



Filed by:

G. Scott Shepherd, Site Development Specialist II - SBA Communications
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x 3807 - GShepherd@sbsite.com

March 5, 2021

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

Notice of Exempt Modification

206 Everett Rd., Easton, CT 06612

Latitude : 41.290333

Longitude : -73.282666

Sprint, now a part of T-Mobile USA #: CT11949A_Anchor

Dear Ms. Bachman:

Sprint, now a part of T-Mobile USA, hereinafter referred to as "Sprint/T-Mobile", currently maintains (9) antennas at the 138-foot level of the existing 158-foot Monopole Tower at 206 Everett Rd., Easton, CT. The tower is owned by SBA 2012 TC Assets, LLC. The property is owned by David and Joan D. Barney. Sprint/T-Mobile plans to remove (6) six L700/1900 MHz antennas and replace with (6) six new 2100 MHz and 2500MHz antennas and install (3) three 2100 MHz antenna for a total of nine (9) antennas.

The new antennas would support 5G services and would be installed at the 138-foot level of the tower.

Please note: Per the Connecticut Siting Council Website: CSC COVID 19 Guidelines.

In order to prevent the spread of Coronavirus and protect the health and safety of our members and staff, as of March 18, 2020, the Connecticut Siting Council shall convert to full remote operations until March 30, 2020. Please be advised that during this time period, all hard copy filing requirements will be waived in lieu of an electronic filing. Please also be advised that the March 26, 2020 regular meeting shall be held via teleconference. The Council's website is not equipped with an on-line filing fee receipt service. Therefore, filing fees and/or direct cost charges associated with matters received electronically during the above-mentioned time period will be directly invoiced at a later date.

Planned Modifications:

TOWER

Remove:

- N/A

Remove and Replace:

- (3) Commscope LNX-6515DS-A1M L700 MHz (Remove) – (3) Ericsson AIR6449 B41 2500 MHz Antenna (Replace)
- (3) RFS APXV18-206516S-A20 1900 MHz (remove) – (3) RFS APXVAALL24-43-U-NA20 2100 MHz (replace)

Install New:

- (3) APX16DW-16DWV-S-E-A20 2100 MHz antenna
- (3) Ericsson 4449 B71 + B85 RRUs
- (3) Ericsson 4424 B25 RRUs
- (3) Ericsson 4415 B66A RRUs
- (3) 1-1/4" fiber

Existing Equipment to Remain:

- (1) Low Profile Platform w/HRK & V-Brace Tie-back
- (3) Kathrein 782 11056 Bias Ts

Entitlements:

- (3) APX16DW-16DWV-S-E-A20 2100 MHz antenna
- (3) Ericsson KRY 112 144/1 TMAs
- (12) 1-1/4" Coax

GROUND

Install New:

- Equipment inside existing RBS6201 equipment cabinet
- (2) Ericsson B160 Battery Cabinet on existing concrete pad
- (5) 2" conduit

Existing Equipment to Remain:

- (1) 1/2" Coax for GPS antenna
- (1) RBS 6201 Equipment cabinet
- PTS 8003 Battery Cabinet

Remove:

- Nortel s12000 equipment cabinet

This facility was approved by the Town of Easton's Planning & Zoning Commission at its regular meeting of September 27, 1999 under #Z1996862361 for Special Permit (attached) for Wireless Telecommunication Tower before court decisions gave jurisdiction to the Connecticut Siting Council. In its approval the Town provided for a 40-foot extension to accommodate future carriers interested in sharing the site. This extension in the Town's opinion, was preferable to having additional towers built. The Connecticut Siting Council later approved the Tower on June 30, 2003 under Petition No. 627T (attached). The following stipulations were set forth by the Town of Haddam's P & Z Commission: The Tower be constructed as to permit the installation of antenna€ that may be required by up to and including three additional Providers; 20 shall furnish a bond to this Commission in the amount of \$25,000 to assure timely completion of any such additions or modifications; 30 Within ten-days following receipt of a request from any other Provider to install their antenna€ on the Tower, Nextel shall notify this Commission of such request in the event of denial of any such request, a written report to this Commission in a timely manner specifying in detail the reason(s) for such denial. There were no other post construction stipulations made. Please see attached.



Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16.50j-72(b)(2). In accordance with R.C.S.A. § 16.50j-73, a copy of this letter is being sent to the Town of Beacon Falls' First Selectman, Christopher Bielik, and Zoning Enforcement Officer, Mike Mormile, as well as to the property owner. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

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 modification 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 modification 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, T-Mobile respectfully submits that the proposed modifications to the above-referenced telecommunication facility constitute an exempt modifications under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

G. Scott Shepherd
Site Development Specialist II
SBA COMMUNICATIONS CORPORATION
134 Flanders Rd., Suite 125
Westborough, MA 01581
508.251.0720 x3804 + T
508.366.2610 + F
508.868.6000 + C
GShepherd@sbsite.com

Attachments

cc: Town Clerk Christine Halloran, CCTC, CMC / with attachments
Town of Easton, 225 Center Rd., Easton, CT 06612
 Thomas Maisano, Planning & Zoning Commission / with attachments
Town of Easton, 225 Center Rd., Easton, CT 06612
 David Barney and Joan D. Barney / with attachments
196 Everett Rd., Easton, CT 06612 (SBA remittance address on file)

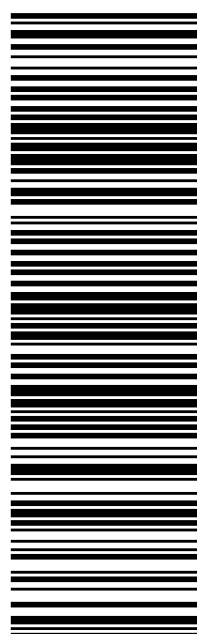
Exhibit List

Exhibit 1	Check Copy	To be invoiced at a later date per Covid guidelines
Exhibit 2	Notification Receipts	X
Exhibit 3	Property Card	X
Exhibit 4	Property Map	X
Exhibit 5	Original Zoning Approval	Town of Easton P&Z 9/27/99, CSC Petition No. 627T 6/30/03
Exhibit 6	Construction Drawings	Chappell Engineering 3/1/21
Exhibit 7	Structural Analysis	TES 12/2/20
Exhibit 8	Antenna Mount Analysis	TES 11/30/20
Exhibit 10	EME Report	EBI Consulting 3/4/21

EXHIBIT 1

Normally, Exhibit 1
would contain a copy of
the check for the filing
fee.

EXHIBIT 2

ORIGIN ID: BFFA (508) 614-0389 RICK WOODS SBA COMMUNICATIONS CORPORATION 134 FLANDERS RD SUITE 125 WESTBOROUGH, MA 01581 UNITED STATES US		SHIP DATE: 05MAR21 ACTWGT: 1.00 LB CAD: 105843304/NET4340 BILL SENDER
TO MELANIE A. BACHMAN EXEC. DIR CONNECTICUT SITING COUNCIL TEN FRANKLIN SQUARE		
NEW BRITAIN CT 06051 (508) 251-0720 X 3807 REF: 1056-92009-6089 INV: DEPT:		
		
		
TRK# 7730 8268 5765 MON - 08 MAR 10:30A 0201 PRIORITY OVERNIGHT SEBDLA CT-US BDL 06051 		

56DJ3/AC39/FE4A

After printing this label:

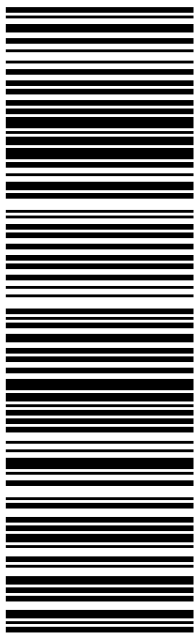
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

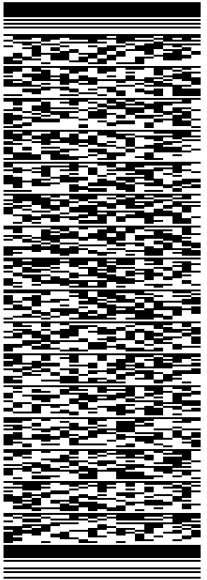
Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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

ORIGIN ID: BFFA (508) 614-0389 RICK WOODS SBA COMMUNICATIONS CORPORATION 134 FLANDERS RD SUITE 125 WESTBOROUGH, MA 01581 UNITED STATES US		SHIP DATE: 05MAR21 ACTWGT: 1.00 LB CAD: 105843304/NET4340
TO CHRISTINE HALLORAN, CTC, CMC TOWN OF EASTON TOWN CLERK 225 CENTER RD. EASTON CT 06612 (508) 251-0720 X 3807 INV: REF: 1056-92009-6089 PO: DEPT:		BILL SENDER

TRK# 7730 8272 3255 0201	MON - 08 MAR 10:30A PRIORITY OVERNIGHT
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SE OXCA CT-US BDL 06612	
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After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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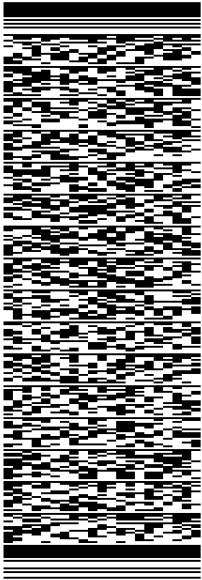
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TO THOMAS MAISANO TOWN OF EASTON PLANNING & ZONE COMMISSION 225 CENTER RD. EASTON CT 06612 (508) 251-0720 X 3807 INV: REF: 1056-92009-6089 PO: DEPT:		BILL SENDER

TRK# 7730 8275 2505
 0201
SE OXCA
 CT-US BDL
 06612

MON - 08 MAR 10:30A
 PRIORITY OVERNIGHT



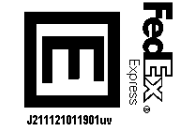
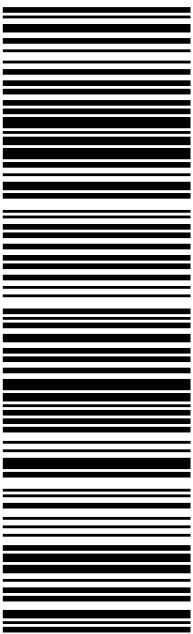

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TO		
DAVID & JOAN BARNEY 196 EVERETTE RD. EASTON CT 06612 (508) 251-0720 X 3807 REF: 1056-92009-6089 INV: DEPT:		
 		
TRK# 7730 8278 1144 0201	MON - 08 MAR 10:30A PRIORITY OVERNIGHT	
SE OXCA CT-US BDL 06612 		

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EXHIBIT 3

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2016.



Easton, CT

Information on the Property Records for the Municipality of Easton was last updated on 3/5/2021.

Parcel Information

Location:	206 EVERETT ROAD	Property Use:	Residential	Primary Use:	Residential
Unique ID:	00010600	Map Block Lot:	9610 9611 1	Acres:	37.30
490 Acres:	34.19	Zone:	R3	Volume / Page:	0681/0372
Developers Map / Lot:		Census:	1052		

Value Information

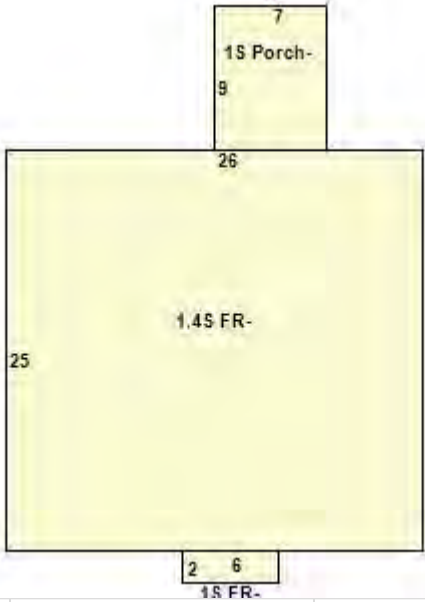
	Appraised Value	Assessed Value
Land	729,122	375,680
Buildings	173,802	121,660
Detached Outbuildings	98,882	69,220
Total	1,001,806	566,560

Owner's Information

Owner's Data

BARNEY JOAN 1/2 INT & BARNEY DAVID 1/2
108 HIRAM HILL ROAD
MONROE, CT 06468

Building 1



Building Use:	Single Family	Style:	Cape	Living Area:	922
Stories:	1.40	Construction:	Wood Frame	Year Built:	1948
Total Rooms:	5	Bedrooms:	3	Full Baths:	1

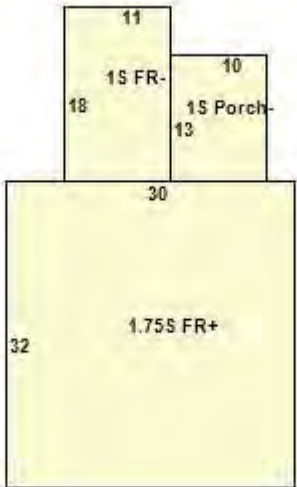
Half Baths:	0	Fireplaces:	0	Heating:	Hot Water
Fuel:	Oil	Cooling Percent:	0	Basement Area:	0
Basement Finished Area:	0	Basement Garages:	0	Roof Material:	Asphalt
Siding:	Clapboards/Stucco	Units:			

Special Features

Attached Components

Type:	Year Built:	Area:
Enclosed Porch	1948	63

Building 2



Building Use:	Single Family	Style:	Salt Box	Living Area:	1,878
Stories:	1.75	Construction:	Wood Frame	Year Built:	1934
Total Rooms:	8	Bedrooms:	3	Full Baths:	1
Half Baths:	1	Fireplaces:	2	Heating:	Hot Water
Fuel:	Oil	Cooling Percent:	0	Basement Area:	960
Basement Finished Area:	0	Basement Garages:	0	Roof Material:	Asphalt
Siding:	Wood Shingles	Units:			

Special Features

Attached Components

Type:	Year Built:	Area:
Dormer Dormer	1934	12
Enclosed Porch	1934	130

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
1 Story Frame Barn	1900	21.00	27.00	567
1 Story Frame Barn	1900	16.00	21.00	336
1 Story Masonry Barn	1966	38.00	70.00	2,660
Det 1 Story Frame Garage	1944	13.00	23.00	299
Det 1 Story Frame with Loft Garage	1934	19.00	20.00	380
Average Shed	1934	12.00	22.00	264
Frame Shed	2009	20.00	10.00	200

Owner History - Sales

Owrner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
BARNEY JOAN 1/2 INT & BARNEY DAVID 1/2	0681	0372	06/11/2019	Probate	No	\$0
BARNEY JOAN 1/2 INT & BARNEY DAVID 1/2	0674	1188	11/08/2017	Certificate of Devise	No	\$0
BARNEY ALFRED	0645	0931	01/11/2012	Quit Claim	No	\$0
BARNEY FAMILY TRUST THE	0121	0208	12/16/1991		No	\$0
BARNEY ALFRED N & DOROTHY M SURV	0037	0312	02/14/1961	Warranty Deed	No	\$18,000

Building Permits

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
15745	Cell Tower	04/18/2018		Needs Visit	REPLACE 3 OUTDATED ANTENNAS SBA-SPRINT
15350	Cell Tower	03/10/2017		CC Needed	REMOVE 9 CELL ANTENNAS-REPLACE W 6
13790	Mechanical	05/03/2013		Closed	MODIFY SPRINT EQUIPMENT ON TOWER
13039	Cell Tower	07/01/2011		Closed	ADD 3 LTE ANTENNAS TO EXISTING PLATFORM, ADD 6 RR4 TO MOUNTED MONOPOLE
12325	Commercial	05/11/2009		Closed	ANTENNAS ON EXIST TOWER 10X20 EQUIPMENT SHELTER W/GENERATOR

Information Published With Permission From The Assessor

EXHIBIT 4



Easton, CT

Map Title



Legend

- Parcels
- Streetname
- Roadways
 - Local
 - Collector
 - Minor Collector
 - Minor Arterial
 - Major Collector
 - PA Other
 - PA Other Expwy
 - PA Interstate
- Town Boundary
- Citations

1: 13,627

2,271.2 0 1,135.58 2,271.2 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere
Created by Greater Bridgeport Regional Council

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

EXHIBIT 5



EASTON PLANNING & ZONING COMMISSION

225 CENTER ROAD

EASTON, CT., 06612

CERTIFIED MAIL
RECEIPT #Z1996862361

September 29, 1999

NEXTEL COMMUNICATIONS OF THE
MID-ATLANTIC d/b/a NEXTEL COMMUNICATIONS
100 Corporate Place
Rocky Hill, Connecticut 06067

Attention: Susan Bellion

RE: SP-99-05, NEXTEL CUMMUNICATIONS OF THE MID-ATLANTIC, INC.
d/b/a NEXTEL COMMUNICATIONS, Location: 206 Everett Road,
Map 9601, Block 1, District B

Dear Ms. Bellion:

Please be advised that the Easton Planning & Zoning Commission, at its regular meeting of September 27, 1999 voted to APPROVE your application for Special Permit for Wireless Telecommunication Tower at the above site with the stipulations and modifications set forth in EXHIBIT A, attached hereto and part of this letter.

Upon receipt of this letter, this original copy and all attached exhibits must be filed in the Easton land records at the applicant's expense. The effective date of this decision is October 15, 1999.

Yours truly,

EASTON PLANNING & ZONING COMMISSION

by Robert Maquat
Robert Maquat, Acting Chairman

RM:ma

cc: Attorney Daniel Leary, Cuddy & Feder & Worby

EXHIBIT A

RE: SP-99-05, Special Permit for Wireless Telecommunication Tower by
Nextel Communications of the Mid-Atlantic Inc. d/b/a
Nextel Communications, Location: 206 Everett Road
9/27/99

The stipulations and modifications set forth below are an integral part of the approval of the subject-named Special Permit application for construction of a Tower for mounting of Telecommunication Antenna(e). Special Permit plans and design information shall be revised to meet the following:

1. the Tower be constructed as to permit the installation of antenna(e) that may be required by up to and including three additional Providers as defined in Section 7.10.2 of the Easton Zoning Regulations, with the construction to accommodate such additional Provider(s) to be completed either
 - (a) in the initial Tower construction, or
 - (b) by means of structural addition or other modification to the initial Tower construction in a timely manner when any such additional Provider(s) request(s) installation of their antenna(e) on the Tower; and,
2. In the event that Nextel constructs the Tower initially to permit subsequent addition of modification pursuant to 1(b) above, then Nextel shall furnish a bond to this Commission in the amount of \$25000 to assure timely completion of any such addition or modification, such bond to be released by the Town on either a) completion of any such additions or modifications to accommodate three Providers in addition to Nextel, or b) the expiration of five years following the effective date of this approval, whichever shall first occur; and,
3. Within ten days following receipt of a request from any other Provider to install their antenna(e) on the Tower, Nextel shall notify this Commission of such request and in the event of denial of any such request, Nextel shall submit a written report to this Commission in a timely manner specifying in detail the reason(s) for such denial.

EASTON PLANNING & ZONING COMMISSION

by Robert Maquat
Robert Maquat
Acting Chairman

RECEIVED FOR RECORD NOVEMBER 5, 1999
AT 9:51 PM ATTEST Elizabeth A. London
EASTON TOWN CLERK



NOTICE OF ZONING PERMIT EASTON, CONN.

PERMIT NO. 2-99-1704 DATE April 26, 2000

GRANTED TO The Barney Family Trust, Alfred Barney, Dorothy Barney

LOCATION 206 Everett Road

TO ECTOR BUILD 7'2" x 11'2" unmanned prefabricated equipment

~~NOTICE~~ shelter monopole, (capable of supporting four carriers).

CERTIFIED PLOT PLAN REQUIRED
BEFORE CONSTRUCTION OF BUILDING
ON FOUNDATION
ART. IX PAR. 824

Z.E.O. FOR PLANNING AND ZONING COMMISSION
Phillip Doremus

5.1.00 Barney Family, 2-27-00

This permit is based on information submitted with your application. If any changes or alterations are to be made which are not covered in the initial application, then a new and additional permit should be obtained.

This Notice should be posted in a conspicuous place where it is readily visible to the enforcement authority during the entire time required to complete the work.



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

CERTIFIED MAIL RETURN RECEIPT REQUESTED

June 30, 2003

Thomas J. Regan, Esq.
Brown Rudnick Berlack Israels LLP
185 Asylum Street, CityPlace I
Hartford, CT 06103-3402

RE: **PETITION NO. 627T** - Sprint Spectrum L.P. and Omnipoint Facilities Network 2, L.L.C.
petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public
Need is required for the proposed modifications to an existing telecommunications facility
located at 206 Everett Road, Easton, Connecticut.

Dear Attorney Regan:

At a public meeting held on June 19, 2003, the Connecticut Siting Council (Council) considered and ruled that this proposal would not have a substantial adverse environmental effect, and pursuant to General Statutes § 16-50k would not require a Certificate of Environmental Compatibility and Public Need.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition, dated May 7, 2003.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,

Pamela B. Katz, P.E.
Chairman

PBK/laf

Enclosure: Staff Report dated June 19, 2003

c: Honorable William J. Kupinse, First Selectman, Town of Easton
Planning and Zoning Official, Town of Easton



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

Staff Report

Petition 627: Sprint

206 Everett Road, Easton

June 19, 2003

On June 11, 2003, Council member Ed Wilensky and staff member David Martin visited 206 Everett Road in Easton, the subject property of this Petition. Also present were several representatives of the companies party to the Petition: Tom Regan and Jason Pintek, representing Sprint, Stephen Humes and Jerry Aquino, representing T-Mobile, and Tom Flynn, representing the tower owner, Nextel.

The facility currently consists of a 120-foot tall monopole on which Nextel and AT&T have located antennas. The petition, jointly submitted by Sprint Spectrum and VoiceStream, seeks to extend the monopole an additional 38 feet to an overall height of 158 feet. Sprint would locate its antennas at the 158' level. Nextel would move its antennas from 118' to 148', and VoiceStream would install antennas at 138'. Sprint would also attach a GPS antenna at 65'.

The site is located in on a farm in a rural residential area. Existing vegetation screens the tower from most of its neighbors. It is visible only for a short distance on Everett Road.

The existing monopole was originally approved by the Town of Easton in 1999, before court decisions gave jurisdiction to the Council. In its approval, the town provided for a 40-foot extension to accommodate future carriers interested in sharing the site. This extension, in the town's opinion, was preferable to having additional towers built. In a phone conversation with Mr. Martin, the town's land use director confirmed that the original site approval provided for the tower's future extension and that the town had no concerns about the current proposal.

At staff's request, Sprint notified abutting property owners of its pending petition via certified mail.

Based on the facility's existing conditions and the town's original approval that foresaw the need to extend the tower, Sprint's and VoiceStream's petition is not expected to create any adverse environmental impacts.

EXHIBIT 6

NEXTEL TOWER EXTENSION

APPROVALS

PROJECT MANAGER:	DATE:	ZONING/SITE ACQ.:	DATE:
CONSTRUCTION:	DATE:	OPERATIONS:	DATE:
RF ENGINEERING:	DATE:	TOWER OWNER:	DATE:

T-MOBILE TECHNICIAN SITE SAFETY NOTES

LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS BY CERTIFIED CLIMBER
SECTOR B:	ACCESS BY CERTIFIED CLIMBER
SECTOR C:	ACCESS BY CERTIFIED CLIMBER
SECTOR D:	ACCESS BY CERTIFIED CLIMBER
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

GENERAL NOTES

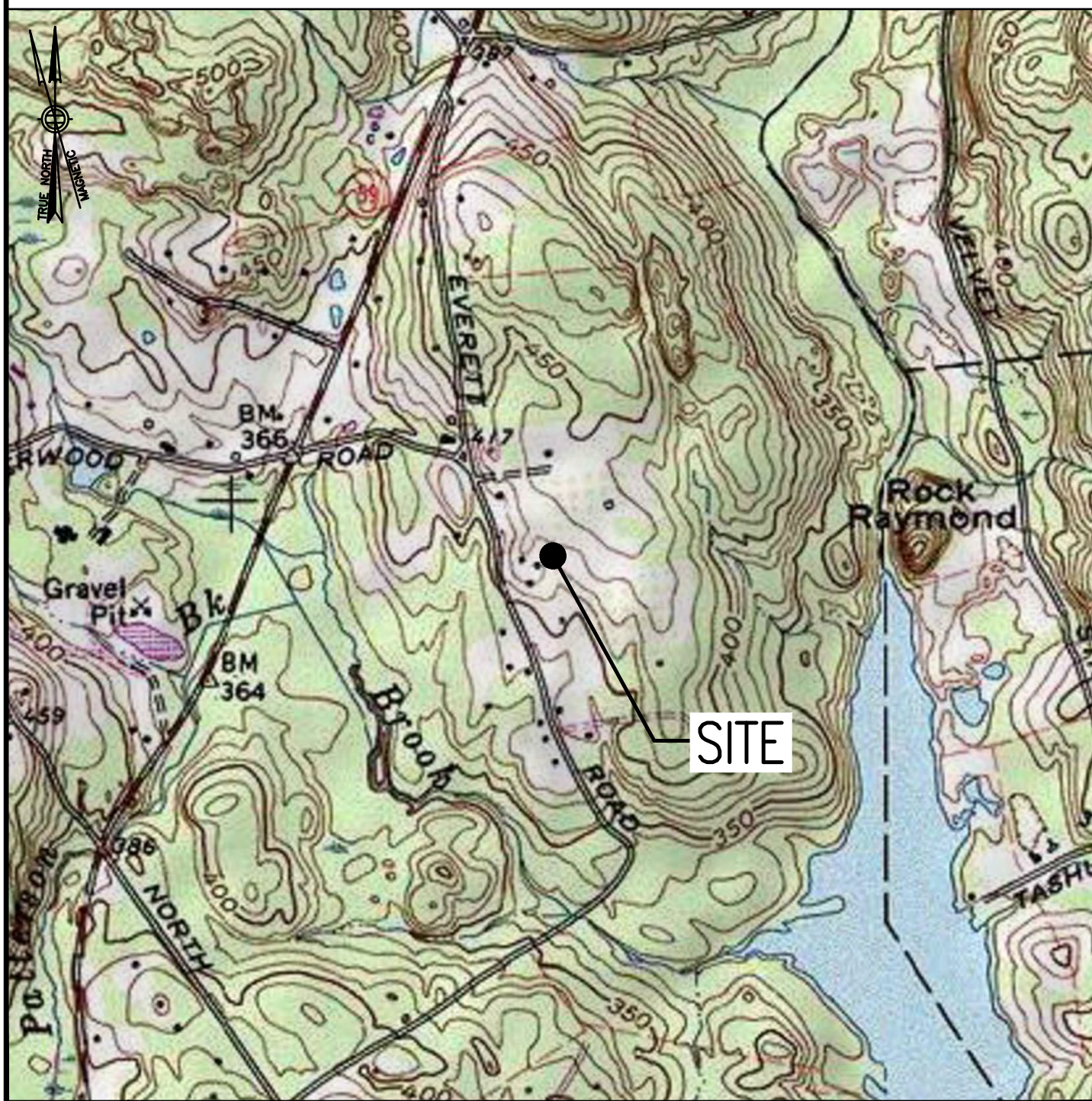
- THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK, THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OMNIPOT REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



VICINITY MAP

SCALE: 1" = 1000'-0"



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

206 EVERETT ROAD
EASTON, CT 06612
FAIRFIELD COUNTY

SITE NO.: CT11949A

SITE TYPE: 158'± MONOPOLE

RF DESIGN GUIDELINE: 67D5A998C ODE+6160

SITE NOTES

- THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
 - ADA COMPLIANCE NOT REQUIRED.
 - POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.
 - NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.
 - BUILDING CODE: 2018 CONNECTICUT STATE BUILDING CODE
 - ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
 - STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

SHEET INDEX

SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND & EQUIPMENT PLANS	1
A-2	TOWER ELEVATION & ANTENNA PLANS	1
A-3	SITE DETAILS	1
A-4	ANTENNA & FEEDLINE CHARTS	1
E-1	ELECTRIC & GROUNDING DETAILS	1

SPECIAL ZONING NOTE:
BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN ELIGIBLE FACILITY UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW).

PROJECT SUMMARY

SITE NUMBER:	CT11949A
SBA SITE NUMBER:	CT46131-A
SBA SITE NAME:	EASTON-EVERETTS RD
SITE ADDRESS:	206 EVERETT ROAD EASTON, CT 06612
PROPERTY OWNER:	THE ESTATE OF ALFRED BARNEY C/O JOAN & DAVID BARNEY 108 HIRAM MILL ROAD MONROE, CT 06468
TOWER OWNER:	SBA 2012 TC ASSETS, LLC 8501 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561-226-9523
COUNTY:	FAIRFIELD COUNTY
ZONING DISTRICT:	R3 (RESIDENTIAL)
STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	158'±
APPLICANT:	T-MOBILE NORTHEAST LLC 15 COMMERCE WAY, SUITE B NORTON, MA 02766
SBA RSM:	STEPHEN ROTH PHONE: 860-539-4920 EMAIL: SROth@sbasite.com
ARCHITECT:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
STRUCTURAL ENGINEER:	CHAPPELL ENGINEERING ASSOCIATES, LLC. 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
SITE CONTROL POINT:	LATITUDE: N.41.290278° N41°17'25.00" LONGITUDE W.73.282500° W73°16'57.00"

T-MOBILE NORTHEAST LLC

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CHECKED BY: JMT

APPROVED BY: JMT

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0	11/21/20	ISSUED FOR REVIEW	CMC

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EASTON, CT 06612

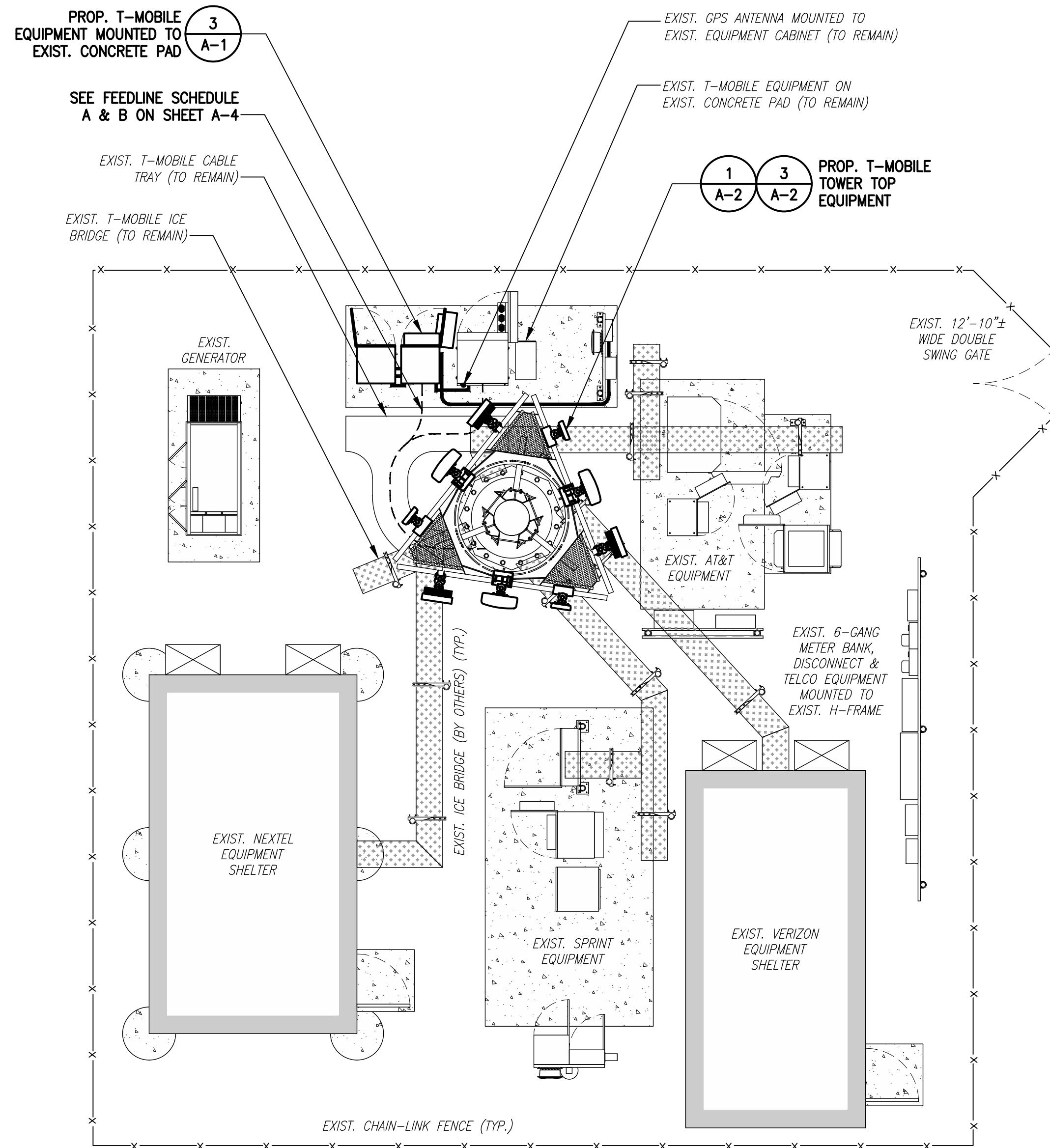
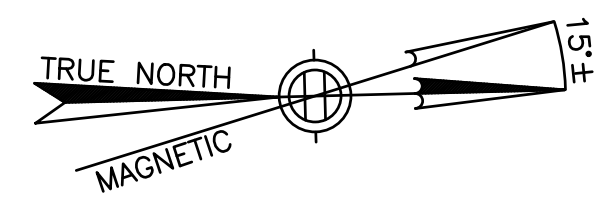
SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

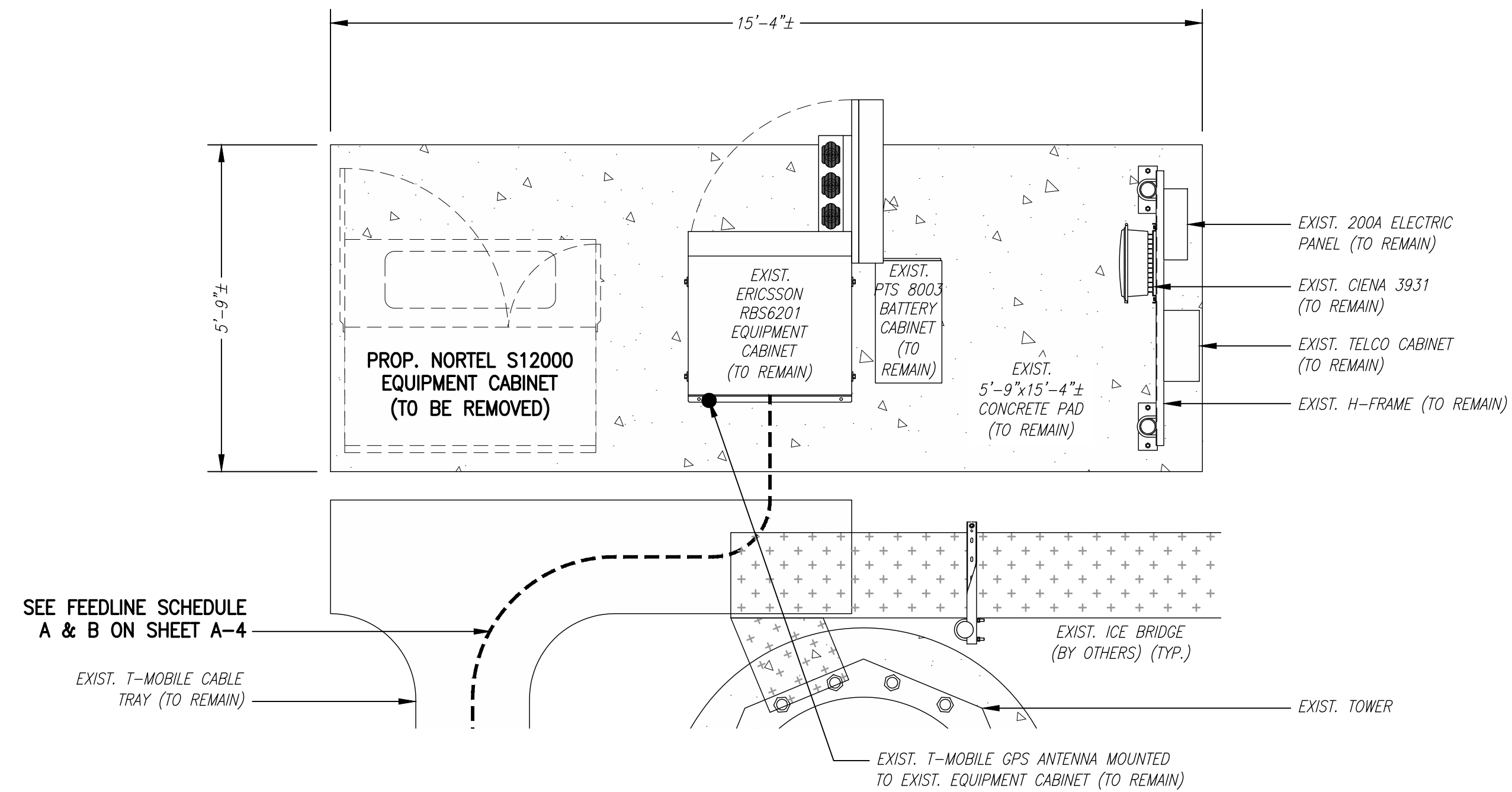
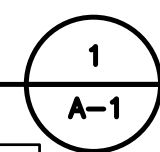
SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM
SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BUNDLING OR RELOCATION.



COMPOUND PLAN

SCALE: 3/16" = 1'-0"

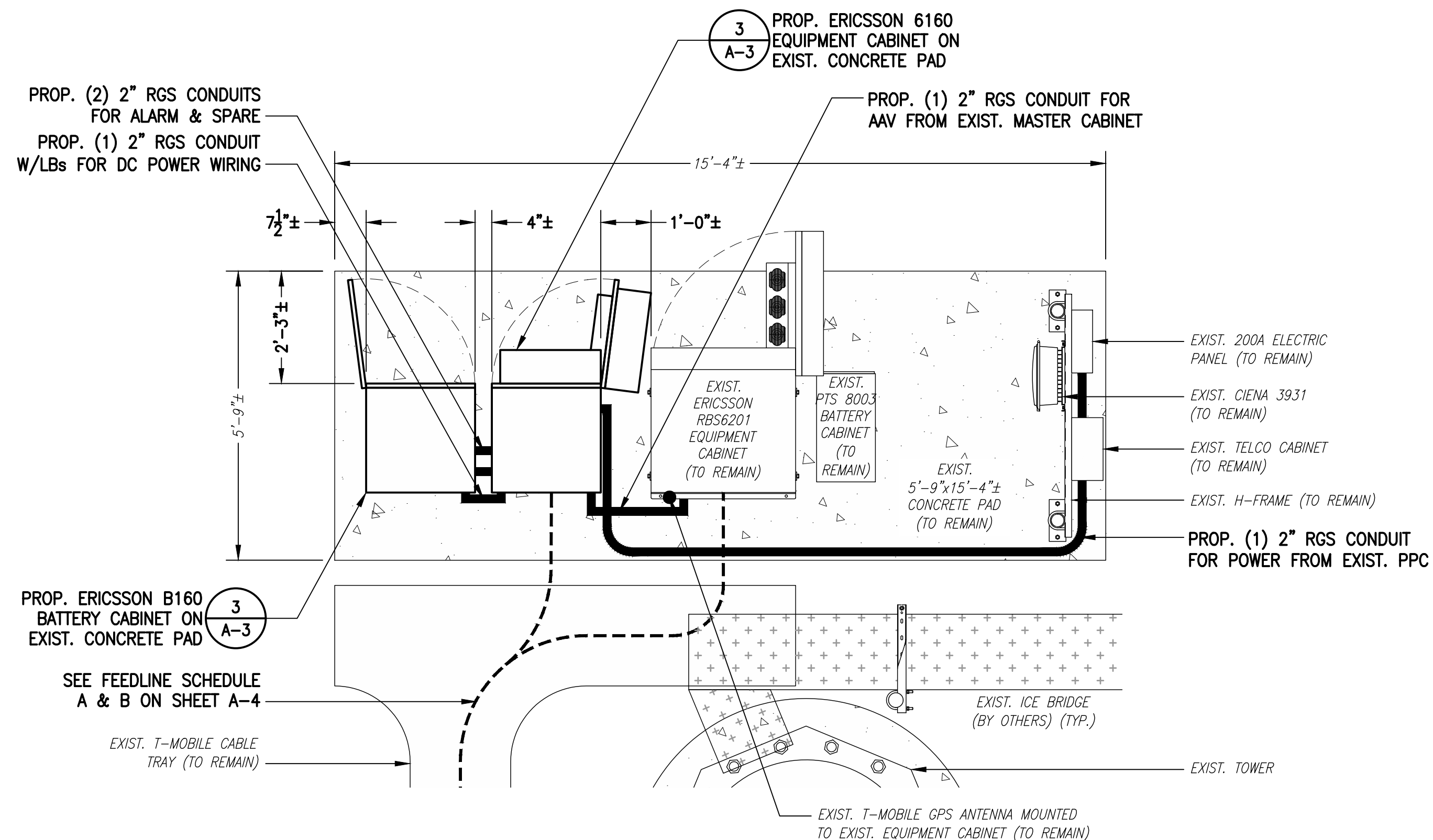
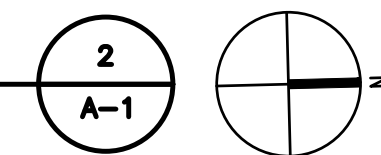
0 5'-4" 10'-8" 16'-0"



EXISTING EQUIPMENT PLAN

SCALE: 1/2" = 1'-0"

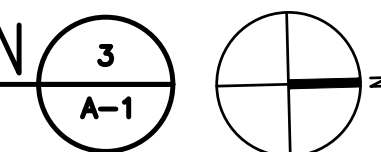
0 2' 4' 6'



PROPOSED EQUIPMENT PLAN

SCALE: 1/2" = 1'-0"

0 2' 4' 6'



T-MOBILE NORTHEAST LLC

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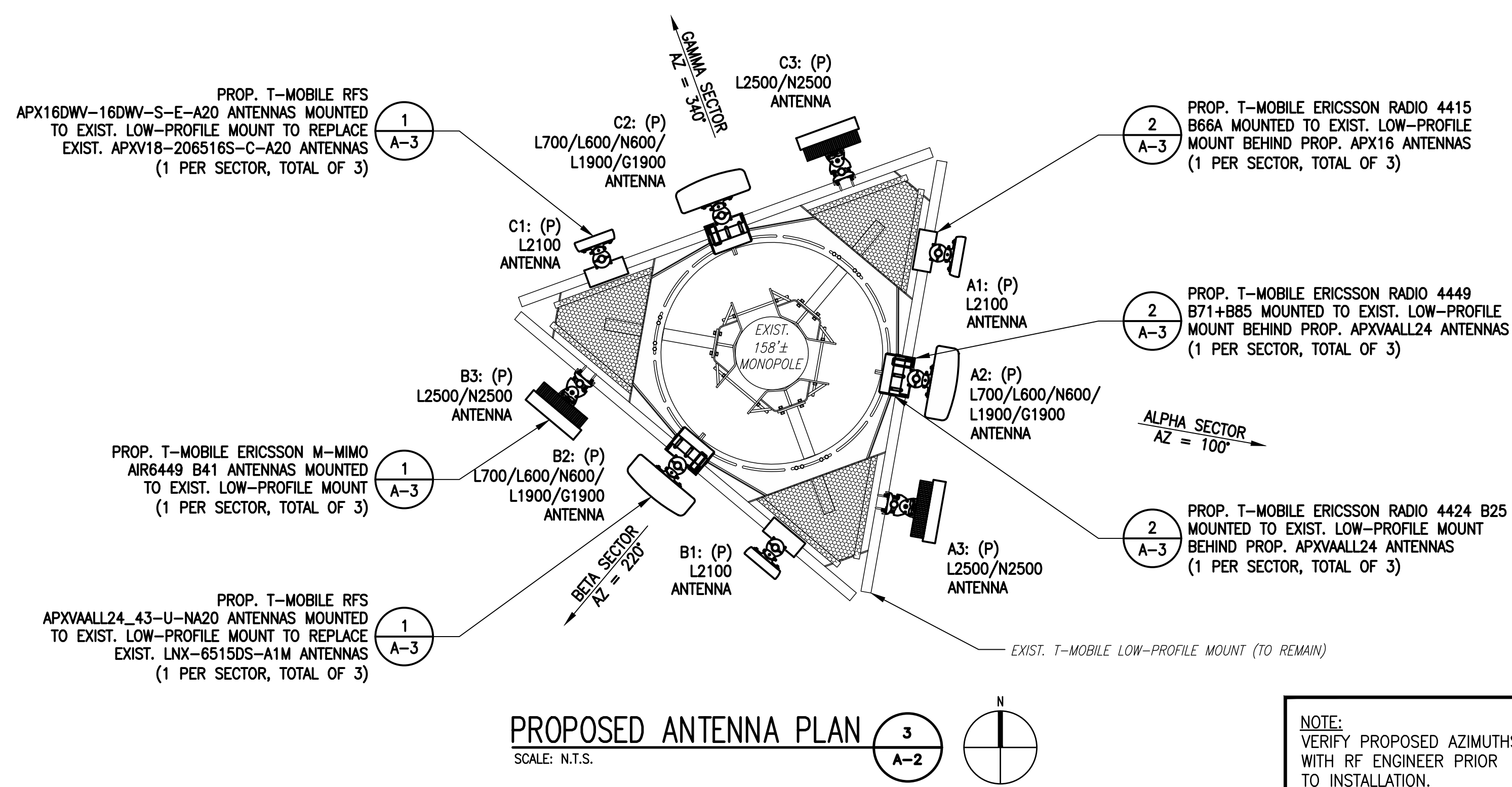
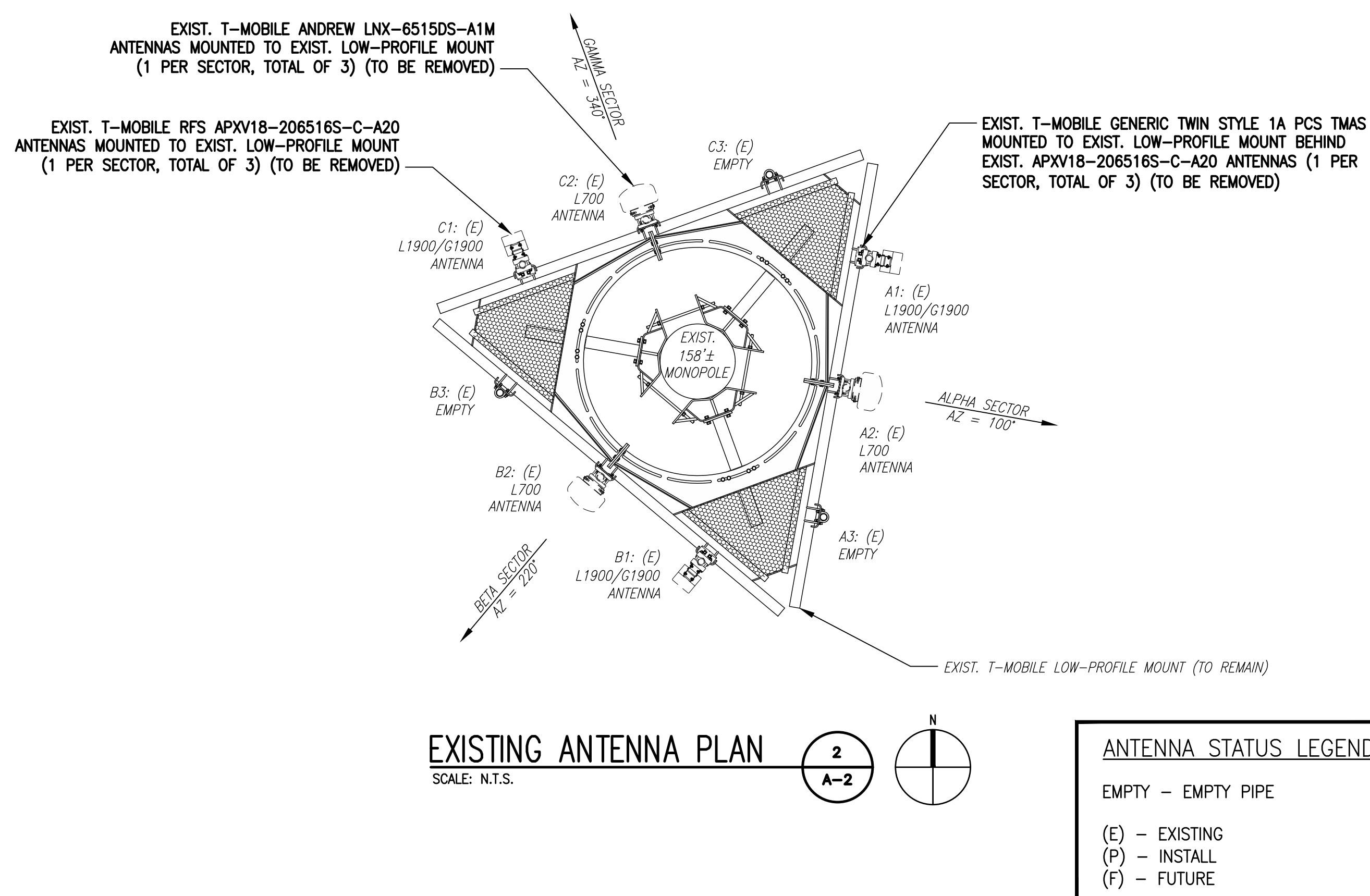
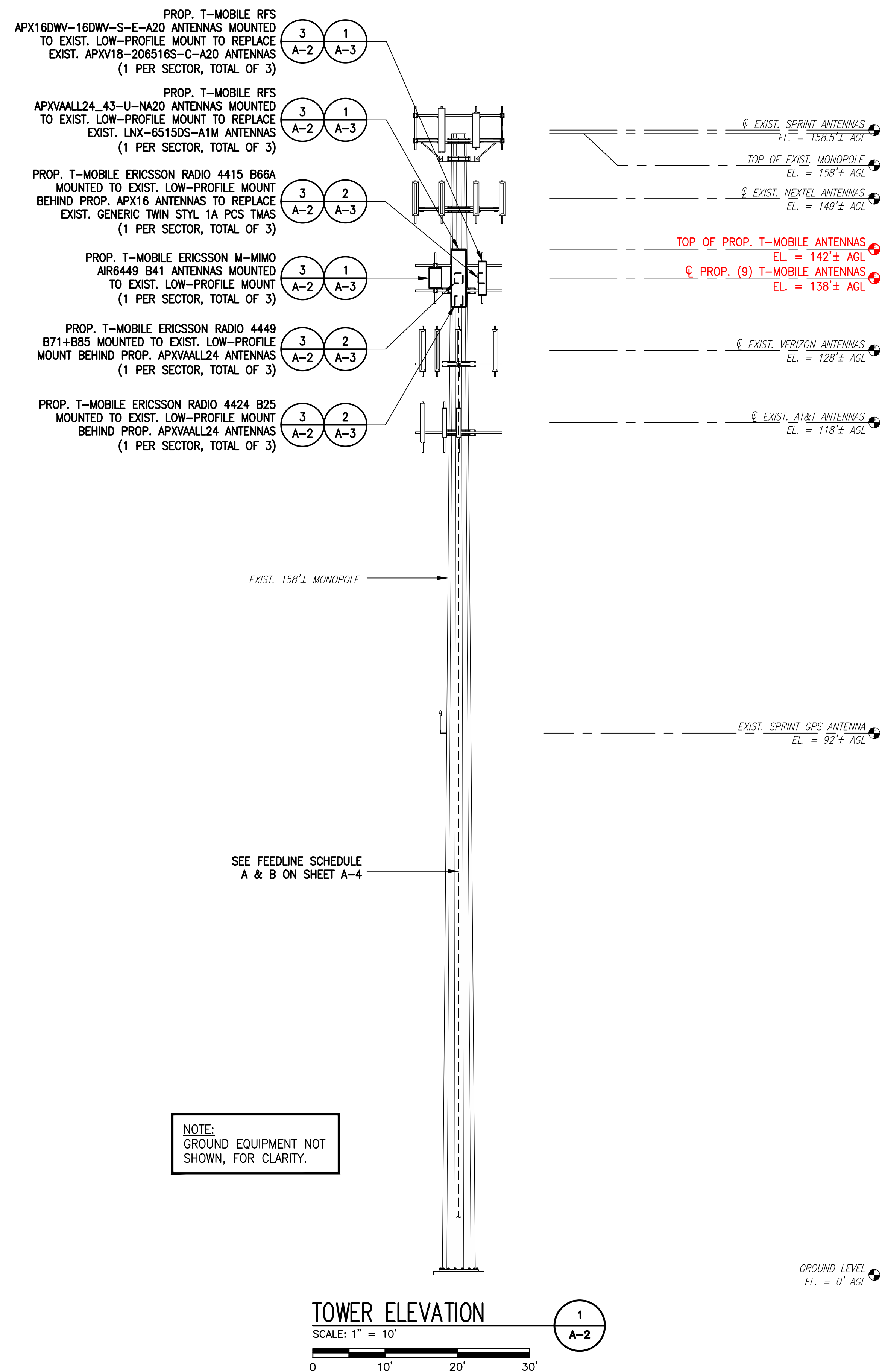
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COMPOUND &
EQUIPMENT PLANS

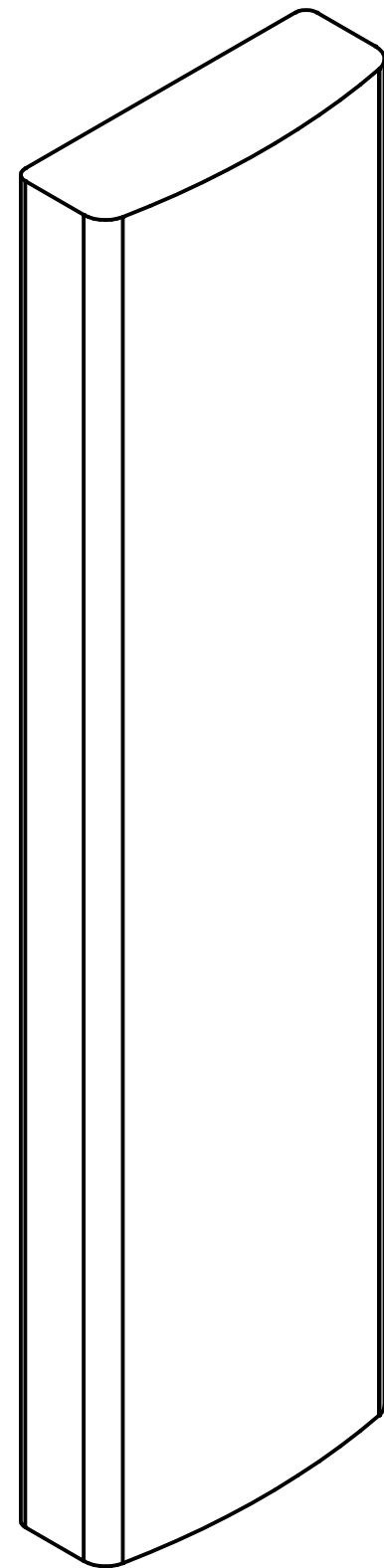
SHEET NUMBER

A-1

RAD CENTER NOTE:
T-MOBILE RAD CENTER SHOWN IN RED TEXT BASED ON SBA-PROVIDED CO-LOCATION APPLICATION, EQUIPMENT DATABASE, AND STRUCTURAL ANALYSIS. THE SBA-PROVIDED ANTENNA RAD CENTER SHALL SUPERSEDE ANY CONFLICTING INFORMATION DERIVED FROM THE T-MOBILE RFDS.



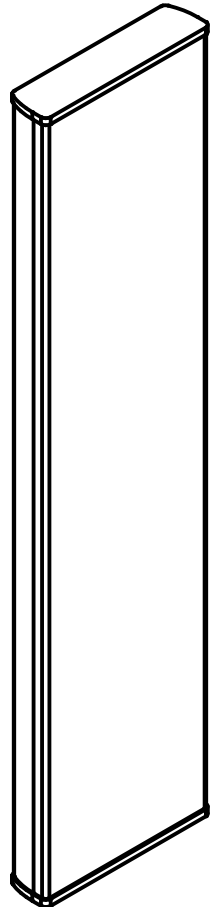
1815.166



RFS APXVAALL24 43-U-NA20 ANTENNA
DIMENSIONS: 95.9"H x 24.0"W x 8.5"D
WEIGHT: 122.8 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON M-MIMO AIR6449 B41 ANTENNA
DIMENSIONS: 33.1"H x 20.5"W x 8.3"D
WEIGHT: 103.0 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3



RFS APX16DWV-16DWV-S-E-A20 ANTENNA
DIMENSIONS: 55.9"H x 13.0"W x 3.15"D
WEIGHT: 40.7 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON RADIO 4449 B71+B85
DIMENSIONS: 14.9"H x 13.2"W x 9.3"D
WEIGHT: 74.0 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3



ERICSSON RADIO 4424 B25
DIMENSIONS: 16.5"H x 13.5"W x 9.6"D
WEIGHT: 88.0 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3



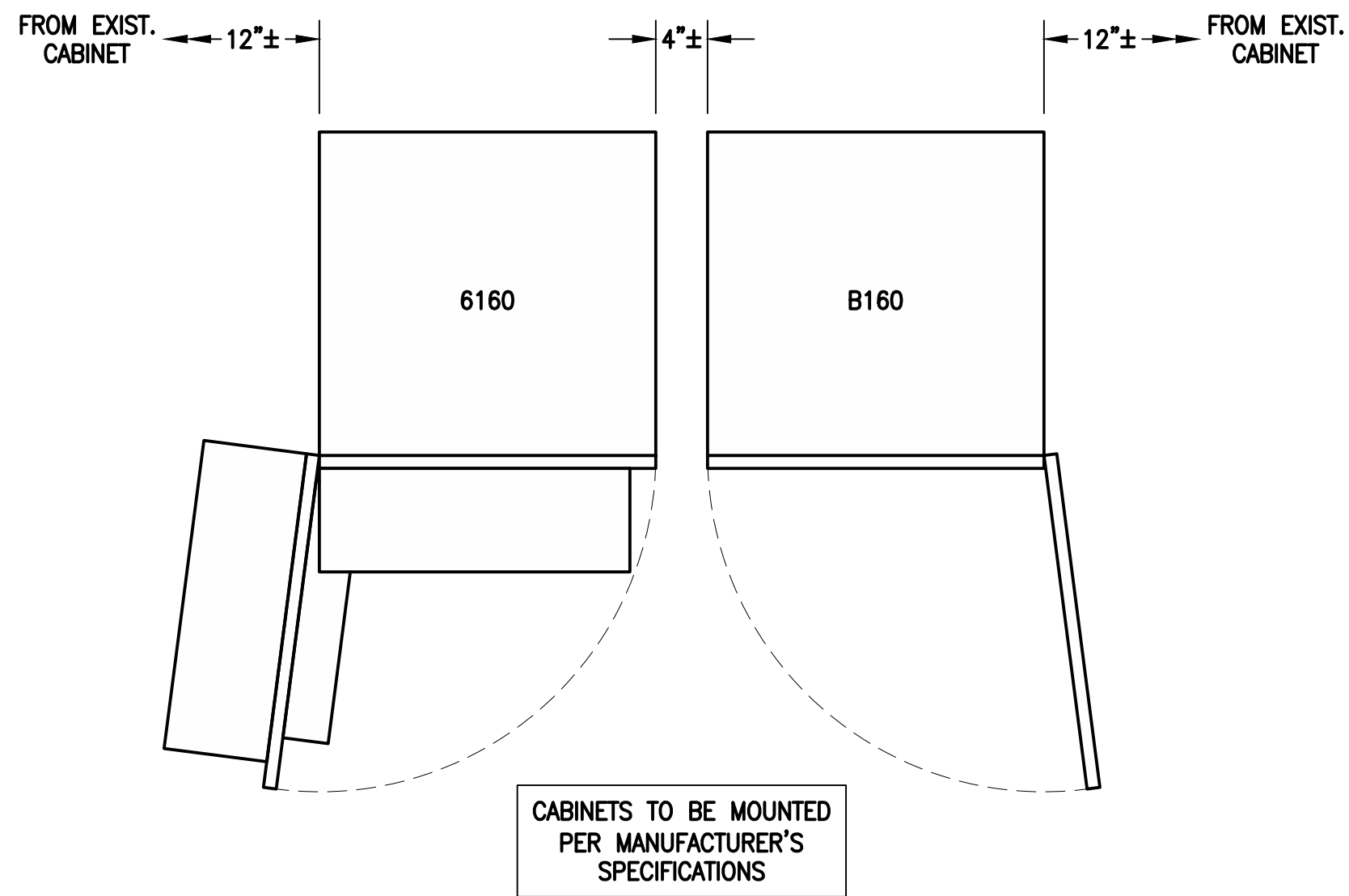
ERICSSON RADIO 4415 B66A
DIMENSIONS: 16.5"H x 13.4"W x 5.9"D
WEIGHT: 46.0 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3

ANTENNA DETAIL
SCALE: N.T.S.

1
A-3

RADIO DETAILS
SCALE: N.T.S.

2
A-3



ERICSSON 6160 SITE SUPPORT CABINET
DIMENSIONS: 63.25"H x 26.0"W x 34.0"D
QUANTITY: TOTAL OF 1

ERICSSON B160 BATTERY CABINET
DIMENSIONS: 63.25"H x 26.0"W x 26.0"D
QUANTITY: TOTAL OF 1

EQUIPMENT DETAILS
SCALE: N.T.S.

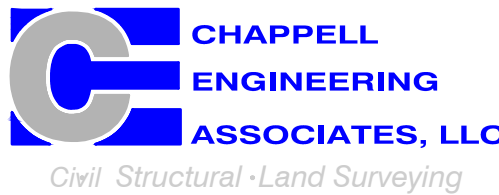
3
A-3

**T-MOBILE
NORTHEAST LLC**

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SHEET TITLE

SITE DETAILS

SHEET NUMBER

A-3

FINAL ANTENNA CONFIGURATION								
SECTOR	ANTENNA	RAD CENTER	AZIMUTH (TRUE NORTH)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	BAND	TMA/RADIOS	CABLES
ALPHA	A1 RFS APX16DWV-16DWV-S-E-A20	138'± AGL	100°	0°	—	L2100	ERICSSON RADIO 4415 B66A	PROP. (3) 1- ³ / ₁₆ " (6x12) HCS FIBER CABLES
	A2 RFS APXVAALL24_43-U-NA20	138'± AGL	100°	0°	—	L700/L600/N600	ERICSSON RADIO 4449 B71+B85	
					—	L1900/G1900	ERICSSON RADIO 4424 B25	
	A3 ERICSSON M-MIMO AIR6449 B41	138'± AGL	100°	0°	—	L2500/N2500	—	
BETA	B1 ERICSSON AIR32 KRD901146-1 B66A/B2A	138'± AGL	220°	0°	—	L2100	ERICSSON RADIO 4415 B66A	
	B2 RFS APXVAARR24_43-U-NA20	138'± AGL	220°	0°	—	L700/L600/N600	ERICSSON RADIO 4449 B71+B85	
					—	L1900/G1900	ERICSSON RADIO 4424 B25	
	B3 ERICSSON M-MIMO AIR6449 B41	138'± AGL	220°	0°	—	L2500/N2500	—	
GAMMA	C1 ERICSSON AIR32 KRD901146-1 B66A/B2A	138'± AGL	340°	0°	—	L2100	ERICSSON RADIO 4415 B66A	
	C2 RFS APXVAARR24_43-U-NA20	138'± AGL	340°	0°	—	L700/L600/N600	ERICSSON RADIO 4449 B71+B85	
					—	L1900/G1900	ERICSSON RADIO 4424 B25	
	C3 ERICSSON M-MIMO AIR6449 B41	138'± AGL	340°	0°	—	L2500/N2500	—	
CABLE NOTE: EXISTING (12) 1- ¹ / ₄ " COAX CABLES TO BE REMOVED. SEE FEEDLINE SCHEDULE A & B BELOW.								

NOTE: RFDS REV4 - 09/25/20

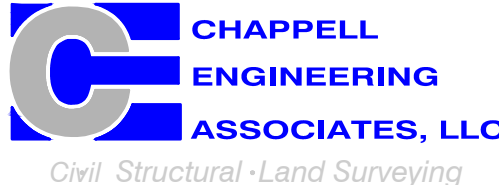
FEEDLINE SCHEDULE		
SCHEDULE	FEEDLINES	LOCATION
A	EXISTING TO REMAIN: (1) 1/2" COAX FOR GPS ANTENNA	ROUTED PER STRUCTURAL ANALYSIS
	EXISTING TO BE REMOVED: (12) 1-1/4" COAX CABLES	
B	PROPOSED: (3) 1-3/16" (6x12) HCS FIBER CABLES	
NOTE: EXISTING T-MOBILE EQUIPMENT FEEDLINE INVENTORY BASED ON OBSERVED FIELD CONDITIONS. RFDS AND FEEDLINE LEASING ENTITLEMENTS MAY DIFFER.		

T-MOBILE
NORTHEAST LLC

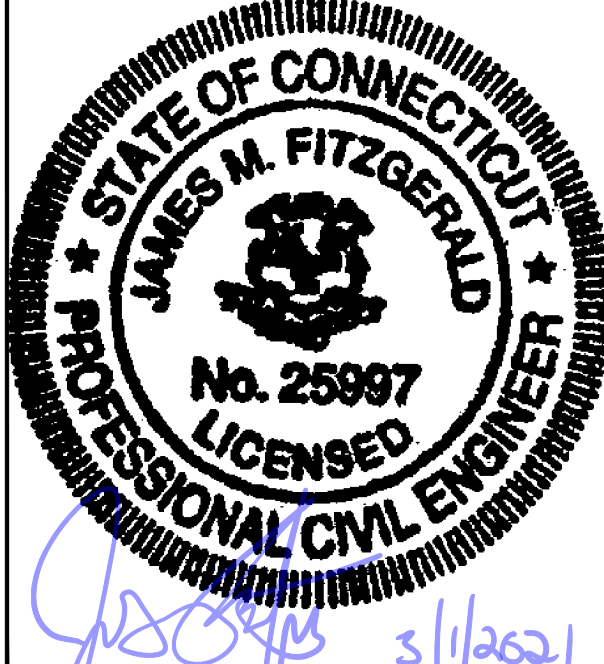
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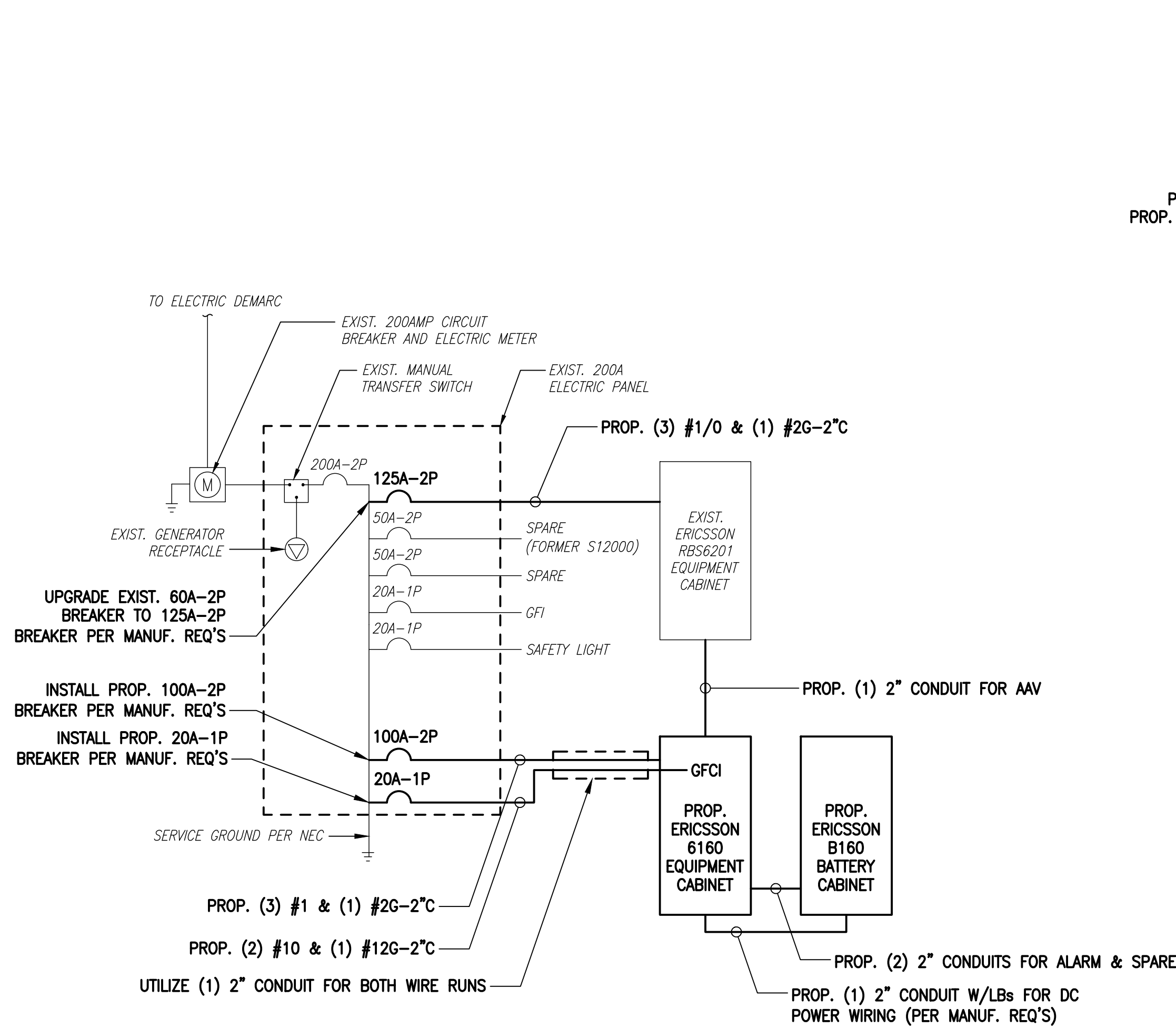
SHEET TITLE

ANTENNA &
FEEDLINE CHARTS

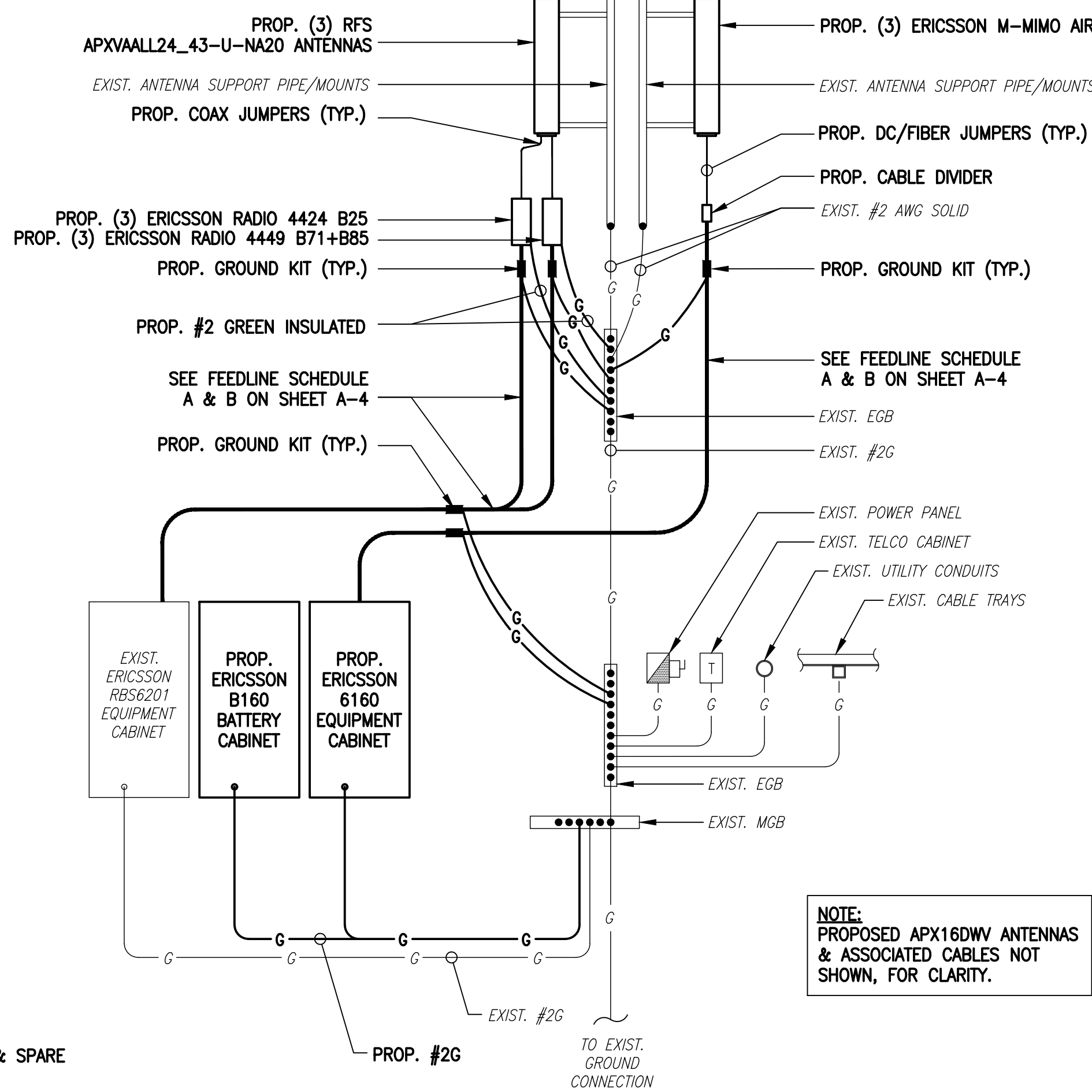
SHEET NUMBER

A-4

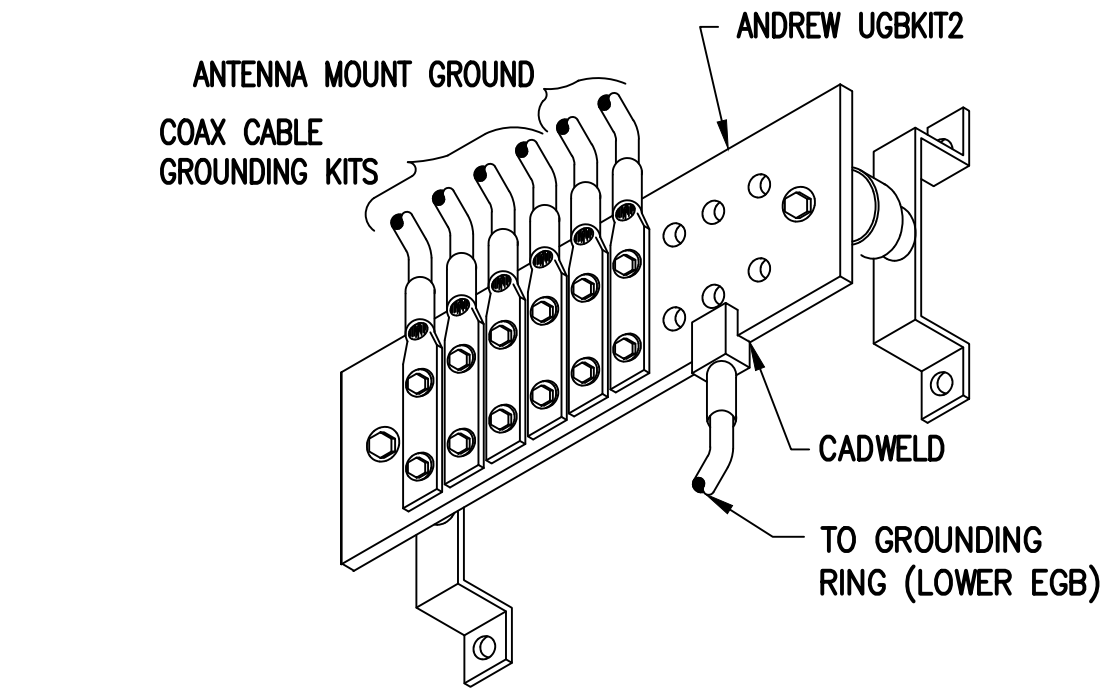
1815.166



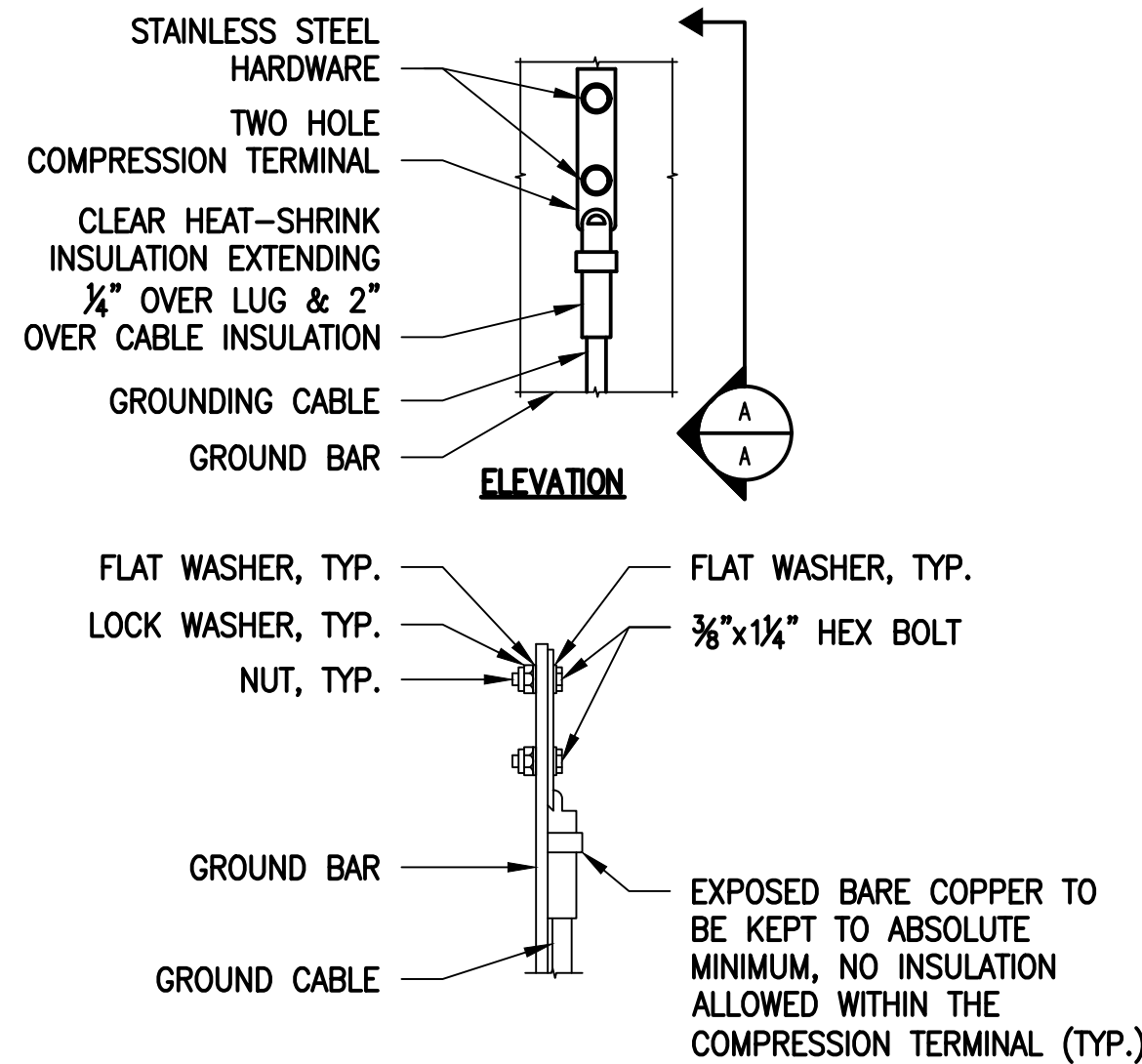
ONE LINE DIAGRAM
SCALE: NOT TO SCALE



GROUNDING RISER DIAGRAM
SCALE: NOT TO SCALE

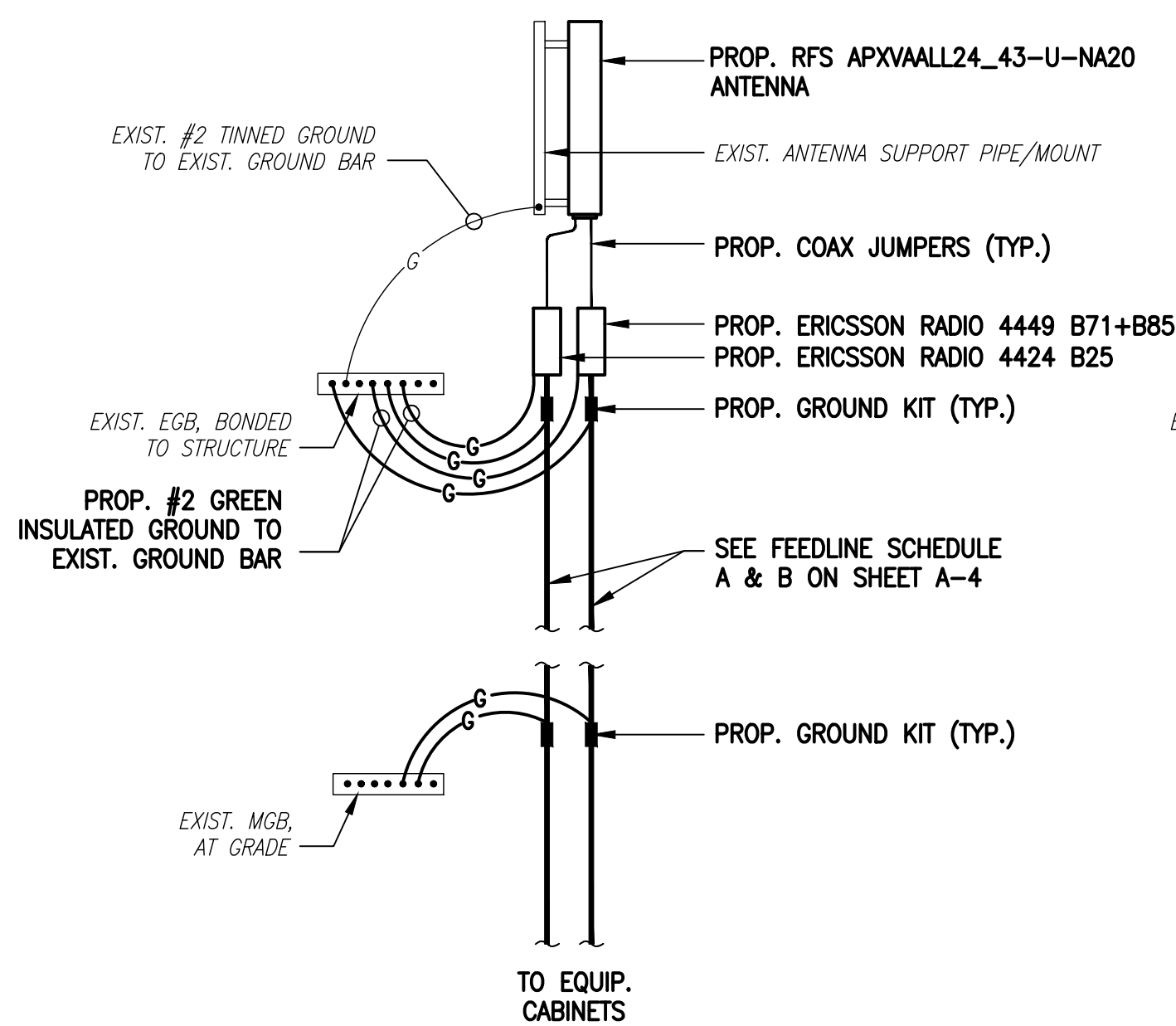


GROUND BAR (EGB)
SCALE: NOT TO SCALE

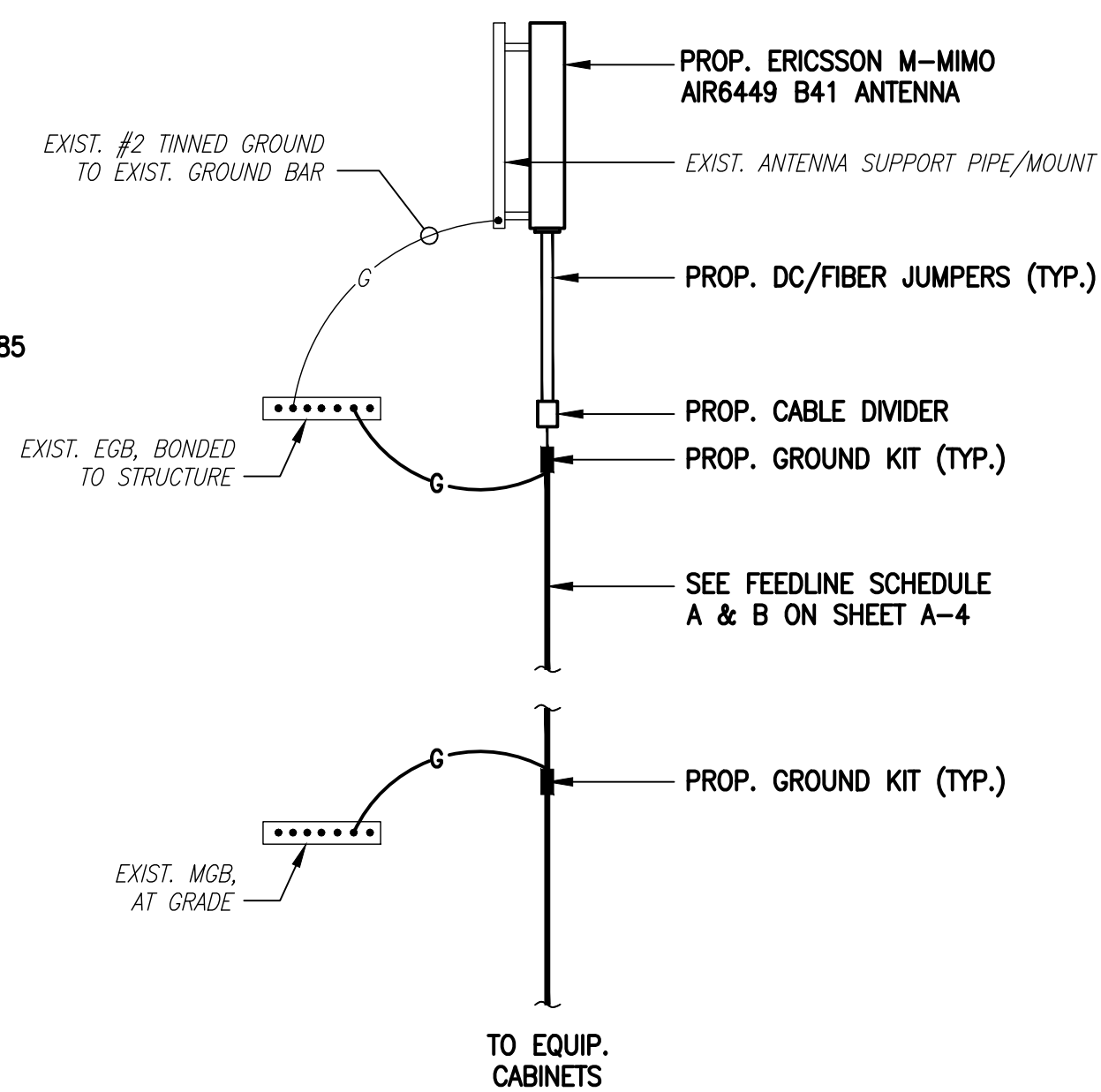


- NOTES:
- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
 - CADWELL DOWNLOADS FROM UPPER EGB, LOWER EGB AND MGB.

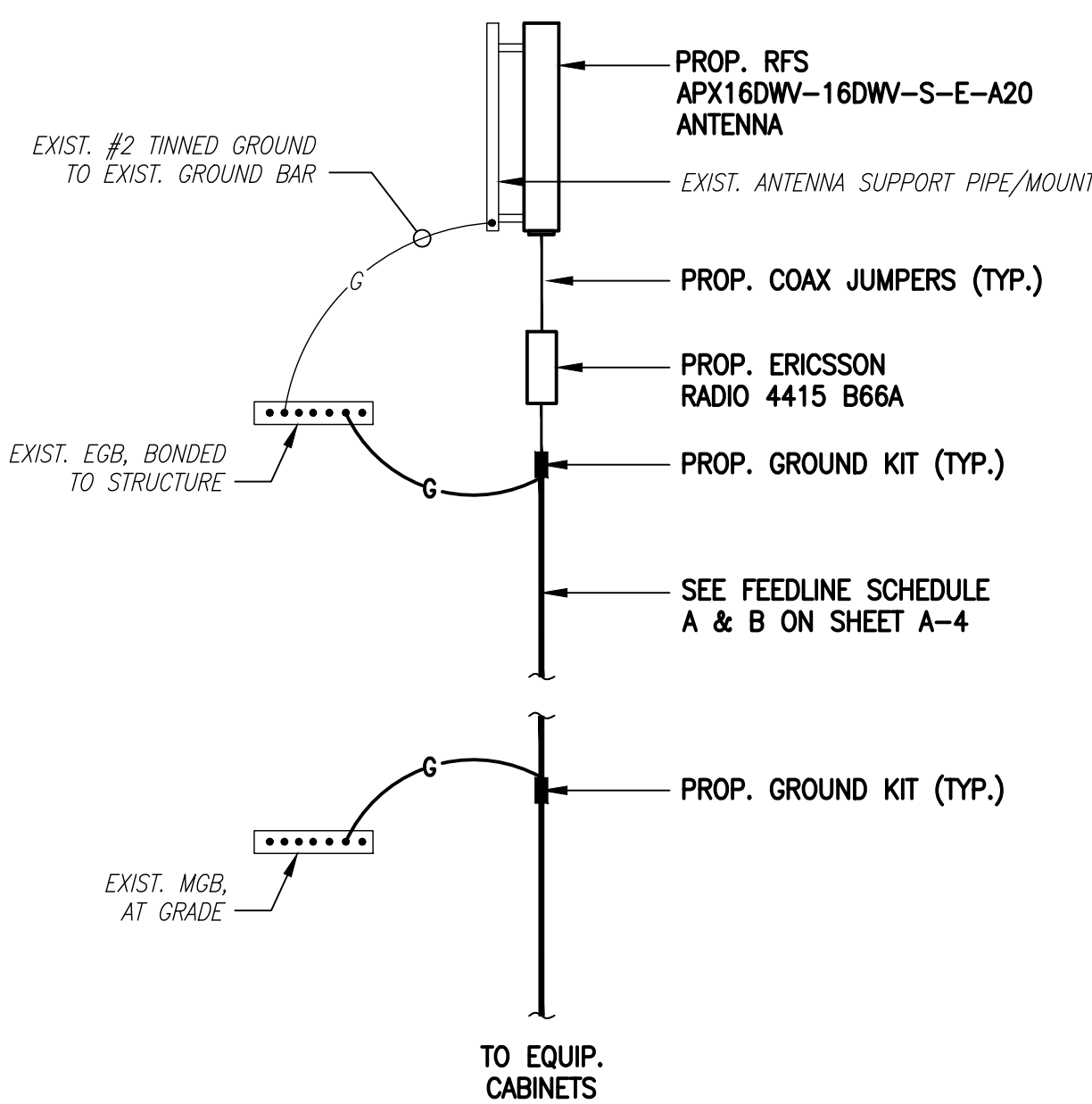
TYPICAL GROUND BAR
CONNECTIONS DETAIL
SCALE: NOT TO SCALE



L700/L600/N600/L1900/G1900 ANTENNA



L2500/N2500 ANTENNA



L2100 ANTENNA

COAX CABLE CONNECTION
AND GROUNDING DETAIL
SCALE: NOT TO SCALE

ELECTRICAL AND GROUNDING NOTES

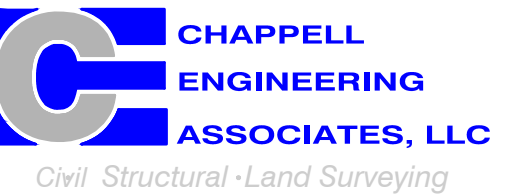
- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE- TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.

T-MOBILE NORTHEAST LLC

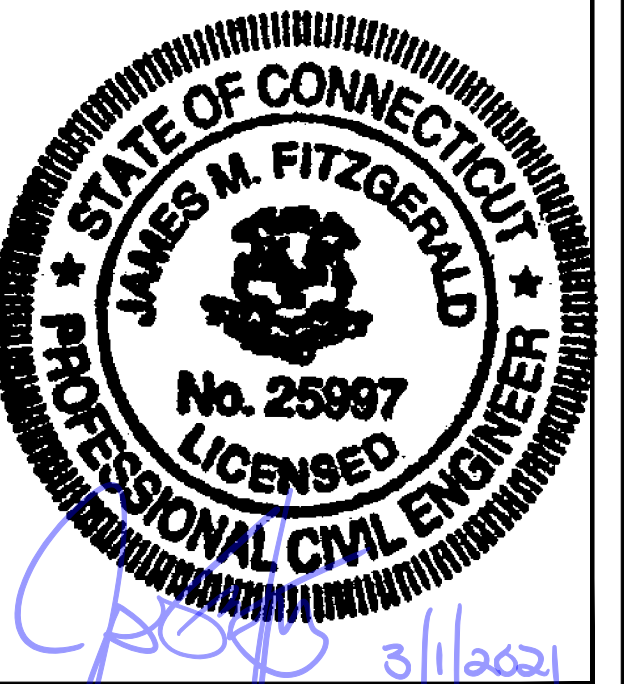
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720



R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	03/01/21	ISSUED FOR CONSTRUCTION	CMC
0	11/21/20	ISSUED FOR REVIEW	CMC

SITE NUMBER:
CT11949A

SITE ADDRESS:
206 EVERETT ROAD
EASTON, CT 06612

SHEET TITLE
**ELECTRIC & GROUNDING
DETAILS**

SHEET NUMBER

E-1

EXHIBIT 7



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 158 ft PennSummit Monopole
Customer Name: SBA Communications Corp
Customer Site Number: CT46131-A
Customer Site Name: Easton-Everetts Rd
Carrier Name: T-Mobile (App#: 141465, v1)
Carrier Site ID / Name: CT11949A / Easton
Site Location: 206 Everett Road
Easton, Connecticut
Fairfield County
Latitude: 41.290333
Longitude: -73.282666

Analysis Result:

Max Structural Usage: 83.5% [Pass]

Max Foundation Usage: 77.0% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A



Report Prepared by: Matthew Baker

Introduction

The purpose of this report is to summarize the analysis results on the 158 ft PennSummit Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Paul J. Ford Job # 29202-0378 (For PennSummit Tubular Design # 5951), dated 12/19/2002
Foundation Drawing	Paul J. Ford Job # 29202-0378 (For PennSummit Tubular Design # 5951), dated 12/19/2002
Geotechnical Report	Tectonic Engineering Consultants W.O. # 1170.C912, dated 03/30/2000
Modification Drawings	Vertical Solutions Project # 131141.01 As-Built, Dated 11/06/2013
Mount Analysis	TES Job # 99010, dated 11/30/2020

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 120.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 93.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_S = 0.215$, $S_1 = 0.066$

This structural analysis is based upon the tower being classified as a Structure Class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	158.5	3	RFS - APXVSP18-C-A20 - Panel	Low Profile Platform w/ Collar Mount, Handrail Kit (SitePro HRK14-U) and Platform Reinforcement Kit (SitePro PRK-1245L)	(4) 1 1/4" Fiber	Sprint Nextel
2		3	Commscope - DT465B-2XR - Panel			
3		3	RFS - ACU-A20-N - RET			
4		3	ALU - 1900 MHz - RRU			
5		6	ALU - 800 MHz - RRU			
6		3	ALU - TD-RRH8x20-25 - RRU			
7		3	Alu - 800 Filters			
8	149.0*	12*	Decibel - DB844H90E-XY - Panel*	Low Profile Platform*	(12) 1 1/4"*	
-	138.0	6	RFS - APX16DWV-16DWVS-E-A20 - Panel	Low Profile Platform w/ Handrail and V-Brace tie-back	(12) 1 1/4"	T-Mobile
-		3	RFS - APXV18-206516S-A20 - Panel			
-		3	Commscope - LNX-6515DS-A1M - Panel			
-		3	Ericsson - KRY 112 144/1 - TMA			
-		3	Kathrein - 782 11056 - Bias T			
17	128.0	6	Andrew - DB846F65ZAXY – Panel	Low Profile Platform	(6) 1 5/8" (2) 1 5/8" Fiber	Verizon
18		6	Andrew - JAHH-65B-R3B - Panel			
19		3	Alcatel Lucent - RRH2x60-700 - RRH			
20		3	Alcatel Lucent - RRH4X45-AWS - RRH			
21		2	RFS - DB-T1-6Z-8AB-OZ - SP			
22	118.0	3	Powerwave - P65-16-XLH-RR – Panel	Low Profile Platform	(12) 1 1/4" (1) 3/8" RET (2) 5/8" DC inside (1) 3" Innerduct	AT&T
23		6	Powerwave - 7770 - Panel			
24		6	Powerwave - LGP21401 - TMA			
25		3	Powerwave - TT19-08BP111-001 - TMA			
26		6	Ericsson - RRUS-11 - RRU			
27		1	Raycap - DC6-48-60-18 - SP			
28	75.0	1	GPS	Pipe Mount	(1) 1/2"	Sprint Nextel

*Equipment has been decommissioned but remains installed.

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
9	138.0	3	Ericsson - AIR6449 B41 - Panel	Low Profile Platform w/ Handrail and V-Brace tie-back	(9) 1 1/4" (3) 1-1/4" Fiber	T-Mobile
10		3	RFS - APXVAALL24-43-U-NA20 - Panel			
11		6	RFS - APX16DWV-16DWVS-E-A20 - Panel			
12		3	Ericsson - KRY 112 144/1 - TMAs			
13		3	Ericsson - 4449 B71 + B85 - RRU			
14		3	Ericsson - 4424 B25 - RRU			
15		3	Ericsson - 4415 B66A - RRU			
16		3	Kathrein - 782 11056 - Bias T			

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate	Flanges
Max. Usage:	83.5%	67.9%	62.2%	64.4%
Pass/Fail	Pass	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	4308.9	36.2	58.2

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.5304 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 81.30% at 39.0ft

Structure: CT46131-A-SBA
Site Name: Easton-Everetts Rd
Height: 158.00 (ft)
Base Elev: 0.000 (ft)

Code: EIA/TIA-222-G
Exposure: C
Gh: 1.1

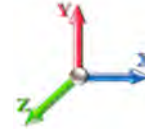
12/2/2020

Page: 1



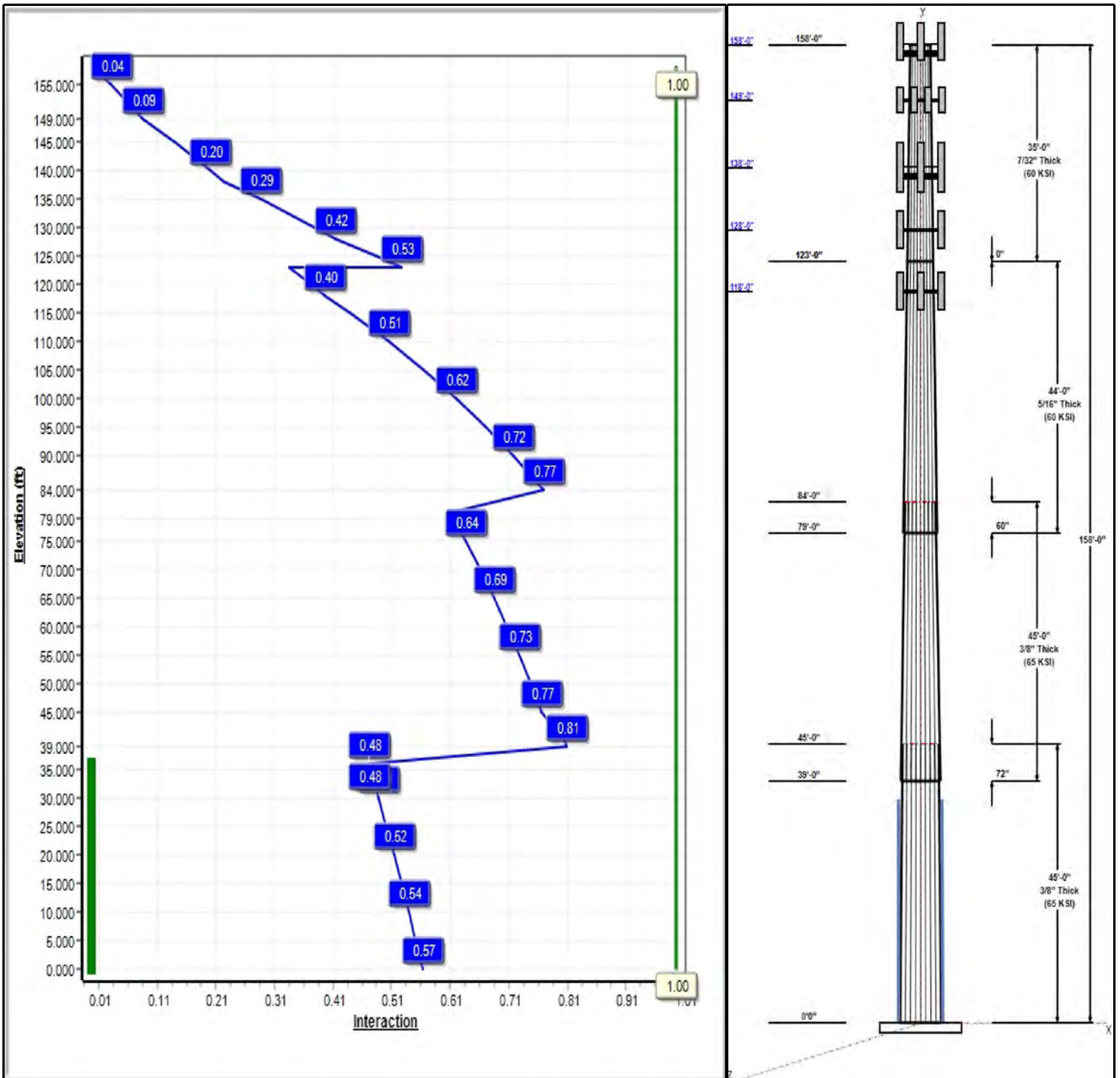
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 93 mph Wind



Iterations: 24

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Structure: CT46131-A-SBA

Type: Tapered
Site Name: Easton-Everetts Rd
Height: 158.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.20320

12/2/2020

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Shaft Properties

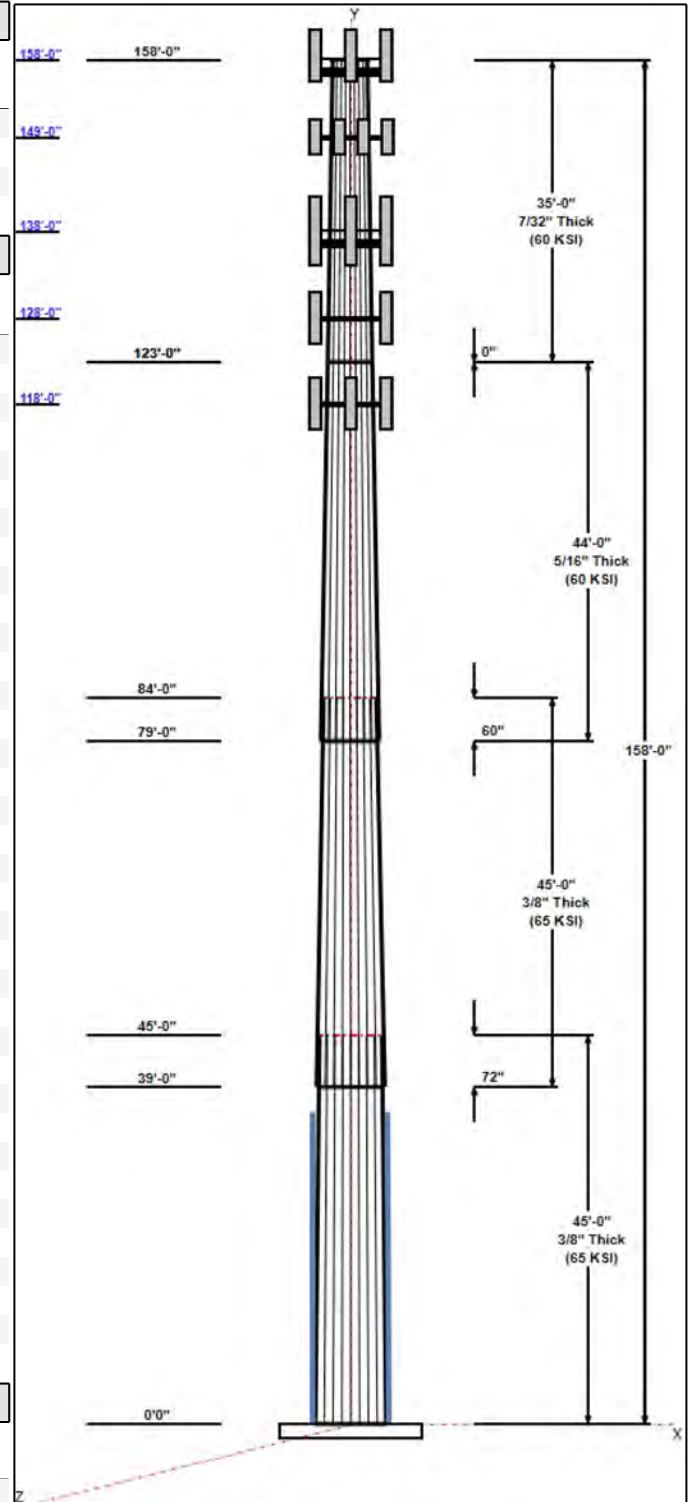
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	45.00	45.59	54.73	0.375		0.20320	65
2	45.00	38.41	47.56	0.375	Slip	0.20320	65
3	44.00	31.11	40.05	0.313	Slip	0.20320	60
4	35.00	24.00	31.11	0.219	Butt	0.20320	60

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
158.00	158.00	1	Collar Mount	Sprint Nextel
158.00	158.50	6	ALU - 800 MHz - RRU	Sprint Nextel
158.00	158.00	1	Site Pro PRK-1245 (kicker	Sprint Nextel
158.00	158.00	1	Site Pro HRK14	Sprint Nextel
158.00	158.50	3	RFS - APXVSPP18-C-A20	Sprint Nextel
158.00	158.50	3	Commscope -	Sprint Nextel
158.00	158.50	3	ALU - TD-RRH8x20-25 -	Sprint Nextel
158.00	158.50	1	Low Profile Platform	Sprint Nextel
158.00	158.50	3	RFS - ACU-A20-N - RET	Sprint Nextel
158.00	158.50	3	ALU - 1900 MHz - RRU	Sprint Nextel
158.00	158.50	3	Alu - 800 Filters	Sprint Nextel
149.00	149.00	1	Low Profile Platform	Sprint Nextel
149.00	149.00	12	DB844H90E-XY	Sprint Nextel
138.00	138.00	3	AIR6449 B41	T-Mobile
138.00	138.00	3	APXVAA24_43-U-A20	T-Mobile
138.00	138.00	6	APX16DWV-16DWVS-E-A	T-Mobile
138.00	138.00	3	KRY 112 144/1	T-Mobile
138.00	138.00	3	4449 B71 + B85	T-Mobile
138.00	138.00	3	RRUS 4415 B25	T-Mobile
138.00	138.00	3	Radio 4415 Protruding w/	T-Mobile
138.00	138.00	3	782 10663	T-Mobile
138.00	138.00	1	Platform w/ HR & V-Brace	T-Mobile
128.00	128.00	1	Low Profile Platform	Verizon
128.00	128.00	6	Andrew - DB846F65ZAXY	Verizon
128.00	128.00	6	Andrew - JAHH-65B-R3B	Verizon
128.00	128.00	3	Alcatel Lucent -	Verizon
128.00	128.00	3	Alcatel Lucent -	Verizon
128.00	128.00	2	RFS - DB-T1-6Z-8AB-0Z -	Verizon
118.00	118.00	1	Low Profile Platform	AT&T
118.00	118.00	3	P65-16-XLH-RR	AT&T
118.00	118.00	6	7770	AT&T
118.00	118.00	6	LGP21401	AT&T
118.00	118.00	3	TT19-08BP111-001	AT&T
118.00	118.00	6	RRUS-11	AT&T
118.00	118.00	1	DC6-48-60-18	AT&T
75.00	75.00	1	GPS	Sprint Nextel

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	158.00	Inside	1 1/4" Coax	Sprint
0.00	149.00	Inside	1 1/4" Coax	Sprint
0.00	138.00	Inside	1 1/4" Coax	T-Mobile
0.00	138.00	Inside	1-1/4" Fiber	T-Mobile
0.00	128.00	Outside	1 5/8" Coax	Verizon
0.00	128.00	Outside	1 5/8" Fiber	Verizon



Structure: CT46131-A-SBA

Type: Tapered	Base Shape: 18 Sided	12/2/2020
Site Name: Easton-Everetts Rd	Taper: 0.20320	
Height: 158.00 (ft)		
Base Elev: 0.00 (ft)		Page: 3



0.00	118.00	Inside	1 1/4" Coax	AT&T
0.00	118.00	Inside	3" Innerduct	AT&T
0.00	118.00	Inside	3/8" RET	AT&T
0.00	118.00	Inside	5/8" DC	AT&T
0.00	75.00	Inside	1/2" Coax	Sprint Nextel
0.00	39.00	Outside	1.25" Reinforcing plate	

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
16	2.25" 18J	75.0	Cluster

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.2500	60.0	50.0	Clipped

Reactions

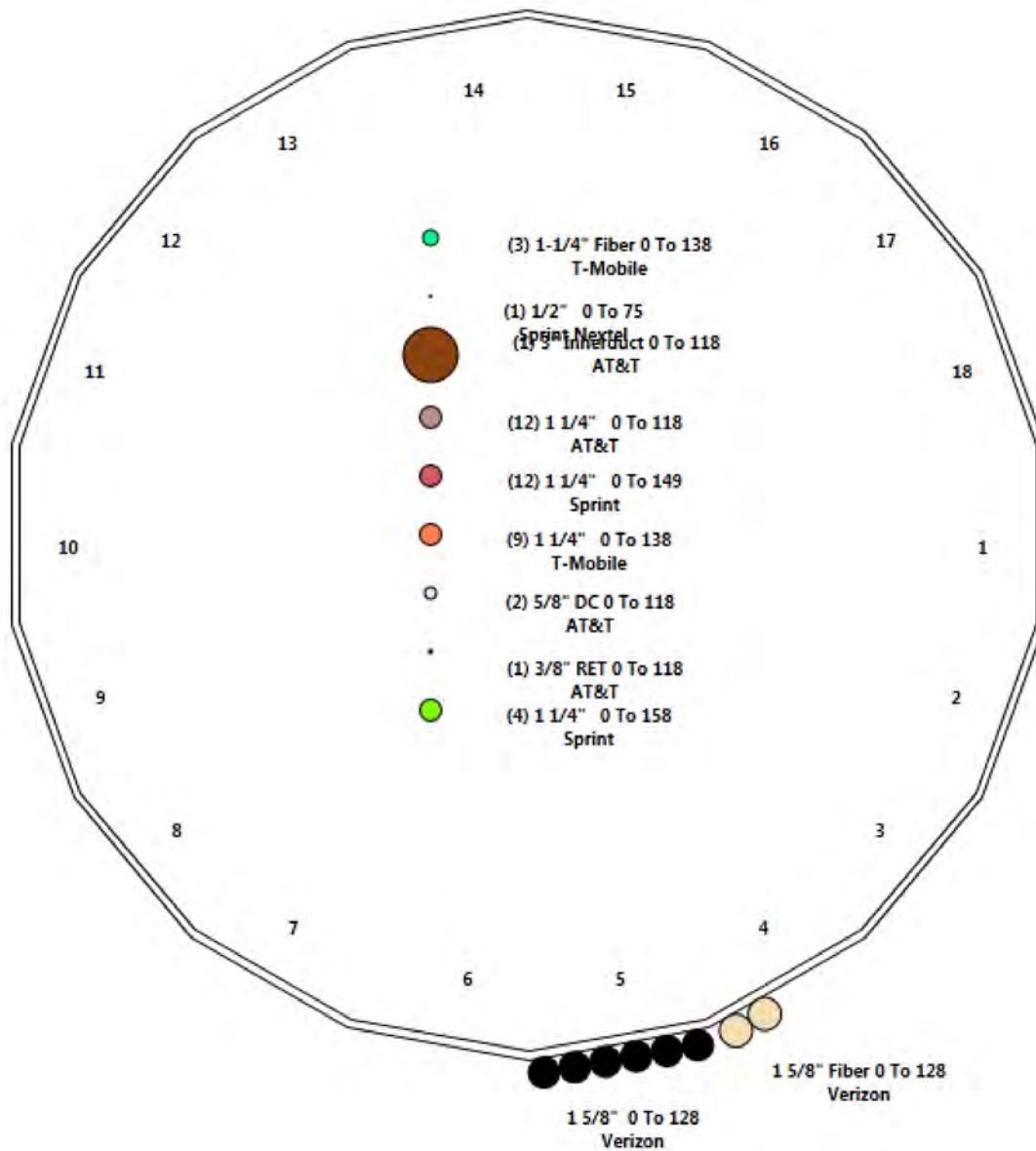
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 93 mph Wind	4308.9	36.2	58.2
0.9D + 1.6W 93 mph Wind	4261.7	36.2	43.6
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1312.6	11.0	90.6
1.2D + 1.0E	320.4	2.5	58.2
0.9D + 1.0E	316.5	2.5	43.7
1.0D + 1.0W 60 mph Wind	1114.4	9.4	48.5

Structure: CT46131-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Easton-Everetts Rd
Height: 158.00 (ft)

12/2/2020

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Shaft Properties

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 5

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	45.000	0.3750	65		0.00	9,073
2	18	45.000	0.3750	65	Slip	72.00	7,765
3	18	44.000	0.3125	60	Slip	60.00	5,238
4	18	35.000	0.2188	60	Flange	0.00	2,261
Total Shaft Weight:							24,337

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	54.73	0.00	64.69	24148.72	24.32	145.95	45.59	45.00	53.81	13896.7	20.02	121.5	0.203196
2	47.56	39.00	56.15	15792.80	20.95	126.81	38.41	84.00	45.27	8275.19	16.65	102.4	0.203196
3	40.05	79.00	39.42	7864.62	21.19	128.17	31.11	123.00	30.55	3661.17	16.14	99.56	0.203196
4	31.11	123.0	21.45	2586.87	23.66	142.19	24.00	158.00	16.51	1180.03	17.93	109.6	0.203196

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Intermediate Connectors		Termination Connectors			
							Description	Spacing (in)	Description	Spacing (in)	Lower Qty	Upper Qty
0.00	36.00	4	PLT 7.625x1.5(31mm Hole)	50	65	0.00	AJM20&sleeve	15.00	AJM20&sleeve	3.00	15	12

Load Summary

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	158.00	Collar Mount	1	350.00	5.00	1.00	644.72	8.509	1.00	0.00	0.00
2	158.00	ALU - 800 MHz - RRU	6	53.00	2.49	0.67	127.35	3.640	0.67	0.00	0.50
3	158.00	Site Pro PRK-1245 (kicker kit)	1	464.91	9.50	1.00	791.15	19.500	1.00	0.00	0.00
4	158.00	Site Pro HRK14	1	302.36	8.13	1.00	663.05	16.117	1.00	0.00	0.00
5	158.00	RFS - APXVSP18-C-A20	3	57.00	8.02	0.83	230.75	10.828	0.85	0.00	0.50
6	158.00	Commscope - DT465B-2XR	3	58.00	9.10	0.83	286.69	10.447	0.85	0.00	0.50
7	158.00	ALU - TD-RRH8x20-25 - RRU	3	70.00	4.05	0.67	168.24	5.471	0.67	0.00	0.50
8	158.00	Low Profile Platform	1	1200.00	25.00	1.00	2252.58	46.052	1.00	0.00	0.50
9	158.00	RFS - ACU-A20-N - RET	3	1.00	0.14	0.67	5.32	0.438	0.67	0.00	0.50
10	158.00	ALU - 1900 MHz - RRU	3	44.00	3.80	0.67	153.73	5.197	0.67	0.00	0.50
11	158.00	Alu - 800 Filters	3	8.80	0.78	0.50	26.54	1.430	0.50	0.00	0.50
12	149.00	Low Profile Platform	1	1200.00	25.00	1.00	2246.43	45.929	1.00	0.00	0.00
13	149.00	DB844H90E-XY	12	14.00	3.05	1.10	116.72	3.908	1.08	0.00	0.00
14	138.00	AIR6449 B41	3	103.00	5.65	0.71	238.98	6.593	0.73	0.00	0.00
15	138.00	APXVAA24_43-U-A20	3	99.00	20.24	0.73	236.07	23.042	0.75	0.00	0.00
16	138.00	APX16DWV-16DWVS-E-A20	6	40.70	6.61	0.62	156.79	8.770	0.64	0.00	0.00
17	138.00	KRY 112 144/1	3	11.00	0.41	0.50	21.69	0.881	0.50	0.00	0.00
18	138.00	4449 B71 + B85	3	73.20	1.97	0.67	130.46	2.535	0.67	0.00	0.00
19	138.00	RRUS 4415 B25	3	46.00	1.64	0.67	86.76	2.151	0.67	0.00	0.00
20	138.00	Radio 4415 Protruding w/ Fan	3	49.60	1.86	0.67	101.11	2.504	0.67	0.00	0.00
21	138.00	782 10663	3	5.30	0.28	0.50	14.67	0.678	0.50	0.00	0.00
22	138.00	Platform w/ HR & V-Brace	1	2246.00	51.70	1.00	5355.76	89.639	1.00	0.00	0.00
23	128.00	Low Profile Platform	1	1500.00	22.00	1.00	2788.32	39.384	1.00	0.00	0.00
24	128.00	Andrew - DB846F65ZAXY	6	21.00	7.05	0.94	207.89	8.280	0.95	0.00	0.00
25	128.00	Andrew - JAHH-65B-R3B	6	63.30	9.11	0.83	287.07	10.431	0.85	0.00	0.00
26	128.00	Alcatel Lucent - RRH2x60-700 - RRH	3	55.00	3.36	0.67	140.03	4.127	0.67	0.00	0.00
27	128.00	Alcatel Lucent - RRH4X45-AWS -	3	56.80	2.54	0.67	142.66	3.413	0.67	0.00	0.00
28	128.00	RFS - DB-T1-6Z-8AB-OZ - SP	2	18.90	4.80	0.50	138.07	8.758	0.50	0.00	0.00
29	118.00	Low Profile Platform	1	1500.00	22.00	1.00	2777.88	39.243	1.00	0.00	0.00
30	118.00	P65-16-XLH-RR	3	53.00	8.16	0.79	214.14	10.896	0.81	0.00	0.00
31	118.00	7770	6	35.00	5.50	0.77	166.67	6.527	0.80	0.00	0.00
32	118.00	LGP21401	6	14.10	1.29	0.67	38.51	2.106	0.67	0.00	0.00
33	118.00	TT19-08BP111-001	3	16.00	0.64	0.67	35.76	1.219	0.67	0.00	0.00
34	118.00	RRUS-11	6	51.00	2.52	0.50	121.56	3.138	0.50	0.00	0.00
35	118.00	DC6-48-60-18	1	31.80	0.92	1.00	92.16	1.348	1.00	0.00	0.00
36	75.00	GPS	1	3.70	0.01	1.00	3.70	0.010	1.00	0.00	0.00
Totals:			117	13,093.27			32,628.30				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	158.00	(4) 1 1/4" Coax	0.00	Inside
0.00	149.00	(12) 1 1/4" Coax	0.00	Inside
0.00	138.00	(9) 1 1/4" Coax	0.00	Inside
0.00	138.00	(3) 1-1/4" Fiber	0.00	Inside
0.00	128.00	(6) 1 5/8" Coax	1.98	Outside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
0.00	128.00	(2) 1 5/8" Fiber		0.00		Outside					
0.00	118.00	(12) 1 1/4" Coax		0.00		Inside					
0.00	118.00	(1) 3" Innerduct		0.00		Inside					
0.00	118.00	(1) 3/8" RET		0.00		Inside					
0.00	118.00	(2) 5/8" DC		0.00		Inside					
0.00	75.00	(1) 1/2" Coax		0.00		Inside					
0.00	39.00	(4) 1.25" Reinforcing plate		3.00		Outside					

Shaft Section Properties

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020	
Site Name: Easton-Everetts Rd	Exposure: C		
Height: 158.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 8



Increment Length: 5 (ft)

											Additional Reinforcing			
Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
0.00	RB1	0.3750	54.730	64.694	24148.7	24.32	145.95	65	73	0.0	45.75	21320.2	15073.2	
5.00		0.3750	53.714	63.484	22819.7	23.85	143.24	65	73	1090.4	45.75	20560.3	14538.2	778.4
10.00		0.3750	52.698	62.275	21540.4	23.37	140.53	65	74	1069.8	45.75	19814.2	14012.8	778.4
15.00		0.3750	51.682	61.066	20309.9	22.89	137.82	65	74	1049.3	45.75	19082.0	13497.3	778.4
20.00		0.3750	50.666	59.857	19127.1	22.41	135.11	65	75	1028.7	45.75	18363.6	12991.5	778.4
25.00		0.3750	49.650	58.648	17991.1	21.94	132.40	65	76	1008.1	45.75	17659.1	12495.4	778.4
30.00		0.3750	48.634	57.438	16901.0	21.46	129.69	65	76	987.5	45.75	16968.4	12009.2	778.4
35.00		0.3750	47.618	56.229	15855.9	20.98	126.98	65	77	967.0	45.75	16291.6	11532.6	778.4
36.00	RT1	0.3750	47.415	55.987	15652.2	20.88	126.44	65	77	190.9	45.75	16157.9	11438.5	155.7
39.00	Bot - Section 2	0.3750	46.805	55.262	15051.6	20.60	124.81	65	77	567.8				
40.00		0.3750	46.602	55.020	14854.8	20.50	124.27	65	77	378.3				
45.00	Top - Section 1	0.3750	46.336	54.703	14599.9	20.38	123.56	65	77	1866.8				
50.00		0.3750	45.320	53.494	13652.9	19.90	120.85	65	78	920.4				
55.00		0.3750	44.304	52.285	12747.8	19.42	118.14	65	79	899.9				
60.00		0.3750	43.288	51.076	11883.6	18.94	115.44	65	79	879.3				
65.00		0.3750	42.272	49.866	11059.4	18.47	112.73	65	80	858.7				
70.00		0.3750	41.256	48.657	10274.2	17.99	110.02	65	80	838.1				
75.00		0.3750	40.240	47.448	9527.1	17.51	107.31	65	81	817.6				
79.00	Bot - Section 3	0.3750	39.428	46.481	8956.2	17.13	105.14	65	81	639.2				
80.00		0.3750	39.224	46.239	8817.1	17.03	104.60	65	81	291.5				
84.00	Top - Section 2	0.3125	39.037	38.408	7276.7	20.62	124.92	60	72	1151.0				
85.00		0.3125	38.833	38.206	7162.8	20.50	124.27	60	72	130.4				
90.00		0.3125	37.817	37.199	6610.8	19.93	121.02	60	73	641.5				
95.00		0.3125	36.801	36.191	6088.0	19.35	117.76	60	73	624.3				
100.00		0.3125	35.785	35.183	5593.5	18.78	114.51	60	74	607.2				
105.00		0.3125	34.769	34.176	5126.5	18.21	111.26	60	75	590.0				
110.00		0.3125	33.753	33.168	4686.3	17.63	108.01	60	75	572.9				
115.00		0.3125	32.737	32.160	4272.0	17.06	104.76	60	76	555.7				
118.00		0.3125	32.128	31.556	4035.6	16.72	102.81	60	76	325.2				
120.00		0.3125	31.721	31.153	3882.9	16.49	101.51	60	76	213.4				
123.00	Top - Section 3	0.3125	31.112	30.548	3661.2	16.14	99.56	60	76	314.9				
123.00	Bot - Section 4	0.2188	31.112	21.454	2586.9	23.06	142.19	60	69					
125.00		0.2188	30.705	21.171	2486.1	23.33	140.34	60	69	145.0				
128.00		0.2188	30.096	20.748	2339.9	22.84	137.55	60	70	214.0				
130.00		0.2188	29.689	20.466	2245.8	22.52	135.69	60	70	140.2				
135.00		0.2188	28.674	19.760	2021.4	21.70	131.05	60	71	342.2				
138.00		0.2188	28.064	19.337	1894.3	21.21	128.26	60	71	199.6				
140.00		0.2188	27.658	19.055	1812.5	20.88	126.41	60	72	130.6				
145.00		0.2188	26.642	18.349	1618.5	20.06	121.76	60	73	318.2				
149.00		0.2188	25.829	17.785	1473.7	19.40	118.05	60	73	245.9				
150.00		0.2188	25.626	17.644	1438.9	19.24	117.12	60	74	60.3				
155.00		0.2188	24.610	16.938	1273.1	18.42	112.48	60	74	294.2				
158.00		0.2188	24.000	16.515	1180.0	17.93	109.69	60	75	170.7				
Total Weight										24336.9	5604.5			

Discrete Appurtenance Forces

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 10



Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	158.00	Commscope -	3	29.332	32.265	0.62	0.75	16.95	208.80	0.000	0.500	875.21	0.00	437.60
2	158.00	Collar Mount	1	29.313	32.244	1.00	1.00	5.00	420.00	0.000	0.000	257.95	0.00	0.00
3	158.00	Site Pro PRK-1245 (kicker	1	29.313	32.244	1.00	1.00	9.50	557.89	0.000	0.000	490.11	0.00	0.00
4	158.00	Site Pro HRK14	1	29.313	32.244	1.00	1.00	8.13	362.83	0.000	0.000	419.43	0.00	0.00
5	158.00	RFS - APXVSP18-C-A20	3	29.332	32.265	0.62	0.75	14.96	205.20	0.000	0.500	772.27	0.00	386.13
6	158.00	ALU - 800 MHz - RRU	6	29.332	32.265	0.50	0.75	7.51	381.60	0.000	0.500	387.56	0.00	193.78
7	158.00	Low Profile Platform	1	29.332	32.265	0.75	0.75	18.75	1440.00	0.000	0.500	967.96	0.00	483.98
8	158.00	RFS - ACU-A20-N - RET	3	29.332	32.265	0.50	0.75	0.21	3.60	0.000	0.500	10.90	0.00	5.45
9	158.00	ALU - 1900 MHz - RRU	3	29.332	32.265	0.50	0.75	5.73	158.40	0.000	0.500	295.73	0.00	147.87
10	158.00	Alu - 800 Filters	3	29.332	32.265	0.38	0.75	0.88	31.68	0.000	0.500	45.30	0.00	22.65
11	158.00	ALU - TD-RRH8x20-25 -	3	29.332	32.265	0.50	0.75	6.11	252.00	0.000	0.500	315.19	0.00	157.59
12	149.00	Low Profile Platform	1	28.953	31.848	1.00	1.00	25.00	1440.00	0.000	0.000	1273.93	0.00	0.00
13	149.00	DB844H90E-XY	12	28.953	31.848	0.83	0.75	30.19	201.60	0.000	0.000	1538.65	0.00	0.00
14	138.00	Platform w/ HR & V-Brace	1	28.489	31.338	1.00	1.00	51.70	2695.20	0.000	0.000	2592.29	0.00	0.00
15	138.00	782 10663	3	28.489	31.338	0.38	0.75	0.32	19.08	0.000	0.000	15.79	0.00	0.00
16	138.00	Radio 4415 Protruding w/	3	28.489	31.338	0.50	0.75	2.80	178.56	0.000	0.000	140.59	0.00	0.00
17	138.00	RRUS 4415 B25	3	28.489	31.338	0.50	0.75	2.47	165.60	0.000	0.000	123.96	0.00	0.00
18	138.00	4449 B71 + B85	3	28.489	31.338	0.50	0.75	2.97	263.52	0.000	0.000	148.91	0.00	0.00
19	138.00	KRY 112 144/1	3	28.489	31.338	0.38	0.75	0.46	39.60	0.000	0.000	23.13	0.00	0.00
20	138.00	APXVAA24_43-U-A20	3	28.489	31.338	0.55	0.75	33.24	356.40	0.000	0.000	1666.90	0.00	0.00
21	138.00	AIR6449 B41	3	28.489	31.338	0.53	0.75	9.03	370.80	0.000	0.000	452.57	0.00	0.00
22	138.00	APX16DWV-16DWVS-E-A	6	28.489	31.338	0.46	0.75	18.44	293.04	0.000	0.000	924.70	0.00	0.00
23	128.00	Alcatel Lucent -	3	28.042	30.846	0.54	0.80	4.08	204.48	0.000	0.000	201.57	0.00	0.00
24	128.00	Alcatel Lucent -	3	28.042	30.846	0.54	0.80	5.40	198.00	0.000	0.000	266.65	0.00	0.00
25	128.00	Andrew - JAHH-65B-R3B	6	28.042	30.846	0.62	0.75	33.94	455.76	0.000	0.000	1675.24	0.00	0.00
26	128.00	Low Profile Platform	1	28.042	30.846	0.80	0.80	17.60	1800.00	0.000	0.000	868.62	0.00	0.00
27	128.00	Andrew - DB846F65ZAXY	6	28.042	30.846	0.75	0.80	31.81	151.20	0.000	0.000	1569.91	0.00	0.00
28	128.00	RFS - DB-T1-6Z-8AB-OZ -	2	28.042	30.846	0.40	0.80	3.84	45.36	0.000	0.000	189.52	0.00	0.00
29	118.00	7770	6	27.565	30.322	0.62	0.80	20.33	252.00	0.000	0.000	986.22	0.00	0.00
30	118.00	Low Profile Platform	1	27.565	30.322	0.80	0.80	17.60	1800.00	0.000	0.000	853.87	0.00	0.00
31	118.00	P65-16-XLH-RR	3	27.565	30.322	0.63	0.80	15.47	190.80	0.000	0.000	750.60	0.00	0.00
32	118.00	TT19-08BP111-001	3	27.565	30.322	0.54	0.80	1.03	57.60	0.000	0.000	49.93	0.00	0.00
33	118.00	LGP21401	6	27.565	30.322	0.54	0.80	4.15	101.52	0.000	0.000	201.27	0.00	0.00
34	118.00	RRUS-11	6	27.565	30.322	0.40	0.80	6.05	367.20	0.000	0.000	293.42	0.00	0.00
35	118.00	DC6-48-60-18	1	27.565	30.322	0.80	0.80	0.74	38.16	0.000	0.000	35.71	0.00	0.00
36	75.00	GPS	1	25.057	27.563	1.00	1.00	0.01	4.44	0.000	0.000	0.44	0.00	0.00
Totals:								15,711.92	21,681.97					

Total Applied Force Summary

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60

Iterations 24



Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		469.23	2466.56	0.00	0.00
10.00		460.44	2441.87	0.00	0.00
15.00		451.65	2417.18	0.00	0.00
20.00		469.89	2392.49	0.00	0.00
25.00		482.71	2367.80	0.00	0.00
30.00		491.44	2343.12	0.00	0.00
35.00		500.00	2318.43	0.00	0.00
36.00		99.71	460.72	0.00	0.00
39.00		302.40	1376.24	0.00	0.00
40.00		100.84	498.76	0.00	0.00
45.00		510.20	2464.17	0.00	0.00
50.00		510.33	1328.51	0.00	0.00
55.00		509.13	1303.82	0.00	0.00
60.00		506.79	1279.13	0.00	0.00
65.00		503.45	1254.44	0.00	0.00
70.00		499.22	1229.75	0.00	0.00
75.00	(1) attachments	494.64	1209.51	0.00	0.00
79.00		390.74	945.51	0.00	0.00
80.00		98.23	394.44	0.00	0.00
84.00		391.93	1559.67	0.00	0.00
85.00		96.96	201.03	0.00	0.00
90.00		483.00	992.79	0.00	0.00
95.00		475.58	972.22	0.00	0.00
100.00		467.65	951.65	0.00	0.00
105.00		459.25	931.07	0.00	0.00
110.00		450.42	910.50	0.00	0.00
115.00		441.17	889.93	0.00	0.00
118.00	(26) attachments	3430.64	3331.36	0.00	0.00
120.00		170.98	322.78	0.00	0.00
123.00		253.71	478.00	0.00	0.00
125.00		166.97	240.78	0.00	0.00
128.00	(21) attachments	5019.07	3211.64	0.00	0.00
130.00		162.82	214.76	0.00	0.00
135.00		400.54	526.81	0.00	0.00
138.00	(28) attachments	6323.55	4690.97	0.00	0.00
140.00		154.14	182.11	0.00	0.00
145.00		378.29	445.19	0.00	0.00
149.00	(13) attachments	3106.70	1987.38	0.00	0.00
150.00		72.21	75.50	0.00	0.00
155.00		354.93	368.86	0.00	0.00
158.00	(28) attachments	5044.50	4236.41	0.00	1835.06
Totals:		36,156.07	58,213.88	0.00	1,835.06

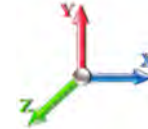
Linear Appurtenance Segment Forces (Factored)

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020	
Site Name: Easton-Everetts Rd	Exposure: C		
Height: 158.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 13



Load Case: 1.2D + 1.6W 93 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
84.00	1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	0.050	0.000	25.662	0.00	29.95
84.00	1 5/8" Fiber	Yes	4.00	0.000	0.00	0.00	0.00	0.050	0.000	25.662	0.00	10.56
85.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.050	0.000	25.726	0.00	7.49
85.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.050	0.000	25.726	0.00	2.64
90.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.051	0.000	26.037	0.00	37.44
90.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.051	0.000	26.037	0.00	13.20
95.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.052	0.000	26.336	0.00	37.44
95.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.052	0.000	26.336	0.00	13.20
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.054	0.000	26.621	0.00	37.44
100.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.054	0.000	26.621	0.00	13.20
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.055	0.000	26.896	0.00	37.44
105.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.055	0.000	26.896	0.00	13.20
110.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.057	0.000	27.161	0.00	37.44
110.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.057	0.000	27.161	0.00	13.20
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.059	0.000	27.416	0.00	37.44
115.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.059	0.000	27.416	0.00	13.20
118.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.060	0.000	27.565	0.00	22.46
118.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.060	0.000	27.565	0.00	7.92
120.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	27.663	0.00	14.98
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	27.663	0.00	5.28
123.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.062	0.000	27.807	0.00	22.46
123.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.062	0.000	27.807	0.00	7.92
125.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	27.902	0.00	14.98
125.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	27.902	0.00	5.28
128.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.064	0.000	28.042	0.00	22.46
128.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	28.042	0.00	7.92
Totals:											0.0	8,582.2

Discrete Appurtenance Forces

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	158.00	Commscope -	3	29.332	32.265	0.62	0.75	16.95	156.60	0.000	0.500	875.21	0.00	437.60
2	158.00	Collar Mount	1	29.313	32.244	1.00	1.00	5.00	315.00	0.000	0.000	257.95	0.00	0.00
3	158.00	Site Pro PRK-1245 (kicker	1	29.313	32.244	1.00	1.00	9.50	418.42	0.000	0.000	490.11	0.00	0.00
4	158.00	Site Pro HRK14	1	29.313	32.244	1.00	1.00	8.13	272.12	0.000	0.000	419.43	0.00	0.00
5	158.00	RFS - APXVSP18-C-A20	3	29.332	32.265	0.62	0.75	14.96	153.90	0.000	0.500	772.27	0.00	386.13
6	158.00	ALU - 800 MHz - RRU	6	29.332	32.265	0.50	0.75	7.51	286.20	0.000	0.500	387.56	0.00	193.78
7	158.00	Low Profile Platform	1	29.332	32.265	0.75	0.75	18.75	1080.00	0.000	0.500	967.96	0.00	483.98
8	158.00	RFS - ACU-A20-N - RET	3	29.332	32.265	0.50	0.75	0.21	2.70	0.000	0.500	10.90	0.00	5.45
9	158.00	ALU - 1900 MHz - RRU	3	29.332	32.265	0.50	0.75	5.73	118.80	0.000	0.500	295.73	0.00	147.87
10	158.00	Alu - 800 Filters	3	29.332	32.265	0.38	0.75	0.88	23.76	0.000	0.500	45.30	0.00	22.65
11	158.00	ALU - TD-RRH8x20-25 -	3	29.332	32.265	0.50	0.75	6.11	189.00	0.000	0.500	315.19	0.00	157.59
12	149.00	Low Profile Platform	1	28.953	31.848	1.00	1.00	25.00	1080.00	0.000	0.000	1273.93	0.00	0.00
13	149.00	DB844H90E-XY	12	28.953	31.848	0.83	0.75	30.19	151.20	0.000	0.000	1538.65	0.00	0.00
14	138.00	Platform w/ HR & V-Brace	1	28.489	31.338	1.00	1.00	51.70	2021.40	0.000	0.000	2592.29	0.00	0.00
15	138.00	782 10663	3	28.489	31.338	0.38	0.75	0.32	14.31	0.000	0.000	15.79	0.00	0.00
16	138.00	Radio 4415 Protruding w/	3	28.489	31.338	0.50	0.75	2.80	133.92	0.000	0.000	140.59	0.00	0.00
17	138.00	RRUS 4415 B25	3	28.489	31.338	0.50	0.75	2.47	124.20	0.000	0.000	123.96	0.00	0.00
18	138.00	4449 B71 + B85	3	28.489	31.338	0.50	0.75	2.97	197.64	0.000	0.000	148.91	0.00	0.00
19	138.00	KRY 112 144/1	3	28.489	31.338	0.38	0.75	0.46	29.70	0.000	0.000	23.13	0.00	0.00
20	138.00	APXVAA24_43-U-A20	3	28.489	31.338	0.55	0.75	33.24	267.30	0.000	0.000	1666.90	0.00	0.00
21	138.00	AIR6449 B41	3	28.489	31.338	0.53	0.75	9.03	278.10	0.000	0.000	452.57	0.00	0.00
22	138.00	APX16DWV-16DWVS-E-A	6	28.489	31.338	0.46	0.75	18.44	219.78	0.000	0.000	924.70	0.00	0.00
23	128.00	Alcatel Lucent -	3	28.042	30.846	0.54	0.80	4.08	153.36	0.000	0.000	201.57	0.00	0.00
24	128.00	Alcatel Lucent -	3	28.042	30.846	0.54	0.80	5.40	148.50	0.000	0.000	266.65	0.00	0.00
25	128.00	Andrew - JAHH-65B-R3B	6	28.042	30.846	0.62	0.75	33.94	341.82	0.000	0.000	1675.24	0.00	0.00
26	128.00	Low Profile Platform	1	28.042	30.846	0.80	0.80	17.60	1350.00	0.000	0.000	868.62	0.00	0.00
27	128.00	Andrew - DB846F65ZAXY	6	28.042	30.846	0.75	0.80	31.81	113.40	0.000	0.000	1569.91	0.00	0.00
28	128.00	RFS - DB-T1-6Z-8AB-OZ -	2	28.042	30.846	0.40	0.80	3.84	34.02	0.000	0.000	189.52	0.00	0.00
29	118.00	7770	6	27.565	30.322	0.62	0.80	20.33	189.00	0.000	0.000	986.22	0.00	0.00
30	118.00	Low Profile Platform	1	27.565	30.322	0.80	0.80	17.60	1350.00	0.000	0.000	853.87	0.00	0.00
31	118.00	P65-16-XLH-RR	3	27.565	30.322	0.63	0.80	15.47	143.10	0.000	0.000	750.60	0.00	0.00
32	118.00	TT19-08BP111-001	3	27.565	30.322	0.54	0.80	1.03	43.20	0.000	0.000	49.93	0.00	0.00
33	118.00	LGP21401	6	27.565	30.322	0.54	0.80	4.15	76.14	0.000	0.000	201.27	0.00	0.00
34	118.00	RRUS-11	6	27.565	30.322	0.40	0.80	6.05	275.40	0.000	0.000	293.42	0.00	0.00
35	118.00	DC6-48-60-18	1	27.565	30.322	0.80	0.80	0.74	28.62	0.000	0.000	35.71	0.00	0.00
36	75.00	GPS	1	25.057	27.563	1.00	1.00	0.01	3.33	0.000	0.000	0.44	0.00	0.00
Totals:								11,783.94	21,681.97					

Total Applied Force Summary

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

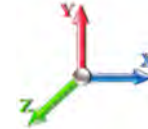


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Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		469.23	1849.92	0.00	0.00
10.00		460.44	1831.40	0.00	0.00
15.00		451.65	1812.89	0.00	0.00
20.00		469.89	1794.37	0.00	0.00
25.00		482.71	1775.85	0.00	0.00
30.00		491.44	1757.34	0.00	0.00
35.00		500.00	1738.82	0.00	0.00
36.00		99.71	345.54	0.00	0.00
39.00		302.40	1032.18	0.00	0.00
40.00		100.84	374.07	0.00	0.00
45.00		510.20	1848.13	0.00	0.00
50.00		510.33	996.38	0.00	0.00
55.00		509.13	977.86	0.00	0.00
60.00		506.79	959.35	0.00	0.00
65.00		503.45	940.83	0.00	0.00
70.00		499.22	922.32	0.00	0.00
75.00	(1) attachments	494.64	907.13	0.00	0.00
79.00		390.74	709.13	0.00	0.00
80.00		98.23	295.83	0.00	0.00
84.00		391.93	1169.75	0.00	0.00
85.00		96.96	150.77	0.00	0.00
90.00		483.00	744.60	0.00	0.00
95.00		475.58	729.17	0.00	0.00
100.00		467.65	713.73	0.00	0.00
105.00		459.25	698.30	0.00	0.00
110.00		450.42	682.87	0.00	0.00
115.00		441.17	667.44	0.00	0.00
118.00	(26) attachments	3430.64	2498.52	0.00	0.00
120.00		170.98	242.09	0.00	0.00
123.00		253.71	358.50	0.00	0.00
125.00		166.97	180.58	0.00	0.00
128.00	(21) attachments	5019.07	2408.73	0.00	0.00
130.00		162.82	161.07	0.00	0.00
135.00		400.54	395.11	0.00	0.00
138.00	(28) attachments	6323.55	3518.23	0.00	0.00
140.00		154.14	136.58	0.00	0.00
145.00		378.29	333.89	0.00	0.00
149.00	(13) attachments	3106.70	1490.54	0.00	0.00
150.00		72.21	56.63	0.00	0.00
155.00		354.93	276.65	0.00	0.00
158.00	(28) attachments	5044.50	3177.31	0.00	1835.06
Totals:		36,156.07	43,660.41	0.00	1,835.06

Linear Appurtenance Segment Forces (Factored)

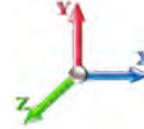
Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020	
Site Name: Easton-Everetts Rd	Exposure: C		
Height: 158.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 18



Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60

Iterations 24



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.090	0.000	17.879	0.00	28.08
5.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	17.879	0.00	9.90
5.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.090	0.000	17.879	0.00	700.56
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.092	0.000	17.879	0.00	28.08
10.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.092	0.000	17.879	0.00	9.90
10.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.092	0.000	17.879	0.00	700.56
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.094	0.000	17.879	0.00	28.08
15.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	17.879	0.00	9.90
15.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.094	0.000	17.879	0.00	700.56
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.096	0.000	18.971	0.00	28.08
20.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.096	0.000	18.971	0.00	9.90
20.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.096	0.000	18.971	0.00	700.56
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.098	0.000	19.883	0.00	28.08
25.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.098	0.000	19.883	0.00	9.90
25.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.098	0.000	19.883	0.00	700.56
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.100	0.000	20.661	0.00	28.08
30.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.100	0.000	20.661	0.00	9.90
30.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.100	0.000	20.661	0.00	700.56
35.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.102	1.006	21.343	0.00	28.08
35.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	21.343	0.00	9.90
35.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.102	1.006	21.343	0.00	700.56
36.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.103	1.010	21.470	0.00	5.62
36.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.103	1.010	21.470	0.00	1.98
36.00	1.25" Reinforcing	Yes	1.00	0.000	3.00	0.25	0.00	0.103	1.010	21.470	0.00	140.11
39.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.104	1.012	21.834	0.00	16.85
39.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.104	1.012	21.834	0.00	5.94
39.00	1.25" Reinforcing	Yes	3.00	0.000	3.00	0.75	0.00	0.104	1.012	21.834	0.00	420.34
40.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.042	0.000	21.951	0.00	5.62
40.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.042	0.000	21.951	0.00	1.98
45.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.042	0.000	22.502	0.00	28.08
45.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	22.502	0.00	9.90
50.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.043	0.000	23.007	0.00	28.08
50.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.043	0.000	23.007	0.00	9.90
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.044	0.000	23.473	0.00	28.08
55.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	23.473	0.00	9.90
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.045	0.000	23.907	0.00	28.08
60.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.045	0.000	23.907	0.00	9.90
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.046	0.000	24.313	0.00	28.08
65.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.046	0.000	24.313	0.00	9.90
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.047	0.000	24.696	0.00	28.08
70.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.047	0.000	24.696	0.00	9.90
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.048	0.000	25.057	0.00	28.08
75.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.048	0.000	25.057	0.00	9.90
79.00	1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	0.049	0.000	25.333	0.00	22.46
79.00	1 5/8" Fiber	Yes	4.00	0.000	0.00	0.00	0.00	0.049	0.000	25.333	0.00	7.92
80.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.050	0.000	25.400	0.00	5.62
80.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.050	0.000	25.400	0.00	1.98

Linear Appurtenance Segment Forces (Factored)

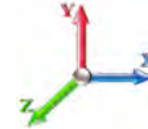
Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020	
Site Name: Easton-Everetts Rd	Exposure: C		
Height: 158.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 19



Load Case: 0.9D + 1.6W 93 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
84.00	1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	0.050	0.000	25.662	0.00	22.46
84.00	1 5/8" Fiber	Yes	4.00	0.000	0.00	0.00	0.00	0.050	0.000	25.662	0.00	7.92
85.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.050	0.000	25.726	0.00	5.62
85.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.050	0.000	25.726	0.00	1.98
90.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.051	0.000	26.037	0.00	28.08
90.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.051	0.000	26.037	0.00	9.90
95.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.052	0.000	26.336	0.00	28.08
95.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.052	0.000	26.336	0.00	9.90
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.054	0.000	26.621	0.00	28.08
100.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.054	0.000	26.621	0.00	9.90
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.055	0.000	26.896	0.00	28.08
105.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.055	0.000	26.896	0.00	9.90
110.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.057	0.000	27.161	0.00	28.08
110.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.057	0.000	27.161	0.00	9.90
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.059	0.000	27.416	0.00	28.08
115.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.059	0.000	27.416	0.00	9.90
118.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.060	0.000	27.565	0.00	16.85
118.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.060	0.000	27.565	0.00	5.94
120.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	27.663	0.00	11.23
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	27.663	0.00	3.96
123.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.062	0.000	27.807	0.00	16.85
123.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.062	0.000	27.807	0.00	5.94
125.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	27.902	0.00	11.23
125.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	27.902	0.00	3.96
128.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.064	0.000	28.042	0.00	16.85
128.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	28.042	0.00	5.94
Totals:											0.0	6,436.7

Discrete Appurtenance Forces

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 22



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	158.00	Commscope -	3	8.478	9.326	0.63	0.75	19.89	735.88	0.000	0.500	185.47	0.00	92.73
2	158.00	Collar Mount	1	8.473	9.320	1.00	1.00	8.51	614.72	0.000	0.000	79.30	0.00	0.00
3	158.00	Site Pro PRK-1245 (kicker	1	8.473	9.320	1.00	1.00	19.50	789.04	0.000	0.000	181.74	0.00	0.00
4	158.00	Site Pro HRK14	1	8.473	9.320	1.00	1.00	16.12	1025.89	0.000	0.000	150.21	0.00	0.00
5	158.00	RFS - APXVSP18-C-A20	3	8.478	9.326	0.64	0.75	20.73	577.96	0.000	0.500	193.37	0.00	96.68
6	158.00	ALU - 800 MHz - RRU	6	8.478	9.326	0.50	0.75	10.97	701.07	0.000	0.500	102.34	0.00	51.17
7	158.00	Low Profile Platform	1	8.478	9.326	0.75	0.75	34.54	2192.58	0.000	0.500	322.12	0.00	161.06
8	158.00	RFS - ACU-A20-N - RET	3	8.478	9.326	0.50	0.75	0.66	12.66	0.000	0.500	6.16	0.00	3.08
9	158.00	ALU - 1900 MHz - RRU	3	8.478	9.326	0.50	0.75	7.83	394.00	0.000	0.500	73.07	0.00	36.54
10	158.00	Alu - 800 Filters	3	8.478	9.326	0.38	0.75	1.61	69.89	0.000	0.500	15.01	0.00	7.50
11	158.00	ALU - TD-RRH8x20-25 -	3	8.478	9.326	0.50	0.75	8.25	480.72	0.000	0.500	76.92	0.00	38.46
12	149.00	Low Profile Platform	1	8.369	9.206	1.00	1.00	45.93	2186.43	0.000	0.000	422.81	0.00	0.00
13	149.00	DB844H90E-XY	12	8.369	9.206	0.81	0.75	37.98	1602.19	0.000	0.000	349.64	0.00	0.00
14	138.00	Platform w/ HR & V-Brace	1	8.235	9.058	1.00	1.00	89.64	4800.96	0.000	0.000	811.98	0.00	0.00
15	138.00	782 10663	3	8.235	9.058	0.38	0.75	0.76	39.08	0.000	0.000	6.91	0.00	0.00
16	138.00	Radio 4415 Protruding w/	3	8.235	9.058	0.50	0.75	3.77	300.08	0.000	0.000	34.19	0.00	0.00
17	138.00	RRUS 4415 B25	3	8.235	9.058	0.50	0.75	3.24	259.69	0.000	0.000	29.37	0.00	0.00
18	138.00	4449 B71 + B85	3	8.235	9.058	0.50	0.75	3.82	260.11	0.000	0.000	34.61	0.00	0.00
19	138.00	KRY 112 144/1	3	8.235	9.058	0.38	0.75	0.99	62.38	0.000	0.000	8.98	0.00	0.00
20	138.00	APXVAA24_43-U-A20	3	8.235	9.058	0.56	0.75	38.88	457.12	0.000	0.000	352.22	0.00	0.00
21	138.00	AIR6449 B41	3	8.235	9.058	0.55	0.75	10.83	683.64	0.000	0.000	98.09	0.00	0.00
22	138.00	APX16DWV-16DWVS-E-A	6	8.235	9.058	0.48	0.75	25.26	788.56	0.000	0.000	228.79	0.00	0.00
23	128.00	Alcatel Lucent -	3	8.105	8.916	0.54	0.80	5.49	412.26	0.000	0.000	48.93	0.00	0.00
24	128.00	Alcatel Lucent -	3	8.105	8.916	0.54	0.80	6.64	391.89	0.000	0.000	59.16	0.00	0.00
25	128.00	Andrew - JAHH-65B-R3B	6	8.105	8.916	0.63	0.75	39.71	1479.20	0.000	0.000	354.05	0.00	0.00
26	128.00	Low Profile Platform	1	8.105	8.916	0.80	0.80	31.51	2788.32	0.000	0.000	280.92	0.00	0.00
27	128.00	Andrew - DB846F65ZAXY	6	8.105	8.916	0.76	0.80	37.76	1398.52	0.000	0.000	336.66	0.00	0.00
28	128.00	RFS - DB-T1-6Z-8AB-OZ -	2	8.105	8.916	0.40	0.80	7.01	229.51	0.000	0.000	62.47	0.00	0.00
29	118.00	7770	6	7.968	8.765	0.64	0.80	25.06	1252.04	0.000	0.000	219.68	0.00	0.00
30	118.00	Low Profile Platform	1	7.968	8.765	0.80	0.80	31.39	2777.88	0.000	0.000	275.16	0.00	0.00
31	118.00	P65-16-XLH-RR	3	7.968	8.765	0.65	0.80	21.18	532.61	0.000	0.000	185.65	0.00	0.00
32	118.00	TT19-08BP111-001	3	7.968	8.765	0.54	0.80	1.96	99.48	0.000	0.000	17.18	0.00	0.00
33	118.00	LGP21401	6	7.968	8.765	0.54	0.80	6.77	205.37	0.000	0.000	59.36	0.00	0.00
34	118.00	RRUS-11	6	7.968	8.765	0.40	0.80	7.53	694.56	0.000	0.000	66.01	0.00	0.00
35	118.00	DC6-48-60-18	1	7.968	8.765	0.80	0.80	1.08	80.82	0.000	0.000	9.45	0.00	0.00
36	75.00	GPS	1	7.243	7.967	1.00	1.00	0.01	8.14	0.000	0.000	0.08	0.00	0.00
Totals:								31,385.22	5,738.04					

Total Applied Force Summary

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



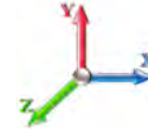
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00

Iterations 23



Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		163.56	3045.02	0.00	0.00
10.00		161.13	3055.07	0.00	0.00
15.00		158.51	3048.10	0.00	0.00
20.00		165.32	3033.66	0.00	0.00
25.00		170.22	3014.92	0.00	0.00
30.00		173.67	2993.35	0.00	0.00
35.00		177.06	2969.75	0.00	0.00
36.00		35.34	590.99	0.00	0.00
39.00		107.29	1766.88	0.00	0.00
40.00		35.77	619.63	0.00	0.00
45.00		181.23	3066.18	0.00	0.00
50.00		181.64	1927.27	0.00	0.00
55.00		181.59	1898.57	0.00	0.00
60.00		181.13	1869.23	0.00	0.00
65.00		180.32	1839.34	0.00	0.00
70.00		179.20	1808.96	0.00	0.00
75.00	(1) attachments	177.88	1786.30	0.00	0.00
79.00		140.87	1399.85	0.00	0.00
80.00		35.41	509.05	0.00	0.00
84.00		141.47	2013.76	0.00	0.00
85.00		35.04	314.27	0.00	0.00
90.00		174.82	1551.92	0.00	0.00
95.00		172.58	1523.97	0.00	0.00
100.00		170.16	1495.76	0.00	0.00
105.00		167.57	1467.32	0.00	0.00
110.00		164.83	1438.65	0.00	0.00
115.00		161.95	1409.79	0.00	0.00
118.00	(26) attachments	928.04	6475.71	0.00	0.00
120.00		63.03	527.34	0.00	0.00
123.00		93.69	781.73	0.00	0.00
125.00		61.77	441.87	0.00	0.00
128.00	(21) attachments	1233.94	7355.01	0.00	0.00
130.00		60.46	350.10	0.00	0.00
135.00		149.16	855.52	0.00	0.00
138.00	(28) attachments	1692.83	8154.50	0.00	0.00
140.00		57.71	309.69	0.00	0.00
145.00		142.09	754.24	0.00	0.00
149.00	(13) attachments	883.39	4375.25	0.00	0.00
150.00		27.30	135.31	0.00	0.00
155.00		134.63	657.81	0.00	0.00
158.00	(28) attachments	1464.53	7978.51	0.00	487.23
Totals:		10,968.10	90,610.18	0.00	487.23

Linear Appurtenance Segment Forces (Factored)

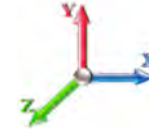
Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 23

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
84.00	1 5/8" Coax	Yes	4.00	0.000	1.98	1.76	0.00	0.050	0.000	7.418	0.00	111.93
84.00	1 5/8" Fiber	Yes	4.00	0.000	0.00	0.00	0.00	0.050	0.000	7.418	0.00	46.98
85.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.44	0.00	0.050	0.000	7.436	0.00	28.01
85.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.050	0.000	7.436	0.00	11.76
90.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.21	0.00	0.051	0.000	7.526	0.00	140.67
90.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.051	0.000	7.526	0.00	59.13
95.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.21	0.00	0.052	0.000	7.612	0.00	141.27
95.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.052	0.000	7.612	0.00	59.46
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.22	0.00	0.054	0.000	7.695	0.00	141.84
100.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.054	0.000	7.695	0.00	59.76
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	0.055	0.000	7.774	0.00	142.38
105.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.055	0.000	7.774	0.00	60.06
110.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	0.057	0.000	7.851	0.00	142.91
110.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.057	0.000	7.851	0.00	60.34
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.24	0.00	0.059	0.000	7.925	0.00	143.41
115.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.059	0.000	7.925	0.00	60.62
118.00	1 5/8" Coax	Yes	3.00	0.000	1.98	1.35	0.00	0.060	0.000	7.968	0.00	86.22
118.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.060	0.000	7.968	0.00	36.47
120.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.061	0.000	7.996	0.00	57.56
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.996	0.00	24.35
123.00	1 5/8" Coax	Yes	3.00	0.000	1.98	1.35	0.00	0.062	0.000	8.038	0.00	86.51
123.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.062	0.000	8.038	0.00	36.62
125.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.063	0.000	8.065	0.00	57.75
125.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	8.065	0.00	24.45
128.00	1 5/8" Coax	Yes	3.00	0.000	1.98	1.35	0.00	0.064	0.000	8.105	0.00	86.78
128.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	8.105	0.00	36.77
Totals:											0.0	12,571.5

Seismic Segment Forces (Factored)

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E

Iterations 22

Gust Response Factor 1.10

Sds 0.23

Ss 0.21

Dead Load Factor 1.20 **Seismic Load Factor** 1.00

Sd1 0.11

S1 0.07

Wind Load Factor 0.00 **Structure Frequency (f1)** 0.29

SA 0.03

Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00	RB1	0.00	0.00	0.00	0.00	0.00	
5.00		1090.4	0.00	0.03	0.02	27.93	
10.00		1069.8	0.01	0.05	0.03	38.49	
15.00		1049.2	0.02	0.06	0.04	43.00	
20.00		1028.6	0.03	0.07	0.04	44.78	
25.00		1008.1	0.05	0.07	0.04	45.37	
30.00		987.54	0.07	0.07	0.04	45.52	
35.00		966.96	0.09	0.07	0.04	45.61	
36.00	RT1	190.92	0.10	0.07	0.04	9.05	
39.00	Bot - Section 2	567.83	0.12	0.07	0.04	27.31	
40.00		378.30	0.12	0.07	0.03	18.28	
45.00	Top - Section 1	1866.8	0.15	0.07	0.03	92.26	
50.00		920.43	0.19	0.06	0.02	46.12	
55.00		899.86	0.23	0.06	0.02	44.77	
60.00		879.28	0.27	0.05	0.01	41.73	
65.00		858.71	0.32	0.04	0.01	36.08	
70.00		838.13	0.37	0.03	0.01	26.95	
75.00	Appurtenance(s)	821.26	0.43	0.01	0.01	14.10	
79.00	Bot - Section 3	639.24	0.47	-0.01	0.01	1.33	
80.00		291.53	0.48	-0.01	0.01	-0.56	
84.00	Top - Section 2	1151.0	0.53	-0.03	0.01	-20.80	
85.00		130.35	0.55	-0.03	0.01	-2.86	
90.00		641.47	0.61	-0.06	0.02	-25.00	
95.00		624.32	0.68	-0.08	0.03	-31.51	
100.00		607.18	0.76	-0.10	0.04	-33.80	
105.00		590.03	0.83	-0.12	0.06	-32.32	
110.00		572.89	0.92	-0.12	0.09	-27.62	
115.00		555.74	1.00	-0.11	0.13	-20.18	
118.00	Appurtenance(s)	2664.6	1.05	-0.09	0.16	-71.04	
120.00		213.38	1.09	-0.08	0.18	-4.10	
123.00	Top - Section 3	314.93	1.15	-0.04	0.22	-2.04	
125.00		145.04	1.18	-0.01	0.24	0.44	
128.00	Appurtenance(s)	2592.9	1.24	0.05	0.29	49.03	
130.00		140.24	1.28	0.09	0.32	4.28	
135.00		342.20	1.38	0.25	0.41	21.66	
138.00	Appurtenance(s)	3851.0	1.44	0.37	0.48	329.45	
140.00		130.64	1.48	0.46	0.52	13.26	
145.00		318.19	1.59	0.75	0.66	46.22	
149.00	Appurtenance(s)	1613.9	1.68	1.05	0.79	297.53	
150.00		60.28	1.70	1.14	0.82	11.74	
155.00		294.18	1.82	1.63	1.01	73.56	
158.00	Appurtenance(s)	3522.4	1.89	1.98	1.14	1007.77	
Totals:		37,430.2				2,231.8	
						Total Wind:	36,156.1

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Seismic Segment Forces (Factored)

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 29

Load Case: 0.9D + 1.0E

Iterations 22

Gust Response Factor 1.10

Sds 0.23

Ss 0.21

Dead Load Factor 0.90 **Seismic Load Factor** 1.00

Sd1 0.11

S1 0.07

Wind Load Factor 0.00 **Structure Frequency (f1)** 0.29

SA 0.03

Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00	RB1	0.00	0.00	0.00	0.00	0.00	
5.00		1090.4	0.00	0.03	0.02	27.93	
10.00		1069.8	0.01	0.05	0.03	38.49	
15.00		1049.2	0.02	0.06	0.04	43.00	
20.00		1028.6	0.03	0.07	0.04	44.78	
25.00		1008.1	0.05	0.07	0.04	45.37	
30.00		987.54	0.07	0.07	0.04	45.52	
35.00		966.96	0.09	0.07	0.04	45.61	
36.00	RT1	190.92	0.10	0.07	0.04	9.05	
39.00	Bot - Section 2	567.83	0.12	0.07	0.04	27.31	
40.00		378.30	0.12	0.07	0.03	18.28	
45.00	Top - Section 1	1866.8	0.15	0.07	0.03	92.26	
50.00		920.43	0.19	0.06	0.02	46.12	
55.00		899.86	0.23	0.06	0.02	44.77	
60.00		879.28	0.27	0.05	0.01	41.73	
65.00		858.71	0.32	0.04	0.01	36.08	
70.00		838.13	0.37	0.03	0.01	26.95	
75.00	Appurtenance(s)	821.26	0.43	0.01	0.01	14.10	
79.00	Bot - Section 3	639.24	0.47	-0.01	0.01	1.33	
80.00		291.53	0.48	-0.01	0.01	-0.56	
84.00	Top - Section 2	1151.0	0.53	-0.03	0.01	-20.80	
85.00		130.35	0.55	-0.03	0.01	-2.86	
90.00		641.47	0.61	-0.06	0.02	-25.00	
95.00		624.32	0.68	-0.08	0.03	-31.51	
100.00		607.18	0.76	-0.10	0.04	-33.80	
105.00		590.03	0.83	-0.12	0.06	-32.32	
110.00		572.89	0.92	-0.12	0.09	-27.62	
115.00		555.74	1.00	-0.11	0.13	-20.18	
118.00	Appurtenance(s)	2664.6	1.05	-0.09	0.16	-71.04	
120.00		213.38	1.09	-0.08	0.18	-4.10	
123.00	Top - Section 3	314.93	1.15	-0.04	0.22	-2.04	
125.00		145.04	1.18	-0.01	0.24	0.44	
128.00	Appurtenance(s)	2592.9	1.24	0.05	0.29	49.03	
130.00		140.24	1.28	0.09	0.32	4.28	
135.00		342.20	1.38	0.25	0.41	21.66	
138.00	Appurtenance(s)	3851.0	1.44	0.37	0.48	329.45	
140.00		130.64	1.48	0.46	0.52	13.26	
145.00		318.19	1.59	0.75	0.66	46.22	
149.00	Appurtenance(s)	1613.9	1.68	1.05	0.79	297.53	
150.00		60.28	1.70	1.14	0.82	11.74	
155.00		294.18	1.82	1.63	1.01	73.56	
158.00	Appurtenance(s)	3522.4	1.89	1.98	1.14	1007.77	
Totals:		37,430.2				2,231.8	
						Total Wind:	36,156.1

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020	
Site Name: Easton-Everetts Rd	Exposure: C		
Height: 158.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 30



Load Case: 0.9D + 1.0E

Iterations 22

Gust Response Factor 1.10

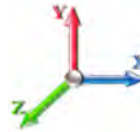
Sds 0.23

Ss 0.21

Dead Load Factor 0.90 **Seismic Load Factor** 1.00 **Sd1** 0.11

S1 0.07

Wind Load Factor 0.00 **Structure Frequency (f1)** 0.29 **SA** 0.03 **Seismic Importance Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-43.66	-2.51	0.00	-316.52	0.00	316.52	4238.25	2119.12	9474.98	4744.53		0.00	0.00	0.047
5.00	-41.81	-2.49	0.00	-303.98	0.00	303.98	4191.13	2095.57	9193.31	4603.49		0.01	-0.01	0.046
10.00	-39.98	-2.46	0.00	-291.54	0.00	291.54	4142.79	2071.40	8912.98	4463.11		0.02	-0.02	0.045
15.00	-38.16	-2.42	0.00	-279.26	0.00	279.26	4093.23	2046.62	8634.14	4323.49		0.05	-0.03	0.044
20.00	-36.37	-2.38	0.00	-267.16	0.00	267.16	4042.45	2021.22	8356.93	4184.68		0.10	-0.05	0.043
25.00	-34.59	-2.34	0.00	-255.25	0.00	255.25	3990.44	1995.22	8081.53	4046.77		0.15	-0.06	0.042
30.00	-32.84	-2.30	0.00	-243.54	0.00	243.54	3937.21	1968.60	7808.07	3909.84		0.22	-0.07	0.041
35.00	-31.10	-2.26	0.00	-232.04	0.00	232.04	3882.75	1941.38	7536.73	3773.96		0.29	-0.08	0.040
36.00	-30.75	-2.25	0.00	-229.78	0.00	229.78	3871.71	1935.86	7482.72	3746.92		0.31	-0.08	0.040
36.00	-30.75	-2.25	0.00	-229.78	0.00	229.78	3871.71	1935.86	7482.72	3746.92		0.31	-0.08	0.040
39.00	-29.72	-2.22	0.00	-223.03	0.00	223.03	3838.31	1919.15	7321.27	3666.08		0.36	-0.09	0.069
40.00	-29.34	-2.21	0.00	-220.81	0.00	220.81	3827.07	1913.54	7267.64	3639.22		0.38	-0.09	0.068
45.00	-27.50	-2.13	0.00	-209.75	0.00	209.75	3812.30	1906.15	7197.58	3604.14		0.49	-0.11	0.065
50.00	-26.50	-2.09	0.00	-199.12	0.00	199.12	3755.07	1877.54	6931.57	3470.94		0.63	-0.14	0.064
55.00	-25.52	-2.05	0.00	-188.69	0.00	188.69	3696.63	1848.32	6668.16	3339.04		0.78	-0.16	0.063
60.00	-24.56	-2.01	0.00	-178.45	0.00	178.45	3636.96	1818.48	6407.52	3208.52		0.95	-0.18	0.062
65.00	-23.62	-1.98	0.00	-168.38	0.00	168.38	3576.08	1788.04	6149.79	3079.47		1.15	-0.20	0.061
70.00	-22.70	-1.96	0.00	-158.47	0.00	158.47	3513.96	1756.98	5895.14	2951.95		1.37	-0.22	0.060
75.00	-21.79	-1.95	0.00	-148.67	0.00	148.67	3450.63	1725.31	5643.71	2826.05		1.61	-0.24	0.059
79.00	-21.08	-1.95	0.00	-140.86	0.00	140.86	3399.08	1699.54	5445.00	2726.55		1.81	-0.26	0.058
80.00	-20.78	-1.95	0.00	-138.92	0.00	138.92	3386.07	1693.03	5395.67	2701.84		1.87	-0.26	0.058
84.00	-19.61	-1.95	0.00	-131.11	0.00	131.11	2492.17	1246.08	3964.65	1985.27		2.09	-0.28	0.074
85.00	-19.46	-1.95	0.00	-129.15	0.00	129.15	2483.20	1241.60	3929.49	1967.67		2.15	-0.28	0.073
90.00	-18.72	-1.96	0.00	-119.38	0.00	119.38	2437.73	1218.86	3754.97	1880.28		2.46	-0.31	0.071
95.00	-17.99	-1.96	0.00	-109.58	0.00	109.58	2391.17	1195.58	3582.65	1793.99		2.80	-0.33	0.069
100.00	-17.27	-1.97	0.00	-99.77	0.00	99.77	2343.52	1171.76	3412.67	1708.87		3.16	-0.36	0.066
105.00	-16.57	-1.97	0.00	-89.94	0.00	89.94	2294.79	1147.40	3245.17	1624.99		3.55	-0.38	0.063
110.00	-15.89	-1.97	0.00	-80.10	0.00	80.10	2244.98	1122.49	3080.27	1542.43		3.96	-0.40	0.059
115.00	-15.22	-1.97	0.00	-70.25	0.00	70.25	2194.08	1097.04	2918.13	1461.23		4.39	-0.43	0.055
118.00	-12.72	-1.95	0.00	-64.34	0.00	64.34	2163.02	1081.51	2822.22	1413.21		4.67	-0.44	0.051
120.00	-12.48	-1.95	0.00	-60.43	0.00	60.43	2136.45	1068.22	2751.59	1377.84		4.85	-0.45	0.050
123.00	-12.12	-1.95	0.00	-54.57	0.00	54.57	2094.98	1047.49	2645.31	1324.62		5.14	-0.46	0.047
123.00	-12.12	-1.95	0.00	-54.57	0.00	54.57	1330.70	665.35	1690.49	846.50		5.14	-0.46	0.074
125.00	-11.94	-1.95	0.00	-50.66	0.00	50.66	1319.70	659.85	1654.32	828.39		5.34	-0.47	0.070
128.00	-9.53	-1.89	0.00	-44.80	0.00	44.80	1302.88	651.44	1600.34	801.36		5.64	-0.49	0.063
130.00	-9.37	-1.88	0.00	-41.03	0.00	41.03	1291.45	645.73	1564.57	783.45		5.84	-0.50	0.060
135.00	-8.97	-1.86	0.00	-31.61	0.00	31.61	1262.12	631.06	1475.93	739.06		6.38	-0.52	0.050
138.00	-5.46	-1.50	0.00	-26.02	0.00	26.02	1244.00	622.00	1423.34	712.73		6.71	-0.53	0.041
140.00	-5.32	-1.49	0.00	-23.02	0.00	23.02	1231.70	615.85	1388.54	695.30		6.93	-0.54	0.037
145.00	-4.99	-1.44	0.00	-15.58	0.00	15.58	1200.20	600.10	1302.53	652.23		7.51	-0.55	0.028
149.00	-3.50	-1.13	0.00	-9.82	0.00	9.82	1174.22	587.11	1234.81	618.32		7.98	-0.56	0.019
150.00	-3.44	-1.12	0.00	-8.70	0.00	8.70	1167.61	583.81	1218.04	609.93		8.09	-0.57	0.017
155.00	-3.17	-1.04	0.00	-3.12	0.00	3.12	1133.94	566.97	1135.21	568.45		8.69	-0.57	0.008
158.00	0.00	-1.01	0.00	0.00	0.00	0.00	1113.22	556.61	1086.36	543.99		9.05	-0.57	0.000

Wind Loading - Shaft

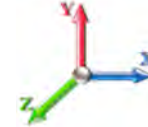
Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020	
Site Name: Easton-Everetts Rd	Exposure: C		
Height: 158.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 31



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 23

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1	1.00	0.85	7.442	8.19	256.18	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	251.43	0.650	0.000	5.00	22.941	14.91	122.1	0.0	1090.4
10.00		1.00	0.85	7.442	8.19	246.67	0.650	0.000	5.00	22.511	14.63	119.8	0.0	1069.8
15.00		1.00	0.85	7.442	8.19	241.92	0.650	0.000	5.00	22.081	14.35	117.5	0.0	1049.3
20.00		1.00	0.90	7.896	8.69	244.29	0.650	0.000	5.00	21.651	14.07	122.2	0.0	1028.7
25.00		1.00	0.95	8.276	9.10	245.08	0.650	0.000	5.00	21.222	13.79	125.6	0.0	1008.1
30.00		1.00	0.98	8.600	9.46	244.72	0.650	0.000	5.00	20.792	13.51	127.8	0.0	987.5
35.00		1.00	1.01	8.883	9.77	243.53	0.654 *	0.000	5.00	20.362	13.31	130.1	0.0	967.0
36.00	RT1	1.00	1.02	8.936	9.83	243.21	0.656 *	0.000	1.00	4.021	2.64	25.9	0.0	190.9
39.00	Bot - Section 2	1.00	1.04	9.088	10.00	242.11	0.658 *	0.000	3.00	11.959	7.87	78.7	0.0	567.8
40.00		1.00	1.04	9.137	10.05	241.71	0.650	0.000	1.00	4.015	2.61	26.2	0.0	378.3
45.00	Top - Section 1	1.00	1.07	9.366	10.30	239.39	0.650	0.000	5.00	19.820	12.88	132.7	0.0	1866.8
50.00		1.00	1.09	9.576	10.53	240.64	0.650	0.000	5.00	19.390	12.60	132.8	0.0	920.4
55.00		1.00	1.12	9.770	10.75	237.62	0.650	0.000	5.00	18.960	12.32	132.4	0.0	899.9
60.00		1.00	1.14	9.951	10.95	234.31	0.650	0.000	5.00	18.530	12.04	131.8	0.0	879.3
65.00		1.00	1.16	10.120	11.13	230.74	0.650	0.000	5.00	18.100	11.77	131.0	0.0	858.7
70.00		1.00	1.17	10.279	11.31	226.96	0.650	0.000	5.00	17.670	11.49	129.9	0.0	838.1
75.00	Appurtenance(s)	1.00	1.19	10.430	11.47	222.99	0.650	0.000	5.00	17.240	11.21	128.6	0.0	817.6
79.00	Bot - Section 3	1.00	1.20	10.544	11.60	219.68	0.650	0.000	4.00	13.483	8.76	101.6	0.0	639.2
80.00		1.00	1.21	10.572	11.63	218.84	0.650	0.000	1.00	3.381	2.20	25.6	0.0	291.5
84.00	Top - Section 2	1.00	1.22	10.681	11.75	215.41	0.650	0.000	4.00	13.350	8.68	102.0	0.0	1151.0
85.00		1.00	1.22	10.708	11.78	218.04	0.650	0.000	1.00	3.295	2.14	25.2	0.0	130.4
90.00		1.00	1.24	10.838	11.92	213.62	0.650	0.000	5.00	16.215	10.54	125.7	0.0	641.5
95.00		1.00	1.25	10.962	12.06	209.07	0.650	0.000	5.00	15.785	10.26	123.7	0.0	624.3
100.00		1.00	1.27	11.081	12.19	204.40	0.650	0.000	5.00	15.356	9.98	121.7	0.0	607.2
105.00		1.00	1.28	11.195	12.31	199.62	0.650	0.000	5.00	14.926	9.70	119.5	0.0	590.0
110.00		1.00	1.29	11.305	12.44	194.74	0.650	0.000	5.00	14.496	9.42	117.2	0.0	572.9
115.00		1.00	1.30	11.412	12.55	189.76	0.650	0.000	5.00	14.066	9.14	114.8	0.0	555.7
118.00	Appurtenance(s)	1.00	1.31	11.474	12.62	186.73	0.650	0.000	3.00	8.233	5.35	67.5	0.0	325.2
120.00		1.00	1.32	11.514	12.67	184.70	0.650	0.000	2.00	5.403	3.51	44.5	0.0	213.4
123.00	Top - Section 3	1.00	1.32	11.574	12.73	181.62	0.650	0.000	3.00	7.975	5.18	66.0	0.0	314.9
125.00		1.00	1.33	11.614	12.78	179.55	0.650	0.000	2.00	5.231	3.40	43.4	0.0	145.0
128.00	Appurtenance(s)	1.00	1.33	11.672	12.84	176.43	0.650	0.000	3.00	7.717	5.02	64.4	0.0	214.0
130.00		1.00	1.34	11.710	12.88	174.33	0.650	0.000	2.00	5.059	3.29	42.4	0.0	140.2
135.00		1.00	1.35	11.803	12.98	169.03	0.650	0.000	5.00	12.347	8.03	104.2	0.0	342.2
138.00	Appurtenance(s)	1.00	1.35	11.858	13.04	165.82	0.650	0.000	3.00	7.202	4.68	61.1	0.0	199.6
140.00		1.00	1.36	11.894	13.08	163.67	0.650	0.000	2.00	4.715	3.06	40.1	0.0	130.6
145.00		1.00	1.37	11.982	13.18	158.24	0.650	0.000	5.00	11.487	7.47	98.4	0.0	318.2
149.00	Appurtenance(s)	1.00	1.38	12.051	13.26	153.85	0.650	0.000	4.00	8.880	5.77	76.5	0.0	245.9
150.00		1.00	1.38	12.068	13.27	152.75	0.650	0.000	1.00	2.177	1.42	18.8	0.0	60.3
155.00		1.00	1.39	12.152	13.37	147.20	0.650	0.000	5.00	10.627	6.91	92.3	0.0	294.2
158.00	Appurtenance(s)	1.00	1.39	12.201	13.42	143.84	0.650	0.000	3.00	6.170	4.01	53.8	0.0	170.7
Totals:									158.00			3,765.4		24,336.9

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 32



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	158.00	Commscope -	3	12.209	13.430	0.62	0.75	16.95	174.00	0.000	0.500	227.68	0.00	113.84
2	158.00	Collar Mount	1	12.201	13.421	1.00	1.00	5.00	350.00	0.000	0.000	67.10	0.00	0.00
3	158.00	Site Pro PRK-1245 (kicker	1	12.201	13.421	1.00	1.00	9.50	464.91	0.000	0.000	127.50	0.00	0.00
4	158.00	Site Pro HRK14	1	12.201	13.421	1.00	1.00	8.13	302.36	0.000	0.000	109.11	0.00	0.00
5	158.00	RFS - APXVSP18-C-A20	3	12.209	13.430	0.62	0.75	14.96	171.00	0.000	0.500	200.90	0.00	100.45
6	158.00	ALU - 800 MHz - RRU	6	12.209	13.430	0.50	0.75	7.51	318.00	0.000	0.500	100.82	0.00	50.41
7	158.00	Low Profile Platform	1	12.209	13.430	0.75	0.75	18.75	1200.00	0.000	0.500	251.81	0.00	125.91
8	158.00	RFS - ACU-A20-N - RET	3	12.209	13.430	0.50	0.75	0.21	3.00	0.000	0.500	2.83	0.00	1.42
9	158.00	ALU - 1900 MHz - RRU	3	12.209	13.430	0.50	0.75	5.73	132.00	0.000	0.500	76.93	0.00	38.47
10	158.00	Alu - 800 Filters	3	12.209	13.430	0.38	0.75	0.88	26.40	0.000	0.500	11.78	0.00	5.89
11	158.00	ALU - TD-RRH8x20-25 -	3	12.209	13.430	0.50	0.75	6.11	210.00	0.000	0.500	81.99	0.00	41.00
12	149.00	Low Profile Platform	1	12.051	13.256	1.00	1.00	25.00	1200.00	0.000	0.000	331.41	0.00	0.00
13	149.00	DB844H90E-XY	12	12.051	13.256	0.83	0.75	30.19	168.00	0.000	0.000	400.27	0.00	0.00
14	138.00	Platform w/ HR & V-Brace	1	11.858	13.044	1.00	1.00	51.70	2246.00	0.000	0.000	674.37	0.00	0.00
15	138.00	782 10663	3	11.858	13.044	0.38	0.75	0.32	15.90	0.000	0.000	4.11	0.00	0.00
16	138.00	Radio 4415 Protruding w/	3	11.858	13.044	0.50	0.75	2.80	148.80	0.000	0.000	36.57	0.00	0.00
17	138.00	RRUS 4415 B25	3	11.858	13.044	0.50	0.75	2.47	138.00	0.000	0.000	32.25	0.00	0.00
18	138.00	4449 B71 + B85	3	11.858	13.044	0.50	0.75	2.97	219.60	0.000	0.000	38.74	0.00	0.00
19	138.00	KRY 112 144/1	3	11.858	13.044	0.38	0.75	0.46	33.00	0.000	0.000	6.02	0.00	0.00
20	138.00	APXVAA24_43-U-A20	3	11.858	13.044	0.55	0.75	33.24	297.00	0.000	0.000	433.64	0.00	0.00
21	138.00	AIR6449 B41	3	11.858	13.044	0.53	0.75	9.03	309.00	0.000	0.000	117.73	0.00	0.00
22	138.00	APX16DWV-16DWVS-E-A	6	11.858	13.044	0.46	0.75	18.44	244.20	0.000	0.000	240.56	0.00	0.00
23	128.00	Alcatel Lucent -	3	11.672	12.839	0.54	0.80	4.08	170.40	0.000	0.000	52.44	0.00	0.00
24	128.00	Alcatel Lucent -	3	11.672	12.839	0.54	0.80	5.40	165.00	0.000	0.000	69.37	0.00	0.00
25	128.00	Andrew - JAHH-65B-R3B	6	11.672	12.839	0.62	0.75	33.94	379.80	0.000	0.000	435.81	0.00	0.00
26	128.00	Low Profile Platform	1	11.672	12.839	0.80	0.80	17.60	1500.00	0.000	0.000	225.97	0.00	0.00
27	128.00	Andrew - DB846F65ZAXY	6	11.672	12.839	0.75	0.80	31.81	126.00	0.000	0.000	408.40	0.00	0.00
28	128.00	RFS - DB-T1-6Z-8AB-OZ -	2	11.672	12.839	0.40	0.80	3.84	37.80	0.000	0.000	49.30	0.00	0.00
29	118.00	7770	6	11.474	12.621	0.62	0.80	20.33	210.00	0.000	0.000	256.56	0.00	0.00
30	118.00	Low Profile Platform	1	11.474	12.621	0.80	0.80	17.60	1500.00	0.000	0.000	222.13	0.00	0.00
31	118.00	P65-16-XLH-RR	3	11.474	12.621	0.63	0.80	15.47	159.00	0.000	0.000	195.26	0.00	0.00
32	118.00	TT19-08BP111-001	3	11.474	12.621	0.54	0.80	1.03	48.00	0.000	0.000	12.99	0.00	0.00
33	118.00	LGP21401	6	11.474	12.621	0.54	0.80	4.15	84.60	0.000	0.000	52.36	0.00	0.00
34	118.00	RRUS-11	6	11.474	12.621	0.40	0.80	6.05	306.00	0.000	0.000	76.33	0.00	0.00
35	118.00	DC6-48-60-18	1	11.474	12.621	0.80	0.80	0.74	31.80	0.000	0.000	9.29	0.00	0.00
36	75.00	GPS	1	10.430	11.473	1.00	1.00	0.01	3.70	0.000	0.000	0.11	0.00	0.00
Totals:								13,093.27	5,640.47					

Total Applied Force Summary

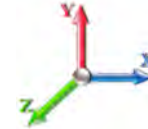
Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		122.07	2055.46	0.00	0.00
10.00		119.78	2034.89	0.00	0.00
15.00		117.49	2014.32	0.00	0.00
20.00		122.24	1993.74	0.00	0.00
25.00		125.58	1973.17	0.00	0.00
30.00		127.85	1952.60	0.00	0.00
35.00		130.07	1932.02	0.00	0.00
36.00		25.94	383.94	0.00	0.00
39.00		78.67	1146.87	0.00	0.00
40.00		26.23	415.63	0.00	0.00
45.00		132.73	2053.48	0.00	0.00
50.00		132.76	1107.09	0.00	0.00
55.00		132.45	1086.52	0.00	0.00
60.00		131.84	1065.94	0.00	0.00
65.00		130.97	1045.37	0.00	0.00
70.00		129.87	1024.79	0.00	0.00
75.00	(1) attachments	128.68	1007.92	0.00	0.00
79.00		101.65	787.92	0.00	0.00
80.00		25.55	328.70	0.00	0.00
84.00		101.96	1299.73	0.00	0.00
85.00		25.22	167.52	0.00	0.00
90.00		125.65	827.33	0.00	0.00
95.00		123.72	810.18	0.00	0.00
100.00		121.66	793.04	0.00	0.00
105.00		119.47	775.89	0.00	0.00
110.00		117.17	758.75	0.00	0.00
115.00		114.77	741.60	0.00	0.00
118.00	(26) attachments	892.47	2776.13	0.00	0.00
120.00		44.48	268.99	0.00	0.00
123.00		66.00	398.34	0.00	0.00
125.00		43.44	200.65	0.00	0.00
128.00	(21) attachments	1305.69	2676.37	0.00	0.00
130.00		42.36	178.97	0.00	0.00
135.00		104.20	439.01	0.00	0.00
138.00	(28) attachments	1645.04	3909.14	0.00	0.00
140.00		40.10	151.76	0.00	0.00
145.00		98.41	370.99	0.00	0.00
149.00	(13) attachments	808.20	1656.15	0.00	0.00
150.00		18.78	62.92	0.00	0.00
155.00		92.33	307.38	0.00	0.00
158.00	(28) attachments	1312.31	3530.34	0.00	477.38
Totals:		9,405.84	48,511.57	0.00	477.38

Linear Appurtenance Segment Forces (Factored)

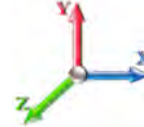
Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020	
Site Name: Easton-Everetts Rd	Exposure: C		
Height: 158.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 34



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00

Iterations 23



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.090	0.000	7.442	0.00	31.20
5.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	7.442	0.00	11.00
5.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.090	0.000	7.442	0.00	778.40
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.092	0.000	7.442	0.00	31.20
10.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.092	0.000	7.442	0.00	11.00
10.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.092	0.000	7.442	0.00	778.40
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.094	0.000	7.442	0.00	31.20
15.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	7.442	0.00	11.00
15.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.094	0.000	7.442	0.00	778.40
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.096	0.000	7.896	0.00	31.20
20.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.096	0.000	7.896	0.00	11.00
20.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.096	0.000	7.896	0.00	778.40
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.098	0.000	8.276	0.00	31.20
25.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.098	0.000	8.276	0.00	11.00
25.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.098	0.000	8.276	0.00	778.40
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.100	0.000	8.600	0.00	31.20
30.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.100	0.000	8.600	0.00	11.00
30.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.100	0.000	8.600	0.00	778.40
35.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.102	1.006	8.883	0.00	31.20
35.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.006	8.883	0.00	11.00
35.00	1.25" Reinforcing	Yes	5.00	0.000	3.00	1.25	0.00	0.102	1.006	8.883	0.00	778.40
36.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.103	1.010	8.936	0.00	6.24
36.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.103	1.010	8.936	0.00	2.20
36.00	1.25" Reinforcing	Yes	1.00	0.000	3.00	0.25	0.00	0.103	1.010	8.936	0.00	155.68
39.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.104	1.012	9.088	0.00	18.72
39.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.104	1.012	9.088	0.00	6.60
39.00	1.25" Reinforcing	Yes	3.00	0.000	3.00	0.75	0.00	0.104	1.012	9.088	0.00	467.04
40.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.042	0.000	9.137	0.00	6.24
40.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.042	0.000	9.137	0.00	2.20
45.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.042	0.000	9.366	0.00	31.20
45.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.042	0.000	9.366	0.00	11.00
50.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.043	0.000	9.576	0.00	31.20
50.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.043	0.000	9.576	0.00	11.00
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.044	0.000	9.770	0.00	31.20
55.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.044	0.000	9.770	0.00	11.00
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.045	0.000	9.951	0.00	31.20
60.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.045	0.000	9.951	0.00	11.00
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.046	0.000	10.120	0.00	31.20
65.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.046	0.000	10.120	0.00	11.00
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.047	0.000	10.279	0.00	31.20
70.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.047	0.000	10.279	0.00	11.00
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.048	0.000	10.430	0.00	31.20
75.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.048	0.000	10.430	0.00	11.00
79.00	1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	0.049	0.000	10.544	0.00	24.96
79.00	1 5/8" Fiber	Yes	4.00	0.000	0.00	0.00	0.00	0.049	0.000	10.544	0.00	8.80
80.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.050	0.000	10.572	0.00	6.24
80.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.050	0.000	10.572	0.00	2.20

Linear Appurtenance Segment Forces (Factored)

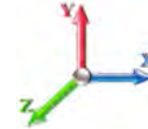
Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
84.00	1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	0.050	0.000	10.681	0.00	24.96
84.00	1 5/8" Fiber	Yes	4.00	0.000	0.00	0.00	0.00	0.050	0.000	10.681	0.00	8.80
85.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.050	0.000	10.708	0.00	6.24
85.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.050	0.000	10.708	0.00	2.20
90.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.051	0.000	10.838	0.00	31.20
90.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.051	0.000	10.838	0.00	11.00
95.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.052	0.000	10.962	0.00	31.20
95.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.052	0.000	10.962	0.00	11.00
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.054	0.000	11.081	0.00	31.20
100.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.054	0.000	11.081	0.00	11.00
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.055	0.000	11.195	0.00	31.20
105.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.055	0.000	11.195	0.00	11.00
110.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.057	0.000	11.305	0.00	31.20
110.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.057	0.000	11.305	0.00	11.00
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.059	0.000	11.412	0.00	31.20
115.00	1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	0.059	0.000	11.412	0.00	11.00
118.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.060	0.000	11.474	0.00	18.72
118.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.060	0.000	11.474	0.00	6.60
120.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	11.514	0.00	12.48
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	11.514	0.00	4.40
123.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.062	0.000	11.574	0.00	18.72
123.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.062	0.000	11.574	0.00	6.60
125.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	11.614	0.00	12.48
125.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	11.614	0.00	4.40
128.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.064	0.000	11.672	0.00	18.72
128.00	1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	0.064	0.000	11.672	0.00	6.60
Totals:											0.0	7,151.8

Calculated Forces

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 36

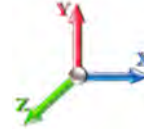


Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

Dead Load Factor 1.00

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-48.51	-9.42	0.00	-1114.3	0.00	1114.39	4238.25	2119.12	9474.98	4744.53	0.00	0.000	0.000	0.151
5.00	-46.45	-9.33	0.00	-1067.2	0.00	1067.28	4191.13	2095.57	9193.31	4603.49	0.02	-0.040	0.000	0.148
10.00	-44.41	-9.24	0.00	-1020.6	0.00	1020.62	4142.79	2071.40	8912.98	4463.11	0.08	-0.079	0.000	0.145
15.00	-42.38	-9.15	0.00	-974.42	0.00	974.42	4093.23	2046.62	8634.14	4323.49	0.19	-0.119	0.000	0.141
20.00	-40.38	-9.05	0.00	-928.67	0.00	928.67	4042.45	2021.22	8356.93	4184.68	0.33	-0.159	0.000	0.138
25.00	-38.41	-8.95	0.00	-883.42	0.00	883.42	3990.44	1995.22	8081.53	4046.77	0.52	-0.199	0.000	0.134
30.00	-36.45	-8.84	0.00	-838.69	0.00	838.69	3937.21	1968.60	7808.07	3909.84	0.75	-0.240	0.000	0.131
35.00	-34.51	-8.71	0.00	-794.52	0.00	794.52	3882.75	1941.38	7536.73	3773.96	1.03	-0.280	0.000	0.127
36.00	-34.13	-8.69	0.00	-785.80	0.00	785.80	3871.71	1935.86	7482.72	3746.92	1.09	-0.288	0.000	0.126
36.00	-34.13	-8.69	0.00	-785.80	0.00	785.80	3871.71	1935.86	7482.72	3746.92	1.09	-0.288	0.000	0.126
39.00	-32.98	-8.62	0.00	-759.72	0.00	759.72	3838.31	1919.15	7321.27	3666.08	1.27	-0.312	0.000	0.216
40.00	-32.56	-8.62	0.00	-751.10	0.00	751.10	3827.07	1913.54	7267.64	3639.22	1.34	-0.327	0.000	0.215
45.00	-30.49	-8.51	0.00	-708.03	0.00	708.03	3812.30	1906.15	7197.58	3604.14	1.72	-0.396	0.000	0.204
50.00	-29.38	-8.40	0.00	-665.49	0.00	665.49	3755.07	1877.54	6931.57	3470.94	2.17	-0.467	0.000	0.200
55.00	-28.28	-8.29	0.00	-623.49	0.00	623.49	3696.63	1848.32	6668.16	3339.04	2.70	-0.534	0.000	0.194
60.00	-27.21	-8.18	0.00	-582.02	0.00	582.02	3636.96	1818.48	6407.52	3208.52	3.29	-0.601	0.000	0.189
65.00	-26.15	-8.07	0.00	-541.11	0.00	541.11	3576.08	1788.04	6149.79	3079.47	3.96	-0.668	0.000	0.183
70.00	-25.12	-7.96	0.00	-500.76	0.00	500.76	3513.96	1756.98	5895.14	2951.95	4.70	-0.735	0.000	0.177
75.00	-24.11	-7.84	0.00	-460.98	0.00	460.98	3450.63	1725.31	5643.71	2826.05	5.50	-0.802	0.000	0.170
79.00	-23.32	-7.74	0.00	-429.62	0.00	429.62	3399.08	1699.54	5445.00	2726.55	6.20	-0.855	0.000	0.164
80.00	-22.98	-7.72	0.00	-421.88	0.00	421.88	3386.07	1693.03	5395.67	2701.84	6.38	-0.869	0.000	0.163
84.00	-21.68	-7.61	0.00	-390.99	0.00	390.99	2492.17	1246.08	3964.65	1985.27	7.13	-0.921	0.000	0.206
85.00	-21.51	-7.60	0.00	-383.37	0.00	383.37	2483.20	1241.60	3929.49	1967.67	7.32	-0.934	0.000	0.204
90.00	-20.67	-7.49	0.00	-345.37	0.00	345.37	2437.73	1218.86	3754.97	1880.28	8.34	-1.007	0.000	0.192
95.00	-19.86	-7.37	0.00	-307.93	0.00	307.93	2391.17	1195.58	3582.65	1793.99	9.43	-1.077	0.000	0.180
100.00	-19.06	-7.26	0.00	-271.06	0.00	271.06	2343.52	1171.76	3412.67	1708.87	10.60	-1.145	0.000	0.167
105.00	-18.28	-7.14	0.00	-234.77	0.00	234.77	2294.79	1147.40	3245.17	1624.99	11.83	-1.209	0.000	0.152
110.00	-17.51	-7.03	0.00	-199.06	0.00	199.06	2244.98	1122.49	3080.27	1542.43	13.13	-1.269	0.000	0.137
115.00	-16.77	-6.91	0.00	-163.92	0.00	163.92	2194.08	1097.04	2918.13	1461.23	14.49	-1.324	0.000	0.120
118.00	-14.01	-5.96	0.00	-143.20	0.00	143.20	2163.02	1081.51	2822.22	1413.21	15.33	-1.355	0.000	0.108
120.00	-13.74	-5.91	0.00	-131.29	0.00	131.29	2136.45	1068.22	2751.59	1377.84	15.91	-1.374	0.000	0.102
123.00	-13.34	-5.84	0.00	-113.55	0.00	113.55	2094.98	1047.49	2645.31	1324.62	16.78	-1.401	0.000	0.092
123.00	-13.34	-5.84	0.00	-113.55	0.00	113.55	1330.70	665.35	1690.49	846.50	16.78	-1.401	0.000	0.144
125.00	-13.14	-5.80	0.00	-101.87	0.00	101.87	1319.70	659.85	1654.32	828.39	17.37	-1.418	0.000	0.133
128.00	-10.50	-4.43	0.00	-84.48	0.00	84.48	1302.88	651.44	1600.34	801.36	18.27	-1.450	0.000	0.114
130.00	-10.32	-4.39	0.00	-75.62	0.00	75.62	1291.45	645.73	1564.57	783.45	18.88	-1.469	0.000	0.105
135.00	-9.88	-4.28	0.00	-53.67	0.00	53.67	1262.12	631.06	1475.93	739.06	20.44	-1.510	0.000	0.080
138.00	-6.01	-2.53	0.00	-40.83	0.00	40.83	1244.00	622.00	1423.34	712.73	21.40	-1.530	0.000	0.062
140.00	-5.86	-2.49	0.00	-35.77	0.00	35.77	1231.70	615.85	1388.54	695.30	22.04	-1.542	0.000	0.056
145.00	-5.49	-2.38	0.00	-23.32	0.00	23.32	1200.20	600.10	1302.53	652.23	23.67	-1.565	0.000	0.040
149.00	-3.86	-1.53	0.00	-13.79	0.00	13.79	1174.22	587.11	1234.81	618.32	24.99	-1.578	0.000	0.026
150.00	-3.80	-1.51	0.00	-12.26	0.00	12.26	1167.61	583.81	1218.04	609.93	25.32	-1.581	0.000	0.023
155.00	-3.49	-1.41	0.00	-4.71	0.00	4.71	1133.94	566.97	1135.21	568.45	26.98	-1.589	0.000	0.011
158.00	0.00	-1.31	0.00	-0.48	0.00	0.48	1113.22	556.61	1086.36	543.99	27.98	-1.591	0.000	0.001

Final Analysis Summary

Structure: CT46131-A-SBA	Code: EIA/TIA-222-G	12/2/2020	
Site Name: Easton-Everetts Rd	Exposure: C		
Height: 158.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	

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Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 93 mph Wind	36.2	0.00	58.16	0.00	0.00	4308.93
0.9D + 1.6W 93 mph Wind	36.2	0.00	43.61	0.00	0.00	4261.74
1.2D + 1.0Di + 1.0Wi 50 mph Wind	11.0	0.00	90.61	0.00	0.00	1312.57
1.2D + 1.0E	2.5	0.00	58.21	0.00	0.00	320.38
0.9D + 1.0E	2.5	0.00	43.66	0.00	0.00	316.52
1.0D + 1.0W 60 mph Wind	9.4	0.00	48.51	0.00	0.00	1114.39

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 93 mph Wind	-38.92	-33.28	0.00	-2942.3	0.00	-2942.3	3838.31	1919.1	7321.27	3666.08	39.00	0.813
0.9D + 1.6W 93 mph Wind	-29.02	-33.06	0.00	-2900.0	0.00	-2900.0	3838.31	1919.1	7321.27	3666.08	39.00	0.799
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-67.03	-10.10	0.00	-897.25	0.00	-897.25	3838.31	1919.1	7321.27	3666.08	39.00	0.262
1.2D + 1.0E	-26.15	-1.98	0.00	-133.37	0.00	-133.37	2492.17	1246.0	3964.65	1985.27	84.00	0.078
0.9D + 1.0E	-19.61	-1.95	0.00	-131.11	0.00	-131.11	2492.17	1246.0	3964.65	1985.27	84.00	0.074
1.0D + 1.0W 60 mph Wind	-32.98	-8.62	0.00	-759.72	0.00	-759.72	3838.31	1919.1	7321.27	3666.08	39.00	0.216

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination				Upper Termination				Max Member			
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Req'd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Req'd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio
0.0	36.0	(4) PLT-7.625x1.5(31mm Hsk	317.4	4.76	37.1	390.9	37.1	11	15	345.4	37.1	10	12	390.85	503.5	468.37	0.835

Base Plate Summary

Structure: CT46131-A-SB	Code: EIA/TIA-222-G	12/2/2020
Site Name: Easton-Everetts Rd	Exposure: C	
Height: 158.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 38



Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 50.00	Bolt Circle: 62.00
Moment (kip-ft): 2888.00	Width (in): 60.00	Number Bolts: 16.00
Axial (kip): 26.60	Style: Clipped	Bolt Type: 2.25" 18J
Shear (kip): 30.40	Polygon Sides: 4.00	Bolt Diameter (in): 2.25
Analysis (1.2D + 1.6W)	Clip Length (in): 10.00	Yield (ksi): 75.00
Moment (kip-ft): 4308.93	Effective Len (in): 8.42	Ultimate (ksi): 100.00
Axial (kip): 58.16	Moment (kip-in): 622.78	Arrangement: Clustered
Shear (kip): 36.24	Allow Stress (ksi): 67.50	Cluster Dist (in): 6.00
	Applied Stress (ksi): 41.85	Start Angle (deg): 45.00
	Stress Ratio: 0.62	Compression
		Force (kip): 172.13
		Allowable (kip): 260.00
		Ratio: 0.68
		Tension
		Force (kip): 160.81
		Allowable (kip): 260.00
		Ratio: 0.64



Pier Foundation Design For Monopole			Date
			12/2/2020
Customer Name:	T-Mobile	EIA/TIA Standard:	EIA-222-G
Site Name:		Structure Height (Ft.):	158
Site Number:	CT46131-A-SBA	Engineer Name:	M. Baker
Engr. Number:	99011	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations

Acceptable overstress ($\leq 5.0\%$)

Structure Type:

Monopole

Analysis or Design?

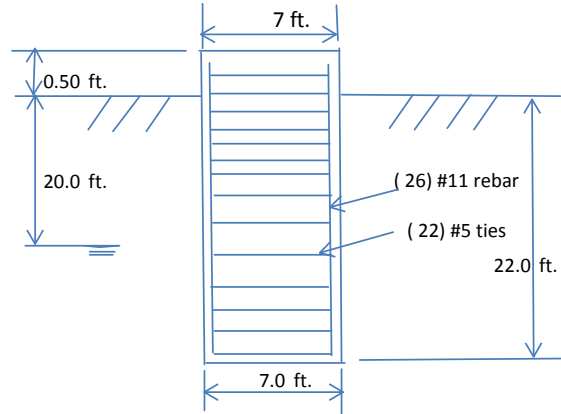
Analysis

Base Reactions (Factored):

Axial Load (Kips):	58.2	Shear Force (Kips):	36.2
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4308.9

Foundation Geometries:

Diameter of Pier (ft.):	7.0	Depth of Base B. G. S. :	22.0 ft.
Pier Height A. G. (ft.):	0.50		



Monopole Pier Foundation

Material Properties and Rebar Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield strength:	60	ksi
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	26	Tie Spacing:	18.0	in.
Concrete Cover (in.):	3	Concrete unit weight:	150.0	pcf

Soil Design Parameters:

Water Table B.G.S. (ft):	20.0	Unit weight of water:	62.4	psf
Ratio of Uplift/Axial Skin Friction:	1.0	Pullout failure Angle:	30	(°)

Skin Frictions are to be obtained from:

Soil Report

5000

Depth of Layers (ft)		γ_{soil}	ϕ	Cohesion	Ultimate Skin Friction (psf)	Ultimate Bearing (psf)	Soil Types						
Top	Bottom	(pcf)	(°)	(psf)									
0.0	4.0	115	0	0									
4.0	20.0	125	38	0									
20.0	25.0	125	38	0									
25.0	30.0												

Soil weight Increase Factor for bouyant soils (1.0 to 1.15):

1.1

Foundation Analysis and Design:

Uplift Strength Reduction Factor:		0.75	Soil Bearing Strength Reduction Factor:		0.75
Total Dry Soil Volume from Conical Failure (cu. Ft.):	6742		Dry Soil Weight from Conical Failure:	829	Kips
Total Buoyant Soil Volume from Conical Failure (cu. Ft.):	28		Buoyant Soil Weight from Conical Failure (Kips)	0	Kips
Total Dry Concrete Volume (cu. Ft.):	789		Total Dry Concrete Weight:	118.3	Kips
Total Buoyant Concrete Volume (cu. Ft.):	77.0		Total Buoyant Concrete Weight:	6.74	Kips
Total Effective Concrete Weight (Kips):	125.1		Total Effective Soil Weight:	829.5	Kips
Total Effective Vertical Load on Base (Kips):	87.9				

Check Soil Capacities:

Allowable Foundation Overturning Resistance (kips-ft.):	6329.1	>	Design Factored Moment (kips-ft):	4869	Usage	0.77	OK!
Factor of Safety of Passive Soil Resistance against Moment:	1.30	OK!					

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75				
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00				
Reinforcing Concrete Pier:					Usage		
Vertical Steel Rebar Area (sq. in./each):	1.56	Tie / Stirrup Area (sq. in./each):	0.31				
Calculated Moment Capacity (Mn,Kips-Ft):	6590.1	>	Design Factored Moment (Mu, K-Ft):	4491.4	0.68	OK!	
Calculated Shear Capacity (Kips):	970.0	>	Design Factored Shear (Kips):	488.6	0.50	OK!	
Calculated Tension Capacity (Tn, Kips):	2190.2	>	Design Factored Tension (Tu Kips):	0.0	0.00	OK!	
Calculated Compression Capacity (Pn, Kips):	7295	>	Design Factored Axial Load (Pu Kips):	58.2	0.01	OK!	
Moment & Axial Strength Combination:	0.68	OK!	Max. Allowable Tie/Stirrup Spacing:	8.86	in.		
Pier Reinforcement Ratio:	0.007	Reinforcement Ratio is satisfied per ACI					

EXHIBIT 8



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Antenna Mount Analysis Report

Existing 158-Ft Monopole Tower
Customer Name: SBA Communications Corp
Customer Site Number: CT46131-A-S
Customer Site Name: Easton-Everetts Rd
Carrier Name: T-Mobile (App#: 141465, V1)
Carrier Site ID / Name: CT11949A / Easton
Site Location: 206 Everett Road
Easton, Connecticut
Fairfield County
Latitude: 41.290333
Longitude: -73.282666

Analysis Result:

Max Structural Usage: 60.9% [Pass]

Report Prepared By: Manoj Kandel



Introduction

The purpose of this report is to summarize the analysis results on the (1) Platform w/ Hand Rail at 138.00' elevation to support the proposed antenna configuration. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Mount Drawings	Mount Mapping by TEP, dated 11/03/2020
Antenna Loading	SBA, Application #: 141465, v1, dated 11/3/2020
Modification Drawings	N/A

Analysis Criteria

Basic Wind Speed Used in the Analysis: $V_{ULT} = 120$ mph (3-Sec. Gust) / Equivalent to
 $V_{ASD} = 93$ mph (3-Sec. Gust)

Basic Wind Speed with Ice: 50 mph (3-Sec. Gust) with 0.75" radial ice concurrent

Operational Wind Speed: 60 mph +0" Radial ice

Standard/Codes: ANSI/TIA/EIA 222-G/ 2015 IBC / 2018 Connecticut State Building Code

Exposure Category: C

Structure Class: II

Topographic Category: 1

Crest Height (Ft): 0

The site is a Risk Category II structure per IBC Table 1604.5. This site does not support emergency communication equipment for first responders such as fire departments, police, hospitals, ambulance services or any of the facilities listed for Risk Categories III and IV. The scope of work detailed in this structural analysis does not include items that are a part of emergency service as the 911 or essential facility service of an emergency response system.

Mount Information

(1) Platform w/ Hand Rail at 138.00' elevation

Final Antenna Configuration

- 3 RFS APX16DWV-16DWVS-E-A20
- 3 RFS APXVAALL24-43-U-NA20
- 3 Ericsson AIR6449 B41
- 3 Ericsson KRY 112 144/1
- 3 Ericsson 4449 B71 + B85
- 3 Ericsson 4424 B25
- 3 Ericsson 4415 B66A
- 3 Kathrein 782 11056

In addition to the proposed equipment loading, a 500 lb serviceability load was also considered in this analysis in accordance with TIA requirements.

Analysis Results

Our calculations have determined that under design wind load the existing mounts will be structurally adequate to support the proposed antenna configuration. The maximum structural usage is 60.9%, which occurs in the plate member. The proposed equipment must be installed as stipulated in the Final Antenna Configuration section of this report. The analysis results are void if the proposed equipment is not installed in accordance with this report.

Attachments

1. Mount Photos
2. Antenna Placement Diagram
3. Mount Mapping Information
4. Analysis Calculations

Standard Conditions

1. The loading configuration as analyzed in this report is as provided from the customer. Any deviation from this design shall be communicated to TES to verify deviation will not adversely impact the analysis.
2. The analysis is based on the presumption that the antenna mount members and components along with any existing reinforcement items have been correctly and properly designed, manufactured, installed and maintained.
3. All the existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion. The mount analysis is not a condition assessment of the mount.
4. The mount analysis was performed in accordance with the loading provided, and if applicable the modification required to support the additional loading.
5. If the mount is modified, installation must adhere to the configuration communicated in the modification drawings.
6. The modification drawings are not intended to convey means or methods. These are the responsibility of the installing contractor.
7. Rigging plan review is available if the contractor requires for a construction class IV or other if required. Review fee would apply.
8. The mount modification package was created based upon information provided for the mount loading. The underlying tower is assumed to provide support and sufficient rigidity to support the mount loads as a tower analysis was not part of the mount analysis.
9. TES is not responsible for modifications to climbing facilities unless communicated to TES in writing.





ES

Tower Engineering Solutions

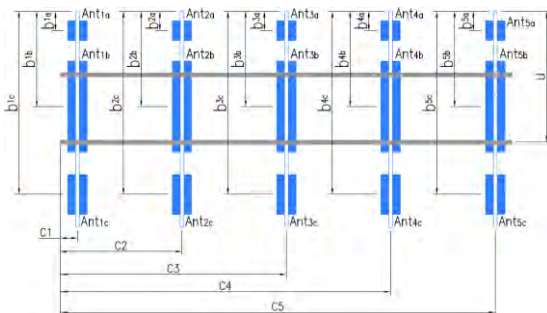
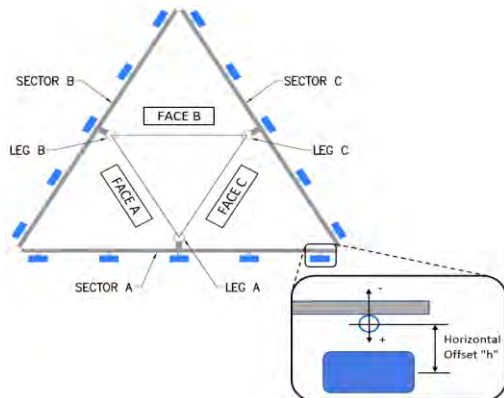
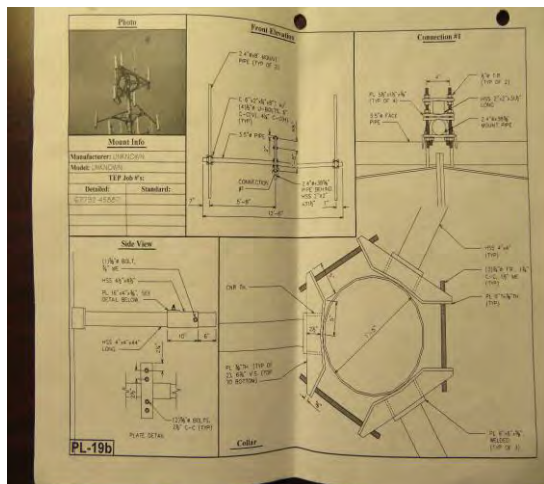
Antenna Mount Mapping Form (PATENT PENDING)

FCC #

N/A

Tower Owner:	Unknown	Mapping Date:	11/3/2020
Site Name:	Easton-Everetts Rd	Tower Type:	Monopole
Site Number or ID:	99012	Tower Height (Ft.):	
Mapping Contractor:	TEP	Mount Elevation (Ft.):	140

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



Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]

Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4"Øx0.154"x72"	52.50	31.75	C1	2.4"Øx0.154"x72"	54.50	31.75
A2	2.4"Øx0.154"x108"	59.00	77.00	C2	2.4"Øx0.154"x108"	59.50	77.25
A3	2.4"Øx0.154"x72"	54.50	118.75	C3	2.4"Øx0.154"x72"	54.50	119.50
A4				C4			
A5				C5			
A6				C6			
B1	2.4"Øx0.154"x72"	53.50	31.00	D1			
B2	2.4"Øx0.154"x108"	58.25	74.50	D2			
B3	2.4"Øx0.154"x72"	53.50	118.75	D3			
B4				D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :

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

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

Please enter additional information or comments below.

Tower Face Width at Mount Elev. (ft.):

Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):

[illegible]

1		
2		
3		
4		
5		
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.

Structure: CT46131-A-SBA - Easton-Everetts Rd

Sector: **A**

11/30/2020



Structure Type: Monopole

Mount Elev: 138.00

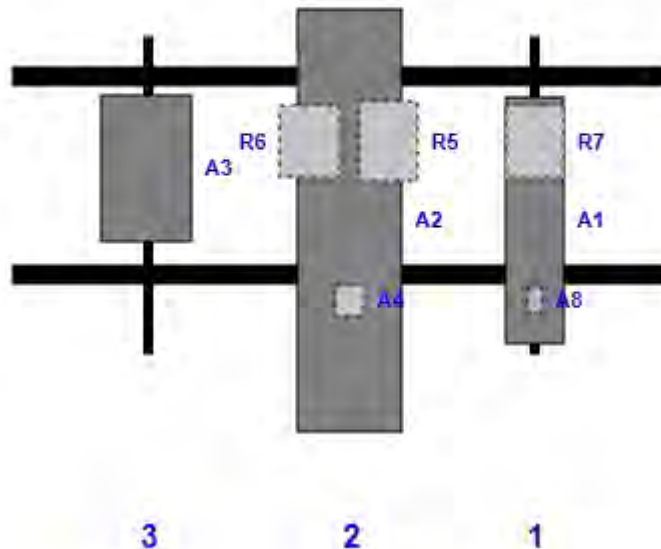
Page: 1

Plan View



Front View

Looking Toward Structure



Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A1	APX16DWV-16DWVS-E-A20	55.90	13.00	119.00	1	a	Front	42.00			
R7	4415 B66A	16.50	13.40	119.00	1	a	Behind	24.00			
A8	782 11056	5.50	3.20	119.00	1	a	Behind	60.00			
A2	APXVAALL24-43-U-NA20	95.90	24.00	77.00	2	a	Front	42.00			
A4	KRY 112 144/1	6.90	6.10	77.00	2	a	Behind	60.00			
R5	4449 B71 + B85	17.90	13.20	77.00	2	a	Behind	24.00	9.00		
R6	4424 B25	16.50	13.50	77.00	2	a	Behind	24.00	-9.00		
A3	AIR6449 B41	33.10	20.50	31.00	3	a	Front	30.00			

Structure: CT46131-A-SBA - Easton-Everetts Rd

Sector: **B**

11/30/2020

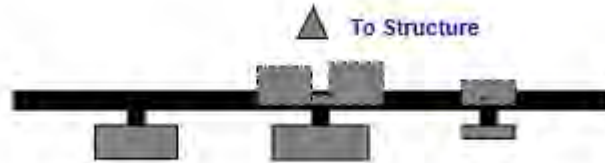
Structure Type: Monopole

Mount Elev: 138.00

Page: 2

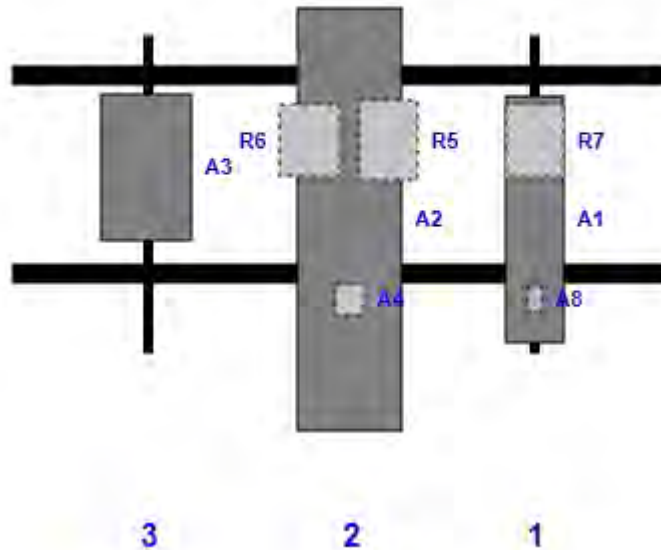


Plan View



Front View

Looking Toward Structure



Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A1	APX16DWV-16DWVS-E-A20	55.90	13.00	119.00	1	a	Front	42.00			
R7	4415 B66A	16.50	13.40	119.00	1	a	Behind	24.00			
A8	782 11056	5.50	3.20	119.00	1	a	Behind	60.00			
A2	APXVAALL24-43-U-NA20	95.90	24.00	77.00	2	a	Front	42.00			
A4	KRY 112 144/1	6.90	6.10	77.00	2	a	Behind	60.00			
R5	4449 B71 + B85	17.90	13.20	77.00	2	a	Behind	24.00	9.00		
R6	4424 B25	16.50	13.50	77.00	2	a	Behind	24.00	-9.00		
A3	AIR6449 B41	33.10	20.50	31.00	3	a	Front	30.00			

Structure: CT46131-A-SBA - Easton-Everetts Rd

Sector: **C**

11/30/2020

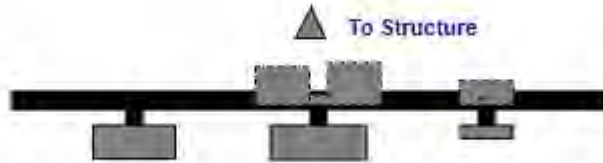
Structure Type: Monopole

Mount Elev: 138.00

Page: 3

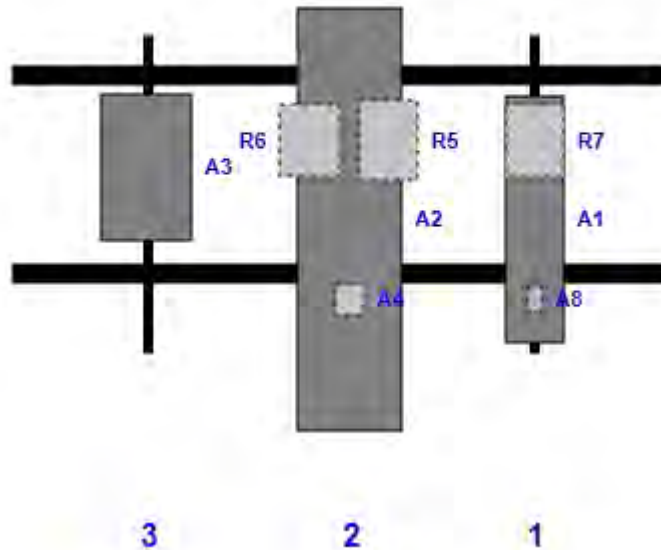


Plan View

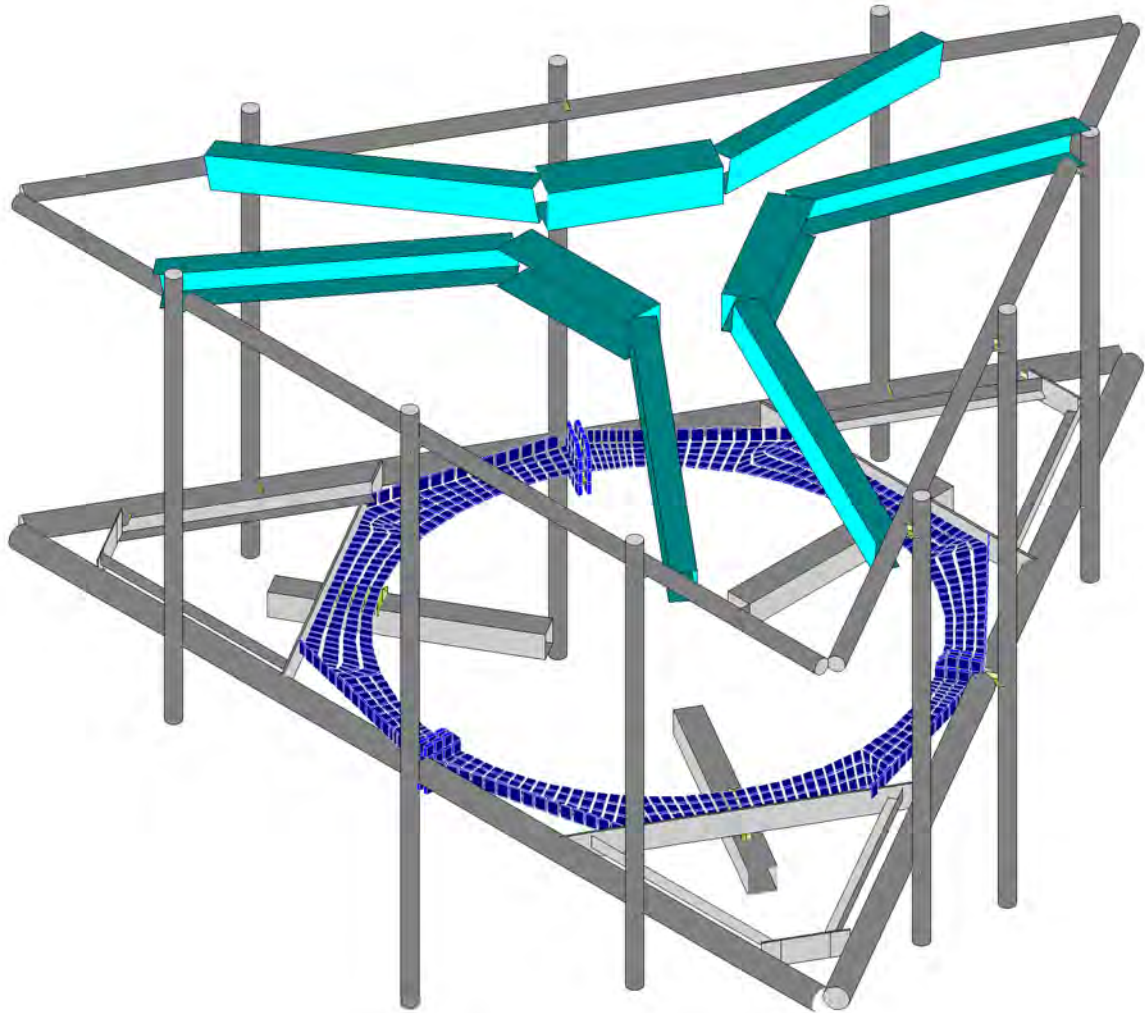
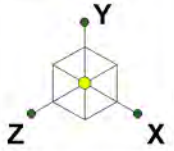


Front View

Looking Toward Structure



Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A1	APX16DWV-16DWVS-E-A20	55.90	13.00	119.00	1	a	Front	42.00			
R7	4415 B66A	16.50	13.40	119.00	1	a	Behind	24.00			
A8	782 11056	5.50	3.20	119.00	1	a	Behind	60.00			
A2	APXVAALL24-43-U-NA20	95.90	24.00	77.00	2	a	Front	42.00			
A4	KRY 112 144/1	6.90	6.10	77.00	2	a	Behind	60.00			
R5	4449 B71 + B85	17.90	13.20	77.00	2	a	Behind	24.00	9.00		
R6	4424 B25	16.50	13.50	77.00	2	a	Behind	24.00	-9.00		
A3	AIR6449 B41	33.10	20.50	31.00	3	a	Front	30.00			



Tower Engineering Solutio...

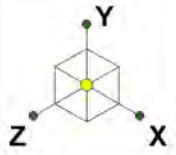
CT46131-A-SBA_MT_LO_Loads Only_G

SK - 1

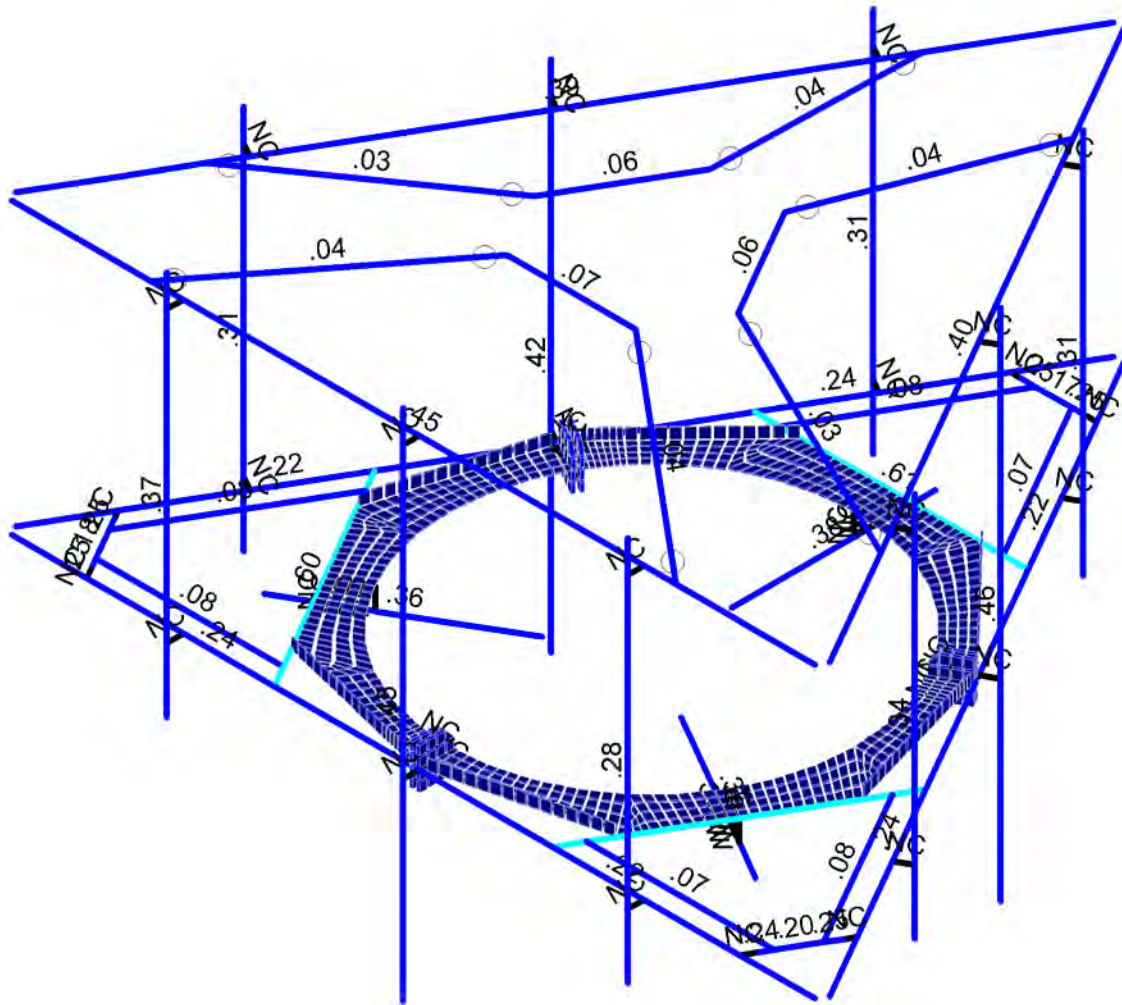
Nov 30, 2020 at 11:24 AM

TES Project No. 99010

CT46131-A-SBA_99010_G_RISA_L...

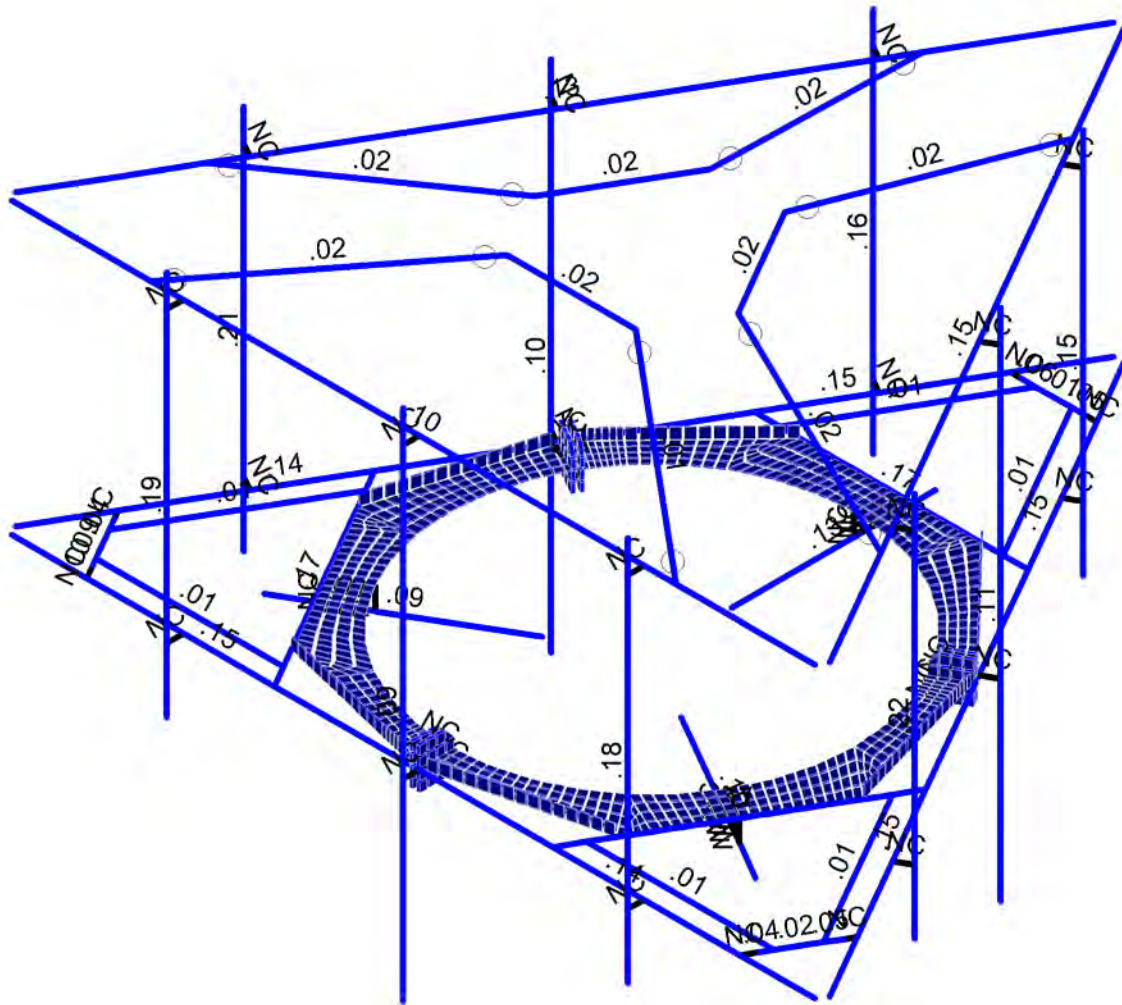
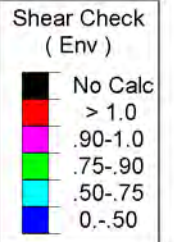
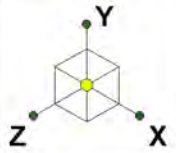


Code Check (Env)	
 	No Calc
 	> 1.0
 	.90-1.0
 	.75-.90
 	.50-.75
 	0-.50



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.6W (Front)

Tower Engineering Solutio...	CT46131-A-SBA_MT_LO_Loads Only_G	SK - 2
		Nov 30, 2020 at 11:25 AM
TES Project No. 99010		CT46131-A-SBA_99010_G_RISA_L...



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.6W (Front)

Tower Engineering Solutio...	CT46131-A-SBA_MT_LO_Loads Only_G	SK - 3
		Nov 30, 2020 at 11:25 AM
TES Project No. 99010		CT46131-A-SBA_99010_G_RISA_L...

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					33		
2	Antenna Di	None					33		
3	Antenna W Front	None					33		
4	Antenna Wi Front	None					33		
5	Antenna W Side	None					33		
6	Antenna Wi Side	None					33		
7	Service Lm1	None					1		
8	Service Lm2	None					1		
9	Structure D	None		-1					3
10	Structure Di	None						48	3
11	Structure W Front	None						48	
12	Structure Wi Front	None						48	
13	Structure W Side	None						48	
14	Structure Wi Side	None						48	
15	BLC 9 Transient Area..	None						36	
16	BLC 10 Transient Are..	None						36	

Load Combinations

	Description	So..P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
1	1.2D+1.6W (Front)	Yes	Y		1	1.2	9	1.2	3	1.6	11	1.6								
2	1.2D+1.6W (Back)	Yes	Y		1	1.2	9	1.2	3	-1.6	11	-1.6								
3	1.2D+1.6W (Left)	Yes	Y		1	1.2	9	1.2	5	1.6	13	1.6								
4	1.2D+1.6W (Right)	Yes	Y		1	1.2	9	1.2	5	-1.6	13	-1.6								
5	1.2D+1.0Di+1.0Wi (Front)	Yes	Y		1	1.2	9	1.2	2	1	10	1	4	1	12	1				
6	1.2D+1.0Di+1.0Wi (Back)	Yes	Y		1	1.2	9	1.2	2	1	10	1	4	-1	12	-1				
7	1.2D+1.0Di+1.0Wi (Left)	Yes	Y		1	1.2	9	1.2	2	1	10	1	6	1	14	1				
8	1.2D+1.0Di+1.0Wi (Right)	Yes	Y		1	1.2	9	1.2	2	1	10	1	6	-1	14	-1				
9	1.2D+1.5L1+.16W (Mai..)	Yes	Y		1	1.2	9	1.2	7	1.5	3	.16	11	.16						
10	1.2D+1.5L2+.16W (Mai..)	Yes	Y		1	1.2	9	1.2	8	1.5	3	.16	11	.16						
11	1.4D	Yes	Y		1	1.4	9	1.4												

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-6.25	0	3.704857	0	
2	N2	6.25	0	3.704857	0	
3	CG	0	0	0	0	
4	N4	-5.083	0	3.704857	0	
5	N5	-2.167	0	3.704857	0	
6	N6	2.167	0	3.704857	0	
7	N7	5.083	0	3.704857	0	
8	N8	6.3335	0	3.56023	0	
9	N9	0.0835	0	-7.265087	0	
10	N11	5.75	0	2.549579	0	
11	N12	4.292	0	0.024249	0	
12	N13	2.125	0	-3.729106	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
13	N14	0.667	0	-6.254436	0	
14	N15	-0.0835	0	-7.265087	0	
15	N16	-6.3335	0	3.56023	0	
16	N18	-0.667	0	-6.254436	0	
17	N19	-2.125	0	-3.729106	0	
18	N20	-4.292	0	0.024249	0	
19	N21	-5.75	0	2.549579	0	
20	N22	-5.275258	0	3.371857	0	
21	N23	-2.359258	0	3.371857	0	
22	N24	5.275258	0	3.371857	0	
23	N25	2.359258	0	3.371857	0	
24	N25A	5.557743	0	2.882579	0	
25	N26	4.099743	0	0.357249	0	
26	N27	0.282485	0	-6.254436	0	
27	N28	1.740485	0	-3.729106	0	
28	N30	-0.282485	0	-6.254436	0	
29	N31	-1.740485	0	-3.729106	0	
30	N32	-5.557743	0	2.882579	0	
31	N33	-4.099743	0	0.357249	0	
32	N34	-0.052083	0	3.704857	0	
33	N80A	-1.082532	-.333	0.625	0	
34	N81A	-3.825234	-.333	2.2085	0	
35	N83	1.082532	-.333	0.625	0	
36	N84	3.825234	-.333	2.2085	0	
37	N86	4.5e-13	-.333	-1.25	0	
38	N87	2.3e-13	-.333	-4.417	0	
39	N89	-2.525758	0	3.083471	0	
40	N93	2.525758	0	3.083471	0	
41	N92A	0	0	-3.729106	0	
42	N93A	0	0	-3.146106	0	
43	N117	-2.724607	0	1.573053	0	
44	N119	-2.410057	0	2.022278	0	
45	N121	-2.022278	0	2.410057	0	
46	N123	-1.573053	0	2.724607	0	
47	N125	-1.076031	0	2.956372	0	
48	N127	-0.546315	0	3.098309	0	
49	N129	-0.052083	0	3.146106	0	
50	N131	0.546315	0	3.098309	0	
51	N133	1.076031	0	2.956372	0	
52	N135	1.573053	0	2.724607	0	
53	N137	2.022278	0	2.410057	0	
54	N139	2.410057	0	2.022278	0	
55	N141	2.724607	0	1.573053	0	
56	N134	-3.2295	0	1.864553	0	
57	N137A	-2.9795	0	2.297565	0	
58	N138	-2.7295	0	2.730578	0	
59	N140	3.2295	0	1.864553	0	
60	N141A	2.9795	0	2.297565	0	
61	N142	2.7295	0	2.730578	0	
62	N143B	-1.894318	0	3.238817	0	
63	N144A	-1.262879	0	3.394164	0	
64	N145A	-0.631439	0	3.54951	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
65	N146	0.631439	0	3.54951	0	
66	N147A	1.262879	0	3.394164	0	
67	N148	1.894318	0	3.238817	0	
68	N163A	-0.273158	0	3.122207	0	
69	N164	-0.317303	0	3.626794	0	
70	N200	0	0	-3.583356	0	
71	N204	0	0	-3.437606	0	
72	N208	0	0	-3.291856	0	
73	N407	2.850831	0	1.645928	0	
74	N411	2.977054	0	1.718803	0	
75	N415	3.103277	0	1.791678	0	
76	N419	2.64597	0	1.685359	0	
77	N420	2.567332	0	1.797665	0	
78	N421	2.488694	0	1.909971	0	
79	N422	2.776227	0	1.757221	0	
80	N423	2.701624	0	1.868514	0	
81	N424	2.627021	0	1.979807	0	
82	N425	2.552418	0	2.0911	0	
83	N426	2.906485	0	1.829082	0	
84	N427	2.835916	0	1.939362	0	
85	N428	2.765347	0	2.049642	0	
86	N429	2.694778	0	2.159922	0	
87	N430	3.036743	0	1.900944	0	
88	N431	2.970208	0	2.010211	0	
89	N432	2.903674	0	2.119477	0	
90	N433	2.837139	0	2.228744	0	
91	N434	3.167	0	1.972806	0	
92	N435	3.1045	0	2.081059	0	
93	N436	3.042	0	2.189312	0	
94	N437	2.313112	0	2.119222	0	
95	N438	2.216167	0	2.216167	0	
96	N439	2.119222	0	2.313112	0	
97	N440	2.464084	0	2.190871	0	
98	N441	2.37575	0	2.290643	0	
99	N442	2.287417	0	2.390415	0	
100	N443	2.199083	0	2.490187	0	
101	N444	2.615056	0	2.262521	0	
102	N445	2.535334	0	2.365119	0	
103	N446	2.455611	0	2.467718	0	
104	N447	2.375889	0	2.570317	0	
105	N448	2.766028	0	2.33417	0	
106	N449	2.694917	0	2.439596	0	
107	N450	2.623806	0	2.545022	0	
108	N451	2.552695	0	2.650448	0	
109	N452	2.917	0	2.405819	0	
110	N453	2.8545	0	2.514072	0	
111	N454	2.792	0	2.622325	0	
112	N455	2.399888	0	2.915117	0	
113	N456	2.274018	0	2.746764	0	
114	N457	2.148148	0	2.57841	0	
115	N458	2.367898	0	3.122307	0	
116	N459	2.253416	0	2.963904	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
117	N460	2.138935	0	2.805501	0	
118	N461	2.024453	0	2.647098	0	
119	N462	1.909971	0	2.488694	0	
120	N463	2.210038	0	3.161144	0	
121	N464	2.106945	0	3.012691	0	
122	N465	2.003852	0	2.864238	0	
123	N466	1.900758	0	2.715785	0	
124	N467	1.797665	0	2.567332	0	
125	N468	2.052178	0	3.199981	0	
126	N469	1.960473	0	3.061478	0	
127	N470	1.868769	0	2.922975	0	
128	N471	1.777064	0	2.784472	0	
129	N472	1.685359	0	2.64597	0	
130	N473	1.814002	0	3.110265	0	
131	N474	1.733686	0	2.981712	0	
132	N475	1.653369	0	2.85316	0	
133	N476	1.736458	0	3.277654	0	
134	N477	1.664543	0	3.153877	0	
135	N478	1.592628	0	3.030101	0	
136	N479	1.520713	0	2.906325	0	
137	N480	1.448797	0	2.782549	0	
138	N481	1.578599	0	3.31649	0	
139	N482	1.515084	0	3.19749	0	
140	N483	1.45157	0	3.07849	0	
141	N484	1.388056	0	2.95949	0	
142	N485	1.324542	0	2.84049	0	
143	N486	1.420739	0	3.355327	0	
144	N487	1.365626	0	3.241103	0	
145	N488	1.310513	0	3.126879	0	
146	N489	1.2554	0	3.012655	0	
147	N490	1.200287	0	2.898431	0	
148	N491	1.216167	0	3.284716	0	
149	N492	1.169455	0	3.175268	0	
150	N493	1.122743	0	3.06582	0	
151	N494	1.105019	0	3.433	0	
152	N495	1.064665	0	3.322714	0	
153	N496	1.024311	0	3.212428	0	
154	N497	0.983957	0	3.102142	0	
155	N498	0.943602	0	2.991856	0	
156	N499	0.947159	0	3.471837	0	
157	N500	0.913163	0	3.360713	0	
158	N501	0.879166	0	3.249589	0	
159	N502	0.84517	0	3.138465	0	
160	N503	0.811173	0	3.027341	0	
161	N504	0.789299	0	3.510674	0	
162	N505	0.761661	0	3.398712	0	
163	N506	0.734022	0	3.286749	0	
164	N507	0.706383	0	3.174787	0	
165	N508	0.678744	0	3.062825	0	
166	N509	0.610158	0	3.43671	0	
167	N510	0.588877	0	3.32391	0	
168	N511	0.567596	0	3.211109	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
169	N512	0.409737	0	3.110258	0	
170	N513	0.273158	0	3.122207	0	
171	N514	0.136579	0	3.134156	0	
172	N515	0.425697	0	3.22978	0	
173	N516	0.283798	0	3.248451	0	
174	N517	0.141899	0	3.267122	0	
175	N518	-0.052083	0	3.285793	0	
176	N519	0.441658	0	3.349303	0	
177	N520	0.294439	0	3.374696	0	
178	N521	0.147219	0	3.400088	0	
179	N522	-0.052083	0	3.425481	0	
180	N523	0.457619	0	3.468825	0	
181	N524	0.305079	0	3.50094	0	
182	N525	0.15254	0	3.533054	0	
183	N526	-0.052083	0	3.565169	0	
184	N527	0.47358	0	3.588347	0	
185	N528	0.31572	0	3.627184	0	
186	N529	0.15786	0	3.66602	0	
187	N530	-0.678744	0	3.062825	0	
188	N531	-0.811173	0	3.027341	0	
189	N532	-0.943602	0	2.991856	0	
190	N533	-0.567596	0	3.211109	0	
191	N534	-0.706383	0	3.174787	0	
192	N535	-0.84517	0	3.138465	0	
193	N536	-0.983957	0	3.102142	0	
194	N537	-1.122743	0	3.06582	0	
195	N538	-0.588877	0	3.32391	0	
196	N539	-0.734022	0	3.286749	0	
197	N540	-0.879166	0	3.249589	0	
198	N541	-1.024311	0	3.212428	0	
199	N542	-1.169455	0	3.175268	0	
200	N543	-0.610158	0	3.43671	0	
201	N544	-0.761661	0	3.398712	0	
202	N545	-0.913163	0	3.360713	0	
203	N546	-1.064665	0	3.322714	0	
204	N547	-1.216167	0	3.284716	0	
205	N548	-0.789299	0	3.510674	0	
206	N549	-0.947159	0	3.471837	0	
207	N550	-1.105019	0	3.433	0	
208	N551	-1.448797	0	2.782549	0	
209	N552	-1.324542	0	2.84049	0	
210	N553	-1.200287	0	2.898431	0	
211	N554	-1.653369	0	2.85316	0	
212	N555	-1.520713	0	2.906325	0	
213	N556	-1.388056	0	2.95949	0	
214	N557	-1.2554	0	3.012655	0	
215	N558	-1.733686	0	2.981712	0	
216	N559	-1.592628	0	3.030101	0	
217	N560	-1.45157	0	3.07849	0	
218	N561	-1.310513	0	3.126879	0	
219	N562	-1.814002	0	3.110265	0	
220	N563	-1.664543	0	3.153877	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
221	N564	-1.515084	0	3.19749	0	
222	N565	-1.365626	0	3.241103	0	
223	N566	-1.736458	0	3.277654	0	
224	N567	-1.578599	0	3.31649	0	
225	N568	-1.420739	0	3.355327	0	
226	N569	-1.685359	0	2.64597	0	
227	N570	-1.797665	0	2.567332	0	
228	N571	-1.909971	0	2.488694	0	
229	N572	-1.811229	0	2.814323	0	
230	N573	-1.908193	0	2.733289	0	
231	N574	-2.005156	0	2.652255	0	
232	N575	-2.10212	0	2.571221	0	
233	N576	-2.199083	0	2.490187	0	
234	N577	-2.049405	0	2.904039	0	
235	N578	-2.131026	0	2.820609	0	
236	N579	-2.212647	0	2.737178	0	
237	N580	-2.294268	0	2.653748	0	
238	N581	-2.375889	0	2.570317	0	
239	N582	-2.287581	0	2.993755	0	
240	N583	-2.35386	0	2.907928	0	
241	N584	-2.420138	0	2.822101	0	
242	N585	-2.486416	0	2.736275	0	
243	N586	-2.552695	0	2.650448	0	
244	N587	-2.576693	0	2.995247	0	
245	N588	-2.627629	0	2.907024	0	
246	N589	-2.678565	0	2.818801	0	
247	N590	-2.119222	0	2.313112	0	
248	N591	-2.216167	0	2.216167	0	
249	N592	-2.313112	0	2.119222	0	
250	N593	-2.287417	0	2.390415	0	
251	N594	-2.37575	0	2.290643	0	
252	N595	-2.464084	0	2.190871	0	
253	N596	-2.552418	0	2.0911	0	
254	N597	-2.455611	0	2.467718	0	
255	N598	-2.535334	0	2.365119	0	
256	N599	-2.615056	0	2.262521	0	
257	N600	-2.694778	0	2.159922	0	
258	N601	-2.623806	0	2.545022	0	
259	N602	-2.694917	0	2.439596	0	
260	N603	-2.766028	0	2.33417	0	
261	N604	-2.837139	0	2.228744	0	
262	N605	-2.792	0	2.622325	0	
263	N606	-2.8545	0	2.514072	0	
264	N607	-2.917	0	2.405819	0	
265	N608	-2.488694	0	1.909971	0	
266	N609	-2.567332	0	1.797665	0	
267	N610	-2.64597	0	1.685359	0	
268	N611	-2.627021	0	1.979807	0	
269	N612	-2.701624	0	1.868514	0	
270	N613	-2.776227	0	1.757221	0	
271	N614	-2.850831	0	1.645928	0	
272	N615	-2.765347	0	2.049642	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
273	N616	-2.835916	0	1.939362	0	
274	N617	-2.906485	0	1.829082	0	
275	N618	-2.977054	0	1.718803	0	
276	N619	-2.903674	0	2.119477	0	
277	N620	-2.970208	0	2.010211	0	
278	N621	-3.036743	0	1.900944	0	
279	N622	-3.103277	0	1.791678	0	
280	N623	-3.042	0	2.189312	0	
281	N624	-3.1045	0	2.081059	0	
282	N625	-3.167	0	1.972806	0	
283	N794	-0.478026	0	3.104284	0	
284	N795	-0.409737	0	3.110258	0	
285	N796	-0.341447	0	3.116233	0	
286	N797	-0.496746	0	3.220421	0	
287	N798	-0.425895	0	3.229732	0	
288	N799	-0.355045	0	3.239043	0	
289	N800	-0.284194	0	3.248354	0	
290	N801	-0.515466	0	3.336557	0	
291	N802	-0.442054	0	3.349205	0	
292	N803	-0.368642	0	3.361853	0	
293	N804	-0.295231	0	3.374501	0	
294	N805	-0.534186	0	3.452694	0	
295	N806	-0.458213	0	3.468679	0	
296	N807	-0.38224	0	3.484663	0	
297	N808	-0.306267	0	3.500647	0	
298	N809	-0.552905	0	3.568831	0	
299	N810	-0.474371	0	3.588152	0	
300	N811	-0.395837	0	3.607473	0	
301	N812	-0.204868	0	3.128182	0	
302	N813	-0.136579	0	3.134156	0	
303	N815	-0.213146	0	3.257714	0	
304	N816	-0.142097	0	3.267074	0	
305	N818	-0.221423	0	3.387246	0	
306	N819	-0.147615	0	3.399991	0	
307	N821	-0.2297	0	3.516778	0	
308	N822	-0.153133	0	3.532908	0	
309	N824	-0.237978	0	3.64631	0	
310	N825	-0.158652	0	3.665826	0	
311	N899	2.627629	0	2.907024	0	
312	N900	2.425845	0	2.741368	0	
313	N901	-2.210038	0	3.161144	0	
314	N902	-1.99771	0	3.015632	0	
315	N867A	0.083667	0	3.704857	0	
316	N869A	3.584	4.99993	3.954857	0	
317	N870A	0.083667	4.99993	3.954857	0	
318	N871A	-3.584	4.99993	3.954857	0	
319	N872A	3.584	-1.00007	3.954857	0	
320	N873A	0.083667	-3.00007	3.954857	0	
321	N874A	-3.584	-1.00007	3.954857	0	
322	N900A	-2.714239	-.333	1.567067	0	
323	N901A	-3.340334	-.333	1.928543	0	
324	N898A	2.714239	-.333	1.567067	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
325	N899A	3.340334	-.333	1.928543	0	
326	N903A	-5.6e-13	-.333	-3.134134	0	
327	N904A	0	-.333	-3.857085	0	
328	N902A	0	-.333	-3.729106	0	
329	N903B	0	-.333	-3.146106	0	
330	N904B	0	-.333	-3.583356	0	
331	N905	0	-.333	-3.437606	0	
332	N906	0	-.333	-3.291856	0	
333	N912	-3.2295	-.333	1.864553	0	
334	N913	-2.724607	-.333	1.573053	0	
335	N914	-3.103277	-.333	1.791678	0	
336	N915	-2.977054	-.333	1.718803	0	
337	N916	-2.850831	-.333	1.645928	0	
338	N922	3.2295	-.333	1.864553	0	
339	N923	2.724607	-.333	1.573053	0	
340	N924	3.103277	-.333	1.791678	0	
341	N925	2.977054	-.333	1.718803	0	
342	N926	2.850831	-.333	1.645928	0	
343	N911	-2.023557	0	2.959835	0	
344	N912A	-2.195728	0	3.041071	0	
345	N913A	-2.367898	0	3.122307	0	
346	N914A	-2.103874	0	3.088388	0	
347	N915A	-1.838463	0	2.906498	0	
348	N916A	-1.865698	0	2.998672	0	
349	N917	-1.958938	0	3.099326	0	
350	N918	-2.052178	0	3.199981	0	
351	N919	2.576693	0	2.995247	0	
352	N920	2.463312	0	2.869657	0	
353	N921	2.526737	0	2.824196	0	
354	N922A	2.349931	0	2.744066	0	
355	N923A	2.678565	0	2.818801	0	
356	N924A	2.539716	0	2.737322	0	
357	N925A	2.400867	0	2.655843	0	
358	N926A	2.274507	0	2.617127	0	
359	N952A	0.052084	0	3.704857	0	
360	N953A	0.052084	0	3.146106	0	
361	N954A	0.052084	0	3.285793	0	
362	N955A	0.052084	0	3.425481	0	
363	N956A	0.052084	0	3.565169	0	
364	N952B	-0.052083	0.333333	3.704857	0	
365	N955B	-0.052083	0.333333	3.285793	0	
366	N956B	-0.052083	0.333333	3.425481	0	
367	N957A	-0.052083	0.333333	3.565169	0	
368	N958	0.052084	0.333333	3.704857	0	
369	N960	0.052084	0.333333	3.285793	0	
370	N961	0.052084	0.333333	3.425481	0	
371	N962	0.052084	0.333333	3.565169	0	
372	N963	-0.052083	-0.333333	3.704857	0	
373	N964	-0.052083	-0.333333	3.146106	0	
374	N966	-0.052083	-0.333333	3.285793	0	
375	N967	-0.052083	-0.333333	3.425481	0	
376	N968	-0.052083	-0.333333	3.565169	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
377	N969	0.052084	-0.333333	3.704857	0	
378	N970	0.052084	-0.333333	3.146106	0	
379	N971	0.052084	-0.333333	3.285793	0	
380	N972	0.052084	-0.333333	3.425481	0	
381	N973	0.052084	-0.333333	3.565169	0	
382	N976	-0.052083	-0.166666	3.704857	0	
383	N977	-0.052083	-0.166666	3.146106	0	
384	N979	-0.052083	-0.166666	3.285793	0	
385	N980	-0.052083	-0.166666	3.425481	0	
386	N981	-0.052083	-0.166666	3.565169	0	
387	N982	0.052084	-0.166666	3.704857	0	
388	N983	0.052084	-0.166666	3.146106	0	
389	N984	0.052084	-0.166666	3.285793	0	
390	N985	0.052084	-0.166666	3.425481	0	
391	N986	0.052084	-0.166666	3.565169	0	
392	N992	-0.052083	0.166667	3.704857	0	
393	N993	-0.052083	0.166667	3.146106	0	
394	N995	-0.052083	0.166667	3.285793	0	
395	N996	-0.052083	0.166667	3.425481	0	
396	N997	-0.052083	0.166667	3.565169	0	
397	N998	0.052084	0.166667	3.704857	0	
398	N999	0.052084	0.166667	3.146106	0	
399	N1000	0.052084	0.166667	3.285793	0	
400	N1001	0.052084	0.166667	3.425481	0	
401	N1002	0.052084	0.166667	3.565169	0	
402	N426A	3.234542	0	-1.807323	0	
403	N427A	3.933243	0	0.645635	0	
404	N428A	1.407485	0	-3.729106	0	
405	N430A	2.956372	0	1.076031	0	
406	N431A	3.098309	0	0.546315	0	
407	N432A	3.146106	0	-4e-13	0	
408	N433A	3.098309	0	-0.546315	0	
409	N434A	2.956372	0	-1.076031	0	
410	N435A	2.750649	0	-1.527948	0	
411	N436A	2.410057	0	-2.022278	0	
412	N437A	2.022278	0	-2.410057	0	
413	N438A	1.573053	0	-2.724607	0	
414	N439A	1.076031	0	-2.956372	0	
415	N440A	0.546315	0	-3.098309	0	
416	N443A	3.4795	0	1.43154	0	
417	N444A	3.7295	0	0.998527	0	
418	N446A	0.5	0	-3.729106	0	
419	N447A	1	0	-3.729106	0	
420	N448A	3.752057	0	0.021119	0	
421	N449A	3.570871	0	-0.603397	0	
422	N450A	3.389686	0	-1.227913	0	
423	N451A	2.758246	0	-2.321598	0	
424	N452A	2.307993	0	-2.790767	0	
425	N453A	1.857739	0	-3.259936	0	
426	N454A	2.84049	0	-1.324542	0	
427	N455A	3.299547	0	-1.538604	0	
428	N459A	0.136579	0	-3.134156	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
429	N460A	0.273158	0	-3.122207	0	
430	N461A	0.409737	0	-3.110258	0	
431	N462A	0.133684	0	-3.282894	0	
432	N463A	0.267368	0	-3.273932	0	
433	N464A	0.401052	0	-3.26497	0	
434	N465A	0.534737	0	-3.256008	0	
435	N466A	0.130789	0	-3.431631	0	
436	N467A	0.261579	0	-3.425656	0	
437	N468A	0.392368	0	-3.419682	0	
438	N469A	0.523158	0	-3.413707	0	
439	N470A	0.127895	0	-3.580368	0	
440	N471A	0.255789	0	-3.577381	0	
441	N472A	0.383684	0	-3.574394	0	
442	N473A	0.511579	0	-3.571406	0	
443	N474A	0.125	0	-3.729106	0	
444	N475A	0.25	0	-3.729106	0	
445	N476A	0.375	0	-3.729106	0	
446	N477A	0.678744	0	-3.062825	0	
447	N478A	0.811173	0	-3.027341	0	
448	N479A	0.943602	0	-2.991856	0	
449	N480A	0.665308	0	-3.229395	0	
450	N481A	0.79588	0	-3.202782	0	
451	N482A	0.926452	0	-3.176169	0	
452	N483A	1.057024	0	-3.149556	0	
453	N484A	0.651872	0	-3.395965	0	
454	N485A	0.780587	0	-3.378223	0	
455	N486A	0.909301	0	-3.360481	0	
456	N487A	1.038016	0	-3.342739	0	
457	N488A	0.638436	0	-3.562535	0	
458	N489A	0.765293	0	-3.553664	0	
459	N490A	0.892151	0	-3.544793	0	
460	N491A	1.019008	0	-3.535922	0	
461	N492A	0.625	0	-3.729106	0	
462	N493A	0.75	0	-3.729106	0	
463	N494A	0.875	0	-3.729106	0	
464	N495A	1.324622	0	-3.535922	0	
465	N496A	1.241758	0	-3.342739	0	
466	N497A	1.158895	0	-3.149556	0	
467	N498A	1.520048	0	-3.611813	0	
468	N499A	1.440108	0	-3.433468	0	
469	N500A	1.360168	0	-3.255122	0	
470	N501A	1.280227	0	-3.076777	0	
471	N502A	1.200287	0	-2.898431	0	
472	N503A	1.632612	0	-3.494521	0	
473	N504A	1.555594	0	-3.331013	0	
474	N505A	1.478577	0	-3.167505	0	
475	N506A	1.40156	0	-3.003998	0	
476	N507A	1.324542	0	-2.84049	0	
477	N508A	1.745175	0	-3.377229	0	
478	N509A	1.671081	0	-3.228559	0	
479	N510A	1.596986	0	-3.079889	0	
480	N511A	1.522892	0	-2.931219	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
481	N512A	1.448797	0	-2.782549	0	
482	N513A	1.786567	0	-3.126104	0	
483	N514A	1.715396	0	-2.992272	0	
484	N515A	1.644224	0	-2.85844	0	
485	N516A	1.970302	0	-3.142644	0	
486	N517A	1.899066	0	-3.018475	0	
487	N518A	1.827831	0	-2.894307	0	
488	N519A	1.756595	0	-2.770138	0	
489	N520A	1.685359	0	-2.64597	0	
490	N521A	2.082866	0	-3.025352	0	
491	N522A	2.011566	0	-2.910847	0	
492	N523A	1.940265	0	-2.796342	0	
493	N524A	1.868965	0	-2.681837	0	
494	N525A	1.797665	0	-2.567332	0	
495	N526A	2.195429	0	-2.908059	0	
496	N527A	2.124065	0	-2.803218	0	
497	N528A	2.0527	0	-2.698377	0	
498	N529A	1.981336	0	-2.593536	0	
499	N530A	1.909971	0	-2.488694	0	
500	N531A	2.236564	0	-2.695589	0	
501	N532A	2.165135	0	-2.600412	0	
502	N533A	2.093706	0	-2.505234	0	
503	N534A	2.420556	0	-2.673475	0	
504	N535A	2.345223	0	-2.583384	0	
505	N536A	2.269889	0	-2.493293	0	
506	N537A	2.194556	0	-2.403203	0	
507	N538A	2.119222	0	-2.313112	0	
508	N539A	2.53312	0	-2.556182	0	
509	N540A	2.453881	0	-2.471179	0	
510	N541A	2.374643	0	-2.386175	0	
511	N542A	2.295405	0	-2.301171	0	
512	N543A	2.216167	0	-2.216167	0	
513	N544A	2.645683	0	-2.43889	0	
514	N545A	2.56254	0	-2.358973	0	
515	N546A	2.479397	0	-2.279056	0	
516	N547A	2.396255	0	-2.199139	0	
517	N548A	2.313112	0	-2.119222	0	
518	N549A	2.671199	0	-2.246768	0	
519	N550A	2.584152	0	-2.171938	0	
520	N551A	2.497104	0	-2.097108	0	
521	N552A	2.488694	0	-1.909971	0	
522	N553A	2.567332	0	-1.797665	0	
523	N554A	2.64597	0	-1.685359	0	
524	N555A	2.584223	0	-1.983555	0	
525	N556A	2.671342	0	-1.870002	0	
526	N557A	2.758461	0	-1.756449	0	
527	N558A	2.871622	0	-1.597792	0	
528	N559A	2.679752	0	-2.057138	0	
529	N560A	2.775353	0	-1.942339	0	
530	N561A	2.870953	0	-1.82754	0	
531	N562A	2.992595	0	-1.667635	0	
532	N563A	2.775281	0	-2.130722	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
533	N564A	2.879363	0	-2.014676	0	
534	N565A	2.983445	0	-1.89863	0	
535	N566A	3.113569	0	-1.737479	0	
536	N567A	2.87081	0	-2.204305	0	
537	N568A	2.983373	0	-2.087013	0	
538	N569A	3.095937	0	-1.969721	0	
539	N570A	2.991856	0	-0.943602	0	
540	N571A	3.027341	0	-0.811173	0	
541	N572A	3.062825	0	-0.678744	0	
542	N573A	3.064701	0	-1.114002	0	
543	N574A	3.102638	0	-0.975648	0	
544	N575A	3.140575	0	-0.837294	0	
545	N576A	3.178512	0	-0.69894	0	
546	N577A	3.21645	0	-0.560586	0	
547	N578A	3.173029	0	-1.151972	0	
548	N579A	3.213419	0	-1.007693	0	
549	N580A	3.25381	0	-0.863414	0	
550	N581A	3.2942	0	-0.719135	0	
551	N582A	3.33459	0	-0.574856	0	
552	N583A	3.281357	0	-1.189942	0	
553	N584A	3.324201	0	-1.039738	0	
554	N585A	3.367044	0	-0.889534	0	
555	N586A	3.409888	0	-0.73933	0	
556	N587A	3.452731	0	-0.589126	0	
557	N588A	3.434982	0	-1.071784	0	
558	N589A	3.480279	0	-0.915655	0	
559	N590A	3.525575	0	-0.759526	0	
560	N591A	3.134156	0	-0.136579	0	
561	N592A	3.122207	0	-0.273158	0	
562	N593A	3.110258	0	-0.409737	0	
563	N594A	3.297593	0	0.00528	0	
564	N595A	3.277307	0	-0.136187	0	
565	N596A	3.257022	0	-0.277653	0	
566	N597A	3.236736	0	-0.419119	0	
567	N598A	3.449081	0	0.01056	0	
568	N599A	3.420459	0	-0.135794	0	
569	N600A	3.391836	0	-0.282148	0	
570	N601A	3.363213	0	-0.428502	0	
571	N602A	3.600569	0	0.015839	0	
572	N603A	3.56361	0	-0.135402	0	
573	N604A	3.52665	0	-0.286644	0	
574	N605A	3.48969	0	-0.437885	0	
575	N606A	3.706761	0	-0.13501	0	
576	N607A	3.661464	0	-0.291139	0	
577	N608A	3.616168	0	-0.447268	0	
578	N609A	3.134156	0	0.136579	0	
579	N610A	3.122207	0	0.273158	0	
580	N611A	3.110258	0	0.409737	0	
581	N612A	3.34289	0	0.161409	0	
582	N613A	3.321194	0	0.285899	0	
583	N614A	3.299498	0	0.410389	0	
584	N615A	3.277803	0	0.534879	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
585	N616A	3.256107	0	0.659368	0	
586	N617A	3.539674	0	0.322818	0	
587	N618A	3.508232	0	0.435218	0	
588	N619A	3.476789	0	0.547619	0	
589	N620A	3.445347	0	0.66002	0	
590	N621A	3.413905	0	0.772421	0	
591	N622A	3.736458	0	0.484226	0	
592	N623A	3.695269	0	0.584538	0	
593	N624A	3.65408	0	0.68485	0	
594	N625A	3.612891	0	0.785162	0	
595	N626	3.571702	0	0.885474	0	
596	N627	3.882307	0	0.733858	0	
597	N628	3.831371	0	0.822081	0	
598	N629	3.780436	0	0.910304	0	
599	N630	3.062825	0	0.678744	0	
600	N631	3.027341	0	0.811173	0	
601	N632	2.991856	0	0.943602	0	
602	N633	3.213869	0	0.785754	0	
603	N634	3.171631	0	0.912139	0	
604	N635	3.129392	0	1.038524	0	
605	N636	3.087154	0	1.164909	0	
606	N637	3.364913	0	0.892763	0	
607	N638	3.31592	0	1.013104	0	
608	N639	3.266928	0	1.133445	0	
609	N640	3.217936	0	1.253786	0	
610	N641	3.515956	0	0.999772	0	
611	N642	3.46021	0	1.114069	0	
612	N643	3.404464	0	1.228366	0	
613	N644	3.348718	0	1.342663	0	
614	N645	3.667	0	1.106781	0	
615	N646	3.6045	0	1.215034	0	
616	N647	3.542	0	1.323287	0	
617	N648	2.898431	0	1.200287	0	
618	N649	2.84049	0	1.324542	0	
619	N650	2.782549	0	1.448797	0	
620	N651	3.028073	0	1.285163	0	
621	N652	2.968992	0	1.405418	0	
622	N653	2.909911	0	1.525673	0	
623	N655	3.157716	0	1.37004	0	
624	N656	3.097495	0	1.486294	0	
625	N657	3.037274	0	1.602549	0	
626	N659	3.287358	0	1.454917	0	
627	N660	3.225998	0	1.56717	0	
628	N661	3.164637	0	1.679424	0	
629	N663	3.417	0	1.539793	0	
630	N664	3.3545	0	1.648046	0	
631	N665	3.292	0	1.7563	0	
632	N666	2.927402	0	-1.138159	0	
633	N667	2.898431	0	-1.200287	0	
634	N668	2.86946	0	-1.262414	0	
635	N669	3.037339	0	-1.180016	0	
636	N670	3.009977	0	-1.24603	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
637	N671	2.982616	0	-1.312044	0	
638	N672	2.955254	0	-1.378058	0	
639	N673	3.147276	0	-1.221872	0	
640	N674	3.121524	0	-1.291773	0	
641	N675	3.095771	0	-1.361673	0	
642	N676	3.070019	0	-1.431573	0	
643	N677	3.257214	0	-1.263729	0	
644	N678	3.23307	0	-1.337516	0	
645	N679	3.208927	0	-1.411302	0	
646	N680	3.184783	0	-1.485089	0	
647	N681	3.367151	0	-1.305586	0	
648	N682	3.344617	0	-1.383258	0	
649	N683	3.322082	0	-1.460931	0	
650	N684	2.811519	0	-1.38667	0	
651	N685	2.782549	0	-1.448797	0	
652	N686	2.927836	0	-1.444267	0	
653	N687	2.900417	0	-1.510477	0	
654	N688	3.044152	0	-1.501865	0	
655	N689	3.018286	0	-1.572157	0	
656	N690	3.160469	0	-1.559463	0	
657	N691	3.136155	0	-1.633837	0	
658	N692	3.276786	0	-1.61706	0	
659	N693	3.254024	0	-1.695516	0	
660	N694	1.203743	0	-3.729106	0	
661	N695	1.161172	0	-3.471528	0	
662	N696	3.84265	0	0.333377	0	
663	N697	3.610468	0	0.222251	0	
664	N698	3.575071	0	0.272534	0	
665	N699	3.731509	0	0.38102	0	
666	N700	3.887946	0	0.489506	0	
667	N701	3.726559	0	0.277814	0	
668	N702	3.436332	0	0.138907	0	
669	N703	3.529775	0	0.116405	0	
670	N704	3.663564	0	0.146827	0	
671	N705	3.797353	0	0.177248	0	
672	N706	1.305614	0	-3.729106	0	
673	N707	1.253539	0	-3.568119	0	
674	N708	1.182457	0	-3.600317	0	
675	N709	1.201465	0	-3.407133	0	
676	N710	1.101871	0	-3.729106	0	
677	N711	1.100733	0	-3.568119	0	
678	N712	1.099594	0	-3.407133	0	
679	N713	1.129244	0	-3.278344	0	
680	N714	3.182458	0	-1.897535	0	
681	N715	2.698565	0	-1.618159	0	
682	N716	2.819539	0	-1.688003	0	
683	N717	2.940512	0	-1.757847	0	
684	N718	3.061485	0	-1.827691	0	
685	N719	3.234542	0.333333	-1.807323	0	
686	N720	2.871622	0.333333	-1.597792	0	
687	N721	2.992595	0.333333	-1.667635	0	
688	N722	3.113569	0.333333	-1.737479	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
689	N723	3.182458	0.333333	-1.897535	0	
690	N724	2.819539	0.333333	-1.688003	0	
691	N725	2.940512	0.333333	-1.757847	0	
692	N726	3.061485	0.333333	-1.827691	0	
693	N727	3.234542	-0.333333	-1.807323	0	
694	N728	2.750649	-0.333333	-1.527948	0	
695	N729	2.871622	-0.333333	-1.597792	0	
696	N730	2.992595	-0.333333	-1.667635	0	
697	N731	3.113569	-0.333333	-1.737479	0	
698	N732	3.182458	-0.333333	-1.897535	0	
699	N733	2.698565	-0.333333	-1.618159	0	
700	N734	2.819539	-0.333333	-1.688003	0	
701	N735	2.940512	-0.333333	-1.757847	0	
702	N736	3.061485	-0.333333	-1.827691	0	
703	N737	3.234542	-0.166666	-1.807323	0	
704	N738	2.750649	-0.166666	-1.527948	0	
705	N739	2.871622	-0.166666	-1.597792	0	
706	N740	2.992595	-0.166666	-1.667635	0	
707	N741	3.113569	-0.166666	-1.737479	0	
708	N742	3.182458	-0.166666	-1.897535	0	
709	N743	2.698565	-0.166666	-1.618159	0	
710	N744	2.819539	-0.166666	-1.688003	0	
711	N745	2.940512	-0.166666	-1.757847	0	
712	N746	3.061485	-0.166666	-1.827691	0	
713	N747	3.234542	0.166667	-1.807323	0	
714	N748	2.750649	0.166667	-1.527948	0	
715	N749	2.871622	0.166667	-1.597792	0	
716	N750	2.992595	0.166667	-1.667635	0	
717	N751	3.113569	0.166667	-1.737479	0	
718	N752	3.182458	0.166667	-1.897535	0	
719	N753	2.698565	0.166667	-1.618159	0	
720	N754	2.819539	0.166667	-1.688003	0	
721	N755	2.940512	0.166667	-1.757847	0	
722	N756	3.061485	0.166667	-1.827691	0	
723	N760	-3.182459	0	-1.897534	0	
724	N761	-1.407485	0	-3.729106	0	
725	N762	-3.933243	0	0.645635	0	
726	N764	-0.546315	0	-3.098309	0	
727	N765	-1.076031	0	-2.956372	0	
728	N766	-1.573053	0	-2.724607	0	
729	N767	-2.022278	0	-2.410057	0	
730	N768	-2.410057	0	-2.022278	0	
731	N769	-2.698566	0	-1.618158	0	
732	N770	-2.956372	0	-1.076031	0	
733	N771	-3.098309	0	-0.546315	0	
734	N772	-3.146106	0	-3.9e-13	0	
735	N773	-3.098309	0	0.546315	0	
736	N774	-2.956372	0	1.076031	0	
737	N777	-0.5	0	-3.729106	0	
738	N778	-1	0	-3.729106	0	
739	N780	-3.4795	0	1.43154	0	
740	N781	-3.7295	0	0.998527	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
741	N782	-1.857739	0	-3.259936	0	
742	N783	-2.307993	0	-2.790767	0	
743	N784	-2.758246	0	-2.321598	0	
744	N785	-3.389686	0	-1.227913	0	
745	N786	-3.570871	0	-0.603397	0	
746	N787	-3.752057	0	0.021119	0	
747	N788	-2.567332	0	-1.797665	0	
748	N789	-2.982244	0	-2.08819	0	
749	N793	-2.782549	0	1.448797	0	
750	N794A	-2.84049	0	1.324542	0	
751	N795A	-2.898431	0	1.200287	0	
752	N796A	-2.909911	0	1.525673	0	
753	N797A	-2.968992	0	1.405418	0	
754	N798A	-3.028073	0	1.285163	0	
755	N799A	-3.087154	0	1.164909	0	
756	N800A	-3.037274	0	1.602549	0	
757	N801A	-3.097495	0	1.486294	0	
758	N802A	-3.157716	0	1.37004	0	
759	N803A	-3.217936	0	1.253786	0	
760	N804A	-3.164637	0	1.679424	0	
761	N805A	-3.225998	0	1.56717	0	
762	N806A	-3.287358	0	1.454917	0	
763	N807A	-3.348718	0	1.342663	0	
764	N808A	-3.292	0	1.7563	0	
765	N809A	-3.3545	0	1.648046	0	
766	N810A	-3.417	0	1.539793	0	
767	N811A	-2.991856	0	0.943602	0	
768	N812A	-3.027341	0	0.811173	0	
769	N813A	-3.062825	0	0.678744	0	
770	N814	-3.129392	0	1.038524	0	
771	N815A	-3.171631	0	0.912139	0	
772	N816A	-3.213869	0	0.785754	0	
773	N817	-3.256107	0	0.659368	0	
774	N818A	-3.266928	0	1.133445	0	
775	N819A	-3.31592	0	1.013104	0	
776	N820	-3.364913	0	0.892763	0	
777	N821A	-3.413905	0	0.772421	0	
778	N822A	-3.404464	0	1.228366	0	
779	N823	-3.46021	0	1.114069	0	
780	N824A	-3.515956	0	0.999772	0	
781	N825A	-3.571702	0	0.885474	0	
782	N826	-3.542	0	1.323287	0	
783	N827	-3.6045	0	1.215034	0	
784	N828	-3.667	0	1.106781	0	
785	N829	-3.724509	0	0.620805	0	
786	N830	-3.515776	0	0.595975	0	
787	N831	-3.307043	0	0.571145	0	
788	N832	-3.887946	0	0.489506	0	
789	N833	-3.693524	0	0.469564	0	
790	N834	-3.499102	0	0.449621	0	
791	N835	-3.30468	0	0.429679	0	
792	N836	-3.110258	0	0.409737	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
793	N837	-3.84265	0	0.333377	0	
794	N838	-3.662539	0	0.318322	0	
795	N839	-3.482429	0	0.303267	0	
796	N840	-3.302318	0	0.288213	0	
797	N841	-3.122207	0	0.273158	0	
798	N842	-3.797353	0	0.177248	0	
799	N843	-3.631554	0	0.167081	0	
800	N844	-3.465755	0	0.156913	0	
801	N845	-3.299956	0	0.146746	0	
802	N846	-3.134156	0	0.136579	0	
803	N847	-3.600569	0	0.015839	0	
804	N848	-3.449081	0	0.01056	0	
805	N849	-3.297593	0	0.00528	0	
806	N850	-3.706761	0	-0.13501	0	
807	N851	-3.56361	0	-0.135402	0	
808	N852	-3.420459	0	-0.135794	0	
809	N853	-3.277307	0	-0.136187	0	
810	N854	-3.134156	0	-0.136579	0	
811	N855	-3.661464	0	-0.291139	0	
812	N856	-3.52665	0	-0.286644	0	
813	N857	-3.391836	0	-0.282148	0	
814	N858	-3.257022	0	-0.277653	0	
815	N859	-3.122207	0	-0.273158	0	
816	N860	-3.616168	0	-0.447268	0	
817	N861	-3.48969	0	-0.437885	0	
818	N862	-3.363213	0	-0.428502	0	
819	N863	-3.236736	0	-0.419119	0	
820	N864	-3.110258	0	-0.409737	0	
821	N865	-3.452731	0	-0.589126	0	
822	N866	-3.33459	0	-0.574856	0	
823	N867	-3.21645	0	-0.560586	0	
824	N868	-3.525575	0	-0.759526	0	
825	N869	-3.409888	0	-0.73933	0	
826	N870	-3.2942	0	-0.719135	0	
827	N871	-3.178512	0	-0.69894	0	
828	N872	-3.062825	0	-0.678744	0	
829	N873	-3.480279	0	-0.915655	0	
830	N874	-3.367044	0	-0.889534	0	
831	N875	-3.25381	0	-0.863414	0	
832	N876	-3.140575	0	-0.837294	0	
833	N877	-3.027341	0	-0.811173	0	
834	N878	-3.434982	0	-1.071784	0	
835	N879	-3.324201	0	-1.039738	0	
836	N880	-3.213419	0	-1.007693	0	
837	N881	-3.102638	0	-0.975648	0	
838	N882	-2.991856	0	-0.943602	0	
839	N883	-3.281357	0	-1.189942	0	
840	N884	-3.173029	0	-1.151972	0	
841	N885	-3.064701	0	-1.114002	0	
842	N886	-2.898431	0	-1.200287	0	
843	N887	-2.84049	0	-1.324542	0	
844	N888	-2.782549	0	-1.448797	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
845	N889	-3.009921	0	-1.246225	0	
846	N890	-2.955141	0	-1.378449	0	
847	N891	-2.900361	0	-1.510673	0	
848	N892	-2.819539	0	-1.688002	0	
849	N893	-3.12141	0	-1.292164	0	
850	N894	-3.069791	0	-1.432356	0	
851	N895	-3.018173	0	-1.572548	0	
852	N896	-2.940512	0	-1.757846	0	
853	N897	-3.2329	0	-1.338103	0	
854	N898	-3.184442	0	-1.486263	0	
855	N899C	-3.135985	0	-1.634424	0	
856	N900B	-3.061486	0	-1.82769	0	
857	N901B	-3.344389	0	-1.384042	0	
858	N902B	-3.299093	0	-1.540171	0	
859	N903	-3.253797	0	-1.6963	0	
860	N904	-2.313112	0	-2.119222	0	
861	N905A	-2.216167	0	-2.216167	0	
862	N906A	-2.119222	0	-2.313112	0	
863	N907	-2.497104	0	-2.097108	0	
864	N908	-2.396255	0	-2.199139	0	
865	N909	-2.295405	0	-2.301171	0	
866	N910	-2.194556	0	-2.403203	0	
867	N911A	-2.093706	0	-2.505234	0	
868	N912B	-2.584152	0	-2.171938	0	
869	N913B	-2.479397	0	-2.279056	0	
870	N914B	-2.374643	0	-2.386175	0	
871	N915B	-2.269889	0	-2.493293	0	
872	N916B	-2.165135	0	-2.600412	0	
873	N917A	-2.671199	0	-2.246768	0	
874	N918A	-2.56254	0	-2.358973	0	
875	N919A	-2.453881	0	-2.471179	0	
876	N920A	-2.345223	0	-2.583384	0	
877	N921A	-2.236564	0	-2.695589	0	
878	N922B	-2.645683	0	-2.43889	0	
879	N923B	-2.53312	0	-2.556182	0	
880	N924B	-2.420556	0	-2.673475	0	
881	N925B	-1.685359	0	-2.64597	0	
882	N926B	-1.797665	0	-2.567332	0	
883	N927	-1.909971	0	-2.488694	0	
884	N928	-1.644224	0	-2.85844	0	
885	N929	-1.756595	0	-2.770138	0	
886	N930	-1.868965	0	-2.681837	0	
887	N931	-1.981336	0	-2.593536	0	
888	N932	-1.715396	0	-2.992272	0	
889	N933	-1.827831	0	-2.894307	0	
890	N934	-1.940265	0	-2.796342	0	
891	N935	-2.0527	0	-2.698377	0	
892	N936	-1.786567	0	-3.126104	0	
893	N937	-1.899066	0	-3.018475	0	
894	N938	-2.011566	0	-2.910847	0	
895	N939	-2.124065	0	-2.803218	0	
896	N940	-1.970302	0	-3.142644	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
897	N941	-2.082866	0	-3.025352	0	
898	N942	-2.195429	0	-2.908059	0	
899	N943	-1.448797	0	-2.782549	0	
900	N944	-1.324542	0	-2.84049	0	
901	N945	-1.200287	0	-2.898431	0	
902	N946	-1.531661	0	-2.975732	0	
903	N947	-1.413002	0	-3.019188	0	
904	N948	-1.294342	0	-3.062644	0	
905	N949	-1.175683	0	-3.1061	0	
906	N950	-1.057024	0	-3.149556	0	
907	N951A	-1.490269	0	-3.226856	0	
908	N952C	-1.377206	0	-3.255827	0	
909	N953B	-1.264142	0	-3.284798	0	
910	N954B	-1.151079	0	-3.313768	0	
911	N955C	-1.038016	0	-3.342739	0	
912	N956C	-1.448877	0	-3.477981	0	
913	N957B	-1.34141	0	-3.492466	0	
914	N958A	-1.233942	0	-3.506952	0	
915	N959	-1.126475	0	-3.521437	0	
916	N960A	-1.019008	0	-3.535922	0	
917	N961A	-1.305614	0	-3.729106	0	
918	N962A	-1.203743	0	-3.729106	0	
919	N963A	-1.101871	0	-3.729106	0	
920	N964A	-0.943602	0	-2.991856	0	
921	N965	-0.811173	0	-3.027341	0	
922	N966A	-0.678744	0	-3.062825	0	
923	N967A	-0.926452	0	-3.176169	0	
924	N968A	-0.79588	0	-3.202782	0	
925	N969A	-0.665308	0	-3.229395	0	
926	N970A	-0.534737	0	-3.256008	0	
927	N971A	-0.909301	0	-3.360481	0	
928	N972A	-0.780587	0	-3.378223	0	
929	N973A	-0.651872	0	-3.395965	0	
930	N974	-0.523158	0	-3.413707	0	
931	N975	-0.892151	0	-3.544793	0	
932	N976A	-0.765293	0	-3.553664	0	
933	N977A	-0.638436	0	-3.562535	0	
934	N978	-0.511579	0	-3.571406	0	
935	N979A	-0.875	0	-3.729106	0	
936	N980A	-0.75	0	-3.729106	0	
937	N981A	-0.625	0	-3.729106	0	
938	N982A	-0.409737	0	-3.110258	0	
939	N983A	-0.273158	0	-3.122207	0	
940	N984A	-0.136579	0	-3.134156	0	
941	N985A	-0.401052	0	-3.26497	0	
942	N986A	-0.267368	0	-3.273932	0	
943	N987	-0.133684	0	-3.282894	0	
944	N989	-0.392368	0	-3.419682	0	
945	N990	-0.261579	0	-3.425656	0	
946	N991	-0.130789	0	-3.431631	0	
947	N993A	-0.383684	0	-3.574394	0	
948	N994	-0.255789	0	-3.577381	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
949	N995A	-0.127895	0	-3.580368	0	
950	N997A	-0.375	0	-3.729106	0	
951	N998A	-0.25	0	-3.729106	0	
952	N999A	-0.125	0	-3.729106	0	
953	N1000A	-2.449376	0	-1.966125	0	
954	N1001A	-2.488694	0	-1.909971	0	
955	N1002A	-2.528013	0	-1.853818	0	
956	N1003	-2.540593	0	-2.040405	0	
957	N1004	-2.584082	0	-1.983702	0	
958	N1005	-2.627571	0	-1.926999	0	
959	N1006	-2.67106	0	-1.870296	0	
960	N1007	-2.631811	0	-2.114685	0	
961	N1008	-2.67947	0	-2.057433	0	
962	N1009	-2.727129	0	-2.00018	0	
963	N1010	-2.774788	0	-1.942928	0	
964	N1011	-2.723028	0	-2.188965	0	
965	N1012	-2.774858	0	-2.131163	0	
966	N1013	-2.826687	0	-2.073361	0	
967	N1014	-2.878516	0	-2.015559	0	
968	N1015	-2.814246	0	-2.263246	0	
969	N1016	-2.870245	0	-2.204894	0	
970	N1017	-2.926245	0	-2.146542	0	
971	N1018	-2.606651	0	-1.741512	0	
972	N1019	-2.64597	0	-1.685359	0	
973	N1020	-2.71469	0	-1.813446	0	
974	N1021	-2.75832	0	-1.756597	0	
975	N1022	-2.822729	0	-1.885381	0	
976	N1023	-2.870671	0	-1.827834	0	
977	N1024	-2.930769	0	-1.957315	0	
978	N1025	-2.983022	0	-1.899072	0	
979	N1026	-3.038808	0	-2.029249	0	
980	N1027	-3.095372	0	-1.970309	0	
981	N1028	-3.831371	0	0.822081	0	
982	N1029	-3.587017	0	0.730159	0	
983	N1030	-1.632612	0	-3.494521	0	
984	N1031	-1.612759	0	-3.237883	0	
985	N1032	-1.551514	0	-3.23237	0	
986	N1033	-1.535781	0	-3.422091	0	
987	N1034	-1.520048	0	-3.611813	0	
988	N1035	-1.622685	0	-3.366202	0	
989	N1036	-1.597869	0	-3.045405	0	
990	N1037	-1.664077	0	-3.115077	0	
991	N1038	-1.704626	0	-3.246153	0	
992	N1039	-1.745175	0	-3.377229	0	
993	N1040	-3.882307	0	0.733858	0	
994	N1041	-3.716852	0	0.698463	0	
995	N1042	-3.709194	0	0.77612	0	
996	N1043	-3.551397	0	0.663067	0	
997	N1044	-3.780436	0	0.910304	0	
998	N1045	-3.640448	0	0.830797	0	
999	N1046	-3.500461	0	0.75129	0	
1000	N1047	-3.403752	0	0.661218	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1001	N1048	-3.234542	0	-1.807322	0	
1002	N1049	-2.750649	0	-1.527947	0	
1003	N1050	-2.871623	0	-1.597791	0	
1004	N1051	-2.992596	0	-1.667635	0	
1005	N1052	-3.113569	0	-1.737479	0	
1006	N1053	-3.182459	0.333333	-1.897534	0	
1007	N1054	-2.819539	0.333333	-1.688002	0	
1008	N1055	-2.940512	0.333333	-1.757846	0	
1009	N1056	-3.061486	0.333333	-1.82769	0	
1010	N1057	-3.234542	0.333333	-1.807322	0	
1011	N1058	-2.871623	0.333333	-1.597791	0	
1012	N1059	-2.992596	0.333333	-1.667635	0	
1013	N1060	-3.113569	0.333333	-1.737479	0	
1014	N1061	-3.182459	-0.333333	-1.897534	0	
1015	N1062	-2.698566	-0.333333	-1.618158	0	
1016	N1063	-2.819539	-0.333333	-1.688002	0	
1017	N1064	-2.940512	-0.333333	-1.757846	0	
1018	N1065	-3.061486	-0.333333	-1.82769	0	
1019	N1066	-3.234542	-0.333333	-1.807322	0	
1020	N1067	-2.750649	-0.333333	-1.527947	0	
1021	N1068	-2.871623	-0.333333	-1.597791	0	
1022	N1069	-2.992596	-0.333333	-1.667635	0	
1023	N1070	-3.113569	-0.333333	-1.737479	0	
1024	N1071	-3.182459	-0.166666	-1.897534	0	
1025	N1072	-2.698566	-0.166666	-1.618158	0	
1026	N1073	-2.819539	-0.166666	-1.688002	0	
1027	N1074	-2.940512	-0.166666	-1.757846	0	
1028	N1075	-3.061486	-0.166666	-1.82769	0	
1029	N1076	-3.234542	-0.166666	-1.807322	0	
1030	N1077	-2.750649	-0.166666	-1.527947	0	
1031	N1078	-2.871623	-0.166666	-1.597791	0	
1032	N1079	-2.992596	-0.166666	-1.667635	0	
1033	N1080	-3.113569	-0.166666	-1.737479	0	
1034	N1081	-3.182459	0.166667	-1.897534	0	
1035	N1082	-2.698566	0.166667	-1.618158	0	
1036	N1083	-2.819539	0.166667	-1.688002	0	
1037	N1084	-2.940512	0.166667	-1.757846	0	
1038	N1085	-3.061486	0.166667	-1.82769	0	
1039	N1086	-3.234542	0.166667	-1.807322	0	
1040	N1087	-2.750649	0.166667	-1.527947	0	
1041	N1088	-2.871623	0.166667	-1.597791	0	
1042	N1089	-2.992596	0.166667	-1.667635	0	
1043	N1090	-3.113569	0.166667	-1.737479	0	
1044	N1066A	-2.525758	0.208333	3.083471	0	
1045	N1067A	2.525758	0.208333	3.083471	0	
1046	N1068A	-1.894318	0.208333	3.238817	0	
1047	N1069A	-1.262879	0.208333	3.394164	0	
1048	N1070A	-0.631439	0.208333	3.54951	0	
1049	N1071A	0.631439	0.208333	3.54951	0	
1050	N1072A	1.262879	0.208333	3.394164	0	
1051	N1073A	1.894318	0.208333	3.238817	0	
1052	N1074A	-0.317303	0.208333	3.626794	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1053	N1075A	2.367898	0.208333	3.122307	0	
1054	N1076A	2.210038	0.208333	3.161144	0	
1055	N1077A	2.052178	0.208333	3.199981	0	
1056	N1078A	1.736458	0.208333	3.277654	0	
1057	N1079A	1.578599	0.208333	3.31649	0	
1058	N1080A	1.420739	0.208333	3.355327	0	
1059	N1081A	1.105019	0.208333	3.433	0	
1060	N1082A	0.947159	0.208333	3.471837	0	
1061	N1083A	0.789299	0.208333	3.510674	0	
1062	N1084A	0.47358	0.208333	3.588347	0	
1063	N1085A	0.31572	0.208333	3.627184	0	
1064	N1086A	0.15786	0.208333	3.66602	0	
1065	N1087A	-0.789299	0.208333	3.510674	0	
1066	N1088A	-0.947159	0.208333	3.471837	0	
1067	N1089A	-1.105019	0.208333	3.433	0	
1068	N1090A	-1.736458	0.208333	3.277654	0	
1069	N1091	-1.578599	0.208333	3.31649	0	
1070	N1092	-1.420739	0.208333	3.355327	0	
1071	N1093	-0.552905	0.208333	3.568831	0	
1072	N1094	-0.474371	0.208333	3.588152	0	
1073	N1095	-0.395837	0.208333	3.607473	0	
1074	N1096	-0.237978	0.208333	3.64631	0	
1075	N1097	-0.158652	0.208333	3.665826	0	
1076	N1098	-2.210038	0.208333	3.161144	0	
1077	N1099	-2.367898	0.208333	3.122307	0	
1078	N1100	-2.052178	0.208333	3.199981	0	
1079	N1136	3.933243	0.208333	0.645635	0	
1080	N1137	1.407485	0.208333	-3.729106	0	
1081	N1138	3.752057	0.208333	0.021119	0	
1082	N1139	3.570871	0.208333	-0.603397	0	
1083	N1140	3.389686	0.208333	-1.227913	0	
1084	N1141	2.758246	0.208333	-2.321598	0	
1085	N1142	2.307993	0.208333	-2.790767	0	
1086	N1143	1.857739	0.208333	-3.259936	0	
1087	N1144	3.299547	0.208333	-1.538604	0	
1088	N1145	1.520048	0.208333	-3.611813	0	
1089	N1146	1.632612	0.208333	-3.494521	0	
1090	N1147	1.745175	0.208333	-3.377229	0	
1091	N1148	1.970302	0.208333	-3.142644	0	
1092	N1149	2.082866	0.208333	-3.025352	0	
1093	N1150	2.195429	0.208333	-2.908059	0	
1094	N1151	2.420556	0.208333	-2.673475	0	
1095	N1152	2.53312	0.208333	-2.556182	0	
1096	N1153	2.645683	0.208333	-2.43889	0	
1097	N1154	2.87081	0.208333	-2.204305	0	
1098	N1155	2.983373	0.208333	-2.087013	0	
1099	N1156	3.095937	0.208333	-1.969721	0	
1100	N1157	3.434982	0.208333	-1.071784	0	
1101	N1158	3.480279	0.208333	-0.915655	0	
1102	N1159	3.525575	0.208333	-0.759526	0	
1103	N1160	3.706761	0.208333	-0.13501	0	
1104	N1161	3.661464	0.208333	-0.291139	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1105	N1162	3.616168	0.208333	-0.447268	0	
1106	N1163	3.367151	0.208333	-1.305586	0	
1107	N1164	3.344617	0.208333	-1.383258	0	
1108	N1165	3.322082	0.208333	-1.460931	0	
1109	N1166	3.276786	0.208333	-1.61706	0	
1110	N1167	3.254024	0.208333	-1.695516	0	
1111	N1168	3.84265	0.208333	0.333377	0	
1112	N1169	3.887946	0.208333	0.489506	0	
1113	N1170	3.797353	0.208333	0.177248	0	
1114	N1206	-1.407485	0.208333	-3.729106	0	
1115	N1207	-3.933243	0.208333	0.645635	0	
1116	N1208	-1.857739	0.208333	-3.259936	0	
1117	N1209	-2.307993	0.208333	-2.790767	0	
1118	N1210	-2.758246	0.208333	-2.321598	0	
1119	N1211	-3.389686	0.208333	-1.227913	0	
1120	N1212	-3.570871	0.208333	-0.603397	0	
1121	N1213	-3.752057	0.208333	0.021119	0	
1122	N1214	-2.982244	0.208333	-2.08819	0	
1123	N1215	-3.887946	0.208333	0.489506	0	
1124	N1216	-3.84265	0.208333	0.333377	0	
1125	N1217	-3.797353	0.208333	0.177248	0	
1126	N1218	-3.706761	0.208333	-0.13501	0	
1127	N1219	-3.661464	0.208333	-0.291139	0	
1128	N1220	-3.616168	0.208333	-0.447268	0	
1129	N1221	-3.525575	0.208333	-0.759526	0	
1130	N1222	-3.480279	0.208333	-0.915655	0	
1131	N1223	-3.434982	0.208333	-1.071784	0	
1132	N1224	-3.344389	0.208333	-1.384042	0	
1133	N1225	-3.299093	0.208333	-1.540171	0	
1134	N1226	-3.253797	0.208333	-1.6963	0	
1135	N1227	-2.645683	0.208333	-2.43889	0	
1136	N1228	-2.53312	0.208333	-2.556182	0	
1137	N1229	-2.420556	0.208333	-2.673475	0	
1138	N1230	-1.970302	0.208333	-3.142644	0	
1139	N1231	-2.082866	0.208333	-3.025352	0	
1140	N1232	-2.195429	0.208333	-2.908059	0	
1141	N1233	-2.814246	0.208333	-2.263246	0	
1142	N1234	-2.870245	0.208333	-2.204894	0	
1143	N1235	-2.926245	0.208333	-2.146542	0	
1144	N1236	-3.038808	0.208333	-2.029249	0	
1145	N1237	-3.095372	0.208333	-1.970309	0	
1146	N1238	-1.632612	0.208333	-3.494521	0	
1147	N1239	-1.520048	0.208333	-3.611813	0	
1148	N1240	-1.745175	0.208333	-3.377229	0	
1149	N1171	-0.507185	0	-6.254436	0	
1150	N1172	0.507185	0	-6.254436	0	
1151	N1175	-5.162908	0	3.566453	0	
1152	N1176	-5.670093	0	2.687983	0	
1153	N1179	5.670093	0	2.687983	0	
1154	N1180	5.162908	0	3.566453	0	
1155	N1175A	-2.375334	0	-3.295515	0	
1156	N1183	-4.041667	0	-0.409342	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1157	N1171A	-5.8752	-0.50007	2.766431	0	
1158	N1173A	3.291667	0	-1.70838	0	
1159	N1175C	0.5418	0	-6.471288	0	
1160	N1176A	-3.125334	0	-1.996477	0	
1161	N1179A	-6.25	4.500004	3.704857	0	
1162	N1180A	6.25	4.500004	3.704857	0	
1163	N1181	-5.083	4.500004	3.704857	0	
1164	N1182	5.083	4.500004	3.704857	0	
1165	N1183A	6.3335	4.500004	3.56023	0	
1166	N1184	0.0835	4.500004	-7.265087	0	
1167	N1185	5.75	4.500004	2.549579	0	
1168	N1186	0.667	4.500004	-6.254436	0	
1169	N1187	-0.0835	4.500004	-7.265087	0	
1170	N1188	-6.3335	4.500004	3.56023	0	
1171	N1189	-0.667	4.500004	-6.254436	0	
1172	N1190	-5.75	4.500004	2.549579	0	
1173	N1193	5.3334	4.500004	3.704857	0	
1174	N1203	-3.500334	-0.50007	-1.346958	0	
1175	N1197A	0.083667	4.500004	3.704857	0	
1176	N1199A	-3.500334	0	-1.346958	0	
1177	N1201B	-3.584	0	3.704857	0	
1178	N1202A	3.584	0	3.704857	0	
1179	N1203A	-3.584	4.500004	3.704857	0	
1180	N1204	3.584	4.500004	3.704857	0	
1181	N1205	0.083667	0	3.954857	0	
1182	N1206A	0.083667	4.500004	3.954857	0	
1183	N1207A	-3.584	0	3.954857	0	
1184	N1208A	3.584	0	3.954857	0	
1185	N1209A	-3.584	4.500004	3.954857	0	
1186	N1210A	3.584	4.500004	3.954857	0	
1187	N1197	3.166667	0	-1.924886	0	
1188	N1198	1.633007	4.99993	-5.081264	0	
1189	N1199	3.383173	4.99993	-2.049886	0	
1190	N1200	5.217007	4.99993	1.126407	0	
1191	N1201A	1.633007	-1.00007	-5.081264	0	
1192	N1202	3.383173	-3.00007	-2.049886	0	
1193	N1203B	5.217007	-1.00007	1.126407	0	
1194	N1204A	3.166667	4.500004	-1.924886	0	
1195	N1205A	5.0005	0	1.251407	0	
1196	N1206B	1.4165	0	-4.956264	0	
1197	N1207B	5.0005	4.500004	1.251407	0	
1198	N1208B	1.4165	4.500004	-4.956264	0	
1199	N1209B	3.383173	0	-2.049886	0	
1200	N1210B	3.383173	4.500004	-2.049886	0	
1201	N1211A	5.217007	0	1.126407	0	
1202	N1212A	1.633007	0	-5.081264	0	
1203	N1213A	5.217007	4.500004	1.126407	0	
1204	N1214A	1.633007	4.500004	-5.081264	0	
1205	N1215A	-3.250334	0	-1.779971	0	
1206	N1216A	-5.217007	4.99993	1.126407	0	
1207	N1217A	-3.46684	4.99993	-1.904971	0	
1208	N1218A	-1.633007	4.99993	-5.081264	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1209	N1219A	-5.217007	-1.00007	1.126407	0	
1210	N1220A	-3.46684	-3.00007	-1.904971	0	
1211	N1221A	-1.633007	-1.00007	-5.081264	0	
1212	N1222A	-3.250334	4.500004	-1.779971	0	
1213	N1223A	-1.4165	0	-4.956264	0	
1214	N1224A	-5.0005	0	1.251407	0	
1215	N1225A	-1.4165	4.500004	-4.956264	0	
1216	N1226A	-5.0005	4.500004	1.251407	0	
1217	N1227A	-3.46684	0	-1.904971	0	
1218	N1228A	-3.46684	4.500004	-1.904971	0	
1219	N1229A	-1.633007	0	-5.081264	0	
1220	N1230A	-5.217007	0	1.126407	0	
1221	N1231A	-1.633007	4.500004	-5.081264	0	
1222	N1232A	-5.217007	4.500004	1.126407	0	
1223	N1233A	-4.8e-13	5.167	1.25	0	
1224	N1234A	1.082532	4.167	-0.625	0	
1225	N1235A	-1.082532	4.167	-0.625	0	
1226	N1226B	-4.084	4.500004	3.704857	0	
1227	N1227B	4.084	4.500004	3.704857	0	
1228	N1228B	-1	5.167	1.25	0	
1229	N1229B	1.	5.167	1.25	0	
1230	N1231B	1.082532	5.167	-0.625	0	
1231	N1232B	5.2505	4.500004	1.684419	0	
1232	N1233B	1.1665	4.500004	-5.389276	0	
1233	N1234B	1.582532	5.167	0.241025	0	
1234	N1235B	0.582532	5.167	-1.491025	0	
1235	N1237A	-1.082532	5.167	-0.625	0	
1236	N1238A	-1.1665	4.500004	-5.389276	0	
1237	N1239A	-5.2505	4.500004	1.684419	0	
1238	N1240A	-0.582532	5.167	-1.491025	0	
1239	N1241	-1.582532	5.167	0.241025	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipes	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	Footrails	HSS3.500x0.165	Beam	Pipe	A500 Gr.B Rect	Typical	1.729	2.409	2.409	4.819
3	Plan Bracing	PL3/8x4	Beam	RECT	A36 Gr.36	Typical	1.5	.018	2	.066
4	Handrails	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
5	Grating Angle	L2x2x3	Beam	Single Angle	A572 Gr.50	Typical	.722	.271	.271	.009
6	Standoff Arm	HSS4X4X3	Beam	SquareTube	A500 Gr.B Rect	Typical	2.58	6.21	6.21	10
7	Plate Bracing2	PL1/4x4	Beam	RECT	A36 Gr.36	Typical	1	.005	1.333	.02
8	HR8	C6X8.2	Beam	Channel	A36 Gr.36	Typical	2.39	.687	13.1	.074

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	CF1A	1.5CU1.25X035	Beam	CU	A570 Gr.33	Typical	.131	.022	.052	5.4e-5
2	V-brace	5.44CU3.7x01875	Beam	CU	A570 Gr.33	Typical	2.282	3.25	11.195	.027
3	V-brace collar	6CU6.5X0250	Beam	CU	A570 Gr.33	Typical	4.437	19.798	28.609	.092

Aluminum Section Sets

	Label	Shape	Type	Design List	Material	Design Rules	A [in ²]	I _{yy} [in ⁴]	I _{zz} [in ⁴]	J [in ⁴]
1	AL1A	AACS14X13.9	Beam	AA Channel	3003-H14	Typical	11.8	44.7	401	1.19

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3	A992	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

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksi]	Fu[ksi]
1	A570 Gr.33	29500	11346	.3	.65	.49	33	52
2	A607 C1 Gr.55	29500	11346	.3	.65	.49	55	70

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (...Density[...Table B.4	kt	Ftu[ksi]	Fty[ksi]	Fcy[ksi]	Fsu[ksi]	Ct		
1	3003-H14	10100	3787.5	.33	1.3	.173	Table B...	1	19	16	13	12	141
2	6061-T6	10100	3787.5	.33	1.3	.173	Table B...	1	38	35	35	24	141
3	6063-T5	10100	3787.5	.33	1.3	.173	Table B...	1	22	16	16	13	141
4	6063-T6	10100	3787.5	.33	1.3	.173	Table B...	1	30	25	25	19	141
5	5052-H34	10200	3787.5	.33	1.3	.173	Table B...	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	.33	1.3	.173	Table B...	1	24	15	15	15	141

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N34			HSS3.500x0.1...	Beam	Pipe	A53 Gr.B	Typical
2	M5	N20	N5			Plan Bracing	Beam	RECT	A36 Gr.36	Typical
3	M7	N6	N12			Plan Bracing	Beam	RECT	A36 Gr.36	Typical
4	M8	N1171	N30			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
5	M9	N13	N19			Plan Bracing	Beam	RECT	A36 Gr.36	Typical
6	M10	N22	N23		270	Grating Angle	Beam	Single Angle	A572 Gr.50	Typical
7	M11	N24	N25			Grating Angle	Beam	Single Angle	A572 Gr.50	Typical
8	M12	N25A	N26		270	Grating Angle	Beam	Single Angle	A572 Gr.50	Typical
9	M13	N27	N28			Grating Angle	Beam	Single Angle	A572 Gr.50	Typical
10	M14	N30	N31		270	Grating Angle	Beam	Single Angle	A572 Gr.50	Typical
11	M15	N32	N33			Grating Angle	Beam	Single Angle	A572 Gr.50	Typical
12	M16	N952A	N2			HSS3.500x0.1...	Beam	Pipe	A53 Gr.B	Typical
13	M34	N80A	N81A			HSS4X4X4	Beam	SquareTube	A500 Gr.B...	Typical
14	M35	N83	N84			HSS4X4X4	Beam	SquareTube	A500 Gr.B...	Typical
15	M36	N86	N87			HSS4X4X4	Beam	SquareTube	A500 Gr.B...	Typical
16	MP3A	N871A	N874A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
17	MP2A	N870A	N873A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
18	MP1A	N869A	N872A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
19	M44	N93A	N903B			RIGID	None	None	RIGID	Typical
20	M45	N208	N906			RIGID	None	None	RIGID	Typical
21	M46	N204	N905			RIGID	None	None	RIGID	Typical
22	M47	N200	N904B			RIGID	None	None	RIGID	Typical
23	M48	N92A	N902A			RIGID	None	None	RIGID	Typical
24	M49	N117	N913			RIGID	None	None	RIGID	Typical
25	M50	N614	N916			RIGID	None	None	RIGID	Typical
26	M51	N618	N915			RIGID	None	None	RIGID	Typical
27	M52	N622	N914			RIGID	None	None	RIGID	Typical
28	M53	N134	N912			RIGID	None	None	RIGID	Typical
29	M54	N141	N923			RIGID	None	None	RIGID	Typical
30	M55	N407	N926			RIGID	None	None	RIGID	Typical
31	M56	N411	N925			RIGID	None	None	RIGID	Typical
32	M57	N415	N924			RIGID	None	None	RIGID	Typical
33	M58	N140	N922			RIGID	None	None	RIGID	Typical
34	M46A	N996	N1001			RIGID	None	None	RIGID	Typical
35	M47A	N980	N985			RIGID	None	None	RIGID	Typical
36	M48A	N979	N984			RIGID	None	None	RIGID	Typical
37	M54B	N8	N426A			HSS3.500x0.1...	Beam	Pipe	A53 Gr.B	Typical
38	M55B	N714	N9			HSS3.500x0.1...	Beam	Pipe	A53 Gr.B	Typical
39	M56B	N750	N755			RIGID	None	None	RIGID	Typical
40	M57B	N740	N745			RIGID	None	None	RIGID	Typical
41	M58A	N739	N744			RIGID	None	None	RIGID	Typical
42	M68	N15	N760			HSS3.500x0.1...	Beam	Pipe	A53 Gr.B	Typical
43	M69	N1048	N16			HSS3.500x0.1...	Beam	Pipe	A53 Gr.B	Typical
44	M70	N1084	N1089			RIGID	None	None	RIGID	Typical
45	M71	N1074	N1079			RIGID	None	None	RIGID	Typical
46	M72	N1073	N1078			RIGID	None	None	RIGID	Typical
47	M55A	N18	N1171			RIGID	None	None	RIGID	Typical
48	M56A	N14	N1172			RIGID	None	None	RIGID	Typical
49	M55C	N1175	N22			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
50	M56C	N4	N1175			RIGID	None	None	RIGID	Typical
51	M57A	N21	N1176			RIGID	None	None	RIGID	Typical
52	M58B	N1179	N25A			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
53	M59	N11	N1179			RIGID	None	None	RIGID	Typical
54	M60	N7	N1180			RIGID	None	None	RIGID	Typical
55	M64	N32	N1176			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
56	M65	N30	N27			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
57	M66	N27	N1172			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
58	M67	N25A	N24			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
59	M68A	N24	N1180			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
60	M69A	N22	N32			Plate Bracing2	Beam	RECT	A36 Gr.36	Typical
61	M67A	N1188	N1187			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
62	M68B	N1179A	N1180A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
63	M69B	N1183A	N1184			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
64	M73	N1209A	N1203A			RIGID	None	None	RIGID	Typical
65	M74	N1207A	N1201B			RIGID	None	None	RIGID	Typical
66	M75	N1206A	N1197A			RIGID	None	None	RIGID	Typical
67	M76	N1205	N867A			RIGID	None	None	RIGID	Typical
68	M77	N1210A	N1204			RIGID	None	None	RIGID	Typical
69	M78	N1208A	N1202A			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
70	MP3C	N1200	N1203B			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
71	MP2C	N1199	N1202			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
72	MP1C	N1198	N1201A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
73	M76A	N1213A	N1207B			RIGID	None	None	RIGID	Typical
74	M77A	N1211A	N1205A			RIGID	None	None	RIGID	Typical
75	M78A	N1210B	N1204A			RIGID	None	None	RIGID	Typical
76	M79	N1209B	N1197			RIGID	None	None	RIGID	Typical
77	M80	N1214A	N1208B			RIGID	None	None	RIGID	Typical
78	M81	N1212A	N1206B			RIGID	None	None	RIGID	Typical
79	MP3B	N1218A	N1221A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
80	MP2B	N1217A	N1220A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
81	MP1B	N1216A	N1219A			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
82	M85	N1231A	N1225A			RIGID	None	None	RIGID	Typical
83	M86	N1229A	N1223A			RIGID	None	None	RIGID	Typical
84	M87	N1228A	N1222A			RIGID	None	None	RIGID	Typical
85	M88	N1227A	N1215A			RIGID	None	None	RIGID	Typical
86	M89	N1232A	N1226A			RIGID	None	None	RIGID	Typical
87	M90	N1230A	N1224A			RIGID	None	None	RIGID	Typical
88	M91	N1226B	N1228B			V-brace	Beam	CU	A570 Gr.33	Typical
89	M92	N1229B	N1227B			V-brace	Beam	CU	A570 Gr.33	Typical
90	M94	N1232B	N1234B			V-brace	Beam	CU	A570 Gr.33	Typical
91	M95	N1235B	N1233B			V-brace	Beam	CU	A570 Gr.33	Typical
92	M97	N1238A	N1240A			V-brace	Beam	CU	A570 Gr.33	Typical
93	M98	N1241	N1239A			V-brace	Beam	CU	A570 Gr.33	Typical
94	M97A	N1228B	N1229B			V-brace collar	Beam	CU	A570 Gr.33	Typical
95	M98A	N1241	N1240A		180	V-brace collar	Beam	CU	A570 Gr.33	Typical
96	M99	N1235B	N1234B		180	V-brace collar	Beam	CU	A570 Gr.33	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M5						Yes				None
3	M7						Yes				None
4	M8						Yes				None
5	M9						Yes				None
6	M10						Yes				None
7	M11						Yes				None
8	M12						Yes				None
9	M13						Yes				None
10	M14						Yes				None
11	M15						Yes				None
12	M16						Yes				None
13	M34						Yes				None
14	M35						Yes				None
15	M36						Yes				None
16	MP3A						Yes				None
17	MP2A						Yes				None
18	MP1A						Yes				None
19	M44						Yes	** NA **			None
20	M45						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...
21	M46						Yes	** NA **			None
22	M47						Yes	** NA **			None
23	M48						Yes	** NA **			None
24	M49						Yes	** NA **			None
25	M50						Yes	** NA **			None
26	M51						Yes	** NA **			None
27	M52						Yes	** NA **			None
28	M53						Yes	** NA **			None
29	M54						Yes	** NA **			None
30	M55						Yes	** NA **			None
31	M56						Yes	** NA **			None
32	M57						Yes	** NA **			None
33	M58						Yes	** NA **			None
34	M46A						Yes	** NA **			None
35	M47A						Yes	** NA **			None
36	M48A						Yes	** NA **			None
37	M54B						Yes				None
38	M55B						Yes				None
39	M56B						Yes	** NA **			None
40	M57B						Yes	** NA **			None
41	M58A						Yes	** NA **			None
42	M68						Yes				None
43	M69						Yes				None
44	M70						Yes	** NA **			None
45	M71						Yes	** NA **			None
46	M72						Yes	** NA **			None
47	M55A						Yes	** NA **			None
48	M56A						Yes	** NA **			None
49	M55C						Yes				None
50	M56C						Yes	** NA **			None
51	M57A						Yes	** NA **			None
52	M58B						Yes				None
53	M59						Yes	** NA **			None
54	M60						Yes	** NA **			None
55	M64						Yes				None
56	M65						Yes				None
57	M66						Yes				None
58	M67						Yes				None
59	M68A						Yes				None
60	M69A						Yes				None
61	M67A						Yes				None
62	M68B						Yes				None
63	M69B						Yes				None
64	M73						Yes	** NA **			None
65	M74						Yes	** NA **			None
66	M75						Yes	** NA **			None
67	M76						Yes	** NA **			None
68	M77						Yes	** NA **			None
69	M78						Yes	** NA **			None
70	MP3C						Yes				None
71	MP2C						Yes				None
72	MP1C						Yes				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...
73	M76A						Yes	** NA **			None
74	M77A						Yes	** NA **			None
75	M78A						Yes	** NA **			None
76	M79						Yes	** NA **			None
77	M80						Yes	** NA **			None
78	M81						Yes	** NA **			None
79	MP3B						Yes				None
80	MP2B						Yes				None
81	MP1B						Yes				None
82	M85						Yes	** NA **			None
83	M86						Yes	** NA **			None
84	M87						Yes	** NA **			None
85	M88						Yes	** NA **			None
86	M89						Yes	** NA **			None
87	M90						Yes	** NA **			None
88	M91	BenPIN	BenPIN				Yes				None
89	M92	BenPIN	BenPIN				Yes				None
90	M94	BenPIN	BenPIN				Yes				None
91	M95	BenPIN	BenPIN				Yes				None
92	M97	BenPIN	BenPIN				Yes				None
93	M98	BenPIN	BenPIN				Yes				None
94	M97A						Yes				None
95	M98A						Yes				None
96	M99						Yes				None

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	HSS3.500x...	6.198			Lbyy			1	1		Lateral
2	M5	Plan Bracing	4.25			Lbyy			.65	.65		Lateral
3	M7	Plan Bracing	4.25			Lbyy			.65	.65		Lateral
4	M8	Plate Bracin...	.225			Lbyy			.65	.65		Lateral
5	M9	Plan Bracing	4.25			Lbyy			.65	.65		Lateral
6	M10	Grating Angle	2.916			Lbyy			.65	.65		Lateral
7	M11	Grating Angle	2.916			Lbyy			.65	.65		Lateral
8	M12	Grating Angle	2.916			Lbyy			.65	.65		Lateral
9	M13	Grating Angle	2.916			Lbyy			.65	.65		Lateral
10	M14	Grating Angle	2.916			Lbyy			.65	.65		Lateral
11	M15	Grating Angle	2.916			Lbyy			.65	.65		Lateral
12	M16	HSS3.500x...	6.198			Lbyy			1	1		Lateral
13	M34	HSS4X4X4	3.167			Lbyy			2.1	2.1		Lateral
14	M35	HSS4X4X4	3.167			Lbyy			2.1	2.1		Lateral
15	M36	HSS4X4X4	3.167			Lbyy			2.1	2.1		Lateral
16	MP3A	PIPE 2.0	6			Lbyy			2.1	2.1		Lateral
17	MP2A	PIPE 2.0	8			Lbyy			2.1	2.1		Lateral
18	MP1A	PIPE 2.0	6			Lbyy			2.1	2.1		Lateral
19	M54B	HSS3.500x...	6.198			Lbyy			1	1		Lateral
20	M55B	HSS3.500x...	6.198			Lbyy			1	1		Lateral
21	M68	HSS3.500x...	6.198			Lbyy			1	1		Lateral
22	M69	HSS3.500x...	6.198			Lbyy			1	1		Lateral
23	M55C	Plate Bracin...	.225			Lbyy			.65	.65		Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
24	M58B	Plate Bracin...	.225			Lbyy			.65	.65		Lateral
25	M64	Plate Bracin...	.225			Lbyy			.65	.65		Lateral
26	M65	Plate Bracin...	.565			Lbyy			.65	.65		Lateral
27	M66	Plate Bracin...	.225			Lbyy			.65	.65		Lateral
28	M67	Plate Bracin...	.565			Lbyy			.65	.65		Lateral
29	M68A	Plate Bracin...	.225			Lbyy			.65	.65		Lateral
30	M69A	Plate Bracin...	.565			Lbyy			.65	.65		Lateral
31	M67A	PIPE 2.0	12.5			Lbyy						Lateral
32	M68B	PIPE 2.0	12.5			Lbyy						Lateral
33	M69B	PIPE 2.0	12.5			Lbyy						Lateral
34	MP3C	PIPE 2.0	6			Lbyy			2.1	2.1		Lateral
35	MP2C	PIPE 2.0	8			Lbyy			2.1	2.1		Lateral
36	MP1C	PIPE 2.0	6			Lbyy			2.1	2.1		Lateral
37	MP3B	PIPE 2.0	6			Lbyy			2.1	2.1		Lateral
38	MP2B	PIPE 2.0	8			Lbyy			2.1	2.1		Lateral
39	MP1B	PIPE 2.0	6			Lbyy			2.1	2.1		Lateral

Cold Formed Steel Design Parameters

	Label	Shape	Length...	Lbyy[ft]	Lbzz[ft]	Lcomp t...	Lcomp ...	L-torque...	Kyy	Kzz	Cm-...	Cm-...	Cb	R	a[ft]	y sw...	z sw...
1	M91	V-brace	3.998			Lbyy											
2	M92	V-brace	3.998			Lbyy											
3	M94	V-brace	3.998			Lbyy											
4	M95	V-brace	3.998			Lbyy											
5	M97	V-brace	3.998			Lbyy											
6	M98	V-brace	3.998			Lbyy											
7	M97A	V-brace...	2			Lbyy											
8	M98A	V-brace...	2			Lbyy											
9	M99	V-brace...	2			Lbyy											

Aluminum Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
No Data to Print ...												

Joint Loads and Enforced Displacements

	Joint Label	L,D,M	Direction	Magnitude[(lb,k-ft), (in,rad), (lb*s^2...
No Data to Print ...				

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-20.35	1
2	MP1A	Y	-20.35	6
3	MP1B	Y	-20.35	1
4	MP1B	Y	-20.35	6
5	MP1C	Y	-20.35	1
6	MP1C	Y	-20.35	6
7	MP2A	Y	-49.5	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2A	Y	-49.5	6
9	MP2B	Y	-49.5	1
10	MP2B	Y	-49.5	6
11	MP2C	Y	-49.5	1
12	MP2C	Y	-49.5	6
13	MP3A	Y	-51.5	1
14	MP3A	Y	-51.5	4
15	MP3B	Y	-51.5	1
16	MP3B	Y	-51.5	4
17	MP3C	Y	-51.5	1
18	MP3C	Y	-51.5	4
19	MP2A	Y	-11	5
20	MP2B	Y	-11	5
21	MP2C	Y	-11	5
22	MP2A	Y	-73.2	2
23	MP2B	Y	-73.2	2
24	MP2C	Y	-73.2	2
25	MP2A	Y	-88	2
26	MP2B	Y	-88	2
27	MP2C	Y	-88	2
28	MP1A	Y	-46	2
29	MP1B	Y	-46	2
30	MP1C	Y	-46	2
31	MP1A	Y	-1.8	5
32	MP1B	Y	-1.8	5
33	MP1C	Y	-1.8	5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-67.796	1
2	MP1A	Y	-67.796	6
3	MP1B	Y	-67.796	1
4	MP1B	Y	-67.796	6
5	MP1C	Y	-67.796	1
6	MP1C	Y	-67.796	6
7	MP2A	Y	-211.856	1
8	MP2A	Y	-211.856	6
9	MP2B	Y	-211.856	1
10	MP2B	Y	-211.856	6
11	MP2C	Y	-211.856	1
12	MP2C	Y	-211.856	6
13	MP3A	Y	-75.701	1
14	MP3A	Y	-75.701	4
15	MP3B	Y	-75.701	1
16	MP3B	Y	-75.701	4
17	MP3C	Y	-75.701	1
18	MP3C	Y	-75.701	4
19	MP2A	Y	-16.099	5
20	MP2B	Y	-16.099	5
21	MP2C	Y	-16.099	5
22	MP2A	Y	-81.021	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP2B	Y	-81.021	2
24	MP2C	Y	-81.021	2
25	MP2A	Y	-74.015	2
26	MP2B	Y	-74.015	2
27	MP2C	Y	-74.015	2
28	MP1A	Y	-60.959	2
29	MP1B	Y	-60.959	2
30	MP1C	Y	-60.959	2
31	MP1A	Y	-9.152	5
32	MP1B	Y	-9.152	5
33	MP1C	Y	-9.152	5

Member Point Loads (BLC 3 : Antenna W Front)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Z	-101.222	1
2	MP1A	Z	-101.222	6
3	MP1B	Z	-50.837	1
4	MP1B	Z	-50.837	6
5	MP1C	Z	-50.837	1
6	MP1C	Z	-50.837	6
7	MP2A	Z	-317.142	1
8	MP2A	Z	-317.142	6
9	MP2B	Z	-181.915	1
10	MP2B	Z	-181.915	6
11	MP2C	Z	-181.915	1
12	MP2C	Z	-181.915	6
13	MP3A	Z	-88.53	1
14	MP3A	Z	-88.53	4
15	MP3B	Z	-50.52	1
16	MP3B	Z	-50.52	4
17	MP3C	Z	-50.52	1
18	MP3C	Z	-50.52	4
19	MP2A	Z	-9.636	5
20	MP2B	Z	-5.151	5
21	MP2C	Z	-5.151	5
22	MP2A	Z	-46.302	2
23	MP2B	Z	-39.448	2
24	MP2C	Z	-39.448	2
25	MP2A	Z	-38.546	2
26	MP2B	Z	-32.905	2
27	MP2C	Z	-32.905	2
28	MP1A	Z	-38.546	2
29	MP1B	Z	-24.754	2
30	MP1C	Z	-24.754	2
31	MP1A	Z	-6.581	5
32	MP1B	Z	-3.129	5
33	MP1C	Z	-3.129	5

Member Point Loads (BLC 4 : Antenna Wi Front)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Z	-34.26	1

Member Point Loads (BLC 4 : Antenna Wi Front) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP1A	Z	-34.26	6
3	MP1B	Z	-19.045	1
4	MP1B	Z	-19.045	6
5	MP1C	Z	-19.045	1
6	MP1C	Z	-19.045	6
7	MP2A	Z	-100.202	1
8	MP2A	Z	-100.202	6
9	MP2B	Z	-60.11	1
10	MP2B	Z	-60.11	6
11	MP2C	Z	-60.11	1
12	MP2C	Z	-60.11	6
13	MP3A	Z	-29.959	1
14	MP3A	Z	-29.959	4
15	MP3B	Z	-18.056	1
16	MP3B	Z	-18.056	4
17	MP3C	Z	-18.056	1
18	MP3C	Z	-18.056	4
19	MP2A	Z	-4.265	5
20	MP2B	Z	-2.977	5
21	MP2C	Z	-2.977	5
22	MP2A	Z	-17.328	2
23	MP2B	Z	-15.129	2
24	MP2C	Z	-15.129	2
25	MP2A	Z	-16.436	2
26	MP2B	Z	-13.369	2
27	MP2C	Z	-13.369	2
28	MP1A	Z	-16.331	2
29	MP1B	Z	-10.67	2
30	MP1C	Z	-10.67	2
31	MP1A	Z	-2.387	5
32	MP1B	Z	-1.94	5
33	MP1C	Z	-1.94	5

Member Point Loads (BLC 5 : Antenna W Side)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	34.043	1
2	MP1A	X	34.043	6
3	MP1B	X	84.427	1
4	MP1B	X	84.427	6
5	MP1C	X	84.427	1
6	MP1C	X	84.427	6
7	MP2A	X	136.84	1
8	MP2A	X	136.84	6
9	MP2B	X	272.066	1
10	MP2B	X	272.066	6
11	MP2C	X	272.066	1
12	MP2C	X	272.066	6
13	MP3A	X	37.85	1
14	MP3A	X	37.85	4
15	MP3B	X	75.86	1
16	MP3B	X	75.86	4

Member Point Loads (BLC 5 : Antenna W Side) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP3C	X	75.86	1
18	MP3C	X	75.86	4
19	MP2A	X	4.875	5
20	MP2B	X	10.855	5
21	MP2C	X	10.855	5
22	MP2A	X	49.551	2
23	MP2B	X	58.69	2
24	MP2C	X	58.69	2
25	MP2A	X	41.366	2
26	MP2B	X	48.888	2
27	MP2C	X	48.888	2
28	MP1A	X	26.875	2
29	MP1B	X	45.265	2
30	MP1C	X	45.265	2
31	MP1A	X	2.639	5
32	MP1B	X	7.241	5
33	MP1C	X	7.241	5

Member Point Loads (BLC 6 : Antenna Wi Side)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	13.973	1
2	MP1A	X	13.973	6
3	MP1B	X	29.188	1
4	MP1B	X	29.188	6
5	MP1C	X	29.188	1
6	MP1C	X	29.188	6
7	MP2A	X	46.746	1
8	MP2A	X	46.746	6
9	MP2B	X	86.838	1
10	MP2B	X	86.838	6
11	MP2C	X	86.838	1
12	MP2C	X	86.838	6
13	MP3A	X	14.088	1
14	MP3A	X	14.088	4
15	MP3B	X	25.991	1
16	MP3B	X	25.991	4
17	MP3C	X	25.991	1
18	MP3C	X	25.991	4
19	MP2A	X	3.397	5
20	MP2B	X	5.114	5
21	MP2C	X	5.114	5
22	MP2A	X	19.194	2
23	MP2B	X	22.126	2
24	MP2C	X	22.126	2
25	MP2A	X	16.463	2
26	MP2B	X	20.552	2
27	MP2C	X	20.552	2
28	MP1A	X	11.71	2
29	MP1B	X	19.259	2
30	MP1C	X	19.259	2
31	MP1A	X	2.388	5

Member Point Loads (BLC 6 : Antenna Wi Side) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP1B	X	2.984	5
33	MP1C	X	2.984	5

Member Point Loads (BLC 7 : Service Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%5

Member Point Loads (BLC 8 : Service Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%50

Member Distributed Loads (BLC 10 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,F...]	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-11.06	-11.06	0	%100
2	M5	Y	-10.549	-10.549	0	%100
3	M7	Y	-10.549	-10.549	0	%100
4	M8	Y	-10.381	-10.381	0	%100
5	M9	Y	-10.549	-10.549	0	%100
6	M10	Y	-7.714	-7.714	0	%100
7	M11	Y	-7.714	-7.714	0	%100
8	M12	Y	-7.714	-7.714	0	%100
9	M13	Y	-7.714	-7.714	0	%100
10	M14	Y	-7.714	-7.714	0	%100
11	M15	Y	-7.714	-7.714	0	%100
12	M16	Y	-11.06	-11.06	0	%100
13	M34	Y	-15.428	-15.428	0	%100
14	M35	Y	-15.428	-15.428	0	%100
15	M36	Y	-15.428	-15.428	0	%100
16	MP3A	Y	-8.681	-8.681	0	%100
17	MP2A	Y	-8.681	-8.681	0	%100
18	MP1A	Y	-8.681	-8.681	0	%100
19	M54B	Y	-11.06	-11.06	0	%100
20	M55B	Y	-11.06	-11.06	0	%100
21	M68	Y	-11.06	-11.06	0	%100
22	M69	Y	-11.06	-11.06	0	%100
23	M55C	Y	-10.381	-10.381	0	%100
24	M58B	Y	-10.381	-10.381	0	%100
25	M64	Y	-10.381	-10.381	0	%100
26	M65	Y	-10.381	-10.381	0	%100
27	M66	Y	-10.381	-10.381	0	%100
28	M67	Y	-10.381	-10.381	0	%100
29	M68A	Y	-10.381	-10.381	0	%100
30	M69A	Y	-10.381	-10.381	0	%100
31	M67A	Y	-8.681	-8.681	0	%100
32	M68B	Y	-8.681	-8.681	0	%100
33	M69B	Y	-8.681	-8.681	0	%100
34	MP3C	Y	-8.681	-8.681	0	%100
35	MP2C	Y	-8.681	-8.681	0	%100
36	MP1C	Y	-8.681	-8.681	0	%100

Member Distributed Loads (BLC 10 : Structure Di) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP3B	Y	-8.681	-8.681	0	%100
38	MP2B	Y	-8.681	-8.681	0	%100
39	MP1B	Y	-8.681	-8.681	0	%100
40	M91	Y	-13.246	-13.246	0	%100
41	M92	Y	-13.246	-13.246	0	%100
42	M94	Y	-13.246	-13.246	0	%100
43	M95	Y	-13.246	-13.246	0	%100
44	M97	Y	-13.246	-13.246	0	%100
45	M98	Y	-13.246	-13.246	0	%100
46	M97A	Y	-13.246	-13.246	0	%100
47	M98A	Y	-13.246	-13.246	0	%100
48	M99	Y	-13.246	-13.246	0	%100

Member Distributed Loads (BLC 11 : Structure W Front)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	PZ	-10.968	-10.968	0	%100
2	M5	PZ	-20.892	-20.892	0	%100
3	M7	PZ	-20.892	-20.892	0	%100
4	M8	PZ	-20.892	-20.892	0	%100
5	M9	PZ	-20.892	-20.892	0	%100
6	M10	PZ	-10.446	-10.446	0	%100
7	M11	PZ	-10.446	-10.446	0	%100
8	M12	PZ	-10.446	-10.446	0	%100
9	M13	PZ	-10.446	-10.446	0	%100
10	M14	PZ	-10.446	-10.446	0	%100
11	M15	PZ	-10.446	-10.446	0	%100
12	M16	PZ	-10.968	-10.968	0	%100
13	M34	PZ	-20.892	-20.892	0	%100
14	M35	PZ	-20.892	-20.892	0	%100
15	M36	PZ	-20.892	-20.892	0	%100
16	MP3A	PZ	-7.443	-7.443	0	%100
17	MP2A	PZ	-7.443	-7.443	0	%100
18	MP1A	PZ	-7.443	-7.443	0	%100
19	M54B	PZ	-10.968	-10.968	0	%100
20	M55B	PZ	-10.968	-10.968	0	%100
21	M68	PZ	-10.968	-10.968	0	%100
22	M69	PZ	-10.968	-10.968	0	%100
23	M55C	PZ	-20.892	-20.892	0	%100
24	M58B	PZ	-20.892	-20.892	0	%100
25	M64	PZ	-20.892	-20.892	0	%100
26	M65	PZ	-20.892	-20.892	0	%100
27	M66	PZ	-20.892	-20.892	0	%100
28	M67	PZ	-20.892	-20.892	0	%100
29	M68A	PZ	-20.892	-20.892	0	%100
30	M69A	PZ	-20.892	-20.892	0	%100
31	M67A	PZ	-7.443	-7.443	0	%100
32	M68B	PZ	-7.443	-7.443	0	%100
33	M69B	PZ	-7.443	-7.443	0	%100
34	MP3C	PZ	-7.443	-7.443	0	%100
35	MP2C	PZ	-7.443	-7.443	0	%100
36	MP1C	PZ	-7.443	-7.443	0	%100

Member Distributed Loads (BLC 11 : Structure W Front) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP3B	PZ	-7.443	-7.443	0	%100
38	MP2B	PZ	-7.443	-7.443	0	%100
39	MP1B	PZ	-7.443	-7.443	0	%100
40	M91	PZ	-31.338	-31.338	0	%100
41	M92	PZ	-31.338	-31.338	0	%100
42	M94	PZ	-31.338	-31.338	0	%100
43	M95	PZ	-31.338	-31.338	0	%100
44	M97	PZ	-31.338	-31.338	0	%100
45	M98	PZ	-31.338	-31.338	0	%100
46	M97A	PZ	-31.338	-31.338	0	%100
47	M98A	PZ	-31.338	-31.338	0	%100
48	M99	PZ	-31.338	-31.338	0	%100

Member Distributed Loads (BLC 12 : Structure Wi Front)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	PZ	-6.306	-6.306	0	%100
2	M5	PZ	-9.174	-9.174	0	%100
3	M7	PZ	-9.174	-9.174	0	%100
4	M8	PZ	-9.174	-9.174	0	%100
5	M9	PZ	-9.174	-9.174	0	%100
6	M10	PZ	-6.155	-6.155	0	%100
7	M11	PZ	-6.155	-6.155	0	%100
8	M12	PZ	-6.155	-6.155	0	%100
9	M13	PZ	-6.155	-6.155	0	%100
10	M14	PZ	-6.155	-6.155	0	%100
11	M15	PZ	-6.155	-6.155	0	%100
12	M16	PZ	-6.306	-6.306	0	%100
13	M34	PZ	-9.174	-9.174	0	%100
14	M35	PZ	-9.174	-9.174	0	%100
15	M36	PZ	-9.174	-9.174	0	%100
16	MP3A	PZ	-5.287	-5.287	0	%100
17	MP2A	PZ	-5.287	-5.287	0	%100
18	MP1A	PZ	-5.287	-5.287	0	%100
19	M54B	PZ	-6.306	-6.306	0	%100
20	M55B	PZ	-6.306	-6.306	0	%100
21	M68	PZ	-6.306	-6.306	0	%100
22	M69	PZ	-6.306	-6.306	0	%100
23	M55C	PZ	-9.174	-9.174	0	%100
24	M58B	PZ	-9.174	-9.174	0	%100
25	M64	PZ	-9.174	-9.174	0	%100
26	M65	PZ	-9.174	-9.174	0	%100
27	M66	PZ	-9.174	-9.174	0	%100
28	M67	PZ	-9.174	-9.174	0	%100
29	M68A	PZ	-9.174	-9.174	0	%100
30	M69A	PZ	-9.174	-9.174	0	%100
31	M67A	PZ	-5.287	-5.287	0	%100
32	M68B	PZ	-5.287	-5.287	0	%100
33	M69B	PZ	-5.287	-5.287	0	%100
34	MP3C	PZ	-5.287	-5.287	0	%100
35	MP2C	PZ	-5.287	-5.287	0	%100
36	MP1C	PZ	-5.287	-5.287	0	%100

Member Distributed Loads (BLC 12 : Structure Wi Front) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP3B	PZ	-5.287	-5.287	0	%100
38	MP2B	PZ	-5.287	-5.287	0	%100
39	MP1B	PZ	-5.287	-5.287	0	%100
40	M91	PZ	-12.194	-12.194	0	%100
41	M92	PZ	-12.194	-12.194	0	%100
42	M94	PZ	-12.194	-12.194	0	%100
43	M95	PZ	-12.194	-12.194	0	%100
44	M97	PZ	-12.194	-12.194	0	%100
45	M98	PZ	-12.194	-12.194	0	%100
46	M97A	PZ	-12.194	-12.194	0	%100
47	M98A	PZ	-12.194	-12.194	0	%100
48	M99	PZ	-12.194	-12.194	0	%100

Member Distributed Loads (BLC 13 : Structure W Side)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	PX	10.968	10.968	0	%100
2	M5	PX	20.892	20.892	0	%100
3	M7	PX	20.892	20.892	0	%100
4	M8	PX	20.892	20.892	0	%100
5	M9	PX	20.892	20.892	0	%100
6	M10	PX	10.446	10.446	0	%100
7	M11	PX	10.446	10.446	0	%100
8	M12	PX	10.446	10.446	0	%100
9	M13	PX	10.446	10.446	0	%100
10	M14	PX	10.446	10.446	0	%100
11	M15	PX	10.446	10.446	0	%100
12	M16	PX	10.968	10.968	0	%100
13	M34	PX	20.892	20.892	0	%100
14	M35	PX	20.892	20.892	0	%100
15	M36	PX	20.892	20.892	0	%100
16	MP3A	PX	7.443	7.443	0	%100
17	MP2A	PX	7.443	7.443	0	%100
18	MP1A	PX	7.443	7.443	0	%100
19	M54B	PX	10.968	10.968	0	%100
20	M55B	PX	10.968	10.968	0	%100
21	M68	PX	10.968	10.968	0	%100
22	M69	PX	10.968	10.968	0	%100
23	M55C	PX	20.892	20.892	0	%100
24	M58B	PX	20.892	20.892	0	%100
25	M64	PX	20.892	20.892	0	%100
26	M65	PX	20.892	20.892	0	%100
27	M66	PX	20.892	20.892	0	%100
28	M67	PX	20.892	20.892	0	%100
29	M68A	PX	20.892	20.892	0	%100
30	M69A	PX	20.892	20.892	0	%100
31	M67A	PX	7.443	7.443	0	%100
32	M68B	PX	7.443	7.443	0	%100
33	M69B	PX	7.443	7.443	0	%100
34	MP3C	PX	7.443	7.443	0	%100
35	MP2C	PX	7.443	7.443	0	%100
36	MP1C	PX	7.443	7.443	0	%100

Member Distributed Loads (BLC 13 : Structure W Side) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	MP3B	PX	7.443	7.443	0	%100
38	MP2B	PX	7.443	7.443	0	%100
39	MP1B	PX	7.443	7.443	0	%100
40	M91	PX	31.338	31.338	0	%100
41	M92	PX	31.338	31.338	0	%100
42	M94	PX	31.338	31.338	0	%100
43	M95	PX	31.338	31.338	0	%100
44	M97	PX	31.338	31.338	0	%100
45	M98	PX	31.338	31.338	0	%100
46	M97A	PX	31.338	31.338	0	%100
47	M98A	PX	31.338	31.338	0	%100
48	M99	PX	31.338	31.338	0	%100

Member Distributed Loads (BLC 14 : Structure Wi Side)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	PX	6.306	6.306	0	%100
2	M5	PX	9.174	9.174	0	%100
3	M7	PX	9.174	9.174	0	%100
4	M8	PX	9.174	9.174	0	%100
5	M9	PX	9.174	9.174	0	%100
6	M10	PX	6.155	6.155	0	%100
7	M11	PX	6.155	6.155	0	%100
8	M12	PX	6.155	6.155	0	%100
9	M13	PX	6.155	6.155	0	%100
10	M14	PX	6.155	6.155	0	%100
11	M15	PX	6.155	6.155	0	%100
12	M16	PX	6.306	6.306	0	%100
13	M34	PX	9.174	9.174	0	%100
14	M35	PX	9.174	9.174	0	%100
15	M36	PX	9.174	9.174	0	%100
16	MP3A	PX	5.287	5.287	0	%100
17	MP2A	PX	5.287	5.287	0	%100
18	MP1A	PX	5.287	5.287	0	%100
19	M54B	PX	6.306	6.306	0	%100
20	M55B	PX	6.306	6.306	0	%100
21	M68	PX	6.306	6.306	0	%100
22	M69	PX	6.306	6.306	0	%100
23	M55C	PX	9.174	9.174	0	%100
24	M58B	PX	9.174	9.174	0	%100
25	M64	PX	9.174	9.174	0	%100
26	M65	PX	9.174	9.174	0	%100
27	M66	PX	9.174	9.174	0	%100
28	M67	PX	9.174	9.174	0	%100
29	M68A	PX	9.174	9.174	0	%100
30	M69A	PX	9.174	9.174	0	%100
31	M67A	PX	5.287	5.287	0	%100
32	M68B	PX	5.287	5.287	0	%100
33	M69B	PX	5.287	5.287	0	%100
34	MP3C	PX	5.287	5.287	0	%100
35	MP2C	PX	5.287	5.287	0	%100
36	MP1C	PX	5.287	5.287	0	%100

Member Distributed Loads (BLC 14 : Structure Wi Side) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP3B	PX	5.287	5.287	0	%100
38	MP2B	PX	5.287	5.287	0	%100
39	MP1B	PX	5.287	5.287	0	%100
40	M91	PX	12.194	12.194	0	%100
41	M92	PX	12.194	12.194	0	%100
42	M94	PX	12.194	12.194	0	%100
43	M95	PX	12.194	12.194	0	%100
44	M97	PX	12.194	12.194	0	%100
45	M98	PX	12.194	12.194	0	%100
46	M97A	PX	12.194	12.194	0	%100
47	M98A	PX	12.194	12.194	0	%100
48	M99	PX	12.194	12.194	0	%100

Member Distributed Loads (BLC 15 : BLC 9 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M5	Y	-.673	-5.13	.425	1.558
2	M5	Y	-5.13	-5.137	1.558	2.692
3	M5	Y	-5.137	-.673	2.692	3.825
4	M10	Y	-1.884	-3.796	0	.583
5	M10	Y	-3.796	-3.434	.583	1.166
6	M10	Y	-3.434	-2.559	1.166	1.75
7	M10	Y	-2.559	-3.446	1.75	2.333
8	M15	Y	-.706	-3.153	0	.583
9	M15	Y	-3.153	-3.2	.583	1.166
10	M15	Y	-3.2	-2.495	1.166	1.75
11	M15	Y	-2.495	-3.437	1.75	2.333
12	M69A	Y	-.945	-.945	0	.565
13	M9	Y	-.673	-5.137	.425	1.558
14	M9	Y	-5.137	-5.13	1.558	2.692
15	M9	Y	-5.13	-.673	2.692	3.825
16	M13	Y	-1.884	-3.796	0	.583
17	M13	Y	-3.796	-3.434	.583	1.166
18	M13	Y	-3.434	-2.559	1.166	1.75
19	M13	Y	-2.559	-3.446	1.75	2.333
20	M14	Y	-.706	-3.153	0	.583
21	M14	Y	-3.153	-3.2	.583	1.166
22	M14	Y	-3.2	-2.495	1.166	1.75
23	M14	Y	-2.495	-3.437	1.75	2.333
24	M65	Y	-.945	-.945	0	.565
25	M7	Y	-.672	-5.132	.425	1.558
26	M7	Y	-5.132	-5.138	1.558	2.692
27	M7	Y	-5.138	-.672	2.692	3.825
28	M11	Y	-.706	-3.154	0	.583
29	M11	Y	-3.154	-3.2	.583	1.166
30	M11	Y	-3.2	-2.492	1.166	1.75
31	M11	Y	-2.492	-3.429	1.75	2.333
32	M12	Y	-1.886	-3.797	0	.583
33	M12	Y	-3.797	-3.435	.583	1.166
34	M12	Y	-3.435	-2.56	1.166	1.75
35	M12	Y	-2.56	-3.447	1.75	2.333
36	M67	Y	-.943	-.943	0	.565

Member Distributed Loads (BLC 16 : BLC 10 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M5	Y	-1.648	-12.572	.425	1.558
2	M5	Y	-12.572	-12.59	1.558	2.692
3	M5	Y	-12.59	-1.648	2.692	3.825
4	M10	Y	-4.617	-9.303	0	.583
5	M10	Y	-9.303	-8.416	.583	1.166
6	M10	Y	-8.416	-6.272	1.166	1.75
7	M10	Y	-6.272	-8.444	1.75	2.333
8	M15	Y	-1.729	-7.728	0	.583
9	M15	Y	-7.728	-7.843	.583	1.166
10	M15	Y	-7.843	-6.113	1.166	1.75
11	M15	Y	-6.113	-8.423	1.75	2.333
12	M69A	Y	-2.317	-2.317	0	.565
13	M9	Y	-1.648	-12.59	.425	1.558
14	M9	Y	-12.59	-12.572	1.558	2.692
15	M9	Y	-12.572	-1.648	2.692	3.825
16	M13	Y	-4.617	-9.303	0	.583
17	M13	Y	-9.303	-8.416	.583	1.166
18	M13	Y	-8.416	-6.272	1.166	1.75
19	M13	Y	-6.272	-8.444	1.75	2.333
20	M14	Y	-1.729	-7.728	0	.583
21	M14	Y	-7.728	-7.843	.583	1.166
22	M14	Y	-7.843	-6.113	1.166	1.75
23	M14	Y	-6.113	-8.423	1.75	2.333
24	M65	Y	-2.317	-2.317	0	.565
25	M7	Y	-1.647	-12.577	.425	1.558
26	M7	Y	-12.577	-12.592	1.558	2.692
27	M7	Y	-12.592	-1.647	2.692	3.825
28	M11	Y	-1.731	-7.729	0	.583
29	M11	Y	-7.729	-7.843	.583	1.166
30	M11	Y	-7.843	-6.107	1.166	1.75
31	M11	Y	-6.107	-8.403	1.75	2.333
32	M12	Y	-4.621	-9.306	0	.583
33	M12	Y	-9.306	-8.417	.583	1.166
34	M12	Y	-8.417	-6.273	1.166	1.75
35	M12	Y	-6.273	-8.448	1.75	2.333
36	M67	Y	-2.31	-2.31	0	.565

Member Area Loads (BLC 9 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N32	N22	N23	N33	Y	Two Way	-.005
2	N30	N27	N28	N31	Y	Two Way	-.005
3	N26	N25A	N24	N25	Y	Two Way	-.005

Member Area Loads (BLC 10 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N32	N22	N23	N33	Y	Two Way	-.013
2	N30	N27	N28	N31	Y	Two Way	-.013
3	N26	N25A	N24	N25	Y	Two Way	-.013

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N80A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N83	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N86	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N1233A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N1234A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N1235A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
7	N1228B						
8	N1229B						
9	N1231B	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
10	N1234B						
11	N1235B						
12	N1237A	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
13	N1240A						
14	N1241						

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	N80A	max	6.17	4	2653.329	8	2360.017	5	-.484	1	1.457	1	-.98	3
2		min	-3763.27	7	870.018	3	-704.925	2	-2.613	6	-1.467	2	-4.633	8
3	N83	max	3742.976	8	2665.15	7	2402.044	5	-.533	1	1.671	2	4.579	7
4		min	78.219	3	829.42	4	-902.362	2	-2.732	6	-1.674	1	.899	4
5	N86	max	2084.388	4	2676.612	5	13.53	1	5.372	5	2.644	3	.513	3
6		min	-2084.912	3	792.793	2	-4350.302	6	.907	2	-2.649	4	-.48	4
7	N1233A	max	436.757	4	395.766	2	1304.458	1	.002	6	.235	3	.069	3
8		min	-425.494	3	-213.082	1	-1429.212	2	0	1	-.244	4	-.071	4
9	N1234A	max	0	11	0	11	0	11	0	11	0	11	0	11
10		min	0	1	0	1	0	1	0	1	0	1	0	1
11	N1235A	max	0	11	0	11	0	11	0	11	0	11	0	11
12		min	0	1	0	1	0	1	0	1	0	1	0	1
13	N1231B	max	1011.985	4	332.396	3	619.833	1	.056	1	.18	1	.033	2
14		min	-1129.449	3	-148.868	4	-563.935	2	-.058	2	-.198	2	-.034	1
15	N1237A	max	1148.331	4	332.336	4	618.542	1	.056	1	.179	2	.034	1
16		min	-1041.824	3	-148.408	3	-543.459	2	-.054	2	-.179	1	-.031	2
17	Totals:	max	7201.88	4	8458.25	7	7152.936	1						
18		min	-7201.886	3	3304.336	4	-7152.939	2						

Envelope Member Section Forces

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
1	M1	1	max	0	11	0	11	0	11	0	11	0	11	0	11
2			min	0	1	0	1	0	1	0	1	0	1	0	1
3		2	max	84.268	2	145.616	10	94.753	4	.338	9	.037	4	.555	9
4			min	-218.703	1	-294.554	9	-121.193	3	-.333	7	-.018	3	-.035	4
5		3	max	64.66	9	-140.805	2	224.681	2	-.027	3	-.005	1	.585	9
6			min	-217.647	5	-594.677	5	-297.802	1	-.483	8	-.109	8	-.251	10
7		4	max	117.043	9	494.452	8	153.05	1	.03	9	.1	2	.598	9
8			min	-181.709	4	94.785	3	-73.15	2	.002	6	-.203	1	.103	3
9		5	max	117.043	9	466.377	8	128.026	5	.03	9	.032	8	.012	9
10			min	-181.709	4	83.848	3	-45.958	2	.002	6	0	3	-.152	8

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
11	M5	1	max	390.027	2	-293.234	1	25.535	1	-.007	1	.01	3	.017	1
12			min	-235.928	1	-1165.667	6	-55.835	9	-.03	6	-.005	4	-.607	9
13		2	max	41.188	4	-307.659	1	.097	4	.006	9	0	4	.736	5
14			min	-1948.751	7	-1150.935	6	-1.16	7	-.005	7	0	7	.178	2
15		3	max	-538.448	4	861.484	10	173.144	1	.006	6	-.005	11	2.037	6
16			min	-6133.542	7	-1154.665	6	-168.288	2	-.004	9	-.021	1	.713	3
17		4	max	76.93	2	1084.986	8	2.229	5	.007	8	0	2	.709	7
18			min	-1980.7	5	317.616	3	-.304	2	-.009	9	0	5	.203	4
19		5	max	511.874	1	1101.541	8	74.52	9	.032	8	.014	1	-.034	3
20			min	-355.022	2	313.905	3	-35.083	2	.006	3	-.008	2	-.541	8
21	M7	1	max	612.938	1	-310.088	4	50.552	2	-.008	4	.016	1	-.018	4
22			min	-458.823	2	-1159.137	7	-79.457	1	-.03	7	-.011	2	-.576	7
23		2	max	122.371	3	-324.313	4	.113	2	-.002	2	0	2	.731	8
24			min	-1979.653	8	-1145.119	7	-1.168	5	-.005	5	0	5	.192	3
25		3	max	-367.145	3	496.993	2	177.109	2	.006	7	-.005	11	2.035	7
26			min	-6141.708	8	-1149.503	7	-194.526	1	-.003	2	-.023	1	.712	4
27		4	max	-79.047	3	1088.002	6	2.236	8	.008	7	0	3	.711	5
28			min	-1945.375	8	312.463	1	-.335	3	.001	4	0	6	.196	2
29		5	max	411.066	4	1104.682	6	78.414	2	.032	7	.014	2	-.02	1
30			min	-254.381	3	310.282	1	-44.364	1	.005	4	-.008	1	-.547	6
31	M8	1	max	143.728	1	136.024	4	165.402	7	.005	3	.008	4	.385	6
32			min	-235.17	2	-136.48	3	-50.719	4	-.006	4	-.02	3	-.079	1
33		2	max	143.728	1	135.795	4	165.402	7	.005	3	.005	4	.384	6
34			min	-235.17	2	-136.709	3	-50.719	4	-.006	4	-.011	3	-.078	1
35		3	max	143.728	1	135.566	4	165.402	7	.005	3	.002	4	.382	6
36			min	-235.17	2	-136.939	3	-50.719	4	-.006	4	-.003	3	-.077	1
37		4	max	143.728	1	135.336	4	165.402	7	.005	3	.008	7	.381	6
38			min	-235.17	2	-137.168	3	-50.719	4	-.006	4	0	4	-.077	1
39		5	max	143.728	1	135.107	4	165.402	7	.005	3	.017	7	.379	6
40			min	-235.17	2	-137.398	3	-50.719	4	-.006	4	-.003	4	-.076	1
41	M9	1	max	641.762	4	-259.528	3	55.268	3	-.007	3	.015	4	.058	3
42			min	-486.177	3	-1174.785	8	-83.54	4	-.03	8	-.01	3	-.6	8
43		2	max	169.602	1	-276.136	3	-.129	3	-.001	3	0	3	.738	7
44			min	-1989.937	6	-1159.613	8	-1.108	8	-.005	8	0	8	.179	4
45		3	max	106.012	1	1103.676	7	229.779	3	.006	5	-.002	1	2.045	8
46			min	-6148.421	6	-1162.839	8	-236.947	4	-.004	3	-.027	4	.689	2
47		4	max	-4.141	4	1089.417	7	2.098	7	.008	7	0	4	.707	8
48			min	-1966.614	6	298.684	4	.214	4	0	4	0	3	.203	3
49		5	max	437.241	3	1107.475	7	96.666	3	.032	5	.018	3	-.007	4
50			min	-281.338	4	295.22	4	-61.641	4	.005	2	-.012	4	-.547	7
51	M10	1	max	168.04	7	23.158	6	9.806	7	0	9	.007	2	.023	1
52			min	-53.866	4	3.958	1	-14.388	9	-.001	7	-.017	5	-.014	2
53		2	max	168.04	7	22.675	5	-.288	3	0	9	.011	2	.016	1
54			min	-53.866	4	.07	2	-19.181	9	-.001	7	-.013	1	-.017	2
55		3	max	168.04	7	28.327	1	-5.436	3	0	9	.005	2	0	1
56			min	-53.866	4	-12.114	2	-24.994	8	-.001	7	-.01	9	-.033	9
57		4	max	168.04	7	40.511	1	-10.075	3	0	9	.005	1	-.012	2
58			min	-53.866	4	-24.299	2	-40.342	8	-.001	7	-.013	9	-.057	9
59		5	max	168.04	7	52.695	1	-12.808	3	0	9	.02	1	-.003	2
60			min	-53.866	4	-36.483	2	-49.89	8	-.001	7	-.031	2	-.089	5
61	M11	1	max	178.501	8	9.19	6	20.976	6	.001	6	.01	2	.018	2
62			min	-65.555	3	-1.511	1	1.168	3	0	1	-.018	1	-.024	1

Envelope Member Section Forces (Continued)

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
63		2 max	178.501	8	-.798	2	21.13	5	.001	6	.012	2	.019	2
64		min	-65.555	3	-5.828	5	-2.395	2	0	1	-.014	1	-.017	1
65		3 max	178.501	8	-5.676	2	29.243	1	.001	6	.006	2	.021	6
66		min	-65.555	3	-21.901	5	-14.58	2	0	1	-.006	1	0	1
67		4 max	178.501	8	-10.252	2	41.428	1	.001	6	.005	1	.043	8
68		min	-65.555	3	-37.056	5	-26.764	2	0	1	-.009	2	.01	3
69		5 max	178.501	8	-12.98	2	53.612	1	.001	6	.021	1	.082	5
70		min	-65.555	3	-46.592	5	-38.948	2	0	1	-.032	2	0	2
71	M12	1 max	159.911	8	23.752	7	10.289	5	0	2	.004	1	.022	2
72		min	-28.934	3	.748	4	-4.05	2	-.001	5	-.017	6	-.015	1
73		2 max	161.854	8	23.842	6	1.332	1	0	2	.006	1	.011	2
74		min	-34.21	3	-1.398	1	-8.844	2	-.001	5	-.009	2	-.013	1
75		3 max	163.797	8	24.963	6	-3.817	1	0	2	.004	1	0	4
76		min	-39.486	3	-4.445	1	-25.489	6	-.001	5	-.005	2	-.023	7
77		4 max	165.74	8	28.162	4	-8.456	1	0	2	.006	4	-.012	1
78		min	-44.762	3	-12.14	3	-40.838	6	-.001	5	-.01	3	-.049	6
79		5 max	167.683	8	37.301	4	-11.189	1	0	2	.017	4	-.012	1
80		min	-50.038	3	-21.278	3	-50.387	6	-.001	5	-.028	3	-.086	6
81	M13	1 max	174.539	6	12.206	7	19.428	7	.001	5	.008	3	.018	3
82		min	-52.677	1	-1.927	4	2.798	1	0	2	-.017	4	-.024	4
83		2 max	176.482	6	.562	3	21.533	8	.001	5	.011	3	.018	3
84		min	-57.952	1	-6.72	4	-2.097	3	0	2	-.013	4	-.016	4
85		3 max	178.425	6	-4.587	3	25.703	4	.001	5	.007	3	.02	7
86		min	-63.228	1	-22.72	8	-11.235	3	0	2	-.006	4	0	4
87		4 max	180.562	2	-9.226	3	34.841	4	.001	5	.006	2	.043	6
88		min	-68.504	1	-38.068	8	-20.373	3	0	2	-.01	1	.011	1
89		5 max	185.838	2	-11.959	3	43.979	4	.001	5	.013	4	.081	8
90		min	-73.78	1	-47.616	8	-29.512	3	0	2	-.024	3	.004	3
91	M14	1 max	165.875	6	21.373	5	7.748	8	0	4	.01	4	.028	3
92		min	-48.647	1	3.892	4	-5.602	3	-.001	7	-.019	3	-.02	4
93		2 max	167.818	6	24.389	7	1.771	4	0	4	.011	4	.016	3
94		min	-53.923	1	-5.246	4	-9.655	3	-.001	7	-.014	3	-.018	4
95		3 max	169.761	6	30.477	3	-3.107	4	0	4	.006	4	-.004	3
96		min	-59.199	1	-14.384	4	-25.148	7	-.001	7	-.007	3	-.023	8
97		4 max	171.704	6	39.615	3	-7.685	4	0	4	.006	2	-.006	4
98		min	-64.475	1	-23.522	4	-40.312	7	-.001	7	-.01	1	-.05	7
99		5 max	176.607	2	48.753	3	-10.415	4	0	4	.015	3	.004	4
100		min	-69.751	1	-32.661	4	-49.852	7	-.001	7	-.026	4	-.091	7
101	M15	1 max	165.501	7	9.261	5	20.702	8	.001	8	.006	4	.01	4
102		min	-23.179	4	-12.976	9	4.95	3	0	3	-.014	7	-.015	3
103		2 max	167.444	7	-.835	1	20.4	6	.001	8	.008	4	.02	9
104		min	-28.455	4	-17.029	9	.413	4	0	3	-.01	3	-.01	3
105		3 max	169.387	7	-5.713	1	23.639	7	.001	8	.004	1	.038	9
106		min	-33.731	4	-21.959	6	-8.726	4	0	3	-.01	9	.002	2
107		4 max	171.33	7	-10.292	1	32.365	3	.001	8	.006	3	.058	9
108		min	-39.007	4	-37.123	6	-17.864	4	0	3	-.015	9	.012	4
109		5 max	173.273	7	-13.022	1	41.503	3	.001	8	.018	3	.08	9
110		min	-44.283	4	-46.663	6	-27.002	4	0	3	-.028	4	.008	4
111	M16	1 max	473.344	4	487.148	8	741.255	1	.01	10	.024	5	-.024	9
112		min	-571.42	3	59.244	3	-785.515	2	-.012	2	.005	3	-.192	8
113		2 max	58.871	1	-96.169	4	110.551	2	.144	2	.124	2	.46	6
114		min	-129.942	2	-542.928	7	-189.374	1	-.175	1	-.218	1	.123	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
115		3	max	55.628	2	610.385	5	353.822	1	.461	7	.013	1	.435	7
116			min	-191.703	5	122.592	2	-284.915	2	0	4	-.102	7	.011	4
117		4	max	89.03	3	114.028	2	127.913	4	.323	8	.029	3	.21	8
118			min	-223.041	4	-78.315	1	-95.976	3	-.046	3	-.013	4	-.02	3
119		5	max	0	11	0	11	0	11	0	11	0	11	0	11
120			min	0	1	0	1	0	1	0	1	0	1	0	1
121	M34	1	max	4294.509	7	2663.555	8	1265.664	2	.404	10	1.457	1	5.291	8
122			min	183.821	4	871.488	3	-1262.281	1	-.325	1	-1.467	2	1.179	3
123		2	max	4291.364	7	2639.622	8	1245.814	2	.404	10	.466	1	3.192	8
124			min	195.281	4	859.77	3	-1242.431	1	-.325	1	-.472	2	.494	3
125		3	max	4288.219	7	2615.689	8	1225.964	2	.404	10	.506	2	1.112	8
126			min	206.741	4	848.052	3	-1222.582	1	-.325	1	-.51	1	-.182	3
127		4	max	718.163	7	2208.508	8	1426.867	1	.545	1	.175	2	.045	4
128			min	165.784	4	704.642	3	-1419.582	2	-.573	2	-.174	1	-.037	3
129		5	max	0	11	.004	5	0	11	0	11	0	11	0	11
130			min	0	1	-.01	4	-.001	4	0	1	0	1	0	1
131	M35	1	max	4293.048	8	2675.439	7	1420.449	1	.322	1	1.671	2	5.32	7
132			min	184.524	3	830.726	4	-1423.163	2	-.358	2	-1.674	1	1.079	4
133		2	max	4289.903	8	2651.506	7	1400.599	1	.322	1	.552	2	3.211	7
134			min	195.984	3	819.008	4	-1403.314	2	-.358	2	-.557	1	.425	4
135		3	max	4286.757	8	2627.573	7	1380.75	1	.322	1	.544	1	1.121	7
136			min	207.444	3	807.291	4	-1383.464	2	-.358	2	-.551	2	-.218	4
137		4	max	717.195	8	2218.308	7	1577.112	2	.615	2	.193	1	.047	3
138			min	169.466	3	670.116	4	-1561.866	1	-.644	1	-.193	2	-.04	4
139		5	max	0	11	.004	5	.001	4	0	11	0	11	0	11
140			min	0	1	-.011	3	0	9	0	1	0	1	0	1
141	M36	1	max	4350.302	6	2686.845	5	2086.193	4	.48	4	2.644	3	5.372	5
142			min	-13.53	1	793.857	2	-2086.474	3	-.513	3	-2.649	4	.907	2
143		2	max	4350.302	6	2662.912	5	2059.727	4	.48	4	1.002	3	3.254	5
144			min	-13.53	1	782.14	2	-2060.008	3	-.513	3	-1.008	4	.284	2
145		3	max	4350.302	6	2638.978	5	2033.261	4	.48	4	.612	4	1.155	5
146			min	-13.53	1	770.422	2	-2033.542	3	-.513	3	-.618	3	-.331	2
147		4	max	717.505	6	2228.182	5	2038.176	3	.825	3	.25	4	.055	1
148			min	167.526	1	639.264	2	-2025.944	4	-.853	4	-.25	3	-.047	2
149		5	max	0	11	0	11	0	11	0	11	0	11	0	11
150			min	0	1	0	1	0	1	0	1	0	1	0	1
151	MP3A	1	max	0	11	.002	4	.015	8	0	11	0	11	0	11
152			min	0	1	-.004	7	-.004	3	0	1	0	1	0	1
153		2	max	340.919	5	100.07	4	138.7	9	.277	2	.07	7	.147	4
154			min	-47.819	9	-156.835	9	-72.7	3	-.235	1	-.004	4	-.106	3
155		3	max	360.188	5	117.933	4	140.486	9	.277	2	.251	9	.136	9
156			min	-41.572	9	-156.835	9	-72.7	3	-.235	1	-.059	3	-.016	4
157		4	max	516.959	5	196.355	4	159.058	1	.277	2	.47	9	.371	9
158			min	26.476	9	-190.109	3	-109.176	2	-.235	1	-.168	3	-.237	4
159		5	max	0	11	.002	3	.02	6	0	11	0	11	0	11
160			min	0	1	-.012	9	0	1	0	1	0	1	0	1
161	MP2A	1	max	0	11	.002	9	.01	5	0	11	0	11	0	11
162			min	0	1	-.002	7	-.004	2	0	1	0	1	0	1
163		2	max	243.274	9	41.103	4	174.009	1	.106	4	.256	2	.213	4
164			min	-7.572	1	-67.761	3	-140.169	2	-.109	3	-.172	1	-.194	3
165		3	max	613.07	6	210.162	4	333.373	1	.106	4	.471	1	.256	3
166			min	193.898	1	-236.819	3	-299.532	2	-.109	3	-.319	2	-.184	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
167		4	max	-67.641	10	242.396	3	530.51	2	0	11	.024	1	.024	3
168			min	-296.543	5	-242.451	4	-530.379	1	0	1	-.024	2	-.024	4
169		5	max	0	11	-.017	4	.791	5	0	11	0	11	0	11
170			min	0	1	-.31	7	.023	2	0	1	0	1	0	1
171	MP1A	1	max	0	11	.006	8	.013	7	0	11	0	11	0	11
172			min	0	1	-.002	3	-.004	4	0	1	0	1	0	1
173		2	max	295.596	5	72.27	4	118.414	3	.232	1	.079	8	.109	4
174			min	-102.85	2	-63.025	3	-79.879	4	-.265	2	-.002	3	-.137	3
175		3	max	431.025	5	133.133	4	118.414	3	.232	1	.189	7	.014	3
176			min	-41.402	2	-123.888	3	-79.879	4	-.265	2	-.067	4	-.064	8
177		4	max	450.295	5	150.996	4	118.414	3	.232	1	.353	3	.213	3
178			min	-35.155	2	-141.751	3	-79.879	4	-.265	2	-.186	4	-.269	4
179		5	max	-24.42	10	54.512	3	161.984	2	0	11	0	11	0	11
180			min	-92.216	5	-54.489	4	-161.915	1	0	1	0	1	0	1
181	M44	1	max	272.495	5	3624.851	4	862.641	1	0	4	.022	5	.002	4
182			min	81.412	2	-3636.8	3	-1613.932	2	0	3	.006	2	-.002	3
183		2	max	272.495	5	3624.851	4	862.641	1	0	4	.082	1	.301	3
184			min	81.412	2	-3636.8	3	-1613.932	2	0	3	-.128	2	-.3	4
185		3	max	272.495	5	3624.851	4	862.641	1	0	4	.154	1	.604	3
186			min	81.412	2	-3636.8	3	-1613.932	2	0	3	-.262	2	-.602	4
187		4	max	272.495	5	3624.851	4	862.641	1	0	4	.225	1	.907	3
188			min	81.412	2	-3636.8	3	-1613.932	2	0	3	-.397	2	-.904	4
189		5	max	272.495	5	3624.851	4	862.641	1	0	4	.297	1	1.209	3
190			min	81.412	2	-3636.8	3	-1613.932	2	0	3	-.531	2	-1.206	4
191	M45	1	max	38.319	5	756.12	4	-117.166	1	0	4	.04	5	.003	4
192			min	13.949	2	-757.786	3	-718.246	6	0	3	.012	2	-.003	3
193		2	max	38.319	5	756.12	4	-117.166	1	0	4	.008	1	.06	3
194			min	13.949	2	-757.786	3	-718.246	6	0	3	-.022	2	-.06	4
195		3	max	38.319	5	756.12	4	-117.166	1	0	4	-.001	1	.123	3
196			min	13.949	2	-757.786	3	-718.246	6	0	3	-.081	6	-.123	4
197		4	max	38.319	5	756.12	4	-117.166	1	0	4	-.011	1	.186	3
198			min	13.949	2	-757.786	3	-718.246	6	0	3	-.141	6	-.186	4
199		5	max	38.319	5	756.12	4	-117.166	1	0	4	-.021	1	.249	3
200			min	13.949	2	-757.786	3	-718.246	6	0	3	-.201	6	-.249	4
201	M46	1	max	-1.992	2	94.332	3	-260.053	1	0	4	.039	5	.002	4
202			min	-9.544	5	-93.564	4	-814.063	6	0	3	.011	2	-.002	3
203		2	max	-1.992	2	94.332	3	-260.053	1	0	4	-.004	1	.01	4
204			min	-9.544	5	-93.564	4	-814.063	6	0	3	-.031	6	-.01	3
205		3	max	-1.992	2	94.332	3	-260.053	1	0	4	-.026	1	.018	4
206			min	-9.544	5	-93.564	4	-814.063	6	0	3	-.098	6	-.018	3
207		4	max	-1.992	2	94.332	3	-260.053	1	0	4	-.047	1	.025	4
208			min	-9.544	5	-93.564	4	-814.063	6	0	3	-.166	6	-.026	3
209		5	max	-1.992	2	94.332	3	-260.053	1	0	4	-.069	1	.033	4
210			min	-9.544	5	-93.564	4	-814.063	6	0	3	-.234	6	-.033	3
211	M47	1	max	78.342	5	256.276	3	-278.104	3	0	4	.037	5	.002	4
212			min	25.095	2	-256.174	4	-796.218	8	0	3	.011	2	-.002	3
213		2	max	78.342	5	256.276	3	-278.104	3	0	4	-.008	1	.023	4
214			min	25.095	2	-256.174	4	-796.218	8	0	3	-.03	6	-.023	3
215		3	max	78.342	5	256.276	3	-278.104	3	0	4	-.033	3	.045	4
216			min	25.095	2	-256.174	4	-796.218	8	0	3	-.096	8	-.045	3
217		4	max	78.342	5	256.276	3	-278.104	3	0	4	-.056	3	.066	4
218			min	25.095	2	-256.174	4	-796.218	8	0	3	-.162	8	-.066	3

Envelope Member Section Forces (Continued)

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
219		5 max	78.342	5	256.276	3	-278.104	3	0	4	-.079	3	.087	4
220		min	25.095	2	-256.174	4	-796.218	8	0	3	-.228	8	-.087	3
221	M48	1 max	2201.26	5	2064.42	3	-164.736	1	.047	4	.007	8	.17	4
222		min	627.456	2	-2052.232	4	-709.881	6	-.046	3	0	3	-.137	3
223		2 max	2201.26	5	2064.42	3	-164.736	1	.047	4	-.012	1	.341	4
224		min	627.456	2	-2052.232	4	-709.881	6	-.046	3	-.052	6	-.309	3
225		3 max	2201.26	5	2064.42	3	-164.736	1	.047	4	-.025	1	.512	4
226		min	627.456	2	-2052.232	4	-709.881	6	-.046	3	-.111	6	-.481	3
227		4 max	2201.26	5	2064.42	3	-164.736	1	.047	4	-.039	1	.683	4
228		min	627.456	2	-2052.232	4	-709.881	6	-.046	3	-.17	6	-.653	3
229		5 max	2201.26	5	2064.42	3	-164.736	1	.047	4	-.053	1	.853	4
230		min	627.456	2	-2052.232	4	-709.881	6	-.046	3	-.229	6	-.825	3
231	M49	1 max	269.96	8	1051.611	4	2572.96	1	0	2	-.003	3	-.006	1
232		min	89.709	3	-1691.939	3	-2197.54	2	0	1	-.011	8	-.019	6
233		2 max	269.96	8	1051.611	4	2572.96	1	0	2	.21	1	.135	3
234		min	89.709	3	-1691.939	3	-2197.54	2	0	1	-.187	2	-.095	4
235		3 max	269.96	8	1051.611	4	2572.96	1	0	2	.424	1	.275	3
236		min	89.709	3	-1691.939	3	-2197.54	2	0	1	-.37	2	-.183	4
237		4 max	269.96	8	1051.611	4	2572.96	1	0	2	.638	1	.416	3
238		min	89.709	3	-1691.939	3	-2197.54	2	0	1	-.552	2	-.27	4
239		5 max	269.96	8	1051.611	4	2572.96	1	0	2	.852	1	.557	3
240		min	89.709	3	-1691.939	3	-2197.54	2	0	1	-.735	2	-.358	4
241	M50	1 max	37.88	8	-30.74	1	564.003	1	0	2	-.006	3	-.011	1
242		min	8.595	9	-635.772	7	-304.976	2	0	1	-.02	8	-.035	6
243		2 max	37.88	8	-30.74	1	564.003	1	0	2	.038	1	.022	3
244		min	8.595	9	-635.772	7	-304.976	2	0	1	-.032	2	-.011	4
245		3 max	37.88	8	-30.74	1	564.003	1	0	2	.085	1	.072	7
246		min	8.595	9	-635.772	7	-304.976	2	0	1	-.057	2	-.007	4
247		4 max	37.88	8	-30.74	1	564.003	1	0	2	.132	1	.125	7
248		min	8.595	9	-635.772	7	-304.976	2	0	1	-.083	2	-.004	4
249		5 max	37.88	8	-30.74	1	564.003	1	0	2	.179	1	.178	7
250		min	8.595	9	-635.772	7	-304.976	2	0	1	-.108	2	0	1
251	M51	1 max	-2.285	3	-214.159	2	419.477	7	0	4	-.006	3	-.011	1
252		min	-9.954	9	-708.741	5	79.468	4	0	3	-.019	8	-.033	6
253		2 max	-2.285	3	-214.159	2	419.477	7	0	4	.016	7	.026	5
254		min	-9.954	9	-708.741	5	79.468	4	0	3	-.002	4	.004	2
255		3 max	-2.285	3	-214.159	2	419.477	7	0	4	.051	7	.085	5
256		min	-9.954	9	-708.741	5	79.468	4	0	3	.005	4	.022	2
257		4 max	-2.285	3	-214.159	2	419.477	7	0	4	.086	7	.144	5
258		min	-9.954	9	-708.741	5	79.468	4	0	3	.011	4	.039	2
259		5 max	-2.285	3	-214.159	2	419.477	7	0	4	.121	7	.203	5
260		min	-9.954	9	-708.741	5	79.468	4	0	3	.018	4	.057	2
261	M52	1 max	77.56	8	-177.6	2	438.336	6	0	4	-.006	3	-.01	3
262		min	27.628	3	-706.377	5	-14.117	1	0	3	-.019	8	-.032	6
263		2 max	77.56	8	-177.6	2	438.336	6	0	4	.02	2	.028	5
264		min	27.628	3	-706.377	5	-14.117	1	0	3	-.008	1	.001	2
265		3 max	77.56	8	-177.6	2	438.336	6	0	4	.055	6	.086	5
266		min	27.628	3	-706.377	5	-14.117	1	0	3	-.01	1	.016	2
267		4 max	77.56	8	-177.6	2	438.336	6	0	4	.091	6	.145	5
268		min	27.628	3	-706.377	5	-14.117	1	0	3	-.011	1	.031	2
269		5 max	77.56	8	-177.6	2	438.336	6	0	4	.128	6	.204	5
270		min	27.628	3	-706.377	5	-14.117	1	0	3	-.012	1	.046	2

Envelope Member Section Forces (Continued)

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC	
271	M53	1	max	2181.656	8	536.376	2	1352.245	2	.033	2	.08	2	.218	10
272			min	692.723	3	-990.139	1	-1098.666	1	-.032	1	-.396	10	-.053	6
273		2	max	2181.656	8	536.376	2	1352.245	2	.033	2	.192	2	.25	10
274			min	692.723	3	-990.139	1	-1098.666	1	-.032	1	-.382	10	-.093	2
275		3	max	2181.656	8	536.376	2	1352.245	2	.033	2	.305	2	.282	10
276			min	692.723	3	-990.139	1	-1098.666	1	-.032	1	-.368	10	-.138	2
277		4	max	2181.656	8	536.376	2	1352.245	2	.033	2	.418	2	.314	10
278			min	692.723	3	-990.139	1	-1098.666	1	-.032	1	-.354	10	-.183	2
279		5	max	2181.656	8	536.376	2	1352.245	2	.033	2	.53	2	.361	1
280			min	692.723	3	-990.139	1	-1098.666	1	-.032	1	-.421	1	-.227	2
281	M54	1	max	271.328	7	1564.351	4	2802.098	1	0	1	-.003	2	.019	7
282			min	85.235	4	-914.352	3	-2445.469	2	0	2	-.011	5	.006	4
283		2	max	271.328	7	1564.351	4	2802.098	1	0	1	.228	1	.084	3
284			min	85.235	4	-914.352	3	-2445.469	2	0	2	-.207	2	-.124	4
285		3	max	271.328	7	1564.351	4	2802.098	1	0	1	.462	1	.161	3
286			min	85.235	4	-914.352	3	-2445.469	2	0	2	-.41	2	-.255	4
287		4	max	271.328	7	1564.351	4	2802.098	1	0	1	.695	1	.237	3
288			min	85.235	4	-914.352	3	-2445.469	2	0	2	-.614	2	-.385	4
289		5	max	271.328	7	1564.351	4	2802.098	1	0	1	.928	1	.313	3
290			min	85.235	4	-914.352	3	-2445.469	2	0	2	-.818	2	-.515	4
291	M55	1	max	38.124	7	637.218	6	631.921	1	0	1	-.006	2	.035	7
292			min	14.802	4	28.228	1	-375.187	2	0	2	-.02	5	.011	4
293		2	max	38.124	7	637.218	6	631.921	1	0	1	.043	1	.009	1
294			min	14.802	4	28.228	1	-375.187	2	0	2	-.037	2	-.021	2
295		3	max	38.124	7	637.218	6	631.921	1	0	1	.096	1	.007	1
296			min	14.802	4	28.228	1	-375.187	2	0	2	-.068	2	-.072	6
297		4	max	38.124	7	637.218	6	631.921	1	0	1	.149	1	.004	1
298			min	14.802	4	28.228	1	-375.187	2	0	2	-.099	2	-.125	6
299		5	max	38.124	7	637.218	6	631.921	1	0	1	.201	1	.002	1
300			min	14.802	4	28.228	1	-375.187	2	0	2	-.131	2	-.178	6
301	M56	1	max	-2.114	4	715.416	5	418.471	8	0	1	-.006	4	.034	7
302			min	-9.483	7	184.591	2	90.878	3	0	2	-.019	7	.01	4
303		2	max	-2.114	4	715.416	5	418.471	8	0	1	.016	8	-.002	2
304			min	-9.483	7	184.591	2	90.878	3	0	2	0	3	-.027	5
305		3	max	-2.114	4	715.416	5	418.471	8	0	1	.051	8	-.017	2
306			min	-9.483	7	184.591	2	90.878	3	0	2	.007	3	-.086	5
307		4	max	-2.114	4	715.416	5	418.471	8	0	1	.086	8	-.033	2
308			min	-9.483	7	184.591	2	90.878	3	0	2	.014	3	-.146	5
309		5	max	-2.114	4	715.416	5	418.471	8	0	1	.121	8	-.048	2
310			min	-9.483	7	184.591	2	90.878	3	0	2	.022	3	-.205	5
311	M57	1	max	78.014	7	715.736	5	437.57	6	0	4	-.006	4	.032	7
312			min	26.393	4	143.291	2	-15.426	1	0	3	-.019	7	.01	4
313		2	max	78.014	7	715.736	5	437.57	6	0	4	.02	2	.001	2
314			min	26.393	4	143.291	2	-15.426	1	0	3	-.009	1	-.028	5
315		3	max	78.014	7	715.736	5	437.57	6	0	4	.055	6	-.011	2
316			min	26.393	4	143.291	2	-15.426	1	0	3	-.01	1	-.088	5
317		4	max	78.014	7	715.736	5	437.57	6	0	4	.091	6	-.023	2
318			min	26.393	4	143.291	2	-15.426	1	0	3	-.012	1	-.147	5
319		5	max	78.014	7	715.736	5	437.57	6	0	4	.128	6	-.035	2
320			min	26.393	4	143.291	2	-15.426	1	0	3	-.013	1	-.207	5
321	M58	1	max	2191.429	7	1066.773	1	1483.47	2	.037	1	.071	2	.042	2
322			min	658.234	4	-624.03	2	-1210.375	1	-.035	2	-.166	10	-.095	10

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
323		2	max	2191.429	7	1066.773	1	1483.47	2	.037	1	.195	2	.094	2
324			min	658.234	4	-624.03	2	-1210.375	1	-.035	2	-.203	1	-.146	1
325		3	max	2191.429	7	1066.773	1	1483.47	2	.037	1	.318	2	.146	2
326			min	658.234	4	-624.03	2	-1210.375	1	-.035	2	-.304	1	-.235	1
327		4	max	2191.429	7	1066.773	1	1483.47	2	.037	1	.442	2	.198	2
328			min	658.234	4	-624.03	2	-1210.375	1	-.035	2	-.405	1	-.324	1
329		5	max	2191.429	7	1066.773	1	1483.47	2	.037	1	.565	2	.25	2
330			min	658.234	4	-624.03	2	-1210.375	1	-.035	2	-.506	1	-.412	1
331	M46A	1	max	166.613	4	270.373	8	141.77	1	0	11	.211	5	.016	1
332			min	-315.511	3	43.553	3	-371.052	6	0	1	-.021	2	-.027	2
333		2	max	166.613	4	270.373	8	141.77	1	0	11	.205	5	.014	1
334			min	-315.511	3	43.553	3	-371.052	6	0	1	-.03	2	-.03	2
335		3	max	166.613	4	270.373	8	141.77	1	0	11	.198	5	.013	1
336			min	-315.511	3	43.553	3	-371.052	6	0	1	-.039	2	-.033	2
337		4	max	166.613	4	270.373	8	141.77	1	0	11	.192	5	.011	1
338			min	-315.511	3	43.553	3	-371.052	6	0	1	-.048	2	-.038	6
339		5	max	166.613	4	270.373	8	141.77	1	0	11	.185	5	.01	1
340			min	-315.511	3	43.553	3	-371.052	6	0	1	-.057	2	-.045	6
341	M47A	1	max	571.701	1	368.999	8	188.554	5	0	11	.03	1	.057	7
342			min	-893.186	2	46.834	3	-51.076	2	0	1	-.046	2	.012	4
343		2	max	571.701	1	368.999	8	188.554	5	0	11	.034	1	.048	7
344			min	-893.186	2	46.834	3	-51.076	2	0	1	-.047	2	.007	4
345		3	max	571.701	1	368.999	8	188.554	5	0	11	.039	1	.04	7
346			min	-893.186	2	46.834	3	-51.076	2	0	1	-.049	2	.002	4
347		4	max	571.701	1	368.999	8	188.554	5	0	11	.043	1	.031	7
348			min	-893.186	2	46.834	3	-51.076	2	0	1	-.05	2	-.002	4
349		5	max	571.701	1	368.999	8	188.554	5	0	11	.047	1	.023	3
350			min	-893.186	2	46.834	3	-51.076	2	0	1	-.051	2	-.007	4
351	M48A	1	max	506.037	2	-19.883	3	190.943	5	0	11	.046	1	.12	5
352			min	-1885.235	5	-163.45	8	-15.069	2	0	1	-.018	2	-.023	2
353		2	max	506.037	2	-19.883	3	190.943	5	0	11	.049	1	.124	5
354			min	-1885.235	5	-163.45	8	-15.069	2	0	1	-.018	2	-.022	2
355		3	max	506.037	2	-19.883	3	190.943	5	0	11	.053	5	.128	5
356			min	-1885.235	5	-163.45	8	-15.069	2	0	1	-.018	2	-.02	2
357		4	max	506.037	2	-19.883	3	190.943	5	0	11	.058	5	.132	5
358			min	-1885.235	5	-163.45	8	-15.069	2	0	1	-.019	2	-.018	2
359		5	max	506.037	2	-19.883	3	190.943	5	0	11	.063	5	.136	5
360			min	-1885.235	5	-163.45	8	-15.069	2	0	1	-.019	2	-.016	2
361	M54B	1	max	0	11	.009	3	0	2	0	11	0	11	0	11
362			min	0	1	-.003	5	0	8	0	1	0	1	0	1
363		2	max	72.835	3	88.188	2	128.82	3	.048	2	.05	3	.229	5
364			min	-210.353	8	-109.593	1	-155.056	4	-.331	5	-.031	4	-.052	2
365		3	max	184.855	1	-171.004	3	161.025	3	-.013	1	.025	4	.564	7
366			min	-323.744	2	-587.108	8	-234.635	4	-.488	6	-.118	7	-.135	4
367		4	max	221.329	4	502.924	7	124.759	8	.01	4	.042	3	.605	7
368			min	-310.396	3	60.09	4	-30.223	3	-.002	3	-.159	8	.052	4
369		5	max	233.104	4	474.731	7	121.601	6	.01	4	.032	6	-.03	1
370			min	-322.171	3	49.163	4	-15.603	1	-.002	3	-.002	1	-.154	6
371	M55B	1	max	635.008	2	495.282	7	447.476	4	.007	4	.025	6	-.032	1
372			min	-731.18	1	26.797	4	-491.969	3	-.015	3	-.002	4	-.194	6
373		2	max	103.777	2	-77.175	2	202.837	3	.114	3	.077	3	.462	7
374			min	-175.319	1	-549.151	5	-282.917	4	-.149	4	-.169	4	.121	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
375		3	max	236.427	3	604.178	8	293.969	4	.471	5	.01	2	.446	5
376			min	-359.579	4	141.177	3	-225.521	3	-.039	2	-.107	5	-.031	2
377		4	max	88.363	1	151.98	3	144.21	2	.325	6	.035	1	.209	6
378			min	-223.279	2	-116.442	4	-111.939	1	-.059	1	-.02	2	-.02	1
379		5	max	0	11	.003	3	0	2	0	11	0	11	0	11
380			min	0	1	-.007	1	-.002	4	0	1	0	1	0	1
381	M56B	1	max	180.448	2	274.656	7	25.757	2	0	11	.205	6	.014	2
382			min	-327.185	1	26.245	4	-349.212	5	0	8	.009	1	-.025	1
383		2	max	180.448	2	274.656	7	25.757	2	0	11	.198	6	.011	2
384			min	-327.185	1	26.245	4	-349.212	5	0	8	.003	1	-.027	1
385		3	max	180.448	2	274.656	7	25.757	2	0	11	.191	6	.008	2
386			min	-327.185	1	26.245	4	-349.212	5	0	8	-.003	1	-.031	5
387		4	max	180.448	2	274.656	7	25.757	2	0	11	.184	6	.005	2
388			min	-327.185	1	26.245	4	-349.212	5	0	8	-.009	1	-.037	5
389		5	max	180.448	2	274.656	7	25.757	2	0	11	.176	6	.002	2
390			min	-327.185	1	26.245	4	-349.212	5	0	8	-.015	1	-.044	5
391	M57B	1	max	263.499	4	377.29	7	206.72	6	0	1	.028	4	.057	5
392			min	-581.468	3	15.052	4	-91.271	1	0	6	-.043	3	.012	2
393		2	max	263.499	4	377.29	7	206.72	6	0	1	.028	4	.048	5
394			min	-581.468	3	15.052	4	-91.271	1	0	6	-.04	3	.007	2
395		3	max	263.499	4	377.29	7	206.72	6	0	1	.027	4	.04	5
396			min	-581.468	3	15.052	4	-91.271	1	0	6	-.037	3	.002	2
397		4	max	263.499	4	377.29	7	206.72	6	0	1	.027	4	.031	5
398			min	-581.468	3	15.052	4	-91.271	1	0	6	-.034	3	-.003	2
399		5	max	263.499	4	377.29	7	206.72	6	0	1	.027	4	.024	1
400			min	-581.468	3	15.052	4	-91.271	1	0	6	-.031	3	-.008	2
401	M58A	1	max	195.44	3	-5.502	4	198.72	6	0	7	.042	8	.117	8
402			min	-1810.891	8	-167.537	7	-25.628	1	0	8	-.013	3	-.011	3
403		2	max	195.44	3	-5.502	4	198.72	6	0	7	.046	8	.121	8
404			min	-1810.891	8	-167.537	7	-25.628	1	0	8	-.011	3	-.008	3
405		3	max	195.44	3	-5.502	4	198.72	6	0	7	.051	8	.125	8
406			min	-1810.891	8	-167.537	7	-25.628	1	0	8	-.008	3	-.005	3
407		4	max	195.44	3	-5.502	4	198.72	6	0	7	.055	8	.128	8
408			min	-1810.891	8	-167.537	7	-25.628	1	0	8	-.006	3	-.003	3
409		5	max	195.44	3	-5.502	4	198.72	6	0	7	.059	8	.132	8
410			min	-1810.891	8	-167.537	7	-25.628	1	0	8	-.004	3	0	3
411	M68	1	max	0	11	.009	1	.003	3	0	11	0	11	0	11
412			min	0	1	-.005	4	-.001	2	0	1	0	1	0	1
413		2	max	72.406	1	125.605	3	124.164	1	.07	1	.045	1	.226	6
414			min	-211.603	7	-146.997	4	-151.248	2	-.339	6	-.027	2	-.035	1
415		3	max	245.359	4	-158.623	4	180.28	4	-.003	4	-.013	2	.561	5
416			min	-384.985	3	-591.409	7	-253.017	3	-.488	7	-.113	7	-.109	2
417		4	max	181.309	2	502.158	5	153.208	3	.007	2	.103	4	.604	5
418			min	-272.152	1	68.168	2	-73.895	4	-.003	9	-.205	3	.061	2
419		5	max	193.084	2	474.027	5	132.775	3	.007	2	.031	7	-.021	9
420			min	-283.926	1	57.237	2	-53.514	4	-.003	9	.005	4	-.153	7
421	M69	1	max	641.339	3	494.812	5	702.467	3	.001	3	.026	7	-.032	9
422			min	-734.86	4	33.106	2	-743.303	4	-.017	9	.001	4	-.193	5
423		2	max	195.784	3	-82.181	3	145.946	1	.145	4	.099	4	.574	9
424			min	-266.794	4	-546.429	8	-223.933	2	-.179	3	-.192	3	.127	3
425		3	max	159.903	1	607.368	7	275.156	3	.47	8	.054	3	.581	9
426			min	-282.497	2	140.701	4	-205.932	4	-.044	3	-.127	4	-.037	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
427		4	max	72.97	4	454.566	9	128.444	3	.316	5	.034	2	.281	9
428			min	-210.697	7	-67.325	2	-97.383	4	-.023	4	-.018	1	-.026	2
429		5	max	0	11	.003	9	0	7	0	11	0	11	0	11
430			min	0	1	-.008	4	0	4	0	1	0	1	0	1
431	M70	1	max	228.363	3	274.032	5	189.148	3	0	8	.213	7	.023	3
432			min	-375.183	4	31.598	2	-398.624	4	0	6	-.024	4	-.034	4
433		2	max	228.363	3	274.032	5	189.148	3	0	8	.207	7	.021	3
434			min	-375.183	4	31.598	2	-398.624	4	0	6	-.035	4	-.036	4
435		3	max	228.363	3	274.032	5	189.148	3	0	8	.2	7	.019	3
436			min	-375.183	4	31.598	2	-398.624	4	0	6	-.045	4	-.039	4
437		4	max	228.363	3	274.032	5	189.148	3	0	8	.194	7	.016	3
438			min	-375.183	4	31.598	2	-398.624	4	0	6	-.056	4	-.041	4
439		5	max	228.363	3	274.032	5	189.148	3	0	8	.188	7	.014	3
440			min	-375.183	4	31.598	2	-398.624	4	0	6	-.066	4	-.046	8
441	M71	1	max	554.362	3	376.214	5	277.107	3	0	3	.017	3	.057	6
442			min	-875.032	4	22.277	2	-166.643	4	0	5	-.033	4	.008	3
443		2	max	554.362	3	376.214	5	277.107	3	0	3	.024	3	.049	6
444			min	-875.032	4	22.277	2	-166.643	4	0	5	-.037	4	.003	3
445		3	max	554.362	3	376.214	5	277.107	3	0	3	.031	3	.04	6
446			min	-875.032	4	22.277	2	-166.643	4	0	5	-.041	4	-.001	3
447		4	max	554.362	3	376.214	5	277.107	3	0	3	.039	3	.032	6
448			min	-875.032	4	22.277	2	-166.643	4	0	5	-.046	4	-.006	3
449		5	max	554.362	3	376.214	5	277.107	3	0	3	.046	3	.027	2
450			min	-875.032	4	22.277	2	-166.643	4	0	5	-.05	4	-.011	3
451	M72	1	max	397.834	4	-10.537	2	210.362	7	0	8	.041	7	.118	7
452			min	-1859.789	7	-166.404	5	-82.432	4	0	1	-.011	4	-.014	4
453		2	max	397.834	4	-10.537	2	210.362	7	0	8	.047	7	.122	7
454			min	-1859.789	7	-166.404	5	-82.432	4	0	1	-.013	4	-.013	4
455		3	max	397.834	4	-10.537	2	210.362	7	0	8	.052	7	.126	7
456			min	-1859.789	7	-166.404	5	-82.432	4	0	1	-.015	4	-.012	4
457		4	max	397.834	4	-10.537	2	210.362	7	0	8	.058	7	.13	7
458			min	-1859.789	7	-166.404	5	-82.432	4	0	1	-.017	4	-.011	4
459		5	max	397.834	4	-10.537	2	210.362	7	0	8	.063	7	.134	7
460			min	-1859.789	7	-166.404	5	-82.432	4	0	1	-.019	4	-.01	4
461	M55A	1	max	143.728	1	136.023	4	165.534	7	.005	3	.016	4	.39	6
462			min	-235.17	2	-136.477	3	-50.721	4	-.006	4	-.046	7	-.08	1
463		2	max	143.728	1	136.023	4	165.534	7	.005	3	.014	4	.389	6
464			min	-235.17	2	-136.477	3	-50.721	4	-.006	4	-.04	7	-.08	1
465		3	max	143.728	1	136.023	4	165.534	7	.005	3	.012	4	.388	6
466			min	-235.17	2	-136.477	3	-50.721	4	-.006	4	-.033	7	-.079	1
467		4	max	143.728	1	136.023	4	165.534	7	.005	3	.01	4	.386	6
468			min	-235.17	2	-136.477	3	-50.721	4	-.006	4	-.027	7	-.079	1
469		5	max	143.728	1	136.023	4	165.534	7	.005	3	.008	4	.385	6
470			min	-235.17	2	-136.477	3	-50.721	4	-.006	4	-.02	3	-.079	1
471	M56A	1	max	141.122	1	141.122	3	34.137	1	.006	3	.044	8	.374	6
472			min	-236.549	2	-127.302	4	-156.493	8	-.005	4	-.01	1	-.067	1
473		2	max	141.122	1	141.122	3	34.137	1	.006	3	.037	8	.374	6
474			min	-236.549	2	-127.302	4	-156.493	8	-.005	4	-.009	1	-.068	1
475		3	max	141.122	1	141.122	3	34.137	1	.006	3	.031	8	.374	6
476			min	-236.549	2	-127.302	4	-156.493	8	-.005	4	-.008	1	-.068	1
477		4	max	141.122	1	141.122	3	34.137	1	.006	3	.025	8	.374	6
478			min	-236.549	2	-127.302	4	-156.493	8	-.005	4	-.006	1	-.069	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
479		5	max	141.122	1	141.122	3	34.137	1	.006	3	.019	8	.373	6
480			min	-236.549	2	-127.302	4	-156.493	8	-.005	4	-.005	1	-.069	1
481	M55C	1	max	108.11	4	84.324	2	164.727	5	.004	10	.008	2	.378	7
482			min	-198.692	3	-465.678	9	-51.39	2	-.008	9	-.02	1	-.321	9
483		2	max	108.923	4	84.094	2	164.856	5	.004	10	.005	2	.376	7
484			min	-199.505	3	-465.908	9	-51.86	2	-.008	9	-.012	1	-.294	9
485		3	max	109.736	4	83.865	2	164.985	5	.004	10	.002	2	.374	7
486			min	-200.318	3	-466.137	9	-52.329	2	-.008	9	-.003	1	-.268	9
487		4	max	110.549	4	83.635	2	165.114	5	.004	10	.008	5	.372	7
488			min	-201.131	3	-466.367	9	-52.799	2	-.008	9	0	2	-.242	9
489		5	max	111.362	4	83.406	2	165.242	5	.004	10	.017	5	.37	7
490			min	-201.944	3	-466.596	9	-53.268	2	-.008	9	-.004	2	-.216	9
491	M56C	1	max	108.11	4	84.319	2	164.879	5	.004	10	.016	2	.384	7
492			min	-198.692	3	-465.682	9	-51.343	2	-.008	9	-.046	5	-.395	9
493		2	max	108.11	4	84.319	2	164.879	5	.004	10	.014	2	.382	7
494			min	-198.692	3	-465.682	9	-51.343	2	-.008	9	-.04	5	-.376	9
495		3	max	108.11	4	84.319	2	164.879	5	.004	10	.012	2	.381	7
496			min	-198.692	3	-465.682	9	-51.343	2	-.008	9	-.033	5	-.358	9
497		4	max	108.11	4	84.319	2	164.879	5	.004	10	.01	2	.379	7
498			min	-198.692	3	-465.682	9	-51.343	2	-.008	9	-.027	1	-.339	9
499		5	max	108.11	4	84.319	2	164.879	5	.004	10	.008	2	.378	7
500			min	-198.692	3	-465.682	9	-51.343	2	-.008	9	-.02	1	-.321	9
501	M57A	1	max	109.064	4	444.025	9	34.908	4	.004	1	.043	7	.363	5
502			min	-202.979	3	-78.202	2	-155.769	7	-.003	2	-.011	4	-.027	4
503		2	max	109.064	4	444.025	9	34.908	4	.004	1	.037	7	.363	7
504			min	-202.979	3	-78.202	2	-155.769	7	-.003	2	-.01	4	-.029	4
505		3	max	109.064	4	444.025	9	34.908	4	.004	1	.031	7	.362	7
506			min	-202.979	3	-78.202	2	-155.769	7	-.003	2	-.009	4	-.03	4
507		4	max	109.064	4	444.025	9	34.908	4	.004	1	.025	7	.362	7
508			min	-202.979	3	-78.202	2	-155.769	7	-.003	2	-.007	4	-.031	4
509		5	max	109.064	4	444.025	9	34.908	4	.004	1	.018	7	.362	7
510			min	-202.979	3	-78.202	2	-155.769	7	-.003	2	-.006	4	-.033	4
511	M58B	1	max	136.221	3	98.74	1	154.273	8	.004	2	.004	3	.374	8
512			min	-226.687	4	-99.014	2	-19.117	3	-.005	1	-.019	8	-.041	3
513		2	max	135.408	3	98.511	1	154.659	8	.004	2	.003	3	.373	8
514			min	-225.873	4	-99.243	2	-20.525	3	-.005	1	-.01	8	-.042	3
515		3	max	134.595	3	98.281	1	155.046	8	.004	2	.002	3	.372	8
516			min	-225.06	4	-99.473	2	-21.933	3	-.005	1	-.002	4	-.042	3
517		4	max	133.782	3	98.052	1	155.432	8	.004	2	.008	8	.371	8
518			min	-224.247	4	-99.702	2	-23.342	3	-.005	1	0	3	-.043	3
519		5	max	132.969	3	97.822	1	155.819	8	.004	2	.016	8	.369	8
520			min	-223.434	4	-99.932	2	-24.75	3	-.005	1	0	3	-.044	3
521	M59	1	max	136.221	3	98.754	1	154.425	8	.004	2	.007	3	.38	5
522			min	-226.686	4	-99.015	2	-19.073	3	-.005	1	-.043	8	-.053	2
523		2	max	136.221	3	98.754	1	154.425	8	.004	2	.006	3	.378	5
524			min	-226.686	4	-99.015	2	-19.073	3	-.005	1	-.037	8	-.049	2
525		3	max	136.221	3	98.754	1	154.425	8	.004	2	.006	3	.376	8
526			min	-226.686	4	-99.015	2	-19.073	3	-.005	1	-.031	8	-.045	2
527		4	max	136.221	3	98.754	1	154.425	8	.004	2	.005	3	.375	8
528			min	-226.686	4	-99.015	2	-19.073	3	-.005	1	-.025	8	-.041	2
529		5	max	136.221	3	98.754	1	154.425	8	.004	2	.004	3	.374	8
530			min	-226.686	4	-99.015	2	-19.073	3	-.005	1	-.019	8	-.041	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
531	M60	1	max	127.605	3	103.002	2	48.752	2	.004	2	.045	5	.371	8
532			min	-222.379	4	-89.212	1	-161.499	5	-.003	1	-.016	2	-.052	3
533		2	max	127.605	3	103.002	2	48.752	2	.004	2	.039	5	.371	8
534			min	-222.379	4	-89.212	1	-161.499	5	-.003	1	-.014	2	-.052	3
535		3	max	127.605	3	103.002	2	48.752	2	.004	2	.032	5	.37	8
536			min	-222.379	4	-89.212	1	-161.499	5	-.003	1	-.012	2	-.052	3
537		4	max	127.605	3	103.002	2	48.752	2	.004	2	.026	5	.37	8
538			min	-222.379	4	-89.212	1	-161.499	5	-.003	1	-.01	2	-.051	3
539		5	max	127.605	3	103.002	2	48.752	2	.004	2	.02	1	.369	8
540			min	-222.379	4	-89.212	1	-161.499	5	-.003	1	-.008	2	-.051	3
541	M64	1	max	105.812	4	79.12	2	40.587	4	.004	1	.017	7	.363	7
542			min	-199.726	3	-443.101	9	-157.169	7	-.003	2	-.003	4	-.04	4
543		2	max	106.625	4	78.89	2	39.178	4	.004	1	.008	7	.362	7
544			min	-200.54	3	-443.33	9	-156.782	7	-.003	2	0	4	-.038	4
545		3	max	107.438	4	78.661	2	37.77	4	.004	1	.002	4	.362	7
546			min	-201.353	3	-443.56	9	-156.396	7	-.003	2	-.002	3	-.037	4
547		4	max	108.251	4	78.432	2	36.362	4	.004	1	.004	4	.362	7
548			min	-202.166	3	-443.789	9	-156.009	7	-.003	2	-.01	3	-.035	4
549		5	max	109.064	4	78.202	2	34.953	4	.004	1	.006	4	.362	7
550			min	-202.979	3	-444.019	9	-155.623	7	-.003	2	-.018	7	-.033	4
551	M65	1	max	112.36	1	129.268	4	65.846	3	0	8	.018	4	.382	6
552			min	-164.257	2	-131.84	3	-62.374	4	0	1	-.019	3	-.077	1
553		2	max	112.36	1	128.531	4	65.846	3	0	8	.009	4	.38	6
554			min	-164.257	2	-132.577	3	-62.374	4	0	1	-.009	3	-.076	1
555		3	max	112.36	1	127.794	4	65.846	3	0	8	0	1	.378	6
556			min	-164.257	2	-133.314	3	-62.374	4	0	1	0	2	-.074	1
557		4	max	112.36	1	127.057	4	65.846	3	0	8	.009	3	.376	6
558			min	-164.257	2	-134.051	3	-62.374	4	0	1	-.009	4	-.073	1
559		5	max	112.36	1	126.32	4	65.846	3	0	8	.019	3	.375	6
560			min	-164.257	2	-134.788	3	-62.374	4	0	1	-.018	4	-.071	1
561	M66	1	max	141.122	1	128.218	4	41.691	1	.006	3	.017	6	.372	6
562			min	-236.549	2	-140.199	3	-156.381	8	-.005	4	-.004	1	-.072	1
563		2	max	141.122	1	127.989	4	39.813	1	.006	3	.008	6	.372	6
564			min	-236.549	2	-140.428	3	-156.381	8	-.005	4	-.001	1	-.071	1
565		3	max	141.122	1	127.759	4	37.935	1	.006	3	.002	3	.373	6
566			min	-236.549	2	-140.658	3	-156.381	8	-.005	4	-.002	4	-.071	1
567		4	max	141.122	1	127.53	4	36.057	1	.006	3	.003	3	.373	6
568			min	-236.549	2	-140.887	3	-156.381	8	-.005	4	-.01	8	-.07	1
569		5	max	141.122	1	127.3	4	34.179	1	.006	3	.005	1	.373	6
570			min	-236.549	2	-141.116	3	-156.381	8	-.005	4	-.019	8	-.069	1
571	M67	1	max	105.263	3	91.634	1	62.522	2	.001	1	.017	1	.372	8
572			min	-156.441	4	-95.887	2	-59.953	1	-.001	2	-.017	2	-.043	3
573		2	max	103.218	3	90.898	1	61.342	2	.001	1	.008	1	.371	8
574			min	-154.397	4	-96.623	2	-58.772	1	-.001	2	-.009	2	-.045	3
575		3	max	101.174	3	90.161	1	60.161	2	.001	1	0	1	.37	8
576			min	-152.352	4	-97.36	2	-57.592	1	-.001	2	0	2	-.046	3
577		4	max	99.13	3	89.425	1	58.981	2	.001	1	.008	2	.369	8
578			min	-150.308	4	-98.096	2	-56.412	1	-.001	2	-.008	1	-.048	3
579		5	max	97.085	3	88.688	1	57.801	2	.001	1	.017	2	.369	8
580			min	-148.264	4	-98.832	2	-55.231	1	-.001	2	-.016	1	-.049	3
581	M68A	1	max	130.857	3	90.145	1	50.65	2	.004	2	.017	5	.367	8
582			min	-225.63	4	-102.082	2	-161.875	5	-.003	1	-.004	3	-.049	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
583		2	max	130.044	3	89.916	1	50.181	2	.004	2	.008	8	.367	8
584			min	-224.817	4	-102.312	2	-161.746	5	-.003	1	-.002	3	-.049	3
585		3	max	129.23	3	89.687	1	49.711	2	.004	2	.002	2	.368	8
586			min	-224.003	4	-102.541	2	-161.617	5	-.003	1	-.003	1	-.05	3
587		4	max	128.417	3	89.457	1	49.242	2	.004	2	.005	2	.368	8
588			min	-223.19	4	-102.771	2	-161.488	5	-.003	1	-.011	1	-.051	3
589		5	max	127.604	3	89.228	1	48.772	2	.004	2	.008	2	.369	8
590			min	-222.377	4	-103	2	-161.359	5	-.003	1	-.02	1	-.051	3
591	M69A	1	max	77.766	4	80.64	2	45.898	1	0	3	.012	2	.374	7
592			min	-128.582	3	-452.698	9	-41.312	2	-.007	9	-.013	1	-.215	9
593		2	max	79.81	4	79.903	2	47.079	1	0	3	.006	2	.371	7
594			min	-130.627	3	-453.435	9	-42.492	2	-.007	9	-.006	1	-.151	9
595		3	max	81.855	4	79.166	2	48.259	1	0	3	0	9	.368	7
596			min	-132.671	3	-454.172	9	-43.673	2	-.007	9	0	2	-.087	9
597		4	max	83.899	4	78.429	2	49.439	1	0	3	.007	1	.366	7
598			min	-134.716	3	-454.909	9	-44.853	2	-.007	9	-.006	2	-.043	4
599		5	max	85.944	4	77.692	2	50.62	1	0	3	.014	1	.365	7
600			min	-136.76	3	-455.646	9	-46.033	2	-.007	9	-.013	2	-.039	4
601	M67A	1	max	0	11	.009	1	.001	5	0	11	0	11	0	11
602			min	0	1	0	9	-.046	4	0	1	0	1	0	1
603		2	max	676.983	4	123.578	2	215.755	4	.184	4	.071	1	.179	2
604			min	-608.91	3	-104.354	9	-189.777	3	-.172	3	-.054	2	-.167	9
605		3	max	539.461	4	86.937	4	116.35	3	.157	2	.562	4	.111	4
606			min	-448.877	3	-119.84	3	-142.705	4	-.183	1	-.472	3	-.193	3
607		4	max	523.347	4	73.921	4	144.26	3	.157	2	.072	4	.201	3
608			min	-432.762	3	-132.856	3	-170.615	4	-.183	1	-.065	3	-.14	4
609		5	max	0	11	0	9	.032	1	0	11	0	11	0	11
610			min	0	1	-.008	2	-.017	4	0	1	0	1	0	1
611	M68B	1	max	0	11	0	11	0	11	0	11	0	11	0	11
612			min	0	1	0	1	0	1	0	1	0	1	0	1
613		2	max	750.998	2	103.227	4	211.994	1	.119	3	.04	4	.166	4
614			min	-661.081	1	-121.949	9	-240.024	2	-.146	4	-.047	3	-.191	9
615		3	max	750.998	2	90.211	4	174.78	1	.119	3	.634	1	.211	9
616			min	-661.081	1	-134.964	9	-202.81	2	-.146	4	-.731	2	-.137	4
617		4	max	749.496	2	28.713	4	239.842	2	.136	3	.044	1	.129	3
618			min	-686.209	1	-87.058	7	-210.238	1	-.124	4	-.064	2	-.098	4
619		5	max	0	11	0	11	0	11	0	11	0	11	0	11
620			min	0	1	0	1	0	1	0	1	0	1	0	1
621	M69B	1	max	0	11	.008	1	.048	3	0	11	0	11	0	11
622			min	0	1	0	11	-.002	5	0	1	0	1	0	1
623		2	max	706.705	3	135.169	2	195.423	4	.176	4	.058	2	.21	2
624			min	-613.298	4	-77.286	1	-220.386	3	-.202	3	-.065	1	-.151	1
625		3	max	690.591	3	122.153	2	167.512	4	.176	4	.545	4	.111	1
626			min	-597.184	4	-90.302	1	-192.475	3	-.202	3	-.632	3	-.192	2
627		4	max	551.314	3	74.387	3	171.655	3	.171	1	.074	4	.187	4
628			min	-488.255	4	-132.654	4	-143.762	4	-.16	2	-.092	3	-.153	3
629		5	max	0	11	0	8	.015	3	0	11	0	11	0	11
630			min	0	1	-.009	2	-.031	1	0	1	0	1	0	1
631	M73	1	max	178.131	1	215.202	1	27.151	2	.256	9	.277	2	.132	1
632			min	-227.703	2	-116.415	9	-156.558	9	-.213	4	-.235	1	-.138	2
633		2	max	178.131	1	215.202	1	27.151	2	.256	9	.279	2	.123	3
634			min	-227.703	2	-116.415	9	-156.558	9	-.213	4	-.236	1	-.132	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
635		3	max	178.131	1	215.202	1	27.151	2	.256	9	.281	2	.122	3
636			min	-227.703	2	-116.415	9	-156.558	9	-.213	4	-.237	1	-.137	4
637		4	max	178.131	1	215.202	1	27.151	2	.256	9	.282	2	.122	3
638			min	-227.703	2	-116.415	9	-156.558	9	-.213	4	-.238	1	-.143	4
639		5	max	178.131	1	215.202	1	27.151	2	.256	9	.284	2	.121	3
640			min	-227.703	2	-116.415	9	-156.558	9	-.213	4	-.239	1	-.149	4
641	M74	1	max	176.62	1	-33.551	9	207.683	3	.449	9	.235	1	.204	3
642			min	-127.045	2	-536.503	5	-213.528	4	-.331	4	-.277	2	-.548	9
643		2	max	176.62	1	-33.551	9	207.683	3	.449	9	.236	1	.214	3
644			min	-127.045	2	-536.503	5	-213.528	4	-.331	4	-.279	2	-.545	9
645		3	max	176.62	1	-33.551	9	207.683	3	.449	9	.237	1	.224	3
646			min	-127.045	2	-536.503	5	-213.528	4	-.331	4	-.28	2	-.543	9
647		4	max	176.62	1	-33.551	9	207.683	3	.449	9	.238	1	.234	3
648			min	-127.045	2	-536.503	5	-213.528	4	-.331	4	-.282	2	-.541	9
649		5	max	176.62	1	-33.551	9	207.683	3	.449	9	.24	1	.243	3
650			min	-127.045	2	-536.503	5	-213.528	4	-.331	4	-.283	2	-.539	9
651	M75	1	max	357.864	1	175.31	9	175.586	3	.174	3	.106	4	.201	2
652			min	-392.395	2	-83.826	5	-202.134	4	-.153	4	-.109	3	-.167	1
653		2	max	357.864	1	175.31	9	175.586	3	.174	3	.093	4	.2	2
654			min	-392.395	2	-83.826	5	-202.134	4	-.153	4	-.098	3	-.163	1
655		3	max	357.864	1	175.31	9	175.586	3	.174	3	.08	4	.199	2
656			min	-392.395	2	-83.826	5	-202.134	4	-.153	4	-.087	3	-.158	1
657		4	max	357.864	1	175.31	9	175.586	3	.174	3	.068	4	.198	2
658			min	-392.395	2	-83.826	5	-202.134	4	-.153	4	-.076	3	-.153	1
659		5	max	357.864	1	175.31	9	175.586	3	.174	3	.055	4	.197	2
660			min	-392.395	2	-83.826	5	-202.134	4	-.153	4	-.065	3	-.149	1
661	M76	1	max	903.427	1	-283.459	1	510.732	3	.226	3	.109	3	.063	2
662			min	-868.873	2	-964.226	6	-484.194	4	-.127	4	-.106	4	-.328	5
663		2	max	903.427	1	-283.459	1	510.732	3	.226	3	.141	3	.086	2
664			min	-868.873	2	-964.226	6	-484.194	4	-.127	4	-.136	4	-.269	5
665		3	max	903.427	1	-283.459	1	510.732	3	.226	3	.173	3	.109	2
666			min	-868.873	2	-964.226	6	-484.194	4	-.127	4	-.166	4	-.214	1
667		4	max	903.427	1	-283.459	1	510.732	3	.226	3	.204	3	.133	2
668			min	-868.873	2	-964.226	6	-484.194	4	-.127	4	-.196	4	-.196	1
669		5	max	903.427	1	-283.459	1	510.732	3	.226	3	.236	3	.156	2
670			min	-868.873	2	-964.226	6	-484.194	4	-.127	4	-.227	4	-.179	1
671	M77	1	max	202.934	1	237.174	1	26.959	9	.168	3	.232	1	.133	4
672			min	-243.557	2	-133.354	2	-11.492	10	-.149	4	-.265	2	-.122	2
673		2	max	202.934	1	237.174	1	26.959	9	.168	3	.233	1	.131	4
674			min	-243.557	2	-133.354	2	-11.492	10	-.149	4	-.266	2	-.125	3
675		3	max	202.934	1	237.174	1	26.959	9	.168	3	.234	1	.13	4
676			min	-243.557	2	-133.354	2	-11.492	10	-.149	4	-.266	2	-.13	3
677		4	max	202.934	1	237.174	1	26.959	9	.168	3	.234	1	.128	4
678			min	-243.557	2	-133.354	2	-11.492	10	-.149	4	-.267	2	-.134	3
679		5	max	202.934	1	237.174	1	26.959	9	.168	3	.235	1	.126	4
680			min	-243.557	2	-133.354	2	-11.492	10	-.149	4	-.267	2	-.139	3
681	M78	1	max	264.627	1	2.694	2	217.8	3	.225	3	.265	2	.226	4
682			min	-224.003	2	-573.502	5	-227.251	4	-.286	4	-.232	1	-.413	3
683		2	max	264.627	1	2.694	2	217.8	3	.225	3	.265	2	.236	4
684			min	-224.003	2	-573.502	5	-227.251	4	-.286	4	-.233	1	-.4	3
685		3	max	264.627	1	2.694	2	217.8	3	.225	3	.266	2	.246	4
686			min	-224.003	2	-573.502	5	-227.251	4	-.286	4	-.234	1	-.387	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
687		4	max	264.627	1	2.694	2	217.8	3	.225	3	.266	2	.256	4
688			min	-224.003	2	-573.502	5	-227.251	4	-.286	4	-.235	1	-.374	3
689		5	max	264.627	1	2.694	2	217.8	3	.225	3	.266	2	.266	4
690			min	-224.003	2	-573.502	5	-227.251	4	-.286	4	-.236	1	-.361	3
691	MP3C	1	max	0	11	.013	6	.004	1	0	11	0	11	0	11
692			min	0	1	-.002	1	-.007	6	0	1	0	1	0	1
693		2	max	330.835	6	61.242	7	157.388	4	.321	3	.161	3	.022	4
694			min	-5.494	1	-16.379	4	-182.974	3	-.285	4	-.151	4	-.097	7
695		3	max	350.105	6	53.312	7	157.388	4	.321	3	.085	4	.033	4
696			min	.754	1	1.484	4	-182.974	3	-.285	4	-.114	3	-.183	7
697		4	max	506.876	6	140.723	4	244.802	1	.321	3	.349	1	-.004	1
698			min	68.801	1	-101.044	3	-276.061	2	-.285	4	-.429	2	-.254	6
699		5	max	0	11	.022	5	.003	2	0	11	0	11	0	11
700			min	0	1	.001	4	-.004	5	0	1	0	1	0	1
701	MP2C	1	max	0	11	.009	8	.001	1	0	11	0	11	0	11
702			min	0	1	-.003	3	-.004	6	0	1	0	1	0	1
703		2	max	238.793	5	161.929	4	115.063	1	.112	2	.202	2	.227	4
704			min	-4.509	2	-116.051	3	-112.584	2	-.114	1	-.226	1	-.308	3
705		3	max	612.422	5	357.603	4	254.465	1	.112	2	.259	1	.292	3
706			min	196.961	2	-311.725	3	-251.986	2	-.114	1	-.278	2	-.464	4
707		4	max	-67.641	10	458.526	3	314.419	2	0	11	.024	1	.024	3
708			min	-296.543	5	-458.388	4	-314.433	1	0	1	-.024	2	-.024	4
709		5	max	0	11	.815	8	.014	1	0	11	0	11	0	11
710			min	0	1	.053	3	-.142	6	0	1	0	1	0	1
711	MP1C	1	max	0	11	.011	5	0	3	0	11	0	11	0	11
712			min	0	1	-.005	2	-.008	8	0	1	0	1	0	1
713		2	max	299.872	8	170.02	1	44.673	4	.188	2	.089	2	.078	1
714			min	-122.224	3	-142.631	2	-72.242	3	-.211	1	-.138	1	-.11	2
715		3	max	435.3	8	180.483	4	64.047	1	.188	2	-.016	2	.104	2
716			min	-60.776	3	-146.533	3	-92.442	2	-.211	1	-.138	5	-.177	1
717		4	max	454.57	8	198.346	4	81.909	1	.188	2	.035	1	.318	2
718			min	-54.529	3	-164.396	3	-110.305	2	-.211	1	-.22	6	-.432	1
719		5	max	-24.42	10	135.133	3	81.334	2	0	11	0	11	0	11
720			min	-92.216	5	-135.086	4	-81.387	1	0	1	0	1	0	1
721	M76A	1	max	212.888	4	174.921	2	64.559	3	.237	4	.321	3	.206	4
722			min	-260.38	3	-73.574	1	-54.826	4	-.277	3	-.285	4	-.208	3
723		2	max	212.888	4	174.921	2	64.559	3	.237	4	.325	3	.199	4
724			min	-260.38	3	-73.574	1	-54.826	4	-.277	3	-.288	4	-.207	3
725		3	max	212.888	4	174.921	2	64.559	3	.237	4	.33	3	.192	4
726			min	-260.38	3	-73.574	1	-54.826	4	-.277	3	-.292	4	-.206	3
727		4	max	212.888	4	174.921	2	64.559	3	.237	4	.334	3	.186	4
728			min	-260.38	3	-73.574	1	-54.826	4	-.277	3	-.295	4	-.206	3
729		5	max	212.888	4	174.921	2	64.559	3	.237	4	.338	3	.179	4
730			min	-260.38	3	-73.574	1	-54.826	4	-.277	3	-.299	4	-.205	3
731	M77A	1	max	174.115	2	-74.758	1	231.111	1	.408	1	.285	4	.227	1
732			min	-124.979	1	-526.412	6	-237.116	2	-.391	2	-.321	3	-.449	2
733		2	max	174.115	2	-74.758	1	231.111	1	.408	1	.298	4	.231	1
734			min	-124.979	1	-526.412	6	-237.116	2	-.391	2	-.335	3	-.429	2
735		3	max	174.115	2	-74.758	1	231.111	1	.408	1	.312	4	.236	1
736			min	-124.979	1	-526.412	6	-237.116	2	-.391	2	-.349	3	-.408	2
737		4	max	174.115	2	-74.758	1	231.111	1	.408	1	.325	4	.241	1
738			min	-124.979	1	-526.412	6	-237.116	2	-.391	2	-.362	3	-.388	2

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
739		5	max	174.115	2	-74.758	1	231.111	1	.408	1	.339	4	.245	1
740			min	-124.979	1	-526.412	6	-237.116	2	-.391	2	-.376	3	-.368	2
741	M78A	1	max	290.544	4	10.623	1	149.131	1	.266	4	.112	2	.154	3
742			min	-326.46	3	-83.558	6	-175.239	2	-.237	3	-.114	1	-.123	4
743		2	max	290.544	4	10.623	1	149.131	1	.266	4	.101	2	.154	3
744			min	-326.46	3	-83.558	6	-175.239	2	-.237	3	-.106	4	-.12	4
745		3	max	290.544	4	10.623	1	149.131	1	.266	4	.091	3	.154	3
746			min	-326.46	3	-83.558	6	-175.239	2	-.237	3	-.1	4	-.117	4
747		4	max	290.544	4	10.623	1	149.131	1	.266	4	.083	3	.155	3
748			min	-326.46	3	-83.558	6	-175.239	2	-.237	3	-.095	4	-.113	4
749		5	max	290.544	4	10.623	1	149.131	1	.266	4	.075	3	.155	3
750			min	-326.46	3	-83.558	6	-175.239	2	-.237	3	-.089	4	-.11	4
751	M79	1	max	710.037	4	-286.593	2	543.945	1	.276	4	.114	1	.041	3
752			min	-674.126	3	-964.296	5	-519.787	2	-.169	3	-.112	2	-.323	8
753		2	max	710.037	4	-286.593	2	543.945	1	.276	4	.148	1	.063	3
754			min	-674.126	3	-964.296	5	-519.787	2	-.169	3	-.145	2	-.264	8
755		3	max	710.037	4	-286.593	2	543.945	1	.276	4	.182	1	.085	3
756			min	-674.126	3	-964.296	5	-519.787	2	-.169	3	-.177	2	-.205	8
757		4	max	710.037	4	-286.593	2	543.945	1	.276	4	.216	1	.107	3
758			min	-674.126	3	-964.296	5	-519.787	2	-.169	3	-.21	2	-.175	4
759		5	max	710.037	4	-286.593	2	543.945	1	.276	4	.25	1	.129	3
760			min	-674.126	3	-964.296	5	-519.787	2	-.169	3	-.242	2	-.156	4
761	M80	1	max	155.119	2	258.13	4	19.479	7	.21	1	.188	2	.179	2
762			min	-193.139	1	-152.367	3	-6.558	4	-.195	2	-.211	1	-.166	1
763		2	max	155.119	2	258.13	4	19.479	7	.21	1	.189	2	.175	2
764			min	-193.139	1	-152.367	3	-6.558	4	-.195	2	-.211	1	-.168	1
765		3	max	155.119	2	258.13	4	19.479	7	.21	1	.189	2	.171	2
766			min	-193.139	1	-152.367	3	-6.558	4	-.195	2	-.212	1	-.17	1
767		4	max	155.119	2	258.13	4	19.479	7	.21	1	.19	2	.167	2
768			min	-193.139	1	-152.367	3	-6.558	4	-.195	2	-.212	1	-.172	1
769		5	max	155.119	2	258.13	4	19.479	7	.21	1	.191	2	.162	2
770			min	-193.139	1	-152.367	3	-6.558	4	-.195	2	-.212	1	-.174	1
771	M81	1	max	290.324	4	22.376	3	245.833	1	.249	1	.211	1	.269	2
772			min	-249.216	3	-577.787	8	-256.557	2	-.314	2	-.188	2	-.453	1
773		2	max	290.324	4	22.376	3	245.833	1	.249	1	.226	1	.281	2
774			min	-249.216	3	-577.787	8	-256.557	2	-.314	2	-.204	2	-.442	1
775		3	max	290.324	4	22.376	3	245.833	1	.249	1	.241	1	.293	2
776			min	-249.216	3	-577.787	8	-256.557	2	-.314	2	-.22	2	-.432	1
777		4	max	290.324	4	22.376	3	245.833	1	.249	1	.257	1	.306	2
778			min	-249.216	3	-577.787	8	-256.557	2	-.314	2	-.236	2	-.421	1
779		5	max	290.324	4	22.376	3	245.833	1	.249	1	.272	1	.318	2
780			min	-249.216	3	-577.787	8	-256.557	2	-.314	2	-.252	2	-.411	1
781	MP3B	1	max	0	11	.005	2	0	4	0	11	0	11	0	11
782			min	0	1	-.013	5	-.008	7	0	1	0	1	0	1
783		2	max	350.454	7	141.375	2	52.814	3	.217	1	.09	2	.113	2
784			min	-79.83	4	-185.273	1	-71.673	4	-.183	2	-.148	1	-.092	1
785		3	max	369.724	7	141.375	2	52.814	3	.217	1	-.004	2	.186	1
786			min	-73.583	4	-185.273	1	-71.802	2	-.183	2	-.13	5	-.099	2
787		4	max	526.494	7	217.523	4	150.498	1	.217	1	.048	1	.463	1
788			min	-5.535	4	-267.161	3	-170.497	2	-.183	2	-.184	6	-.312	2
789		5	max	0	11	.002	3	0	2	0	11	0	11	0	11
790			min	0	1	-.014	8	-.019	5	0	1	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
791	MP2B	1	max	0	11	.003	4	.001	1	0	11	0	11	0	11
792			min	0	1	-.008	7	-.006	6	0	1	0	1	0	1
793		2	max	242.87	8	121.475	4	98.018	1	.118	1	.187	2	.29	4
794			min	-18.614	3	-140.727	3	-141.55	2	-.122	2	-.244	1	-.229	3
795		3	max	616.498	8	317.149	4	237.42	1	.118	1	.208	1	.42	3
796			min	182.856	3	-336.4	3	-280.952	2	-.122	2	-.351	2	-.32	4
797		4	max	-67.641	10	458.4	3	314.375	2	0	11	.024	1	.024	3
798			min	-296.543	5	-458.483	4	-314.485	1	0	1	-.024	2	-.024	4
799		5	max	0	11	-.009	4	-.037	10	0	11	0	11	0	11
800			min	0	1	-.532	7	-.651	6	0	1	0	1	0	1
801	MP1B	1	max	0	11	.002	1	.005	1	0	11	0	11	0	11
802			min	0	1	-.012	6	-.006	6	0	1	0	1	0	1
803		2	max	275.977	6	45.128	3	142.575	3	.283	3	.137	2	.094	8
804			min	-73.987	9	-137.359	9	-150.46	4	-.309	4	-.137	1	-.033	3
805		3	max	411.406	6	6.183	4	176.621	1	.283	3	.094	1	.187	8
806			min	-12.539	9	-137.359	9	-189.433	2	-.309	4	-.114	2	-.015	3
807		4	max	430.676	6	24.046	4	194.483	1	.283	3	.373	1	.388	9
808			min	-6.292	9	-137.359	9	-207.296	2	-.309	4	-.412	2	-.013	1
809		5	max	-24.42	10	135.043	3	81.364	2	0	11	0	11	0	11
810			min	-92.216	5	-135.114	4	-81.377	1	0	1	0	1	0	1
811	M85	1	max	144.304	2	251.393	3	37.926	1	.213	2	.217	1	.17	2
812			min	-192.16	1	-147.507	4	-30.17	2	-.257	1	-.183	2	-.172	1
813		2	max	144.304	2	251.393	3	37.926	1	.213	2	.219	1	.167	2
814			min	-192.16	1	-147.507	4	-30.17	2	-.257	1	-.185	2	-.176	1
815		3	max	144.304	2	251.393	3	37.926	1	.213	2	.221	1	.165	2
816			min	-192.16	1	-147.507	4	-30.17	2	-.257	1	-.187	2	-.179	1
817		4	max	144.304	2	251.393	3	37.926	1	.213	2	.224	1	.162	2
818			min	-192.16	1	-147.507	4	-30.17	2	-.257	1	-.189	2	-.182	1
819		5	max	144.304	2	251.393	3	37.926	1	.213	2	.226	1	.159	2
820			min	-192.16	1	-147.507	4	-30.17	2	-.257	1	-.191	2	-.186	1
821	M86	1	max	218.85	3	-.242	4	233.298	2	.404	2	.183	2	.208	2
822			min	-168.301	4	-546.051	7	-237.854	1	-.381	1	-.217	1	-.422	1
823		2	max	218.85	3	-.242	4	233.298	2	.404	2	.198	2	.22	2
824			min	-168.301	4	-546.051	7	-237.854	1	-.381	1	-.231	1	-.409	1
825		3	max	218.85	3	-.242	4	233.298	2	.404	2	.212	2	.232	2
826			min	-168.301	4	-546.051	7	-237.854	1	-.381	1	-.246	1	-.397	1
827		4	max	218.85	3	-.242	4	233.298	2	.404	2	.227	2	.244	2
828			min	-168.301	4	-546.051	7	-237.854	1	-.381	1	-.261	1	-.384	1
829		5	max	218.85	3	-.242	4	233.298	2	.404	2	.241	2	.256	2
830			min	-168.301	4	-546.051	7	-237.854	1	-.381	1	-.276	1	-.371	1
831	M87	1	max	285.283	3	143.955	9	141.011	2	.254	2	.118	1	.16	4
832			min	-321.367	4	-87.382	7	-167.799	1	-.229	1	-.122	2	-.13	3
833		2	max	285.283	3	143.955	9	141.011	2	.254	2	.107	1	.159	4
834			min	-321.367	4	-87.382	7	-167.799	1	-.229	1	-.114	2	-.125	3
835		3	max	285.283	3	143.955	9	141.011	2	.254	2	.097	1	.157	4
836			min	-321.367	4	-87.382	7	-167.799	1	-.229	1	-.105	2	-.119	3
837		4	max	285.283	3	143.955	9	141.011	2	.254	2	.086	1	.155	4
838			min	-321.367	4	-87.382	7	-167.799	1	-.229	1	-.096	2	-.114	3
839		5	max	285.283	3	143.955	9	141.011	2	.254	2	.076	1	.154	4
840			min	-321.367	4	-87.382	7	-167.799	1	-.229	1	-.087	2	-.108	3
841	M88	1	max	715.334	3	-272.472	3	553.664	2	.256	2	.122	2	.058	4
842			min	-679.231	4	-967.871	8	-525.206	1	-.153	1	-.118	1	-.326	7

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
843		2	max	715.334	3	-272.472	3	553.664	2	.256	2	.157	2	.082	4
844			min	-679.231	4	-967.871	8	-525.206	1	-.153	1	-.151	1	-.268	7
845		3	max	715.334	3	-272.472	3	553.664	2	.256	2	.192	2	.106	4
846			min	-679.231	4	-967.871	8	-525.206	1	-.153	1	-.184	1	-.214	3
847		4	max	715.334	3	-272.472	3	553.664	2	.256	2	.226	2	.13	4
848			min	-679.231	4	-967.871	8	-525.206	1	-.153	1	-.216	1	-.197	3
849		5	max	715.334	3	-272.472	3	553.664	2	.256	2	.261	2	.154	4
850			min	-679.231	4	-967.871	8	-525.206	1	-.153	1	-.249	1	-.18	3
851	M89	1	max	242.241	3	165.759	2	133.499	9	.209	2	.283	3	.211	3
852			min	-280.506	4	-104.868	9	-15.917	4	-.222	9	-.309	4	-.198	4
853		2	max	242.241	3	165.759	2	133.499	9	.209	2	.284	3	.201	3
854			min	-280.506	4	-104.868	9	-15.917	4	-.222	9	-.31	4	-.195	4
855		3	max	242.241	3	165.759	2	133.499	9	.209	2	.285	3	.192	3
856			min	-280.506	4	-104.868	9	-15.917	4	-.222	9	-.311	4	-.192	4
857		4	max	242.241	3	165.759	2	133.499	9	.209	2	.286	3	.183	3
858			min	-280.506	4	-104.868	9	-15.917	4	-.222	9	-.312	4	-.189	4
859		5	max	242.241	3	165.759	2	133.499	9	.209	2	.288	3	.174	3
860			min	-280.506	4	-104.868	9	-15.917	4	-.222	9	-.313	4	-.186	4
861	M90	1	max	188.813	2	-26.7	9	249.197	2	.268	2	.309	4	.219	3
862			min	-149.79	1	-553.821	6	-258.464	1	-.424	9	-.283	3	-.401	4
863		2	max	188.813	2	-26.7	9	249.197	2	.268	2	.323	4	.237	3
864			min	-149.79	1	-553.821	6	-258.464	1	-.424	9	-.297	3	-.396	4
865		3	max	188.813	2	-26.7	9	249.197	2	.268	2	.337	4	.254	3
866			min	-149.79	1	-553.821	6	-258.464	1	-.424	9	-.312	3	-.391	4
867		4	max	188.813	2	-26.7	9	249.197	2	.268	2	.351	4	.271	3
868			min	-149.79	1	-553.821	6	-258.464	1	-.424	9	-.327	3	-.385	4
869		5	max	188.813	2	-26.7	9	249.197	2	.268	2	.365	4	.289	3
870			min	-149.79	1	-553.821	6	-258.464	1	-.424	9	-.342	3	-.38	4
871	M91	1	max	787.611	1	46.495	7	61.891	1	.003	3	0	11	0	11
872			min	-889.99	2	10.04	4	-61.891	2	-.004	4	0	1	0	1
873		2	max	810.344	1	23.248	7	30.946	1	.003	3	.046	1	-.008	4
874			min	-915.832	2	5.02	4	-30.946	2	-.004	4	-.046	2	-.035	7
875		3	max	833.078	1	0	11	0	11	.003	3	.062	1	-.01	4
876			min	-941.673	2	0	1	0	1	-.004	4	-.062	2	-.046	7
877		4	max	855.811	1	-5.02	4	30.946	2	.003	3	.046	1	-.008	4
878			min	-967.514	2	-23.248	7	-30.946	1	-.004	4	-.046	2	-.035	7
879		5	max	878.545	1	-10.04	4	61.891	2	.003	3	0	11	0	11
880			min	-993.355	2	-46.495	7	-61.891	1	-.004	4	0	1	0	1
881	M92	1	max	916.885	1	46.495	8	61.891	1	.003	3	0	11	0	11
882			min	-1018.093	2	10.04	3	-61.891	2	-.003	4	0	1	0	1
883		2	max	894.151	1	23.248	8	30.946	1	.003	3	.046	1	-.008	3
884			min	-992.251	2	5.02	3	-30.946	2	-.003	4	-.046	2	-.035	8
885		3	max	871.417	1	0	11	0	11	.003	3	.062	1	-.01	3
886			min	-966.41	2	0	1	0	1	-.003	4	-.062	2	-.046	8
887		4	max	848.684	1	-5.02	3	30.946	2	.003	3	.046	1	-.008	3
888			min	-940.569	2	-23.248	8	-30.946	1	-.003	4	-.046	2	-.035	8
889		5	max	825.95	1	-10.04	3	61.891	2	.003	3	0	11	0	11
890			min	-914.728	2	-46.495	8	-61.891	1	-.003	4	0	1	0	1
891	M94	1	max	737.779	4	45.976	8	86.974	2	.003	4	0	11	0	11
892			min	-839.556	3	12.176	3	-86.974	1	-.004	3	0	1	0	1
893		2	max	754.513	4	22.988	8	43.487	2	.003	4	.065	2	-.009	3
894			min	-859.397	3	6.088	3	-43.487	1	-.004	3	-.065	1	-.034	8

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
895		3	max	771.246	4	0	11	0	11	.003	4	.087	2	-.012	3
896			min	-879.238	3	0	1	0	1	-.004	3	-.087	1	-.046	8
897		4	max	787.98	4	-6.088	3	43.487	1	.003	4	.065	2	-.009	3
898			min	-899.079	3	-22.988	8	-43.487	2	-.004	3	-.065	1	-.034	8
899		5	max	804.714	4	-12.176	3	86.974	1	.003	4	0	11	0	11
900			min	-918.92	3	-45.976	8	-86.974	2	-.004	3	0	1	0	1
901	M95	1	max	564.138	4	45.363	6	98.057	4	.004	1	0	11	0	11
902			min	-669.83	3	14.698	1	-98.057	3	-.003	2	0	1	0	1
903		2	max	558.45	4	22.681	6	49.029	4	.004	1	.074	4	-.011	1
904			min	-661.035	3	7.349	1	-49.029	3	-.003	2	-.074	3	-.034	6
905		3	max	552.762	4	0	11	0	11	.004	1	.098	4	-.015	1
906			min	-652.239	3	0	1	0	1	-.003	2	-.098	3	-.045	6
907		4	max	547.074	4	-7.349	1	49.029	3	.004	1	.074	4	-.011	1
908			min	-643.444	3	-22.681	6	-49.029	4	-.003	2	-.074	3	-.034	6
909		5	max	541.386	4	-14.698	1	98.057	3	.004	1	0	11	0	11
910			min	-634.648	3	-45.363	6	-98.057	4	-.003	2	0	1	0	1
911	M97	1	max	500.737	3	45.363	6	98.057	3	.003	2	0	11	0	11
912			min	-608.359	4	14.698	1	-98.057	4	-.004	1	0	1	0	1
913		2	max	506.425	3	22.681	6	49.029	3	.003	2	.074	3	-.011	1
914			min	-617.155	4	7.349	1	-49.029	4	-.004	1	-.074	4	-.034	6
915		3	max	512.113	3	0	11	0	11	.003	2	.098	3	-.015	1
916			min	-625.95	4	0	1	0	1	-.004	1	-.098	4	-.045	6
917		4	max	517.801	3	-7.349	1	49.029	4	.003	2	.074	3	-.011	1
918			min	-634.746	4	-22.681	6	-49.029	3	-.004	1	-.074	4	-.034	6
919		5	max	523.489	3	-14.698	1	98.057	4	.003	2	0	11	0	11
920			min	-643.541	4	-45.363	6	-98.057	3	-.004	1	0	1	0	1
921	M98	1	max	843.182	3	45.976	7	86.974	2	.004	2	0	11	0	11
922			min	-944.389	4	12.176	4	-86.974	1	-.003	3	0	1	0	1
923		2	max	826.448	3	22.988	7	43.487	2	.004	2	.065	2	-.009	4
924			min	-924.548	4	6.088	4	-43.487	1	-.003	3	-.065	1	-.034	7
925		3	max	809.715	3	0	11	0	11	.004	2	.087	2	-.012	4
926			min	-904.707	4	0	1	0	1	-.003	3	-.087	1	-.046	7
927		4	max	792.981	3	-6.088	4	43.487	1	.004	2	.065	2	-.009	4
928			min	-884.866	4	-22.988	7	-43.487	2	-.003	3	-.065	1	-.034	7
929		5	max	776.247	3	-12.176	4	86.974	1	.004	2	0	11	0	11
930			min	-865.025	4	-45.976	7	-86.974	2	-.003	3	0	1	0	1
931	M97A	1	max	642.572	1	121.356	1	656.286	2	.002	3	0	3	.002	4
932			min	-726.788	2	-177.747	2	-590.552	1	-.003	4	0	4	-.002	3
933		2	max	642.572	1	112.297	1	681.356	2	.002	3	.334	2	.092	2
934			min	-726.788	2	-186.806	2	-615.622	1	-.003	4	-.302	1	-.059	1
935		3	max	672.397	1	199.855	2	663.864	1	.003	3	.697	2	.191	2
936			min	-745.065	2	-110.095	8	-722.664	2	-.003	4	-.639	1	-.119	1
937		4	max	672.397	1	190.795	2	638.794	1	.003	3	.342	2	.094	2
938			min	-745.065	2	-118.928	1	-697.593	2	-.002	4	-.313	1	-.062	1
939		5	max	672.397	1	181.736	2	613.723	1	.003	3	0	4	.002	3
940			min	-745.065	2	-127.988	1	-672.523	2	-.002	4	0	3	-.002	4
941	M98A	1	max	641.239	3	172.1	4	585.107	4	.003	2	0	3	.002	3
942			min	-721.198	4	-116.863	3	-535.853	3	-.002	3	0	2	-.002	2
943		2	max	652.095	3	181.16	4	603.91	4	.003	2	.297	4	.058	3
944			min	-732.054	4	-107.804	3	-554.656	3	-.002	3	-.272	3	-.09	4
945		3	max	662.951	3	190.219	4	622.713	4	.003	2	.603	4	.11	3
946			min	-742.91	4	-125.763	1	-573.459	3	-.003	1	-.554	3	-.183	4

Envelope Member Section Forces (Continued)

Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[k-ft]	LC	y-y Momen...	LC	z-z Momen...	LC
947		4 max	346.148	2	58.738	3	416.202	3	.002	2	.241	4	.03	3
948		min	-436.58	1	-133.027	4	-491.733	4	-.003	1	-.204	3	-.063	4
949		5 max	347.62	3	67.797	3	397.399	3	.002	2	0	2	.002	2
950		min	-430.937	4	-123.968	4	-472.93	4	-.003	1	0	1	-.003	1
951	M99	1 max	379.272	4	128.266	3	489.871	3	.003	1	0	2	.002	2
952		min	-450.598	3	-74.77	4	-421.941	4	-.003	2	0	1	-.002	1
953		2 max	368.417	4	137.325	3	508.674	3	.003	1	.25	3	.033	4
954		min	-439.743	3	-65.711	4	-440.743	4	-.003	2	-.216	4	-.065	3
955		3 max	633.261	4	126.055	1	549.878	4	.003	1	.587	3	.103	4
956		min	-723.866	3	-185.981	3	-606.315	3	-.003	3	-.531	4	-.179	3
957		4 max	622.405	4	101.29	4	531.075	4	.002	4	.288	3	.055	4
958		min	-713.01	3	-176.921	3	-587.512	3	-.003	3	-.26	4	-.089	3
959		5 max	611.549	4	110.35	4	512.272	4	.002	4	0	4	.002	4
960		min	-702.154	3	-167.862	3	-568.709	3	-.003	3	0	3	-.002	3

Envelope AISC 14th(360-10): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
1	M9	PL3/8x4	.609	2.125	8	.170	3.896	y	5	3613.617	48600	.38	4.05	1...H1-1b
2	M7	PL3/8x4	.608	2.125	5	.170	3.896	y	6	3613.617	48600	.38	4.035	1...H1-1b
3	M5	PL3/8x4	.598	2.125	7	.173	3.542	y	9	3613.617	48600	.38	4.019	1...H1-1b
4	MP2C	PIPE 2.0	.462	4.917	4	.106	4.917		4	3485.189	32130	1.872	1.872	2...H1-1b
5	M68B	PIPE 2.0	.450	6.25	2	.099	2.734		4	6295.422	32130	1.872	1.872	2...H1-1b
6	MP2A	PIPE 2.0	.448	4.917	1	.091	4.917		3	3485.189	32130	1.872	1.872	2...H1-1b
7	MP2B	PIPE 2.0	.419	4.917	3	.104	4.917		2	3485.189	32130	1.872	1.872	2...H1-1b
8	M69B	PIPE 2.0	.400	6.25	3	.147	2.734		3	6295.422	32130	1.872	1.872	1...H1-1b
9	M67A	PIPE 2.0	.389	6.12	4	.134	2.734		4	6295.422	32130	1.872	1.872	1...H1-1b
10	M36	HSS4X4X4	.375	0	8	.133	2.177	z	4	115940...	139518	16.181	16.181	2...H1-1b
11	MP3A	PIPE 2.0	.374	4.938	9	.190	.5		2	6195.892	32130	1.872	1.872	1.8H1-1b
12	M35	HSS4X4X4	.363	0	6	.103	2.177	z	1	115940...	139518	16.181	16.181	2...H1-1b
13	M34	HSS4X4X4	.362	0	6	.093	2.177	z	2	115940...	139518	16.181	16.181	2...H1-1b
14	MP3C	PIPE 2.0	.337	4.938	2	.221	.5		3	6195.892	32130	1.872	1.872	1...H1-1b
15	MP3B	PIPE 2.0	.313	4.938	1	.155	4.938		1	6195.892	32130	1.872	1.872	1...H1-1b
16	MP1B	PIPE 2.0	.312	4.938	2	.215	.5		4	6195.892	32130	1.872	1.872	1...H1-1b
17	MP1C	PIPE 2.0	.306	4.938	4	.147	4.938		1	6195.892	32130	1.872	1.872	1...H1-1b
18	MP1A	PIPE 2.0	.276	4.938	3	.184	.5		2	6195.892	32130	1.872	1.872	1...H1-1b
19	M58B	PL1/4x4	.254	0	8	.045	0	y	1	31343....	32400	.169	2.644	1...H1-1b
20	M8	PL1/4x4	.253	0	6	.057	0	y	4	31343....	32400	.169	2.648	1...H1-1b
21	M55C	PL1/4x4	.251	0	5	.101	.225	y	9	31343....	32400	.169	2.631	1 H1-1b
22	M66	PL1/4x4	.250	.225	6	.055	.225	y	3	31343....	32400	.169	2.634	1...H1-1b
23	M64	PL1/4x4	.249	.225	7	.042	.225	y	9	31343....	32400	.169	2.631	1 H1-1b
24	M68A	PL1/4x4	.244	.225	5	.038	.225	y	2	31343....	32400	.169	2.645	1...H1-1b
25	M68	HSS3.500x0.165	.238	4.067	5	.151	4.067		7	44444....	54455....	4.821	4.821	1...H1-1b
26	M54B	HSS3.500x0.165	.237	4.067	6	.150	4.067		6	44444....	54455....	4.821	4.821	1...H1-1b
27	M1	HSS3.500x0.165	.236	4.067	8	.148	4.067		8	44444....	54455....	4.821	4.821	1...H1-1b
28	M69	HSS3.500x0.165	.222	2.131	9	.144	2.131		6	44444.19	54455....	4.821	4.821	1...H1-1b
29	M55B	HSS3.500x0.165	.218	2.131	8	.146	2.131		5	44444.19	54455....	4.821	4.821	2...H1-1b
30	M16	HSS3.500x0.165	.215	2.131	7	.144	2.131		7	44444.19	54455....	4.821	4.821	2...H1-1b
31	M67	PL1/4x4	.199	0	1	.017	.565	y	2	26579....	32400	.169	2.68	1...H1-1b
32	M69A	PL1/4x4	.178	.565	5	.086	.565	y	9	26579....	32400	.169	2.497	1...H1-1b
33	M65	PL1/4x4	.174	.565	7	.013	.565	y	3	26579....	32400	.169	2.514	1...H1-1b

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
34	M12	L2x2x3	.081	2.916	7	.014	2.916	z	6	25304....	32490	.775	1.718	2...	H2-1
35	M15	L2x2x3	.081	2.916	9	.013	2.916	y	8	25304....	32490	.775	1.654	1...	H2-1
36	M10	L2x2x3	.080	2.916	6	.014	2.916	z	5	25304....	32490	.775	1.708	2...	H2-1
37	M14	L2x2x3	.078	2.916	5	.014	2.916	z	7	25304....	32490	.775	1.721	2...	H2-1
38	M11	L2x2x3	.073	2.916	6	.013	2.916	y	6	25304....	32490	.775	1.708	2...	H2-1
39	M13	L2x2x3	.072	2.916	7	.013	2.916	y	8	25304....	32490	.775	1.715	2...	H2-1

Envelope AISI S100-10: LRFD Cold Formed Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shea...	Loc[ft]	Dir	LC	phi*Pn...	phi*Tn[...	phi*Mn...	phi*Mn...	Cb	Cmyy	Cmzz	Eqn
1	M91	5.44CU3.7x...	.039	2.041	1	.015	3.998	z	4	52449...	67775.4	3.114	9.167	1.136	1	1	C5.2...
2	M92	5.44CU3.7x...	.039	1.957	1	.015	0	z	3	52449...	67775.4	3.114	9.167	1.136	1	1	C5.2...
3	M94	5.44CU3.7x...	.032	1.999	1	.018	0	z	2	52449...	67775.4	3.172	10.187	1.136	1	1	C5.1....
4	M95	5.44CU3.7x...	.044	1.999	4	.016	3.998	y	1	52449...	67775.4	3.114	9.167	1.136	1	1	C5.2....
5	M97	5.44CU3.7x...	.044	1.999	3	.016	3.998	y	1	52449...	67775.4	3.114	9.167	1.136	1	1	C5.2....
6	M98	5.44CU3.7x...	.032	1.999	1	.017	3.998	z	2	52449...	67775.4	3.172	10.187	1.136	1	1	C5.1....
7	M97A	6CU6.5X0250	.071	1	2	.015	1	z	2	97488...	13178...	10.485	18.49	1.328	.85	.85	C5.1....
8	M98A	6CU6.5X0250	.062	1	4	.016	1	z	4	97488...	13178...	10.485	18.49	1.386	.85	.85	C5.1....
9	M99	6CU6.5X0250	.060	1	3	.016	1	z	3	97488...	13178...	10.485	18.49	1.378	.85	.85	C5.1....

Envelope AA ADM1-10: ASD - Building Aluminum Code Checks

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	Pnc/O...	Pnt/Om...	Mny/O...	Mnz/O...	Vny/O...	Vnz/O...	Cb	Eqn
No Data to Print ...																

EXHIBIT 9



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RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT111949A

Nextel Tower Extension
206 Everett Road
Easton, Connecticut 06612

March 4, 2021

EBI Project Number: 6221000872

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	15.59%



March 4, 2021

T-Mobile

Attn: Jason Overbey, RF Manager

35 Griffin Road South

Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT111949A - Nextel Tower Extension

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **206 Everett Road in Easton, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

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

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 206 Everett Road in Easton, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower. For power density calculations, the broadcast footprint of the AIR6449 antenna has been considered. Due to the beamforming nature of this antenna, the actual beam locations vary depending on demand and are narrow in nature. Using the broadcast footprint accounts for the potential location of beams at any given time.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.
- 3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 5) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.



- 6) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 7) 1 LTE channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.
- 8) 1 NR channel (BRS Band - 2500 MHz) was considered for each sector of the proposed installation. This Channel has a transmit power of 120 Watts.
- 9) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 10) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 11) The antennas used in this modeling are the RFS APX16DWV-16DWV-S-E-A20 for the 2100 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector A, the RFS APX16DWV-16DWV-S-E-A20 for the 2100 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector B, the RFS APX16DWV-16DWV-S-E-A20 for the 2100 MHz channel(s), the RFS APXVAALL24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.



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- 12) The antenna mounting height centerline of the proposed antennas is 138 feet above ground level (AGL).
- 13) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 14) All calculations were done with respect to uncontrolled / general population threshold limits.



T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APX16DWV-16DWV-S-E-A20	Make / Model:	RFS APX16DWV-16DWV-S-E-A20	Make / Model:	RFS APX16DWV-16DWV-S-E-A20
Frequency Bands:	2100 MHz	Frequency Bands:	2100 MHz	Frequency Bands:	2100 MHz
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	138 feet	Height (AGL):	138 feet	Height (AGL):	138 feet
Channel Count:	2	Channel Count:	2	Channel Count:	2
Total TX Power (W):	120 Watts	Total TX Power (W):	120 Watts	Total TX Power (W):	120 Watts
ERP (W):	4,668.54	ERP (W):	4,668.54	ERP (W):	4,668.54
Antenna AI MPE %:	0.96%	Antenna BI MPE %:	0.96%	Antenna CI MPE %:	0.96%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	RFS APXVAALL24_43-U-NA20	Make / Model:	RFS APXVAALL24_43-U-NA20	Make / Model:	RFS APXVAALL24_43-U-NA20
Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.65 dBd / 15.45 dBd / 15.45 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.65 dBd / 15.45 dBd / 15.45 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.65 dBd / 15.45 dBd / 15.45 dBd
Height (AGL):	138 feet	Height (AGL):	138 feet	Height (AGL):	138 feet
Channel Count:	11	Channel Count:	11	Channel Count:	11
Total TX Power (W):	440 Watts	Total TX Power (W):	440 Watts	Total TX Power (W):	440 Watts
ERP (W):	12,569.87	ERP (W):	12,569.87	ERP (W):	12,569.87
Antenna A2 MPE %:	3.78%	Antenna B2 MPE %:	3.78%	Antenna C2 MPE %:	3.78%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz
Gain:	17.3 dBd / 17.3 dBd	Gain:	17.3 dBd / 17.3 dBd	Gain:	17.3 dBd / 17.3 dBd
Height (AGL):	138 feet	Height (AGL):	138 feet	Height (AGL):	138 feet
Channel Count:	2	Channel Count:	2	Channel Count:	2
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	12,888.76	ERP (W):	12,888.76	ERP (W):	12,888.76
Antenna A3 MPE %:	2.66%	Antenna B3 MPE %:	2.66%	Antenna C3 MPE %:	2.66%



Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	7.40%
Sprint	2.13%
AT&T	1.91%
Verizon	3.87%
Nextel	0.28%
Site Total MPE % :	15.59%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	7.40%
T-Mobile Sector B Total:	7.40%
T-Mobile Sector C Total:	7.40%
Site Total MPE % :	15.59%

T-Mobile Maximum MPE Power Values (Sector A)

T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 2100 MHz LTE	2	2334.27	138.0	9.63	2100 MHz LTE	1000	0.96%
T-Mobile 600 MHz LTE	2	591.73	138.0	2.44	600 MHz LTE	400	0.61%
T-Mobile 600 MHz NR	1	1577.94	138.0	3.26	600 MHz NR	400	0.81%
T-Mobile 700 MHz LTE	2	695.22	138.0	2.87	700 MHz LTE	467	0.61%
T-Mobile 1900 MHz GSM	4	1052.26	138.0	8.68	1900 MHz GSM	1000	0.87%
T-Mobile 1900 MHz LTE	2	2104.51	138.0	8.68	1900 MHz LTE	1000	0.87%
T-Mobile 2500 MHz LTE	1	6444.38	138.0	13.30	2500 MHz LTE	1000	1.33%
T-Mobile 2500 MHz NR	1	6444.38	138.0	13.30	2500 MHz NR	1000	1.33%
Total:							7.40%

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	7.40%
Sector B:	7.40%
Sector C:	7.40%
T-Mobile Maximum MPE % (Sector A):	7.40%
Site Total:	15.59%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **15.59%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

EXHIBIT 10