24	MP2A	Mx	.017	.5
25	MP2A	X	92.918	5.5
26	MP2A	Z	-53.646	5.5
27	MP2A	Mx	.017	5.5
28	MP2B	X	83.477	.5
29	MP2B	Z	-48.195	.5
30	MP2B	Mx	.036	.5
31	MP2B	X	83.477	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP2B	Z	-48.195	5.5
33	MP2B	Mx	.036	5.5
34	MP2C	X	124.801	.5
35	MP2C	Z	-72.054	.5
36	MP2C	Mx	-.105	.5
37	MP2C	X	124.801	5.5
38	MP2C	Z	-72.054	5.5
39	MP2C	Mx	-.105	5.5
40	MP3A	X	9.708	2
41	MP3A	Z	-5.605	2
42	MP3A	Mx	-.002	2
43	MP3B	X	5.387	2
44	MP3B	Z	-3.11	2
45	MP3B	Mx	.002	2
46	MP3C	X	24.299	2
47	MP3C	Z	-14.029	2
48	MP3C	Mx	.000611	2
49	MP2A	X	7.815	5.08
50	MP2A	Z	-4.512	5.08
51	MP2A	Mx	.002	5.08
52	MP2B	X	7.127	5.08
53	MP2B	Z	-4.115	5.08
54	MP2B	Mx	-.002	5.08
55	MP2C	X	10.14	5.08
56	MP2C	Z	-5.854	5.08
57	MP2C	Mx	-.000255	5.08
58	MP2A	X	32.072	1.58
59	MP2A	Z	-18.517	1.58
60	MP2A	Mx	-.007	1.58
61	MP2B	X	28.992	1.58
62	MP2B	Z	-16.738	1.58
63	MP2B	Mx	-.013	1.58
64	MP2C	X	42.473	1.58
65	MP2C	Z	-24.522	1.58
66	MP2C	Mx	.038	1.58
67	MP2A	X	28.157	1.84
68	MP2A	Z	-16.256	1.84
69	MP2A	Mx	.02	1.84
70	MP2B	X	23.93	1.84
71	MP2B	Z	-13.816	1.84
72	MP2B	Mx	-.003	1.84
73	MP2C	X	42.433	1.84
74	MP2C	Z	-24.499	1.84
75	MP2C	Mx	-.04	1.84
76	MP1A	X	27.367	2.9
77	MP1A	Z	-15.801	2.9
78	MP1A	Mx	-.007	2.9
79	MP1A	X	27.367	4.3
80	MP1A	Z	-15.801	4.3
81	MP1A	Mx	-.007	4.3
82	MP1B	X	19.607	2.9
83	MP1B	Z	-11.32	2.9
84	MP1B	Mx	.006	2.9
85	MP1B	X	19.607	4.3
86	MP1B	Z	-11.32	4.3
87	MP1B	Mx	.006	4.3
88	MP1C	X	53.574	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP1C	Z	-30.931	2.9
90	MP1C	Mx	.001	2.9
91	MP1C	X	53.574	4.3
92	MP1C	Z	-30.931	4.3
93	MP1C	Mx	.001	4.3
94	MP2A	X	30.382	7
95	MP2A	Z	-17.541	7
96	MP2A	Mx	.008	7
97	MP2B	X	23.505	7
98	MP2B	Z	-13.571	7
99	MP2B	Mx	-.007	7
100	MP2C	X	53.604	7
101	MP2C	Z	-30.948	7
102	MP2C	Mx	-.001	7
103	DC	X	66.203	1
104	DC	Z	-38.223	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	82.472	1
2	M93	Z	0	1
3	M93	Mx	0	1
4	MP2A	X	94.896	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	-.024	.5
7	MP2A	X	94.896	5.5
8	MP2A	Z	0	5.5
9	MP2A	Mx	-.024	5.5
10	MP2B	X	115.385	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	-.034	.5
13	MP2B	X	115.385	5.5
14	MP2B	Z	0	5.5
15	MP2B	Mx	-.034	5.5
16	MP2C	X	128.17	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	.097	.5
19	MP2C	X	128.17	5.5
20	MP2C	Z	0	5.5
21	MP2C	Mx	.097	5.5
22	MP2A	X	94.896	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.024	.5
25	MP2A	X	94.896	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.024	5.5
28	MP2B	X	115.385	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	.078	.5
31	MP2B	X	115.385	5.5
32	MP2B	Z	0	5.5
33	MP2B	Mx	.078	5.5
34	MP2C	X	128.17	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	-.06	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP2C	X	128.17	5.5
38	MP2C	Z	0	5.5
39	MP2C	Mx	-.06	5.5
40	MP3A	X	5.536	2
41	MP3A	Z	0	2
42	MP3A	Mx	-.001	2
43	MP3B	X	14.913	2
44	MP3B	Z	0	2
45	MP3B	Mx	.003	2
46	MP3C	X	20.765	2
47	MP3C	Z	0	2
48	MP3C	Mx	.003	2
49	MP2A	X	8.12	5.08
50	MP2A	Z	0	5.08
51	MP2A	Mx	.002	5.08
52	MP2B	X	9.614	5.08
53	MP2B	Z	0	5.08
54	MP2B	Mx	-.002	5.08
55	MP2C	X	10.547	5.08
56	MP2C	Z	0	5.08
57	MP2C	Mx	-.002	5.08
58	MP2A	X	32.989	1.58
59	MP2A	Z	0	1.58
60	MP2A	Mx	.008	1.58
61	MP2B	X	39.673	1.58
62	MP2B	Z	0	1.58
63	MP2B	Mx	-.028	1.58
64	MP2C	X	43.844	1.58
65	MP2C	Z	0	1.58
66	MP2C	Mx	.022	1.58
67	MP2A	X	26.962	1.84
68	MP2A	Z	0	1.84
69	MP2A	Mx	.007	1.84
70	MP2B	X	36.136	1.84
71	MP2B	Z	0	1.84
72	MP2B	Mx	.011	1.84
73	MP2C	X	41.861	1.84
74	MP2C	Z	0	1.84
75	MP2C	Mx	-.033	1.84
76	MP1A	X	21.411	2.9
77	MP1A	Z	0	2.9
78	MP1A	Mx	-.005	2.9
79	MP1A	X	21.411	4.3
80	MP1A	Z	0	4.3
81	MP1A	Mx	-.005	4.3
82	MP1B	X	38.252	2.9
83	MP1B	Z	0	2.9
84	MP1B	Mx	.007	2.9
85	MP1B	X	38.252	4.3
86	MP1B	Z	0	4.3
87	MP1B	Mx	.007	4.3
88	MP1C	X	48.761	2.9
89	MP1C	Z	0	2.9
90	MP1C	Mx	.007	2.9
91	MP1C	X	48.761	4.3
92	MP1C	Z	0	4.3
93	MP1C	Mx	.007	4.3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	MP2A	X	26.053	7
95	MP2A	Z	0	7
96	MP2A	Mx	.007	7
97	MP2B	X	40.976	7
98	MP2B	Z	0	7
99	MP2B	Mx	-.008	7
100	MP2C	X	50.289	7
101	MP2C	Z	0	7
102	MP2C	Mx	-.007	7
103	DC	X	82.472	1
104	DC	Z	0	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	81.861	1
2	M93	Z	47.263	1
3	M93	Mx	0	1
4	MP2A	X	92.918	.5
5	MP2A	Z	53.646	.5
6	MP2A	Mx	.017	.5
7	MP2A	X	92.918	5.5
8	MP2A	Z	53.646	5.5
9	MP2A	Mx	.017	5.5
10	MP2B	X	120.104	.5
11	MP2B	Z	69.342	.5
12	MP2B	Mx	-.086	.5
13	MP2B	X	120.104	5.5
14	MP2B	Z	69.342	5.5
15	MP2B	Mx	-.086	5.5
16	MP2C	X	89.852	.5
17	MP2C	Z	51.876	.5
18	MP2C	Mx	.056	.5
19	MP2C	X	89.852	5.5
20	MP2C	Z	51.876	5.5
21	MP2C	Mx	.056	5.5
22	MP2A	X	92.918	.5
23	MP2A	Z	53.646	.5
24	MP2A	Mx	-.063	.5
25	MP2A	X	92.918	5.5
26	MP2A	Z	53.646	5.5
27	MP2A	Mx	-.063	5.5
28	MP2B	X	120.104	.5
29	MP2B	Z	69.342	.5
30	MP2B	Mx	.11	.5
31	MP2B	X	120.104	5.5
32	MP2B	Z	69.342	5.5
33	MP2B	Mx	.11	5.5
34	MP2C	X	89.852	.5
35	MP2C	Z	51.876	.5
36	MP2C	Mx	-.009	.5
37	MP2C	X	89.852	5.5
38	MP2C	Z	51.876	5.5
39	MP2C	Mx	-.009	5.5
40	MP3A	X	9.708	2
41	MP3A	Z	5.605	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP3A	Mx	-.002	2
43	MP3B	X	22.149	2
44	MP3B	Z	12.788	2
45	MP3B	Mx	.002	2
46	MP3C	X	8.305	2
47	MP3C	Z	4.795	2
48	MP3C	Mx	.002	2
49	MP2A	X	7.815	5.08
50	MP2A	Z	4.512	5.08
51	MP2A	Mx	.002	5.08
52	MP2B	X	9.798	5.08
53	MP2B	Z	5.657	5.08
54	MP2B	Mx	-.000967	5.08
55	MP2C	X	7.592	5.08
56	MP2C	Z	4.383	5.08
57	MP2C	Mx	-.002	5.08
58	MP2A	X	32.072	1.58
59	MP2A	Z	18.517	1.58
60	MP2A	Mx	.023	1.58
61	MP2B	X	40.94	1.58
62	MP2B	Z	23.637	1.58
63	MP2B	Mx	-.039	1.58
64	MP2C	X	31.071	1.58
65	MP2C	Z	17.939	1.58
66	MP2C	Mx	.004	1.58
67	MP2A	X	28.157	1.84
68	MP2A	Z	16.256	1.84
69	MP2A	Mx	-.006	1.84
70	MP2B	X	40.33	1.84
71	MP2B	Z	23.284	1.84
72	MP2B	Mx	.031	1.84
73	MP2C	X	26.784	1.84
74	MP2C	Z	15.464	1.84
75	MP2C	Mx	-.017	1.84
76	MP1A	X	27.367	2.9
77	MP1A	Z	15.801	2.9
78	MP1A	Mx	-.007	2.9
79	MP1A	X	27.367	4.3
80	MP1A	Z	15.801	4.3
81	MP1A	Mx	-.007	4.3
82	MP1B	X	49.713	2.9
83	MP1B	Z	28.702	2.9
84	MP1B	Mx	.005	2.9
85	MP1B	X	49.713	4.3
86	MP1B	Z	28.702	4.3
87	MP1B	Mx	.005	4.3
88	MP1C	X	24.847	2.9
89	MP1C	Z	14.345	2.9
90	MP1C	Mx	.007	2.9
91	MP1C	X	24.847	4.3
92	MP1C	Z	14.345	4.3
93	MP1C	Mx	.007	4.3
94	MP2A	X	30.382	7
95	MP2A	Z	17.541	7
96	MP2A	Mx	.008	7
97	MP2B	X	50.183	7
98	MP2B	Z	28.973	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
99	MP2B	Mx	-.005	7
100	MP2C	X	28.149	7
101	MP2C	Z	16.252	7
102	MP2C	Mx	-.007	7
103	DC	X	81.861	1
104	DC	Z	47.263	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	50.276	1
2	M93	Z	87.081	1
3	M93	Mx	0	1
4	MP2A	X	66.044	.5
5	MP2A	Z	114.391	.5
6	MP2A	Mx	.069	.5
7	MP2A	X	66.044	5.5
8	MP2A	Z	114.391	5.5
9	MP2A	Mx	.069	5.5
10	MP2B	X	71.495	.5
11	MP2B	Z	123.832	.5
12	MP2B	Mx	-.112	.5
13	MP2B	X	71.495	5.5
14	MP2B	Z	123.832	5.5
15	MP2B	Mx	-.112	5.5
16	MP2C	X	47.636	.5
17	MP2C	Z	82.508	.5
18	MP2C	Mx	.018	.5
19	MP2C	X	47.636	5.5
20	MP2C	Z	82.508	5.5
21	MP2C	Mx	.018	5.5
22	MP2A	X	66.044	.5
23	MP2A	Z	114.391	.5
24	MP2A	Mx	-.102	.5
25	MP2A	X	66.044	5.5
26	MP2A	Z	114.391	5.5
27	MP2A	Mx	-.102	5.5
28	MP2B	X	71.495	.5
29	MP2B	Z	123.832	.5
30	MP2B	Mx	.099	.5
31	MP2B	X	71.495	5.5
32	MP2B	Z	123.832	5.5
33	MP2B	Mx	.099	5.5
34	MP2C	X	47.636	.5
35	MP2C	Z	82.508	.5
36	MP2C	Mx	.03	.5
37	MP2C	X	47.636	5.5
38	MP2C	Z	82.508	5.5
39	MP2C	Mx	.03	5.5
40	MP3A	X	11.279	2
41	MP3A	Z	19.535	2
42	MP3A	Mx	-.003	2
43	MP3B	X	13.773	2
44	MP3B	Z	23.856	2
45	MP3B	Mx	-.001	2
46	MP3C	X	2.854	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP3C	Z	4.944	2
48	MP3C	Mx	.001	2
49	MP2A	X	5.416	5.08
50	MP2A	Z	9.381	5.08
51	MP2A	Mx	.001	5.08
52	MP2B	X	5.814	5.08
53	MP2B	Z	10.07	5.08
54	MP2B	Mx	.000505	5.08
55	MP2C	X	4.074	5.08
56	MP2C	Z	7.056	5.08
57	MP2C	Mx	-.002	5.08
58	MP2A	X	22.561	1.58
59	MP2A	Z	39.077	1.58
60	MP2A	Mx	.037	1.58
61	MP2B	X	24.339	1.58
62	MP2B	Z	42.157	1.58
63	MP2B	Mx	-.036	1.58
64	MP2C	X	16.556	1.58
65	MP2C	Z	28.676	1.58
66	MP2C	Mx	-.011	1.58
67	MP2A	X	21.807	1.84
68	MP2A	Z	37.772	1.84
69	MP2A	Mx	-.024	1.84
70	MP2B	X	24.248	1.84
71	MP2B	Z	41.999	1.84
72	MP2B	Mx	.04	1.84
73	MP2C	X	13.565	1.84
74	MP2C	Z	23.496	1.84
75	MP2C	Mx	-.005	1.84
76	MP1A	X	25.991	2.9
77	MP1A	Z	45.017	2.9
78	MP1A	Mx	-.006	2.9
79	MP1A	X	25.991	4.3
80	MP1A	Z	45.017	4.3
81	MP1A	Mx	-.006	4.3
82	MP1B	X	30.471	2.9
83	MP1B	Z	52.777	2.9
84	MP1B	Mx	-.003	2.9
85	MP1B	X	30.471	4.3
86	MP1B	Z	52.777	4.3
87	MP1B	Mx	-.003	4.3
88	MP1C	X	10.86	2.9
89	MP1C	Z	18.811	2.9
90	MP1C	Mx	.005	2.9
91	MP1C	X	10.86	4.3
92	MP1C	Z	18.811	4.3
93	MP1C	Mx	.005	4.3
94	MP2A	X	26.571	7
95	MP2A	Z	46.022	7
96	MP2A	Mx	.007	7
97	MP2B	X	30.541	7
98	MP2B	Z	52.899	7
99	MP2B	Mx	.003	7
100	MP2C	X	13.164	7
101	MP2C	Z	22.8	7
102	MP2C	Mx	-.007	7
103	DC	X	50.276	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	DC	Z	87.081	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	0	1
2	M93	Z	94.526	1
3	M93	Mx	0	1
4	MP2A	X	0	.5
5	MP2A	Z	144.484	.5
6	MP2A	Mx	.108	.5
7	MP2A	X	0	5.5
8	MP2A	Z	144.484	5.5
9	MP2A	Mx	.108	5.5
10	MP2B	X	0	.5
11	MP2B	Z	123.996	.5
12	MP2B	Mx	-.091	.5
13	MP2B	X	0	5.5
14	MP2B	Z	123.996	5.5
15	MP2B	Mx	-.091	5.5
16	MP2C	X	0	.5
17	MP2C	Z	111.21	.5
18	MP2C	Mx	-.025	.5
19	MP2C	X	0	5.5
20	MP2C	Z	111.21	5.5
21	MP2C	Mx	-.025	5.5
22	MP2A	X	0	.5
23	MP2A	Z	144.484	.5
24	MP2A	Mx	-.108	.5
25	MP2A	X	0	5.5
26	MP2A	Z	144.484	5.5
27	MP2A	Mx	-.108	5.5
28	MP2B	X	0	.5
29	MP2B	Z	123.996	.5
30	MP2B	Mx	.051	.5
31	MP2B	X	0	5.5
32	MP2B	Z	123.996	5.5
33	MP2B	Mx	.051	5.5
34	MP2C	X	0	.5
35	MP2C	Z	111.21	.5
36	MP2C	Mx	.071	.5
37	MP2C	X	0	5.5
38	MP2C	Z	111.21	5.5
39	MP2C	Mx	.071	5.5
40	MP3A	X	0	2
41	MP3A	Z	28.231	2
42	MP3A	Mx	0	2
43	MP3B	X	0	2
44	MP3B	Z	18.854	2
45	MP3B	Mx	-.003	2
46	MP3C	X	0	2
47	MP3C	Z	13.003	2
48	MP3C	Mx	.003	2
49	MP2A	X	0	5.08
50	MP2A	Z	11.736	5.08
51	MP2A	Mx	0	5.08

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP2B	X	0	5.08
53	MP2B	Z	10.242	5.08
54	MP2B	Mx	.002	5.08
55	MP2C	X	0	5.08
56	MP2C	Z	9.31	5.08
57	MP2C	Mx	-.002	5.08
58	MP2A	X	0	1.58
59	MP2A	Z	49.166	1.58
60	MP2A	Mx	.039	1.58
61	MP2B	X	0	1.58
62	MP2B	Z	42.482	1.58
63	MP2B	Mx	-.019	1.58
64	MP2C	X	0	1.58
65	MP2C	Z	38.311	1.58
66	MP2C	Mx	-.025	1.58
67	MP2A	X	0	1.84
68	MP2A	Z	49.166	1.84
69	MP2A	Mx	-.039	1.84
70	MP2B	X	0	1.84
71	MP2B	Z	39.992	1.84
72	MP2B	Mx	.031	1.84
73	MP2C	X	0	1.84
74	MP2C	Z	34.267	1.84
75	MP2C	Mx	.009	1.84
76	MP1A	X	0	2.9
77	MP1A	Z	62.171	2.9
78	MP1A	Mx	0	2.9
79	MP1A	X	0	4.3
80	MP1A	Z	62.171	4.3
81	MP1A	Mx	0	4.3
82	MP1B	X	0	2.9
83	MP1B	Z	45.33	2.9
84	MP1B	Mx	-.007	2.9
85	MP1B	X	0	4.3
86	MP1B	Z	45.33	4.3
87	MP1B	Mx	-.007	4.3
88	MP1C	X	0	2.9
89	MP1C	Z	34.821	2.9
90	MP1C	Mx	.007	2.9
91	MP1C	X	0	4.3
92	MP1C	Z	34.821	4.3
93	MP1C	Mx	.007	4.3
94	MP2A	X	0	7
95	MP2A	Z	62.171	7
96	MP2A	Mx	0	7
97	MP2B	X	0	7
98	MP2B	Z	47.248	7
99	MP2B	Mx	.008	7
100	MP2C	X	0	7
101	MP2C	Z	37.935	7
102	MP2C	Mx	-.008	7
103	DC	X	0	1
104	DC	Z	94.526	1
105	DC	Mx	0	1

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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-41.236	1
2	M93	Z	71.423	1
3	M93	Mx	0	1
4	MP2A	X	-66.044	.5
5	MP2A	Z	114.391	.5
6	MP2A	Mx	.102	.5
7	MP2A	X	-66.044	5.5
8	MP2A	Z	114.391	5.5
9	MP2A	Mx	.102	5.5
10	MP2B	X	-50.348	.5
11	MP2B	Z	87.206	.5
12	MP2B	Mx	-.049	.5
13	MP2B	X	-50.348	5.5
14	MP2B	Z	87.206	5.5
15	MP2B	Mx	-.049	5.5
16	MP2C	X	-67.814	.5
17	MP2C	Z	117.457	.5
18	MP2C	Mx	-.078	.5
19	MP2C	X	-67.814	5.5
20	MP2C	Z	117.457	5.5
21	MP2C	Mx	-.078	5.5
22	MP2A	X	-66.044	.5
23	MP2A	Z	114.391	.5
24	MP2A	Mx	-.069	.5
25	MP2A	X	-66.044	5.5
26	MP2A	Z	114.391	5.5
27	MP2A	Mx	-.069	5.5
28	MP2B	X	-50.348	.5
29	MP2B	Z	87.206	.5
30	MP2B	Mx	.002	.5
31	MP2B	X	-50.348	5.5
32	MP2B	Z	87.206	5.5
33	MP2B	Mx	.002	5.5
34	MP2C	X	-67.814	.5
35	MP2C	Z	117.457	.5
36	MP2C	Mx	.107	.5
37	MP2C	X	-67.814	5.5
38	MP2C	Z	117.457	5.5
39	MP2C	Mx	.107	5.5
40	MP3A	X	-11.279	2
41	MP3A	Z	19.535	2
42	MP3A	Mx	.003	2
43	MP3B	X	-4.095	2
44	MP3B	Z	7.094	2
45	MP3B	Mx	-.002	2
46	MP3C	X	-12.089	2
47	MP3C	Z	20.938	2
48	MP3C	Mx	.003	2
49	MP2A	X	-5.416	5.08
50	MP2A	Z	9.381	5.08
51	MP2A	Mx	-.001	5.08
52	MP2B	X	-4.272	5.08
53	MP2B	Z	7.399	5.08
54	MP2B	Mx	.002	5.08
55	MP2C	X	-5.545	5.08
56	MP2C	Z	9.605	5.08
57	MP2C	Mx	-.001	5.08

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	-22.561	1.58
59	MP2A	Z	39.077	1.58
60	MP2A	Mx	.025	1.58
61	MP2B	X	-17.441	1.58
62	MP2B	Z	30.208	1.58
63	MP2B	Mx	-.001	1.58
64	MP2C	X	-23.138	1.58
65	MP2C	Z	40.077	1.58
66	MP2C	Mx	-.038	1.58
67	MP2A	X	-21.807	1.84
68	MP2A	Z	37.772	1.84
69	MP2A	Mx	-.035	1.84
70	MP2B	X	-14.78	1.84
71	MP2B	Z	25.599	1.84
72	MP2B	Mx	.015	1.84
73	MP2C	X	-22.6	1.84
74	MP2C	Z	39.145	1.84
75	MP2C	Mx	.028	1.84
76	MP1A	X	-25.991	2.9
77	MP1A	Z	45.017	2.9
78	MP1A	Mx	.006	2.9
79	MP1A	X	-25.991	4.3
80	MP1A	Z	45.017	4.3
81	MP1A	Mx	.006	4.3
82	MP1B	X	-13.09	2.9
83	MP1B	Z	22.672	2.9
84	MP1B	Mx	-.006	2.9
85	MP1B	X	-13.09	4.3
86	MP1B	Z	22.672	4.3
87	MP1B	Mx	-.006	4.3
88	MP1C	X	-27.446	2.9
89	MP1C	Z	47.537	2.9
90	MP1C	Mx	.006	2.9
91	MP1C	X	-27.446	4.3
92	MP1C	Z	47.537	4.3
93	MP1C	Mx	.006	4.3
94	MP2A	X	-26.571	7
95	MP2A	Z	46.022	7
96	MP2A	Mx	-.007	7
97	MP2B	X	-15.139	7
98	MP2B	Z	26.221	7
99	MP2B	Mx	.007	7
100	MP2C	X	-27.86	7
101	MP2C	Z	48.255	7
102	MP2C	Mx	-.006	7
103	DC	X	-41.236	1
104	DC	Z	71.423	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-66.203	1
2	M93	Z	38.223	1
3	M93	Mx	0	1
4	MP2A	X	-92.918	.5
5	MP2A	Z	53.646	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.063	.5
7	MP2A	X	-92.918	5.5
8	MP2A	Z	53.646	5.5
9	MP2A	Mx	.063	5.5
10	MP2B	X	-83.477	.5
11	MP2B	Z	48.195	.5
12	MP2B	Mx	-.011	.5
13	MP2B	X	-83.477	5.5
14	MP2B	Z	48.195	5.5
15	MP2B	Mx	-.011	5.5
16	MP2C	X	-124.801	.5
17	MP2C	Z	72.054	.5
18	MP2C	Mx	-.111	.5
19	MP2C	X	-124.801	5.5
20	MP2C	Z	72.054	5.5
21	MP2C	Mx	-.111	5.5
22	MP2A	X	-92.918	.5
23	MP2A	Z	53.646	.5
24	MP2A	Mx	-.017	.5
25	MP2A	X	-92.918	5.5
26	MP2A	Z	53.646	5.5
27	MP2A	Mx	-.017	5.5
28	MP2B	X	-83.477	.5
29	MP2B	Z	48.195	.5
30	MP2B	Mx	-.036	.5
31	MP2B	X	-83.477	5.5
32	MP2B	Z	48.195	5.5
33	MP2B	Mx	-.036	5.5
34	MP2C	X	-124.801	.5
35	MP2C	Z	72.054	.5
36	MP2C	Mx	.105	.5
37	MP2C	X	-124.801	5.5
38	MP2C	Z	72.054	5.5
39	MP2C	Mx	.105	5.5
40	MP3A	X	-9.708	2
41	MP3A	Z	5.605	2
42	MP3A	Mx	.002	2
43	MP3B	X	-5.387	2
44	MP3B	Z	3.11	2
45	MP3B	Mx	-.002	2
46	MP3C	X	-24.299	2
47	MP3C	Z	14.029	2
48	MP3C	Mx	-.000611	2
49	MP2A	X	-7.815	5.08
50	MP2A	Z	4.512	5.08
51	MP2A	Mx	-.002	5.08
52	MP2B	X	-7.127	5.08
53	MP2B	Z	4.115	5.08
54	MP2B	Mx	.002	5.08
55	MP2C	X	-10.14	5.08
56	MP2C	Z	5.854	5.08
57	MP2C	Mx	.000255	5.08
58	MP2A	X	-32.072	1.58
59	MP2A	Z	18.517	1.58
60	MP2A	Mx	.007	1.58
61	MP2B	X	-28.992	1.58
62	MP2B	Z	16.738	1.58

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2B	Mx	.013	1.58
64	MP2C	X	-42.473	1.58
65	MP2C	Z	24.522	1.58
66	MP2C	Mx	-.038	1.58
67	MP2A	X	-28.157	1.84
68	MP2A	Z	16.256	1.84
69	MP2A	Mx	-.02	1.84
70	MP2B	X	-23.93	1.84
71	MP2B	Z	13.816	1.84
72	MP2B	Mx	.003	1.84
73	MP2C	X	-42.433	1.84
74	MP2C	Z	24.499	1.84
75	MP2C	Mx	.04	1.84
76	MP1A	X	-27.367	2.9
77	MP1A	Z	15.801	2.9
78	MP1A	Mx	.007	2.9
79	MP1A	X	-27.367	4.3
80	MP1A	Z	15.801	4.3
81	MP1A	Mx	.007	4.3
82	MP1B	X	-19.607	2.9
83	MP1B	Z	11.32	2.9
84	MP1B	Mx	-.006	2.9
85	MP1B	X	-19.607	4.3
86	MP1B	Z	11.32	4.3
87	MP1B	Mx	-.006	4.3
88	MP1C	X	-53.574	2.9
89	MP1C	Z	30.931	2.9
90	MP1C	Mx	-.001	2.9
91	MP1C	X	-53.574	4.3
92	MP1C	Z	30.931	4.3
93	MP1C	Mx	-.001	4.3
94	MP2A	X	-30.382	7
95	MP2A	Z	17.541	7
96	MP2A	Mx	-.008	7
97	MP2B	X	-23.505	7
98	MP2B	Z	13.571	7
99	MP2B	Mx	.007	7
100	MP2C	X	-53.604	7
101	MP2C	Z	30.948	7
102	MP2C	Mx	.001	7
103	DC	X	-66.203	1
104	DC	Z	38.223	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-82.472	1
2	M93	Z	0	1
3	M93	Mx	0	1
4	MP2A	X	-94.896	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	.024	.5
7	MP2A	X	-94.896	5.5
8	MP2A	Z	0	5.5
9	MP2A	Mx	.024	5.5
10	MP2B	X	-115.385	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	0	.5
12	MP2B	Mx	.034	.5
13	MP2B	X	-115.385	5.5
14	MP2B	Z	0	5.5
15	MP2B	Mx	.034	5.5
16	MP2C	X	-128.17	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	-.097	.5
19	MP2C	X	-128.17	5.5
20	MP2C	Z	0	5.5
21	MP2C	Mx	-.097	5.5
22	MP2A	X	-94.896	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.024	.5
25	MP2A	X	-94.896	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.024	5.5
28	MP2B	X	-115.385	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	-.078	.5
31	MP2B	X	-115.385	5.5
32	MP2B	Z	0	5.5
33	MP2B	Mx	-.078	5.5
34	MP2C	X	-128.17	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	.06	.5
37	MP2C	X	-128.17	5.5
38	MP2C	Z	0	5.5
39	MP2C	Mx	.06	5.5
40	MP3A	X	-5.536	2
41	MP3A	Z	0	2
42	MP3A	Mx	.001	2
43	MP3B	X	-14.913	2
44	MP3B	Z	0	2
45	MP3B	Mx	-.003	2
46	MP3C	X	-20.765	2
47	MP3C	Z	0	2
48	MP3C	Mx	-.003	2
49	MP2A	X	-8.12	5.08
50	MP2A	Z	0	5.08
51	MP2A	Mx	-.002	5.08
52	MP2B	X	-9.614	5.08
53	MP2B	Z	0	5.08
54	MP2B	Mx	.002	5.08
55	MP2C	X	-10.547	5.08
56	MP2C	Z	0	5.08
57	MP2C	Mx	.002	5.08
58	MP2A	X	-32.989	1.58
59	MP2A	Z	0	1.58
60	MP2A	Mx	-.008	1.58
61	MP2B	X	-39.673	1.58
62	MP2B	Z	0	1.58
63	MP2B	Mx	.028	1.58
64	MP2C	X	-43.844	1.58
65	MP2C	Z	0	1.58
66	MP2C	Mx	-.022	1.58
67	MP2A	X	-26.962	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2A	Z	0	1.84
69	MP2A	Mx	-.007	1.84
70	MP2B	X	-36.136	1.84
71	MP2B	Z	0	1.84
72	MP2B	Mx	-.011	1.84
73	MP2C	X	-41.861	1.84
74	MP2C	Z	0	1.84
75	MP2C	Mx	.033	1.84
76	MP1A	X	-21.411	2.9
77	MP1A	Z	0	2.9
78	MP1A	Mx	.005	2.9
79	MP1A	X	-21.411	4.3
80	MP1A	Z	0	4.3
81	MP1A	Mx	.005	4.3
82	MP1B	X	-38.252	2.9
83	MP1B	Z	0	2.9
84	MP1B	Mx	-.007	2.9
85	MP1B	X	-38.252	4.3
86	MP1B	Z	0	4.3
87	MP1B	Mx	-.007	4.3
88	MP1C	X	-48.761	2.9
89	MP1C	Z	0	2.9
90	MP1C	Mx	-.007	2.9
91	MP1C	X	-48.761	4.3
92	MP1C	Z	0	4.3
93	MP1C	Mx	-.007	4.3
94	MP2A	X	-26.053	7
95	MP2A	Z	0	7
96	MP2A	Mx	-.007	7
97	MP2B	X	-40.976	7
98	MP2B	Z	0	7
99	MP2B	Mx	.008	7
100	MP2C	X	-50.289	7
101	MP2C	Z	0	7
102	MP2C	Mx	.007	7
103	DC	X	-82.472	1
104	DC	Z	0	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-81.861	1
2	M93	Z	-47.263	1
3	M93	Mx	0	1
4	MP2A	X	-92.918	.5
5	MP2A	Z	-53.646	.5
6	MP2A	Mx	-.017	.5
7	MP2A	X	-92.918	5.5
8	MP2A	Z	-53.646	5.5
9	MP2A	Mx	-.017	5.5
10	MP2B	X	-120.104	.5
11	MP2B	Z	-69.342	.5
12	MP2B	Mx	.086	.5
13	MP2B	X	-120.104	5.5
14	MP2B	Z	-69.342	5.5
15	MP2B	Mx	.086	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	-89.852	.5
17	MP2C	Z	-51.876	.5
18	MP2C	Mx	-.056	.5
19	MP2C	X	-89.852	5.5
20	MP2C	Z	-51.876	5.5
21	MP2C	Mx	-.056	5.5
22	MP2A	X	-92.918	.5
23	MP2A	Z	-53.646	.5
24	MP2A	Mx	.063	.5
25	MP2A	X	-92.918	5.5
26	MP2A	Z	-53.646	5.5
27	MP2A	Mx	.063	5.5
28	MP2B	X	-120.104	.5
29	MP2B	Z	-69.342	.5
30	MP2B	Mx	-.11	.5
31	MP2B	X	-120.104	5.5
32	MP2B	Z	-69.342	5.5
33	MP2B	Mx	-.11	5.5
34	MP2C	X	-89.852	.5
35	MP2C	Z	-51.876	.5
36	MP2C	Mx	.009	.5
37	MP2C	X	-89.852	5.5
38	MP2C	Z	-51.876	5.5
39	MP2C	Mx	.009	5.5
40	MP3A	X	-9.708	2
41	MP3A	Z	-5.605	2
42	MP3A	Mx	.002	2
43	MP3B	X	-22.149	2
44	MP3B	Z	-12.788	2
45	MP3B	Mx	-.002	2
46	MP3C	X	-8.305	2
47	MP3C	Z	-4.795	2
48	MP3C	Mx	-.002	2
49	MP2A	X	-7.815	5.08
50	MP2A	Z	-4.512	5.08
51	MP2A	Mx	-.002	5.08
52	MP2B	X	-9.798	5.08
53	MP2B	Z	-5.657	5.08
54	MP2B	Mx	.000967	5.08
55	MP2C	X	-7.592	5.08
56	MP2C	Z	-4.383	5.08
57	MP2C	Mx	.002	5.08
58	MP2A	X	-32.072	1.58
59	MP2A	Z	-18.517	1.58
60	MP2A	Mx	-.023	1.58
61	MP2B	X	-40.94	1.58
62	MP2B	Z	-23.637	1.58
63	MP2B	Mx	.039	1.58
64	MP2C	X	-31.071	1.58
65	MP2C	Z	-17.939	1.58
66	MP2C	Mx	-.004	1.58
67	MP2A	X	-28.157	1.84
68	MP2A	Z	-16.256	1.84
69	MP2A	Mx	.006	1.84
70	MP2B	X	-40.33	1.84
71	MP2B	Z	-23.284	1.84
72	MP2B	Mx	-.031	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP2C	X	-26.784	1.84
74	MP2C	Z	-15.464	1.84
75	MP2C	Mx	.017	1.84
76	MP1A	X	-27.367	2.9
77	MP1A	Z	-15.801	2.9
78	MP1A	Mx	.007	2.9
79	MP1A	X	-27.367	4.3
80	MP1A	Z	-15.801	4.3
81	MP1A	Mx	.007	4.3
82	MP1B	X	-49.713	2.9
83	MP1B	Z	-28.702	2.9
84	MP1B	Mx	-.005	2.9
85	MP1B	X	-49.713	4.3
86	MP1B	Z	-28.702	4.3
87	MP1B	Mx	-.005	4.3
88	MP1C	X	-24.847	2.9
89	MP1C	Z	-14.345	2.9
90	MP1C	Mx	-.007	2.9
91	MP1C	X	-24.847	4.3
92	MP1C	Z	-14.345	4.3
93	MP1C	Mx	-.007	4.3
94	MP2A	X	-30.382	7
95	MP2A	Z	-17.541	7
96	MP2A	Mx	-.008	7
97	MP2B	X	-50.183	7
98	MP2B	Z	-28.973	7
99	MP2B	Mx	.005	7
100	MP2C	X	-28.149	7
101	MP2C	Z	-16.252	7
102	MP2C	Mx	.007	7
103	DC	X	-81.861	1
104	DC	Z	-47.263	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-50.276	1
2	M93	Z	-87.081	1
3	M93	Mx	0	1
4	MP2A	X	-66.044	.5
5	MP2A	Z	-114.391	.5
6	MP2A	Mx	-.069	.5
7	MP2A	X	-66.044	5.5
8	MP2A	Z	-114.391	5.5
9	MP2A	Mx	-.069	5.5
10	MP2B	X	-71.495	.5
11	MP2B	Z	-123.832	.5
12	MP2B	Mx	.112	.5
13	MP2B	X	-71.495	5.5
14	MP2B	Z	-123.832	5.5
15	MP2B	Mx	.112	5.5
16	MP2C	X	-47.636	.5
17	MP2C	Z	-82.508	.5
18	MP2C	Mx	-.018	.5
19	MP2C	X	-47.636	5.5
20	MP2C	Z	-82.508	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2C	Mx	-.018	5.5
22	MP2A	X	-66.044	.5
23	MP2A	Z	-114.391	.5
24	MP2A	Mx	.102	.5
25	MP2A	X	-66.044	5.5
26	MP2A	Z	-114.391	5.5
27	MP2A	Mx	.102	5.5
28	MP2B	X	-71.495	.5
29	MP2B	Z	-123.832	.5
30	MP2B	Mx	-.099	.5
31	MP2B	X	-71.495	5.5
32	MP2B	Z	-123.832	5.5
33	MP2B	Mx	-.099	5.5
34	MP2C	X	-47.636	.5
35	MP2C	Z	-82.508	.5
36	MP2C	Mx	-.03	.5
37	MP2C	X	-47.636	5.5
38	MP2C	Z	-82.508	5.5
39	MP2C	Mx	-.03	5.5
40	MP3A	X	-11.279	2
41	MP3A	Z	-19.535	2
42	MP3A	Mx	.003	2
43	MP3B	X	-13.773	2
44	MP3B	Z	-23.856	2
45	MP3B	Mx	.001	2
46	MP3C	X	-2.854	2
47	MP3C	Z	-4.944	2
48	MP3C	Mx	-.001	2
49	MP2A	X	-5.416	5.08
50	MP2A	Z	-9.381	5.08
51	MP2A	Mx	-.001	5.08
52	MP2B	X	-5.814	5.08
53	MP2B	Z	-10.07	5.08
54	MP2B	Mx	-.000505	5.08
55	MP2C	X	-4.074	5.08
56	MP2C	Z	-7.056	5.08
57	MP2C	Mx	.002	5.08
58	MP2A	X	-22.561	1.58
59	MP2A	Z	-39.077	1.58
60	MP2A	Mx	-.037	1.58
61	MP2B	X	-24.339	1.58
62	MP2B	Z	-42.157	1.58
63	MP2B	Mx	.036	1.58
64	MP2C	X	-16.556	1.58
65	MP2C	Z	-28.676	1.58
66	MP2C	Mx	.011	1.58
67	MP2A	X	-21.807	1.84
68	MP2A	Z	-37.772	1.84
69	MP2A	Mx	.024	1.84
70	MP2B	X	-24.248	1.84
71	MP2B	Z	-41.999	1.84
72	MP2B	Mx	-.04	1.84
73	MP2C	X	-13.565	1.84
74	MP2C	Z	-23.496	1.84
75	MP2C	Mx	.005	1.84
76	MP1A	X	-25.991	2.9
77	MP1A	Z	-45.017	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP1A	Mx	.006	2.9
79	MP1A	X	-25.991	4.3
80	MP1A	Z	-45.017	4.3
81	MP1A	Mx	.006	4.3
82	MP1B	X	-30.471	2.9
83	MP1B	Z	-52.777	2.9
84	MP1B	Mx	.003	2.9
85	MP1B	X	-30.471	4.3
86	MP1B	Z	-52.777	4.3
87	MP1B	Mx	.003	4.3
88	MP1C	X	-10.86	2.9
89	MP1C	Z	-18.811	2.9
90	MP1C	Mx	-.005	2.9
91	MP1C	X	-10.86	4.3
92	MP1C	Z	-18.811	4.3
93	MP1C	Mx	-.005	4.3
94	MP2A	X	-26.571	7
95	MP2A	Z	-46.022	7
96	MP2A	Mx	-.007	7
97	MP2B	X	-30.541	7
98	MP2B	Z	-52.899	7
99	MP2B	Mx	-.003	7
100	MP2C	X	-13.164	7
101	MP2C	Z	-22.8	7
102	MP2C	Mx	.007	7
103	DC	X	-50.276	1
104	DC	Z	-87.081	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	0	1
2	M93	Z	-25.624	1
3	M93	Mx	0	1
4	MP2A	X	0	.5
5	MP2A	Z	-29.417	.5
6	MP2A	Mx	-.022	.5
7	MP2A	X	0	5.5
8	MP2A	Z	-29.417	5.5
9	MP2A	Mx	-.022	5.5
10	MP2B	X	0	.5
11	MP2B	Z	-25.554	.5
12	MP2B	Mx	.019	.5
13	MP2B	X	0	5.5
14	MP2B	Z	-25.554	5.5
15	MP2B	Mx	.019	5.5
16	MP2C	X	0	.5
17	MP2C	Z	-23.144	.5
18	MP2C	Mx	.005	.5
19	MP2C	X	0	5.5
20	MP2C	Z	-23.144	5.5
21	MP2C	Mx	.005	5.5
22	MP2A	X	0	.5
23	MP2A	Z	-29.417	.5
24	MP2A	Mx	.022	.5
25	MP2A	X	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2A	Z	-29.417	5.5
27	MP2A	Mx	.022	5.5
28	MP2B	X	0	.5
29	MP2B	Z	-25.554	.5
30	MP2B	Mx	-.011	.5
31	MP2B	X	0	5.5
32	MP2B	Z	-25.554	5.5
33	MP2B	Mx	-.011	5.5
34	MP2C	X	0	.5
35	MP2C	Z	-23.144	.5
36	MP2C	Mx	-.015	.5
37	MP2C	X	0	5.5
38	MP2C	Z	-23.144	5.5
39	MP2C	Mx	-.015	5.5
40	MP3A	X	0	2
41	MP3A	Z	-6.797	2
42	MP3A	Mx	0	2
43	MP3B	X	0	2
44	MP3B	Z	-4.814	2
45	MP3B	Mx	.000774	2
46	MP3C	X	0	2
47	MP3C	Z	-3.577	2
48	MP3C	Mx	-.000733	2
49	MP2A	X	0	5.08
50	MP2A	Z	-3.201	5.08
51	MP2A	Mx	0	5.08
52	MP2B	X	0	5.08
53	MP2B	Z	-2.871	5.08
54	MP2B	Mx	-.000461	5.08
55	MP2C	X	0	5.08
56	MP2C	Z	-2.665	5.08
57	MP2C	Mx	.000546	5.08
58	MP2A	X	0	1.58
59	MP2A	Z	-9.173	1.58
60	MP2A	Mx	-.007	1.58
61	MP2B	X	0	1.58
62	MP2B	Z	-10.832	1.58
63	MP2B	Mx	.005	1.58
64	MP2C	X	0	1.58
65	MP2C	Z	-11.867	1.58
66	MP2C	Mx	.008	1.58
67	MP2A	X	0	1.84
68	MP2A	Z	-7.648	1.84
69	MP2A	Mx	.006	1.84
70	MP2B	X	0	1.84
71	MP2B	Z	-9.937	1.84
72	MP2B	Mx	-.008	1.84
73	MP2C	X	0	1.84
74	MP2C	Z	-11.365	1.84
75	MP2C	Mx	-.003	1.84
76	MP1A	X	0	2.9
77	MP1A	Z	-15.646	2.9
78	MP1A	Mx	0	2.9
79	MP1A	X	0	4.3
80	MP1A	Z	-15.646	4.3
81	MP1A	Mx	0	4.3
82	MP1B	X	0	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP1B	Z	-11.936	2.9
84	MP1B	Mx	.002	2.9
85	MP1B	X	0	4.3
86	MP1B	Z	-11.936	4.3
87	MP1B	Mx	.002	4.3
88	MP1C	X	0	2.9
89	MP1C	Z	-9.62	2.9
90	MP1C	Mx	-.002	2.9
91	MP1C	X	0	4.3
92	MP1C	Z	-9.62	4.3
93	MP1C	Mx	-.002	4.3
94	MP2A	X	0	7
95	MP2A	Z	-13.673	7
96	MP2A	Mx	0	7
97	MP2B	X	0	7
98	MP2B	Z	-10.683	7
99	MP2B	Mx	-.002	7
100	MP2C	X	0	7
101	MP2C	Z	-8.816	7
102	MP2C	Mx	.002	7
103	DC	X	0	1
104	DC	Z	-25.624	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	11.335	1
2	M93	Z	-19.632	1
3	M93	Mx	0	1
4	MP2A	X	13.54	.5
5	MP2A	Z	-23.452	.5
6	MP2A	Mx	-.021	.5
7	MP2A	X	13.54	5.5
8	MP2A	Z	-23.452	5.5
9	MP2A	Mx	-.021	5.5
10	MP2B	X	10.581	.5
11	MP2B	Z	-18.326	.5
12	MP2B	Mx	.01	.5
13	MP2B	X	10.581	5.5
14	MP2B	Z	-18.326	5.5
15	MP2B	Mx	.01	5.5
16	MP2C	X	13.874	.5
17	MP2C	Z	-24.03	.5
18	MP2C	Mx	.016	.5
19	MP2C	X	13.874	5.5
20	MP2C	Z	-24.03	5.5
21	MP2C	Mx	.016	5.5
22	MP2A	X	13.54	.5
23	MP2A	Z	-23.452	.5
24	MP2A	Mx	.014	.5
25	MP2A	X	13.54	5.5
26	MP2A	Z	-23.452	5.5
27	MP2A	Mx	.014	5.5
28	MP2B	X	10.581	.5
29	MP2B	Z	-18.326	.5
30	MP2B	Mx	-.000457	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2B	X	10.581	5.5
32	MP2B	Z	-18.326	5.5
33	MP2B	Mx	-.000457	5.5
34	MP2C	X	13.874	.5
35	MP2C	Z	-24.03	.5
36	MP2C	Mx	-.022	.5
37	MP2C	X	13.874	5.5
38	MP2C	Z	-24.03	5.5
39	MP2C	Mx	-.022	5.5
40	MP3A	X	2.799	2
41	MP3A	Z	-4.848	2
42	MP3A	Mx	-.0007	2
43	MP3B	X	1.28	2
44	MP3B	Z	-2.217	2
45	MP3B	Mx	.000601	2
46	MP3C	X	2.97	2
47	MP3C	Z	-5.144	2
48	MP3C	Mx	-.000628	2
49	MP2A	X	1.501	5.08
50	MP2A	Z	-2.599	5.08
51	MP2A	Mx	.000375	5.08
52	MP2B	X	1.248	5.08
53	MP2B	Z	-2.161	5.08
54	MP2B	Mx	-.000586	5.08
55	MP2C	X	1.529	5.08
56	MP2C	Z	-2.649	5.08
57	MP2C	Mx	.000323	5.08
58	MP2A	X	5.088	1.58
59	MP2A	Z	-8.813	1.58
60	MP2A	Mx	-.006	1.58
61	MP2B	X	6.359	1.58
62	MP2B	Z	-11.014	1.58
63	MP2B	Mx	.000456	1.58
64	MP2C	X	4.945	1.58
65	MP2C	Z	-8.565	1.58
66	MP2C	Mx	.008	1.58
67	MP2A	X	4.516	1.84
68	MP2A	Z	-7.823	1.84
69	MP2A	Mx	.007	1.84
70	MP2B	X	6.27	1.84
71	MP2B	Z	-10.859	1.84
72	MP2B	Mx	-.006	1.84
73	MP2C	X	4.319	1.84
74	MP2C	Z	-7.48	1.84
75	MP2C	Mx	-.005	1.84
76	MP1A	X	6.701	2.9
77	MP1A	Z	-11.606	2.9
78	MP1A	Mx	-.002	2.9
79	MP1A	X	6.701	4.3
80	MP1A	Z	-11.606	4.3
81	MP1A	Mx	-.002	4.3
82	MP1B	X	3.858	2.9
83	MP1B	Z	-6.682	2.9
84	MP1B	Mx	.002	2.9
85	MP1B	X	3.858	4.3
86	MP1B	Z	-6.682	4.3
87	MP1B	Mx	.002	4.3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP1C	X	7.021	2.9
89	MP1C	Z	-12.161	2.9
90	MP1C	Mx	-.001	2.9
91	MP1C	X	7.021	4.3
92	MP1C	Z	-12.161	4.3
93	MP1C	Mx	-.001	4.3
94	MP2A	X	5.932	7
95	MP2A	Z	-10.274	7
96	MP2A	Mx	.001	7
97	MP2B	X	3.641	7
98	MP2B	Z	-6.306	7
99	MP2B	Mx	-.002	7
100	MP2C	X	6.19	7
101	MP2C	Z	-10.722	7
102	MP2C	Mx	.001	7
103	DC	X	11.335	1
104	DC	Z	-19.632	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	18.353	1
2	M93	Z	-10.596	1
3	M93	Mx	0	1
4	MP2A	X	19.403	.5
5	MP2A	Z	-11.202	.5
6	MP2A	Mx	-.013	.5
7	MP2A	X	19.403	5.5
8	MP2A	Z	-11.202	5.5
9	MP2A	Mx	-.013	5.5
10	MP2B	X	17.623	.5
11	MP2B	Z	-10.175	.5
12	MP2B	Mx	.002	.5
13	MP2B	X	17.623	5.5
14	MP2B	Z	-10.175	5.5
15	MP2B	Mx	.002	5.5
16	MP2C	X	25.415	.5
17	MP2C	Z	-14.673	.5
18	MP2C	Mx	.023	.5
19	MP2C	X	25.415	5.5
20	MP2C	Z	-14.673	5.5
21	MP2C	Mx	.023	5.5
22	MP2A	X	19.403	.5
23	MP2A	Z	-11.202	.5
24	MP2A	Mx	.004	.5
25	MP2A	X	19.403	5.5
26	MP2A	Z	-11.202	5.5
27	MP2A	Mx	.004	5.5
28	MP2B	X	17.623	.5
29	MP2B	Z	-10.175	.5
30	MP2B	Mx	.008	.5
31	MP2B	X	17.623	5.5
32	MP2B	Z	-10.175	5.5
33	MP2B	Mx	.008	5.5
34	MP2C	X	25.415	.5
35	MP2C	Z	-14.673	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.021	.5
37	MP2C	X	25.415	5.5
38	MP2C	Z	-14.673	5.5
39	MP2C	Mx	-.021	5.5
40	MP3A	X	2.77	2
41	MP3A	Z	-1.599	2
42	MP3A	Mx	-.000693	2
43	MP3B	X	1.856	2
44	MP3B	Z	-1.071	2
45	MP3B	Mx	.000528	2
46	MP3C	X	5.855	2
47	MP3C	Z	-3.38	2
48	MP3C	Mx	.000147	2
49	MP2A	X	2.254	5.08
50	MP2A	Z	-1.301	5.08
51	MP2A	Mx	.000564	5.08
52	MP2B	X	2.101	5.08
53	MP2B	Z	-1.213	5.08
54	MP2B	Mx	-.000597	5.08
55	MP2C	X	2.767	5.08
56	MP2C	Z	-1.598	5.08
57	MP2C	Mx	-7e-5	5.08
58	MP2A	X	10.552	1.58
59	MP2A	Z	-6.092	1.58
60	MP2A	Mx	-.002	1.58
61	MP2B	X	11.316	1.58
62	MP2B	Z	-6.533	1.58
63	MP2B	Mx	-.005	1.58
64	MP2C	X	7.971	1.58
65	MP2C	Z	-4.602	1.58
66	MP2C	Mx	.007	1.58
67	MP2A	X	10.221	1.84
68	MP2A	Z	-5.901	1.84
69	MP2A	Mx	.007	1.84
70	MP2B	X	11.276	1.84
71	MP2B	Z	-6.51	1.84
72	MP2B	Mx	-.001	1.84
73	MP2C	X	6.66	1.84
74	MP2C	Z	-3.845	1.84
75	MP2C	Mx	-.006	1.84
76	MP1A	X	7.717	2.9
77	MP1A	Z	-4.455	2.9
78	MP1A	Mx	-.002	2.9
79	MP1A	X	7.717	4.3
80	MP1A	Z	-4.455	4.3
81	MP1A	Mx	-.002	4.3
82	MP1B	X	6.007	2.9
83	MP1B	Z	-3.468	2.9
84	MP1B	Mx	.002	2.9
85	MP1B	X	6.007	4.3
86	MP1B	Z	-3.468	4.3
87	MP1B	Mx	.002	4.3
88	MP1C	X	13.491	2.9
89	MP1C	Z	-7.789	2.9
90	MP1C	Mx	.000339	2.9
91	MP1C	X	13.491	4.3
92	MP1C	Z	-7.789	4.3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP1C	Mx	.000339	4.3
94	MP2A	X	7.14	7
95	MP2A	Z	-4.122	7
96	MP2A	Mx	.002	7
97	MP2B	X	5.762	7
98	MP2B	Z	-3.327	7
99	MP2B	Mx	-.002	7
100	MP2C	X	11.794	7
101	MP2C	Z	-6.809	7
102	MP2C	Mx	-.000297	7
103	DC	X	18.353	1
104	DC	Z	-10.596	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	22.669	1
2	M93	Z	0	1
3	M93	Mx	0	1
4	MP2A	X	20.068	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	-.005	.5
7	MP2A	X	20.068	5.5
8	MP2A	Z	0	5.5
9	MP2A	Mx	-.005	5.5
10	MP2B	X	23.931	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	-.007	.5
13	MP2B	X	23.931	5.5
14	MP2B	Z	0	5.5
15	MP2B	Mx	-.007	5.5
16	MP2C	X	26.341	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	.02	.5
19	MP2C	X	26.341	5.5
20	MP2C	Z	0	5.5
21	MP2C	Mx	.02	5.5
22	MP2A	X	20.068	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.005	.5
25	MP2A	X	20.068	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.005	5.5
28	MP2B	X	23.931	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	.016	.5
31	MP2B	X	23.931	5.5
32	MP2B	Z	0	5.5
33	MP2B	Mx	.016	5.5
34	MP2C	X	26.341	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	-.012	.5
37	MP2C	X	26.341	5.5
38	MP2C	Z	0	5.5
39	MP2C	Mx	-.012	5.5
40	MP3A	X	1.998	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3A	Z	0	2
42	MP3A	Mx	-.000499	2
43	MP3B	X	3.981	2
44	MP3B	Z	0	2
45	MP3B	Mx	.000762	2
46	MP3C	X	5.219	2
47	MP3C	Z	0	2
48	MP3C	Mx	.000748	2
49	MP2A	X	2.402	5.08
50	MP2A	Z	0	5.08
51	MP2A	Mx	.0006	5.08
52	MP2B	X	2.733	5.08
53	MP2B	Z	0	5.08
54	MP2B	Mx	-.000523	5.08
55	MP2C	X	2.939	5.08
56	MP2C	Z	0	5.08
57	MP2C	Mx	-.000421	5.08
58	MP2A	X	13.187	1.58
59	MP2A	Z	0	1.58
60	MP2A	Mx	.003	1.58
61	MP2B	X	11.529	1.58
62	MP2B	Z	0	1.58
63	MP2B	Mx	-.008	1.58
64	MP2C	X	10.494	1.58
65	MP2C	Z	0	1.58
66	MP2C	Mx	.005	1.58
67	MP2A	X	13.187	1.84
68	MP2A	Z	0	1.84
69	MP2A	Mx	.003	1.84
70	MP2B	X	10.899	1.84
71	MP2B	Z	0	1.84
72	MP2B	Mx	.003	1.84
73	MP2C	X	9.47	1.84
74	MP2C	Z	0	1.84
75	MP2C	Mx	-.007	1.84
76	MP1A	X	6.665	2.9
77	MP1A	Z	0	2.9
78	MP1A	Mx	-.002	2.9
79	MP1A	X	6.665	4.3
80	MP1A	Z	0	4.3
81	MP1A	Mx	-.002	4.3
82	MP1B	X	10.376	2.9
83	MP1B	Z	0	2.9
84	MP1B	Mx	.002	2.9
85	MP1B	X	10.376	4.3
86	MP1B	Z	0	4.3
87	MP1B	Mx	.002	4.3
88	MP1C	X	12.692	2.9
89	MP1C	Z	0	2.9
90	MP1C	Mx	.002	2.9
91	MP1C	X	12.692	4.3
92	MP1C	Z	0	4.3
93	MP1C	Mx	.002	4.3
94	MP2A	X	6.435	7
95	MP2A	Z	0	7
96	MP2A	Mx	.002	7
97	MP2B	X	9.426	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP2B	Z	0	7
99	MP2B	Mx	-.002	7
100	MP2C	X	11.292	7
101	MP2C	Z	0	7
102	MP2C	Mx	-.002	7
103	DC	X	22.669	1
104	DC	Z	0	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	22.191	1
2	M93	Z	12.812	1
3	M93	Mx	0	1
4	MP2A	X	19.403	.5
5	MP2A	Z	11.202	.5
6	MP2A	Mx	.004	.5
7	MP2A	X	19.403	5.5
8	MP2A	Z	11.202	5.5
9	MP2A	Mx	.004	5.5
10	MP2B	X	24.529	.5
11	MP2B	Z	14.162	.5
12	MP2B	Mx	-.018	.5
13	MP2B	X	24.529	5.5
14	MP2B	Z	14.162	5.5
15	MP2B	Mx	-.018	5.5
16	MP2C	X	18.825	.5
17	MP2C	Z	10.869	.5
18	MP2C	Mx	.012	.5
19	MP2C	X	18.825	5.5
20	MP2C	Z	10.869	5.5
21	MP2C	Mx	.012	5.5
22	MP2A	X	19.403	.5
23	MP2A	Z	11.202	.5
24	MP2A	Mx	-.013	.5
25	MP2A	X	19.403	5.5
26	MP2A	Z	11.202	5.5
27	MP2A	Mx	-.013	5.5
28	MP2B	X	24.529	.5
29	MP2B	Z	14.162	.5
30	MP2B	Mx	.022	.5
31	MP2B	X	24.529	5.5
32	MP2B	Z	14.162	5.5
33	MP2B	Mx	.022	5.5
34	MP2C	X	18.825	.5
35	MP2C	Z	10.869	.5
36	MP2C	Mx	-.002	.5
37	MP2C	X	18.825	5.5
38	MP2C	Z	10.869	5.5
39	MP2C	Mx	-.002	5.5
40	MP3A	X	2.77	2
41	MP3A	Z	1.599	2
42	MP3A	Mx	-.000693	2
43	MP3B	X	5.401	2
44	MP3B	Z	3.118	2
45	MP3B	Mx	.000533	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP3C	X	2.473	2
47	MP3C	Z	1.428	2
48	MP3C	Mx	.000647	2
49	MP2A	X	2.254	5.08
50	MP2A	Z	1.301	5.08
51	MP2A	Mx	.000564	5.08
52	MP2B	X	2.692	5.08
53	MP2B	Z	1.554	5.08
54	MP2B	Mx	-.000266	5.08
55	MP2C	X	2.204	5.08
56	MP2C	Z	1.273	5.08
57	MP2C	Mx	-.000577	5.08
58	MP2A	X	10.552	1.58
59	MP2A	Z	6.092	1.58
60	MP2A	Mx	.007	1.58
61	MP2B	X	8.351	1.58
62	MP2B	Z	4.821	1.58
63	MP2B	Mx	-.008	1.58
64	MP2C	X	10.8	1.58
65	MP2C	Z	6.235	1.58
66	MP2C	Mx	.001	1.58
67	MP2A	X	10.221	1.84
68	MP2A	Z	5.901	1.84
69	MP2A	Mx	-.002	1.84
70	MP2B	X	7.184	1.84
71	MP2B	Z	4.148	1.84
72	MP2B	Mx	.005	1.84
73	MP2C	X	10.564	1.84
74	MP2C	Z	6.099	1.84
75	MP2C	Mx	-.007	1.84
76	MP1A	X	7.717	2.9
77	MP1A	Z	4.455	2.9
78	MP1A	Mx	-.002	2.9
79	MP1A	X	7.717	4.3
80	MP1A	Z	4.455	4.3
81	MP1A	Mx	-.002	4.3
82	MP1B	X	12.64	2.9
83	MP1B	Z	7.298	2.9
84	MP1B	Mx	.001	2.9
85	MP1B	X	12.64	4.3
86	MP1B	Z	7.298	4.3
87	MP1B	Mx	.001	4.3
88	MP1C	X	7.161	2.9
89	MP1C	Z	4.135	2.9
90	MP1C	Mx	.002	2.9
91	MP1C	X	7.161	4.3
92	MP1C	Z	4.135	4.3
93	MP1C	Mx	.002	4.3
94	MP2A	X	7.14	7
95	MP2A	Z	4.122	7
96	MP2A	Mx	.002	7
97	MP2B	X	11.108	7
98	MP2B	Z	6.413	7
99	MP2B	Mx	-.001	7
100	MP2C	X	6.693	7
101	MP2C	Z	3.864	7
102	MP2C	Mx	-.002	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	DC	X	22.191	1
104	DC	Z	12.812	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	13.55	1
2	M93	Z	23.47	1
3	M93	Mx	0	1
4	MP2A	X	13.54	.5
5	MP2A	Z	23.452	.5
6	MP2A	Mx	.014	.5
7	MP2A	X	13.54	5.5
8	MP2A	Z	23.452	5.5
9	MP2A	Mx	.014	5.5
10	MP2B	X	14.568	.5
11	MP2B	Z	25.232	.5
12	MP2B	Mx	-.023	.5
13	MP2B	X	14.568	5.5
14	MP2B	Z	25.232	5.5
15	MP2B	Mx	-.023	5.5
16	MP2C	X	10.069	.5
17	MP2C	Z	17.44	.5
18	MP2C	Mx	.004	.5
19	MP2C	X	10.069	5.5
20	MP2C	Z	17.44	5.5
21	MP2C	Mx	.004	5.5
22	MP2A	X	13.54	.5
23	MP2A	Z	23.452	.5
24	MP2A	Mx	-.021	.5
25	MP2A	X	13.54	5.5
26	MP2A	Z	23.452	5.5
27	MP2A	Mx	-.021	5.5
28	MP2B	X	14.568	.5
29	MP2B	Z	25.232	.5
30	MP2B	Mx	.02	.5
31	MP2B	X	14.568	5.5
32	MP2B	Z	25.232	5.5
33	MP2B	Mx	.02	5.5
34	MP2C	X	10.069	.5
35	MP2C	Z	17.44	.5
36	MP2C	Mx	.006	.5
37	MP2C	X	10.069	5.5
38	MP2C	Z	17.44	5.5
39	MP2C	Mx	.006	5.5
40	MP3A	X	2.799	2
41	MP3A	Z	4.848	2
42	MP3A	Mx	-.0007	2
43	MP3B	X	3.326	2
44	MP3B	Z	5.761	2
45	MP3B	Mx	-.000289	2
46	MP3C	X	1.017	2
47	MP3C	Z	1.762	2
48	MP3C	Mx	.000507	2
49	MP2A	X	1.501	5.08
50	MP2A	Z	2.599	5.08

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP2A	Mx	.000375	5.08
52	MP2B	X	1.589	5.08
53	MP2B	Z	2.752	5.08
54	MP2B	Mx	.000138	5.08
55	MP2C	X	1.204	5.08
56	MP2C	Z	2.086	5.08
57	MP2C	Mx	-.0006	5.08
58	MP2A	X	5.088	1.58
59	MP2A	Z	8.813	1.58
60	MP2A	Mx	.008	1.58
61	MP2B	X	4.647	1.58
62	MP2B	Z	8.049	1.58
63	MP2B	Mx	-.007	1.58
64	MP2C	X	6.578	1.58
65	MP2C	Z	11.394	1.58
66	MP2C	Mx	-.004	1.58
67	MP2A	X	4.516	1.84
68	MP2A	Z	7.823	1.84
69	MP2A	Mx	-.005	1.84
70	MP2B	X	3.907	1.84
71	MP2B	Z	6.768	1.84
72	MP2B	Mx	.006	1.84
73	MP2C	X	6.573	1.84
74	MP2C	Z	11.384	1.84
75	MP2C	Mx	-.002	1.84
76	MP1A	X	6.701	2.9
77	MP1A	Z	11.606	2.9
78	MP1A	Mx	-.002	2.9
79	MP1A	X	6.701	4.3
80	MP1A	Z	11.606	4.3
81	MP1A	Mx	-.002	4.3
82	MP1B	X	7.688	2.9
83	MP1B	Z	13.316	2.9
84	MP1B	Mx	-.000668	2.9
85	MP1B	X	7.688	4.3
86	MP1B	Z	13.316	4.3
87	MP1B	Mx	-.000668	4.3
88	MP1C	X	3.367	2.9
89	MP1C	Z	5.831	2.9
90	MP1C	Mx	.002	2.9
91	MP1C	X	3.367	4.3
92	MP1C	Z	5.831	4.3
93	MP1C	Mx	.002	4.3
94	MP2A	X	5.932	7
95	MP2A	Z	10.274	7
96	MP2A	Mx	.001	7
97	MP2B	X	6.727	7
98	MP2B	Z	11.652	7
99	MP2B	Mx	.000584	7
100	MP2C	X	3.245	7
101	MP2C	Z	5.621	7
102	MP2C	Mx	-.002	7
103	DC	X	13.55	1
104	DC	Z	23.47	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	0	1
2	M93	Z	25.624	1
3	M93	Mx	0	1
4	MP2A	X	0	.5
5	MP2A	Z	29.417	.5
6	MP2A	Mx	.022	.5
7	MP2A	X	0	5.5
8	MP2A	Z	29.417	5.5
9	MP2A	Mx	.022	5.5
10	MP2B	X	0	.5
11	MP2B	Z	25.554	.5
12	MP2B	Mx	-.019	.5
13	MP2B	X	0	5.5
14	MP2B	Z	25.554	5.5
15	MP2B	Mx	-.019	5.5
16	MP2C	X	0	.5
17	MP2C	Z	23.144	.5
18	MP2C	Mx	-.005	.5
19	MP2C	X	0	5.5
20	MP2C	Z	23.144	5.5
21	MP2C	Mx	-.005	5.5
22	MP2A	X	0	.5
23	MP2A	Z	29.417	.5
24	MP2A	Mx	-.022	.5
25	MP2A	X	0	5.5
26	MP2A	Z	29.417	5.5
27	MP2A	Mx	-.022	5.5
28	MP2B	X	0	.5
29	MP2B	Z	25.554	.5
30	MP2B	Mx	.011	.5
31	MP2B	X	0	5.5
32	MP2B	Z	25.554	5.5
33	MP2B	Mx	.011	5.5
34	MP2C	X	0	.5
35	MP2C	Z	23.144	.5
36	MP2C	Mx	.015	.5
37	MP2C	X	0	5.5
38	MP2C	Z	23.144	5.5
39	MP2C	Mx	.015	5.5
40	MP3A	X	0	2
41	MP3A	Z	6.797	2
42	MP3A	Mx	0	2
43	MP3B	X	0	2
44	MP3B	Z	4.814	2
45	MP3B	Mx	-.000774	2
46	MP3C	X	0	2
47	MP3C	Z	3.577	2
48	MP3C	Mx	.000733	2
49	MP2A	X	0	5.08
50	MP2A	Z	3.201	5.08
51	MP2A	Mx	0	5.08
52	MP2B	X	0	5.08
53	MP2B	Z	2.871	5.08
54	MP2B	Mx	.000461	5.08
55	MP2C	X	0	5.08
56	MP2C	Z	2.665	5.08
57	MP2C	Mx	-.000546	5.08

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	0	1.58
59	MP2A	Z	9.173	1.58
60	MP2A	Mx	.007	1.58
61	MP2B	X	0	1.58
62	MP2B	Z	10.832	1.58
63	MP2B	Mx	-.005	1.58
64	MP2C	X	0	1.58
65	MP2C	Z	11.867	1.58
66	MP2C	Mx	-.008	1.58
67	MP2A	X	0	1.84
68	MP2A	Z	7.648	1.84
69	MP2A	Mx	-.006	1.84
70	MP2B	X	0	1.84
71	MP2B	Z	9.937	1.84
72	MP2B	Mx	.008	1.84
73	MP2C	X	0	1.84
74	MP2C	Z	11.365	1.84
75	MP2C	Mx	.003	1.84
76	MP1A	X	0	2.9
77	MP1A	Z	15.646	2.9
78	MP1A	Mx	0	2.9
79	MP1A	X	0	4.3
80	MP1A	Z	15.646	4.3
81	MP1A	Mx	0	4.3
82	MP1B	X	0	2.9
83	MP1B	Z	11.936	2.9
84	MP1B	Mx	-.002	2.9
85	MP1B	X	0	4.3
86	MP1B	Z	11.936	4.3
87	MP1B	Mx	-.002	4.3
88	MP1C	X	0	2.9
89	MP1C	Z	9.62	2.9
90	MP1C	Mx	.002	2.9
91	MP1C	X	0	4.3
92	MP1C	Z	9.62	4.3
93	MP1C	Mx	.002	4.3
94	MP2A	X	0	7
95	MP2A	Z	13.673	7
96	MP2A	Mx	0	7
97	MP2B	X	0	7
98	MP2B	Z	10.683	7
99	MP2B	Mx	.002	7
100	MP2C	X	0	7
101	MP2C	Z	8.816	7
102	MP2C	Mx	-.002	7
103	DC	X	0	1
104	DC	Z	25.624	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-11.335	1
2	M93	Z	19.632	1
3	M93	Mx	0	1
4	MP2A	X	-13.54	.5
5	MP2A	Z	23.452	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.021	.5
7	MP2A	X	-13.54	5.5
8	MP2A	Z	23.452	5.5
9	MP2A	Mx	.021	5.5
10	MP2B	X	-10.581	.5
11	MP2B	Z	18.326	.5
12	MP2B	Mx	-.01	.5
13	MP2B	X	-10.581	5.5
14	MP2B	Z	18.326	5.5
15	MP2B	Mx	-.01	5.5
16	MP2C	X	-13.874	.5
17	MP2C	Z	24.03	.5
18	MP2C	Mx	-.016	.5
19	MP2C	X	-13.874	5.5
20	MP2C	Z	24.03	5.5
21	MP2C	Mx	-.016	5.5
22	MP2A	X	-13.54	.5
23	MP2A	Z	23.452	.5
24	MP2A	Mx	-.014	.5
25	MP2A	X	-13.54	5.5
26	MP2A	Z	23.452	5.5
27	MP2A	Mx	-.014	5.5
28	MP2B	X	-10.581	.5
29	MP2B	Z	18.326	.5
30	MP2B	Mx	.000457	.5
31	MP2B	X	-10.581	5.5
32	MP2B	Z	18.326	5.5
33	MP2B	Mx	.000457	5.5
34	MP2C	X	-13.874	.5
35	MP2C	Z	24.03	.5
36	MP2C	Mx	.022	.5
37	MP2C	X	-13.874	5.5
38	MP2C	Z	24.03	5.5
39	MP2C	Mx	.022	5.5
40	MP3A	X	-2.799	2
41	MP3A	Z	4.848	2
42	MP3A	Mx	.0007	2
43	MP3B	X	-1.28	2
44	MP3B	Z	2.217	2
45	MP3B	Mx	-.000601	2
46	MP3C	X	-2.97	2
47	MP3C	Z	5.144	2
48	MP3C	Mx	.000628	2
49	MP2A	X	-1.501	5.08
50	MP2A	Z	2.599	5.08
51	MP2A	Mx	-.000375	5.08
52	MP2B	X	-1.248	5.08
53	MP2B	Z	2.161	5.08
54	MP2B	Mx	.000586	5.08
55	MP2C	X	-1.529	5.08
56	MP2C	Z	2.649	5.08
57	MP2C	Mx	-.000323	5.08
58	MP2A	X	-5.088	1.58
59	MP2A	Z	8.813	1.58
60	MP2A	Mx	.006	1.58
61	MP2B	X	-6.359	1.58
62	MP2B	Z	11.014	1.58

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2B	Mx	-.000456	1.58
64	MP2C	X	-4.945	1.58
65	MP2C	Z	8.565	1.58
66	MP2C	Mx	-.008	1.58
67	MP2A	X	-4.516	1.84
68	MP2A	Z	7.823	1.84
69	MP2A	Mx	-.007	1.84
70	MP2B	X	-6.27	1.84
71	MP2B	Z	10.859	1.84
72	MP2B	Mx	.006	1.84
73	MP2C	X	-4.319	1.84
74	MP2C	Z	7.48	1.84
75	MP2C	Mx	.005	1.84
76	MP1A	X	-6.701	2.9
77	MP1A	Z	11.606	2.9
78	MP1A	Mx	.002	2.9
79	MP1A	X	-6.701	4.3
80	MP1A	Z	11.606	4.3
81	MP1A	Mx	.002	4.3
82	MP1B	X	-3.858	2.9
83	MP1B	Z	6.682	2.9
84	MP1B	Mx	-.002	2.9
85	MP1B	X	-3.858	4.3
86	MP1B	Z	6.682	4.3
87	MP1B	Mx	-.002	4.3
88	MP1C	X	-7.021	2.9
89	MP1C	Z	12.161	2.9
90	MP1C	Mx	.001	2.9
91	MP1C	X	-7.021	4.3
92	MP1C	Z	12.161	4.3
93	MP1C	Mx	.001	4.3
94	MP2A	X	-5.932	7
95	MP2A	Z	10.274	7
96	MP2A	Mx	-.001	7
97	MP2B	X	-3.641	7
98	MP2B	Z	6.306	7
99	MP2B	Mx	.002	7
100	MP2C	X	-6.19	7
101	MP2C	Z	10.722	7
102	MP2C	Mx	-.001	7
103	DC	X	-11.335	1
104	DC	Z	19.632	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-18.353	1
2	M93	Z	10.596	1
3	M93	Mx	0	1
4	MP2A	X	-19.403	.5
5	MP2A	Z	11.202	.5
6	MP2A	Mx	.013	.5
7	MP2A	X	-19.403	5.5
8	MP2A	Z	11.202	5.5
9	MP2A	Mx	.013	5.5
10	MP2B	X	-17.623	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	10.175	.5
12	MP2B	Mx	-.002	.5
13	MP2B	X	-17.623	5.5
14	MP2B	Z	10.175	5.5
15	MP2B	Mx	-.002	5.5
16	MP2C	X	-25.415	.5
17	MP2C	Z	14.673	.5
18	MP2C	Mx	-.023	.5
19	MP2C	X	-25.415	5.5
20	MP2C	Z	14.673	5.5
21	MP2C	Mx	-.023	5.5
22	MP2A	X	-19.403	.5
23	MP2A	Z	11.202	.5
24	MP2A	Mx	-.004	.5
25	MP2A	X	-19.403	5.5
26	MP2A	Z	11.202	5.5
27	MP2A	Mx	-.004	5.5
28	MP2B	X	-17.623	.5
29	MP2B	Z	10.175	.5
30	MP2B	Mx	-.008	.5
31	MP2B	X	-17.623	5.5
32	MP2B	Z	10.175	5.5
33	MP2B	Mx	-.008	5.5
34	MP2C	X	-25.415	.5
35	MP2C	Z	14.673	.5
36	MP2C	Mx	.021	.5
37	MP2C	X	-25.415	5.5
38	MP2C	Z	14.673	5.5
39	MP2C	Mx	.021	5.5
40	MP3A	X	-2.77	2
41	MP3A	Z	1.599	2
42	MP3A	Mx	.000693	2
43	MP3B	X	-1.856	2
44	MP3B	Z	1.071	2
45	MP3B	Mx	-.000528	2
46	MP3C	X	-5.855	2
47	MP3C	Z	3.38	2
48	MP3C	Mx	-.000147	2
49	MP2A	X	-2.254	5.08
50	MP2A	Z	1.301	5.08
51	MP2A	Mx	-.000564	5.08
52	MP2B	X	-2.101	5.08
53	MP2B	Z	1.213	5.08
54	MP2B	Mx	.000597	5.08
55	MP2C	X	-2.767	5.08
56	MP2C	Z	1.598	5.08
57	MP2C	Mx	7e-5	5.08
58	MP2A	X	-10.552	1.58
59	MP2A	Z	6.092	1.58
60	MP2A	Mx	.002	1.58
61	MP2B	X	-11.316	1.58
62	MP2B	Z	6.533	1.58
63	MP2B	Mx	.005	1.58
64	MP2C	X	-7.971	1.58
65	MP2C	Z	4.602	1.58
66	MP2C	Mx	-.007	1.58
67	MP2A	X	-10.221	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2A	Z	5.901	1.84
69	MP2A	Mx	-.007	1.84
70	MP2B	X	-11.276	1.84
71	MP2B	Z	6.51	1.84
72	MP2B	Mx	.001	1.84
73	MP2C	X	-6.66	1.84
74	MP2C	Z	3.845	1.84
75	MP2C	Mx	.006	1.84
76	MP1A	X	-7.717	2.9
77	MP1A	Z	4.455	2.9
78	MP1A	Mx	.002	2.9
79	MP1A	X	-7.717	4.3
80	MP1A	Z	4.455	4.3
81	MP1A	Mx	.002	4.3
82	MP1B	X	-6.007	2.9
83	MP1B	Z	3.468	2.9
84	MP1B	Mx	-.002	2.9
85	MP1B	X	-6.007	4.3
86	MP1B	Z	3.468	4.3
87	MP1B	Mx	-.002	4.3
88	MP1C	X	-13.491	2.9
89	MP1C	Z	7.789	2.9
90	MP1C	Mx	-.000339	2.9
91	MP1C	X	-13.491	4.3
92	MP1C	Z	7.789	4.3
93	MP1C	Mx	-.000339	4.3
94	MP2A	X	-7.14	7
95	MP2A	Z	4.122	7
96	MP2A	Mx	-.002	7
97	MP2B	X	-5.762	7
98	MP2B	Z	3.327	7
99	MP2B	Mx	.002	7
100	MP2C	X	-11.794	7
101	MP2C	Z	6.809	7
102	MP2C	Mx	.000297	7
103	DC	X	-18.353	1
104	DC	Z	10.596	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-22.669	1
2	M93	Z	0	1
3	M93	Mx	0	1
4	MP2A	X	-20.068	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	.005	.5
7	MP2A	X	-20.068	5.5
8	MP2A	Z	0	5.5
9	MP2A	Mx	.005	5.5
10	MP2B	X	-23.931	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	.007	.5
13	MP2B	X	-23.931	5.5
14	MP2B	Z	0	5.5
15	MP2B	Mx	.007	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	-26.341	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	-.02	.5
19	MP2C	X	-26.341	5.5
20	MP2C	Z	0	5.5
21	MP2C	Mx	-.02	5.5
22	MP2A	X	-20.068	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.005	.5
25	MP2A	X	-20.068	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.005	5.5
28	MP2B	X	-23.931	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	-.016	.5
31	MP2B	X	-23.931	5.5
32	MP2B	Z	0	5.5
33	MP2B	Mx	-.016	5.5
34	MP2C	X	-26.341	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	.012	.5
37	MP2C	X	-26.341	5.5
38	MP2C	Z	0	5.5
39	MP2C	Mx	.012	5.5
40	MP3A	X	-1.998	2
41	MP3A	Z	0	2
42	MP3A	Mx	.000499	2
43	MP3B	X	-3.981	2
44	MP3B	Z	0	2
45	MP3B	Mx	-.000762	2
46	MP3C	X	-5.219	2
47	MP3C	Z	0	2
48	MP3C	Mx	-.000748	2
49	MP2A	X	-2.402	5.08
50	MP2A	Z	0	5.08
51	MP2A	Mx	-.0006	5.08
52	MP2B	X	-2.733	5.08
53	MP2B	Z	0	5.08
54	MP2B	Mx	.000523	5.08
55	MP2C	X	-2.939	5.08
56	MP2C	Z	0	5.08
57	MP2C	Mx	.000421	5.08
58	MP2A	X	-13.187	1.58
59	MP2A	Z	0	1.58
60	MP2A	Mx	-.003	1.58
61	MP2B	X	-11.529	1.58
62	MP2B	Z	0	1.58
63	MP2B	Mx	.008	1.58
64	MP2C	X	-10.494	1.58
65	MP2C	Z	0	1.58
66	MP2C	Mx	-.005	1.58
67	MP2A	X	-13.187	1.84
68	MP2A	Z	0	1.84
69	MP2A	Mx	-.003	1.84
70	MP2B	X	-10.899	1.84
71	MP2B	Z	0	1.84
72	MP2B	Mx	-.003	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP2C	X	-9.47	1.84
74	MP2C	Z	0	1.84
75	MP2C	Mx	.007	1.84
76	MP1A	X	-6.665	2.9
77	MP1A	Z	0	2.9
78	MP1A	Mx	.002	2.9
79	MP1A	X	-6.665	4.3
80	MP1A	Z	0	4.3
81	MP1A	Mx	.002	4.3
82	MP1B	X	-10.376	2.9
83	MP1B	Z	0	2.9
84	MP1B	Mx	-.002	2.9
85	MP1B	X	-10.376	4.3
86	MP1B	Z	0	4.3
87	MP1B	Mx	-.002	4.3
88	MP1C	X	-12.692	2.9
89	MP1C	Z	0	2.9
90	MP1C	Mx	-.002	2.9
91	MP1C	X	-12.692	4.3
92	MP1C	Z	0	4.3
93	MP1C	Mx	-.002	4.3
94	MP2A	X	-6.435	7
95	MP2A	Z	0	7
96	MP2A	Mx	-.002	7
97	MP2B	X	-9.426	7
98	MP2B	Z	0	7
99	MP2B	Mx	.002	7
100	MP2C	X	-11.292	7
101	MP2C	Z	0	7
102	MP2C	Mx	.002	7
103	DC	X	-22.669	1
104	DC	Z	0	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-22.191	1
2	M93	Z	-12.812	1
3	M93	Mx	0	1
4	MP2A	X	-19.403	.5
5	MP2A	Z	-11.202	.5
6	MP2A	Mx	-.004	.5
7	MP2A	X	-19.403	5.5
8	MP2A	Z	-11.202	5.5
9	MP2A	Mx	-.004	5.5
10	MP2B	X	-24.529	.5
11	MP2B	Z	-14.162	.5
12	MP2B	Mx	.018	.5
13	MP2B	X	-24.529	5.5
14	MP2B	Z	-14.162	5.5
15	MP2B	Mx	.018	5.5
16	MP2C	X	-18.825	.5
17	MP2C	Z	-10.869	.5
18	MP2C	Mx	-.012	.5
19	MP2C	X	-18.825	5.5
20	MP2C	Z	-10.869	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2C	Mx	-.012	5.5
22	MP2A	X	-19.403	.5
23	MP2A	Z	-11.202	.5
24	MP2A	Mx	.013	.5
25	MP2A	X	-19.403	5.5
26	MP2A	Z	-11.202	5.5
27	MP2A	Mx	.013	5.5
28	MP2B	X	-24.529	.5
29	MP2B	Z	-14.162	.5
30	MP2B	Mx	-.022	.5
31	MP2B	X	-24.529	5.5
32	MP2B	Z	-14.162	5.5
33	MP2B	Mx	-.022	5.5
34	MP2C	X	-18.825	.5
35	MP2C	Z	-10.869	.5
36	MP2C	Mx	.002	.5
37	MP2C	X	-18.825	5.5
38	MP2C	Z	-10.869	5.5
39	MP2C	Mx	.002	5.5
40	MP3A	X	-2.77	2
41	MP3A	Z	-1.599	2
42	MP3A	Mx	.000693	2
43	MP3B	X	-5.401	2
44	MP3B	Z	-3.118	2
45	MP3B	Mx	-.000533	2
46	MP3C	X	-2.473	2
47	MP3C	Z	-1.428	2
48	MP3C	Mx	-.000647	2
49	MP2A	X	-2.254	5.08
50	MP2A	Z	-1.301	5.08
51	MP2A	Mx	-.000564	5.08
52	MP2B	X	-2.692	5.08
53	MP2B	Z	-1.554	5.08
54	MP2B	Mx	.000266	5.08
55	MP2C	X	-2.204	5.08
56	MP2C	Z	-1.273	5.08
57	MP2C	Mx	.000577	5.08
58	MP2A	X	-10.552	1.58
59	MP2A	Z	-6.092	1.58
60	MP2A	Mx	-.007	1.58
61	MP2B	X	-8.351	1.58
62	MP2B	Z	-4.821	1.58
63	MP2B	Mx	.008	1.58
64	MP2C	X	-10.8	1.58
65	MP2C	Z	-6.235	1.58
66	MP2C	Mx	-.001	1.58
67	MP2A	X	-10.221	1.84
68	MP2A	Z	-5.901	1.84
69	MP2A	Mx	.002	1.84
70	MP2B	X	-7.184	1.84
71	MP2B	Z	-4.148	1.84
72	MP2B	Mx	-.005	1.84
73	MP2C	X	-10.564	1.84
74	MP2C	Z	-6.099	1.84
75	MP2C	Mx	.007	1.84
76	MP1A	X	-7.717	2.9
77	MP1A	Z	-4.455	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP1A	Mx	.002	2.9
79	MP1A	X	-7.717	4.3
80	MP1A	Z	-4.455	4.3
81	MP1A	Mx	.002	4.3
82	MP1B	X	-12.64	2.9
83	MP1B	Z	-7.298	2.9
84	MP1B	Mx	-.001	2.9
85	MP1B	X	-12.64	4.3
86	MP1B	Z	-7.298	4.3
87	MP1B	Mx	-.001	4.3
88	MP1C	X	-7.161	2.9
89	MP1C	Z	-4.135	2.9
90	MP1C	Mx	-.002	2.9
91	MP1C	X	-7.161	4.3
92	MP1C	Z	-4.135	4.3
93	MP1C	Mx	-.002	4.3
94	MP2A	X	-7.14	7
95	MP2A	Z	-4.122	7
96	MP2A	Mx	-.002	7
97	MP2B	X	-11.108	7
98	MP2B	Z	-6.413	7
99	MP2B	Mx	.001	7
100	MP2C	X	-6.693	7
101	MP2C	Z	-3.864	7
102	MP2C	Mx	.002	7
103	DC	X	-22.191	1
104	DC	Z	-12.812	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-13.55	1
2	M93	Z	-23.47	1
3	M93	Mx	0	1
4	MP2A	X	-13.54	.5
5	MP2A	Z	-23.452	.5
6	MP2A	Mx	-.014	.5
7	MP2A	X	-13.54	5.5
8	MP2A	Z	-23.452	5.5
9	MP2A	Mx	-.014	5.5
10	MP2B	X	-14.568	.5
11	MP2B	Z	-25.232	.5
12	MP2B	Mx	.023	.5
13	MP2B	X	-14.568	5.5
14	MP2B	Z	-25.232	5.5
15	MP2B	Mx	.023	5.5
16	MP2C	X	-10.069	.5
17	MP2C	Z	-17.44	.5
18	MP2C	Mx	-.004	.5
19	MP2C	X	-10.069	5.5
20	MP2C	Z	-17.44	5.5
21	MP2C	Mx	-.004	5.5
22	MP2A	X	-13.54	.5
23	MP2A	Z	-23.452	.5
24	MP2A	Mx	.021	.5
25	MP2A	X	-13.54	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2A	Z	-23.452	5.5
27	MP2A	Mx	.021	5.5
28	MP2B	X	-14.568	.5
29	MP2B	Z	-25.232	.5
30	MP2B	Mx	-.02	.5
31	MP2B	X	-14.568	5.5
32	MP2B	Z	-25.232	5.5
33	MP2B	Mx	-.02	5.5
34	MP2C	X	-10.069	.5
35	MP2C	Z	-17.44	.5
36	MP2C	Mx	-.006	.5
37	MP2C	X	-10.069	5.5
38	MP2C	Z	-17.44	5.5
39	MP2C	Mx	-.006	5.5
40	MP3A	X	-2.799	2
41	MP3A	Z	-4.848	2
42	MP3A	Mx	.0007	2
43	MP3B	X	-3.326	2
44	MP3B	Z	-5.761	2
45	MP3B	Mx	.000289	2
46	MP3C	X	-1.017	2
47	MP3C	Z	-1.762	2
48	MP3C	Mx	-.000507	2
49	MP2A	X	-1.501	5.08
50	MP2A	Z	-2.599	5.08
51	MP2A	Mx	-.000375	5.08
52	MP2B	X	-1.589	5.08
53	MP2B	Z	-2.752	5.08
54	MP2B	Mx	-.000138	5.08
55	MP2C	X	-1.204	5.08
56	MP2C	Z	-2.086	5.08
57	MP2C	Mx	.0006	5.08
58	MP2A	X	-5.088	1.58
59	MP2A	Z	-8.813	1.58
60	MP2A	Mx	-.008	1.58
61	MP2B	X	-4.647	1.58
62	MP2B	Z	-8.049	1.58
63	MP2B	Mx	.007	1.58
64	MP2C	X	-6.578	1.58
65	MP2C	Z	-11.394	1.58
66	MP2C	Mx	.004	1.58
67	MP2A	X	-4.516	1.84
68	MP2A	Z	-7.823	1.84
69	MP2A	Mx	.005	1.84
70	MP2B	X	-3.907	1.84
71	MP2B	Z	-6.768	1.84
72	MP2B	Mx	-.006	1.84
73	MP2C	X	-6.573	1.84
74	MP2C	Z	-11.384	1.84
75	MP2C	Mx	.002	1.84
76	MP1A	X	-6.701	2.9
77	MP1A	Z	-11.606	2.9
78	MP1A	Mx	.002	2.9
79	MP1A	X	-6.701	4.3
80	MP1A	Z	-11.606	4.3
81	MP1A	Mx	.002	4.3
82	MP1B	X	-7.688	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP1B	Z	-13.316	2.9
84	MP1B	Mx	.000668	2.9
85	MP1B	X	-7.688	4.3
86	MP1B	Z	-13.316	4.3
87	MP1B	Mx	.000668	4.3
88	MP1C	X	-3.367	2.9
89	MP1C	Z	-5.831	2.9
90	MP1C	Mx	-.002	2.9
91	MP1C	X	-3.367	4.3
92	MP1C	Z	-5.831	4.3
93	MP1C	Mx	-.002	4.3
94	MP2A	X	-5.932	7
95	MP2A	Z	-10.274	7
96	MP2A	Mx	-.001	7
97	MP2B	X	-6.727	7
98	MP2B	Z	-11.652	7
99	MP2B	Mx	-.000584	7
100	MP2C	X	-3.245	7
101	MP2C	Z	-5.621	7
102	MP2C	Mx	.002	7
103	DC	X	-13.55	1
104	DC	Z	-23.47	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	0	1
2	M93	Z	-6.322	1
3	M93	Mx	0	1
4	MP2A	X	0	.5
5	MP2A	Z	-9.664	.5
6	MP2A	Mx	-.007	.5
7	MP2A	X	0	5.5
8	MP2A	Z	-9.664	5.5
9	MP2A	Mx	-.007	5.5
10	MP2B	X	0	.5
11	MP2B	Z	-8.293	.5
12	MP2B	Mx	.006	.5
13	MP2B	X	0	5.5
14	MP2B	Z	-8.293	5.5
15	MP2B	Mx	.006	5.5
16	MP2C	X	0	.5
17	MP2C	Z	-7.438	.5
18	MP2C	Mx	.002	.5
19	MP2C	X	0	5.5
20	MP2C	Z	-7.438	5.5
21	MP2C	Mx	.002	5.5
22	MP2A	X	0	.5
23	MP2A	Z	-9.664	.5
24	MP2A	Mx	.007	.5
25	MP2A	X	0	5.5
26	MP2A	Z	-9.664	5.5
27	MP2A	Mx	.007	5.5
28	MP2B	X	0	.5
29	MP2B	Z	-8.293	.5
30	MP2B	Mx	-.003	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2B	X	0	5.5
32	MP2B	Z	-8.293	5.5
33	MP2B	Mx	-.003	5.5
34	MP2C	X	0	.5
35	MP2C	Z	-7.438	.5
36	MP2C	Mx	-.005	.5
37	MP2C	X	0	5.5
38	MP2C	Z	-7.438	5.5
39	MP2C	Mx	-.005	5.5
40	MP3A	X	0	2
41	MP3A	Z	-1.888	2
42	MP3A	Mx	0	2
43	MP3B	X	0	2
44	MP3B	Z	-1.261	2
45	MP3B	Mx	.000203	2
46	MP3C	X	0	2
47	MP3C	Z	-.87	2
48	MP3C	Mx	-.000178	2
49	MP2A	X	0	5.08
50	MP2A	Z	-.785	5.08
51	MP2A	Mx	0	5.08
52	MP2B	X	0	5.08
53	MP2B	Z	-.685	5.08
54	MP2B	Mx	-.00011	5.08
55	MP2C	X	0	5.08
56	MP2C	Z	-.623	5.08
57	MP2C	Mx	.000128	5.08
58	MP2A	X	0	1.58
59	MP2A	Z	-3.288	1.58
60	MP2A	Mx	-.003	1.58
61	MP2B	X	0	1.58
62	MP2B	Z	-2.841	1.58
63	MP2B	Mx	.001	1.58
64	MP2C	X	0	1.58
65	MP2C	Z	-2.562	1.58
66	MP2C	Mx	.002	1.58
67	MP2A	X	0	1.84
68	MP2A	Z	-3.288	1.84
69	MP2A	Mx	.003	1.84
70	MP2B	X	0	1.84
71	MP2B	Z	-2.675	1.84
72	MP2B	Mx	-.002	1.84
73	MP2C	X	0	1.84
74	MP2C	Z	-2.292	1.84
75	MP2C	Mx	-.000571	1.84
76	MP1A	X	0	2.9
77	MP1A	Z	-4.158	2.9
78	MP1A	Mx	0	2.9
79	MP1A	X	0	4.3
80	MP1A	Z	-4.158	4.3
81	MP1A	Mx	0	4.3
82	MP1B	X	0	2.9
83	MP1B	Z	-3.032	2.9
84	MP1B	Mx	.000487	2.9
85	MP1B	X	0	4.3
86	MP1B	Z	-3.032	4.3
87	MP1B	Mx	.000487	4.3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP1C	X	0	2.9
89	MP1C	Z	-2.329	2.9
90	MP1C	Mx	-.000477	2.9
91	MP1C	X	0	4.3
92	MP1C	Z	-2.329	4.3
93	MP1C	Mx	-.000477	4.3
94	MP2A	X	0	7
95	MP2A	Z	-4.158	7
96	MP2A	Mx	0	7
97	MP2B	X	0	7
98	MP2B	Z	-3.16	7
99	MP2B	Mx	-.000508	7
100	MP2C	X	0	7
101	MP2C	Z	-2.537	7
102	MP2C	Mx	.00052	7
103	DC	X	0	1
104	DC	Z	-6.322	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	2.758	1
2	M93	Z	-4.777	1
3	M93	Mx	0	1
4	MP2A	X	4.417	.5
5	MP2A	Z	-7.651	.5
6	MP2A	Mx	-.007	.5
7	MP2A	X	4.417	5.5
8	MP2A	Z	-7.651	5.5
9	MP2A	Mx	-.007	5.5
10	MP2B	X	3.368	.5
11	MP2B	Z	-5.833	.5
12	MP2B	Mx	.003	.5
13	MP2B	X	3.368	5.5
14	MP2B	Z	-5.833	5.5
15	MP2B	Mx	.003	5.5
16	MP2C	X	4.536	.5
17	MP2C	Z	-7.856	.5
18	MP2C	Mx	.005	.5
19	MP2C	X	4.536	5.5
20	MP2C	Z	-7.856	5.5
21	MP2C	Mx	.005	5.5
22	MP2A	X	4.417	.5
23	MP2A	Z	-7.651	.5
24	MP2A	Mx	.005	.5
25	MP2A	X	4.417	5.5
26	MP2A	Z	-7.651	5.5
27	MP2A	Mx	.005	5.5
28	MP2B	X	3.368	.5
29	MP2B	Z	-5.833	.5
30	MP2B	Mx	-.000145	.5
31	MP2B	X	3.368	5.5
32	MP2B	Z	-5.833	5.5
33	MP2B	Mx	-.000145	5.5
34	MP2C	X	4.536	.5
35	MP2C	Z	-7.856	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2C	Mx	-.007	.5
37	MP2C	X	4.536	5.5
38	MP2C	Z	-7.856	5.5
39	MP2C	Mx	-.007	5.5
40	MP3A	X	.754	2
41	MP3A	Z	-1.307	2
42	MP3A	Mx	-.000188	2
43	MP3B	X	.274	2
44	MP3B	Z	-.474	2
45	MP3B	Mx	.000129	2
46	MP3C	X	.809	2
47	MP3C	Z	-1.4	2
48	MP3C	Mx	-.000171	2
49	MP2A	X	.362	5.08
50	MP2A	Z	-.627	5.08
51	MP2A	Mx	9e-5	5.08
52	MP2B	X	.286	5.08
53	MP2B	Z	-.495	5.08
54	MP2B	Mx	-.000134	5.08
55	MP2C	X	.371	5.08
56	MP2C	Z	-.642	5.08
57	MP2C	Mx	7.8e-5	5.08
58	MP2A	X	1.509	1.58
59	MP2A	Z	-2.614	1.58
60	MP2A	Mx	-.002	1.58
61	MP2B	X	1.167	1.58
62	MP2B	Z	-2.02	1.58
63	MP2B	Mx	8.3e-5	1.58
64	MP2C	X	1.548	1.58
65	MP2C	Z	-2.681	1.58
66	MP2C	Mx	.003	1.58
67	MP2A	X	1.459	1.84
68	MP2A	Z	-2.526	1.84
69	MP2A	Mx	.002	1.84
70	MP2B	X	.989	1.84
71	MP2B	Z	-1.712	1.84
72	MP2B	Mx	-.000999	1.84
73	MP2C	X	1.512	1.84
74	MP2C	Z	-2.618	1.84
75	MP2C	Mx	-.002	1.84
76	MP1A	X	1.738	2.9
77	MP1A	Z	-3.011	2.9
78	MP1A	Mx	-.000435	2.9
79	MP1A	X	1.738	4.3
80	MP1A	Z	-3.011	4.3
81	MP1A	Mx	-.000435	4.3
82	MP1B	X	.875	2.9
83	MP1B	Z	-1.516	2.9
84	MP1B	Mx	.000411	2.9
85	MP1B	X	.875	4.3
86	MP1B	Z	-1.516	4.3
87	MP1B	Mx	.000411	4.3
88	MP1C	X	1.836	2.9
89	MP1C	Z	-3.18	2.9
90	MP1C	Mx	-.000388	2.9
91	MP1C	X	1.836	4.3
92	MP1C	Z	-3.18	4.3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
93	MP1C	Mx	-.000388	4.3
94	MP2A	X	1.777	7
95	MP2A	Z	-3.078	7
96	MP2A	Mx	.000444	7
97	MP2B	X	1.013	7
98	MP2B	Z	-1.754	7
99	MP2B	Mx	-.000476	7
100	MP2C	X	1.863	7
101	MP2C	Z	-3.228	7
102	MP2C	Mx	.000394	7
103	DC	X	2.758	1
104	DC	Z	-4.777	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	4.428	1
2	M93	Z	-2.557	1
3	M93	Mx	0	1
4	MP2A	X	6.215	.5
5	MP2A	Z	-3.588	.5
6	MP2A	Mx	-.004	.5
7	MP2A	X	6.215	5.5
8	MP2A	Z	-3.588	5.5
9	MP2A	Mx	-.004	5.5
10	MP2B	X	5.583	.5
11	MP2B	Z	-3.224	.5
12	MP2B	Mx	.000748	.5
13	MP2B	X	5.583	5.5
14	MP2B	Z	-3.224	5.5
15	MP2B	Mx	.000748	5.5
16	MP2C	X	8.347	.5
17	MP2C	Z	-4.819	.5
18	MP2C	Mx	.007	.5
19	MP2C	X	8.347	5.5
20	MP2C	Z	-4.819	5.5
21	MP2C	Mx	.007	5.5
22	MP2A	X	6.215	.5
23	MP2A	Z	-3.588	.5
24	MP2A	Mx	.001	.5
25	MP2A	X	6.215	5.5
26	MP2A	Z	-3.588	5.5
27	MP2A	Mx	.001	5.5
28	MP2B	X	5.583	.5
29	MP2B	Z	-3.224	.5
30	MP2B	Mx	.002	.5
31	MP2B	X	5.583	5.5
32	MP2B	Z	-3.224	5.5
33	MP2B	Mx	.002	5.5
34	MP2C	X	8.347	.5
35	MP2C	Z	-4.819	.5
36	MP2C	Mx	-.007	.5
37	MP2C	X	8.347	5.5
38	MP2C	Z	-4.819	5.5
39	MP2C	Mx	-.007	5.5
40	MP3A	X	.649	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP3A	Z	-.375	2
42	MP3A	Mx	-.000162	2
43	MP3B	X	.36	2
44	MP3B	Z	-.208	2
45	MP3B	Mx	.000102	2
46	MP3C	X	1.625	2
47	MP3C	Z	-.938	2
48	MP3C	Mx	4.1e-5	2
49	MP2A	X	.523	5.08
50	MP2A	Z	-.302	5.08
51	MP2A	Mx	.000131	5.08
52	MP2B	X	.477	5.08
53	MP2B	Z	-.275	5.08
54	MP2B	Mx	-.000136	5.08
55	MP2C	X	.678	5.08
56	MP2C	Z	-.392	5.08
57	MP2C	Mx	-1.7e-5	5.08
58	MP2A	X	2.145	1.58
59	MP2A	Z	-1.238	1.58
60	MP2A	Mx	-.000444	1.58
61	MP2B	X	1.939	1.58
62	MP2B	Z	-1.12	1.58
63	MP2B	Mx	-.000859	1.58
64	MP2C	X	2.841	1.58
65	MP2C	Z	-1.64	1.58
66	MP2C	Mx	.003	1.58
67	MP2A	X	1.883	1.84
68	MP2A	Z	-1.087	1.84
69	MP2A	Mx	.001	1.84
70	MP2B	X	1.601	1.84
71	MP2B	Z	-.924	1.84
72	MP2B	Mx	-.000201	1.84
73	MP2C	X	2.838	1.84
74	MP2C	Z	-1.639	1.84
75	MP2C	Mx	-.003	1.84
76	MP1A	X	1.83	2.9
77	MP1A	Z	-1.057	2.9
78	MP1A	Mx	-.000458	2.9
79	MP1A	X	1.83	4.3
80	MP1A	Z	-1.057	4.3
81	MP1A	Mx	-.000458	4.3
82	MP1B	X	1.311	2.9
83	MP1B	Z	-.757	2.9
84	MP1B	Mx	.000373	2.9
85	MP1B	X	1.311	4.3
86	MP1B	Z	-.757	4.3
87	MP1B	Mx	.000373	4.3
88	MP1C	X	3.583	2.9
89	MP1C	Z	-2.069	2.9
90	MP1C	Mx	9e-5	2.9
91	MP1C	X	3.583	4.3
92	MP1C	Z	-2.069	4.3
93	MP1C	Mx	9e-5	4.3
94	MP2A	X	2.032	7
95	MP2A	Z	-1.173	7
96	MP2A	Mx	.000508	7
97	MP2B	X	1.572	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
98	MP2B	Z	-.908	7
99	MP2B	Mx	-.000447	7
100	MP2C	X	3.585	7
101	MP2C	Z	-2.07	7
102	MP2C	Mx	-9e-5	7
103	DC	X	4.428	1
104	DC	Z	-2.557	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	5.516	1
2	M93	Z	0	1
3	M93	Mx	0	1
4	MP2A	X	6.347	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	-.002	.5
7	MP2A	X	6.347	5.5
8	MP2A	Z	0	5.5
9	MP2A	Mx	-.002	5.5
10	MP2B	X	7.717	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	-.002	.5
13	MP2B	X	7.717	5.5
14	MP2B	Z	0	5.5
15	MP2B	Mx	-.002	5.5
16	MP2C	X	8.573	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	.006	.5
19	MP2C	X	8.573	5.5
20	MP2C	Z	0	5.5
21	MP2C	Mx	.006	5.5
22	MP2A	X	6.347	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.002	.5
25	MP2A	X	6.347	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	-.002	5.5
28	MP2B	X	7.717	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	.005	.5
31	MP2B	X	7.717	5.5
32	MP2B	Z	0	5.5
33	MP2B	Mx	.005	5.5
34	MP2C	X	8.573	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	-.004	.5
37	MP2C	X	8.573	5.5
38	MP2C	Z	0	5.5
39	MP2C	Mx	-.004	5.5
40	MP3A	X	.37	2
41	MP3A	Z	0	2
42	MP3A	Mx	-9.2e-5	2
43	MP3B	X	.997	2
44	MP3B	Z	0	2
45	MP3B	Mx	.000191	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
46	MP3C	X	1.389	2
47	MP3C	Z	0	2
48	MP3C	Mx	.000199	2
49	MP2A	X	.543	5.08
50	MP2A	Z	0	5.08
51	MP2A	Mx	.000136	5.08
52	MP2B	X	.643	5.08
53	MP2B	Z	0	5.08
54	MP2B	Mx	-.000123	5.08
55	MP2C	X	.705	5.08
56	MP2C	Z	0	5.08
57	MP2C	Mx	-.000101	5.08
58	MP2A	X	2.206	1.58
59	MP2A	Z	0	1.58
60	MP2A	Mx	.000552	1.58
61	MP2B	X	2.654	1.58
62	MP2B	Z	0	1.58
63	MP2B	Mx	-.002	1.58
64	MP2C	X	2.932	1.58
65	MP2C	Z	0	1.58
66	MP2C	Mx	.001	1.58
67	MP2A	X	1.803	1.84
68	MP2A	Z	0	1.84
69	MP2A	Mx	.000451	1.84
70	MP2B	X	2.417	1.84
71	MP2B	Z	0	1.84
72	MP2B	Mx	.000767	1.84
73	MP2C	X	2.8	1.84
74	MP2C	Z	0	1.84
75	MP2C	Mx	-.002	1.84
76	MP1A	X	1.432	2.9
77	MP1A	Z	0	2.9
78	MP1A	Mx	-.000358	2.9
79	MP1A	X	1.432	4.3
80	MP1A	Z	0	4.3
81	MP1A	Mx	-.000358	4.3
82	MP1B	X	2.558	2.9
83	MP1B	Z	0	2.9
84	MP1B	Mx	.00049	2.9
85	MP1B	X	2.558	4.3
86	MP1B	Z	0	4.3
87	MP1B	Mx	.00049	4.3
88	MP1C	X	3.261	2.9
89	MP1C	Z	0	2.9
90	MP1C	Mx	.000468	2.9
91	MP1C	X	3.261	4.3
92	MP1C	Z	0	4.3
93	MP1C	Mx	.000468	4.3
94	MP2A	X	1.743	7
95	MP2A	Z	0	7
96	MP2A	Mx	.000436	7
97	MP2B	X	2.741	7
98	MP2B	Z	0	7
99	MP2B	Mx	-.000525	7
100	MP2C	X	3.364	7
101	MP2C	Z	0	7
102	MP2C	Mx	-.000482	7

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
103	DC	X	5.516	1
104	DC	Z	0	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	5.475	1
2	M93	Z	3.161	1
3	M93	Mx	0	1
4	MP2A	X	6.215	.5
5	MP2A	Z	3.588	.5
6	MP2A	Mx	.001	.5
7	MP2A	X	6.215	5.5
8	MP2A	Z	3.588	5.5
9	MP2A	Mx	.001	5.5
10	MP2B	X	8.033	.5
11	MP2B	Z	4.638	.5
12	MP2B	Mx	-.006	.5
13	MP2B	X	8.033	5.5
14	MP2B	Z	4.638	5.5
15	MP2B	Mx	-.006	5.5
16	MP2C	X	6.01	.5
17	MP2C	Z	3.47	.5
18	MP2C	Mx	.004	.5
19	MP2C	X	6.01	5.5
20	MP2C	Z	3.47	5.5
21	MP2C	Mx	.004	5.5
22	MP2A	X	6.215	.5
23	MP2A	Z	3.588	.5
24	MP2A	Mx	-.004	.5
25	MP2A	X	6.215	5.5
26	MP2A	Z	3.588	5.5
27	MP2A	Mx	-.004	5.5
28	MP2B	X	8.033	.5
29	MP2B	Z	4.638	.5
30	MP2B	Mx	.007	.5
31	MP2B	X	8.033	5.5
32	MP2B	Z	4.638	5.5
33	MP2B	Mx	.007	5.5
34	MP2C	X	6.01	.5
35	MP2C	Z	3.47	.5
36	MP2C	Mx	-.000627	.5
37	MP2C	X	6.01	5.5
38	MP2C	Z	3.47	5.5
39	MP2C	Mx	-.000627	5.5
40	MP3A	X	.649	2
41	MP3A	Z	.375	2
42	MP3A	Mx	-.000162	2
43	MP3B	X	1.481	2
44	MP3B	Z	.855	2
45	MP3B	Mx	.000146	2
46	MP3C	X	.555	2
47	MP3C	Z	.321	2
48	MP3C	Mx	.000145	2
49	MP2A	X	.523	5.08
50	MP2A	Z	.302	5.08

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
51	MP2A	Mx	.000131	5.08
52	MP2B	X	.655	5.08
53	MP2B	Z	.378	5.08
54	MP2B	Mx	-6.5e-5	5.08
55	MP2C	X	.508	5.08
56	MP2C	Z	.293	5.08
57	MP2C	Mx	-.000133	5.08
58	MP2A	X	2.145	1.58
59	MP2A	Z	1.238	1.58
60	MP2A	Mx	.002	1.58
61	MP2B	X	2.738	1.58
62	MP2B	Z	1.581	1.58
63	MP2B	Mx	-.003	1.58
64	MP2C	X	2.078	1.58
65	MP2C	Z	1.2	1.58
66	MP2C	Mx	.000259	1.58
67	MP2A	X	1.883	1.84
68	MP2A	Z	1.087	1.84
69	MP2A	Mx	-.00039	1.84
70	MP2B	X	2.697	1.84
71	MP2B	Z	1.557	1.84
72	MP2B	Mx	.002	1.84
73	MP2C	X	1.791	1.84
74	MP2C	Z	1.034	1.84
75	MP2C	Mx	-.001	1.84
76	MP1A	X	1.83	2.9
77	MP1A	Z	1.057	2.9
78	MP1A	Mx	-.000458	2.9
79	MP1A	X	1.83	4.3
80	MP1A	Z	1.057	4.3
81	MP1A	Mx	-.000458	4.3
82	MP1B	X	3.325	2.9
83	MP1B	Z	1.92	2.9
84	MP1B	Mx	.000328	2.9
85	MP1B	X	3.325	4.3
86	MP1B	Z	1.92	4.3
87	MP1B	Mx	.000328	4.3
88	MP1C	X	1.662	2.9
89	MP1C	Z	.959	2.9
90	MP1C	Mx	.000435	2.9
91	MP1C	X	1.662	4.3
92	MP1C	Z	.959	4.3
93	MP1C	Mx	.000435	4.3
94	MP2A	X	2.032	7
95	MP2A	Z	1.173	7
96	MP2A	Mx	.000508	7
97	MP2B	X	3.356	7
98	MP2B	Z	1.938	7
99	MP2B	Mx	-.000331	7
100	MP2C	X	1.883	7
101	MP2C	Z	1.087	7
102	MP2C	Mx	-.000493	7
103	DC	X	5.475	1
104	DC	Z	3.161	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	3.363	1
2	M93	Z	5.824	1
3	M93	Mx	0	1
4	MP2A	X	4.417	.5
5	MP2A	Z	7.651	.5
6	MP2A	Mx	.005	.5
7	MP2A	X	4.417	5.5
8	MP2A	Z	7.651	5.5
9	MP2A	Mx	.005	5.5
10	MP2B	X	4.782	.5
11	MP2B	Z	8.282	.5
12	MP2B	Mx	-.007	.5
13	MP2B	X	4.782	5.5
14	MP2B	Z	8.282	5.5
15	MP2B	Mx	-.007	5.5
16	MP2C	X	3.186	.5
17	MP2C	Z	5.519	.5
18	MP2C	Mx	.001	.5
19	MP2C	X	3.186	5.5
20	MP2C	Z	5.519	5.5
21	MP2C	Mx	.001	5.5
22	MP2A	X	4.417	.5
23	MP2A	Z	7.651	.5
24	MP2A	Mx	-.007	.5
25	MP2A	X	4.417	5.5
26	MP2A	Z	7.651	5.5
27	MP2A	Mx	-.007	5.5
28	MP2B	X	4.782	.5
29	MP2B	Z	8.282	.5
30	MP2B	Mx	.007	.5
31	MP2B	X	4.782	5.5
32	MP2B	Z	8.282	5.5
33	MP2B	Mx	.007	5.5
34	MP2C	X	3.186	.5
35	MP2C	Z	5.519	.5
36	MP2C	Mx	.002	.5
37	MP2C	X	3.186	5.5
38	MP2C	Z	5.519	5.5
39	MP2C	Mx	.002	5.5
40	MP3A	X	.754	2
41	MP3A	Z	1.307	2
42	MP3A	Mx	-.000188	2
43	MP3B	X	.921	2
44	MP3B	Z	1.596	2
45	MP3B	Mx	-8e-5	2
46	MP3C	X	.191	2
47	MP3C	Z	.331	2
48	MP3C	Mx	9.5e-5	2
49	MP2A	X	.362	5.08
50	MP2A	Z	.627	5.08
51	MP2A	Mx	9e-5	5.08
52	MP2B	X	.389	5.08
53	MP2B	Z	.674	5.08
54	MP2B	Mx	3.4e-5	5.08
55	MP2C	X	.272	5.08
56	MP2C	Z	.472	5.08
57	MP2C	Mx	-.000136	5.08

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	X	1.509	1.58
59	MP2A	Z	2.614	1.58
60	MP2A	Mx	.002	1.58
61	MP2B	X	1.628	1.58
62	MP2B	Z	2.82	1.58
63	MP2B	Mx	-.002	1.58
64	MP2C	X	1.107	1.58
65	MP2C	Z	1.918	1.58
66	MP2C	Mx	-.000705	1.58
67	MP2A	X	1.459	1.84
68	MP2A	Z	2.526	1.84
69	MP2A	Mx	-.002	1.84
70	MP2B	X	1.622	1.84
71	MP2B	Z	2.809	1.84
72	MP2B	Mx	.003	1.84
73	MP2C	X	.907	1.84
74	MP2C	Z	1.572	1.84
75	MP2C	Mx	-.000326	1.84
76	MP1A	X	1.738	2.9
77	MP1A	Z	3.011	2.9
78	MP1A	Mx	-.000435	2.9
79	MP1A	X	1.738	4.3
80	MP1A	Z	3.011	4.3
81	MP1A	Mx	-.000435	4.3
82	MP1B	X	2.038	2.9
83	MP1B	Z	3.53	2.9
84	MP1B	Mx	-.000177	2.9
85	MP1B	X	2.038	4.3
86	MP1B	Z	3.53	4.3
87	MP1B	Mx	-.000177	4.3
88	MP1C	X	.726	2.9
89	MP1C	Z	1.258	2.9
90	MP1C	Mx	.000362	2.9
91	MP1C	X	.726	4.3
92	MP1C	Z	1.258	4.3
93	MP1C	Mx	.000362	4.3
94	MP2A	X	1.777	7
95	MP2A	Z	3.078	7
96	MP2A	Mx	.000444	7
97	MP2B	X	2.043	7
98	MP2B	Z	3.538	7
99	MP2B	Mx	.000177	7
100	MP2C	X	.88	7
101	MP2C	Z	1.525	7
102	MP2C	Mx	-.000438	7
103	DC	X	3.363	1
104	DC	Z	5.824	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	0	1
2	M93	Z	6.322	1
3	M93	Mx	0	1
4	MP2A	X	0	.5
5	MP2A	Z	9.664	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.007	.5
7	MP2A	X	0	5.5
8	MP2A	Z	9.664	5.5
9	MP2A	Mx	.007	5.5
10	MP2B	X	0	.5
11	MP2B	Z	8.293	.5
12	MP2B	Mx	-.006	.5
13	MP2B	X	0	5.5
14	MP2B	Z	8.293	5.5
15	MP2B	Mx	-.006	5.5
16	MP2C	X	0	.5
17	MP2C	Z	7.438	.5
18	MP2C	Mx	-.002	.5
19	MP2C	X	0	5.5
20	MP2C	Z	7.438	5.5
21	MP2C	Mx	-.002	5.5
22	MP2A	X	0	.5
23	MP2A	Z	9.664	.5
24	MP2A	Mx	-.007	.5
25	MP2A	X	0	5.5
26	MP2A	Z	9.664	5.5
27	MP2A	Mx	-.007	5.5
28	MP2B	X	0	.5
29	MP2B	Z	8.293	.5
30	MP2B	Mx	.003	.5
31	MP2B	X	0	5.5
32	MP2B	Z	8.293	5.5
33	MP2B	Mx	.003	5.5
34	MP2C	X	0	.5
35	MP2C	Z	7.438	.5
36	MP2C	Mx	.005	.5
37	MP2C	X	0	5.5
38	MP2C	Z	7.438	5.5
39	MP2C	Mx	.005	5.5
40	MP3A	X	0	2
41	MP3A	Z	1.888	2
42	MP3A	Mx	0	2
43	MP3B	X	0	2
44	MP3B	Z	1.261	2
45	MP3B	Mx	-.000203	2
46	MP3C	X	0	2
47	MP3C	Z	.87	2
48	MP3C	Mx	.000178	2
49	MP2A	X	0	5.08
50	MP2A	Z	.785	5.08
51	MP2A	Mx	0	5.08
52	MP2B	X	0	5.08
53	MP2B	Z	.685	5.08
54	MP2B	Mx	.00011	5.08
55	MP2C	X	0	5.08
56	MP2C	Z	.623	5.08
57	MP2C	Mx	-.000128	5.08
58	MP2A	X	0	1.58
59	MP2A	Z	3.288	1.58
60	MP2A	Mx	.003	1.58
61	MP2B	X	0	1.58
62	MP2B	Z	2.841	1.58

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2B	Mx	-.001	1.58
64	MP2C	X	0	1.58
65	MP2C	Z	2.562	1.58
66	MP2C	Mx	-.002	1.58
67	MP2A	X	0	1.84
68	MP2A	Z	3.288	1.84
69	MP2A	Mx	-.003	1.84
70	MP2B	X	0	1.84
71	MP2B	Z	2.675	1.84
72	MP2B	Mx	.002	1.84
73	MP2C	X	0	1.84
74	MP2C	Z	2.292	1.84
75	MP2C	Mx	.000571	1.84
76	MP1A	X	0	2.9
77	MP1A	Z	4.158	2.9
78	MP1A	Mx	0	2.9
79	MP1A	X	0	4.3
80	MP1A	Z	4.158	4.3
81	MP1A	Mx	0	4.3
82	MP1B	X	0	2.9
83	MP1B	Z	3.032	2.9
84	MP1B	Mx	-.000487	2.9
85	MP1B	X	0	4.3
86	MP1B	Z	3.032	4.3
87	MP1B	Mx	-.000487	4.3
88	MP1C	X	0	2.9
89	MP1C	Z	2.329	2.9
90	MP1C	Mx	.000477	2.9
91	MP1C	X	0	4.3
92	MP1C	Z	2.329	4.3
93	MP1C	Mx	.000477	4.3
94	MP2A	X	0	7
95	MP2A	Z	4.158	7
96	MP2A	Mx	0	7
97	MP2B	X	0	7
98	MP2B	Z	3.16	7
99	MP2B	Mx	.000508	7
100	MP2C	X	0	7
101	MP2C	Z	2.537	7
102	MP2C	Mx	-.00052	7
103	DC	X	0	1
104	DC	Z	6.322	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-2.758	1
2	M93	Z	4.777	1
3	M93	Mx	0	1
4	MP2A	X	-4.417	.5
5	MP2A	Z	7.651	.5
6	MP2A	Mx	.007	.5
7	MP2A	X	-4.417	5.5
8	MP2A	Z	7.651	5.5
9	MP2A	Mx	.007	5.5
10	MP2B	X	-3.368	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	5.833	.5
12	MP2B	Mx	-.003	.5
13	MP2B	X	-3.368	5.5
14	MP2B	Z	5.833	5.5
15	MP2B	Mx	-.003	5.5
16	MP2C	X	-4.536	.5
17	MP2C	Z	7.856	.5
18	MP2C	Mx	-.005	.5
19	MP2C	X	-4.536	5.5
20	MP2C	Z	7.856	5.5
21	MP2C	Mx	-.005	5.5
22	MP2A	X	-4.417	.5
23	MP2A	Z	7.651	.5
24	MP2A	Mx	-.005	.5
25	MP2A	X	-4.417	5.5
26	MP2A	Z	7.651	5.5
27	MP2A	Mx	-.005	5.5
28	MP2B	X	-3.368	.5
29	MP2B	Z	5.833	.5
30	MP2B	Mx	.000145	.5
31	MP2B	X	-3.368	5.5
32	MP2B	Z	5.833	5.5
33	MP2B	Mx	.000145	5.5
34	MP2C	X	-4.536	.5
35	MP2C	Z	7.856	.5
36	MP2C	Mx	.007	.5
37	MP2C	X	-4.536	5.5
38	MP2C	Z	7.856	5.5
39	MP2C	Mx	.007	5.5
40	MP3A	X	-.754	2
41	MP3A	Z	1.307	2
42	MP3A	Mx	.000188	2
43	MP3B	X	-.274	2
44	MP3B	Z	.474	2
45	MP3B	Mx	-.000129	2
46	MP3C	X	-.809	2
47	MP3C	Z	1.4	2
48	MP3C	Mx	.000171	2
49	MP2A	X	-.362	5.08
50	MP2A	Z	.627	5.08
51	MP2A	Mx	-9e-5	5.08
52	MP2B	X	-.286	5.08
53	MP2B	Z	.495	5.08
54	MP2B	Mx	.000134	5.08
55	MP2C	X	-.371	5.08
56	MP2C	Z	.642	5.08
57	MP2C	Mx	-7.8e-5	5.08
58	MP2A	X	-1.509	1.58
59	MP2A	Z	2.614	1.58
60	MP2A	Mx	.002	1.58
61	MP2B	X	-1.167	1.58
62	MP2B	Z	2.02	1.58
63	MP2B	Mx	-8.3e-5	1.58
64	MP2C	X	-1.548	1.58
65	MP2C	Z	2.681	1.58
66	MP2C	Mx	-.003	1.58
67	MP2A	X	-1.459	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP2A	Z	2.526	1.84
69	MP2A	Mx	-.002	1.84
70	MP2B	X	-.989	1.84
71	MP2B	Z	1.712	1.84
72	MP2B	Mx	.000999	1.84
73	MP2C	X	-1.512	1.84
74	MP2C	Z	2.618	1.84
75	MP2C	Mx	.002	1.84
76	MP1A	X	-1.738	2.9
77	MP1A	Z	3.011	2.9
78	MP1A	Mx	.000435	2.9
79	MP1A	X	-1.738	4.3
80	MP1A	Z	3.011	4.3
81	MP1A	Mx	.000435	4.3
82	MP1B	X	-.875	2.9
83	MP1B	Z	1.516	2.9
84	MP1B	Mx	-.000411	2.9
85	MP1B	X	-.875	4.3
86	MP1B	Z	1.516	4.3
87	MP1B	Mx	-.000411	4.3
88	MP1C	X	-1.836	2.9
89	MP1C	Z	3.18	2.9
90	MP1C	Mx	.000388	2.9
91	MP1C	X	-1.836	4.3
92	MP1C	Z	3.18	4.3
93	MP1C	Mx	.000388	4.3
94	MP2A	X	-1.777	7
95	MP2A	Z	3.078	7
96	MP2A	Mx	-.000444	7
97	MP2B	X	-1.013	7
98	MP2B	Z	1.754	7
99	MP2B	Mx	.000476	7
100	MP2C	X	-1.863	7
101	MP2C	Z	3.228	7
102	MP2C	Mx	-.000394	7
103	DC	X	-2.758	1
104	DC	Z	4.777	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-4.428	1
2	M93	Z	2.557	1
3	M93	Mx	0	1
4	MP2A	X	-6.215	.5
5	MP2A	Z	3.588	.5
6	MP2A	Mx	.004	.5
7	MP2A	X	-6.215	5.5
8	MP2A	Z	3.588	5.5
9	MP2A	Mx	.004	5.5
10	MP2B	X	-5.583	.5
11	MP2B	Z	3.224	.5
12	MP2B	Mx	-.000748	.5
13	MP2B	X	-5.583	5.5
14	MP2B	Z	3.224	5.5
15	MP2B	Mx	-.000748	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	-8.347	.5
17	MP2C	Z	4.819	.5
18	MP2C	Mx	-.007	.5
19	MP2C	X	-8.347	5.5
20	MP2C	Z	4.819	5.5
21	MP2C	Mx	-.007	5.5
22	MP2A	X	-6.215	.5
23	MP2A	Z	3.588	.5
24	MP2A	Mx	-.001	.5
25	MP2A	X	-6.215	5.5
26	MP2A	Z	3.588	5.5
27	MP2A	Mx	-.001	5.5
28	MP2B	X	-5.583	.5
29	MP2B	Z	3.224	.5
30	MP2B	Mx	-.002	.5
31	MP2B	X	-5.583	5.5
32	MP2B	Z	3.224	5.5
33	MP2B	Mx	-.002	5.5
34	MP2C	X	-8.347	.5
35	MP2C	Z	4.819	.5
36	MP2C	Mx	.007	.5
37	MP2C	X	-8.347	5.5
38	MP2C	Z	4.819	5.5
39	MP2C	Mx	.007	5.5
40	MP3A	X	-.649	2
41	MP3A	Z	.375	2
42	MP3A	Mx	.000162	2
43	MP3B	X	-.36	2
44	MP3B	Z	.208	2
45	MP3B	Mx	-.000102	2
46	MP3C	X	-1.625	2
47	MP3C	Z	.938	2
48	MP3C	Mx	-4.1e-5	2
49	MP2A	X	-.523	5.08
50	MP2A	Z	.302	5.08
51	MP2A	Mx	-.000131	5.08
52	MP2B	X	-.477	5.08
53	MP2B	Z	.275	5.08
54	MP2B	Mx	.000136	5.08
55	MP2C	X	-.678	5.08
56	MP2C	Z	.392	5.08
57	MP2C	Mx	1.7e-5	5.08
58	MP2A	X	-2.145	1.58
59	MP2A	Z	1.238	1.58
60	MP2A	Mx	.000444	1.58
61	MP2B	X	-1.939	1.58
62	MP2B	Z	1.12	1.58
63	MP2B	Mx	.000859	1.58
64	MP2C	X	-2.841	1.58
65	MP2C	Z	1.64	1.58
66	MP2C	Mx	-.003	1.58
67	MP2A	X	-1.883	1.84
68	MP2A	Z	1.087	1.84
69	MP2A	Mx	-.001	1.84
70	MP2B	X	-1.601	1.84
71	MP2B	Z	.924	1.84
72	MP2B	Mx	.000201	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP2C	X	-2.838	1.84
74	MP2C	Z	1.639	1.84
75	MP2C	Mx	.003	1.84
76	MP1A	X	-1.83	2.9
77	MP1A	Z	1.057	2.9
78	MP1A	Mx	.000458	2.9
79	MP1A	X	-1.83	4.3
80	MP1A	Z	1.057	4.3
81	MP1A	Mx	.000458	4.3
82	MP1B	X	-1.311	2.9
83	MP1B	Z	.757	2.9
84	MP1B	Mx	-.000373	2.9
85	MP1B	X	-1.311	4.3
86	MP1B	Z	.757	4.3
87	MP1B	Mx	-.000373	4.3
88	MP1C	X	-3.583	2.9
89	MP1C	Z	2.069	2.9
90	MP1C	Mx	-9e-5	2.9
91	MP1C	X	-3.583	4.3
92	MP1C	Z	2.069	4.3
93	MP1C	Mx	-9e-5	4.3
94	MP2A	X	-2.032	7
95	MP2A	Z	1.173	7
96	MP2A	Mx	-.000508	7
97	MP2B	X	-1.572	7
98	MP2B	Z	.908	7
99	MP2B	Mx	.000447	7
100	MP2C	X	-3.585	7
101	MP2C	Z	2.07	7
102	MP2C	Mx	9e-5	7
103	DC	X	-4.428	1
104	DC	Z	2.557	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-5.516	1
2	M93	Z	0	1
3	M93	Mx	0	1
4	MP2A	X	-6.347	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	.002	.5
7	MP2A	X	-6.347	5.5
8	MP2A	Z	0	5.5
9	MP2A	Mx	.002	5.5
10	MP2B	X	-7.717	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	.002	.5
13	MP2B	X	-7.717	5.5
14	MP2B	Z	0	5.5
15	MP2B	Mx	.002	5.5
16	MP2C	X	-8.573	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	-.006	.5
19	MP2C	X	-8.573	5.5
20	MP2C	Z	0	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP2C	Mx	-.006	5.5
22	MP2A	X	-6.347	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.002	.5
25	MP2A	X	-6.347	5.5
26	MP2A	Z	0	5.5
27	MP2A	Mx	.002	5.5
28	MP2B	X	-7.717	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	-.005	.5
31	MP2B	X	-7.717	5.5
32	MP2B	Z	0	5.5
33	MP2B	Mx	-.005	5.5
34	MP2C	X	-8.573	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	.004	.5
37	MP2C	X	-8.573	5.5
38	MP2C	Z	0	5.5
39	MP2C	Mx	.004	5.5
40	MP3A	X	-.37	2
41	MP3A	Z	0	2
42	MP3A	Mx	9.2e-5	2
43	MP3B	X	-.997	2
44	MP3B	Z	0	2
45	MP3B	Mx	-.000191	2
46	MP3C	X	-1.389	2
47	MP3C	Z	0	2
48	MP3C	Mx	-.000199	2
49	MP2A	X	-.543	5.08
50	MP2A	Z	0	5.08
51	MP2A	Mx	-.000136	5.08
52	MP2B	X	-.643	5.08
53	MP2B	Z	0	5.08
54	MP2B	Mx	.000123	5.08
55	MP2C	X	-.705	5.08
56	MP2C	Z	0	5.08
57	MP2C	Mx	.000101	5.08
58	MP2A	X	-2.206	1.58
59	MP2A	Z	0	1.58
60	MP2A	Mx	-.000552	1.58
61	MP2B	X	-2.654	1.58
62	MP2B	Z	0	1.58
63	MP2B	Mx	.002	1.58
64	MP2C	X	-2.932	1.58
65	MP2C	Z	0	1.58
66	MP2C	Mx	-.001	1.58
67	MP2A	X	-1.803	1.84
68	MP2A	Z	0	1.84
69	MP2A	Mx	-.000451	1.84
70	MP2B	X	-2.417	1.84
71	MP2B	Z	0	1.84
72	MP2B	Mx	-.000767	1.84
73	MP2C	X	-2.8	1.84
74	MP2C	Z	0	1.84
75	MP2C	Mx	.002	1.84
76	MP1A	X	-1.432	2.9
77	MP1A	Z	0	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP1A	Mx	.000358	2.9
79	MP1A	X	-1.432	4.3
80	MP1A	Z	0	4.3
81	MP1A	Mx	.000358	4.3
82	MP1B	X	-2.558	2.9
83	MP1B	Z	0	2.9
84	MP1B	Mx	-.00049	2.9
85	MP1B	X	-2.558	4.3
86	MP1B	Z	0	4.3
87	MP1B	Mx	-.00049	4.3
88	MP1C	X	-3.261	2.9
89	MP1C	Z	0	2.9
90	MP1C	Mx	-.000468	2.9
91	MP1C	X	-3.261	4.3
92	MP1C	Z	0	4.3
93	MP1C	Mx	-.000468	4.3
94	MP2A	X	-1.743	7
95	MP2A	Z	0	7
96	MP2A	Mx	-.000436	7
97	MP2B	X	-2.741	7
98	MP2B	Z	0	7
99	MP2B	Mx	.000525	7
100	MP2C	X	-3.364	7
101	MP2C	Z	0	7
102	MP2C	Mx	.000482	7
103	DC	X	-5.516	1
104	DC	Z	0	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-5.475	1
2	M93	Z	-3.161	1
3	M93	Mx	0	1
4	MP2A	X	-6.215	.5
5	MP2A	Z	-3.588	.5
6	MP2A	Mx	-.001	.5
7	MP2A	X	-6.215	5.5
8	MP2A	Z	-3.588	5.5
9	MP2A	Mx	-.001	5.5
10	MP2B	X	-8.033	.5
11	MP2B	Z	-4.638	.5
12	MP2B	Mx	.006	.5
13	MP2B	X	-8.033	5.5
14	MP2B	Z	-4.638	5.5
15	MP2B	Mx	.006	5.5
16	MP2C	X	-6.01	.5
17	MP2C	Z	-3.47	.5
18	MP2C	Mx	-.004	.5
19	MP2C	X	-6.01	5.5
20	MP2C	Z	-3.47	5.5
21	MP2C	Mx	-.004	5.5
22	MP2A	X	-6.215	.5
23	MP2A	Z	-3.588	.5
24	MP2A	Mx	.004	.5
25	MP2A	X	-6.215	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2A	Z	-3.588	5.5
27	MP2A	Mx	.004	5.5
28	MP2B	X	-8.033	.5
29	MP2B	Z	-4.638	.5
30	MP2B	Mx	-.007	.5
31	MP2B	X	-8.033	5.5
32	MP2B	Z	-4.638	5.5
33	MP2B	Mx	-.007	5.5
34	MP2C	X	-6.01	.5
35	MP2C	Z	-3.47	.5
36	MP2C	Mx	.000627	.5
37	MP2C	X	-6.01	5.5
38	MP2C	Z	-3.47	5.5
39	MP2C	Mx	.000627	5.5
40	MP3A	X	-.649	2
41	MP3A	Z	-.375	2
42	MP3A	Mx	.000162	2
43	MP3B	X	-1.481	2
44	MP3B	Z	-.855	2
45	MP3B	Mx	-.000146	2
46	MP3C	X	-.555	2
47	MP3C	Z	-.321	2
48	MP3C	Mx	-.000145	2
49	MP2A	X	-.523	5.08
50	MP2A	Z	-.302	5.08
51	MP2A	Mx	-.000131	5.08
52	MP2B	X	-.655	5.08
53	MP2B	Z	-.378	5.08
54	MP2B	Mx	6.5e-5	5.08
55	MP2C	X	-.508	5.08
56	MP2C	Z	-.293	5.08
57	MP2C	Mx	.000133	5.08
58	MP2A	X	-2.145	1.58
59	MP2A	Z	-1.238	1.58
60	MP2A	Mx	-.002	1.58
61	MP2B	X	-2.738	1.58
62	MP2B	Z	-1.581	1.58
63	MP2B	Mx	.003	1.58
64	MP2C	X	-2.078	1.58
65	MP2C	Z	-1.2	1.58
66	MP2C	Mx	-.000259	1.58
67	MP2A	X	-1.883	1.84
68	MP2A	Z	-1.087	1.84
69	MP2A	Mx	.00039	1.84
70	MP2B	X	-2.697	1.84
71	MP2B	Z	-1.557	1.84
72	MP2B	Mx	-.002	1.84
73	MP2C	X	-1.791	1.84
74	MP2C	Z	-1.034	1.84
75	MP2C	Mx	.001	1.84
76	MP1A	X	-1.83	2.9
77	MP1A	Z	-1.057	2.9
78	MP1A	Mx	.000458	2.9
79	MP1A	X	-1.83	4.3
80	MP1A	Z	-1.057	4.3
81	MP1A	Mx	.000458	4.3
82	MP1B	X	-3.325	2.9

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP1B	Z	-1.92	2.9
84	MP1B	Mx	-.000328	2.9
85	MP1B	X	-3.325	4.3
86	MP1B	Z	-1.92	4.3
87	MP1B	Mx	-.000328	4.3
88	MP1C	X	-1.662	2.9
89	MP1C	Z	-.959	2.9
90	MP1C	Mx	-.000435	2.9
91	MP1C	X	-1.662	4.3
92	MP1C	Z	-.959	4.3
93	MP1C	Mx	-.000435	4.3
94	MP2A	X	-2.032	7
95	MP2A	Z	-1.173	7
96	MP2A	Mx	-.000508	7
97	MP2B	X	-3.356	7
98	MP2B	Z	-1.938	7
99	MP2B	Mx	.000331	7
100	MP2C	X	-1.883	7
101	MP2C	Z	-1.087	7
102	MP2C	Mx	.000493	7
103	DC	X	-5.475	1
104	DC	Z	-3.161	1
105	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	-3.363	1
2	M93	Z	-5.824	1
3	M93	Mx	0	1
4	MP2A	X	-4.417	.5
5	MP2A	Z	-7.651	.5
6	MP2A	Mx	-.005	.5
7	MP2A	X	-4.417	5.5
8	MP2A	Z	-7.651	5.5
9	MP2A	Mx	-.005	5.5
10	MP2B	X	-4.782	.5
11	MP2B	Z	-8.282	.5
12	MP2B	Mx	.007	.5
13	MP2B	X	-4.782	5.5
14	MP2B	Z	-8.282	5.5
15	MP2B	Mx	.007	5.5
16	MP2C	X	-3.186	.5
17	MP2C	Z	-5.519	.5
18	MP2C	Mx	-.001	.5
19	MP2C	X	-3.186	5.5
20	MP2C	Z	-5.519	5.5
21	MP2C	Mx	-.001	5.5
22	MP2A	X	-4.417	.5
23	MP2A	Z	-7.651	.5
24	MP2A	Mx	.007	.5
25	MP2A	X	-4.417	5.5
26	MP2A	Z	-7.651	5.5
27	MP2A	Mx	.007	5.5
28	MP2B	X	-4.782	.5
29	MP2B	Z	-8.282	.5
30	MP2B	Mx	-.007	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP2B	X	-4.782	5.5
32	MP2B	Z	-8.282	5.5
33	MP2B	Mx	-.007	5.5
34	MP2C	X	-3.186	.5
35	MP2C	Z	-5.519	.5
36	MP2C	Mx	-.002	.5
37	MP2C	X	-3.186	5.5
38	MP2C	Z	-5.519	5.5
39	MP2C	Mx	-.002	5.5
40	MP3A	X	-.754	2
41	MP3A	Z	-1.307	2
42	MP3A	Mx	.000188	2
43	MP3B	X	-.921	2
44	MP3B	Z	-1.596	2
45	MP3B	Mx	8e-5	2
46	MP3C	X	-.191	2
47	MP3C	Z	-.331	2
48	MP3C	Mx	-9.5e-5	2
49	MP2A	X	-.362	5.08
50	MP2A	Z	-.627	5.08
51	MP2A	Mx	-9e-5	5.08
52	MP2B	X	-.389	5.08
53	MP2B	Z	-.674	5.08
54	MP2B	Mx	-3.4e-5	5.08
55	MP2C	X	-.272	5.08
56	MP2C	Z	-.472	5.08
57	MP2C	Mx	.000136	5.08
58	MP2A	X	-1.509	1.58
59	MP2A	Z	-2.614	1.58
60	MP2A	Mx	-.002	1.58
61	MP2B	X	-1.628	1.58
62	MP2B	Z	-2.82	1.58
63	MP2B	Mx	.002	1.58
64	MP2C	X	-1.107	1.58
65	MP2C	Z	-1.918	1.58
66	MP2C	Mx	.000705	1.58
67	MP2A	X	-1.459	1.84
68	MP2A	Z	-2.526	1.84
69	MP2A	Mx	.002	1.84
70	MP2B	X	-1.622	1.84
71	MP2B	Z	-2.809	1.84
72	MP2B	Mx	-.003	1.84
73	MP2C	X	-.907	1.84
74	MP2C	Z	-1.572	1.84
75	MP2C	Mx	.000326	1.84
76	MP1A	X	-1.738	2.9
77	MP1A	Z	-3.011	2.9
78	MP1A	Mx	.000435	2.9
79	MP1A	X	-1.738	4.3
80	MP1A	Z	-3.011	4.3
81	MP1A	Mx	.000435	4.3
82	MP1B	X	-2.038	2.9
83	MP1B	Z	-3.53	2.9
84	MP1B	Mx	.000177	2.9
85	MP1B	X	-2.038	4.3
86	MP1B	Z	-3.53	4.3
87	MP1B	Mx	.000177	4.3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP1C	X	-.726	2.9
89	MP1C	Z	-1.258	2.9
90	MP1C	Mx	-.000362	2.9
91	MP1C	X	-.726	4.3
92	MP1C	Z	-1.258	4.3
93	MP1C	Mx	-.000362	4.3
94	MP2A	X	-1.777	7
95	MP2A	Z	-3.078	7
96	MP2A	Mx	-.000444	7
97	MP2B	X	-2.043	7
98	MP2B	Z	-3.538	7
99	MP2B	Mx	-.000177	7
100	MP2C	X	-.88	7
101	MP2C	Z	-1.525	7
102	MP2C	Mx	.000438	7
103	DC	X	-3.363	1
104	DC	Z	-5.824	1
105	DC	Mx	0	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M45	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M46	Y	-500	0

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M94A	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M94A	Y	-250	0

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	Y	0	1
2	M93	My	0	1
3	M93	Mz	0	1
4	MP2A	Y	0	.5
5	MP2A	My	0	.5
6	MP2A	Mz	0	.5
7	MP2A	Y	0	5.5
8	MP2A	My	0	5.5
9	MP2A	Mz	0	5.5
10	MP2B	Y	0	.5
11	MP2B	My	0	.5
12	MP2B	Mz	0	.5
13	MP2B	Y	0	5.5
14	MP2B	My	0	5.5
15	MP2B	Mz	0	5.5
16	MP2C	Y	0	.5
17	MP2C	My	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP2C	Mz	0	.5
19	MP2C	Y	0	5.5
20	MP2C	My	0	5.5
21	MP2C	Mz	0	5.5
22	MP2A	Y	0	.5
23	MP2A	My	0	.5
24	MP2A	Mz	0	.5
25	MP2A	Y	0	5.5
26	MP2A	My	0	5.5
27	MP2A	Mz	0	5.5
28	MP2B	Y	0	.5
29	MP2B	My	0	.5
30	MP2B	Mz	0	.5
31	MP2B	Y	0	5.5
32	MP2B	My	0	5.5
33	MP2B	Mz	0	5.5
34	MP2C	Y	0	.5
35	MP2C	My	0	.5
36	MP2C	Mz	0	.5
37	MP2C	Y	0	5.5
38	MP2C	My	0	5.5
39	MP2C	Mz	0	5.5
40	MP3A	Y	0	2
41	MP3A	My	0	2
42	MP3A	Mz	0	2
43	MP3B	Y	0	2
44	MP3B	My	0	2
45	MP3B	Mz	0	2
46	MP3C	Y	0	2
47	MP3C	My	0	2
48	MP3C	Mz	0	2
49	MP2A	Y	0	5.08
50	MP2A	My	0	5.08
51	MP2A	Mz	0	5.08
52	MP2B	Y	0	5.08
53	MP2B	My	0	5.08
54	MP2B	Mz	0	5.08
55	MP2C	Y	0	5.08
56	MP2C	My	0	5.08
57	MP2C	Mz	0	5.08
58	MP2A	Y	0	1.58
59	MP2A	My	0	1.58
60	MP2A	Mz	0	1.58
61	MP2B	Y	0	1.58
62	MP2B	My	0	1.58
63	MP2B	Mz	0	1.58
64	MP2C	Y	0	1.58
65	MP2C	My	0	1.58
66	MP2C	Mz	0	1.58
67	MP2A	Y	0	1.84
68	MP2A	My	0	1.84
69	MP2A	Mz	0	1.84
70	MP2B	Y	0	1.84
71	MP2B	My	0	1.84
72	MP2B	Mz	0	1.84
73	MP2C	Y	0	1.84
74	MP2C	My	0	1.84

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
75	MP2C	Mz	0	1.84
76	MP1A	Y	0	2.9
77	MP1A	My	0	2.9
78	MP1A	Mz	0	2.9
79	MP1A	Y	0	4.3
80	MP1A	My	0	4.3
81	MP1A	Mz	0	4.3
82	MP1B	Y	0	2.9
83	MP1B	My	0	2.9
84	MP1B	Mz	0	2.9
85	MP1B	Y	0	4.3
86	MP1B	My	0	4.3
87	MP1B	Mz	0	4.3
88	MP1C	Y	0	2.9
89	MP1C	My	0	2.9
90	MP1C	Mz	0	2.9
91	MP1C	Y	0	4.3
92	MP1C	My	0	4.3
93	MP1C	Mz	0	4.3
94	MP2A	Y	0	7
95	MP2A	My	0	7
96	MP2A	Mz	0	7
97	MP2B	Y	0	7
98	MP2B	My	0	7
99	MP2B	Mz	0	7
100	MP2C	Y	0	7
101	MP2C	My	0	7
102	MP2C	Mz	0	7
103	DC	Y	0	1
104	DC	My	0	1
105	DC	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	Z	-.96	1
2	M93	Mx	0	1
3	MP2A	Z	-.95	.5
4	MP2A	Mx	-.000712	.5
5	MP2A	Z	-.95	5.5
6	MP2A	Mx	-.000712	5.5
7	MP2B	Z	-.95	.5
8	MP2B	Mx	.000698	.5
9	MP2B	Z	-.95	5.5
10	MP2B	Mx	.000698	5.5
11	MP2C	Z	-.95	.5
12	MP2C	Mx	.000214	.5
13	MP2C	Z	-.95	5.5
14	MP2C	Mx	.000214	5.5
15	MP2A	Z	-.95	.5
16	MP2A	Mx	.000712	.5
17	MP2A	Z	-.95	5.5
18	MP2A	Mx	.000712	5.5
19	MP2B	Z	-.95	.5
20	MP2B	Mx	-.000393	.5
21	MP2B	Z	-.95	5.5
22	MP2B	Mx	-.000393	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2C	Z	-.95	.5
24	MP2C	Mx	-.000603	.5
25	MP2C	Z	-.95	5.5
26	MP2C	Mx	-.000603	5.5
27	MP3A	Z	-.132	2
28	MP3A	Mx	0	2
29	MP3B	Z	-.132	2
30	MP3B	Mx	2.1e-5	2
31	MP3C	Z	-.132	2
32	MP3C	Mx	-2.7e-5	2
33	MP2A	Z	-.312	5.08
34	MP2A	Mx	0	5.08
35	MP2B	Z	-.312	5.08
36	MP2B	Mx	-5e-5	5.08
37	MP2C	Z	-.312	5.08
38	MP2C	Mx	6.4e-5	5.08
39	MP2A	Z	-2.532	1.58
40	MP2A	Mx	-.002	1.58
41	MP2B	Z	-2.532	1.58
42	MP2B	Mx	.001	1.58
43	MP2C	Z	-2.532	1.58
44	MP2C	Mx	.002	1.58
45	MP2A	Z	-2.109	1.84
46	MP2A	Mx	.002	1.84
47	MP2B	Z	-2.109	1.84
48	MP2B	Mx	-.002	1.84
49	MP2C	Z	-2.109	1.84
50	MP2C	Mx	-.000526	1.84
51	MP1A	Z	-1.306	2.9
52	MP1A	Mx	0	2.9
53	MP1A	Z	-1.306	4.3
54	MP1A	Mx	0	4.3
55	MP1B	Z	-1.306	2.9
56	MP1B	Mx	.00021	2.9
57	MP1B	Z	-1.306	4.3
58	MP1B	Mx	.00021	4.3
59	MP1C	Z	-1.306	2.9
60	MP1C	Mx	-.000268	2.9
61	MP1C	Z	-1.306	4.3
62	MP1C	Mx	-.000268	4.3
63	MP2A	Z	-1.587	7
64	MP2A	Mx	0	7
65	MP2B	Z	-1.587	7
66	MP2B	Mx	-.000255	7
67	MP2C	Z	-1.587	7
68	MP2C	Mx	.000325	7
69	DC	Z	-.96	1
70	DC	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M93	X	.96	1
2	M93	Mx	0	1
3	MP2A	X	.95	.5
4	MP2A	Mx	-.000237	.5
5	MP2A	X	.95	5.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	-.000237	5.5
7	MP2B	X	.95	.5
8	MP2B	Mx	-.000276	.5
9	MP2B	X	.95	5.5
10	MP2B	Mx	-.000276	5.5
11	MP2C	X	.95	.5
12	MP2C	Mx	.000719	.5
13	MP2C	X	.95	5.5
14	MP2C	Mx	.000719	5.5
15	MP2A	X	.95	.5
16	MP2A	Mx	-.000237	.5
17	MP2A	X	.95	5.5
18	MP2A	Mx	-.000237	5.5
19	MP2B	X	.95	.5
20	MP2B	Mx	.00064	.5
21	MP2B	X	.95	5.5
22	MP2B	Mx	.00064	5.5
23	MP2C	X	.95	.5
24	MP2C	Mx	-.000447	.5
25	MP2C	X	.95	5.5
26	MP2C	Mx	-.000447	5.5
27	MP3A	X	.132	2
28	MP3A	Mx	-3.3e-5	2
29	MP3B	X	.132	2
30	MP3B	Mx	2.5e-5	2
31	MP3C	X	.132	2
32	MP3C	Mx	1.9e-5	2
33	MP2A	X	.312	5.08
34	MP2A	Mx	7.8e-5	5.08
35	MP2B	X	.312	5.08
36	MP2B	Mx	-6e-5	5.08
37	MP2C	X	.312	5.08
38	MP2C	Mx	-4.5e-5	5.08
39	MP2A	X	2.532	1.58
40	MP2A	Mx	.000633	1.58
41	MP2B	X	2.532	1.58
42	MP2B	Mx	-.002	1.58
43	MP2C	X	2.532	1.58
44	MP2C	Mx	.001	1.58
45	MP2A	X	2.109	1.84
46	MP2A	Mx	.000527	1.84
47	MP2B	X	2.109	1.84
48	MP2B	Mx	.000669	1.84
49	MP2C	X	2.109	1.84
50	MP2C	Mx	-.002	1.84
51	MP1A	X	1.306	2.9
52	MP1A	Mx	-.000327	2.9
53	MP1A	X	1.306	4.3
54	MP1A	Mx	-.000327	4.3
55	MP1B	X	1.306	2.9
56	MP1B	Mx	.00025	2.9
57	MP1B	X	1.306	4.3
58	MP1B	Mx	.00025	4.3
59	MP1C	X	1.306	2.9
60	MP1C	Mx	.000187	2.9
61	MP1C	X	1.306	4.3
62	MP1C	Mx	.000187	4.3

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2A	X	1.587	7
64	MP2A	Mx	.000397	7
65	MP2B	X	1.587	7
66	MP2B	Mx	-.000304	7
67	MP2C	X	1.587	7
68	MP2C	Mx	-.000228	7
69	DC	X	.96	1
70	DC	Mx	0	1

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	M4	Y	-9.609	-9.609	0	%100
2	M14	Y	-9.609	-9.609	0	%100
3	M27	Y	-9.609	-9.609	0	%100
4	MP4A	Y	-4.979	-4.979	0	%100
5	MP3A	Y	-4.979	-4.979	0	%100
6	MP2A	Y	-4.979	-4.979	0	%100
7	MP1A	Y	-4.979	-4.979	0	%100
8	M71	Y	-4.979	-4.979	0	%100
9	M80	Y	-6.616	-6.616	0	%100
10	M93	Y	-4.979	-4.979	0	%100
11	M94A	Y	-9.609	-9.609	0	%100
12	M95A	Y	-9.609	-9.609	0	%100
13	M96A	Y	-9.609	-9.609	0	%100
14	MP4C	Y	-4.979	-4.979	0	%100
15	MP3C	Y	-4.979	-4.979	0	%100
16	MP2C	Y	-4.979	-4.979	0	%100
17	MP1C	Y	-4.979	-4.979	0	%100
18	M72	Y	-4.979	-4.979	0	%100
19	MP4B	Y	-4.979	-4.979	0	%100
20	MP3B	Y	-4.979	-4.979	0	%100
21	MP2B	Y	-4.979	-4.979	0	%100
22	MP1B	Y	-4.979	-4.979	0	%100
23	M87A	Y	-4.979	-4.979	0	%100
24	M93C	Y	-6.616	-6.616	0	%100
25	M94B	Y	-6.616	-6.616	0	%100
26	DC	Y	-4.979	-4.979	0	%100
27	M95B	Y	-10.093	-10.093	0	%100
28	M96C	Y	-10.093	-10.093	0	%100
29	M97	Y	-10.093	-10.093	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-10.472	-10.472	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-10.472	-10.472	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-7.533	-7.533	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-7.533	-7.533	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-7.533	-7.533	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,%]
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-7.533	-7.533	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	-7.533	-7.533	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-2.481	-2.481	0	%100
19	M93	X	0	0	0	%100
20	M93	Z	-6.865	-6.865	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	-13.217	-13.217	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	-3.304	-3.304	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	-3.304	-3.304	0	%100
27	MP4C	X	0	0	0	%100
28	MP4C	Z	-7.533	-7.533	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	-7.533	-7.533	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	-7.533	-7.533	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-7.533	-7.533	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	-1.883	-1.883	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	-7.533	-7.533	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	-7.533	-7.533	0	%100
41	MP2B	X	0	0	0	%100
42	MP2B	Z	-7.533	-7.533	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-7.533	-7.533	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	-1.883	-1.883	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	-2.481	-2.481	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	-9.924	-9.924	0	%100
51	DC	X	0	0	0	%100
52	DC	Z	-6.865	-6.865	0	%100
53	M95B	X	0	0	0	%100
54	M95B	Z	-7.226	-7.226	0	%100
55	M96C	X	0	0	0	%100
56	M96C	Z	-13.11	-13.11	0	%100
57	M97	X	0	0	0	%100
58	M97	Z	-13.11	-13.11	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	M4	X	1.745	1.745	0	%100
2	M4	Z	-3.023	-3.023	0	%100
3	M14	X	1.745	1.745	0	%100
4	M14	Z	-3.023	-3.023	0	%100
5	M27	X	6.981	6.981	0	%100
6	M27	Z	-12.092	-12.092	0	%100
7	MP4A	X	3.767	3.767	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,%]
8	MP4A	Z	-6.524	-6.524	0	%100
9	MP3A	X	3.767	3.767	0	%100
10	MP3A	Z	-6.524	-6.524	0	%100
11	MP2A	X	3.767	3.767	0	%100
12	MP2A	Z	-6.524	-6.524	0	%100
13	MP1A	X	3.767	3.767	0	%100
14	MP1A	Z	-6.524	-6.524	0	%100
15	M71	X	2.825	2.825	0	%100
16	M71	Z	-4.893	-4.893	0	%100
17	M80	X	3.722	3.722	0	%100
18	M80	Z	-6.446	-6.446	0	%100
19	M93	X	3.433	3.433	0	%100
20	M93	Z	-5.946	-5.946	0	%100
21	M94A	X	4.956	4.956	0	%100
22	M94A	Z	-8.584	-8.584	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	4.956	4.956	0	%100
26	M96A	Z	-8.584	-8.584	0	%100
27	MP4C	X	3.767	3.767	0	%100
28	MP4C	Z	-6.524	-6.524	0	%100
29	MP3C	X	3.767	3.767	0	%100
30	MP3C	Z	-6.524	-6.524	0	%100
31	MP2C	X	3.767	3.767	0	%100
32	MP2C	Z	-6.524	-6.524	0	%100
33	MP1C	X	3.767	3.767	0	%100
34	MP1C	Z	-6.524	-6.524	0	%100
35	M72	X	2.825	2.825	0	%100
36	M72	Z	-4.893	-4.893	0	%100
37	MP4B	X	3.767	3.767	0	%100
38	MP4B	Z	-6.524	-6.524	0	%100
39	MP3B	X	3.767	3.767	0	%100
40	MP3B	Z	-6.524	-6.524	0	%100
41	MP2B	X	3.767	3.767	0	%100
42	MP2B	Z	-6.524	-6.524	0	%100
43	MP1B	X	3.767	3.767	0	%100
44	MP1B	Z	-6.524	-6.524	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	3.722	3.722	0	%100
50	M94B	Z	-6.446	-6.446	0	%100
51	DC	X	3.433	3.433	0	%100
52	DC	Z	-5.946	-5.946	0	%100
53	M95B	X	4.594	4.594	0	%100
54	M95B	Z	-7.956	-7.956	0	%100
55	M96C	X	4.594	4.594	0	%100
56	M96C	Z	-7.956	-7.956	0	%100
57	M97	X	7.536	7.536	0	%100
58	M97	Z	-13.052	-13.052	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	M4	X	9.069	9.069	0	%100
2	M4	Z	-5.236	-5.236	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,%]
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	9.069	9.069	0	%100
6	M27	Z	-5.236	-5.236	0	%100
7	MP4A	X	6.524	6.524	0	%100
8	MP4A	Z	-3.767	-3.767	0	%100
9	MP3A	X	6.524	6.524	0	%100
10	MP3A	Z	-3.767	-3.767	0	%100
11	MP2A	X	6.524	6.524	0	%100
12	MP2A	Z	-3.767	-3.767	0	%100
13	MP1A	X	6.524	6.524	0	%100
14	MP1A	Z	-3.767	-3.767	0	%100
15	M71	X	1.631	1.631	0	%100
16	M71	Z	-.942	-.942	0	%100
17	M80	X	8.595	8.595	0	%100
18	M80	Z	-4.962	-4.962	0	%100
19	M93	X	5.946	5.946	0	%100
20	M93	Z	-3.433	-3.433	0	%100
21	M94A	X	2.861	2.861	0	%100
22	M94A	Z	-1.652	-1.652	0	%100
23	M95A	X	2.861	2.861	0	%100
24	M95A	Z	-1.652	-1.652	0	%100
25	M96A	X	11.446	11.446	0	%100
26	M96A	Z	-6.608	-6.608	0	%100
27	MP4C	X	6.524	6.524	0	%100
28	MP4C	Z	-3.767	-3.767	0	%100
29	MP3C	X	6.524	6.524	0	%100
30	MP3C	Z	-3.767	-3.767	0	%100
31	MP2C	X	6.524	6.524	0	%100
32	MP2C	Z	-3.767	-3.767	0	%100
33	MP1C	X	6.524	6.524	0	%100
34	MP1C	Z	-3.767	-3.767	0	%100
35	M72	X	6.524	6.524	0	%100
36	M72	Z	-3.767	-3.767	0	%100
37	MP4B	X	6.524	6.524	0	%100
38	MP4B	Z	-3.767	-3.767	0	%100
39	MP3B	X	6.524	6.524	0	%100
40	MP3B	Z	-3.767	-3.767	0	%100
41	MP2B	X	6.524	6.524	0	%100
42	MP2B	Z	-3.767	-3.767	0	%100
43	MP1B	X	6.524	6.524	0	%100
44	MP1B	Z	-3.767	-3.767	0	%100
45	M87A	X	1.631	1.631	0	%100
46	M87A	Z	-.942	-.942	0	%100
47	M93C	X	2.149	2.149	0	%100
48	M93C	Z	-1.241	-1.241	0	%100
49	M94B	X	2.149	2.149	0	%100
50	M94B	Z	-1.241	-1.241	0	%100
51	DC	X	5.946	5.946	0	%100
52	DC	Z	-3.433	-3.433	0	%100
53	M95B	X	11.354	11.354	0	%100
54	M95B	Z	-6.555	-6.555	0	%100
55	M96C	X	6.258	6.258	0	%100
56	M96C	Z	-3.613	-3.613	0	%100
57	M97	X	11.354	11.354	0	%100
58	M97	Z	-6.555	-6.555	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	M4	X	13.963	13.963	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	3.491	3.491	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	3.491	3.491	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	7.533	7.533	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	7.533	7.533	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	7.533	7.533	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	7.533	7.533	0	%100
14	MP1A	Z	0	0	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	0	0	0	%100
17	M80	X	7.443	7.443	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	6.865	6.865	0	%100
20	M93	Z	0	0	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	0	0	0	%100
23	M95A	X	9.912	9.912	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	9.912	9.912	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	7.533	7.533	0	%100
28	MP4C	Z	0	0	0	%100
29	MP3C	X	7.533	7.533	0	%100
30	MP3C	Z	0	0	0	%100
31	MP2C	X	7.533	7.533	0	%100
32	MP2C	Z	0	0	0	%100
33	MP1C	X	7.533	7.533	0	%100
34	MP1C	Z	0	0	0	%100
35	M72	X	5.65	5.65	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	7.533	7.533	0	%100
38	MP4B	Z	0	0	0	%100
39	MP3B	X	7.533	7.533	0	%100
40	MP3B	Z	0	0	0	%100
41	MP2B	X	7.533	7.533	0	%100
42	MP2B	Z	0	0	0	%100
43	MP1B	X	7.533	7.533	0	%100
44	MP1B	Z	0	0	0	%100
45	M87A	X	5.65	5.65	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	7.443	7.443	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	0	0	0	%100
51	DC	X	6.865	6.865	0	%100
52	DC	Z	0	0	0	%100
53	M95B	X	15.071	15.071	0	%100
54	M95B	Z	0	0	0	%100
55	M96C	X	9.187	9.187	0	%100
56	M96C	Z	0	0	0	%100
57	M97	X	9.187	9.187	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,%]
58	M97	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	M4	X	9.069	9.069	0	%100
2	M4	Z	5.236	5.236	0	%100
3	M14	X	9.069	9.069	0	%100
4	M14	Z	5.236	5.236	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	6.524	6.524	0	%100
8	MP4A	Z	3.767	3.767	0	%100
9	MP3A	X	6.524	6.524	0	%100
10	MP3A	Z	3.767	3.767	0	%100
11	MP2A	X	6.524	6.524	0	%100
12	MP2A	Z	3.767	3.767	0	%100
13	MP1A	X	6.524	6.524	0	%100
14	MP1A	Z	3.767	3.767	0	%100
15	M71	X	1.631	1.631	0	%100
16	M71	Z	.942	.942	0	%100
17	M80	X	2.149	2.149	0	%100
18	M80	Z	1.241	1.241	0	%100
19	M93	X	5.946	5.946	0	%100
20	M93	Z	3.433	3.433	0	%100
21	M94A	X	2.861	2.861	0	%100
22	M94A	Z	1.652	1.652	0	%100
23	M95A	X	11.446	11.446	0	%100
24	M95A	Z	6.608	6.608	0	%100
25	M96A	X	2.861	2.861	0	%100
26	M96A	Z	1.652	1.652	0	%100
27	MP4C	X	6.524	6.524	0	%100
28	MP4C	Z	3.767	3.767	0	%100
29	MP3C	X	6.524	6.524	0	%100
30	MP3C	Z	3.767	3.767	0	%100
31	MP2C	X	6.524	6.524	0	%100
32	MP2C	Z	3.767	3.767	0	%100
33	MP1C	X	6.524	6.524	0	%100
34	MP1C	Z	3.767	3.767	0	%100
35	M72	X	1.631	1.631	0	%100
36	M72	Z	.942	.942	0	%100
37	MP4B	X	6.524	6.524	0	%100
38	MP4B	Z	3.767	3.767	0	%100
39	MP3B	X	6.524	6.524	0	%100
40	MP3B	Z	3.767	3.767	0	%100
41	MP2B	X	6.524	6.524	0	%100
42	MP2B	Z	3.767	3.767	0	%100
43	MP1B	X	6.524	6.524	0	%100
44	MP1B	Z	3.767	3.767	0	%100
45	M87A	X	6.524	6.524	0	%100
46	M87A	Z	3.767	3.767	0	%100
47	M93C	X	8.595	8.595	0	%100
48	M93C	Z	4.962	4.962	0	%100
49	M94B	X	2.149	2.149	0	%100
50	M94B	Z	1.241	1.241	0	%100
51	DC	X	5.946	5.946	0	%100
52	DC	Z	3.433	3.433	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,%]
53	M95B	X	11.354	11.354	0	%100
54	M95B	Z	6.555	6.555	0	%100
55	M96C	X	11.354	11.354	0	%100
56	M96C	Z	6.555	6.555	0	%100
57	M97	X	6.258	6.258	0	%100
58	M97	Z	3.613	3.613	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	M4	X	1.745	1.745	0	%100
2	M4	Z	3.023	3.023	0	%100
3	M14	X	6.981	6.981	0	%100
4	M14	Z	12.092	12.092	0	%100
5	M27	X	1.745	1.745	0	%100
6	M27	Z	3.023	3.023	0	%100
7	MP4A	X	3.767	3.767	0	%100
8	MP4A	Z	6.524	6.524	0	%100
9	MP3A	X	3.767	3.767	0	%100
10	MP3A	Z	6.524	6.524	0	%100
11	MP2A	X	3.767	3.767	0	%100
12	MP2A	Z	6.524	6.524	0	%100
13	MP1A	X	3.767	3.767	0	%100
14	MP1A	Z	6.524	6.524	0	%100
15	M71	X	2.825	2.825	0	%100
16	M71	Z	4.893	4.893	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	3.433	3.433	0	%100
20	M93	Z	5.946	5.946	0	%100
21	M94A	X	4.956	4.956	0	%100
22	M94A	Z	8.584	8.584	0	%100
23	M95A	X	4.956	4.956	0	%100
24	M95A	Z	8.584	8.584	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	3.767	3.767	0	%100
28	MP4C	Z	6.524	6.524	0	%100
29	MP3C	X	3.767	3.767	0	%100
30	MP3C	Z	6.524	6.524	0	%100
31	MP2C	X	3.767	3.767	0	%100
32	MP2C	Z	6.524	6.524	0	%100
33	MP1C	X	3.767	3.767	0	%100
34	MP1C	Z	6.524	6.524	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	3.767	3.767	0	%100
38	MP4B	Z	6.524	6.524	0	%100
39	MP3B	X	3.767	3.767	0	%100
40	MP3B	Z	6.524	6.524	0	%100
41	MP2B	X	3.767	3.767	0	%100
42	MP2B	Z	6.524	6.524	0	%100
43	MP1B	X	3.767	3.767	0	%100
44	MP1B	Z	6.524	6.524	0	%100
45	M87A	X	2.825	2.825	0	%100
46	M87A	Z	4.893	4.893	0	%100
47	M93C	X	3.722	3.722	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,%]
48	M93C	Z	6.446	6.446	0	%100
49	M94B	X	3.722	3.722	0	%100
50	M94B	Z	6.446	6.446	0	%100
51	DC	X	3.433	3.433	0	%100
52	DC	Z	5.946	5.946	0	%100
53	M95B	X	4.594	4.594	0	%100
54	M95B	Z	7.956	7.956	0	%100
55	M96C	X	7.536	7.536	0	%100
56	M96C	Z	13.052	13.052	0	%100
57	M97	X	4.594	4.594	0	%100
58	M97	Z	7.956	7.956	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	10.472	10.472	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	10.472	10.472	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	7.533	7.533	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	7.533	7.533	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	7.533	7.533	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	7.533	7.533	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	7.533	7.533	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	2.481	2.481	0	%100
19	M93	X	0	0	0	%100
20	M93	Z	6.865	6.865	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	13.217	13.217	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	3.304	3.304	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	3.304	3.304	0	%100
27	MP4C	X	0	0	0	%100
28	MP4C	Z	7.533	7.533	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	7.533	7.533	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	7.533	7.533	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	7.533	7.533	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	1.883	1.883	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	7.533	7.533	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	7.533	7.533	0	%100
41	MP2B	X	0	0	0	%100
42	MP2B	Z	7.533	7.533	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,%]
43	MP1B	X	0	0	0	%100
44	MP1B	Z	7.533	7.533	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	1.883	1.883	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	2.481	2.481	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	9.924	9.924	0	%100
51	DC	X	0	0	0	%100
52	DC	Z	6.865	6.865	0	%100
53	M95B	X	0	0	0	%100
54	M95B	Z	7.226	7.226	0	%100
55	M96C	X	0	0	0	%100
56	M96C	Z	13.11	13.11	0	%100
57	M97	X	0	0	0	%100
58	M97	Z	13.11	13.11	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	M4	X	-1.745	-1.745	0	%100
2	M4	Z	3.023	3.023	0	%100
3	M14	X	-1.745	-1.745	0	%100
4	M14	Z	3.023	3.023	0	%100
5	M27	X	-6.981	-6.981	0	%100
6	M27	Z	12.092	12.092	0	%100
7	MP4A	X	-3.767	-3.767	0	%100
8	MP4A	Z	6.524	6.524	0	%100
9	MP3A	X	-3.767	-3.767	0	%100
10	MP3A	Z	6.524	6.524	0	%100
11	MP2A	X	-3.767	-3.767	0	%100
12	MP2A	Z	6.524	6.524	0	%100
13	MP1A	X	-3.767	-3.767	0	%100
14	MP1A	Z	6.524	6.524	0	%100
15	M71	X	-2.825	-2.825	0	%100
16	M71	Z	4.893	4.893	0	%100
17	M80	X	-3.722	-3.722	0	%100
18	M80	Z	6.446	6.446	0	%100
19	M93	X	-3.433	-3.433	0	%100
20	M93	Z	5.946	5.946	0	%100
21	M94A	X	-4.956	-4.956	0	%100
22	M94A	Z	8.584	8.584	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	-4.956	-4.956	0	%100
26	M96A	Z	8.584	8.584	0	%100
27	MP4C	X	-3.767	-3.767	0	%100
28	MP4C	Z	6.524	6.524	0	%100
29	MP3C	X	-3.767	-3.767	0	%100
30	MP3C	Z	6.524	6.524	0	%100
31	MP2C	X	-3.767	-3.767	0	%100
32	MP2C	Z	6.524	6.524	0	%100
33	MP1C	X	-3.767	-3.767	0	%100
34	MP1C	Z	6.524	6.524	0	%100
35	M72	X	-2.825	-2.825	0	%100
36	M72	Z	4.893	4.893	0	%100
37	MP4B	X	-3.767	-3.767	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,%]
38	MP4B	Z	6.524	6.524	0	%100
39	MP3B	X	-3.767	-3.767	0	%100
40	MP3B	Z	6.524	6.524	0	%100
41	MP2B	X	-3.767	-3.767	0	%100
42	MP2B	Z	6.524	6.524	0	%100
43	MP1B	X	-3.767	-3.767	0	%100
44	MP1B	Z	6.524	6.524	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	-3.722	-3.722	0	%100
50	M94B	Z	6.446	6.446	0	%100
51	DC	X	-3.433	-3.433	0	%100
52	DC	Z	5.946	5.946	0	%100
53	M95B	X	-4.594	-4.594	0	%100
54	M95B	Z	7.956	7.956	0	%100
55	M96C	X	-4.594	-4.594	0	%100
56	M96C	Z	7.956	7.956	0	%100
57	M97	X	-7.536	-7.536	0	%100
58	M97	Z	13.052	13.052	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	M4	X	-9.069	-9.069	0	%100
2	M4	Z	5.236	5.236	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-9.069	-9.069	0	%100
6	M27	Z	5.236	5.236	0	%100
7	MP4A	X	-6.524	-6.524	0	%100
8	MP4A	Z	3.767	3.767	0	%100
9	MP3A	X	-6.524	-6.524	0	%100
10	MP3A	Z	3.767	3.767	0	%100
11	MP2A	X	-6.524	-6.524	0	%100
12	MP2A	Z	3.767	3.767	0	%100
13	MP1A	X	-6.524	-6.524	0	%100
14	MP1A	Z	3.767	3.767	0	%100
15	M71	X	-1.631	-1.631	0	%100
16	M71	Z	.942	.942	0	%100
17	M80	X	-8.595	-8.595	0	%100
18	M80	Z	4.962	4.962	0	%100
19	M93	X	-5.946	-5.946	0	%100
20	M93	Z	3.433	3.433	0	%100
21	M94A	X	-2.861	-2.861	0	%100
22	M94A	Z	1.652	1.652	0	%100
23	M95A	X	-2.861	-2.861	0	%100
24	M95A	Z	1.652	1.652	0	%100
25	M96A	X	-11.446	-11.446	0	%100
26	M96A	Z	6.608	6.608	0	%100
27	MP4C	X	-6.524	-6.524	0	%100
28	MP4C	Z	3.767	3.767	0	%100
29	MP3C	X	-6.524	-6.524	0	%100
30	MP3C	Z	3.767	3.767	0	%100
31	MP2C	X	-6.524	-6.524	0	%100
32	MP2C	Z	3.767	3.767	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,%]
33	MP1C	X	-6.524	-6.524	0	%100
34	MP1C	Z	3.767	3.767	0	%100
35	M72	X	-6.524	-6.524	0	%100
36	M72	Z	3.767	3.767	0	%100
37	MP4B	X	-6.524	-6.524	0	%100
38	MP4B	Z	3.767	3.767	0	%100
39	MP3B	X	-6.524	-6.524	0	%100
40	MP3B	Z	3.767	3.767	0	%100
41	MP2B	X	-6.524	-6.524	0	%100
42	MP2B	Z	3.767	3.767	0	%100
43	MP1B	X	-6.524	-6.524	0	%100
44	MP1B	Z	3.767	3.767	0	%100
45	M87A	X	-1.631	-1.631	0	%100
46	M87A	Z	.942	.942	0	%100
47	M93C	X	-2.149	-2.149	0	%100
48	M93C	Z	1.241	1.241	0	%100
49	M94B	X	-2.149	-2.149	0	%100
50	M94B	Z	1.241	1.241	0	%100
51	DC	X	-5.946	-5.946	0	%100
52	DC	Z	3.433	3.433	0	%100
53	M95B	X	-11.354	-11.354	0	%100
54	M95B	Z	6.555	6.555	0	%100
55	M96C	X	-6.258	-6.258	0	%100
56	M96C	Z	3.613	3.613	0	%100
57	M97	X	-11.354	-11.354	0	%100
58	M97	Z	6.555	6.555	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	M4	X	-13.963	-13.963	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-3.491	-3.491	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-3.491	-3.491	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	-7.533	-7.533	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-7.533	-7.533	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	-7.533	-7.533	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-7.533	-7.533	0	%100
14	MP1A	Z	0	0	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	0	0	0	%100
17	M80	X	-7.443	-7.443	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	-6.865	-6.865	0	%100
20	M93	Z	0	0	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	0	0	0	%100
23	M95A	X	-9.912	-9.912	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	-9.912	-9.912	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	-7.533	-7.533	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,%]
28	MP4C	Z	0	0	0	%100
29	MP3C	X	-7.533	-7.533	0	%100
30	MP3C	Z	0	0	0	%100
31	MP2C	X	-7.533	-7.533	0	%100
32	MP2C	Z	0	0	0	%100
33	MP1C	X	-7.533	-7.533	0	%100
34	MP1C	Z	0	0	0	%100
35	M72	X	-5.65	-5.65	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	-7.533	-7.533	0	%100
38	MP4B	Z	0	0	0	%100
39	MP3B	X	-7.533	-7.533	0	%100
40	MP3B	Z	0	0	0	%100
41	MP2B	X	-7.533	-7.533	0	%100
42	MP2B	Z	0	0	0	%100
43	MP1B	X	-7.533	-7.533	0	%100
44	MP1B	Z	0	0	0	%100
45	M87A	X	-5.65	-5.65	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	-7.443	-7.443	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	0	0	0	%100
51	DC	X	-6.865	-6.865	0	%100
52	DC	Z	0	0	0	%100
53	M95B	X	-15.071	-15.071	0	%100
54	M95B	Z	0	0	0	%100
55	M96C	X	-9.187	-9.187	0	%100
56	M96C	Z	0	0	0	%100
57	M97	X	-9.187	-9.187	0	%100
58	M97	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	M4	X	-9.069	-9.069	0	%100
2	M4	Z	-5.236	-5.236	0	%100
3	M14	X	-9.069	-9.069	0	%100
4	M14	Z	-5.236	-5.236	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	-6.524	-6.524	0	%100
8	MP4A	Z	-3.767	-3.767	0	%100
9	MP3A	X	-6.524	-6.524	0	%100
10	MP3A	Z	-3.767	-3.767	0	%100
11	MP2A	X	-6.524	-6.524	0	%100
12	MP2A	Z	-3.767	-3.767	0	%100
13	MP1A	X	-6.524	-6.524	0	%100
14	MP1A	Z	-3.767	-3.767	0	%100
15	M71	X	-1.631	-1.631	0	%100
16	M71	Z	-.942	-.942	0	%100
17	M80	X	-2.149	-2.149	0	%100
18	M80	Z	-1.241	-1.241	0	%100
19	M93	X	-5.946	-5.946	0	%100
20	M93	Z	-3.433	-3.433	0	%100
21	M94A	X	-2.861	-2.861	0	%100
22	M94A	Z	-1.652	-1.652	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,%]
23	M95A	X	-11.446	-11.446	0	%100
24	M95A	Z	-6.608	-6.608	0	%100
25	M96A	X	-2.861	-2.861	0	%100
26	M96A	Z	-1.652	-1.652	0	%100
27	MP4C	X	-6.524	-6.524	0	%100
28	MP4C	Z	-3.767	-3.767	0	%100
29	MP3C	X	-6.524	-6.524	0	%100
30	MP3C	Z	-3.767	-3.767	0	%100
31	MP2C	X	-6.524	-6.524	0	%100
32	MP2C	Z	-3.767	-3.767	0	%100
33	MP1C	X	-6.524	-6.524	0	%100
34	MP1C	Z	-3.767	-3.767	0	%100
35	M72	X	-1.631	-1.631	0	%100
36	M72	Z	-.942	-.942	0	%100
37	MP4B	X	-6.524	-6.524	0	%100
38	MP4B	Z	-3.767	-3.767	0	%100
39	MP3B	X	-6.524	-6.524	0	%100
40	MP3B	Z	-3.767	-3.767	0	%100
41	MP2B	X	-6.524	-6.524	0	%100
42	MP2B	Z	-3.767	-3.767	0	%100
43	MP1B	X	-6.524	-6.524	0	%100
44	MP1B	Z	-3.767	-3.767	0	%100
45	M87A	X	-6.524	-6.524	0	%100
46	M87A	Z	-3.767	-3.767	0	%100
47	M93C	X	-8.595	-8.595	0	%100
48	M93C	Z	-4.962	-4.962	0	%100
49	M94B	X	-2.149	-2.149	0	%100
50	M94B	Z	-1.241	-1.241	0	%100
51	DC	X	-5.946	-5.946	0	%100
52	DC	Z	-3.433	-3.433	0	%100
53	M95B	X	-11.354	-11.354	0	%100
54	M95B	Z	-6.555	-6.555	0	%100
55	M96C	X	-11.354	-11.354	0	%100
56	M96C	Z	-6.555	-6.555	0	%100
57	M97	X	-6.258	-6.258	0	%100
58	M97	Z	-3.613	-3.613	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	M4	X	-1.745	-1.745	0	%100
2	M4	Z	-3.023	-3.023	0	%100
3	M14	X	-6.981	-6.981	0	%100
4	M14	Z	-12.092	-12.092	0	%100
5	M27	X	-1.745	-1.745	0	%100
6	M27	Z	-3.023	-3.023	0	%100
7	MP4A	X	-3.767	-3.767	0	%100
8	MP4A	Z	-6.524	-6.524	0	%100
9	MP3A	X	-3.767	-3.767	0	%100
10	MP3A	Z	-6.524	-6.524	0	%100
11	MP2A	X	-3.767	-3.767	0	%100
12	MP2A	Z	-6.524	-6.524	0	%100
13	MP1A	X	-3.767	-3.767	0	%100
14	MP1A	Z	-6.524	-6.524	0	%100
15	M71	X	-2.825	-2.825	0	%100
16	M71	Z	-4.893	-4.893	0	%100
17	M80	X	0	0	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,%]
18	M80	Z	0	0	0	%100
19	M93	X	-3.433	-3.433	0	%100
20	M93	Z	-5.946	-5.946	0	%100
21	M94A	X	-4.956	-4.956	0	%100
22	M94A	Z	-8.584	-8.584	0	%100
23	M95A	X	-4.956	-4.956	0	%100
24	M95A	Z	-8.584	-8.584	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	-3.767	-3.767	0	%100
28	MP4C	Z	-6.524	-6.524	0	%100
29	MP3C	X	-3.767	-3.767	0	%100
30	MP3C	Z	-6.524	-6.524	0	%100
31	MP2C	X	-3.767	-3.767	0	%100
32	MP2C	Z	-6.524	-6.524	0	%100
33	MP1C	X	-3.767	-3.767	0	%100
34	MP1C	Z	-6.524	-6.524	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	-3.767	-3.767	0	%100
38	MP4B	Z	-6.524	-6.524	0	%100
39	MP3B	X	-3.767	-3.767	0	%100
40	MP3B	Z	-6.524	-6.524	0	%100
41	MP2B	X	-3.767	-3.767	0	%100
42	MP2B	Z	-6.524	-6.524	0	%100
43	MP1B	X	-3.767	-3.767	0	%100
44	MP1B	Z	-6.524	-6.524	0	%100
45	M87A	X	-2.825	-2.825	0	%100
46	M87A	Z	-4.893	-4.893	0	%100
47	M93C	X	-3.722	-3.722	0	%100
48	M93C	Z	-6.446	-6.446	0	%100
49	M94B	X	-3.722	-3.722	0	%100
50	M94B	Z	-6.446	-6.446	0	%100
51	DC	X	-3.433	-3.433	0	%100
52	DC	Z	-5.946	-5.946	0	%100
53	M95B	X	-4.594	-4.594	0	%100
54	M95B	Z	-7.956	-7.956	0	%100
55	M96C	X	-7.536	-7.536	0	%100
56	M96C	Z	-13.052	-13.052	0	%100
57	M97	X	-4.594	-4.594	0	%100
58	M97	Z	-7.956	-7.956	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-2.966	-2.966	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-2.966	-2.966	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-2.761	-2.761	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-2.761	-2.761	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-2.761	-2.761	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,%]
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-2.761	-2.761	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	-2.761	-2.761	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-.712	-.712	0	%100
19	M93	X	0	0	0	%100
20	M93	Z	-2.53	-2.53	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	-3.816	-3.816	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	-.954	-.954	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	-.954	-.954	0	%100
27	MP4C	X	0	0	0	%100
28	MP4C	Z	-2.761	-2.761	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	-2.761	-2.761	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	-2.761	-2.761	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-2.761	-2.761	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	-.69	-.69	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	-2.761	-2.761	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	-2.761	-2.761	0	%100
41	MP2B	X	0	0	0	%100
42	MP2B	Z	-2.761	-2.761	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-2.761	-2.761	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	-.69	-.69	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	-.712	-.712	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	-2.849	-2.849	0	%100
51	DC	X	0	0	0	%100
52	DC	Z	-2.53	-2.53	0	%100
53	M95B	X	0	0	0	%100
54	M95B	Z	-1.747	-1.747	0	%100
55	M96C	X	0	0	0	%100
56	M96C	Z	-3.557	-3.557	0	%100
57	M97	X	0	0	0	%100
58	M97	Z	-3.557	-3.557	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	M4	X	.494	.494	0	%100
2	M4	Z	-.856	-.856	0	%100
3	M14	X	.494	.494	0	%100
4	M14	Z	-.856	-.856	0	%100
5	M27	X	1.978	1.978	0	%100
6	M27	Z	-3.425	-3.425	0	%100
7	MP4A	X	1.38	1.38	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,%]
8	MP4A	Z	-2.391	-2.391	0	%100
9	MP3A	X	1.38	1.38	0	%100
10	MP3A	Z	-2.391	-2.391	0	%100
11	MP2A	X	1.38	1.38	0	%100
12	MP2A	Z	-2.391	-2.391	0	%100
13	MP1A	X	1.38	1.38	0	%100
14	MP1A	Z	-2.391	-2.391	0	%100
15	M71	X	1.035	1.035	0	%100
16	M71	Z	-1.793	-1.793	0	%100
17	M80	X	1.068	1.068	0	%100
18	M80	Z	-1.85	-1.85	0	%100
19	M93	X	1.265	1.265	0	%100
20	M93	Z	-2.191	-2.191	0	%100
21	M94A	X	1.431	1.431	0	%100
22	M94A	Z	-2.479	-2.479	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	1.431	1.431	0	%100
26	M96A	Z	-2.479	-2.479	0	%100
27	MP4C	X	1.38	1.38	0	%100
28	MP4C	Z	-2.391	-2.391	0	%100
29	MP3C	X	1.38	1.38	0	%100
30	MP3C	Z	-2.391	-2.391	0	%100
31	MP2C	X	1.38	1.38	0	%100
32	MP2C	Z	-2.391	-2.391	0	%100
33	MP1C	X	1.38	1.38	0	%100
34	MP1C	Z	-2.391	-2.391	0	%100
35	M72	X	1.035	1.035	0	%100
36	M72	Z	-1.793	-1.793	0	%100
37	MP4B	X	1.38	1.38	0	%100
38	MP4B	Z	-2.391	-2.391	0	%100
39	MP3B	X	1.38	1.38	0	%100
40	MP3B	Z	-2.391	-2.391	0	%100
41	MP2B	X	1.38	1.38	0	%100
42	MP2B	Z	-2.391	-2.391	0	%100
43	MP1B	X	1.38	1.38	0	%100
44	MP1B	Z	-2.391	-2.391	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	1.068	1.068	0	%100
50	M94B	Z	-1.85	-1.85	0	%100
51	DC	X	1.265	1.265	0	%100
52	DC	Z	-2.191	-2.191	0	%100
53	M95B	X	1.175	1.175	0	%100
54	M95B	Z	-2.035	-2.035	0	%100
55	M96C	X	1.175	1.175	0	%100
56	M96C	Z	-2.035	-2.035	0	%100
57	M97	X	2.081	2.081	0	%100
58	M97	Z	-3.604	-3.604	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	M4	X	2.569	2.569	0	%100
2	M4	Z	-1.483	-1.483	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,%]
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	2.569	2.569	0	%100
6	M27	Z	-1.483	-1.483	0	%100
7	MP4A	X	2.391	2.391	0	%100
8	MP4A	Z	-1.38	-1.38	0	%100
9	MP3A	X	2.391	2.391	0	%100
10	MP3A	Z	-1.38	-1.38	0	%100
11	MP2A	X	2.391	2.391	0	%100
12	MP2A	Z	-1.38	-1.38	0	%100
13	MP1A	X	2.391	2.391	0	%100
14	MP1A	Z	-1.38	-1.38	0	%100
15	M71	X	.598	.598	0	%100
16	M71	Z	-.345	-.345	0	%100
17	M80	X	2.467	2.467	0	%100
18	M80	Z	-1.425	-1.425	0	%100
19	M93	X	2.191	2.191	0	%100
20	M93	Z	-1.265	-1.265	0	%100
21	M94A	X	.826	.826	0	%100
22	M94A	Z	-.477	-.477	0	%100
23	M95A	X	.826	.826	0	%100
24	M95A	Z	-.477	-.477	0	%100
25	M96A	X	3.305	3.305	0	%100
26	M96A	Z	-1.908	-1.908	0	%100
27	MP4C	X	2.391	2.391	0	%100
28	MP4C	Z	-1.38	-1.38	0	%100
29	MP3C	X	2.391	2.391	0	%100
30	MP3C	Z	-1.38	-1.38	0	%100
31	MP2C	X	2.391	2.391	0	%100
32	MP2C	Z	-1.38	-1.38	0	%100
33	MP1C	X	2.391	2.391	0	%100
34	MP1C	Z	-1.38	-1.38	0	%100
35	M72	X	2.391	2.391	0	%100
36	M72	Z	-1.38	-1.38	0	%100
37	MP4B	X	2.391	2.391	0	%100
38	MP4B	Z	-1.38	-1.38	0	%100
39	MP3B	X	2.391	2.391	0	%100
40	MP3B	Z	-1.38	-1.38	0	%100
41	MP2B	X	2.391	2.391	0	%100
42	MP2B	Z	-1.38	-1.38	0	%100
43	MP1B	X	2.391	2.391	0	%100
44	MP1B	Z	-1.38	-1.38	0	%100
45	M87A	X	.598	.598	0	%100
46	M87A	Z	-.345	-.345	0	%100
47	M93C	X	.617	.617	0	%100
48	M93C	Z	-.356	-.356	0	%100
49	M94B	X	.617	.617	0	%100
50	M94B	Z	-.356	-.356	0	%100
51	DC	X	2.191	2.191	0	%100
52	DC	Z	-1.265	-1.265	0	%100
53	M95B	X	3.081	3.081	0	%100
54	M95B	Z	-1.779	-1.779	0	%100
55	M96C	X	1.513	1.513	0	%100
56	M96C	Z	-.873	-.873	0	%100
57	M97	X	3.081	3.081	0	%100
58	M97	Z	-1.779	-1.779	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	M4	X	3.955	3.955	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	.989	.989	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	.989	.989	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	2.761	2.761	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	2.761	2.761	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	2.761	2.761	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	2.761	2.761	0	%100
14	MP1A	Z	0	0	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	0	0	0	%100
17	M80	X	2.137	2.137	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	2.53	2.53	0	%100
20	M93	Z	0	0	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	0	0	0	%100
23	M95A	X	2.862	2.862	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	2.862	2.862	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	2.761	2.761	0	%100
28	MP4C	Z	0	0	0	%100
29	MP3C	X	2.761	2.761	0	%100
30	MP3C	Z	0	0	0	%100
31	MP2C	X	2.761	2.761	0	%100
32	MP2C	Z	0	0	0	%100
33	MP1C	X	2.761	2.761	0	%100
34	MP1C	Z	0	0	0	%100
35	M72	X	2.07	2.07	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	2.761	2.761	0	%100
38	MP4B	Z	0	0	0	%100
39	MP3B	X	2.761	2.761	0	%100
40	MP3B	Z	0	0	0	%100
41	MP2B	X	2.761	2.761	0	%100
42	MP2B	Z	0	0	0	%100
43	MP1B	X	2.761	2.761	0	%100
44	MP1B	Z	0	0	0	%100
45	M87A	X	2.07	2.07	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	2.137	2.137	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	0	0	0	%100
51	DC	X	2.53	2.53	0	%100
52	DC	Z	0	0	0	%100
53	M95B	X	4.161	4.161	0	%100
54	M95B	Z	0	0	0	%100
55	M96C	X	2.35	2.35	0	%100
56	M96C	Z	0	0	0	%100
57	M97	X	2.35	2.35	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	M97	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	M4	X	2.569	2.569	0	%100
2	M4	Z	1.483	1.483	0	%100
3	M14	X	2.569	2.569	0	%100
4	M14	Z	1.483	1.483	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	2.391	2.391	0	%100
8	MP4A	Z	1.38	1.38	0	%100
9	MP3A	X	2.391	2.391	0	%100
10	MP3A	Z	1.38	1.38	0	%100
11	MP2A	X	2.391	2.391	0	%100
12	MP2A	Z	1.38	1.38	0	%100
13	MP1A	X	2.391	2.391	0	%100
14	MP1A	Z	1.38	1.38	0	%100
15	M71	X	.598	.598	0	%100
16	M71	Z	.345	.345	0	%100
17	M80	X	.617	.617	0	%100
18	M80	Z	.356	.356	0	%100
19	M93	X	2.191	2.191	0	%100
20	M93	Z	1.265	1.265	0	%100
21	M94A	X	.826	.826	0	%100
22	M94A	Z	.477	.477	0	%100
23	M95A	X	3.305	3.305	0	%100
24	M95A	Z	1.908	1.908	0	%100
25	M96A	X	.826	.826	0	%100
26	M96A	Z	.477	.477	0	%100
27	MP4C	X	2.391	2.391	0	%100
28	MP4C	Z	1.38	1.38	0	%100
29	MP3C	X	2.391	2.391	0	%100
30	MP3C	Z	1.38	1.38	0	%100
31	MP2C	X	2.391	2.391	0	%100
32	MP2C	Z	1.38	1.38	0	%100
33	MP1C	X	2.391	2.391	0	%100
34	MP1C	Z	1.38	1.38	0	%100
35	M72	X	.598	.598	0	%100
36	M72	Z	.345	.345	0	%100
37	MP4B	X	2.391	2.391	0	%100
38	MP4B	Z	1.38	1.38	0	%100
39	MP3B	X	2.391	2.391	0	%100
40	MP3B	Z	1.38	1.38	0	%100
41	MP2B	X	2.391	2.391	0	%100
42	MP2B	Z	1.38	1.38	0	%100
43	MP1B	X	2.391	2.391	0	%100
44	MP1B	Z	1.38	1.38	0	%100
45	M87A	X	2.391	2.391	0	%100
46	M87A	Z	1.38	1.38	0	%100
47	M93C	X	2.467	2.467	0	%100
48	M93C	Z	1.425	1.425	0	%100
49	M94B	X	.617	.617	0	%100
50	M94B	Z	.356	.356	0	%100
51	DC	X	2.191	2.191	0	%100
52	DC	Z	1.265	1.265	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,%]
53	M95B	X	3.081	3.081	0	%100
54	M95B	Z	1.779	1.779	0	%100
55	M96C	X	3.081	3.081	0	%100
56	M96C	Z	1.779	1.779	0	%100
57	M97	X	1.513	1.513	0	%100
58	M97	Z	.873	.873	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	M4	X	.494	.494	0	%100
2	M4	Z	.856	.856	0	%100
3	M14	X	1.978	1.978	0	%100
4	M14	Z	3.425	3.425	0	%100
5	M27	X	.494	.494	0	%100
6	M27	Z	.856	.856	0	%100
7	MP4A	X	1.38	1.38	0	%100
8	MP4A	Z	2.391	2.391	0	%100
9	MP3A	X	1.38	1.38	0	%100
10	MP3A	Z	2.391	2.391	0	%100
11	MP2A	X	1.38	1.38	0	%100
12	MP2A	Z	2.391	2.391	0	%100
13	MP1A	X	1.38	1.38	0	%100
14	MP1A	Z	2.391	2.391	0	%100
15	M71	X	1.035	1.035	0	%100
16	M71	Z	1.793	1.793	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	1.265	1.265	0	%100
20	M93	Z	2.191	2.191	0	%100
21	M94A	X	1.431	1.431	0	%100
22	M94A	Z	2.479	2.479	0	%100
23	M95A	X	1.431	1.431	0	%100
24	M95A	Z	2.479	2.479	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	1.38	1.38	0	%100
28	MP4C	Z	2.391	2.391	0	%100
29	MP3C	X	1.38	1.38	0	%100
30	MP3C	Z	2.391	2.391	0	%100
31	MP2C	X	1.38	1.38	0	%100
32	MP2C	Z	2.391	2.391	0	%100
33	MP1C	X	1.38	1.38	0	%100
34	MP1C	Z	2.391	2.391	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	1.38	1.38	0	%100
38	MP4B	Z	2.391	2.391	0	%100
39	MP3B	X	1.38	1.38	0	%100
40	MP3B	Z	2.391	2.391	0	%100
41	MP2B	X	1.38	1.38	0	%100
42	MP2B	Z	2.391	2.391	0	%100
43	MP1B	X	1.38	1.38	0	%100
44	MP1B	Z	2.391	2.391	0	%100
45	M87A	X	1.035	1.035	0	%100
46	M87A	Z	1.793	1.793	0	%100
47	M93C	X	1.068	1.068	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,%]
48	M93C	Z	1.85	1.85	0	%100
49	M94B	X	1.068	1.068	0	%100
50	M94B	Z	1.85	1.85	0	%100
51	DC	X	1.265	1.265	0	%100
52	DC	Z	2.191	2.191	0	%100
53	M95B	X	1.175	1.175	0	%100
54	M95B	Z	2.035	2.035	0	%100
55	M96C	X	2.081	2.081	0	%100
56	M96C	Z	3.604	3.604	0	%100
57	M97	X	1.175	1.175	0	%100
58	M97	Z	2.035	2.035	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	2.966	2.966	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	2.966	2.966	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	2.761	2.761	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	2.761	2.761	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	2.761	2.761	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	2.761	2.761	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	2.761	2.761	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	.712	.712	0	%100
19	M93	X	0	0	0	%100
20	M93	Z	2.53	2.53	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	3.816	3.816	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	.954	.954	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	.954	.954	0	%100
27	MP4C	X	0	0	0	%100
28	MP4C	Z	2.761	2.761	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	2.761	2.761	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	2.761	2.761	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	2.761	2.761	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	.69	.69	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	2.761	2.761	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	2.761	2.761	0	%100
41	MP2B	X	0	0	0	%100
42	MP2B	Z	2.761	2.761	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,%]
43	MP1B	X	0	0	0	%100
44	MP1B	Z	2.761	2.761	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	.69	.69	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	.712	.712	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	2.849	2.849	0	%100
51	DC	X	0	0	0	%100
52	DC	Z	2.53	2.53	0	%100
53	M95B	X	0	0	0	%100
54	M95B	Z	1.747	1.747	0	%100
55	M96C	X	0	0	0	%100
56	M96C	Z	3.557	3.557	0	%100
57	M97	X	0	0	0	%100
58	M97	Z	3.557	3.557	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	M4	X	-.494	-.494	0	%100
2	M4	Z	.856	.856	0	%100
3	M14	X	-.494	-.494	0	%100
4	M14	Z	.856	.856	0	%100
5	M27	X	-1.978	-1.978	0	%100
6	M27	Z	3.425	3.425	0	%100
7	MP4A	X	-1.38	-1.38	0	%100
8	MP4A	Z	2.391	2.391	0	%100
9	MP3A	X	-1.38	-1.38	0	%100
10	MP3A	Z	2.391	2.391	0	%100
11	MP2A	X	-1.38	-1.38	0	%100
12	MP2A	Z	2.391	2.391	0	%100
13	MP1A	X	-1.38	-1.38	0	%100
14	MP1A	Z	2.391	2.391	0	%100
15	M71	X	-1.035	-1.035	0	%100
16	M71	Z	1.793	1.793	0	%100
17	M80	X	-1.068	-1.068	0	%100
18	M80	Z	1.85	1.85	0	%100
19	M93	X	-1.265	-1.265	0	%100
20	M93	Z	2.191	2.191	0	%100
21	M94A	X	-1.431	-1.431	0	%100
22	M94A	Z	2.479	2.479	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	-1.431	-1.431	0	%100
26	M96A	Z	2.479	2.479	0	%100
27	MP4C	X	-1.38	-1.38	0	%100
28	MP4C	Z	2.391	2.391	0	%100
29	MP3C	X	-1.38	-1.38	0	%100
30	MP3C	Z	2.391	2.391	0	%100
31	MP2C	X	-1.38	-1.38	0	%100
32	MP2C	Z	2.391	2.391	0	%100
33	MP1C	X	-1.38	-1.38	0	%100
34	MP1C	Z	2.391	2.391	0	%100
35	M72	X	-1.035	-1.035	0	%100
36	M72	Z	1.793	1.793	0	%100
37	MP4B	X	-1.38	-1.38	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,%]
38	MP4B	Z	2.391	2.391	0	%100
39	MP3B	X	-1.38	-1.38	0	%100
40	MP3B	Z	2.391	2.391	0	%100
41	MP2B	X	-1.38	-1.38	0	%100
42	MP2B	Z	2.391	2.391	0	%100
43	MP1B	X	-1.38	-1.38	0	%100
44	MP1B	Z	2.391	2.391	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	-1.068	-1.068	0	%100
50	M94B	Z	1.85	1.85	0	%100
51	DC	X	-1.265	-1.265	0	%100
52	DC	Z	2.191	2.191	0	%100
53	M95B	X	-1.175	-1.175	0	%100
54	M95B	Z	2.035	2.035	0	%100
55	M96C	X	-1.175	-1.175	0	%100
56	M96C	Z	2.035	2.035	0	%100
57	M97	X	-2.081	-2.081	0	%100
58	M97	Z	3.604	3.604	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	M4	X	-2.569	-2.569	0	%100
2	M4	Z	1.483	1.483	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-2.569	-2.569	0	%100
6	M27	Z	1.483	1.483	0	%100
7	MP4A	X	-2.391	-2.391	0	%100
8	MP4A	Z	1.38	1.38	0	%100
9	MP3A	X	-2.391	-2.391	0	%100
10	MP3A	Z	1.38	1.38	0	%100
11	MP2A	X	-2.391	-2.391	0	%100
12	MP2A	Z	1.38	1.38	0	%100
13	MP1A	X	-2.391	-2.391	0	%100
14	MP1A	Z	1.38	1.38	0	%100
15	M71	X	-.598	-.598	0	%100
16	M71	Z	.345	.345	0	%100
17	M80	X	-2.467	-2.467	0	%100
18	M80	Z	1.425	1.425	0	%100
19	M93	X	-2.191	-2.191	0	%100
20	M93	Z	1.265	1.265	0	%100
21	M94A	X	-.826	-.826	0	%100
22	M94A	Z	.477	.477	0	%100
23	M95A	X	-.826	-.826	0	%100
24	M95A	Z	.477	.477	0	%100
25	M96A	X	-3.305	-3.305	0	%100
26	M96A	Z	1.908	1.908	0	%100
27	MP4C	X	-2.391	-2.391	0	%100
28	MP4C	Z	1.38	1.38	0	%100
29	MP3C	X	-2.391	-2.391	0	%100
30	MP3C	Z	1.38	1.38	0	%100
31	MP2C	X	-2.391	-2.391	0	%100
32	MP2C	Z	1.38	1.38	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,%]
33	MP1C	X	-2.391	-2.391	0	%100
34	MP1C	Z	1.38	1.38	0	%100
35	M72	X	-2.391	-2.391	0	%100
36	M72	Z	1.38	1.38	0	%100
37	MP4B	X	-2.391	-2.391	0	%100
38	MP4B	Z	1.38	1.38	0	%100
39	MP3B	X	-2.391	-2.391	0	%100
40	MP3B	Z	1.38	1.38	0	%100
41	MP2B	X	-2.391	-2.391	0	%100
42	MP2B	Z	1.38	1.38	0	%100
43	MP1B	X	-2.391	-2.391	0	%100
44	MP1B	Z	1.38	1.38	0	%100
45	M87A	X	-.598	-.598	0	%100
46	M87A	Z	.345	.345	0	%100
47	M93C	X	-.617	-.617	0	%100
48	M93C	Z	.356	.356	0	%100
49	M94B	X	-.617	-.617	0	%100
50	M94B	Z	.356	.356	0	%100
51	DC	X	-2.191	-2.191	0	%100
52	DC	Z	1.265	1.265	0	%100
53	M95B	X	-3.081	-3.081	0	%100
54	M95B	Z	1.779	1.779	0	%100
55	M96C	X	-1.513	-1.513	0	%100
56	M96C	Z	.873	.873	0	%100
57	M97	X	-3.081	-3.081	0	%100
58	M97	Z	1.779	1.779	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	M4	X	-3.955	-3.955	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-.989	-.989	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-.989	-.989	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	-2.761	-2.761	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-2.761	-2.761	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	-2.761	-2.761	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-2.761	-2.761	0	%100
14	MP1A	Z	0	0	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	0	0	0	%100
17	M80	X	-2.137	-2.137	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	-2.53	-2.53	0	%100
20	M93	Z	0	0	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	0	0	0	%100
23	M95A	X	-2.862	-2.862	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	-2.862	-2.862	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	-2.761	-2.761	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,%]
28	MP4C	Z	0	0	0	%100
29	MP3C	X	-2.761	-2.761	0	%100
30	MP3C	Z	0	0	0	%100
31	MP2C	X	-2.761	-2.761	0	%100
32	MP2C	Z	0	0	0	%100
33	MP1C	X	-2.761	-2.761	0	%100
34	MP1C	Z	0	0	0	%100
35	M72	X	-2.07	-2.07	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	-2.761	-2.761	0	%100
38	MP4B	Z	0	0	0	%100
39	MP3B	X	-2.761	-2.761	0	%100
40	MP3B	Z	0	0	0	%100
41	MP2B	X	-2.761	-2.761	0	%100
42	MP2B	Z	0	0	0	%100
43	MP1B	X	-2.761	-2.761	0	%100
44	MP1B	Z	0	0	0	%100
45	M87A	X	-2.07	-2.07	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	-2.137	-2.137	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	0	0	0	%100
51	DC	X	-2.53	-2.53	0	%100
52	DC	Z	0	0	0	%100
53	M95B	X	-4.161	-4.161	0	%100
54	M95B	Z	0	0	0	%100
55	M96C	X	-2.35	-2.35	0	%100
56	M96C	Z	0	0	0	%100
57	M97	X	-2.35	-2.35	0	%100
58	M97	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	M4	X	-2.569	-2.569	0	%100
2	M4	Z	-1.483	-1.483	0	%100
3	M14	X	-2.569	-2.569	0	%100
4	M14	Z	-1.483	-1.483	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	-2.391	-2.391	0	%100
8	MP4A	Z	-1.38	-1.38	0	%100
9	MP3A	X	-2.391	-2.391	0	%100
10	MP3A	Z	-1.38	-1.38	0	%100
11	MP2A	X	-2.391	-2.391	0	%100
12	MP2A	Z	-1.38	-1.38	0	%100
13	MP1A	X	-2.391	-2.391	0	%100
14	MP1A	Z	-1.38	-1.38	0	%100
15	M71	X	-.598	-.598	0	%100
16	M71	Z	-.345	-.345	0	%100
17	M80	X	-.617	-.617	0	%100
18	M80	Z	-.356	-.356	0	%100
19	M93	X	-2.191	-2.191	0	%100
20	M93	Z	-1.265	-1.265	0	%100
21	M94A	X	-.826	-.826	0	%100
22	M94A	Z	-.477	-.477	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,%]
23	M95A	X	-3.305	-3.305	0	%100
24	M95A	Z	-1.908	-1.908	0	%100
25	M96A	X	-.826	-.826	0	%100
26	M96A	Z	-.477	-.477	0	%100
27	MP4C	X	-2.391	-2.391	0	%100
28	MP4C	Z	-1.38	-1.38	0	%100
29	MP3C	X	-2.391	-2.391	0	%100
30	MP3C	Z	-1.38	-1.38	0	%100
31	MP2C	X	-2.391	-2.391	0	%100
32	MP2C	Z	-1.38	-1.38	0	%100
33	MP1C	X	-2.391	-2.391	0	%100
34	MP1C	Z	-1.38	-1.38	0	%100
35	M72	X	-.598	-.598	0	%100
36	M72	Z	-.345	-.345	0	%100
37	MP4B	X	-2.391	-2.391	0	%100
38	MP4B	Z	-1.38	-1.38	0	%100
39	MP3B	X	-2.391	-2.391	0	%100
40	MP3B	Z	-1.38	-1.38	0	%100
41	MP2B	X	-2.391	-2.391	0	%100
42	MP2B	Z	-1.38	-1.38	0	%100
43	MP1B	X	-2.391	-2.391	0	%100
44	MP1B	Z	-1.38	-1.38	0	%100
45	M87A	X	-2.391	-2.391	0	%100
46	M87A	Z	-1.38	-1.38	0	%100
47	M93C	X	-2.467	-2.467	0	%100
48	M93C	Z	-1.425	-1.425	0	%100
49	M94B	X	-.617	-.617	0	%100
50	M94B	Z	-.356	-.356	0	%100
51	DC	X	-2.191	-2.191	0	%100
52	DC	Z	-1.265	-1.265	0	%100
53	M95B	X	-3.081	-3.081	0	%100
54	M95B	Z	-1.779	-1.779	0	%100
55	M96C	X	-3.081	-3.081	0	%100
56	M96C	Z	-1.779	-1.779	0	%100
57	M97	X	-1.513	-1.513	0	%100
58	M97	Z	-.873	-.873	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	M4	X	-.494	-.494	0	%100
2	M4	Z	-.856	-.856	0	%100
3	M14	X	-1.978	-1.978	0	%100
4	M14	Z	-3.425	-3.425	0	%100
5	M27	X	-.494	-.494	0	%100
6	M27	Z	-.856	-.856	0	%100
7	MP4A	X	-1.38	-1.38	0	%100
8	MP4A	Z	-2.391	-2.391	0	%100
9	MP3A	X	-1.38	-1.38	0	%100
10	MP3A	Z	-2.391	-2.391	0	%100
11	MP2A	X	-1.38	-1.38	0	%100
12	MP2A	Z	-2.391	-2.391	0	%100
13	MP1A	X	-1.38	-1.38	0	%100
14	MP1A	Z	-2.391	-2.391	0	%100
15	M71	X	-1.035	-1.035	0	%100
16	M71	Z	-1.793	-1.793	0	%100
17	M80	X	0	0	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,%]
18	M80	Z	0	0	0	%100
19	M93	X	-1.265	-1.265	0	%100
20	M93	Z	-2.191	-2.191	0	%100
21	M94A	X	-1.431	-1.431	0	%100
22	M94A	Z	-2.479	-2.479	0	%100
23	M95A	X	-1.431	-1.431	0	%100
24	M95A	Z	-2.479	-2.479	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	-1.38	-1.38	0	%100
28	MP4C	Z	-2.391	-2.391	0	%100
29	MP3C	X	-1.38	-1.38	0	%100
30	MP3C	Z	-2.391	-2.391	0	%100
31	MP2C	X	-1.38	-1.38	0	%100
32	MP2C	Z	-2.391	-2.391	0	%100
33	MP1C	X	-1.38	-1.38	0	%100
34	MP1C	Z	-2.391	-2.391	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	-1.38	-1.38	0	%100
38	MP4B	Z	-2.391	-2.391	0	%100
39	MP3B	X	-1.38	-1.38	0	%100
40	MP3B	Z	-2.391	-2.391	0	%100
41	MP2B	X	-1.38	-1.38	0	%100
42	MP2B	Z	-2.391	-2.391	0	%100
43	MP1B	X	-1.38	-1.38	0	%100
44	MP1B	Z	-2.391	-2.391	0	%100
45	M87A	X	-1.035	-1.035	0	%100
46	M87A	Z	-1.793	-1.793	0	%100
47	M93C	X	-1.068	-1.068	0	%100
48	M93C	Z	-1.85	-1.85	0	%100
49	M94B	X	-1.068	-1.068	0	%100
50	M94B	Z	-1.85	-1.85	0	%100
51	DC	X	-1.265	-1.265	0	%100
52	DC	Z	-2.191	-2.191	0	%100
53	M95B	X	-1.175	-1.175	0	%100
54	M95B	Z	-2.035	-2.035	0	%100
55	M96C	X	-2.081	-2.081	0	%100
56	M96C	Z	-3.604	-3.604	0	%100
57	M97	X	-1.175	-1.175	0	%100
58	M97	Z	-2.035	-2.035	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-.7	-.7	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-.7	-.7	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-.504	-.504	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-.504	-.504	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-.504	-.504	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,%]
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-.504	-.504	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	-.504	-.504	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	-.166	-.166	0	%100
19	M93	X	0	0	0	%100
20	M93	Z	-.459	-.459	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	-.884	-.884	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	-.221	-.221	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	-.221	-.221	0	%100
27	MP4C	X	0	0	0	%100
28	MP4C	Z	-.504	-.504	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	-.504	-.504	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	-.504	-.504	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	-.504	-.504	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	-.126	-.126	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	-.504	-.504	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	-.504	-.504	0	%100
41	MP2B	X	0	0	0	%100
42	MP2B	Z	-.504	-.504	0	%100
43	MP1B	X	0	0	0	%100
44	MP1B	Z	-.504	-.504	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	-.126	-.126	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	-.166	-.166	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	-.664	-.664	0	%100
51	DC	X	0	0	0	%100
52	DC	Z	-.459	-.459	0	%100
53	M95B	X	0	0	0	%100
54	M95B	Z	-.483	-.483	0	%100
55	M96C	X	0	0	0	%100
56	M96C	Z	-.877	-.877	0	%100
57	M97	X	0	0	0	%100
58	M97	Z	-.877	-.877	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	M4	X	.117	.117	0	%100
2	M4	Z	-.202	-.202	0	%100
3	M14	X	.117	.117	0	%100
4	M14	Z	-.202	-.202	0	%100
5	M27	X	.467	.467	0	%100
6	M27	Z	-.809	-.809	0	%100
7	MP4A	X	.252	.252	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,%]
8	MP4A	Z	-.436	-.436	0	%100
9	MP3A	X	.252	.252	0	%100
10	MP3A	Z	-.436	-.436	0	%100
11	MP2A	X	.252	.252	0	%100
12	MP2A	Z	-.436	-.436	0	%100
13	MP1A	X	.252	.252	0	%100
14	MP1A	Z	-.436	-.436	0	%100
15	M71	X	.189	.189	0	%100
16	M71	Z	-.327	-.327	0	%100
17	M80	X	.249	.249	0	%100
18	M80	Z	-.431	-.431	0	%100
19	M93	X	.23	.23	0	%100
20	M93	Z	-.398	-.398	0	%100
21	M94A	X	.331	.331	0	%100
22	M94A	Z	-.574	-.574	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	.331	.331	0	%100
26	M96A	Z	-.574	-.574	0	%100
27	MP4C	X	.252	.252	0	%100
28	MP4C	Z	-.436	-.436	0	%100
29	MP3C	X	.252	.252	0	%100
30	MP3C	Z	-.436	-.436	0	%100
31	MP2C	X	.252	.252	0	%100
32	MP2C	Z	-.436	-.436	0	%100
33	MP1C	X	.252	.252	0	%100
34	MP1C	Z	-.436	-.436	0	%100
35	M72	X	.189	.189	0	%100
36	M72	Z	-.327	-.327	0	%100
37	MP4B	X	.252	.252	0	%100
38	MP4B	Z	-.436	-.436	0	%100
39	MP3B	X	.252	.252	0	%100
40	MP3B	Z	-.436	-.436	0	%100
41	MP2B	X	.252	.252	0	%100
42	MP2B	Z	-.436	-.436	0	%100
43	MP1B	X	.252	.252	0	%100
44	MP1B	Z	-.436	-.436	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	.249	.249	0	%100
50	M94B	Z	-.431	-.431	0	%100
51	DC	X	.23	.23	0	%100
52	DC	Z	-.398	-.398	0	%100
53	M95B	X	.307	.307	0	%100
54	M95B	Z	-.532	-.532	0	%100
55	M96C	X	.307	.307	0	%100
56	M96C	Z	-.532	-.532	0	%100
57	M97	X	.504	.504	0	%100
58	M97	Z	-.873	-.873	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	M4	X	.607	.607	0	%100
2	M4	Z	-.35	-.35	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,%]
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	.607	.607	0	%100
6	M27	Z	-.35	-.35	0	%100
7	MP4A	X	.436	.436	0	%100
8	MP4A	Z	-.252	-.252	0	%100
9	MP3A	X	.436	.436	0	%100
10	MP3A	Z	-.252	-.252	0	%100
11	MP2A	X	.436	.436	0	%100
12	MP2A	Z	-.252	-.252	0	%100
13	MP1A	X	.436	.436	0	%100
14	MP1A	Z	-.252	-.252	0	%100
15	M71	X	.109	.109	0	%100
16	M71	Z	-.063	-.063	0	%100
17	M80	X	.575	.575	0	%100
18	M80	Z	-.332	-.332	0	%100
19	M93	X	.398	.398	0	%100
20	M93	Z	-.23	-.23	0	%100
21	M94A	X	.191	.191	0	%100
22	M94A	Z	-.11	-.11	0	%100
23	M95A	X	.191	.191	0	%100
24	M95A	Z	-.11	-.11	0	%100
25	M96A	X	.766	.766	0	%100
26	M96A	Z	-.442	-.442	0	%100
27	MP4C	X	.436	.436	0	%100
28	MP4C	Z	-.252	-.252	0	%100
29	MP3C	X	.436	.436	0	%100
30	MP3C	Z	-.252	-.252	0	%100
31	MP2C	X	.436	.436	0	%100
32	MP2C	Z	-.252	-.252	0	%100
33	MP1C	X	.436	.436	0	%100
34	MP1C	Z	-.252	-.252	0	%100
35	M72	X	.436	.436	0	%100
36	M72	Z	-.252	-.252	0	%100
37	MP4B	X	.436	.436	0	%100
38	MP4B	Z	-.252	-.252	0	%100
39	MP3B	X	.436	.436	0	%100
40	MP3B	Z	-.252	-.252	0	%100
41	MP2B	X	.436	.436	0	%100
42	MP2B	Z	-.252	-.252	0	%100
43	MP1B	X	.436	.436	0	%100
44	MP1B	Z	-.252	-.252	0	%100
45	M87A	X	.109	.109	0	%100
46	M87A	Z	-.063	-.063	0	%100
47	M93C	X	.144	.144	0	%100
48	M93C	Z	-.083	-.083	0	%100
49	M94B	X	.144	.144	0	%100
50	M94B	Z	-.083	-.083	0	%100
51	DC	X	.398	.398	0	%100
52	DC	Z	-.23	-.23	0	%100
53	M95B	X	.759	.759	0	%100
54	M95B	Z	-.438	-.438	0	%100
55	M96C	X	.419	.419	0	%100
56	M96C	Z	-.242	-.242	0	%100
57	M97	X	.759	.759	0	%100
58	M97	Z	-.438	-.438	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	M4	X	.934	.934	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	.233	.233	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	.233	.233	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	.504	.504	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	.504	.504	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	.504	.504	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.504	.504	0	%100
14	MP1A	Z	0	0	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	0	0	0	%100
17	M80	X	.498	.498	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	.459	.459	0	%100
20	M93	Z	0	0	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	0	0	0	%100
23	M95A	X	.663	.663	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	.663	.663	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	.504	.504	0	%100
28	MP4C	Z	0	0	0	%100
29	MP3C	X	.504	.504	0	%100
30	MP3C	Z	0	0	0	%100
31	MP2C	X	.504	.504	0	%100
32	MP2C	Z	0	0	0	%100
33	MP1C	X	.504	.504	0	%100
34	MP1C	Z	0	0	0	%100
35	M72	X	.378	.378	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	.504	.504	0	%100
38	MP4B	Z	0	0	0	%100
39	MP3B	X	.504	.504	0	%100
40	MP3B	Z	0	0	0	%100
41	MP2B	X	.504	.504	0	%100
42	MP2B	Z	0	0	0	%100
43	MP1B	X	.504	.504	0	%100
44	MP1B	Z	0	0	0	%100
45	M87A	X	.378	.378	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	.498	.498	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	0	0	0	%100
51	DC	X	.459	.459	0	%100
52	DC	Z	0	0	0	%100
53	M95B	X	1.008	1.008	0	%100
54	M95B	Z	0	0	0	%100
55	M96C	X	.614	.614	0	%100
56	M96C	Z	0	0	0	%100
57	M97	X	.614	.614	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,%]
58	M97	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	M4	X	.607	.607	0	%100
2	M4	Z	.35	.35	0	%100
3	M14	X	.607	.607	0	%100
4	M14	Z	.35	.35	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	.436	.436	0	%100
8	MP4A	Z	.252	.252	0	%100
9	MP3A	X	.436	.436	0	%100
10	MP3A	Z	.252	.252	0	%100
11	MP2A	X	.436	.436	0	%100
12	MP2A	Z	.252	.252	0	%100
13	MP1A	X	.436	.436	0	%100
14	MP1A	Z	.252	.252	0	%100
15	M71	X	.109	.109	0	%100
16	M71	Z	.063	.063	0	%100
17	M80	X	.144	.144	0	%100
18	M80	Z	.083	.083	0	%100
19	M93	X	.398	.398	0	%100
20	M93	Z	.23	.23	0	%100
21	M94A	X	.191	.191	0	%100
22	M94A	Z	.11	.11	0	%100
23	M95A	X	.766	.766	0	%100
24	M95A	Z	.442	.442	0	%100
25	M96A	X	.191	.191	0	%100
26	M96A	Z	.11	.11	0	%100
27	MP4C	X	.436	.436	0	%100
28	MP4C	Z	.252	.252	0	%100
29	MP3C	X	.436	.436	0	%100
30	MP3C	Z	.252	.252	0	%100
31	MP2C	X	.436	.436	0	%100
32	MP2C	Z	.252	.252	0	%100
33	MP1C	X	.436	.436	0	%100
34	MP1C	Z	.252	.252	0	%100
35	M72	X	.109	.109	0	%100
36	M72	Z	.063	.063	0	%100
37	MP4B	X	.436	.436	0	%100
38	MP4B	Z	.252	.252	0	%100
39	MP3B	X	.436	.436	0	%100
40	MP3B	Z	.252	.252	0	%100
41	MP2B	X	.436	.436	0	%100
42	MP2B	Z	.252	.252	0	%100
43	MP1B	X	.436	.436	0	%100
44	MP1B	Z	.252	.252	0	%100
45	M87A	X	.436	.436	0	%100
46	M87A	Z	.252	.252	0	%100
47	M93C	X	.575	.575	0	%100
48	M93C	Z	.332	.332	0	%100
49	M94B	X	.144	.144	0	%100
50	M94B	Z	.083	.083	0	%100
51	DC	X	.398	.398	0	%100
52	DC	Z	.23	.23	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,%]
53	M95B	X	.759	.759	0	%100
54	M95B	Z	.438	.438	0	%100
55	M96C	X	.759	.759	0	%100
56	M96C	Z	.438	.438	0	%100
57	M97	X	.419	.419	0	%100
58	M97	Z	.242	.242	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	M4	X	.117	.117	0	%100
2	M4	Z	.202	.202	0	%100
3	M14	X	.467	.467	0	%100
4	M14	Z	.809	.809	0	%100
5	M27	X	.117	.117	0	%100
6	M27	Z	.202	.202	0	%100
7	MP4A	X	.252	.252	0	%100
8	MP4A	Z	.436	.436	0	%100
9	MP3A	X	.252	.252	0	%100
10	MP3A	Z	.436	.436	0	%100
11	MP2A	X	.252	.252	0	%100
12	MP2A	Z	.436	.436	0	%100
13	MP1A	X	.252	.252	0	%100
14	MP1A	Z	.436	.436	0	%100
15	M71	X	.189	.189	0	%100
16	M71	Z	.327	.327	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	.23	.23	0	%100
20	M93	Z	.398	.398	0	%100
21	M94A	X	.331	.331	0	%100
22	M94A	Z	.574	.574	0	%100
23	M95A	X	.331	.331	0	%100
24	M95A	Z	.574	.574	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	.252	.252	0	%100
28	MP4C	Z	.436	.436	0	%100
29	MP3C	X	.252	.252	0	%100
30	MP3C	Z	.436	.436	0	%100
31	MP2C	X	.252	.252	0	%100
32	MP2C	Z	.436	.436	0	%100
33	MP1C	X	.252	.252	0	%100
34	MP1C	Z	.436	.436	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	.252	.252	0	%100
38	MP4B	Z	.436	.436	0	%100
39	MP3B	X	.252	.252	0	%100
40	MP3B	Z	.436	.436	0	%100
41	MP2B	X	.252	.252	0	%100
42	MP2B	Z	.436	.436	0	%100
43	MP1B	X	.252	.252	0	%100
44	MP1B	Z	.436	.436	0	%100
45	M87A	X	.189	.189	0	%100
46	M87A	Z	.327	.327	0	%100
47	M93C	X	.249	.249	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,%]
48	M93C	Z	.431	.431	0	%100
49	M94B	X	.249	.249	0	%100
50	M94B	Z	.431	.431	0	%100
51	DC	X	.23	.23	0	%100
52	DC	Z	.398	.398	0	%100
53	M95B	X	.307	.307	0	%100
54	M95B	Z	.532	.532	0	%100
55	M96C	X	.504	.504	0	%100
56	M96C	Z	.873	.873	0	%100
57	M97	X	.307	.307	0	%100
58	M97	Z	.532	.532	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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	.7	.7	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	.7	.7	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	.504	.504	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	.504	.504	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.504	.504	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.504	.504	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	.504	.504	0	%100
17	M80	X	0	0	0	%100
18	M80	Z	.166	.166	0	%100
19	M93	X	0	0	0	%100
20	M93	Z	.459	.459	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	.884	.884	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	.221	.221	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	.221	.221	0	%100
27	MP4C	X	0	0	0	%100
28	MP4C	Z	.504	.504	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	.504	.504	0	%100
31	MP2C	X	0	0	0	%100
32	MP2C	Z	.504	.504	0	%100
33	MP1C	X	0	0	0	%100
34	MP1C	Z	.504	.504	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	.126	.126	0	%100
37	MP4B	X	0	0	0	%100
38	MP4B	Z	.504	.504	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	.504	.504	0	%100
41	MP2B	X	0	0	0	%100
42	MP2B	Z	.504	.504	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,%]
43	MP1B	X	0	0	0	%100
44	MP1B	Z	.504	.504	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	.126	.126	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	.166	.166	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	.664	.664	0	%100
51	DC	X	0	0	0	%100
52	DC	Z	.459	.459	0	%100
53	M95B	X	0	0	0	%100
54	M95B	Z	.483	.483	0	%100
55	M96C	X	0	0	0	%100
56	M96C	Z	.877	.877	0	%100
57	M97	X	0	0	0	%100
58	M97	Z	.877	.877	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	M4	X	-.117	-.117	0	%100
2	M4	Z	.202	.202	0	%100
3	M14	X	-.117	-.117	0	%100
4	M14	Z	.202	.202	0	%100
5	M27	X	-.467	-.467	0	%100
6	M27	Z	.809	.809	0	%100
7	MP4A	X	-.252	-.252	0	%100
8	MP4A	Z	.436	.436	0	%100
9	MP3A	X	-.252	-.252	0	%100
10	MP3A	Z	.436	.436	0	%100
11	MP2A	X	-.252	-.252	0	%100
12	MP2A	Z	.436	.436	0	%100
13	MP1A	X	-.252	-.252	0	%100
14	MP1A	Z	.436	.436	0	%100
15	M71	X	-.189	-.189	0	%100
16	M71	Z	.327	.327	0	%100
17	M80	X	-.249	-.249	0	%100
18	M80	Z	.431	.431	0	%100
19	M93	X	-.23	-.23	0	%100
20	M93	Z	.398	.398	0	%100
21	M94A	X	-.331	-.331	0	%100
22	M94A	Z	.574	.574	0	%100
23	M95A	X	0	0	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	-.331	-.331	0	%100
26	M96A	Z	.574	.574	0	%100
27	MP4C	X	-.252	-.252	0	%100
28	MP4C	Z	.436	.436	0	%100
29	MP3C	X	-.252	-.252	0	%100
30	MP3C	Z	.436	.436	0	%100
31	MP2C	X	-.252	-.252	0	%100
32	MP2C	Z	.436	.436	0	%100
33	MP1C	X	-.252	-.252	0	%100
34	MP1C	Z	.436	.436	0	%100
35	M72	X	-.189	-.189	0	%100
36	M72	Z	.327	.327	0	%100
37	MP4B	X	-.252	-.252	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,%]
38	MP4B	Z	.436	.436	0	%100
39	MP3B	X	-.252	-.252	0	%100
40	MP3B	Z	.436	.436	0	%100
41	MP2B	X	-.252	-.252	0	%100
42	MP2B	Z	.436	.436	0	%100
43	MP1B	X	-.252	-.252	0	%100
44	MP1B	Z	.436	.436	0	%100
45	M87A	X	0	0	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	0	0	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	-.249	-.249	0	%100
50	M94B	Z	.431	.431	0	%100
51	DC	X	-.23	-.23	0	%100
52	DC	Z	.398	.398	0	%100
53	M95B	X	-.307	-.307	0	%100
54	M95B	Z	.532	.532	0	%100
55	M96C	X	-.307	-.307	0	%100
56	M96C	Z	.532	.532	0	%100
57	M97	X	-.504	-.504	0	%100
58	M97	Z	.873	.873	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	M4	X	-.607	-.607	0	%100
2	M4	Z	.35	.35	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-.607	-.607	0	%100
6	M27	Z	.35	.35	0	%100
7	MP4A	X	-.436	-.436	0	%100
8	MP4A	Z	.252	.252	0	%100
9	MP3A	X	-.436	-.436	0	%100
10	MP3A	Z	.252	.252	0	%100
11	MP2A	X	-.436	-.436	0	%100
12	MP2A	Z	.252	.252	0	%100
13	MP1A	X	-.436	-.436	0	%100
14	MP1A	Z	.252	.252	0	%100
15	M71	X	-.109	-.109	0	%100
16	M71	Z	.063	.063	0	%100
17	M80	X	-.575	-.575	0	%100
18	M80	Z	.332	.332	0	%100
19	M93	X	-.398	-.398	0	%100
20	M93	Z	.23	.23	0	%100
21	M94A	X	-.191	-.191	0	%100
22	M94A	Z	.11	.11	0	%100
23	M95A	X	-.191	-.191	0	%100
24	M95A	Z	.11	.11	0	%100
25	M96A	X	-.766	-.766	0	%100
26	M96A	Z	.442	.442	0	%100
27	MP4C	X	-.436	-.436	0	%100
28	MP4C	Z	.252	.252	0	%100
29	MP3C	X	-.436	-.436	0	%100
30	MP3C	Z	.252	.252	0	%100
31	MP2C	X	-.436	-.436	0	%100
32	MP2C	Z	.252	.252	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,%]
33	MP1C	X	-.436	-.436	0	%100
34	MP1C	Z	.252	.252	0	%100
35	M72	X	-.436	-.436	0	%100
36	M72	Z	.252	.252	0	%100
37	MP4B	X	-.436	-.436	0	%100
38	MP4B	Z	.252	.252	0	%100
39	MP3B	X	-.436	-.436	0	%100
40	MP3B	Z	.252	.252	0	%100
41	MP2B	X	-.436	-.436	0	%100
42	MP2B	Z	.252	.252	0	%100
43	MP1B	X	-.436	-.436	0	%100
44	MP1B	Z	.252	.252	0	%100
45	M87A	X	-.109	-.109	0	%100
46	M87A	Z	.063	.063	0	%100
47	M93C	X	-.144	-.144	0	%100
48	M93C	Z	.083	.083	0	%100
49	M94B	X	-.144	-.144	0	%100
50	M94B	Z	.083	.083	0	%100
51	DC	X	-.398	-.398	0	%100
52	DC	Z	.23	.23	0	%100
53	M95B	X	-.759	-.759	0	%100
54	M95B	Z	.438	.438	0	%100
55	M96C	X	-.419	-.419	0	%100
56	M96C	Z	.242	.242	0	%100
57	M97	X	-.759	-.759	0	%100
58	M97	Z	.438	.438	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	M4	X	-.934	-.934	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-.233	-.233	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-.233	-.233	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	-.504	-.504	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-.504	-.504	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	-.504	-.504	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-.504	-.504	0	%100
14	MP1A	Z	0	0	0	%100
15	M71	X	0	0	0	%100
16	M71	Z	0	0	0	%100
17	M80	X	-.498	-.498	0	%100
18	M80	Z	0	0	0	%100
19	M93	X	-.459	-.459	0	%100
20	M93	Z	0	0	0	%100
21	M94A	X	0	0	0	%100
22	M94A	Z	0	0	0	%100
23	M95A	X	-.663	-.663	0	%100
24	M95A	Z	0	0	0	%100
25	M96A	X	-.663	-.663	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	-.504	-.504	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,%]
28	MP4C	Z	0	0	0	%100
29	MP3C	X	-.504	-.504	0	%100
30	MP3C	Z	0	0	0	%100
31	MP2C	X	-.504	-.504	0	%100
32	MP2C	Z	0	0	0	%100
33	MP1C	X	-.504	-.504	0	%100
34	MP1C	Z	0	0	0	%100
35	M72	X	-.378	-.378	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	-.504	-.504	0	%100
38	MP4B	Z	0	0	0	%100
39	MP3B	X	-.504	-.504	0	%100
40	MP3B	Z	0	0	0	%100
41	MP2B	X	-.504	-.504	0	%100
42	MP2B	Z	0	0	0	%100
43	MP1B	X	-.504	-.504	0	%100
44	MP1B	Z	0	0	0	%100
45	M87A	X	-.378	-.378	0	%100
46	M87A	Z	0	0	0	%100
47	M93C	X	-.498	-.498	0	%100
48	M93C	Z	0	0	0	%100
49	M94B	X	0	0	0	%100
50	M94B	Z	0	0	0	%100
51	DC	X	-.459	-.459	0	%100
52	DC	Z	0	0	0	%100
53	M95B	X	-1.008	-1.008	0	%100
54	M95B	Z	0	0	0	%100
55	M96C	X	-.614	-.614	0	%100
56	M96C	Z	0	0	0	%100
57	M97	X	-.614	-.614	0	%100
58	M97	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	M4	X	-.607	-.607	0	%100
2	M4	Z	-.35	-.35	0	%100
3	M14	X	-.607	-.607	0	%100
4	M14	Z	-.35	-.35	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	MP4A	X	-.436	-.436	0	%100
8	MP4A	Z	-.252	-.252	0	%100
9	MP3A	X	-.436	-.436	0	%100
10	MP3A	Z	-.252	-.252	0	%100
11	MP2A	X	-.436	-.436	0	%100
12	MP2A	Z	-.252	-.252	0	%100
13	MP1A	X	-.436	-.436	0	%100
14	MP1A	Z	-.252	-.252	0	%100
15	M71	X	-.109	-.109	0	%100
16	M71	Z	-.063	-.063	0	%100
17	M80	X	-.144	-.144	0	%100
18	M80	Z	-.083	-.083	0	%100
19	M93	X	-.398	-.398	0	%100
20	M93	Z	-.23	-.23	0	%100
21	M94A	X	-.191	-.191	0	%100
22	M94A	Z	-.11	-.11	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,%]
23	M95A	X	-.766	-.766	0	%100
24	M95A	Z	-.442	-.442	0	%100
25	M96A	X	-.191	-.191	0	%100
26	M96A	Z	-.11	-.11	0	%100
27	MP4C	X	-.436	-.436	0	%100
28	MP4C	Z	-.252	-.252	0	%100
29	MP3C	X	-.436	-.436	0	%100
30	MP3C	Z	-.252	-.252	0	%100
31	MP2C	X	-.436	-.436	0	%100
32	MP2C	Z	-.252	-.252	0	%100
33	MP1C	X	-.436	-.436	0	%100
34	MP1C	Z	-.252	-.252	0	%100
35	M72	X	-.109	-.109	0	%100
36	M72	Z	-.063	-.063	0	%100
37	MP4B	X	-.436	-.436	0	%100
38	MP4B	Z	-.252	-.252	0	%100
39	MP3B	X	-.436	-.436	0	%100
40	MP3B	Z	-.252	-.252	0	%100
41	MP2B	X	-.436	-.436	0	%100
42	MP2B	Z	-.252	-.252	0	%100
43	MP1B	X	-.436	-.436	0	%100
44	MP1B	Z	-.252	-.252	0	%100
45	M87A	X	-.436	-.436	0	%100
46	M87A	Z	-.252	-.252	0	%100
47	M93C	X	-.575	-.575	0	%100
48	M93C	Z	-.332	-.332	0	%100
49	M94B	X	-.144	-.144	0	%100
50	M94B	Z	-.083	-.083	0	%100
51	DC	X	-.398	-.398	0	%100
52	DC	Z	-.23	-.23	0	%100
53	M95B	X	-.759	-.759	0	%100
54	M95B	Z	-.438	-.438	0	%100
55	M96C	X	-.759	-.759	0	%100
56	M96C	Z	-.438	-.438	0	%100
57	M97	X	-.419	-.419	0	%100
58	M97	Z	-.242	-.242	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	M4	X	-.117	-.117	0	%100
2	M4	Z	-.202	-.202	0	%100
3	M14	X	-.467	-.467	0	%100
4	M14	Z	-.809	-.809	0	%100
5	M27	X	-.117	-.117	0	%100
6	M27	Z	-.202	-.202	0	%100
7	MP4A	X	-.252	-.252	0	%100
8	MP4A	Z	-.436	-.436	0	%100
9	MP3A	X	-.252	-.252	0	%100
10	MP3A	Z	-.436	-.436	0	%100
11	MP2A	X	-.252	-.252	0	%100
12	MP2A	Z	-.436	-.436	0	%100
13	MP1A	X	-.252	-.252	0	%100
14	MP1A	Z	-.436	-.436	0	%100
15	M71	X	-.189	-.189	0	%100
16	M71	Z	-.327	-.327	0	%100
17	M80	X	0	0	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,%]
18	M80	Z	0	0	0	%100
19	M93	X	-.23	-.23	0	%100
20	M93	Z	-.398	-.398	0	%100
21	M94A	X	-.331	-.331	0	%100
22	M94A	Z	-.574	-.574	0	%100
23	M95A	X	-.331	-.331	0	%100
24	M95A	Z	-.574	-.574	0	%100
25	M96A	X	0	0	0	%100
26	M96A	Z	0	0	0	%100
27	MP4C	X	-.252	-.252	0	%100
28	MP4C	Z	-.436	-.436	0	%100
29	MP3C	X	-.252	-.252	0	%100
30	MP3C	Z	-.436	-.436	0	%100
31	MP2C	X	-.252	-.252	0	%100
32	MP2C	Z	-.436	-.436	0	%100
33	MP1C	X	-.252	-.252	0	%100
34	MP1C	Z	-.436	-.436	0	%100
35	M72	X	0	0	0	%100
36	M72	Z	0	0	0	%100
37	MP4B	X	-.252	-.252	0	%100
38	MP4B	Z	-.436	-.436	0	%100
39	MP3B	X	-.252	-.252	0	%100
40	MP3B	Z	-.436	-.436	0	%100
41	MP2B	X	-.252	-.252	0	%100
42	MP2B	Z	-.436	-.436	0	%100
43	MP1B	X	-.252	-.252	0	%100
44	MP1B	Z	-.436	-.436	0	%100
45	M87A	X	-.189	-.189	0	%100
46	M87A	Z	-.327	-.327	0	%100
47	M93C	X	-.249	-.249	0	%100
48	M93C	Z	-.431	-.431	0	%100
49	M94B	X	-.249	-.249	0	%100
50	M94B	Z	-.431	-.431	0	%100
51	DC	X	-.23	-.23	0	%100
52	DC	Z	-.398	-.398	0	%100
53	M95B	X	-.307	-.307	0	%100
54	M95B	Z	-.532	-.532	0	%100
55	M96C	X	-.504	-.504	0	%100
56	M96C	Z	-.873	-.873	0	%100
57	M97	X	-.307	-.307	0	%100
58	M97	Z	-.532	-.532	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	M14	Y	-7.059	-7.059	2.86	3.918
2	M27	Y	-3.808	-3.808	2.65	3.773
3	M94A	Y	-3.188	-4.976	1.367	3.555
4	M94A	Y	-4.976	-6.234	3.555	5.742
5	M94A	Y	-6.234	-6.497	5.742	7.93
6	M94A	Y	-6.497	-5.017	7.93	10.117
7	M94A	Y	-5.017	-2.261	10.117	12.305
8	M4	Y	-3.811	-3.811	2.697	3.773
9	M27	Y	-3.811	-3.811	2.697	3.773
10	M96A	Y	-3.3	-3.3	1.865	2.487
11	M96A	Y	-3.3	-4.95	2.487	3.108
12	M96A	Y	-4.95	-6.601	3.108	3.729

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M96A	Y	-6.601	-6.601	3.729	4.351
14	M96A	Y	-6.601	-6.601	4.351	4.972
15	M96A	Y	-6.601	-6.601	4.972	5.593
16	M96A	Y	-6.601	-6.601	5.593	6.215
17	M96A	Y	-6.601	-6.601	6.215	6.836
18	M96A	Y	-6.601	-6.601	6.836	7.457
19	M96A	Y	-6.601	-6.601	7.457	8.079
20	M96A	Y	-6.601	-6.601	8.079	8.7
21	M96A	Y	-6.601	-6.601	8.7	9.321
22	M96A	Y	-6.601	-6.601	9.321	9.942
23	M96A	Y	-6.601	-4.95	9.942	10.564
24	M96A	Y	-4.95	-3.3	10.564	11.185
25	M96A	Y	-3.3	-3.3	11.185	11.806
26	M4	Y	-3.808	-3.808	2.65	3.773
27	M95A	Y	-2.261	-5.017	1.367	3.555
28	M95A	Y	-5.017	-6.497	3.555	5.742
29	M95A	Y	-6.497	-6.234	5.742	7.93
30	M95A	Y	-6.234	-4.976	7.93	10.117
31	M95A	Y	-4.976	-3.188	10.117	12.305

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	M14	Y	-13.649	-13.649	2.86	3.918
2	M27	Y	-7.364	-7.364	2.65	3.773
3	M94A	Y	-6.165	-9.622	1.367	3.555
4	M94A	Y	-9.622	-12.055	3.555	5.742
5	M94A	Y	-12.055	-12.563	5.742	7.93
6	M94A	Y	-12.563	-9.702	7.93	10.117
7	M94A	Y	-9.702	-4.373	10.117	12.305
8	M4	Y	-7.369	-7.369	2.697	3.773
9	M27	Y	-7.369	-7.369	2.697	3.773
10	M96A	Y	-6.382	-6.382	1.865	2.487
11	M96A	Y	-6.382	-9.572	2.487	3.108
12	M96A	Y	-9.572	-12.763	3.108	3.729
13	M96A	Y	-12.763	-12.763	3.729	4.351
14	M96A	Y	-12.763	-12.763	4.351	4.972
15	M96A	Y	-12.763	-12.763	4.972	5.593
16	M96A	Y	-12.763	-12.763	5.593	6.215
17	M96A	Y	-12.763	-12.763	6.215	6.836
18	M96A	Y	-12.763	-12.763	6.836	7.457
19	M96A	Y	-12.763	-12.763	7.457	8.079
20	M96A	Y	-12.763	-12.763	8.079	8.7
21	M96A	Y	-12.763	-12.763	8.7	9.321
22	M96A	Y	-12.763	-12.763	9.321	9.942
23	M96A	Y	-12.763	-9.572	9.942	10.564
24	M96A	Y	-9.572	-6.382	10.564	11.185
25	M96A	Y	-6.382	-6.382	11.185	11.806
26	M4	Y	-7.364	-7.364	2.65	3.773
27	M95A	Y	-4.373	-9.702	1.367	3.555
28	M95A	Y	-9.702	-12.563	3.555	5.742
29	M95A	Y	-12.563	-12.055	5.742	7.93
30	M95A	Y	-12.055	-9.622	7.93	10.117
31	M95A	Y	-9.622	-6.165	10.117	12.305

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]

Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M14	Z	-.212	-.212	2.86	3.918
2	M27	Z	-.114	-.114	2.65	3.773
3	M94A	Z	-.096	-.149	1.367	3.555
4	M94A	Z	-.149	-.187	3.555	5.742
5	M94A	Z	-.187	-.195	5.742	7.93
6	M94A	Z	-.195	-.151	7.93	10.117
7	M94A	Z	-.151	-.068	10.117	12.305
8	M4	Z	-.114	-.114	2.697	3.773
9	M27	Z	-.114	-.114	2.697	3.773
10	M96A	Z	-.099	-.099	1.865	2.487
11	M96A	Z	-.099	-.149	2.487	3.108
12	M96A	Z	-.149	-.198	3.108	3.729
13	M96A	Z	-.198	-.198	3.729	4.351
14	M96A	Z	-.198	-.198	4.351	4.972
15	M96A	Z	-.198	-.198	4.972	5.593
16	M96A	Z	-.198	-.198	5.593	6.215
17	M96A	Z	-.198	-.198	6.215	6.836
18	M96A	Z	-.198	-.198	6.836	7.457
19	M96A	Z	-.198	-.198	7.457	8.079
20	M96A	Z	-.198	-.198	8.079	8.7
21	M96A	Z	-.198	-.198	8.7	9.321
22	M96A	Z	-.198	-.198	9.321	9.942
23	M96A	Z	-.198	-.149	9.942	10.564
24	M96A	Z	-.149	-.099	10.564	11.185
25	M96A	Z	-.099	-.099	11.185	11.806
26	M4	Z	-.114	-.114	2.65	3.773
27	M95A	Z	-.068	-.151	1.367	3.555
28	M95A	Z	-.151	-.195	3.555	5.742
29	M95A	Z	-.195	-.187	5.742	7.93
30	M95A	Z	-.187	-.149	7.93	10.117
31	M95A	Z	-.149	-.096	10.117	12.305

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M14	X	.212	.212	2.86	3.918
2	M27	X	.114	.114	2.65	3.773
3	M94A	X	.096	.149	1.367	3.555
4	M94A	X	.149	.187	3.555	5.742
5	M94A	X	.187	.195	5.742	7.93
6	M94A	X	.195	.151	7.93	10.117
7	M94A	X	.151	.068	10.117	12.305
8	M4	X	.114	.114	2.697	3.773
9	M27	X	.114	.114	2.697	3.773
10	M96A	X	.099	.099	1.865	2.487
11	M96A	X	.099	.149	2.487	3.108
12	M96A	X	.149	.198	3.108	3.729
13	M96A	X	.198	.198	3.729	4.351
14	M96A	X	.198	.198	4.351	4.972
15	M96A	X	.198	.198	4.972	5.593
16	M96A	X	.198	.198	5.593	6.215
17	M96A	X	.198	.198	6.215	6.836
18	M96A	X	.198	.198	6.836	7.457
19	M96A	X	.198	.198	7.457	8.079
20	M96A	X	.198	.198	8.079	8.7
21	M96A	X	.198	.198	8.7	9.321
22	M96A	X	.198	.198	9.321	9.942

Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
23	M96A	X	.198	.149	9.942	10.564
24	M96A	X	.149	.099	10.564	11.185
25	M96A	X	.099	.099	11.185	11.806
26	M4	X	.114	.114	2.65	3.773
27	M95A	X	.068	.151	1.367	3.555
28	M95A	X	.151	.195	3.555	5.742
29	M95A	X	.195	.187	5.742	7.93
30	M95A	X	.187	.149	7.93	10.117
31	M95A	X	.149	.096	10.117	12.305

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N141	N142C	N142B	N142	Y	Two Way	-.005
2	N141	N139	N114	N140C	Y	Two Way	-.005
3	N139	N142C	N140B	N141B	Y	Two Way	-.005

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N141	N142C	N142B	N142	Y	Two Way	-.01
2	N141	N139	N114	N140C	Y	Two Way	-.01
3	N139	N142C	N140B	N141B	Y	Two Way	-.01

Member Area Loads (BLC 84 : Structure Ev)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N141	N142C	N142B	N142	Y	Two Way	0
2	N141	N139	N114	N140C	Y	Two Way	0
3	N139	N142C	N140B	N141B	Y	Two Way	0

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N141	N142C	N142B	N142	Z	Two Way	-.000156
2	N141	N139	N114	N140C	Z	Two Way	-.000156
3	N139	N142C	N140B	N141B	Z	Two Way	-.000156

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N141	N142C	N142B	N142	X	Two Way	.000156
2	N141	N139	N114	N140C	X	Two Way	.000156
3	N139	N142C	N140B	N141B	X	Two Way	.000156

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	N3	max	730.021	10	346.701	19	3566.267	1	.423	13	1.544	4	.213	4
2		min	-730.748	4	74.079	1	-1737.764	7	.022	7	-1.538	10	-.245	10
3	N14	max	2910.605	9	344.316	15	755.687	2	.134	12	1.735	12	.041	5
4		min	-1339.339	3	81.259	9	-1663.808	8	-.334	6	-1.736	6	-.355	23
5	N26	max	1228.126	11	177.471	23	767.304	12	-.023	50	1.539	8	.269	23
6		min	-2808.803	5	-.583	50	-1677.617	6	-.155	23	-1.536	2	.041	50
7	N144C	max	39.423	10	2160.781	13	-970.161	7	0	75	0	12	0	6
8		min	-39.41	4	642.294	7	-3239.783	13	0	1	0	6	0	12
9	N146D	max	-873.131	3	2152.997	21	1613.898	21	0	10	0	4	0	4
10		min	-2795.352	21	666.992	3	504.023	3	0	4	0	10	0	10

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
11	N148A	max	2799.961	17	2156.44	17	1616.518	17	0	12	0	12	0	12
12		min	898.125	11	685.829	11	518.686	11	0	6	0	6	0	6
13	Totals:	max	3767.518	10	7025.773	21	4108.329	1						
14		min	-3767.515	4	2556.289	65	-4108.326	7						

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

	Member	Shape	Code Check	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pn...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
1	M4	HSS4X4X3	.247	5.79	22	.069	4.68	y	13	84582....	106812	12.662	12.662	2...	H1-1b
2	M14	HSS4X4X3	.262	5.79	6	.069	4.68	y	21	84582....	106812	12.662	12.662	2...	H1-1b
3	M27	HSS4X4X3	.254	5.79	2	.069	4.68	y	17	84582....	106812	12.662	12.662	2...	H1-1b
4	MP4A	PIPE_2.0	.222	4.25	21	.053	4.25		11	13511....	32130	1.872	1.872	1...	H1-1b
5	MP3A	PIPE_2.0	.259	4.25	11	.057	4.25		8	13511....	32130	1.872	1.872	1...	H1-1b
6	MP2A	PIPE_2.0	.309	4.339	1	.055	4.25		12	13511....	32130	1.872	1.872	2...	H1-1b
7	MP1A	PIPE_2.0	.273	4.25	5	.065	4.25		6	13511....	32130	1.872	1.872	1...	H1-1b
8	M71	PIPE_2.0	.227	8.972	7	.069	11.535		6	5262.5...	32130	1.872	1.872	3...	H1-1b
9	M80	L2.5x2.5x4	.209	2.094	11	.013	2.094	z	11	33413....	38556	1.114	2.537	1...	H2-1
10	M93	PIPE_2.0	.147	3.333	12	.013	3.333		12	26521....	32130	1.872	1.872	1...	H1-1b
11	M94A	HSS4X4X3	.209	0	1	.059	13.672	y	19	50342....	106812	12.662	12.662	2...	H1-1b
12	M95A	HSS4X4X3	.207	0	5	.057	13.672	y	23	50342....	106812	12.662	12.662	2...	H1-1b
13	M96A	HSS4X4X3	.210	0	9	.058	13.672	y	15	50342....	106812	12.662	12.662	2...	H1-1b
14	MP4C	PIPE_2.0	.222	4.25	6	.054	4.25		7	13511....	32130	1.872	1.872	1...	H1-1b
15	MP3C	PIPE_2.0	.267	4.25	7	.055	4.25		4	13511....	32130	1.872	1.872	1...	H1-1b
16	MP2C	PIPE_2.0	.309	4.339	3	.057	1.505		1	13511....	32130	1.872	1.872	1...	H1-1b
17	MP1C	PIPE_2.0	.280	4.25	1	.066	4.25		2	13511....	32130	1.872	1.872	1...	H1-1b
18	M72	PIPE_2.0	.230	8.972	3	.066	11.535		2	5262.5...	32130	1.872	1.872	3...	H1-1b
19	MP4B	PIPE_2.0	.228	4.25	1	.051	4.25		3	13511....	32130	1.872	1.872	1...	H1-1b
20	MP3B	PIPE_2.0	.258	4.25	2	.062	4.25		12	13511....	32130	1.872	1.872	1...	H1-1b
21	MP2B	PIPE_2.0	.306	4.339	12	.054	1.771		7	13511....	32130	1.872	1.872	2...	H1-1b
22	MP1B	PIPE_2.0	.275	4.25	8	.065	4.25		11	13511....	32130	1.872	1.872	1...	H1-1b
23	M87A	PIPE_2.0	.223	8.972	11	.063	11.535		10	5262.5...	32130	1.872	1.872	3...	H1-1b
24	M93C	L2.5x2.5x4	.225	2.094	12	.015	2.094	z	43	33413....	38556	1.114	2.537	1...	H2-1
25	M94B	L2.5x2.5x4	.225	2.094	2	.013	2.094	z	3	33413....	38556	1.114	2.537	1...	H2-1
26	DC	PIPE_2.0	.147	3.333	6	.013	3.333		6	26521....	32130	1.872	1.872	1...	H1-1b
27	M95B	LL3x3x3x0	.079	5.504	13	.003	5.504	y	12	49434....	70632	4.823	3.741	1	H1-1b*
28	M96C	LL3x3x3x0	.078	5.504	21	.003	0	y	10	49434....	70632	4.823	3.741	1	H1-1b*
29	M97	LL3x3x3x0	.079	5.504	17	.003	0	y	6	49434....	70632	4.823	3.741	1	H1-1b*

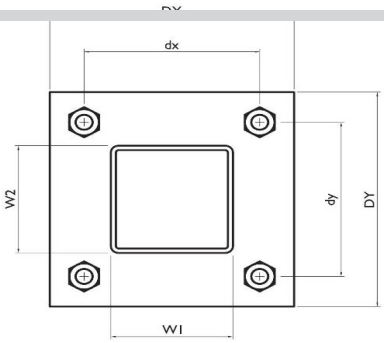
VzW SMART Tool© Vendor

Client:	Verizon Wireless	Date:	3/4/2022
Site Name:	W Greenwich Ct		
PSLC #:	468052		
Fuze ID #:	16244187	Page:	1

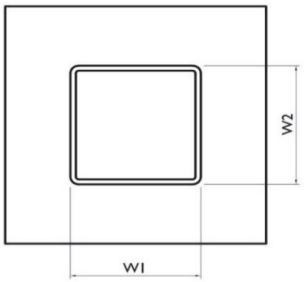
Version 1.0

I. Mount-to-Tower Connection Check

Custom Orientation Required	No
Tower Connection Bolt Checks	Yes
Bolt Orientation	Parallel
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)*:	3
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	8
Bolt Type:	A325N
Bolt Diameter (in):	0.5
Required Tensile Strength / bolt (kips):	3.8
Required Shear Strength / bolt (kips):	0.3
Tensile Capacity / bolt (kips):	13.3
Shear Capacity / bolt (kips):	8.0
Bolt Overall Utilization:	**29.0%**



Tower Connection Baseplate Checks	Yes
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, D_x (in):	6
Plate Height, D_Y (in):	10
W1(in):	3
W2 (in):	3
Member Thickness (in):	0.25
Stiffener location a_1 (in):	
Stiffener location b_1 (in):	
Stiffener location a_2 (in):	
Stiffener location b_2 (in):	
F_y (ksi, plate):	36
Plate Thickness (in):	0.5
Length of Yield Line, L_y (in):	5.59
Bolt Eccentricity, e (in):	2.50
M_u (kip-in):	9.61
Phi*M_n (kip-in):	11.31
Plate Bending Utilization:	**84.9%**

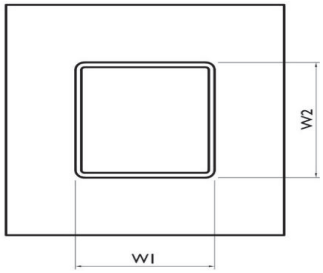


Client:	Verizon Wireless	Date:	3/4/2022
Site Name:	W Greenwich Ct		
PSLC #:	468052		
Fuze ID #:	16244187	Page:	2

Version 1.0

Tower Connection Weld Checks

	Yes
Weld Shape:	Rectangle
Weld Stiffener Configuration:	None
Stiffner Notch Length, n (in):	
Weld Size (1/16 in):	4
W1 (in):	3
W2 (in):	3
Weld Total Length (in):	12.00
Z_x (in^3/in):	12.00
Z_y (in^3/in):	12.00
J_p (in^4/in):	36.00
c_x (in)	1.75
c_y (in)	1.75
Required combined strength (kip/in):	1.34
Weld Capacity (kip/in):	5.57
Weld Utilization:	**24.1%**



Maser Consulting Connecticut

Subject	TIA-222-H Usage
Site Information	Site ID: 468052-VZW / W GREENWICH CT Site Name: W GREENWICH CT Carrier Name: Verizon Wireless Address: 363 Riverville Rd. Greenwich, Connecticut 06831 Fairfield County Latitude: 41.06621° Longitude: -73.67124°
Structure Information	Tower Type: 163-Ft Monopole Mount Type: 142-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. 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 maps 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 methods, seismic analysis, 30-degree increment wind directions 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,

Dejian Xu

Dejian Xu, PE
Technical Manager

Exhibit F

Power Density/RF Emissions Report

Site Name: ***W GREENWICH 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	591	2365	141	0.0043	0.5007	0.85%
VZW CDMA	876.03	2	499	998	141	0.0018	0.5840	0.31%
VZW Cellular	874	4	824	3297	141	0.0060	0.5827	1.02%
VZW PCS	1980	4	1525	6099	141	0.0110	1.0000	1.10%
VZW AWS	2120	4	1564	6254	141	0.0113	1.0000	1.13%
VZW CBRS	3625	4	10	41	141	0.0001	1.0000	0.01%
VZW CBAND	3730.08	2	12190	24380	141	0.0441	1.0000	4.41%
Total Percentage of Maximum Permissible Exposure								8.84%

*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

UNITED STATES POSTAL SERVICE®

Click-N-Ship®

9405 5036 9930 0280 4013 74 0089 5000 0010 1581

usps.com
$8.95
US POSTAGE
Flat Rate Env

06/23/2022

Mailed from 01566

U.S. POSTAGE PAID
Click-N-Ship®

PRIORITY MAIL 1-DAY™

DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Expected Delivery Date: 06/24/22
Ref#: CR-841290

0006

C006

CROWN CASTLE
1800 W PARK DR
WESTBOROUGH MA 01581-3926

USPS TRACKING #

9405 5036 9930 0280 4013 74

Electronic Rate Approved #038555749

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 0280 4013 74

Trans. #:	566208681
Print Date:	06/23/2022
Ship Date:	06/23/2022
Expected Delivery Date:	06/24/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

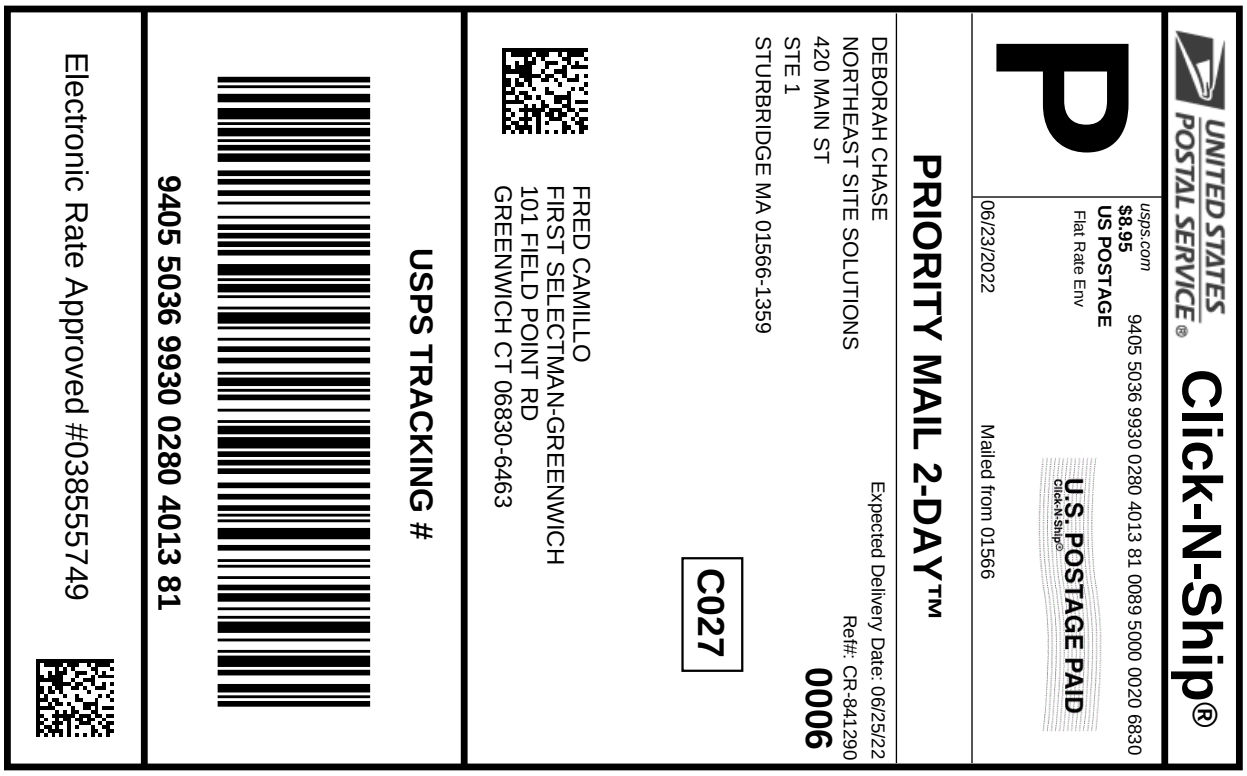
Ref#: CR-841290

To: CROWN CASTLE
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.

UNITED STATES POSTAL SERVICE®

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

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 0280 4013 81

Trans. #:	566208681
Print Date:	06/23/2022
Ship Date:	06/23/2022
Expected Delivery Date:	06/25/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

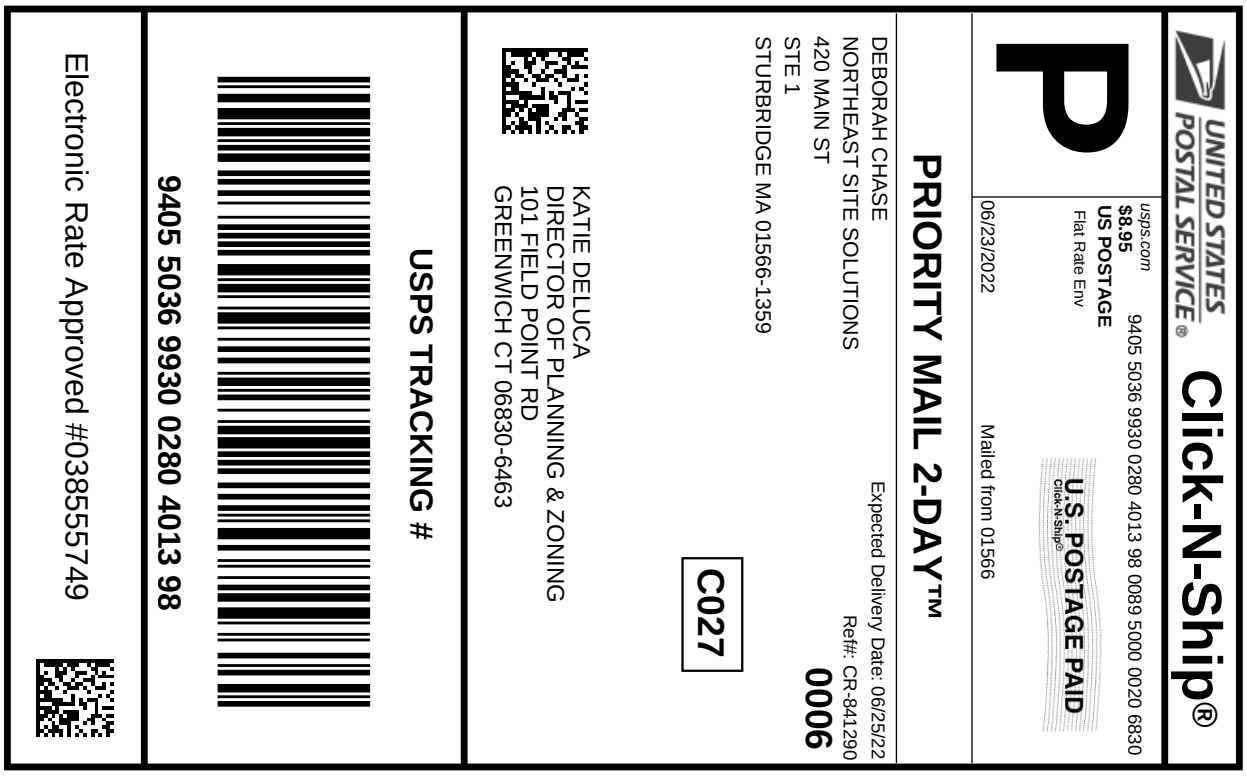
From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: CR-841290

To: FRED CAMILLO
FIRST SELECTMAN-GREENWICH
101 FIELD POINT RD
GREENWICH CT 06830-6463

* 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

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.**
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5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0280 4013 98

Trans. #:	566208681
Print Date:	06/23/2022
Ship Date:	06/23/2022
Expected Delivery Date:	06/25/2022

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-841290

To: KATIE DELUCA
DIRECTOR OF PLANNING & ZONING
101 FIELD POINT RD
GREENWICH CT 06830-6463

* 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!
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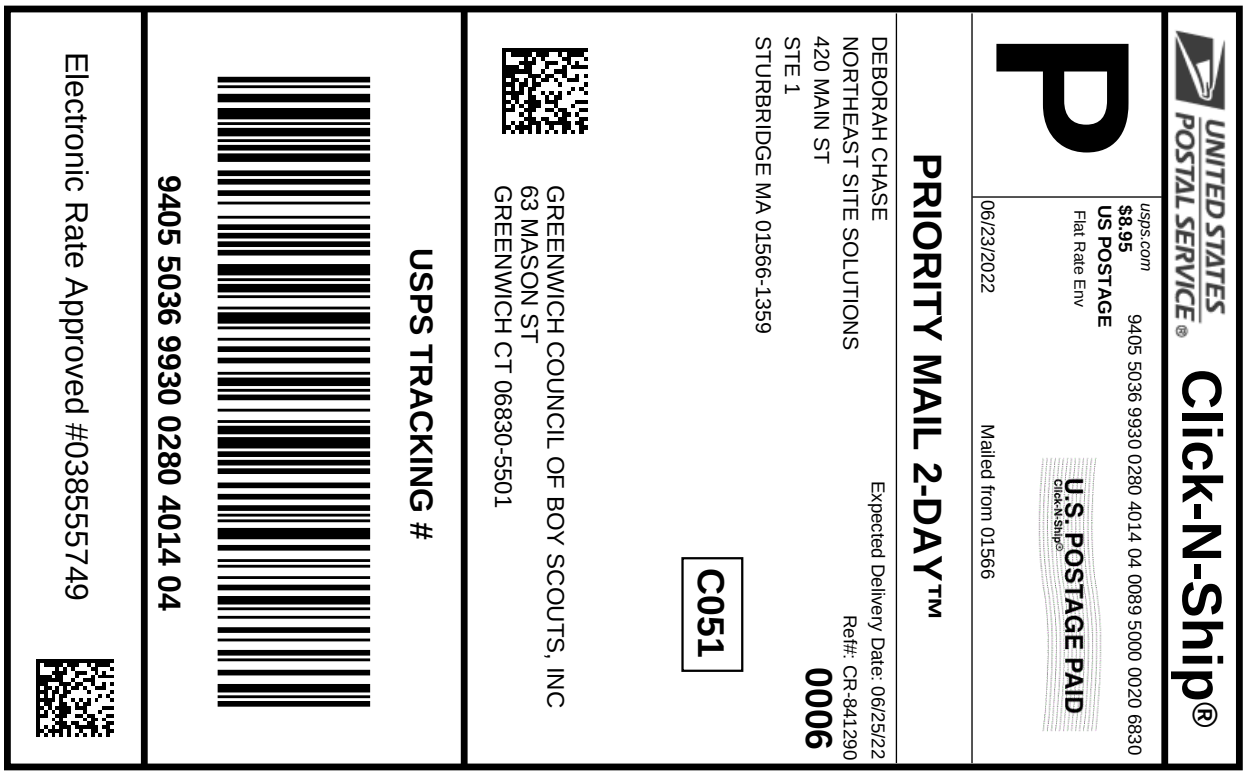

Cut on dotted line.

Instructions

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5. **Mail your package on the "Ship Date" you selected when creating this label.**

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0280 4014 04

Trans. #:	566208681
Print Date:	06/23/2022
Ship Date:	06/23/2022
Expected Delivery Date:	06/25/2022

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-841290

To: GREENWICH COUNCIL OF BOY SCOUTS, INC
63 MASON ST
GREENWICH CT 06830-5501

* 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

841290 Crown VZW

UNITED STATES POSTAL SERVICE.

FARMINGTON
210 MAIN ST
FARMINGTON, CT 06032-9998
(800)275-8777

06/23/2022 04:40 PM

Product	Qty	Unit Price	Price
Prepaid Mail Westborough, MA 01581 Weight: 0 lb 2.00 oz Acceptance Date: Thu 06/23/2022 Tracking #: 9405 5036 9930 0280 4013 74	1		$0.00
Prepaid Mail Greenwich, CT 06830 Weight: 0 lb 10.60 oz Acceptance Date: Thu 06/23/2022 Tracking #: 9405 5036 9930 0280 4014 04	1		$0.00
Prepaid Mail Greenwich, CT 06830 Weight: 0 lb 10.60 oz Acceptance Date: Thu 06/23/2022 Tracking #: 9405 5036 9930 0280 4013 81	1		$0.00
Prepaid Mail Greenwich, CT 06830 Weight: 0 lb 10.60 oz Acceptance Date: Thu 06/23/2022 Tracking #: 9405 5036 9930 0280 4013 98	1		$0.00
Grand Total:			$0.00

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eligible to receive a third set
of 8 free test kits.
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Track your Packages
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