



10 INDUSTRIAL AVE,
SUITE 3
MAHWAH NJ 07430

PHONE: 201.684.0055
FAX: 201.684.0066

July 31, 2019

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

RE: Notice of Exempt Modification
118 Wintechog Hill Road, North Stonington, CT 06359
Latitude: 41.4598438800
Longitude: -71.92733500000
T-Mobile Site#: CT11266A – L600

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 225-foot level of the existing 251-foot self-support tower at 118 Wintechog Hill Road, North Stonington, CT. The 251-foot self-support tower and property is owned and operated by American Tower Corporation. T-Mobile now intends to replace three (3) of its existing antennas with three (3) new 600/700 MHz antennas. The new antennas will be installed at the same 225-foot level of the tower. Mount modifications are also required as detailed in the enclosed mount analysis.

Planned Modifications:

Tower:

Remove

(3) KRY 112 144/1
(6) 1-5/8" coax

Remove and Replace:

(3) LNX-6515DS-A1M (remove) – Add (3) APXVAARR24_43-U-NA20 600/700 MHz
(3) RRUS11 B12 (remove) – Add (3) Ericsson Radio 4449 B12 B71

Install New:

(3) 1-5/8" hybrid

Existing to Remain:

(3) AIR 21 B4A B2P
(3) AIR 21 B4P B2A
(1) 1-5/8" hybrid
(6) 1-5/8" coax

Ground:

Install New: Equipment inside existing 6131 cabinet

This tower facility was originally approved by the Siting Council in Docket No. 91A on April 30, 1990. The proposed modification complies with the original approval.

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 First Selectman -Michael Urgo, Elected Official, and Juliet Hodge, Planning Development and Zoning Official for the Town of North Stonington, as well as the owner.

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

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,

Kyle Richers

Transcend Wireless

Cell: 908-447-4716

Email: krichers@transcendwireless.com

Attachments

cc: Michael Urgo – Town of North Stonington First Selectman

Juliet Hodge– Town of North Stonington Planning Development and Zoning Official

American Tower – Owner

UPS Internet Shipping: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. GETTING YOUR SHIPMENT TO UPS

Customers with a Daily Pickup

Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the 'Find Locations' Quick link at ups.com.

Schedule a same day or future day Pickup to have a UPS driver pickup all of your Internet Shipping packages.

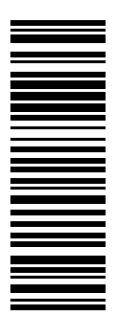
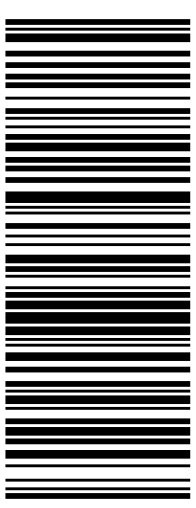

Hand the package to any UPS driver in your area.

UPS Access Point™
THE UPS STORE
115 FRANKLIN TPKE
MAHWAH ,NJ 07430

UPS Access Point™
THE UPS STORE
120 E MAIN ST
RAMSEY ,NJ 07446

UPS Access Point™
POSTNET NY137
74 LAFAYETTE AVE
SUFFERN ,NY 10901

FOLD HERE

<p>NEIL GUERRIERO 3473040176 TRANSCEND WIRELESS 10 INDUSTRIAL AVE MAHWAH NJ 07430</p> <p>SHIP TO: CONTACTS MANAGEMENT AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053</p>	<p>1 OF 1</p> <p>1 LBS</p>	<p>MA 018 9-04</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z V25 742 03 9201 2736</p> 	<p>BILLING: P/P</p>	 <p>Reference#1: CT11266A Reference#2: UPS-ATC</p> <p><small>UPS 21.5.22. WNTNVS0 12.0A 04/2019</small></p>
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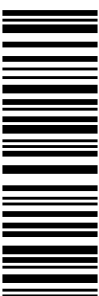
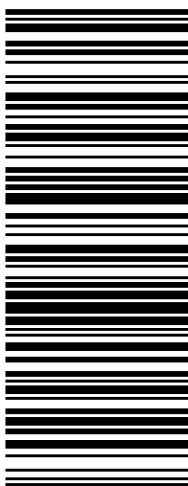

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SUFFERN ,NY 10901

FOLD HERE

<p>NEIL GUERRIERO 3473040176 TRANSCEND WIRELESS 10 INDUSTRIAL AVE MAHWAH NJ 07430</p> <p>SHIP TO: MICHAEL A. URGO TOWN OF NORTH STONINGTON 40 MAIN STREET NORTH STONINGTON CT 06359-1612</p>	<p>1 LBS</p> <p>1 OF 1</p>	<p>CT 063 0-02</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z V25 742 03 9141 2752</p> 	<p>BILLING: P/P</p>	 <p>UPS 21.5.22. WINTNVS0 12.0A 04/2019</p> <p>Reference#1: CT11266A Reference#2: UPS-Mayor</p>
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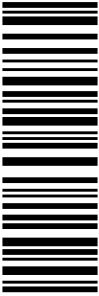
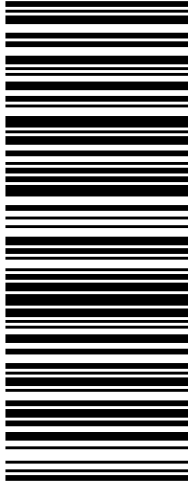

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POSTNET NY137
74 LAFAYETTE AVE
SUFFERN ,NY 10901

FOLD HERE

<p>NEIL GUERRIERO 3473040176 TRANSCEND WIRELESS 10 INDUSTRIAL AVE MAHWAH NJ 07430</p> <p>SHIP TO: JULIET HODGE TOWN OF NORTH STONINGTON OLD TOWN HALL 40 MAIN STREET NORTH STONINGTON CT 06359-1612</p>	<p style="text-align: right;">1 OF 1</p> <p style="text-align: right;">1 LBS</p> <p style="text-align: center;">CT 063 0-02</p> 	<p style="text-align: center;">UPS GROUND</p> <p>TRACKING #: 1Z V25 742 03 9114 9618</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference# 1: CT11266A Reference# 2: UPS-Planner</p>  <p style="font-size: small; text-align: center;">UPS 21.5.24- WNTNVS0 15.04.07/2019</p>
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Town of North Stonington, CT

Property Listing Report

Map Block Lot

93-4392

Account

G6195000

Property Information

Property Location	118C WINTECHOG HL
Owner	AMERICAN TOWER SYSTEMS INC
Co-Owner	
Mailing Address	P O BOX 723597 ATLANTA GA 31139
Land Use	4310 TEL REL TW
Land Class	I
Zoning Code	R80
Census Tract	7071
Sub Lot	
Neighborhood	0500
Acreage	0.98
Utilities	
Lot Setting/Desc	Rural Above Street
Survey Map	
Additional Info	

Photo



Sketch

Primary Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Floors	
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

Exterior Walls	
Interior Walls	
Heating Type	
Heating Fuel	
AC Type	
Gross Bldg Area	
Total Living Area	



Town of North Stonington, CT

Property Listing Report

Map Block Lot **93-4392**

Account

G6195000

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

Item	Appraised	Assessed
Buildings	0	0
Extras	0	0
Outbuildings	171500	120050
Land	115100	80570
Total	286600	200620

Outbuilding and Extra Items

Type	Description
FENCE-6' CHAIN	370.00 L.F.
COMMUNIC BLD	308.00 S.F.
COMMUNIC BLD	308.00 S.F.
COMMUNIC BLD	575.00 S.F.
COMMUNIC BLD	575.00 S.F.
GENERATOR	1.00 UNITS

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		0

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
AMERICAN TOWER SYSTEMS INC	112/ 98	11/1/1996	100000
GOGUEN GERALD A	69/ 531	2/6/1987	27500



TOWN OF NORTH STONINGTON GEOGRAPHIC & PROPERTY INFORMATION NETWORK



OLD TOWN HALL
40 MAIN STREET
NORTH STONINGTON, CT 06359
E-MAIL: GENERAL INFORMATION

❖ MAIN MENU

[GIS HOME](#)

[➤ GIS PROPERTY MAP SEARCH](#)

[TOWN WIDE MAP GALLERY](#)

[TOWN GRID MAPS](#)

[INTERACTIVE MAPPING](#)

[HELP](#)

❖ SUMMARY PARCEL INFORMATION & MAP DOCUMENTS

Parcel No

93-4392

Unique ID

175

Account

G6195000

Owner

AMERICAN TOWER
SYSTEMS INC

Location

118C WINTECHOG HL

MAILING ADDRESS

P O BOX 723597
ATLANTA GA 31139



GIS PARCEL MAPS UPDATED

October 1st

PROPERTY INFO DATA UPDATED

Daily

CURRENT PARCEL COUNT

3,202 +/-



Click on the BING logo to go to a Big Map!

Parcel Documents

[Create Parcel Map](#)

[Property Summary Card](#)

PDF documents open in new window

Full Size Maps

[View Assessors Map](#)

Interactive GIS Map of Property

[GO TO VIRTUAL EARTH BIRDS EYE!](#)

[GO TO INTERACTIVE MAP](#)

PARCEL VALUATIONS

	Appraised Value	Assessed Value
Buildings	0	0
Outbuildings	171500	120050
Extra Features	0	0
Land	115100	80570
TOTAL:	286600	200620

PROPERTY INFORMATION

Land Acres	0.98
Land Use	TEL REL TW
Land Class	I
Zoning	R80
Census Tract	7071
Neighborhood	0500
Lot Description	Above Street
Lot Setting	Rural
Lot Utilities	
Street Description	Unpaved
Year Built	0
Year Improved	

SALE INFORMATION

Sale Date	11/1/1996
Sale Price	1000000
Book / Page	112/ 98

BUILDING AREA

Gross Building Area	
Total Living Area	0

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DOCKET NO. 91A - SNET Cellular, Inc.,
Amended Certificate of Environmental
Compatibility and Public Need for
cellular telephone antennas and
associated equipment in the Town
of North Stonington, Connecticut.

Connecticut

Siting

Council

April 30, 1990

DECISION AND ORDER

Pursuant to the foregoing Findings of Fact, Opinion, and record in Docket No. 91, the Connecticut Siting Council hereby directs that an amended Certificate of Environmental Compatibility and Public Need as provided by Section 16-501 of the General Statutes of Connecticut (CGS) be issued to SNET Cellular, Inc., for the construction, operation, and maintenance of a cellular telephone facility and associated equipment off of Wintechog Hill Road in the Town of North Stonington, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in Docket No. 91, with changes as specified in this amendment.

The Certificate Holder shall abide by all of the conditions issued by the Council in its Decision and Order for Docket No. 91, dated March 22, 1988.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of this Decision and Order be served on each person listed below, and that a notice of issuance shall be published in the New London Day.

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

The Parties to this proceeding are:

SNET Cellular, Inc.
555 Long Wharf Drive
New Haven, CT 06511

(Applicant)

Peter J. Tyrrell
Senior Attorney
227 Church Street
New Haven, CT 06510

(Its Attorney)


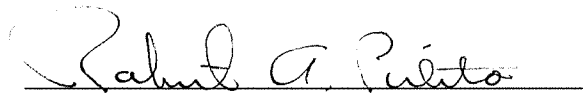

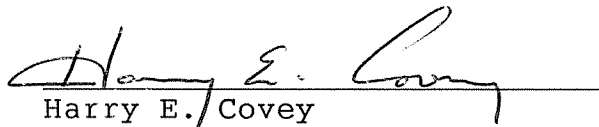

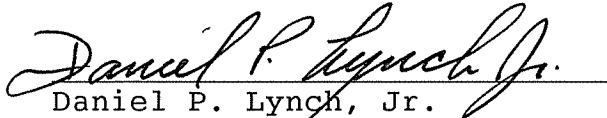

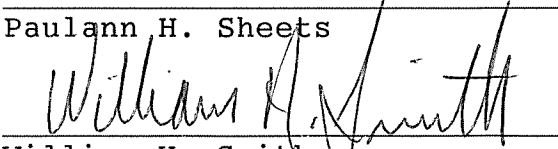

RKE/bd

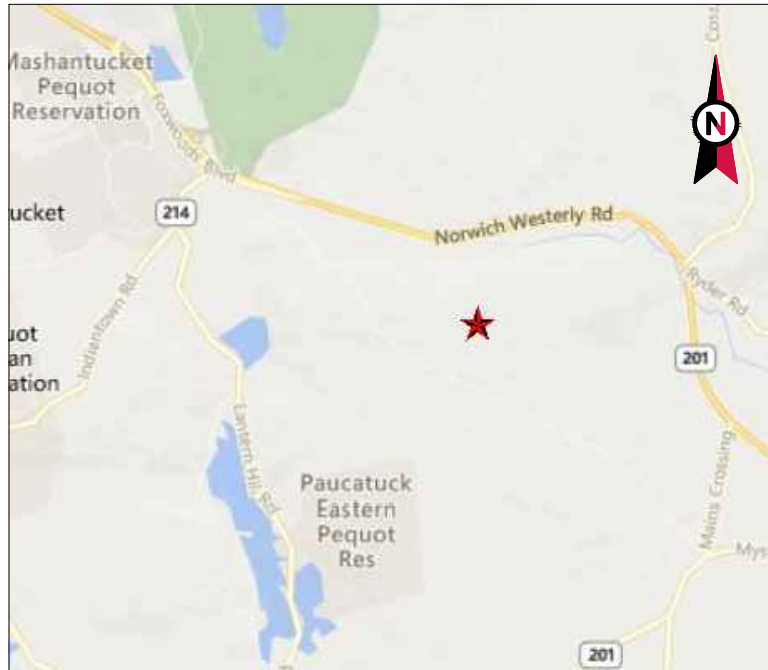
4339E

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in Docket No. 91A - SNET Cellular, Inc., Amended Certificate for Environmental Compatibility and Public Need for cellular telephone antennas and associated equipment in the Town of North Stonington, Connecticut or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 30th day of April, 1990.

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



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: NORTH STONINGTON CT
 ATC SITE NUMBER: 6260
 T-MOBILE SITE ID: CT11266A
 SITE ADDRESS: 118C WINTECHOG HILL RD
 N. STONINGTON, CT 06359



LOCATION MAP

**T-MOBILE L600 ANTENNA AMENDMENT
 67D02C CONFIGURATION**

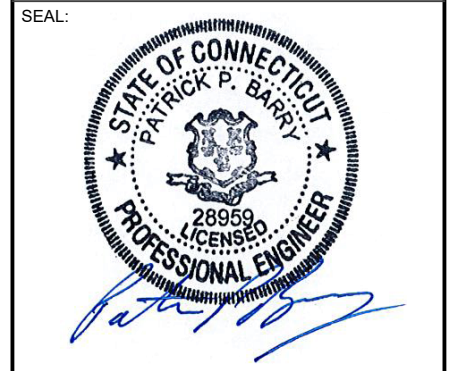
BIRD WATCH SITE:
 PLEASE CONTACT BIRD.WATCH@AMERICANTOWER.COM OR
 AMERICAN TOWER NOC AT 877-518-6937 FOR ASSISTANCE

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

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

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LR	06/18/19
1	MA UPDATE	LR	07/25/19

ATC SITE NUMBER:
6260
 ATC SITE NAME:
NORTH STONINGTON CT
 SITE ADDRESS:
 118C WINTECHOG HILL RD
 N. STONINGTON, CT 06359



Authorized by "EOR"
 Jul 25 2019 12:54 PM
T-Mobile design

DRAWN BY:	LR
APPROVED BY:	PPB
DATE DRAWN:	06/18/19
ATC JOB NO:	12927122

TITLE SHEET
 SHEET NUMBER:
G-001
 REVISION:
1

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 118C WINTECHOG HILL RD N. STONINGTON, CT 06359 COUNTY: NEW LONDON <u>1A CERTIFICATE SUMMARY:</u> LATITUDE: 41° 27' 35.4" N LONGITUDE: 71° 55' 38.4" W GROUND ELEVATION: 448.1' AMSL TOWER HEIGHT: 251' AGL HIGHEST APPURTENANCE: 268.2' AGL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: REMOVE (3) PANELS, (3) TTAs, (3) RRU's, (3) T-ARMS, AND (6) 1-5/8" COAX CABLES INSTALL (3) NEW PANELS, (3) RRU's, (3) SECTOR MOUNTS, AND (3) 1-5/8" HYBRID CABLES EXISTING (6) PANELS, (1) 1-5/8" HYBRID CABLES, AND (6) 1-5/8" COAX CABLES TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518 <u>PROPERTY OWNER:</u> SNET CELLULAR INC / SBC COMMUNICATIONS INC 175 EAST HOUSTON ST SAN ANTONIO, TEXAS 78205	PROJECT NOTES 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	R-601 SUPPLEMENTAL R-602 SUPPLEMENTAL R-603 SUPPLEMENTAL R-604 SUPPLEMENTAL	G-001	TITLE SHEET	1	07/25/19
<u>UTILITY COMPANIES</u> POWER COMPANY: NORTHEAST UTILITIES PHONE: (800) 286-2000 TELEPHONE COMPANY: ATT PHONE: (800) 288-2020	PROJECT LOCATION DIRECTIONS TAKE I-395 TO EXIT 85 TO RTE 164 SOUTH; RIGHT ON RT 2 EAST. THEN RIGHT ON WINTECHOG HILL RD. LEFT AT THE BUSINESS ENTRANCE OF GREENHOUSE. & FOLLOW THE DIRT RD TO THE TOWER		G-002	GENERAL NOTES	0	06/18/19	LR
			C-101	DETAILED SITE PLAN & TOWER ELEVATION	1	07/25/19	LR
			C-501	ANTENNA INFORMATION & SCHEDULE	1	07/25/19	LR
			E-501	GROUNDING DETAILS	0	06/18/19	LR
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
			R-603	SUPPLEMENTAL			
			R-604	SUPPLEMENTAL			

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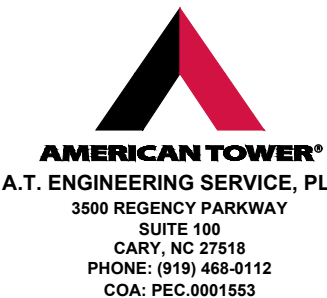
GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC MASTER SPECIFICATIONS.
2. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
4. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
5. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
6. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
7. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
9. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE WIRELESS REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE WIRELESS REP PRIOR TO PROCEEDING.
11. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE WIRELESS REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
12. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE WIRELESS CONSTRUCTION MANAGER.
13. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
14. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE WIRELESS REP IMMEDIATELY.
15. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
16. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
17. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
18. CONTRACTOR SHALL FURNISH T-MOBILE WIRELESS WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
19. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE WIRELESS REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
20. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
21. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE WIRELESS SPECIFICATIONS AND REQUIREMENTS.
22. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
23. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
24. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
25. CONTRACTOR SHALL NOTIFY T-MOBILE WIRELESS REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.

27. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
28. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE WIRELESS REP. ANY WORK FOUND BY THE T-MOBILE WIRELESS REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
29. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
 - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
 - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.



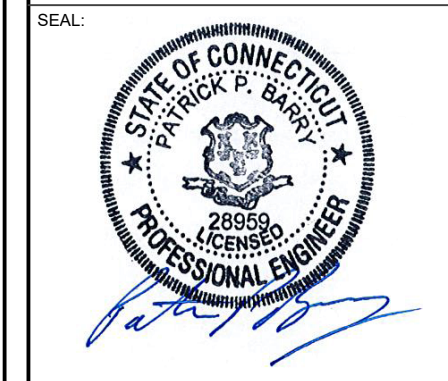
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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	LR	06/18/19

ATC SITE NUMBER:
6260

ATC SITE NAME:
NORTH STONINGTON CT

SITE ADDRESS:
118C WINTCHOG HILL RD
N. STONINGTON, CT 06359



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APPROVED BY:	PPB
DATE DRAWN:	06/18/19
ATC JOB NO:	12927122

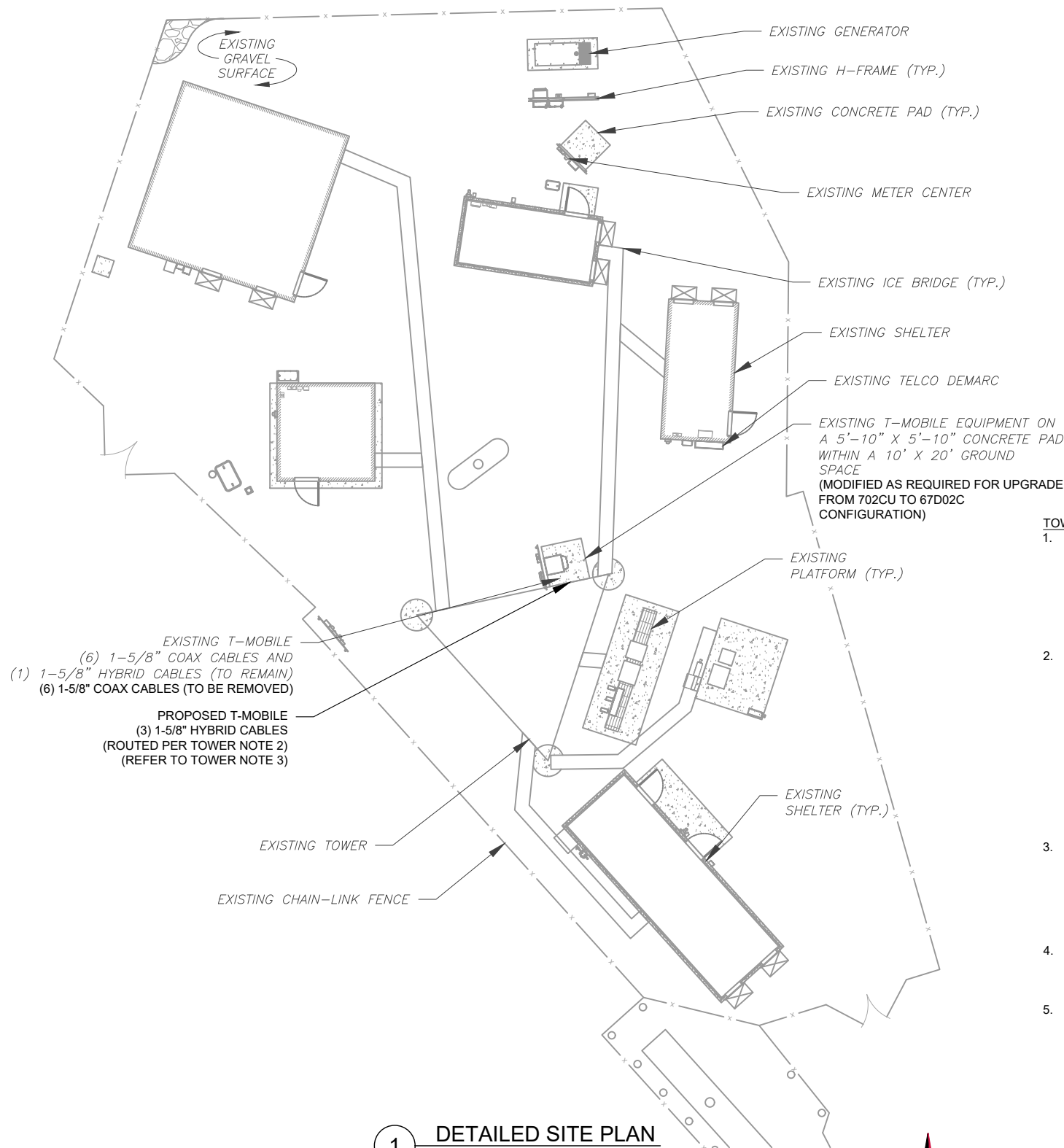
GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

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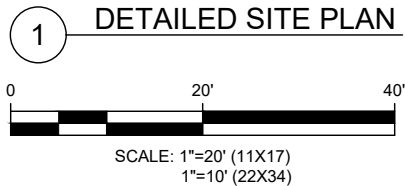
SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

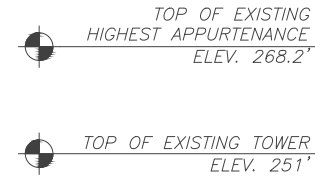


EXISTING T-MOBILE
 (6) 1-5/8" COAX CABLES AND
 (1) 1-5/8" HYBRID CABLES (TO REMAIN)
 (6) 1-5/8" COAX CABLES (TO BE REMOVED)

PROPOSED T-MOBILE
 (3) 1-5/8" HYBRID CABLES
 (ROUTED PER TOWER NOTE 2)
 (REFER TO TOWER NOTE 3)

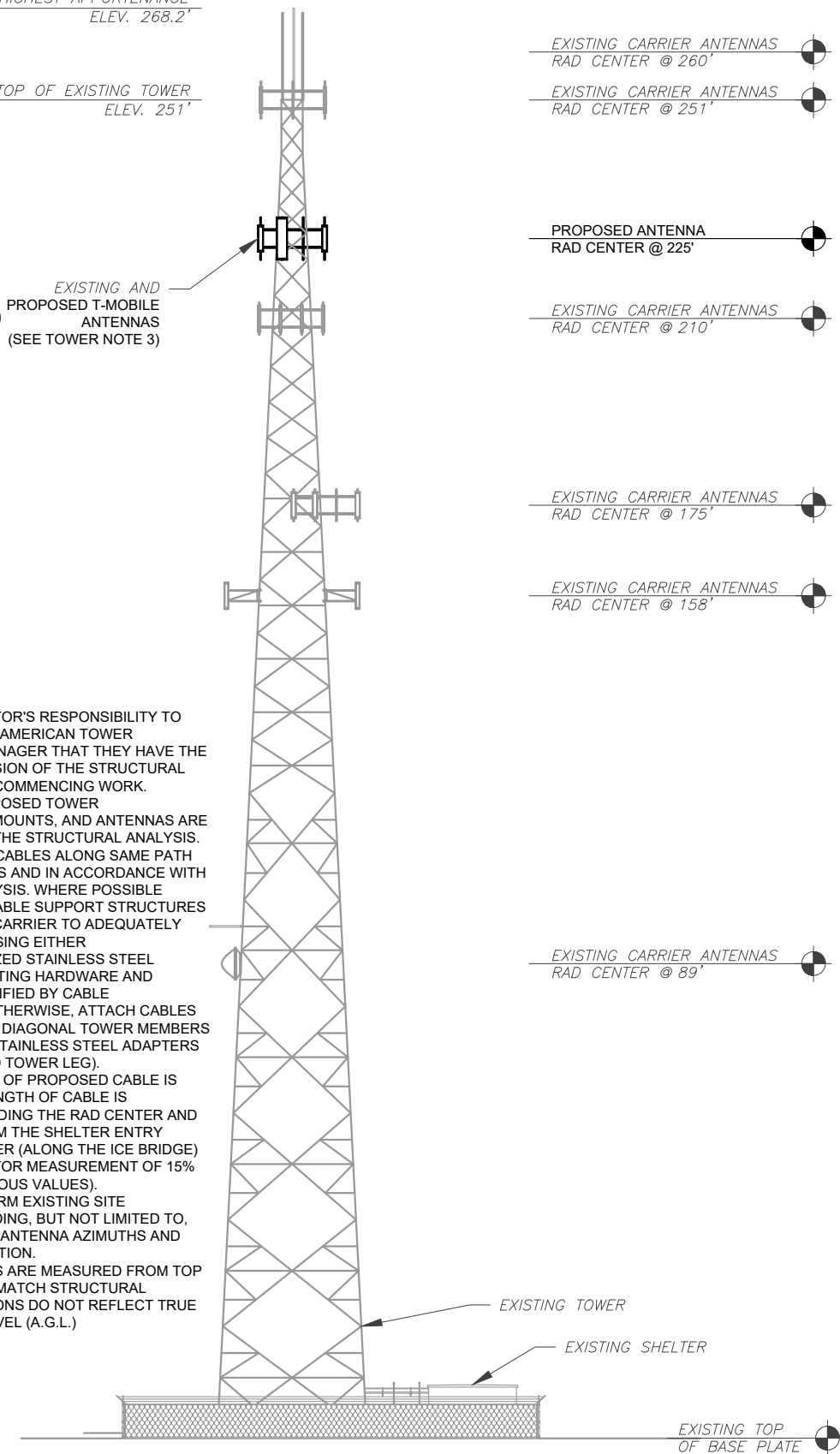


PER MOUNT ANALYSIS COMPLETED BY CLS ENGINEERING, DATED 07-03-19, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT



TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
3. ESTIMATED LENGTH OF PROPOSED CABLE IS 270'. ESTIMATED LENGTH OF CABLE IS CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES).
4. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA HEIGHTS, ANTENNA AZIMUTHS AND MOUNT CONFIGURATION.
5. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



2 TOWER ELEVATION
 SCALE: NOT TO SCALE

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 SUITE 100
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0	FOR CONSTRUCTION	LR	06/18/19
1	MA UPDATE	LR	07/25/19

ATC SITE NUMBER:
6260

ATC SITE NAME:
NORTH STONINGTON CT

SITE ADDRESS:
 118C WINTCHOG HILL RD
 N. STONINGTON, CT 06359

SEAL:

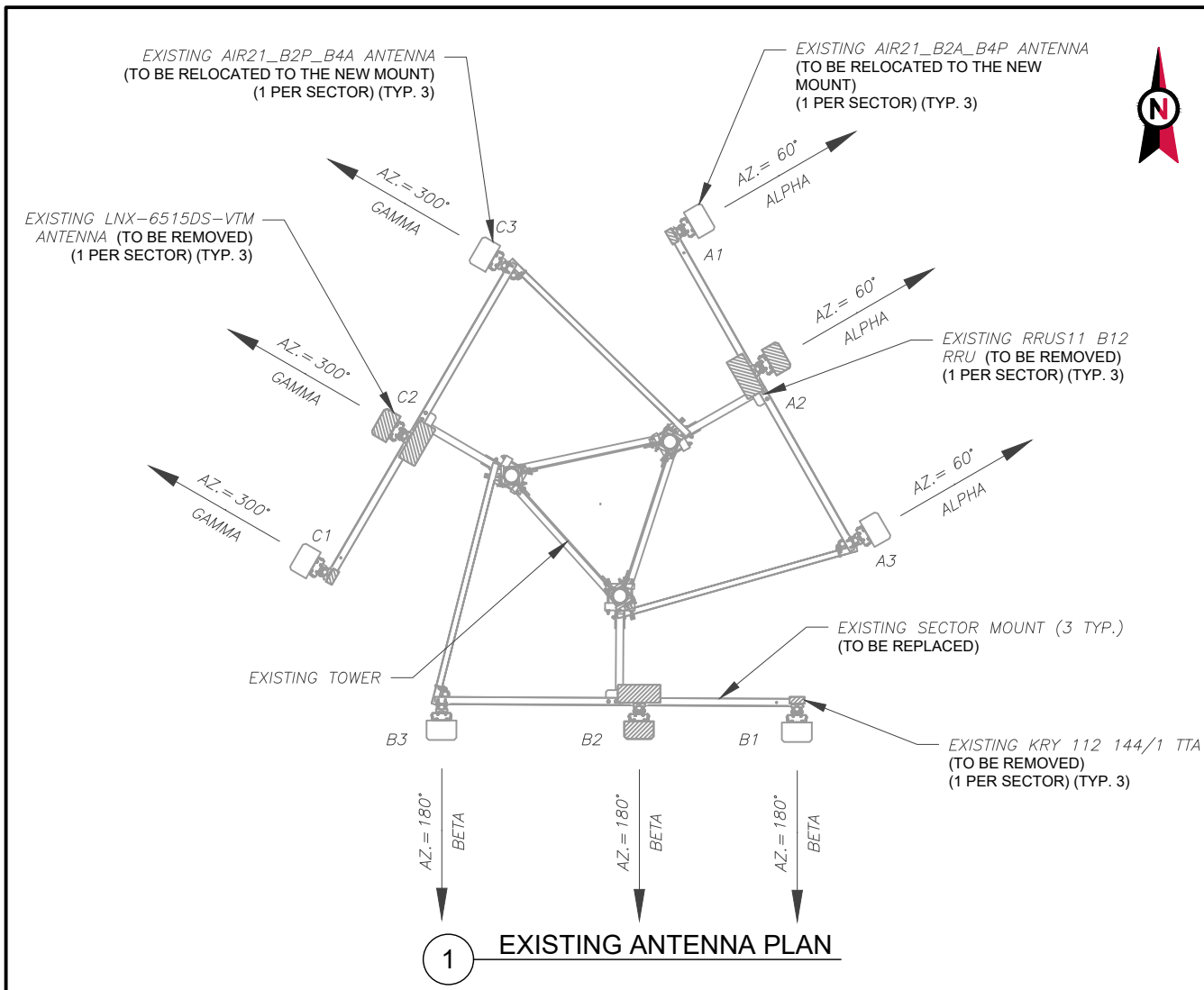
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DATE DRAWN:	06/18/19
ATC JOB NO:	12927122

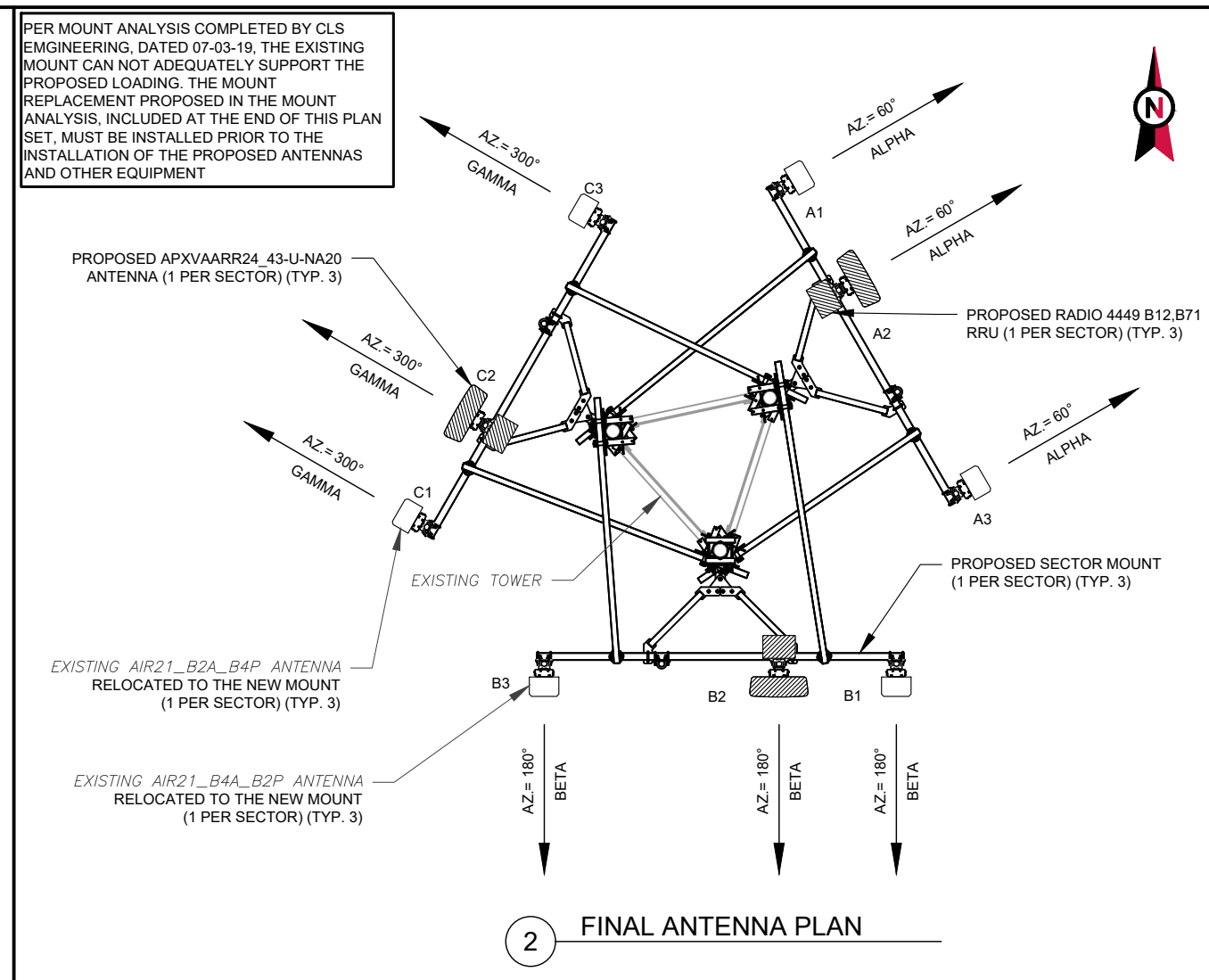
DETAILED SITE PLAN & TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-101	1

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1 EXISTING ANTENNA PLAN



2 FINAL ANTENNA PLAN

PER MOUNT ANALYSIS COMPLETED BY CLS ENGINEERING, DATED 07-03-19, THE EXISTING MOUNT CAN NOT ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT REPLACEMENT PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT

EXISTING ANTENNA / EQUIPMENT SCHEDULE							
SECTOR	ANT.	MANUFACTURER (MODEL #)	RAD CENTER	AZIMUTH (TN)	MECH. D-TILT	ELEC. D-TILT	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	A1	AIR 21 B2A B4P	225'-0"	60°	-	2'	KRY 112 144/1
ALPHA	A2	LNx-6515DS-VTM	225'-0"	60°	0°	2'	RRUS11 B12
ALPHA	A3	AIR 21 B4A B2P	225'-0"	60°	-	2'	-
BETA	B1	AIR 21 B2A B4P	225'-0"	180°	-	2'	KRY 112 144/1
BETA	B2	LNx-6515DS-VTM	225'-0"	180°	0°	2'	RRUS11 B12
BETA	B3	AIR 21 B4A B2P	225'-0"	180°	-	2'	-
GAMMA	C1	AIR 21 B2A B4P	225'-0"	300°	-	2'	KRY 112 144/1
GAMMA	C2	LNx-6515DS-VTM	225'-0"	300°	0°	2'	RRUS11 B12
GAMMA	C3	AIR 21 B4A B2P	225'-0"	300°	-	2'	-

- NOTES
- BASED ON APPROVED ATC APPLICATION 12927122, DATED 04/02/19. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 - ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIG OR MOUNT CONFIG. CONTRACTOR TO VERIFY MOUNT CONFIG HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (EQUIP) (I.E. CLEARANCES, MOUNT PIPE, SUFFICIENT LENGTH, ETC.) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
 - ALL PROPOSED EQUIP INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH ATC'S CM.
 - CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 - POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).

FINAL ANTENNA / EQUIPMENT SCHEDULE							
SECTOR	ANT.	MANUFACTURER (MODEL #)	RAD CENTER	AZIMUTH (TN)	MECH. D-TILT	ELEC. D-TILT	ADDITIONAL TOWER MOUNTED EQUIPMENT
ALPHA	A1	AIR 21 B2A B4P	225'-0"	60°	0°	2'	-
ALPHA	A2	APXVAARR24_43-U-NA20	225'-0"	60°	0°	-	RADIO 4449 B12,B71
ALPHA	A3	AIR 21 B4A B2P	225'-0"	60°	0°	2'	-
BETA	B1	AIR 21 B2A B4P	225'-0"	180°	0°	2'	-
BETA	B2	APXVAARR24_43-U-NA20	225'-0"	180°	0°	-	RADIO 4449 B12,B71
BETA	B3	AIR 21 B4A B2P	225'-0"	180°	0°	2'	-
GAMMA	C1	AIR 21 B2A B4P	225'-0"	300°	0°	2'	-
GAMMA	C2	APXVAARR24_43-U-NA20	225'-0"	300°	0°	-	RADIO 4449 B12,B71
GAMMA	C3	AIR 21 B4A B2P	225'-0"	300°	0°	2'	-

CURRENT FIBER DISTRIBUTION/OVP BOX		CURRENT CABLING SUMMARY			STATUS ABBREVIATIONS		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS	RMV: TO BE REMOVED	RMN: TO REMAIN	REL: TO BE RELOCATED
-	-	(6) 1-5/8"	(1) 1-5/8"	RMN	DSC: TO BE DISCONNECTED & REMAIN	ADD: TO BE ADDED	
-	-	(6) 1-5/8"	-	RMV			

3 ANTENNA SCHEDULE

PROPOSED FIBER DISTRIBUTION/OVP BOX		PROPOSED CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	-	(3) 1-5/8"	ADD
-	-	(6) 1-5/8"	(1) 1-5/8"	RMN

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0	FOR CONSTRUCTION	LR	06/18/19
1	MA UPDATE	LR	07/25/19

ATC SITE NUMBER:
6260

ATC SITE NAME:
NORTH STONINGTON CT

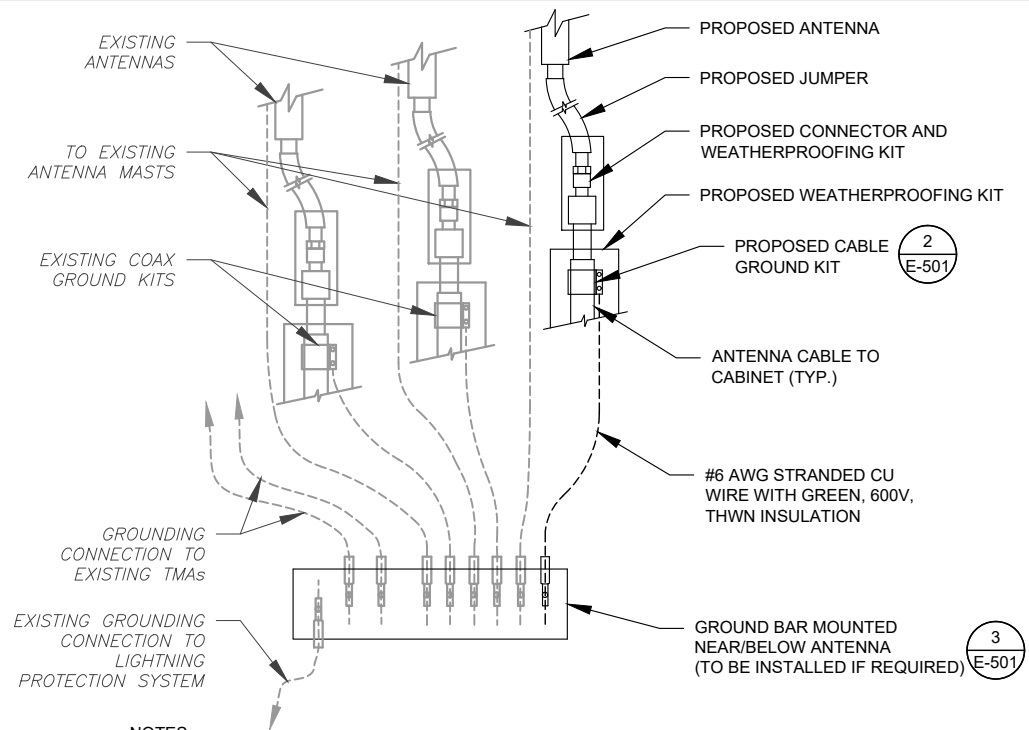
SITE ADDRESS:
118C WINTTECHOG HILL RD
N. STONINGTON, CT 06359

SEAL:

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DATE DRAWN:	06/18/19
ATC JOB NO:	12927122

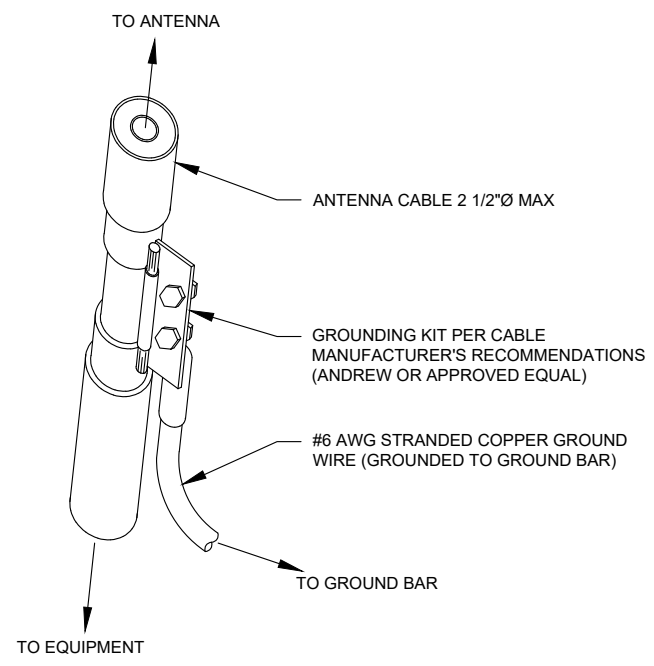
ANTENNA INFORMATION & SCHEDULE	
SHEET NUMBER:	REVISION:
C-501	1



NOTES:

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

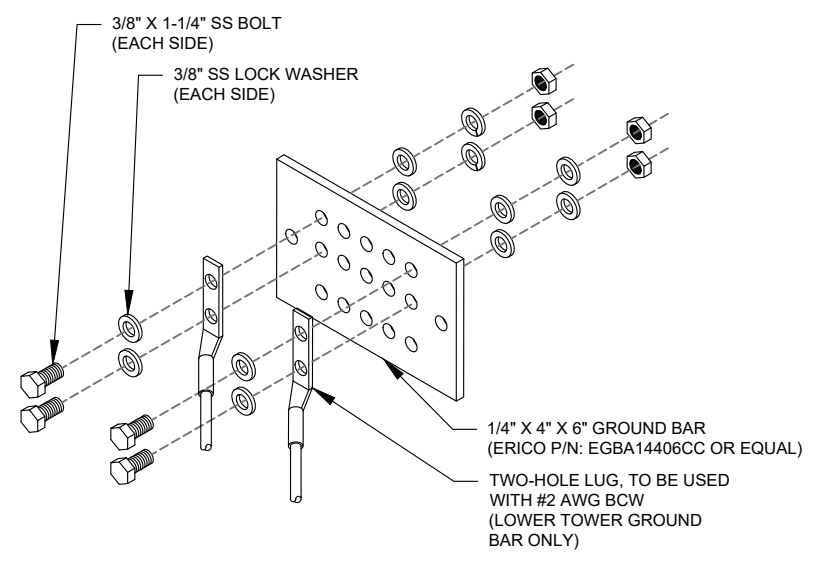
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE



GROUND KIT NOTES:

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

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: NOT TO SCALE



GROUND BAR NOTES:

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

3 TOWER GROUND BAR DETAIL
SCALE: NOT TO SCALE

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A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
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SITE ADDRESS:
118C WINTCHOG HILL RD
N. STONINGTON, CT 06359

SEAL:

STATE OF CONNECTICUT
 PATRICK P. BARRY
 28959
 LICENSED
 PROFESSIONAL ENGINEER

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GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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RAN Template: 67D02C Outdoor	A&L Template: 67D02C_2xAIR+1OP	Power System Template: Custom
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CT11266A_L600_2.1_draft

Section 5 - RAN Equipment

Existing RAN Equipment	
Template: 702Cu	
Enclosure	1
Enclosure Type	RBS 6131
Baseband	DUW30 U2100 (DECOMMISSIONED) DUW30 DUG20 DUS41
Hybrid Cable System	Ericsson 9x18 HCS *Select Length*
Multiplexer	XMU
Radio	RUS01 B4 (x6) U2100 (DECOMMISSIONED)

Proposed RAN Equipment	
Template: 67D02C Outdoor	
Enclosure	1
Enclosure Type	RBS 6131
Baseband	DUW30 U2100 (DECOMMISSIONED) DUW30 DUG20 BB 6630 BB 6630 U1900 G1900 L2100 (N600 [DARK]) L700 L600
Hybrid Cable System	Ericsson 9x18 HCS *Select Length* Ericsson 6x12 HCS *Select Length & AWG* (x3)
Radio	RUS01 B4 (x6) U2100 (DECOMMISSIONED)

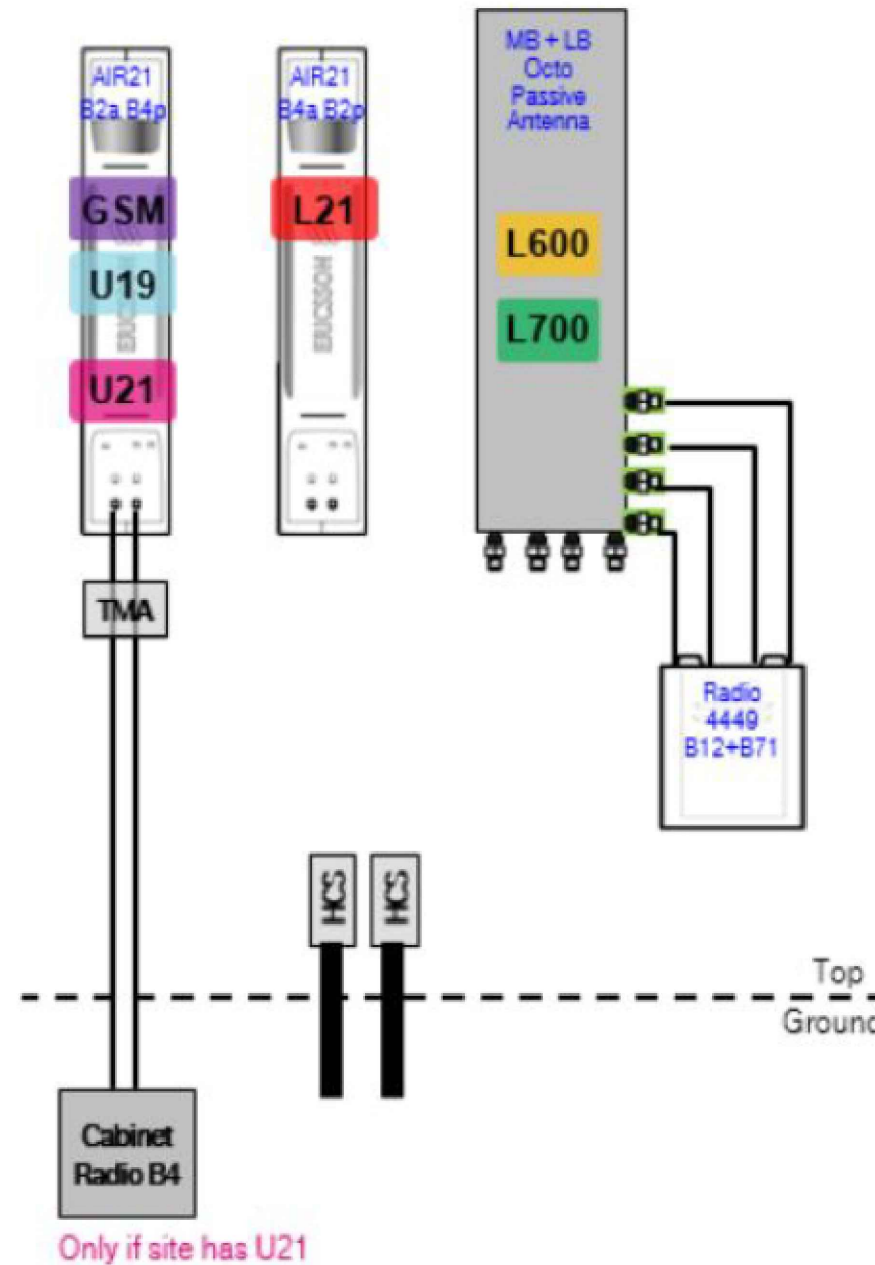
RAN Scope of Work:

Replace DUS41 with (1) BB6630 for L2100, L700, and L600.
 Add (1) BB6630 for future 3G N600.
 Remove XMU.
 Add (3) 6X12 HCS,

1 **CABINET CONFIGURATION**
SCALE: NOT TO SCALE

Section 3 - Proposed Template Images

67D02C.JPG



Notes:

2 **ANTENNA CONFIGURATION**
SCALE: NOT TO SCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: **R-601** REVISION: **0**



Mount Analysis of Proposed Perfect Vision PV-SFA12-B Sector Frames for American Tower on behalf of T-Mobile
6260 - North Stonington CT

Project #: 12927122

T-Mobile Site ID: CT11266A

Program: L600

CLS Engineering PLLC Project #41124-12927122-01-MR-R1

July 3, 2019

MOUNT DESCRIPTION	Proposed Perfect Vision PV-SFA12-B Sector Frames at 225 ft AGL
ANTENNA ELEVATION	Nominal Rad. Elevation of 225 ft AGL
SITE DESCRIPTION	250 ft Self-Supporting Tower
SITE ADDRESS	118C Wintechog Hill Rd., off of Rt. 2, North Stonington, CT 06359-1228, New London County
GPS COORDINATES	41.45983887, -71.9 2733765
ANALYSIS STANDARD	2015 IBC / 2018 Connecticut State Building Code / TIA-222-G
LOADING CRITERIA	135 mph, V_{ult} / 104.6 mph, V_{sd} (3-Second Gust) w/o ice & 50 mph (3-Second Gust) w/ 0.75"

■ ANALYSIS RESULT: **Pass (Replacement)**

MEMBER USAGE	53%	Pass
--------------	-----	------

Existing mounts to be replaced; see conclusion for details.

Prepared by:
Jennifer Soza

Reviewed and Approved by:
Tyler M. Barker, P.E.



Tyler M. Barker
CLS Engineering, PLLC
Director of Engineering
PE # 32402 Exp. 1/31/2020
COA # PEC-091833 Exp. 8/14/2019



Mount Analysis for American Tower on behalf of T-Mobile
6260 - North Stonington CT

July 3, 2019

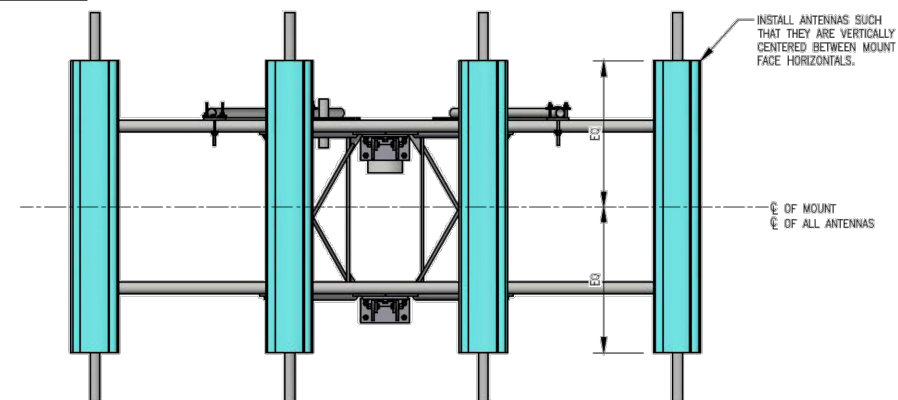
CLS Engineering PLLC Project #41124-12927122-01-MR-R1

■ CONCLUSION AND RECOMMENDATIONS

According to our structural analysis, the mounts have been found to **PASS PENDING REPLACEMENT**. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the following scope is executed:

- Replace existing Sector Frame mounts with (3) proposed Perfect Vision PV-SFA12-B Sector Frames.
- Install (4) 8'-0" long Pipe 2-1/2 STD, A53 Gr. B, mount pipes at each sector frame mount (12 total). Connect mount pipes to upper and lower face horizontal members using 1/2" U-Bolts such that the mount pipes are vertically centered on the mount.
- Install (2) stiff arms included in the sector frame kit at each sector frame mount (6 total). Connect to nearest adjacent tower leg with Perfect Vision PV-SAM-U or equal (6 total). Connect to upper face horizontal member as shown in the following sketch.
- Install existing and proposed antennas such that they are vertically centered on the mounts. Install existing and proposed RRUS and TMAs behind the antennas.

NOTE:
TOWER AND MOUNT SHOWN
ARE REPRESENTATIVE, ACTUAL
GEOMETRY MAY VARY.

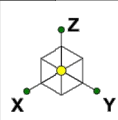


See following sketches and Perfect Vision assembly drawings for additional details.

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

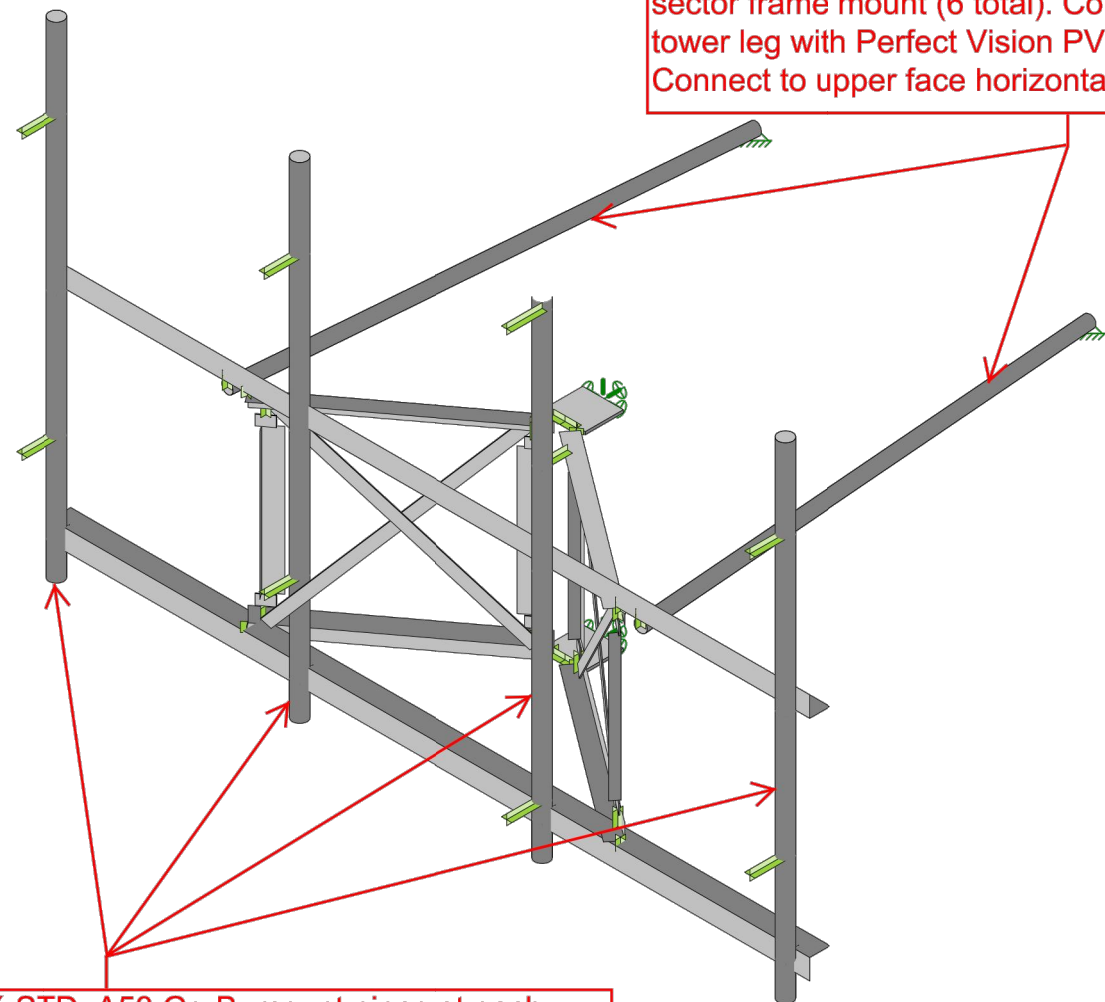
SUPPLEMENTAL

SHEET NUMBER: R-602	REVISION: 0
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Replace existing Sector Frame mounts with (3) proposed Perfect Vision PV-SFA12-B Sector Frames.

Install (2) stiff arms included in the sector frame kit at each sector frame mount (6 total). Connect to nearest adjacent tower leg with Perfect Vision PV-SAM-U or equal (6 total). Connect to upper face horizontal member.



Install (4) 8'-0" long Pipe 2½ STD, A53 Gr. B, mount pipes at each sector frame mount (12 total). Connect mount pipes to upper and lower face horizontal members with ½"Ø U-bolts such that the mount pipes are vertically centered on the mount.

CLS	41124-12927122-North Stonington CT Proposed Replacement Mount - Rendered	IN - 1
CWD		Apr 10, 2019 at 9:28 AM
41124-12927122-01-MR		41124-12927122-01-MR.r3d

1 MOUNT ANALYSIS
SCALE: NOT TO SCALE

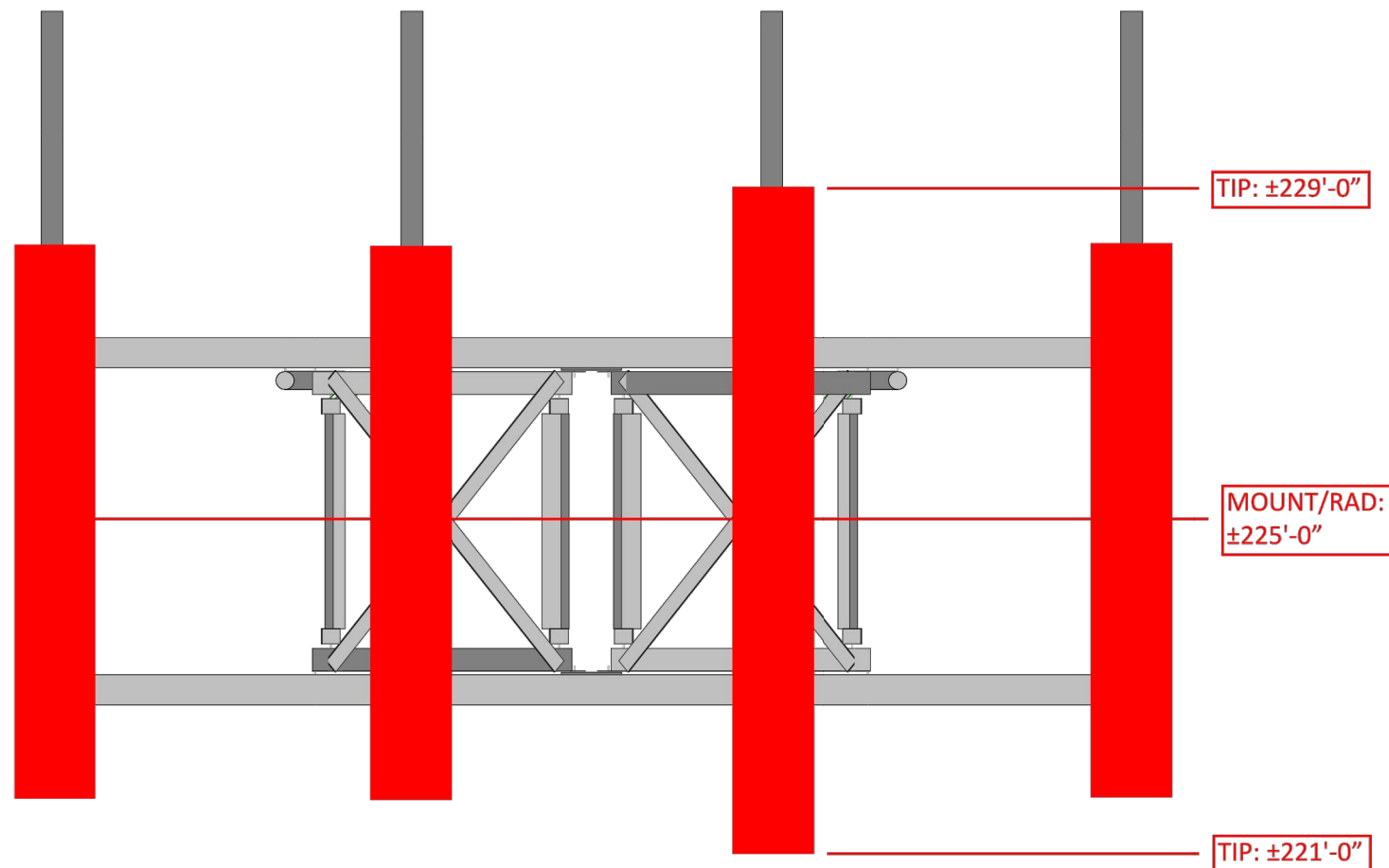
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY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

SUPPLEMENTAL

SHEET NUMBER: R-603	REVISION: 0
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Replace existing Sector Frame mounts with (3) proposed Perfect Vision PV-SFA12-B Sector Frames.



Envelope Only Solution

CLS
CWD
41124-12927122-01-MR

41124-12927122-North Stonington CT
Proposed Replacement Mount - Elevation View

IN - 2
Apr 10, 2019 at 9:31 AM
41124-12927122-01-MR.r3d

1 MOUNT ANALYSIS
SCALE: NOT TO SCALE

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

SUPPLEMENTAL

SHEET NUMBER: R-604	REVISION: 0
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AMERICAN TOWER®
CORPORATION

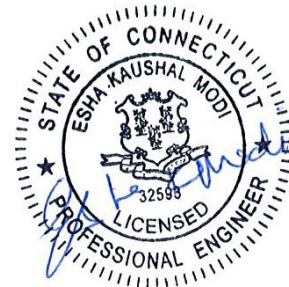
Structural Analysis Report

Structure : 250 ft Self Supported Tower
ATC Site Name : NORTH STONINGTON CT, CT
ATC Site Number : 6260
Engineering Number : 12927122_C3_03
Proposed Carrier : T-MOBILE
Carrier Site Name : CT11266A
Carrier Site Number : CT11266A
Site Location : 118C Wintechog Hill Rd., off of Rt. 2
North Stonington, CT 06359-1228
41.459800,-71.927300
County : New London
Date : July 18, 2019
Max Usage : 94%
Result : Pass

Prepared By:
Zackaryah Hughes
Structural Engineer I

Zackaryah Hughes

Reviewed By:



Authorized by "EOR"
Jul 19 2019 2:49 PM

cosign

COA: PEC.0001553



Table of Contents

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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 250 ft self supported tower to reflect the change in loading by T-Mobile.

Supporting Documents

Tower Drawings	FWT Job #19240001, dated September 13, 1999
Foundation Drawing	FWT Job #19240001, dated September 13, 1999
Geotechnical Report	Clarence Welti Associates, dated August 31, 1999
Mount Analysis	CLS Engineering PLLC Project #41124-12927122-01-MR-R1, dated July 3, 2019

Analysis

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

Basic Wind Speed:	105 mph (3-Second Gust, V_{asd}) / 135 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2015 IBC / 2018 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Spectral Response:	$S_s = 0.16$, $S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

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

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



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
260.0	2	10' Omni	Leg	(4) 1 5/8" Coax	Other
	1	Decibel DB809DK-XT	Leg	(2) 1 5/8" Coax	State of CT
250.0	1	Box Enclosures BEN-92P	Sector Frames	(4) 0.21" (5.3mm) Cat 5e (4) 1 1/4" Hybriflex Cable (1) 1" conduit	Sprint Nextel
246.0	3	RFS APXVSP18-C-A20			
	3	Alcatel-Lucent TD-RRH8x20-25			
	3	Alcatel-Lucent 1900 MHz 4X45 RRH			
	6	Alcatel-Lucent RRH2x50-08			
236.0	3	KMW ETCR-654L12H6	Leg	(1) 1/2" Coax	Sigfox S.A.
	1	Procom CXL 900-3LW			
	1	5" x 3" x 2" Cavity Filter			
225.0	1	Low Noise Amplifier	-	(2) 1 5/8" Hybriflex (6) 3/8" Coax (6) 1 5/8" Coax	T-Mobile
	-	-			
210.0	12	Andrew SMR08-09012-0D	Sector Frames	(12) 1 5/8" Coax (12) 7/8" Coax	Sprint Nextel
207.0	1	Sinclair SC479-HF1LDF(E5765)	Side Arms	(1) 1 5/8" Coax	State of CT
200.0	1	Bird 432E-831-01-T		(1) 0.51" (13mm) Cable	
192.0	2	Sinclair SC479-HF1LDF(E5765)		(2) 1 5/8" Coax	
175.0	1	Raycap DC6-48-60-18-8F (23.5" Height)	Sector Frames	(1) 0.39" (10mm) Fiber Trunk (2) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (1) 3" conduit	AT&T Mobility
	6	Powerwave Allgon LGP17201			
	3	Ericsson RRUS-11 1900 MHz			
	1	KMW AM-X-CD-14-65-00T-RET			
	6	Allgon 7770.00			
	1	Andrew SBNH-1D6565C (60.8 lbs)			
	6	LGP Allgon LGP21903			
	1	Powerwave Allgon P65-17-XLH-RR			
155.0	6	Kathrein Scala 800 10504	Sector Frames	(12) 1 5/8" Coax (6) 3/8" Coax	Metro PCS, Inc.
	6	Kathrein Scala 860 10025			
96.0	1	24" x 24" Ice Shield	Leg	-	Other
89.0	1	6' Dish w/ Radome	Leg	(1) 1/2" Coax (1) EW52	
83.0	1	RFS PA6-65AC w/ Radome	Leg	(1) WE65	State of CT

Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
225.0	3	Ericsson KRY 112 144/1	Sector Frames	(6) 1 5/8" Coax	T-Mobile
222.0	3	Andrew LNX-6515DS-VTM			
	3	Ericsson AIR 21, 1.3M, B4A B2P			
	3	Ericsson RRUS 11 (Band 12)			
	3	Ericsson AIR 21, 1.3 M, B2A B4P			



Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
225.0	3	Ericsson Radio 4449 B12,B71	Perfect Vision PV-SFA12-B Sector Frames	(2) 1 5/8" Hybriflex	T-Mobile
	3	Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)			
	3	Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)			
	3	RFS APXVAARR24_43-U-NA20			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines alongside existing T-Mobile lines.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	57%	Pass
Diagonals	94%	Pass
Horizontals	2%	Pass
Anchor Bolts	53%	Pass
Leg Bolts	50%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Uplift (Kips)	556.7	751.5	515.8	69%
Axial (Kips)	673.9	909.8	606.2	67%
Shear (Kips)	63.2	85.3	61.9	73%

* The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
225.0	Ericsson Radio 4449 B12,B71	T-MOBILE	0.299	0.010	0.148
	Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)				
	Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)				
	RFS APXVAARR24_43-U-NA20				
89.0	Generic 6' Dish w/ Radome	OTHER	0.041	0.005	0.055
83.0	RFS PA6-65AC w/ Radome	STATE OF CT			

*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G



Standard Conditions

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

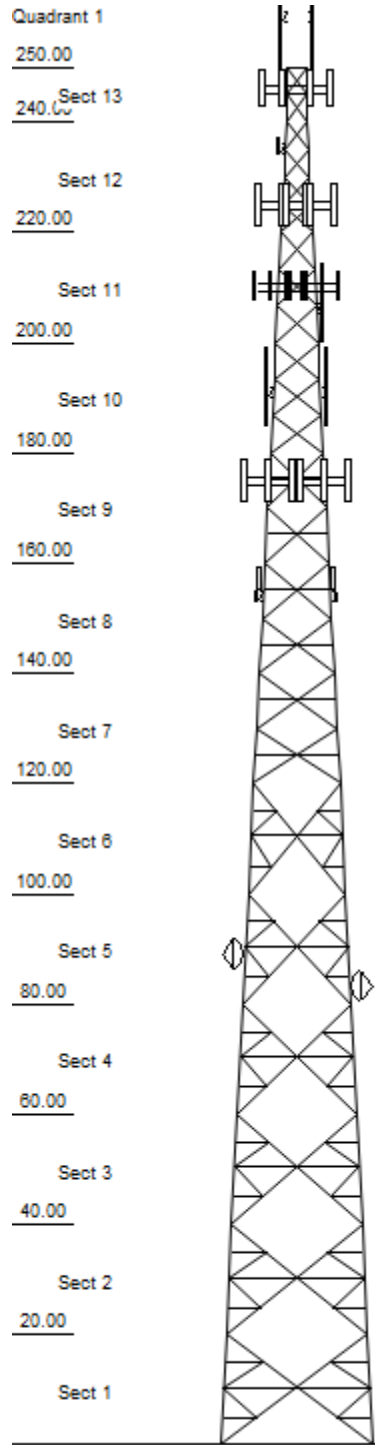
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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

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

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

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



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Loads: 105 mph no ice
 50 mph w/ 3/4" radial ice
 Site Class: D Ss: 0.16 S1: 0.06
 60 mph Serviceability

Job Information		
Client : T-MOBILE	Location : NORTH	Base Width : 28.00 ft
Tower : 6260		Top Width : 4.00 ft
Code : ANSI/TIA-222-G		Tower Ht : 250.00 ft
		Shape : Triangle

Sections Properties			
Section	Leg Members	Diagonal Members	Horizontal Members
1	SOL 50 ksi 5 3/4" SOLID	DAE 36 ksi 3X3X0.25	
2	SOL 50 ksi 5 1/2" SOLID	DAE 36 ksi 3X3X0.25	
3	SOL 50 ksi 5 1/4" SOLID	DAE 36 ksi 3X3X0.25	
4	SOL 50 ksi 5" SOLID	DAE 36 ksi 3X3X0.1875	
5	SOL 50 ksi 4 3/4" SOLID	DAE 36 ksi 3X3X0.1875	
6	SOL 50 ksi 4 1/2" SOLID	DAE 36 ksi 3X3X0.1875	
7	SOL 50 ksi 4 1/4" SOLID	DAE 36 ksi 2.5X2.5X0.1875	
8	SOL 50 ksi 4" SOLID	DAE 36 ksi 2.5X2.5X0.1875	
9	SOL 50 ksi 3 3/4" SOLID	SAE 36 ksi 3.5X3.5X0.25	
10	SOL 50 ksi 3 3/4" SOLID	SAE 36 ksi 3X3X0.1875	
11	SOL 50 ksi 3 1/4" SOLID	SAE 36 ksi 2.5X2.5X0.1875	
12	SOL 50 ksi 2 1/4" SOLID	SAE 36 ksi 1.75X1.75X0.1875	
13	SOL 50 ksi 2" SOLID	SAE 36 ksi 1.75X1.75X0.1875	SAE 36 ksi 2X2X0.1875

Redundant Secondary Bracing						
Section	Sub Diag 1	Sub Horiz 1	Sub Diag 2	Sub Horiz 2	Sub Diag 3	Sub Horiz 3
1	D2.5X2.5X0.1875	D2.5X2.5X0.1875	D2.5X2.5X0.1875	D3X3X0.1875	-	D2.5X2.5X0.18
2	D2X2X0.1875	D2X2X0.1875	D2X2X0.1875	D3X3X0.1875	-	D2X2X0.1875
3	D2X2X0.1875	D2X2X0.1875	D2X2X0.1875	D2.5X2.5X0.1875	-	D2X2X0.1875
4	S3X3X0.1875	S2.5X2.5X0.1875	S3X3X0.1875	S3.5X3.5X0.25	-	S2.5X2.5X0.18
5	S3X3X0.1875	S2.5X2.5X0.1875	S3X3X0.1875	S3X3X0.25	-	S2.5X2.5X0.18
6	S2.5X2.5X0.1875	S2X2X0.1875	S2.5X2.5X0.1875	S3X3X0.1875	-	S2X2X0.1875
7	-	S3X3X0.1875	-	-	-	-
8	-	S2.5X2.5X0.1875	-	-	-	-
9	-	S2X2X0.1875	-	-	-	-
10 - 13	-	-	-	-	-	-

Discrete Appurtenance			
Elev (ft)	Type	Qty	Description
260.00	Whip	1	Decibel DB809DK-XT
260.00	Whip	2	Generic 10' Omni
250.00		1	Box Enclosures BEN-92P
246.00	Mounting Frame	3	Round Sector Frames
246.00	Panel	3	KMW ETCR-654L12H6
246.00	Panel	3	RFS APXVSP18-C-A20
246.00		3	Alcatel-Lucent TD-RRH8x20-25
246.00		3	Alcatel-Lucent 1900 MHz 4X45 R
246.00		6	Alcatel-Lucent RRH2x50-08
236.00		1	Generic Low Noise Amplifier
236.00		1	Generic 5" x 3" x 2" Cavity Fi
236.00	Whip	1	Procom CXL 900-3LW
225.00	Mounting Frame	3	Round Sector Frames
225.00	Panel	3	RFS APXVAARR24_43-U-NA20
225.00	Panel	3	Ericsson AIR 21, 1.3M, B4A B2P
225.00	Panel	3	Ericsson AIR 21, 1.3M, B2A B4P
225.00		3	Ericsson Radio 4449 B12,B71
210.00	Mounting Frame	3	Round Sector Frames
210.00	Panel	12	Andrew SMR08-09012-0D
207.00	Whip	1	Sinclair SC479-HF1LDF(E5765)
200.00	Straight Arm	3	Flat Side Arm
200.00		1	Bird 432E-83I-01-T
192.00	Whip	2	Sinclair SC479-HF1LDF(E5765)
175.00	Mounting Frame	3	Round Sector Frames
175.00	Panel	1	Powerwave Allgon P65-17-XLH-RR

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Job Information		
Client : T-MOBILE		
Tower : 6260	Location : NORTH	Base Width : 28.00 ft
Code : ANSI/TIA-222-G		Top Width : 4.00 ft
		Tower Ht : 250.00 ft
		Shape : Triangle

175.00	Panel	1	Andrew SBNH-1D6565C (60.8 lbs)
175.00	Panel	6	Allgon 7770.00
175.00	Panel	1	KMW AM-X-CD-14-65-00T-RET
175.00		3	Ericsson RRUS-11 1900 MHz
175.00		6	Powerwave Allgon LGP17201
175.00		1	Raycap DC6-48-60-18-8F (23.5"
175.00		6	LGP Allgon LGP21903
164.00	Straight Arm	1	Flat Side Arm
164.00	Straight Arm	1	Flat Side Arm
158.00	Mounting Frame	3	Flat Light Sector Frame
155.00	Panel	6	Kathrein Scala 800 10504
155.00		6	Kathrein Scala 860 10025
96.00	Other	1	Generic 24" x 24" Ice Shield
89.00	Dish	1	Generic 6' Dish w/ Radome
83.00	Dish	1	RFS PA6-65AC w/ Radome

Linear Appurtenance			
Elev (ft)			
From	To	Qty	Description
0.00	260.00	2	1 5/8" Coax
0.00	260.00	4	1 5/8" Coax
0.00	250.00	1	Waveguide
0.00	250.00	1	Climbing Ladder
0.00	246.00	1	Waveguide
0.00	246.00	1	1" conduit
0.00	246.00	4	1 1/4" Hybriflex Cab
0.00	246.00	4	0.21" (5.3mm) Cat 5e
0.00	236.00	1	1/2" Coax
0.00	225.00	1	Waveguide
0.00	225.00	3	1 5/8" Hybriflex
0.00	225.00	1	1 5/8" Hybriflex
0.00	225.00	6	1 5/8" Coax
0.00	210.00	1	Waveguide
0.00	210.00	12	7/8" Coax
0.00	210.00	12	1 5/8" Coax
0.00	207.00	1	1 5/8" Coax
10.00	200.00	1	0.51" (13mm) Cable
0.00	192.00	2	1 5/8" Coax
10.00	175.00	1	3" conduit
10.00	175.00	2	0.78" (19.7mm) 8 AWG
10.00	175.00	1	0.39" (10mm) Fiber T
0.00	175.00	1	Waveguide
0.00	175.00	12	1 5/8" Coax
0.00	158.00	1	Waveguide
0.00	155.00	6	3/8" Coax
0.00	155.00	12	1 5/8" Coax
0.00	89.00	1	EW52
0.00	89.00	1	1/2" Coax
0.00	83.00	1	WE65

Global Base Foundation Design Loads			
Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL + WL	13,793.36	112.09	104.12
DL + WL + IL	4,642.83	311.30	36.37

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Job Information		
Client : T-MOBILE		
Tower : 6260	Location : NORTH	Base Width : 28.00 ft
Code : ANSI/TIA-222-G		Top Width : 4.00 ft
		Tower Ht : 250.00 ft
		Shape : Triangle

Individual Base Foundation Design Loads		
Vertical (kip)	Uplift (kip)	Horizontal (kip)
606.19	515.81	61.89

Site Number: 6260

Code:

ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

7/18/2019 9:45:30 PM

Customer: T-MOBILE

Analysis Parameters

Location:	New London County, CT	Height (ft):	250
Code:	ANSI/TIA-222-G	Base Elevation (ft):	0.00
Shape:	Triangle	Bottom Face Width (ft):	28.00
Tower Manufacturer:	FWT	Top Face Width (ft):	4.00
Tower Type:	Self Support	Anchor Bolt Detail Type	d
Kd:			
Ke:			

Ice & Wind Parameters

Structure Class:	II	Design Windspeed Without Ice:	105 mph
Exposure Category:	B	Design Windspeed With Ice:	50 mph
Topographic Category:	1	Operational Windspeed:	60 mph
Crest Height:	0 ft	Design Ice Thickness:	0.75 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	0.90		
T _L (sec):	6	p:	1.3
S _s :	0.163	S ₁ :	0.059
F _a :	1.600	F _v :	2.400
S _{ds} :	0.174	S _{d1} :	0.094
		C _s :	0.035
		C _{s, Max} :	0.035
		C _{s, Min} :	0.030

Load Cases

1.2D + 1.6W Normal	105 mph Normal with No Ice
1.2D + 1.6W 60 deg	105 mph 60 degree with No Ice
1.2D + 1.6W 90 deg	105 mph 90 degree with No Ice
1.2D + 1.6W 120 deg	105 mph 120 degree with No Ice
1.2D + 1.6W 180 deg	105 mph 180 degree with No Ice
1.2D + 1.6W 210 deg	105 mph 210 degree with No Ice
1.2D + 1.6W 240 deg	105 mph 240 degree with No Ice
1.2D + 1.6W 300 deg	105 mph 300 degree with No Ice
1.2D + 1.6W 330 deg	105 mph 330 degree with No Ice
0.9D + 1.6W Normal	105 mph Normal with No Ice (Reduced DL)
0.9D + 1.6W 60 deg	105 mph 60 deg with No Ice (Reduced DL)
0.9D + 1.6W 90 deg	105 mph 90 deg with No Ice (Reduced DL)
0.9D + 1.6W 120 deg	105 mph 120 deg with No Ice (Reduced DL)
0.9D + 1.6W 180 deg	105 mph 180 deg with No Ice (Reduced DL)
0.9D + 1.6W 210 deg	105 mph 210 deg with No Ice (Reduced DL)
0.9D + 1.6W 240 deg	105 mph 240 deg with No Ice (Reduced DL)
0.9D + 1.6W 300 deg	105 mph 300 deg with No Ice (Reduced DL)
0.9D + 1.6W 330 deg	105 mph 330 deg with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	50 mph Normal with 0.75 in Radial Ice

Analysis Parameters

1.2D + 1.0Di + 1.0Wi 60 deg	50 mph 60 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 90 deg	50 mph 90 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 120 deg	50 mph 120 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 180 deg	50 mph 180 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 210 deg	50 mph 210 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 240 deg	50 mph 240 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 300 deg	50 mph 300 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 330 deg	50 mph 330 deg with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E Normal	Seismic Normal
(1.2 + 0.2Sds) * DL + E 60 deg	Seismic 60 deg
(1.2 + 0.2Sds) * DL + E 90 deg	Seismic 90 deg
(1.2 + 0.2Sds) * DL + E 120 deg	Seismic 120 deg
(1.2 + 0.2Sds) * DL + E 180 deg	Seismic 180 deg
(1.2 + 0.2Sds) * DL + E 210 deg	Seismic 210 deg
(1.2 + 0.2Sds) * DL + E 240 deg	Seismic 240 deg
(1.2 + 0.2Sds) * DL + E 300 deg	Seismic 300 deg
(1.2 + 0.2Sds) * DL + E 330 deg	Seismic 330 deg
(0.9 - 0.2Sds) * DL + E Normal	Seismic (Reduced DL) Normal
(0.9 - 0.2Sds) * DL + E 60 deg	Seismic (Reduced DL) 60 deg
(0.9 - 0.2Sds) * DL + E 90 deg	Seismic (Reduced DL) 90 deg
(0.9 - 0.2Sds) * DL + E 120 deg	Seismic (Reduced DL) 120 deg
(0.9 - 0.2Sds) * DL + E 180 deg	Seismic (Reduced DL) 180 deg
(0.9 - 0.2Sds) * DL + E 210 deg	Seismic (Reduced DL) 210 deg
(0.9 - 0.2Sds) * DL + E 240 deg	Seismic (Reduced DL) 240 deg
(0.9 - 0.2Sds) * DL + E 300 deg	Seismic (Reduced DL) 300 deg
(0.9 - 0.2Sds) * DL + E 330 deg	Seismic (Reduced DL) 330 deg
1.0D + 1.0W Service Normal	Serviceability - 60 mph Wind Normal
1.0D + 1.0W Service 60 deg	Serviceability - 60 mph Wind 60 deg
1.0D + 1.0W Service 90 deg	Serviceability - 60 mph Wind 90 deg
1.0D + 1.0W Service 120 deg	Serviceability - 60 mph Wind 120 deg
1.0D + 1.0W Service 180 deg	Serviceability - 60 mph Wind 180 deg
1.0D + 1.0W Service 210 deg	Serviceability - 60 mph Wind 210 deg
1.0D + 1.0W Service 240 deg	Serviceability - 60 mph Wind 240 deg
1.0D + 1.0W Service 300 deg	Serviceability - 60 mph Wind 300 deg
1.0D + 1.0W Service 330 deg	Serviceability - 60 mph Wind 330 deg

Tower Loading

Discrete Appurtenance Properties 1.2D + 1.6W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
260.0	Generic 10' Omni	2	25	3.0	10.0	3.0	3.0	1.00	1.00	0.0	0.0	31.15	254	60
260.0	Decibel DB809DK-XT	1	64	6.3	21.2	3.0	3.0	1.00	1.00	0.0	0.0	31.15	269	77
250.0	Box Enclosures BEN-	1	2	0.7	0.8	8.0	5.1	0.80	1.00	0.0	0.0	30.80	22	3
246.0	Alcatel-Lucent	6	53	1.7	1.3	13.0	9.8	0.80	0.50	0.0	0.0	30.66	170	381
246.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	30.66	116	216
246.0	Alcatel-Lucent TD-	3	66	3.7	2.1	17.5	5.7	0.80	0.50	0.0	0.0	30.66	185	238
246.0	RFS APXVSP18-C-	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	30.66	554	205
246.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	30.66	905	1080
246.0	KMW ETCR-	3	85	15.7	7.1	21.0	6.3	0.80	0.61	0.0	0.0	30.66	959	306
236.0	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	30.30	5	2
236.0	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	0.50	0.0	0.0	30.30	3	2
236.0	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	0.50	0.0	0.0	30.30	4	2
225.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.80	0.50	0.0	0.0	29.89	80	266
225.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	29.89	412	329
225.0	Ericsson AIR 21,	3	90	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	29.89	416	325
225.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	29.89	882	1080
225.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	29.89	1244	460
210.0	Andrew SMR08-	12	26	6.9	5.7	10.5	5.0	0.80	0.66	0.0	0.0	29.31	1735	374
210.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	29.31	865	1080
207.0	Sinclair SC479-	1	34	5.0	14.4	3.5	3.5	1.00	1.00	0.0	0.0	29.19	200	41
200.0	Bird 432E-83I-01-T	1	25	1.2	1.0	12.0	7.5	0.80	0.67	0.0	0.0	28.90	25	30
200.0	Flat Side Arm	3	150	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	28.90	498	540
192.0	Sinclair SC479-	2	34	5.0	14.4	3.5	3.5	0.90	1.00	0.0	0.0	28.57	352	82
175.0	LGP Allgon	6	6	0.2	0.4	6.3	3.0	0.80	0.50	0.0	0.0	27.82	21	40
175.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	27.82	26	24
175.0	Powerwave Allgon	6	31	1.7	1.2	14.4	3.7	0.80	0.50	0.0	0.0	27.82	152	223
175.0	Ericsson RRUS-11	3	44	2.5	1.4	17.8	7.2	0.80	0.50	0.0	0.0	27.82	114	158
175.0	KMW AM-X-CD-14-	1	36	5.0	4.0	11.8	5.9	0.80	1.00	0.0	0.0	27.82	151	44
175.0	Allgon 7770.00	6	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	27.82	650	252
175.0	Andrew SBNH-	1	61	11.4	8.0	11.9	7.1	0.80	1.00	0.0	0.0	27.82	346	73
175.0	Powerwave Allgon	1	59	11.5	8.0	12.0	6.0	0.80	1.00	0.0	0.0	27.82	347	71
175.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	27.82	821	1080
164.0	Flat Side Arm	1	150	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.0	27.31	234	180
164.0	Flat Side Arm	1	150	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.0	27.31	234	180
158.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	27.02	992	1440
155.0	Kathrein Scala 860	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.0	26.87	14	9
155.0	Kathrein Scala 800	6	18	3.3	4.5	6.1	2.7	0.80	0.66	3.0	1166.4	27.02	389	127
96.00	Generic 24" x 24"	1	50	0.8	0.3	24.0	24.0	1.00	1.00	0.0	0.0	23.43	25	60
89.00	Generic 6' Dish w/	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	22.93	761	300
83.00	RFS PA6-65AC w/	1	308	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	22.48	746	370
Totals		113	9841	723.5									16180	11809

Discrete Appurtenance Properties 0.9D + 1.6W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
260.0	Generic 10' Omni	2	25	3.0	10.0	3.0	3.0	1.00	1.00	0.0	0.0	31.15	254	45
260.0	Decibel DB809DK-XT	1	64	6.3	21.2	3.0	3.0	1.00	1.00	0.0	0.0	31.15	269	58
250.0	Box Enclosures BEN-	1	2	0.7	0.8	8.0	5.1	0.80	1.00	0.0	0.0	30.80	22	2
246.0	Alcatel-Lucent	6	53	1.7	1.3	13.0	9.8	0.80	0.50	0.0	0.0	30.66	170	286
246.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	30.66	116	162
246.0	Alcatel-Lucent TD-	3	66	3.7	2.1	17.5	5.7	0.80	0.50	0.0	0.0	30.66	185	178

Site Number: 6260

Code:

ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

7/18/2019 9:45:30 PM

Customer: T-MOBILE

Tower Loading

246.0	RFS APXVSP18-C-	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	30.66	554	154
246.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	30.66	905	810
246.0	KMW ETCR-	3	85	15.7	7.1	21.0	6.3	0.80	0.61	0.0	0.0	30.66	959	229
236.0	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	30.30	5	1
236.0	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	0.50	0.0	0.0	30.30	3	1
236.0	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	0.50	0.0	0.0	30.30	4	2
225.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.80	0.50	0.0	0.0	29.89	80	200
225.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	29.89	412	247
225.0	Ericsson AIR 21,	3	90	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	29.89	416	244
225.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	29.89	882	810
225.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	29.89	1244	345
210.0	Andrew SMR08-	12	26	6.9	5.7	10.5	5.0	0.80	0.66	0.0	0.0	29.31	1735	281
210.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	29.31	865	810
207.0	Sinclair SC479-	1	34	5.0	14.4	3.5	3.5	1.00	1.00	0.0	0.0	29.19	200	31
200.0	Bird 432E-83I-01-T	1	25	1.2	1.0	12.0	7.5	0.80	0.67	0.0	0.0	28.90	25	23
200.0	Flat Side Arm	3	150	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	28.90	498	405
192.0	Sinclair SC479-	2	34	5.0	14.4	3.5	3.5	0.90	1.00	0.0	0.0	28.57	352	61
175.0	LGP Allgon	6	6	0.2	0.4	6.3	3.0	0.80	0.50	0.0	0.0	27.82	21	30
175.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	27.82	26	18
175.0	Powerwave Allgon	6	31	1.7	1.2	14.4	3.7	0.80	0.50	0.0	0.0	27.82	152	167
175.0	Ericsson RRUS-11	3	44	2.5	1.4	17.8	7.2	0.80	0.50	0.0	0.0	27.82	114	119
175.0	KMW AM-X-CD-14-	1	36	5.0	4.0	11.8	5.9	0.80	1.00	0.0	0.0	27.82	151	33
175.0	Allgon 7770.00	6	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	27.82	650	189
175.0	Andrew SBNH-	1	61	11.4	8.0	11.9	7.1	0.80	1.00	0.0	0.0	27.82	346	55
175.0	Powerwave Allgon	1	59	11.5	8.0	12.0	6.0	0.80	1.00	0.0	0.0	27.82	347	53
175.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	27.82	821	810
164.0	Flat Side Arm	1	150	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.0	27.31	234	135
164.0	Flat Side Arm	1	150	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.0	27.31	234	135
158.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	27.02	992	1080
155.0	Kathrein Scala 860	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.0	26.87	14	6
155.0	Kathrein Scala 800	6	18	3.3	4.5	6.1	2.7	0.80	0.66	3.0	1166.4	27.02	389	95
96.00	Generic 24" x 24"	1	50	0.8	0.3	24.0	24.0	1.00	1.00	0.0	0.0	23.43	25	45
89.00	Generic 6' Dish w/	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	22.93	761	225
83.00	RFS PA6-65AC w/	1	308	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	22.48	746	277
Totals		113	9841	723.5									16180	8857

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elevation (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
260.0	Generic 10' Omni	2	105	6.8	10.0	3.0	3.0	1.00	1.00	0.0	0.0	7.06	82	220
260.0	Decibel DB809DK-XT	1	231	14.2	21.2	3.0	3.0	1.00	1.00	0.0	0.0	7.06	85	244
250.0	Box Enclosures BEN-	1	26	1.3	0.8	8.0	5.1	0.80	1.00	0.0	0.0	6.98	6	26
246.0	Alcatel-Lucent	6	115	2.6	1.3	13.0	9.8	0.80	0.50	0.0	0.0	6.95	37	755
246.0	Alcatel-Lucent 1900	3	145	3.5	2.1	11.1	10.7	0.80	0.50	0.0	0.0	6.95	25	470
246.0	Alcatel-Lucent TD-	3	154	5.0	2.1	17.5	5.7	0.80	0.50	0.0	0.0	6.95	36	501
246.0	RFS APXVSP18-C-	3	239	11.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	6.95	107	750
246.0	Round Sector	3	687	31.8	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.95	283	2241
246.0	KMW ETCR-	3	389	19.2	7.1	21.0	6.3	0.80	0.61	0.0	0.0	6.95	166	1219
236.0	Procom CXL 900-	1	7	0.9	2.3	0.6	0.6	1.00	1.00	0.0	0.0	6.87	5	7
236.0	Generic 5" x 3" x 2"	1	7	0.4	0.4	3.2	1.9	1.00	0.50	0.0	0.0	6.87	1	7
236.0	Generic Low Noise	1	8	0.5	0.4	4.0	2.0	1.00	0.50	0.0	0.0	6.87	1	8
225.0	Ericsson Radio 4449	3	133	2.5	1.2	13.2	9.3	0.80	0.50	0.0	0.0	6.78	17	442
225.0	Ericsson AIR 21,	3	244	8.3	4.7	12.0	7.8	0.80	0.70	0.0	0.0	6.78	80	786
225.0	Ericsson AIR 21,	3	243	8.4	4.7	12.1	7.9	0.80	0.70	0.0	0.0	6.78	81	782
225.0	Round Sector	3	685	31.7	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.78	275	2234

Site Number: 6260

Code:

ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

7/18/2019 9:45:30 PM

Customer: T-MOBILE

Tower Loading

225.0	RFS	3	538	24.1	8.0	24.0	8.7	0.80	0.63	0.0	0.0	6.78	210	1692
210.0	Andrew SMR08-	12	193	8.1	5.7	10.5	5.0	0.80	0.66	0.0	0.0	6.65	291	2380
210.0	Round Sector	3	681	31.6	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.65	269	2224
207.0	Sinclair SC479-	1	163	10.4	14.4	3.5	3.5	1.00	1.00	0.0	0.0	6.62	58	169
200.0	Bird 432E-83I-01-T	1	66	1.9	1.0	12.0	7.5	0.80	0.67	0.0	0.0	6.55	6	71
200.0	Flat Side Arm	3	225	8.8	0.0	0.0	0.0	1.00	0.67	0.0	0.0	6.55	99	765
192.0	Sinclair SC479-	2	161	10.3	14.4	3.5	3.5	0.90	1.00	0.0	0.0	6.48	102	336
175.0	LGP Allgon	6	14	0.6	0.4	6.3	3.0	0.80	0.50	0.0	0.0	6.31	7	91
175.0	Raycap DC6-48-60-	1	73	1.9	2.0	9.7	9.7	0.80	0.67	0.0	0.0	6.31	6	77
175.0	Powerwave Allgon	6	70	2.5	1.2	14.4	3.7	0.80	0.50	0.0	0.0	6.31	33	455
175.0	Ericsson RRUS-11	3	112	3.6	1.4	17.8	7.2	0.80	0.50	0.0	0.0	6.31	23	363
175.0	KMW AM-X-CD-14-	1	149	6.9	4.0	11.8	5.9	0.80	1.00	0.0	0.0	6.31	30	157
175.0	Allgon 7770.00	6	172	6.6	4.6	11.0	5.0	0.80	0.65	0.0	0.0	6.31	110	1076
175.0	Andrew SBNH-	1	294	14.7	8.0	11.9	7.1	0.80	1.00	0.0	0.0	6.31	63	306
175.0	Powerwave Allgon	1	278	14.7	8.0	12.0	6.0	0.80	1.00	0.0	0.0	6.31	63	290
175.0	Round Sector	3	673	31.2	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.31	252	2200
164.0	Flat Side Arm	1	223	8.8	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.19	46	253
164.0	Flat Side Arm	1	223	8.8	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.19	46	253
158.0	Flat Light Sector	3	702	33.0	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.13	259	2345
155.0	Kathrein Scala 860	6	7	0.5	0.6	2.4	2.0	0.80	0.50	0.0	0.0	6.09	6	45
155.0	Kathrein Scala 800	6	81	5.2	4.5	6.1	2.7	0.80	0.66	3.0	255.1	6.13	85	504
96.00	Generic 24" x 24"	1	138	1.6	0.3	24.0	24.0	1.00	1.00	0.0	0.0	5.31	7	148
89.00	Generic 6' Dish w/	1	908	26.6	6.0	72.0	0.0	1.00	1.00	0.0	0.0	5.20	118	958
83.00	RFS PA6-65AC w/	1	966	26.6	6.0	72.0	0.0	1.00	1.00	0.0	0.0	5.10	115	1028
Totals		113	26913	1140.4									3592	28881

Discrete Appurtenance Properties 1.0D + 1.0W Service

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
260.0	Generic 10' Omni	2	25	3.0	10.0	3.0	3.0	1.00	1.00	0.0	0.0	10.17	52	50
260.0	Decibel DB809DK-XT	1	64	6.3	21.2	3.0	3.0	1.00	1.00	0.0	0.0	10.17	55	64
250.0	Box Enclosures BEN-	1	2	0.7	0.8	8.0	5.1	0.80	1.00	0.0	0.0	10.06	5	2
246.0	Alcatel-Lucent	6	53	1.7	1.3	13.0	9.8	0.80	0.50	0.0	0.0	10.01	35	317
246.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	10.01	24	180
246.0	Alcatel-Lucent TD-	3	66	3.7	2.1	17.5	5.7	0.80	0.50	0.0	0.0	10.01	38	198
246.0	RFS APXVSPP18-C-	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	10.01	113	171
246.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	10.01	185	900
246.0	KMW ETCR-	3	85	15.7	7.1	21.0	6.3	0.80	0.61	0.0	0.0	10.01	196	255
236.0	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	9.89	1	2
236.0	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	0.50	0.0	0.0	9.89	1	2
236.0	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	0.50	0.0	0.0	9.89	1	2
225.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.80	0.50	0.0	0.0	9.76	16	222
225.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	9.76	84	275
225.0	Ericsson AIR 21,	3	90	6.1	4.7	12.1	7.9	0.80	0.70	0.0	0.0	9.76	85	271
225.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.76	180	900
225.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	9.76	254	384
210.0	Andrew SMR08-	12	26	6.9	5.7	10.5	5.0	0.80	0.66	0.0	0.0	9.57	354	312
210.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.57	177	900
207.0	Sinclair SC479-	1	34	5.0	14.4	3.5	3.5	1.00	1.00	0.0	0.0	9.53	41	34
200.0	Bird 432E-83I-01-T	1	25	1.2	1.0	12.0	7.5	0.80	0.67	0.0	0.0	9.44	5	25
200.0	Flat Side Arm	3	150	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	9.44	102	450
192.0	Sinclair SC479-	2	34	5.0	14.4	3.5	3.5	0.90	1.00	0.0	0.0	9.33	72	68
175.0	LGP Allgon	6	6	0.2	0.4	6.3	3.0	0.80	0.50	0.0	0.0	9.08	4	33
175.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	0.67	0.0	0.0	9.08	5	20
175.0	Powerwave Allgon	6	31	1.7	1.2	14.4	3.7	0.80	0.50	0.0	0.0	9.08	31	186

Site Number: 6260

Code: ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Tower Loading

175.0	Ericsson RRUS-11	3	44	2.5	1.4	17.8	7.2	0.80	0.50	0.0	0.0	9.08	23	132
175.0	KMW AM-X-CD-14-	1	36	5.0	4.0	11.8	5.9	0.80	1.00	0.0	0.0	9.08	31	36
175.0	Allgon 7770.00	6	35	5.5	4.6	11.0	5.0	0.80	0.65	0.0	0.0	9.08	133	210
175.0	Andrew SBNH-	1	61	11.4	8.0	11.9	7.1	0.80	1.00	0.0	0.0	9.08	71	61
175.0	Powerwave Allgon	1	59	11.5	8.0	12.0	6.0	0.80	1.00	0.0	0.0	9.08	71	59
175.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.08	168	900
164.0	Flat Side Arm	1	150	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.0	8.92	48	150
164.0	Flat Side Arm	1	150	6.3	0.0	0.0	0.0	1.00	1.00	0.0	0.0	8.92	48	150
158.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	8.82	202	1200
155.0	Kathrein Scala 860	6	1	0.2	0.6	2.4	2.0	0.80	0.50	0.0	0.0	8.77	3	7
155.0	Kathrein Scala 800	6	18	3.3	4.5	6.1	2.7	0.80	0.66	3.0	238.0	8.82	79	106
96.00	Generic 24" x 24"	1	50	0.8	0.3	24.0	24.0	1.00	1.00	0.0	0.0	7.65	5	50
89.00	Generic 6' Dish w/	1	250	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	7.49	155	250
83.00	RFS PA6-65AC w/	1	308	24.4	6.0	72.0	0.0	1.00	1.00	0.0	0.0	7.34	152	308
	Totals	113	9841	723.5									3302	9841

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Tower Loading

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	260.0	1 5/8" Coax	4	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	260.0	1 5/8" Coax	2	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.52
0.00	250.0	Climbing Ladder	1	1.50	6.90	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	250.0	Waveguide	1	1.50	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	246.0	0.21" (5.3mm) Cat	4	0.21	0.02	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	246.0	1 1/4" Hybriflex	4	1.54	1.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	246.0	1" conduit	1	1.32	1.68	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	246.0	Waveguide	1	2.00	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	236.0	1/2" Coax	1	0.63	0.15	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	225.0	1 5/8" Coax	6	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.36
0.00	225.0	1 5/8" Hybriflex	1	1.98	1.30	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	225.0	1 5/8" Hybriflex	3	1.98	1.30	100	Lin App	Individual	0.00	N	1.00	1.00	0.44
0.00	225.0	Waveguide	1	2.00	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	210.0	1 5/8" Coax	12	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	210.0	7/8" Coax	12	1.09	0.33	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	210.0	Waveguide	1	2.00	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	207.0	1 5/8" Coax	1	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
10.00	200.0	0.51" (13mm)	1	0.51	0.14	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	192.0	1 5/8" Coax	2	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.52
0.00	175.0	1 5/8" Coax	12	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.23
0.00	175.0	Waveguide	1	1.50	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
10.00	175.0	0.39" (10mm) Fiber	1	0.39	0.06	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
10.00	175.0	0.78" (19.7mm) 8	2	0.78	0.59	100	Lin App	Individual	0.00	N	1.00	1.00	0.59
10.00	175.0	3" conduit	1	3.50	7.58	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	158.0	Waveguide	1	1.50	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	155.0	1 5/8" Coax	12	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	155.0	3/8" Coax	6	0.44	0.08	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	89.00	1/2" Coax	1	0.63	0.15	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	89.00	EW52	1	2.25	0.59	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	83.00	WE65	1	2.03	0.53	100	Lin App	Individual	0.00	N	1.00	1.00	0.00

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Equivalent Lateral Force Method

(Based on ASCE7-10 Chapters 11, 12 & 15)

Spectral Response Acceleration for Short Period (S_s):	0.16
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.06
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_p):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.17
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.04
Upper Limit C_s :	0.04
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	0.90
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.20
Total Unfactored Dead Load:	93.41 k
Seismic Base Shear (E):	4.25 k

LoadCase (1.2 + 0.2Sds) * DL + E

Seismic

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
13	245.00	762	558,273	0.021	91	940
12	230.00	1,848	1,255,84	0.048	204	2,282
11	210.00	3,352	2,042,33	0.078	332	4,139
10	190.00	4,359	2,355,37	0.090	383	5,382
9	170.00	5,189	2,453,99	0.094	399	6,408
8	150.00	6,139	2,498,41	0.096	407	7,580
7	130.00	6,748	2,313,18	0.089	377	8,332
6	110.00	7,149	2,005,86	0.077	327	8,828
5	90.00	7,793	1,718,96	0.066	280	9,623
4	70.00	8,384	1,368,08	0.052	223	10,353
3	50.00	10,379	1,131,24	0.043	184	12,815
2	30.00	10,342	610,920	0.023	99	12,770
1	10.00	11,124	175,979	0.007	29	13,735
Generic 10' Omni	250.00	50	37,548	0.001	6	62
Decibel DB809DK-XT	250.00	64	48,062	0.002	8	79
Box Enclosures BEN-92P	250.00	2	1,652	0.000	0	3
Alcatel-Lucent RRH2x50-08	246.00	317	233,791	0.009	38	392
Alcatel-Lucent 1900 MHz 4X45 RRH	246.00	180	132,585	0.005	22	222
Alcatel-Lucent TD-RRH8x20-25	246.00	198	145,843	0.006	24	244
RFS APXVSP18-C-A20	246.00	171	125,956	0.005	21	211
Round Sector Frames	246.00	900	662,924	0.025	108	1,111
KMW ETCR-654L12H6	246.00	255	187,607	0.007	31	314
Procom CXL 900-3LW	236.00	2	1,051	0.000	0	2

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Equivalent Lateral Force Method

Generic 5" x 3" x 2" Cavity Filter	236.00	2	1,051	0.000	0	2
Generic Low Noise Amplifier	236.00	2	1,402	0.000	0	2
Ericsson Radio 4449 B12,B71	225.00	222	146,927	0.006	24	274
Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)	225.00	275	181,673	0.007	30	339
Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)	225.00	271	179,489	0.007	29	335
Round Sector Frames	225.00	900	595,650	0.023	97	1,111
RFS APXVAARR24_43-U-NA20	225.00	384	253,946	0.010	41	474
Andrew SMR08-09012-0D	210.00	312	190,095	0.007	31	385
Round Sector Frames	210.00	900	548,352	0.021	89	1,111
Sinclair SC479-HF1LDF(E5765)	207.00	34	20,361	0.001	3	42
Bird 432E-831-01-T	200.00	25	14,366	0.001	2	31
Flat Side Arm	200.00	450	258,594	0.010	42	556
Sinclair SC479-HF1LDF(E5765)	192.00	68	37,210	0.001	6	84
LGP Allgon LGP21903	175.00	33	16,158	0.001	3	41
Raycap DC6-48-60-18-8F (23.5" Height)	175.00	20	9,792	0.000	2	25
Powerwave Allgon LGP17201	175.00	186	91,070	0.003	15	230
Ericsson RRUS-11 1900 MHz	175.00	132	64,630	0.002	11	163
KMW AM-X-CD-14-65-00T-RET	175.00	36	17,822	0.001	3	45
Allgon 7770.00	175.00	210	102,821	0.004	17	259
Andrew SBNH-1D6565C (60.8 lbs)	175.00	61	29,769	0.001	5	75
Powerwave Allgon P65-17-XLH-RR	175.00	59	28,888	0.001	5	73
Round Sector Frames	175.00	900	440,661	0.017	72	1,111
Flat Side Arm	164.00	150	67,943	0.003	11	185
Flat Side Arm	164.00	150	67,943	0.003	11	185
Flat Light Sector Frame	158.00	1,200	519,783	0.020	85	1,482
Kathrein Scala 860 10025	155.00	7	3,048	0.000	0	9
Kathrein Scala 800 10504	155.00	106	44,701	0.002	7	130
Generic 24" x 24" Ice Shield	96.00	50	11,916	0.000	2	62
Generic 6' Dish w/ Radome	89.00	250	54,407	0.002	9	309
RFS PA6-65AC w/ Radome	83.00	308	61,648	0.002	10	380
		93,409	26,127,620	1.000	4,253	115,339

LoadCase (0.9 - 0.2Sds) * DL + E

Seismic (Reduced DL)

Section	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
13	245.00	762	558,273	0.021	91	659
12	230.00	1,848	1,255,84	0.048	204	1,599
11	210.00	3,352	2,042,33	0.078	332	2,900
10	190.00	4,359	2,355,37	0.090	383	3,771
9	170.00	5,189	2,453,99	0.094	399	4,490
8	150.00	6,139	2,498,41	0.096	407	5,311
7	130.00	6,748	2,313,18	0.089	377	5,838
6	110.00	7,149	2,005,86	0.077	327	6,186
5	90.00	7,793	1,718,96	0.066	280	6,743
4	70.00	8,384	1,368,08	0.052	223	7,254
3	50.00	10,379	1,131,24	0.043	184	8,980
2	30.00	10,342	610,920	0.023	99	8,948
1	10.00	11,124	175,979	0.007	29	9,625
Generic 10' Omni	250.00	50	37,548	0.001	6	43
Decibel DB809DK-XT	250.00	64	48,062	0.002	8	55
Box Enclosures BEN-92P	250.00	2	1,652	0.000	0	2
Alcatel-Lucent RRH2x50-08	246.00	317	233,791	0.009	38	275
Alcatel-Lucent 1900 MHz 4X45 RRH	246.00	180	132,585	0.005	22	156

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Equivalent Lateral Force Method

Alcatel-Lucent TD-RRH8x20-25	246.00	198	145,843	0.006	24	171
RFS APXVSP18-C-A20	246.00	171	125,956	0.005	21	148
Round Sector Frames	246.00	900	662,924	0.025	108	779
KMW ETCR-654L12H6	246.00	255	187,607	0.007	31	220
Procom CXL 900-3LW	236.00	2	1,051	0.000	0	1
Generic 5" x 3" x 2" Cavity Filter	236.00	2	1,051	0.000	0	1
Generic Low Noise Amplifier	236.00	2	1,402	0.000	0	2
Ericsson Radio 4449 B12,B71	225.00	222	146,927	0.006	24	192
Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)	225.00	275	181,673	0.007	30	238
Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)	225.00	271	179,489	0.007	29	235
Round Sector Frames	225.00	900	595,650	0.023	97	779
RFS APXVAARR24_43-U-NA20	225.00	384	253,946	0.010	41	332
Andrew SMR08-09012-0D	210.00	312	190,095	0.007	31	270
Round Sector Frames	210.00	900	548,352	0.021	89	779
Sinclair SC479-HF1LDF(E5765)	207.00	34	20,361	0.001	3	29
Bird 432E-83I-01-T	200.00	25	14,366	0.001	2	22
Flat Side Arm	200.00	450	258,594	0.010	42	389
Sinclair SC479-HF1LDF(E5765)	192.00	68	37,210	0.001	6	59
LGP Allgon LGP21903	175.00	33	16,158	0.001	3	29
Raycap DC6-48-60-18-8F (23.5" Height)	175.00	20	9,792	0.000	2	17
Powerwave Allgon LGP17201	175.00	186	91,070	0.003	15	161
Ericsson RRUS-11 1900 MHz	175.00	132	64,630	0.002	11	114
KMW AM-X-CD-14-65-00T-RET	175.00	36	17,822	0.001	3	31
Allgon 7770.00	175.00	210	102,821	0.004	17	182
Andrew SBNH-1D6565C (60.8 lbs)	175.00	61	29,769	0.001	5	53
Powerwave Allgon P65-17-XLH-RR	175.00	59	28,888	0.001	5	51
Round Sector Frames	175.00	900	440,661	0.017	72	779
Flat Side Arm	164.00	150	67,943	0.003	11	130
Flat Side Arm	164.00	150	67,943	0.003	11	130
Flat Light Sector Frame	158.00	1,200	519,783	0.020	85	1,038
Kathrein Scala 860 10025	155.00	7	3,048	0.000	0	6
Kathrein Scala 800 10504	155.00	106	44,701	0.002	7	91
Generic 24" x 24" Ice Shield	96.00	50	11,916	0.000	2	43
Generic 6' Dish w/ Radome	89.00	250	54,407	0.002	9	216
RFS PA6-65AC w/ Radome	83.00	308	61,648	0.002	10	266
		93,409	26,127,620	1.000	4,253	80,820

Site Number: 6260

Code:

ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

7/18/2019 9:45:31 PM

Customer: T-MOBILE

Equivalent Modal Analysis Method

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period (S_{ps}):	0.16
Spectral Response Acceleration at 1.0 Second Period (S_{p1}):	0.06
Importance Factor (I_p):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.17
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Period Based on Rayleigh Method (sec):	0.90
Redundancy Factor (ρ):	1.30

LoadCase (1.2 + 0.2Sds) * DL + E

Seismic

Section	Height Above Base (ft)	Weight (lb)	a	b	c	S_{az}	Horizontal Force (lb)	Vertical Force (lb)
13	245.00	762	1.815	1.608	1.004	0.338	111	940
12	230.00	1,848	1.600	0.778	0.670	0.233	186	2,282
11	210.00	3,352	1.334	0.170	0.367	0.133	194	4,139
10	190.00	4,359	1.092	-0.074	0.182	0.076	144	5,382
9	170.00	5,189	0.874	-0.121	0.078	0.052	116	6,408
8	150.00	6,139	0.680	-0.081	0.026	0.047	124	7,580
7	130.00	6,748	0.511	-0.020	0.008	0.047	139	8,332
6	110.00	7,149	0.366	0.028	0.008	0.046	143	8,828
5	90.00	7,793	0.245	0.056	0.018	0.041	138	9,623
4	70.00	8,384	0.148	0.068	0.030	0.034	123	10,353
3	50.00	10,379	0.076	0.072	0.040	0.027	122	12,815
2	30.00	10,342	0.027	0.067	0.040	0.021	95	12,770
1	10.00	11,124	0.003	0.037	0.021	0.011	52	13,735
Generic 10' Omni	250.00	50	1.890	1.980	1.140	0.378	8	62
Decibel DB809DK-XT	250.00	64	1.890	1.980	1.140	0.378	10	79
Box Enclosures BEN-92P	250.00	2	1.890	1.980	1.140	0.378	0	3
Alcatel-Lucent RRH2x50-08	246.00	317	1.830	1.678	1.030	0.345	48	392
Alcatel-Lucent 1900 MHz 4X45	246.00	180	1.830	1.678	1.030	0.345	27	222
Alcatel-Lucent TD-RRH8x20-25	246.00	198	1.830	1.678	1.030	0.345	30	244
RFS APXVSP18-C-A20	246.00	171	1.830	1.678	1.030	0.345	26	211
Round Sector Frames	246.00	900	1.830	1.678	1.030	0.345	135	1,111
KMW ETCR-654L12H6	246.00	255	1.830	1.678	1.030	0.345	38	314
Procom CXL 900-3LW	236.00	2	1.684	1.063	0.791	0.271	0	2
Generic 5" x 3" x 2" Cavity Filter	236.00	2	1.684	1.063	0.791	0.271	0	2
Generic Low Noise Amplifier	236.00	2	1.684	1.063	0.791	0.271	0	2
Ericsson Radio 4449 B12,B71	225.00	222	1.531	0.580	0.580	0.204	20	274
Ericsson AIR 21, 1.3M, B2A B4P	225.00	275	1.531	0.580	0.580	0.204	24	339
Ericsson AIR 21, 1.3M, B4A B2P	225.00	271	1.531	0.580	0.580	0.204	24	335
Round Sector Frames	225.00	900	1.531	0.580	0.580	0.204	79	1,111
RFS APXVAARR24_43-U-NA20	225.00	384	1.531	0.580	0.580	0.204	34	474
Andrew SMR08-09012-0D	210.00	312	1.334	0.170	0.367	0.133	18	385
Round Sector Frames	210.00	900	1.334	0.170	0.367	0.133	52	1,111
Sinclair SC479-HF1LDF(E5765)	207.00	34	1.296	0.115	0.332	0.122	2	42
Bird 432E-831-01-T	200.00	25	1.210	0.014	0.262	0.100	1	31
Flat Side Arm	200.00	450	1.210	0.014	0.262	0.100	20	556
Sinclair SC479-HF1LDF(E5765)	192.00	68	1.115	-0.061	0.196	0.080	2	84
LGP Allgon LGP21903	175.00	33	0.926	-0.121	0.098	0.056	1	41
Raycap DC6-48-60-18-8F (23.5"	175.00	20	0.926	-0.121	0.098	0.056	0	25

Site Number: 6260

Code:

ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Equivalent Modal Analysis Method

Powerwave Allgon LGP17201	175.00	186	0.926	-0.121	0.098	0.056	4	230
Ericsson RRUS-11 1900 MHz	175.00	132	0.926	-0.121	0.098	0.056	3	163
KMW AM-X-CD-14-65-00T-RET	175.00	36	0.926	-0.121	0.098	0.056	1	45
Allgon 7770.00	175.00	210	0.926	-0.121	0.098	0.056	5	259
Andrew SBNH-1D6565C (60.8 lbs)	175.00	61	0.926	-0.121	0.098	0.056	1	75
Powerwave Allgon P65-17-XLH-	175.00	59	0.926	-0.121	0.098	0.056	1	73
Round Sector Frames	175.00	900	0.926	-0.121	0.098	0.056	22	1,111
Flat Side Arm	164.00	150	0.813	-0.114	0.058	0.049	3	185
Flat Side Arm	164.00	150	0.813	-0.114	0.058	0.049	3	185
Flat Light Sector Frame	158.00	1,200	0.755	-0.102	0.042	0.047	25	1,482
Kathrein Scala 860 10025	155.00	7	0.727	-0.095	0.035	0.047	0	9
Kathrein Scala 800 10504	155.00	106	0.727	-0.095	0.035	0.047	2	130
Generic 24" x 24" Ice Shield	96.00	50	0.279	0.050	0.014	0.043	1	62
Generic 6' Dish w/ Radome	89.00	250	0.240	0.057	0.018	0.041	4	309
RFS PA6-65AC w/ Radome	83.00	308	0.208	0.062	0.022	0.038	5	380
		93,409	58.521	23.670	20.309	7.676	2,368	115,339

LoadCase (0.9 - 0.2Sds) * DL + E

Seismic (Reduced DL)

Section	Height Above Base (ft)	Weight (lb)	a	b	c	S _{az}	Horizontal Force (lb)	Vertical Force (lb)
13	245.00	762	1.815	1.608	1.004	0.338	111	659
12	230.00	1,848	1.600	0.778	0.670	0.233	186	1,599
11	210.00	3,352	1.334	0.170	0.367	0.133	194	2,900
10	190.00	4,359	1.092	-0.074	0.182	0.076	144	3,771
9	170.00	5,189	0.874	-0.121	0.078	0.052	116	4,490
8	150.00	6,139	0.680	-0.081	0.026	0.047	124	5,311
7	130.00	6,748	0.511	-0.020	0.008	0.047	139	5,838
6	110.00	7,149	0.366	0.028	0.008	0.046	143	6,186
5	90.00	7,793	0.245	0.056	0.018	0.041	138	6,743
4	70.00	8,384	0.148	0.068	0.030	0.034	123	7,254
3	50.00	10,379	0.076	0.072	0.040	0.027	122	8,980
2	30.00	10,342	0.027	0.067	0.040	0.021	95	8,948
1	10.00	11,124	0.003	0.037	0.021	0.011	52	9,625
Generic 10' Omni	250.00	50	1.890	1.980	1.140	0.378	8	43
Decibel DB809DK-XT	250.00	64	1.890	1.980	1.140	0.378	10	55
Box Enclosures BEN-92P	250.00	2	1.890	1.980	1.140	0.378	0	2
Alcatel-Lucent RRH2x50-08	246.00	317	1.830	1.678	1.030	0.345	48	275
Alcatel-Lucent 1900 MHz 4X45	246.00	180	1.830	1.678	1.030	0.345	27	156
Alcatel-Lucent TD-RRH8x20-25	246.00	198	1.830	1.678	1.030	0.345	30	171
RFS APXVSP18-C-A20	246.00	171	1.830	1.678	1.030	0.345	26	148
Round Sector Frames	246.00	900	1.830	1.678	1.030	0.345	135	779
KMW ETCR-654L12H6	246.00	255	1.830	1.678	1.030	0.345	38	220
Procom CXL 900-3LW	236.00	2	1.684	1.063	0.791	0.271	0	1
Generic 5" x 3" x 2" Cavity Filter	236.00	2	1.684	1.063	0.791	0.271	0	1
Generic Low Noise Amplifier	236.00	2	1.684	1.063	0.791	0.271	0	2
Ericsson Radio 4449 B12,B71	225.00	222	1.531	0.580	0.580	0.204	20	192
Ericsson AIR 21, 1.3M, B2A B4P	225.00	275	1.531	0.580	0.580	0.204	24	238
Ericsson AIR 21, 1.3M, B4A B2P	225.00	271	1.531	0.580	0.580	0.204	24	235
Round Sector Frames	225.00	900	1.531	0.580	0.580	0.204	79	779
RFS APXVAARR24_43-U-NA20	225.00	384	1.531	0.580	0.580	0.204	34	332
Andrew SMR08-09012-0D	210.00	312	1.334	0.170	0.367	0.133	18	270
Round Sector Frames	210.00	900	1.334	0.170	0.367	0.133	52	779
Sinclair SC479-HF1LDF(E5765)	207.00	34	1.296	0.115	0.332	0.122	2	29
Bird 432E-83I-01-T	200.00	25	1.210	0.014	0.262	0.100	1	22
Flat Side Arm	200.00	450	1.210	0.014	0.262	0.100	20	389
Sinclair SC479-HF1LDF(E5765)	192.00	68	1.115	-0.061	0.196	0.080	2	59
LGP Allgon LGP21903	175.00	33	0.926	-0.121	0.098	0.056	1	29
Raycap DC6-48-60-18-8F (23.5"	175.00	20	0.926	-0.121	0.098	0.056	0	17
Powerwave Allgon LGP17201	175.00	186	0.926	-0.121	0.098	0.056	4	161
Ericsson RRUS-11 1900 MHz	175.00	132	0.926	-0.121	0.098	0.056	3	114
KMW AM-X-CD-14-65-00T-RET	175.00	36	0.926	-0.121	0.098	0.056	1	31
Allgon 7770.00	175.00	210	0.926	-0.121	0.098	0.056	5	182

Site Number: 6260

Code:

ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

7/18/2019 9:45:31 PM

Customer: T-MOBILE

Equivalent Modal Analysis Method

Andrew SBNH-1D6565C (60.8 lbs)	175.00	61	0.926	-0.121	0.098	0.056	1	53
Powerwave Allgon P65-17-XLH-	175.00	59	0.926	-0.121	0.098	0.056	1	51
Round Sector Frames	175.00	900	0.926	-0.121	0.098	0.056	22	779
Flat Side Arm	164.00	150	0.813	-0.114	0.058	0.049	3	130
Flat Side Arm	164.00	150	0.813	-0.114	0.058	0.049	3	130
Flat Light Sector Frame	158.00	1,200	0.755	-0.102	0.042	0.047	25	1,038
Kathrein Scala 860 10025	155.00	7	0.727	-0.095	0.035	0.047	0	6
Kathrein Scala 800 10504	155.00	106	0.727	-0.095	0.035	0.047	2	91
Generic 24" x 24" Ice Shield	96.00	50	0.279	0.050	0.014	0.043	1	43
Generic 6' Dish w/ Radome	89.00	250	0.240	0.057	0.018	0.041	4	216
RFS PA6-65AC w/ Radome	83.00	308	0.208	0.062	0.022	0.038	5	266
		93,409	58.521	23.670	20.309	7.676	2,368	80,820

Site Number: 6260

Code: ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 1		Base	Bot Elev (ft): 0.00				Height (ft): 20.000								
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG SOL - 5 3/4" SOLID		-581.42	1.2D + 1.6W Normal	20.03	25	25	25	41.8	50.0	1,028.3	0	0	0.00	0.00	56 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG DAE - 3X3X0.25		-21.93	1.2D + 1.6W 90 deg	33.60	25	49	13	167.5	36.0	23.19	4	2	49.70	69.60	94 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG SOL - 5 3/4" SOLID		496.98	0.9D + 1.6W 60 deg	50	65	1,168.5	0	0	0.00	0.00		42	Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG DAE - 3X3X0.25		20.60	1.2D + 1.6W 90 deg	36	58	81.73	4	2	49.70	55.68	41.05	50	Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		473.85	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		557.56	1.2D + 1.6W Normal	0.00	0		
Bot Tension		519.77	0.9D + 1.6W 180 deg	1373.63	46	6	2.75" A36
Bot Compression		606.45	1.2D + 1.6W Normal	1373.63	53	6	2.75" A36

Section: 2		1	Bot Elev (ft): 20.00				Height (ft): 20.000								
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG SOL - 5 1/2" SOLID		-531.04	1.2D + 1.6W Normal	20.03	25	25	25	43.7	50.0	929.73	0	0	0.00	0.00	57 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG DAE - 3X3X0.25		-22.27	1.2D + 1.6W 90 deg	32.02	25	50	13	161.9	36.0	24.81	4	2	49.70	69.60	89 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG SOL - 5 1/2" SOLID		452.67	0.9D + 1.6W 60 deg	50	65	1,069.1	0	0	0.00	0.00		42	Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG DAE - 3X3X0.25		22.22	1.2D + 1.6W 90 deg	36	58	81.73	4	2	49.70	55.68	41.05	54	Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		427.88	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		505.34	1.2D + 1.6W Normal	0.00	0		
Bot Tension		473.85	0.9D + 1.6W 180 deg	1349.04	35	6	2" A325
Bot Compression		0.00		0.00	0		

Site Number: 6260

Code: ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 3		2		Bot Elev (ft): 40.00				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 5 1/4" SOLID	-475.39	1.2D + 1.6W Normal	20.03	25	25	25	45.8	50.0	835.70	0	0	0.00	0.00	56 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 3X3X0.25	-22.67	1.2D + 1.6W 90 deg	30.48	25	50	13	154.2	36.0	27.37	4	2	49.70	69.60	82 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 5 1/4" SOLID	400.93	1.2D + 1.6W 60 deg	50	65	974.16	0	0	0.00	0.00			41 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 3X3X0.25	21.57	1.2D + 1.6W 90 deg	36	58	81.73	4	2	49.70	55.68	41.05		52 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		381.49	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		448.64	1.2D + 1.6W Normal	0.00	0		
Bot Tension		427.88	0.9D + 1.6W 180 deg	1349.04	32	6	2" A325
Bot Compression		0.00		0.00	0		

Section: 4		3		Bot Elev (ft): 60.00				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 5" SOLID	-417.54	1.2D + 1.6W Normal	20.03	25	25	25	48.1	50.0	746.17	0	0	0.00	0.00	55 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 3X3X0.1875	-21.97	1.2D + 1.6W 90 deg	29.00	25	49	13	145.0	36.0	23.41	4	2	49.70	52.20	93 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 5" SOLID	353.90	1.2D + 1.6W 60 deg	50	65	883.58	0	0	0.00	0.00			40 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 3X3X0.1875	21.42	1.2D + 1.6W 90 deg	36	58	61.95	4	2	49.70	41.76	30.79		69 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		333.45	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		390.96	1.2D + 1.6W Normal	0.00	0		
Bot Tension		381.49	0.9D + 1.6W 180 deg	758.83	50	6	1.5" A325
Bot Compression		0.00		0.00	0		

Site Number: 6260

Code: ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 5		4		Bot Elev (ft): 80.00				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 4 3/4" SOLID	-360.96	1.2D + 1.6W Normal	20.03	25	25	25	50.6	50.0	661.25	0	0	0.00	0.00	54 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 3X3X0.1875	-20.62	1.2D + 1.6W 90 deg	27.59	25	50	13	140.0	36.0	25.12	4	2	49.70	52.20	82 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 4 3/4" SOLID	311.60	0.9D + 1.6W 60 deg	50	65	797.45	0	0	0.00	0.00			39 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 3X3X0.1875	20.15	1.2D + 1.6W 90 deg	36	58	61.95	4	2	49.70	41.76	30.79		65 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		285.78	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		334.11	1.2D + 1.6W Normal	0.00	0		
Bot Tension		333.45	0.9D + 1.6W 180 deg	758.83	44	6	1.5" A325
Bot Compression		0.00		0.00	0		

Section: 6		5		Bot Elev (ft): 100.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 4 1/2" SOLID	-303.38	1.2D + 1.6W Normal	20.03	25	25	25	53.4	50.0	580.89	0	0	0.00	0.00	52 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 3X3X0.1875	-20.21	1.2D + 1.6W 90 deg	26.25	25	50	13	133.2	36.0	27.74	4	2	49.70	52.20	72 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 4 1/2" SOLID	258.52	1.2D + 1.6W 60 deg	50	65	715.68	0	0	0.00	0.00			36 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 3X3X0.1875	19.29	1.2D + 1.6W 90 deg	36	58	61.95	4	2	49.70	41.76	30.79		62 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		236.63	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		277.33	1.2D + 1.6W Normal	0.00	0		
Bot Tension		285.78	0.9D + 1.6W 180 deg	758.83	38	6	1.5" A325
Bot Compression		0.00		0.00	0		

Site Number: 6260

Code: ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 7		6		Bot Elev (ft): 120.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 4 1/4" SOLID	-262.28	1.2D + 1.6W Normal	10.02	50	50	50	56.6	50.0	505.21	0	0	0.00	0.00	51 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 2.5X2.5X0.1875	-13.19	1.2D + 1.6W 90 deg	18.44	50	50	25	145.9	36.0	19.09	4	2	49.70	52.20	69 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 4 1/4" SOLID	223.66	1.2D + 1.6W 60 deg	50	65	638.37	0	0	0.00	0.00			35 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 2.5X2.5X0.1875	13.30	1.2D + 1.6W 90 deg	36	58	49.55	4	2	49.70	41.76	28.75		46 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		190.56	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		221.74	1.2D + 1.6W Normal	0.00	0		
Bot Tension		236.63	0.9D + 1.6W 180 deg	623.64	38	6	1.375" A325
Bot Compression		0.00		0.00	0		

Section: 8		7		Bot Elev (ft): 140.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 4" SOLID	-207.97	1.2D + 1.6W Normal	10.02	50	50	50	60.1	50.0	434.22	0	0	0.00	0.00	47 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	DAE - 2.5X2.5X0.1875	-12.20	1.2D + 1.6W 210 deg	16.80	50	50	25	132.9	36.0	23.01	4	2	49.70	52.20	53 Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 4" SOLID	176.84	1.2D + 1.6W 60 deg	50	65	565.47	0	0	0.00	0.00			31 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	DAE - 2.5X2.5X0.1875	12.13	1.2D + 1.6W 90 deg	36	58	49.55	4	2	49.70	41.76	28.75		42 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		143.01	0.9D + 1.6W 60 deg	0.00	0	0	
Top Compression		167.61	1.2D + 1.6W 120 deg	0.00	0		
Bot Tension		190.56	0.9D + 1.6W 180 deg	523.32	36	6	1.25" A325
Bot Compression		0.00		0.00	0		

Site Number: 6260

Code: ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 9		8		Bot Elev (ft): 160.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	-153.78	1.2D + 1.6W Normal	10.02	50	50	50	64.1	50.0	368.03	0	0	0.00	0.00	41 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3.5X3.5X0.25	-10.42	1.2D + 1.6W 90 deg	15.24	50	50	50	132.9	36.0	21.60	2	1	24.85	34.80	48 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	130.93	1.2D + 1.6W 60 deg	50	65	497.02	0	0	0.00	0.00			26 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	SAE - 3.5X3.5X0.25	10.35	1.2D + 1.6W 90 deg	36	58	49.02	2	1	24.85	27.84	23.25		44 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		101.68	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		118.33	1.2D + 1.6W Normal	0.00	0		
Bot Tension		143.01	0.9D + 1.6W 60 deg	412.17	35	6	1 1/8 A325
Bot Compression		0.00		0.00	0		

Section: 10		10		Bot Elev (ft): 180.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	-110.83	1.2D + 1.6W Normal	6.68	100	100	100	85.5	50.0	291.33	0	0	0.00	0.00	38 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3X3X0.1875	-6.84	1.2D + 1.6W 90 deg	11.74	50	50	50	118.7	36.0	16.83	2	1	24.85	26.10	40 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	94.84	1.2D + 1.6W 60 deg	50	65	497.02	0	0	0.00	0.00			19 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	SAE - 3X3X0.1875	6.83	1.2D + 1.6W 90 deg	36	58	30.97	2	1	24.85	20.88	15.39		44 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		63.18	0.9D + 1.6W 180 deg	0.00	0	0	
Top Compression		74.52	1.2D + 1.6W Normal	0.00	0		
Bot Tension		101.68	0.9D + 1.6W 180 deg	412.17	25	6	1 1/8 A325
Bot Compression		0.00		0.00	0		

Site Number: 6260

Code: ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 11		11		Bot Elev (ft): 200.0				Height (ft): 20.000								
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phiT Pn (kip)	Use %	Controls
Max Compression Member																
LEG	SOL - 3 1/4" SOLID	-67.01	1.2D + 1.6W Normal	6.68	100	100	100	98.6	50.0	183.32	0	0	0.00	0.00	36	Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 2.5X2.5X0.1875	-5.81	1.2D + 1.6W 90 deg	10.16	50	50	50	123.2	36.0	13.15	2	1	24.85	26.10	44	Member Z
Max Tension Member																
LEG	SOL - 3 1/4" SOLID	56.29	1.2D + 1.6W 60 deg	50	65	373.32	0	0	0.00	0.00	0	0			15	Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 2.5X2.5X0.1875	5.73	1.2D + 1.6W 90 deg	36	58	24.84	2	1	24.85	20.88			14.38	39	Blk Shear	
Max Splice Forces																
		Pu (kip)	Load Case		phiRnt (kip)	Use %	Num Bolts	Bolt Type								
	Top Tension	30.64	0.9D + 1.6W 180 deg		0.00	0	0									
	Top Compression	37.10	1.2D + 1.6W Normal		0.00	0	0									
	Bot Tension	63.18	0.9D + 1.6W 180 deg		327.10	19	6	1 A325								
	Bot Compression	0.00			0.00	0										

Section: 12		12		Bot Elev (ft): 220.0				Height (ft): 20.000								
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phiT Pn (kip)	Use %	Controls
Max Compression Member																
LEG	SOL - 2 1/4" SOLID	-32.32	1.2D + 1.6W Normal	5.01	100	100	100	106.8	50.0	77.66	0	0	0.00	0.00	41	Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 1.75X1.75X0.18	-3.57	1.2D + 1.6W 90 deg	7.621	50	50	50	133.3	36.0	7.89	2	1	15.90	20.88	45	Member Z
Max Tension Member																
LEG	SOL - 2 1/4" SOLID	26.18	1.2D + 1.6W 60 deg	50	65	178.92	0	0	0.00	0.00	0	0			14	Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 1.75X1.75X0.18	3.53	1.2D + 1.6W 90 deg	36	58	16.44	2	1	15.90	16.64			9.99	35	Blk Shear	
Max Splice Forces																
		Pu (kip)	Load Case		phiRnt (kip)	Use %	Num Bolts	Bolt Type								
	Top Tension	7.23	0.9D + 1.6W 180 deg		0.00	0	0									
	Top Compression	9.76	1.2D + 1.6W Normal		0.00	0	0									
	Bot Tension	30.64	0.9D + 1.6W 180 deg		122.04	25	6	5/8 A325								
	Bot Compression	0.00			0.00	0										

Site Number: 6260

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Force/Stress Summary

Section: 13		13		Bot Elev (ft): 240.0				Height (ft): 10.000				Shear		Bear		Use	
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic (kip)	Pn (Bolts)	Num (Holes)	phiRnv (kip)	phiRn (kip)	Use %	Controls		
LEG	SOL - 2" SOLID	-5.90	1.2D + 1.6W Normal	5.00	100	100	100	120.0	50.0	49.29	0	0	0.00	0.00	11	Member X	
HORIZ	SAE - 2X2X0.1875	-0.20	1.2D + 1.6W Normal	4.000	100	100	100	121.8	36.0	10.61	1	1	12.43	13.05	1	Member Z	
DIAG	SAE - 1.75X1.75X0.18	-2.52	1.2D + 1.6W 90 deg	6.403	50	50	50	114.0	36.0	10.15	2	1	15.90	20.88	24	Member Z	
Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit (kip)	Pn (Bolts)	Num (Holes)	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls				
LEG	SOL - 2" SOLID	3.62	1.2D + 1.6W 60 deg	50	65	141.37	0	0	0.00	0.00			2	Member			
HORIZ	SAE - 2X2X0.1875	0.17	1.2D + 1.6W 60 deg	36	58	18.74	1	1	12.43	7.83	6.83		2	Blk Shear			
DIAG	SAE - 1.75X1.75X0.18	2.43	1.2D + 1.6W 90 deg	36	58	16.44	2	1	15.90	16.64	9.99		24	Blk Shear			
Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type										
Top Tension		0.00		0.00	0	0											
Top Compression		0.65	1.2D + 1.0Di + 1.0Wi	0.00	0												
Bot Tension		7.23	0.9D + 1.6W 180 deg	81.36	9	4	5/8 A325										
Bot Compression		0.00		0.00	0												

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

Detailed Reactions

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal	16.17	00.00	0	1	0.00	606.19	-61.89	
	16.17	00.00	120	1a	20.50	-247.05	-21.12	
	16.17	00.00	240	1b	-20.50	-247.05	-21.12	
1.2D + 1.6W 60 deg	16.17	00.00	0	1	-8.05	309.56	-30.07	
	16.17	00.00	120	1a	-30.05	309.48	8.07	
	16.17	00.00	240	1b	-47.63	-506.95	-27.50	
1.2D + 1.6W 90 deg	16.17	00.00	0	1	-9.17	37.37	-1.47	
	16.17	00.00	120	1a	-47.28	514.02	21.75	
	16.17	00.00	240	1b	-43.82	-439.30	-20.27	
1.2D + 1.6W 120 deg	16.17	00.00	0	1	-8.04	-247.05	28.32	
	16.17	00.00	120	1a	-53.59	606.12	30.93	
	16.17	00.00	240	1b	-28.54	-246.98	-7.19	
1.2D + 1.6W 180 deg	16.17	00.00	0	1	0.00	-507.02	55.01	
	16.17	00.00	120	1a	-22.02	309.56	21.99	
	16.17	00.00	240	1b	22.02	309.56	21.99	
1.2D + 1.6W 210 deg	16.17	00.00	0	1	4.36	-439.38	48.10	
	16.17	00.00	120	1a	3.30	37.41	8.67	
	16.17	00.00	240	1b	42.48	514.06	30.07	
1.2D + 1.6W 240 deg	16.17	00.00	0	1	8.04	-247.05	28.32	
	16.17	00.00	120	1a	28.54	-246.98	-7.19	
	16.17	00.00	240	1b	53.59	606.12	30.93	
1.2D + 1.6W 300 deg	16.17	00.00	0	1	8.05	309.56	-30.07	
	16.17	00.00	120	1a	47.63	-506.95	-27.50	
	16.17	00.00	240	1b	30.05	309.48	8.07	
1.2D + 1.6W 330 deg	16.17	00.00	0	1	4.81	514.10	-51.83	
	16.17	00.00	120	1a	39.47	-439.34	-27.81	
	16.17	00.00	240	1b	5.85	37.33	-7.20	
0.9D + 1.6W Normal	16.17	00.00	0	1	0.00	596.28	-61.38	
	16.17	00.00	120	1a	20.96	-256.11	-21.37	
	16.17	00.00	240	1b	-20.96	-256.11	-21.37	
0.9D + 1.6W 60 deg	16.17	00.00	0	1	-8.03	299.94	-29.56	
	16.17	00.00	120	1a	-29.61	299.87	7.83	
	16.17	00.00	240	1b	-48.09	-515.74	-27.76	
0.9D + 1.6W 90 deg	16.17	00.00	0	1	-9.16	28.03	-0.97	
	16.17	00.00	120	1a	-46.84	504.20	21.50	
	16.17	00.00	240	1b	-44.28	-448.16	-20.54	
0.9D + 1.6W 120 deg	16.17	00.00	0	1	-8.04	-256.11	28.84	
	16.17	00.00	120	1a	-53.15	596.21	30.68	
	16.17	00.00	240	1b	-28.98	-256.03	-7.46	
0.9D + 1.6W 180 deg	16.17	00.00	0	1	0.00	-515.81	55.54	
	16.17	00.00	120	1a	-21.60	299.94	21.73	
	16.17	00.00	240	1b	21.60	299.94	21.73	
0.9D + 1.6W 210 deg	16.17	00.00	0	1	4.36	-448.24	48.63	
	16.17	00.00	120	1a	3.73	28.07	8.41	

Site Number: 6260

Code:

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	16.17	00.00	240	1b	42.05	504.24	29.81
0.9D + 1.6W 240 deg	16.17	00.00	0	1	8.04	-256.11	28.84
	16.17	00.00	120	1a	28.98	-256.03	-7.46
	16.17	00.00	240	1b	53.15	596.21	30.68
0.9D + 1.6W 300 deg	16.17	00.00	0	1	8.03	299.94	-29.56
	16.17	00.00	120	1a	48.09	-515.74	-27.76
	16.17	00.00	240	1b	29.61	299.87	7.83
0.9D + 1.6W 330 deg	16.17	00.00	0	1	4.80	504.28	-51.33
	16.17	00.00	120	1a	39.93	-448.20	-28.08
	16.17	00.00	240	1b	5.41	27.99	-7.44
1.2D + 1.0Di + 1.0Wi Normal	16.17	00.00	0	1	0.00	295.23	-26.12
	16.17	00.00	120	1a	3.03	8.03	-5.13
	16.17	00.00	240	1b	-3.03	8.03	-5.13
1.2D + 1.0Di + 1.0Wi 60 deg	16.17	00.00	0	1	-2.94	198.96	-15.55
	16.17	00.00	120	1a	-14.94	198.94	5.23
	16.17	00.00	240	1b	-13.31	-86.60	-7.68
1.2D + 1.0Di + 1.0Wi 90 deg	16.17	00.00	0	1	-3.38	103.77	-5.22
	16.17	00.00	120	1a	-20.93	268.86	10.11
	16.17	00.00	240	1b	-11.79	-61.32	-4.89
1.2D + 1.0Di + 1.0Wi 120 deg	16.17	00.00	0	1	-2.93	8.03	5.19
	16.17	00.00	120	1a	-22.62	295.22	13.06
	16.17	00.00	240	1b	-5.95	8.05	-0.06
1.2D + 1.0Di + 1.0Wi 180 deg	16.17	00.00	0	1	0.00	-86.61	15.37
	16.17	00.00	120	1a	-12.00	198.96	10.32
	16.17	00.00	240	1b	12.00	198.96	10.32
1.2D + 1.0Di + 1.0Wi 210 deg	16.17	00.00	0	1	1.66	-61.34	12.66
	16.17	00.00	120	1a	-2.83	103.78	5.53
	16.17	00.00	240	1b	19.22	268.87	13.07
1.2D + 1.0Di + 1.0Wi 240 deg	16.17	00.00	0	1	2.93	8.03	5.19
	16.17	00.00	120	1a	5.95	8.05	-0.06
	16.17	00.00	240	1b	22.62	295.22	13.06
1.2D + 1.0Di + 1.0Wi 300 deg	16.17	00.00	0	1	2.94	198.96	-15.55
	16.17	00.00	120	1a	13.31	-86.60	-7.68
	16.17	00.00	240	1b	14.94	198.94	5.23
1.2D + 1.0Di + 1.0Wi 330 deg	16.17	00.00	0	1	1.71	268.87	-23.18
	16.17	00.00	120	1a	10.13	-61.33	-7.77
	16.17	00.00	240	1b	6.21	103.76	-0.31
(1.2 + 0.2Sds) * DL + E Normal M1	16.17	00.00	0	1	0.00	64.69	-4.67
	16.17	00.00	120	1a	-0.88	21.89	0.23
	16.17	00.00	240	1b	0.88	21.89	0.23
(1.2 + 0.2Sds) * DL + E Normal M2	16.17	00.00	0	1	0.00	52.70	-3.54
	16.17	00.00	120	1a	-1.31	27.89	0.61
	16.17	00.00	240	1b	1.31	27.89	0.61
(1.2 + 0.2Sds) * DL + E 60 deg M1	16.17	00.00	0	1	-0.24	50.42	-3.41
	16.17	00.00	120	1a	-3.07	50.42	1.49
	16.17	00.00	240	1b	-0.34	7.63	-0.20
(1.2 + 0.2Sds) * DL + E 60 deg M2	16.17	00.00	0	1	-0.12	44.43	-2.84
	16.17	00.00	120	1a	-2.52	44.43	1.31
	16.17	00.00	240	1b	0.64	19.62	0.37

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(1.2 + 0.2Sds) * DL + E 90 deg M1	16.17	00.00	0	1	-0.28	36.16	-2.14
	16.17	00.00	120	1a	-3.82	60.86	2.04
	16.17	00.00	240	1b	-0.11	11.45	0.09
(1.2 + 0.2Sds) * DL + E 90 deg M2	16.17	00.00	0	1	-0.14	36.16	-2.14
	16.17	00.00	120	1a	-2.94	50.48	1.61
	16.17	00.00	240	1b	0.77	21.83	0.53
(1.2 + 0.2Sds) * DL + E 120 deg M1	16.17	00.00	0	1	-0.24	21.89	-0.87
	16.17	00.00	120	1a	-4.05	64.69	2.34
	16.17	00.00	240	1b	0.64	21.89	0.65
(1.2 + 0.2Sds) * DL + E 120 deg M2	16.17	00.00	0	1	-0.12	27.89	-1.44
	16.17	00.00	120	1a	-3.07	52.70	1.77
	16.17	00.00	240	1b	1.19	27.89	0.83
(1.2 + 0.2Sds) * DL + E 180 deg M1	16.17	00.00	0	1	0.00	7.63	0.39
	16.17	00.00	120	1a	-2.83	50.42	1.91
	16.17	00.00	240	1b	2.83	50.42	1.91
(1.2 + 0.2Sds) * DL + E 180 deg M2	16.17	00.00	0	1	0.00	19.62	-0.74
	16.17	00.00	120	1a	-2.40	44.43	1.53
	16.17	00.00	240	1b	2.40	44.43	1.53
(1.2 + 0.2Sds) * DL + E 210 deg M1	16.17	00.00	0	1	0.14	11.45	0.05
	16.17	00.00	120	1a	-1.71	36.16	1.31
	16.17	00.00	240	1b	3.68	60.86	2.29
(1.2 + 0.2Sds) * DL + E 210 deg M2	16.17	00.00	0	1	0.07	21.83	-0.93
	16.17	00.00	120	1a	-1.78	36.16	1.19
	16.17	00.00	240	1b	2.87	50.48	1.74
(1.2 + 0.2Sds) * DL + E 240 deg M1	16.17	00.00	0	1	0.24	21.89	-0.87
	16.17	00.00	120	1a	-0.64	21.89	0.65
	16.17	00.00	240	1b	4.05	64.69	2.34
(1.2 + 0.2Sds) * DL + E 240 deg M2	16.17	00.00	0	1	0.12	27.89	-1.44
	16.17	00.00	120	1a	-1.19	27.89	0.83
	16.17	00.00	240	1b	3.07	52.70	1.77
(1.2 + 0.2Sds) * DL + E 300 deg M1	16.17	00.00	0	1	0.24	50.42	-3.41
	16.17	00.00	120	1a	0.34	7.63	-0.20
	16.17	00.00	240	1b	3.07	50.42	1.49
(1.2 + 0.2Sds) * DL + E 300 deg M2	16.17	00.00	0	1	0.12	44.43	-2.84
	16.17	00.00	120	1a	-0.64	19.62	0.37
	16.17	00.00	240	1b	2.52	44.43	1.31
(1.2 + 0.2Sds) * DL + E 330 deg M1	16.17	00.00	0	1	0.14	60.86	-4.33
	16.17	00.00	120	1a	-0.02	11.45	-0.15
	16.17	00.00	240	1b	1.99	36.16	0.83
(1.2 + 0.2Sds) * DL + E 330 deg M2	16.17	00.00	0	1	0.07	50.48	-3.35
	16.17	00.00	120	1a	-0.84	21.83	0.40
	16.17	00.00	240	1b	1.92	36.16	0.95
(0.9 - 0.2Sds) * DL + E Normal M1	16.17	00.00	0	1	0.00	53.83	-4.03
	16.17	00.00	120	1a	-0.32	11.09	-0.09
	16.17	00.00	240	1b	0.32	11.09	-0.09
(0.9 - 0.2Sds) * DL + E Normal M2	16.17	00.00	0	1	0.00	41.85	-2.90
	16.17	00.00	120	1a	-0.75	17.08	0.30
	16.17	00.00	240	1b	0.75	17.08	0.30

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(0.9 - 0.2Sds) * DL + E 60 deg M1	16.17	00.00	0	1	-0.24	39.58	-2.77
	16.17	00.00	120	1a	-2.52	39.58	1.17
	16.17	00.00	240	1b	-0.89	-3.16	-0.52
(0.9 - 0.2Sds) * DL + E 60 deg M2	16.17	00.00	0	1	-0.12	33.59	-2.20
	16.17	00.00	120	1a	-1.97	33.59	0.99
	16.17	00.00	240	1b	0.09	8.82	0.05
(0.9 - 0.2Sds) * DL + E 90 deg M1	16.17	00.00	0	1	-0.28	25.34	-1.50
	16.17	00.00	120	1a	-3.27	50.01	1.73
	16.17	00.00	240	1b	-0.67	0.66	-0.23
(0.9 - 0.2Sds) * DL + E 90 deg M2	16.17	00.00	0	1	-0.14	25.34	-1.50
	16.17	00.00	120	1a	-2.39	39.64	1.30
	16.17	00.00	240	1b	0.22	11.03	0.21
(0.9 - 0.2Sds) * DL + E 120 deg M1	16.17	00.00	0	1	-0.24	11.09	-0.23
	16.17	00.00	120	1a	-3.49	53.83	2.02
	16.17	00.00	240	1b	0.08	11.09	0.33
(0.9 - 0.2Sds) * DL + E 120 deg M2	16.17	00.00	0	1	-0.12	17.08	-0.80
	16.17	00.00	120	1a	-2.51	41.85	1.45
	16.17	00.00	240	1b	0.63	17.08	0.51
(0.9 - 0.2Sds) * DL + E 180 deg M1	16.17	00.00	0	1	0.00	-3.16	1.03
	16.17	00.00	120	1a	-2.28	39.58	1.59
	16.17	00.00	240	1b	2.28	39.58	1.59
(0.9 - 0.2Sds) * DL + E 180 deg M2	16.17	00.00	0	1	0.00	8.82	-0.10
	16.17	00.00	120	1a	-1.85	33.59	1.21
	16.17	00.00	240	1b	1.85	33.59	1.21
(0.9 - 0.2Sds) * DL + E 210 deg M1	16.17	00.00	0	1	0.14	0.66	0.69
	16.17	00.00	120	1a	-1.16	25.34	0.99
	16.17	00.00	240	1b	3.13	50.01	1.97
(0.9 - 0.2Sds) * DL + E 210 deg M2	16.17	00.00	0	1	0.07	11.03	-0.29
	16.17	00.00	120	1a	-1.23	25.34	0.87
	16.17	00.00	240	1b	2.32	39.64	1.42
(0.9 - 0.2Sds) * DL + E 240 deg M1	16.17	00.00	0	1	0.24	11.09	-0.23
	16.17	00.00	120	1a	-0.08	11.09	0.33
	16.17	00.00	240	1b	3.49	53.83	2.02
(0.9 - 0.2Sds) * DL + E 240 deg M2	16.17	00.00	0	1	0.12	17.08	-0.80
	16.17	00.00	120	1a	-0.63	17.08	0.51
	16.17	00.00	240	1b	2.51	41.85	1.45
(0.9 - 0.2Sds) * DL + E 300 deg M1	16.17	00.00	0	1	0.24	39.58	-2.77
	16.17	00.00	120	1a	0.89	-3.16	-0.52
	16.17	00.00	240	1b	2.52	39.58	1.17
(0.9 - 0.2Sds) * DL + E 300 deg M2	16.17	00.00	0	1	0.12	33.59	-2.20
	16.17	00.00	120	1a	-0.09	8.82	0.05
	16.17	00.00	240	1b	1.97	33.59	0.99
(0.9 - 0.2Sds) * DL + E 330 deg M1	16.17	00.00	0	1	0.14	50.01	-3.69
	16.17	00.00	120	1a	0.53	0.66	-0.47
	16.17	00.00	240	1b	1.44	25.34	0.51
(0.9 - 0.2Sds) * DL + E 330 deg M2	16.17	00.00	0	1	0.07	39.64	-2.71
	16.17	00.00	120	1a	-0.29	11.03	0.08
	16.17	00.00	240	1b	1.37	25.34	0.63
1.0D + 1.0W Service Normal	16.17	00.00	0	1	0.00	147.21	-13.98

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	16.17	00.00	120	1a	3.00	-26.90	-3.66
	16.17	00.00	240	1b	-3.00	-26.90	-3.66
1.0D + 1.0W Service 60 deg	16.17	00.00	0	1	-1.60	86.60	-7.53
	16.17	00.00	120	1a	-7.32	86.58	2.38
	16.17	00.00	240	1b	-8.61	-79.77	-4.97
1.0D + 1.0W Service 90 deg	16.17	00.00	0	1	-1.86	31.14	-1.70
	16.17	00.00	120	1a	-10.81	128.26	5.15
	16.17	00.00	240	1b	-7.83	-65.99	-3.45
1.0D + 1.0W Service 120 deg	16.17	00.00	0	1	-1.67	-26.81	4.42
	16.17	00.00	120	1a	-12.10	147.02	6.98
	16.17	00.00	240	1b	-4.66	-26.80	-0.76
1.0D + 1.0W Service 180 deg	16.17	00.00	0	1	0.00	-79.79	9.94
	16.17	00.00	120	1a	-5.73	86.60	5.15
	16.17	00.00	240	1b	5.73	86.60	5.15
1.0D + 1.0W Service 210 deg	16.17	00.00	0	1	0.92	-66.00	8.51
	16.17	00.00	120	1a	-0.54	31.14	2.46
	16.17	00.00	240	1b	9.87	128.27	6.78
1.0D + 1.0W Service 240 deg	16.17	00.00	0	1	1.67	-26.81	4.42
	16.17	00.00	120	1a	4.66	-26.80	-0.76
	16.17	00.00	240	1b	12.10	147.02	6.98
1.0D + 1.0W Service 300 deg	16.17	00.00	0	1	1.60	86.60	-7.53
	16.17	00.00	120	1a	8.61	-79.77	-4.97
	16.17	00.00	240	1b	7.32	86.58	2.38
1.0D + 1.0W Service 330 deg	16.17	00.00	0	1	0.94	128.28	-11.94
	16.17	00.00	120	1a	6.91	-66.00	-5.05
	16.17	00.00	240	1b	2.40	31.13	-0.76

Max Uplift:	515.81 (kip)	Moment Ice:	4,642.83 (kip-ft)	Moment:	13,793.36 (kip-ft)	1.2D + 1.6W Normal
Max Down:	606.19 (kip)	Total Down Ice:	311.30 (kip)	Total Down:	112.09 (kip)	
Max Shear:	61.89 (kip)	Total Shear Ice:	36.37 (kip)	Total Shear:	104.12 (kip)	

Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
105 mph Normal with No Ice	80.00	0.199	0.0002	0.2691	0.2691
105 mph Normal with No Ice	100.00	0.306	0.0028	0.3293	0.3293
105 mph Normal with No Ice	150.00	0.662	0.0135	0.5118	0.5119
105 mph Normal with No Ice	160.00	0.751	0.0127	0.5255	0.5256
105 mph Normal with No Ice	170.00	0.847	0.0104	0.5646	0.5647
105 mph Normal with No Ice	193.33	1.092	0.0064	0.6387	0.6387
105 mph Normal with No Ice	200.00	1.168	0.0054	0.6569	0.6570
105 mph Normal with No Ice	206.67	1.245	0.0045	0.6771	0.6771
105 mph Normal with No Ice	225.00	1.469	0.0040	0.7254	0.7254
105 mph Normal with No Ice	235.00	1.597	0.0061	0.7557	0.7557
105 mph Normal with No Ice	245.00	1.731	0.0070	0.7714	0.7715
105 mph Normal with No Ice	250.00	1.797	0.0065	0.7607	0.7607
105 mph 60 degree with No Ice	80.00	0.190	-0.0218	0.2591	0.2596
105 mph 60 degree with No Ice	100.00	0.292	-0.0273	0.3155	0.3161
105 mph 60 degree with No Ice	150.00	0.636	-0.0490	0.4710	0.4726
105 mph 60 degree with No Ice	160.00	0.722	-0.0500	0.5117	0.5131
105 mph 60 degree with No Ice	170.00	0.815	-0.0496	0.5413	0.5426
105 mph 60 degree with No Ice	193.33	1.052	-0.0494	0.6166	0.6176
105 mph 60 degree with No Ice	200.00	1.124	-0.0493	0.6325	0.6334
105 mph 60 degree with No Ice	206.67	1.199	-0.0484	0.6525	0.6532
105 mph 60 degree with No Ice	225.00	1.415	-0.0414	0.7019	0.7025
105 mph 60 degree with No Ice	235.00	1.539	-0.0322	0.7292	0.7293
105 mph 60 degree with No Ice	245.00	1.668	-0.0264	0.7466	0.7471
105 mph 60 degree with No Ice	250.00	1.732	-0.0262	0.7373	0.7376
105 mph 90 degree with No Ice	80.00	0.192	-0.0273	0.2628	0.2642
105 mph 90 degree with No Ice	100.00	0.293	-0.0345	0.3155	0.3160
105 mph 90 degree with No Ice	150.00	0.642	-0.0625	0.4688	0.4716
105 mph 90 degree with No Ice	160.00	0.729	-0.0635	0.5175	0.5195
105 mph 90 degree with No Ice	170.00	0.822	-0.0629	0.5451	0.5463
105 mph 90 degree with No Ice	193.33	1.061	-0.0623	0.6206	0.6214
105 mph 90 degree with No Ice	200.00	1.134	-0.0621	0.6375	0.6392
105 mph 90 degree with No Ice	206.67	1.210	-0.0609	0.6568	0.6593
105 mph 90 degree with No Ice	225.00	1.428	-0.0523	0.7065	0.7070
105 mph 90 degree with No Ice	235.00	1.553	-0.0413	0.7350	0.7362
105 mph 90 degree with No Ice	245.00	1.683	-0.0344	0.7558	0.7566
105 mph 90 degree with No Ice	250.00	1.747	-0.0338	0.7377	0.7379
105 mph 120 degree with No Ice	80.00	0.199	-0.0257	0.2686	0.2690
105 mph 120 degree with No Ice	100.00	0.305	-0.0329	0.3291	0.3294
105 mph 120 degree with No Ice	150.00	0.662	-0.0599	0.4910	0.4922
105 mph 120 degree with No Ice	160.00	0.751	-0.0607	0.5302	0.5310
105 mph 120 degree with No Ice	170.00	0.847	-0.0601	0.5615	0.5626
105 mph 120 degree with No Ice	193.33	1.092	-0.0592	0.6386	0.6392
105 mph 120 degree with No Ice	200.00	1.167	-0.0590	0.6555	0.6563
105 mph 120 degree with No Ice	206.67	1.245	-0.0578	0.6757	0.6763
105 mph 120 degree with No Ice	225.00	1.469	-0.0500	0.7252	0.7255
105 mph 120 degree with No Ice	235.00	1.597	-0.0401	0.7545	0.7546
105 mph 120 degree with No Ice	245.00	1.731	-0.0338	0.7716	0.7724
105 mph 120 degree with No Ice	250.00	1.796	-0.0329	0.7605	0.7607
105 mph 180 degree with No Ice	80.00	0.190	0.0003	0.2598	0.2598
105 mph 180 degree with No Ice	100.00	0.292	0.0037	0.3157	0.3157
105 mph 180 degree with No Ice	150.00	0.636	0.0148	0.4921	0.4924
105 mph 180 degree with No Ice	160.00	0.723	0.0137	0.5081	0.5083
105 mph 180 degree with No Ice	170.00	0.815	0.0117	0.5437	0.5438
105 mph 180 degree with No Ice	193.33	1.052	0.0078	0.6167	0.6167
105 mph 180 degree with No Ice	200.00	1.125	0.0069	0.6342	0.6342

Site Number: 6260

Code:

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

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Customer: T-MOBILE

105 mph 180 degree with No Ice	206.67	1.200	0.0060	0.6543	0.6543
105 mph 180 degree with No Ice	225.00	1.415	0.0058	0.7021	0.7021
105 mph 180 degree with No Ice	235.00	1.539	0.0084	0.7306	0.7307
105 mph 180 degree with No Ice	245.00	1.668	0.0096	0.7465	0.7466
105 mph 180 degree with No Ice	250.00	1.732	0.0086	0.7375	0.7375
105 mph 210 degree with No Ice	80.00	0.192	0.0153	0.2641	0.2642
105 mph 210 degree with No Ice	100.00	0.293	0.0197	0.3163	0.3164
105 mph 210 degree with No Ice	150.00	0.642	0.0362	0.4911	0.4911
105 mph 210 degree with No Ice	160.00	0.729	0.0366	0.5136	0.5140
105 mph 210 degree with No Ice	170.00	0.822	0.0362	0.5480	0.5480
105 mph 210 degree with No Ice	193.33	1.061	0.0354	0.6222	0.6225
105 mph 210 degree with No Ice	200.00	1.135	0.0353	0.6395	0.6395
105 mph 210 degree with No Ice	206.67	1.210	0.0346	0.6599	0.6599
105 mph 210 degree with No Ice	225.00	1.428	0.0298	0.7069	0.7072
105 mph 210 degree with No Ice	235.00	1.553	0.0240	0.7377	0.7377
105 mph 210 degree with No Ice	245.00	1.684	0.0203	0.7556	0.7556
105 mph 210 degree with No Ice	250.00	1.748	0.0197	0.7379	0.7381
105 mph 240 degree with No Ice	80.00	0.199	0.0257	0.2686	0.2690
105 mph 240 degree with No Ice	100.00	0.305	0.0329	0.3291	0.3294
105 mph 240 degree with No Ice	150.00	0.662	0.0599	0.4910	0.4922
105 mph 240 degree with No Ice	160.00	0.751	0.0607	0.5302	0.5310
105 mph 240 degree with No Ice	170.00	0.847	0.0601	0.5615	0.5626
105 mph 240 degree with No Ice	193.33	1.092	0.0592	0.6386	0.6392
105 mph 240 degree with No Ice	200.00	1.167	0.0590	0.6555	0.6563
105 mph 240 degree with No Ice	206.67	1.245	0.0578	0.6757	0.6763
105 mph 240 degree with No Ice	225.00	1.469	0.0500	0.7252	0.7255
105 mph 240 degree with No Ice	235.00	1.597	0.0401	0.7545	0.7546
105 mph 240 degree with No Ice	245.00	1.731	0.0338	0.7716	0.7724
105 mph 240 degree with No Ice	250.00	1.796	0.0329	0.7605	0.7607
105 mph 300 degree with No Ice	80.00	0.190	0.0218	0.2591	0.2596
105 mph 300 degree with No Ice	100.00	0.292	0.0273	0.3155	0.3161
105 mph 300 degree with No Ice	150.00	0.636	0.0490	0.4710	0.4726
105 mph 300 degree with No Ice	160.00	0.722	0.0500	0.5117	0.5131
105 mph 300 degree with No Ice	170.00	0.815	0.0496	0.5413	0.5426
105 mph 300 degree with No Ice	193.33	1.052	0.0494	0.6166	0.6176
105 mph 300 degree with No Ice	200.00	1.124	0.0493	0.6325	0.6334
105 mph 300 degree with No Ice	206.67	1.199	0.0484	0.6525	0.6532
105 mph 300 degree with No Ice	225.00	1.415	0.0414	0.7019	0.7025
105 mph 300 degree with No Ice	235.00	1.539	0.0322	0.7292	0.7293
105 mph 300 degree with No Ice	245.00	1.668	0.0264	0.7466	0.7471
105 mph 300 degree with No Ice	250.00	1.732	0.0262	0.7373	0.7376
105 mph 330 degree with No Ice	80.00	0.193	0.0120	0.2639	0.2641
105 mph 330 degree with No Ice	100.00	0.293	0.0148	0.3165	0.3168
105 mph 330 degree with No Ice	150.00	0.642	0.0263	0.4904	0.4915
105 mph 330 degree with No Ice	160.00	0.729	0.0269	0.5131	0.5137
105 mph 330 degree with No Ice	170.00	0.822	0.0268	0.5485	0.5493
105 mph 330 degree with No Ice	193.33	1.061	0.0268	0.6223	0.6229
105 mph 330 degree with No Ice	200.00	1.135	0.0268	0.6393	0.6398
105 mph 330 degree with No Ice	206.67	1.210	0.0263	0.6594	0.6596
105 mph 330 degree with No Ice	225.00	1.428	0.0225	0.7080	0.7083
105 mph 330 degree with No Ice	235.00	1.553	0.0173	0.7374	0.7374
105 mph 330 degree with No Ice	245.00	1.684	0.0141	0.7556	0.7556
105 mph 330 degree with No Ice	250.00	1.748	0.0141	0.7379	0.7381
105 mph Normal with No Ice (Reduced DL)	80.00	0.199	0.0002	0.2687	0.2687
105 mph Normal with No Ice (Reduced DL)	100.00	0.305	0.0028	0.3286	0.3286
105 mph Normal with No Ice (Reduced DL)	150.00	0.661	0.0136	0.5110	0.5112
105 mph Normal with No Ice (Reduced DL)	160.00	0.750	0.0127	0.5246	0.5248
105 mph Normal with No Ice (Reduced DL)	170.00	0.846	0.0104	0.5636	0.5637
105 mph Normal with No Ice (Reduced DL)	193.33	1.091	0.0065	0.6376	0.6376
105 mph Normal with No Ice (Reduced DL)	200.00	1.166	0.0055	0.6558	0.6558
105 mph Normal with No Ice (Reduced DL)	206.67	1.244	0.0045	0.6759	0.6759
105 mph Normal with No Ice (Reduced DL)	225.00	1.467	0.0040	0.7243	0.7243

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105 mph Normal with No Ice (Reduced DL)	235.00	1.595	0.0061	0.7543	0.7543
105 mph Normal with No Ice (Reduced DL)	245.00	1.728	0.0070	0.7700	0.7701
105 mph Normal with No Ice (Reduced DL)	250.00	1.794	0.0065	0.7596	0.7596
105 mph 60 deg with No Ice (Reduced DL)	80.00	0.190	-0.0218	0.2588	0.2593
105 mph 60 deg with No Ice (Reduced DL)	100.00	0.292	-0.0273	0.3153	0.3158
105 mph 60 deg with No Ice (Reduced DL)	150.00	0.635	-0.0490	0.4702	0.4718
105 mph 60 deg with No Ice (Reduced DL)	160.00	0.721	-0.0500	0.5108	0.5122
105 mph 60 deg with No Ice (Reduced DL)	170.00	0.814	-0.0496	0.5404	0.5416
105 mph 60 deg with No Ice (Reduced DL)	193.33	1.050	-0.0494	0.6156	0.6165
105 mph 60 deg with No Ice (Reduced DL)	200.00	1.123	-0.0492	0.6313	0.6323
105 mph 60 deg with No Ice (Reduced DL)	206.67	1.198	-0.0484	0.6513	0.6520
105 mph 60 deg with No Ice (Reduced DL)	225.00	1.413	-0.0414	0.7005	0.7011
105 mph 60 deg with No Ice (Reduced DL)	235.00	1.537	-0.0322	0.7279	0.7280
105 mph 60 deg with No Ice (Reduced DL)	245.00	1.665	-0.0265	0.7452	0.7457
105 mph 60 deg with No Ice (Reduced DL)	250.00	1.729	-0.0262	0.7357	0.7360
105 mph 90 deg with No Ice (Reduced DL)	80.00	0.192	-0.0273	0.2624	0.2638
105 mph 90 deg with No Ice (Reduced DL)	100.00	0.292	-0.0345	0.3152	0.3157
105 mph 90 deg with No Ice (Reduced DL)	150.00	0.641	-0.0624	0.4680	0.4709
105 mph 90 deg with No Ice (Reduced DL)	160.00	0.728	-0.0635	0.5166	0.5186
105 mph 90 deg with No Ice (Reduced DL)	170.00	0.821	-0.0629	0.5442	0.5455
105 mph 90 deg with No Ice (Reduced DL)	193.33	1.060	-0.0623	0.6195	0.6203
105 mph 90 deg with No Ice (Reduced DL)	200.00	1.133	-0.0620	0.6364	0.6381
105 mph 90 deg with No Ice (Reduced DL)	206.67	1.208	-0.0609	0.6556	0.6582
105 mph 90 deg with No Ice (Reduced DL)	225.00	1.426	-0.0523	0.7051	0.7056
105 mph 90 deg with No Ice (Reduced DL)	235.00	1.551	-0.0413	0.7337	0.7348
105 mph 90 deg with No Ice (Reduced DL)	245.00	1.680	-0.0344	0.7544	0.7552
105 mph 90 deg with No Ice (Reduced DL)	250.00	1.744	-0.0338	0.7362	0.7364
105 mph 120 deg with No Ice (Reduced DL)	80.00	0.199	-0.0257	0.2681	0.2686
105 mph 120 deg with No Ice (Reduced DL)	100.00	0.305	-0.0329	0.3285	0.3288
105 mph 120 deg with No Ice (Reduced DL)	150.00	0.661	-0.0598	0.4902	0.4914
105 mph 120 deg with No Ice (Reduced DL)	160.00	0.750	-0.0606	0.5294	0.5302
105 mph 120 deg with No Ice (Reduced DL)	170.00	0.846	-0.0600	0.5606	0.5616
105 mph 120 deg with No Ice (Reduced DL)	193.33	1.090	-0.0591	0.6375	0.6381
105 mph 120 deg with No Ice (Reduced DL)	200.00	1.166	-0.0589	0.6544	0.6552
105 mph 120 deg with No Ice (Reduced DL)	206.67	1.243	-0.0578	0.6745	0.6751
105 mph 120 deg with No Ice (Reduced DL)	225.00	1.466	-0.0499	0.7241	0.7244
105 mph 120 deg with No Ice (Reduced DL)	235.00	1.595	-0.0401	0.7531	0.7532
105 mph 120 deg with No Ice (Reduced DL)	245.00	1.728	-0.0338	0.7702	0.7710
105 mph 120 deg with No Ice (Reduced DL)	250.00	1.794	-0.0330	0.7594	0.7596
105 mph 180 deg with No Ice (Reduced DL)	80.00	0.190	0.0003	0.2595	0.2595
105 mph 180 deg with No Ice (Reduced DL)	100.00	0.292	0.0037	0.3154	0.3154
105 mph 180 deg with No Ice (Reduced DL)	150.00	0.636	0.0148	0.4915	0.4917
105 mph 180 deg with No Ice (Reduced DL)	160.00	0.722	0.0138	0.5072	0.5074
105 mph 180 deg with No Ice (Reduced DL)	170.00	0.814	0.0118	0.5429	0.5430
105 mph 180 deg with No Ice (Reduced DL)	193.33	1.050	0.0078	0.6157	0.6157
105 mph 180 deg with No Ice (Reduced DL)	200.00	1.123	0.0069	0.6331	0.6332
105 mph 180 deg with No Ice (Reduced DL)	206.67	1.198	0.0060	0.6532	0.6532
105 mph 180 deg with No Ice (Reduced DL)	225.00	1.413	0.0058	0.7007	0.7007
105 mph 180 deg with No Ice (Reduced DL)	235.00	1.537	0.0084	0.7293	0.7294
105 mph 180 deg with No Ice (Reduced DL)	245.00	1.666	0.0095	0.7451	0.7452
105 mph 180 deg with No Ice (Reduced DL)	250.00	1.730	0.0086	0.7359	0.7359
105 mph 210 deg with No Ice (Reduced DL)	80.00	0.192	0.0153	0.2637	0.2638
105 mph 210 deg with No Ice (Reduced DL)	100.00	0.292	0.0197	0.3157	0.3160
105 mph 210 deg with No Ice (Reduced DL)	150.00	0.641	0.0362	0.4904	0.4904
105 mph 210 deg with No Ice (Reduced DL)	160.00	0.728	0.0365	0.5127	0.5131
105 mph 210 deg with No Ice (Reduced DL)	170.00	0.821	0.0361	0.5471	0.5471
105 mph 210 deg with No Ice (Reduced DL)	193.33	1.060	0.0354	0.6211	0.6214
105 mph 210 deg with No Ice (Reduced DL)	200.00	1.133	0.0353	0.6384	0.6384
105 mph 210 deg with No Ice (Reduced DL)	206.67	1.209	0.0346	0.6587	0.6587
105 mph 210 deg with No Ice (Reduced DL)	225.00	1.426	0.0298	0.7057	0.7059
105 mph 210 deg with No Ice (Reduced DL)	235.00	1.551	0.0240	0.7363	0.7363
105 mph 210 deg with No Ice (Reduced DL)	245.00	1.681	0.0203	0.7542	0.7542

Site Number: 6260

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105 mph 210 deg with No Ice (Reduced DL)	250.00	1.745	0.0197	0.7363	0.7366
105 mph 240 deg with No Ice (Reduced DL)	80.00	0.199	0.0257	0.2681	0.2686
105 mph 240 deg with No Ice (Reduced DL)	100.00	0.305	0.0329	0.3285	0.3288
105 mph 240 deg with No Ice (Reduced DL)	150.00	0.661	0.0598	0.4902	0.4914
105 mph 240 deg with No Ice (Reduced DL)	160.00	0.750	0.0606	0.5294	0.5302
105 mph 240 deg with No Ice (Reduced DL)	170.00	0.846	0.0600	0.5606	0.5616
105 mph 240 deg with No Ice (Reduced DL)	193.33	1.090	0.0591	0.6375	0.6381
105 mph 240 deg with No Ice (Reduced DL)	200.00	1.166	0.0589	0.6544	0.6552
105 mph 240 deg with No Ice (Reduced DL)	206.67	1.243	0.0578	0.6745	0.6751
105 mph 240 deg with No Ice (Reduced DL)	225.00	1.466	0.0499	0.7241	0.7244
105 mph 240 deg with No Ice (Reduced DL)	235.00	1.595	0.0401	0.7531	0.7532
105 mph 240 deg with No Ice (Reduced DL)	245.00	1.728	0.0338	0.7702	0.7710
105 mph 240 deg with No Ice (Reduced DL)	250.00	1.794	0.0330	0.7594	0.7596
105 mph 300 deg with No Ice (Reduced DL)	80.00	0.190	0.0218	0.2588	0.2593
105 mph 300 deg with No Ice (Reduced DL)	100.00	0.292	0.0273	0.3153	0.3158
105 mph 300 deg with No Ice (Reduced DL)	150.00	0.635	0.0490	0.4702	0.4718
105 mph 300 deg with No Ice (Reduced DL)	160.00	0.721	0.0500	0.5108	0.5122
105 mph 300 deg with No Ice (Reduced DL)	170.00	0.814	0.0496	0.5404	0.5416
105 mph 300 deg with No Ice (Reduced DL)	193.33	1.050	0.0494	0.6156	0.6165
105 mph 300 deg with No Ice (Reduced DL)	200.00	1.123	0.0492	0.6313	0.6323
105 mph 300 deg with No Ice (Reduced DL)	206.67	1.198	0.0484	0.6513	0.6520
105 mph 300 deg with No Ice (Reduced DL)	225.00	1.413	0.0414	0.7005	0.7011
105 mph 300 deg with No Ice (Reduced DL)	235.00	1.537	0.0322	0.7279	0.7280
105 mph 300 deg with No Ice (Reduced DL)	245.00	1.665	0.0265	0.7452	0.7457
105 mph 300 deg with No Ice (Reduced DL)	250.00	1.729	0.0262	0.7357	0.7360
105 mph 330 deg with No Ice (Reduced DL)	80.00	0.192	0.0120	0.2635	0.2637
105 mph 330 deg with No Ice (Reduced DL)	100.00	0.292	0.0148	0.3163	0.3166
105 mph 330 deg with No Ice (Reduced DL)	150.00	0.641	0.0263	0.4898	0.4907
105 mph 330 deg with No Ice (Reduced DL)	160.00	0.728	0.0269	0.5122	0.5129
105 mph 330 deg with No Ice (Reduced DL)	170.00	0.821	0.0267	0.5476	0.5484
105 mph 330 deg with No Ice (Reduced DL)	193.33	1.060	0.0268	0.6213	0.6218
105 mph 330 deg with No Ice (Reduced DL)	200.00	1.133	0.0268	0.6381	0.6386
105 mph 330 deg with No Ice (Reduced DL)	206.67	1.209	0.0263	0.6582	0.6584
105 mph 330 deg with No Ice (Reduced DL)	225.00	1.426	0.0225	0.7066	0.7069
105 mph 330 deg with No Ice (Reduced DL)	235.00	1.551	0.0173	0.7360	0.7360
105 mph 330 deg with No Ice (Reduced DL)	245.00	1.681	0.0141	0.7542	0.7543
105 mph 330 deg with No Ice (Reduced DL)	250.00	1.745	0.0141	0.7364	0.7366
50 mph Normal with 0.75 in Radial Ice	80.00	0.067	0.0017	0.0903	0.0903
50 mph Normal with 0.75 in Radial Ice	100.00	0.102	0.0013	0.1076	0.1076
50 mph Normal with 0.75 in Radial Ice	150.00	0.218	0.0003	0.1636	0.1636
50 mph Normal with 0.75 in Radial Ice	160.00	0.247	0.0001	0.1703	0.1703
50 mph Normal with 0.75 in Radial Ice	170.00	0.277	0.0008	0.1800	0.1800
50 mph Normal with 0.75 in Radial Ice	193.33	0.355	0.0020	0.2027	0.2027
50 mph Normal with 0.75 in Radial Ice	200.00	0.379	0.0023	0.2076	0.2076
50 mph Normal with 0.75 in Radial Ice	206.67	0.403	0.0026	0.2130	0.2130
50 mph Normal with 0.75 in Radial Ice	225.00	0.474	0.0028	0.2282	0.2282
50 mph Normal with 0.75 in Radial Ice	235.00	0.514	0.0024	0.2364	0.2364
50 mph Normal with 0.75 in Radial Ice	245.00	0.555	0.0021	0.2398	0.2398
50 mph Normal with 0.75 in Radial Ice	250.00	0.576	0.0022	0.2356	0.2356
50 mph 60 deg with 0.75 in Radial Ice	80.00	0.067	-0.0066	0.0911	0.0913
50 mph 60 deg with 0.75 in Radial Ice	100.00	0.103	-0.0081	0.1085	0.1086
50 mph 60 deg with 0.75 in Radial Ice	150.00	0.219	-0.0138	0.1598	0.1600
50 mph 60 deg with 0.75 in Radial Ice	160.00	0.246	-0.0142	0.1699	0.1701
50 mph 60 deg with 0.75 in Radial Ice	170.00	0.277	-0.0141	0.1796	0.1798
50 mph 60 deg with 0.75 in Radial Ice	193.33	0.354	-0.0143	0.2010	0.2012
50 mph 60 deg with 0.75 in Radial Ice	200.00	0.378	-0.0142	0.2076	0.2077
50 mph 60 deg with 0.75 in Radial Ice	206.67	0.402	-0.0141	0.2122	0.2124
50 mph 60 deg with 0.75 in Radial Ice	225.00	0.472	-0.0125	0.2284	0.2285
50 mph 60 deg with 0.75 in Radial Ice	235.00	0.512	-0.0103	0.2349	0.2350
50 mph 60 deg with 0.75 in Radial Ice	245.00	0.553	-0.0088	0.2392	0.2394
50 mph 60 deg with 0.75 in Radial Ice	250.00	0.574	-0.0087	0.2393	0.2394
50 mph 90 deg with 0.75 in Radial Ice	80.00	0.067	-0.0078	0.0905	0.0906

Site Number: 6260

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50 mph 90 deg with 0.75 in Radial Ice	100.00	0.102	-0.0096	0.1076	0.1077
50 mph 90 deg with 0.75 in Radial Ice	150.00	0.219	-0.0163	0.1580	0.1582
50 mph 90 deg with 0.75 in Radial Ice	160.00	0.246	-0.0167	0.1711	0.1713
50 mph 90 deg with 0.75 in Radial Ice	170.00	0.277	-0.0167	0.1793	0.1795
50 mph 90 deg with 0.75 in Radial Ice	193.33	0.354	-0.0168	0.2017	0.2019
50 mph 90 deg with 0.75 in Radial Ice	200.00	0.378	-0.0168	0.2073	0.2075
50 mph 90 deg with 0.75 in Radial Ice	206.67	0.402	-0.0166	0.2123	0.2124
50 mph 90 deg with 0.75 in Radial Ice	225.00	0.472	-0.0146	0.2281	0.2282
50 mph 90 deg with 0.75 in Radial Ice	235.00	0.512	-0.0121	0.2352	0.2352
50 mph 90 deg with 0.75 in Radial Ice	245.00	0.554	-0.0104	0.2399	0.2401
50 mph 90 deg with 0.75 in Radial Ice	250.00	0.574	-0.0102	0.2381	0.2381
50 mph 120 deg with 0.75 in Radial Ice	80.00	0.067	-0.0068	0.0903	0.0903
50 mph 120 deg with 0.75 in Radial Ice	100.00	0.102	-0.0085	0.1076	0.1076
50 mph 120 deg with 0.75 in Radial Ice	150.00	0.218	-0.0145	0.1590	0.1593
50 mph 120 deg with 0.75 in Radial Ice	160.00	0.247	-0.0148	0.1715	0.1717
50 mph 120 deg with 0.75 in Radial Ice	170.00	0.277	-0.0148	0.1793	0.1795
50 mph 120 deg with 0.75 in Radial Ice	193.33	0.355	-0.0149	0.2027	0.2028
50 mph 120 deg with 0.75 in Radial Ice	200.00	0.379	-0.0148	0.2073	0.2075
50 mph 120 deg with 0.75 in Radial Ice	206.67	0.403	-0.0147	0.2130	0.2131
50 mph 120 deg with 0.75 in Radial Ice	225.00	0.473	-0.0129	0.2279	0.2280
50 mph 120 deg with 0.75 in Radial Ice	235.00	0.514	-0.0107	0.2361	0.2362
50 mph 120 deg with 0.75 in Radial Ice	245.00	0.555	-0.0092	0.2399	0.2400
50 mph 120 deg with 0.75 in Radial Ice	250.00	0.576	-0.0090	0.2355	0.2357
50 mph 180 deg with 0.75 in Radial Ice	80.00	0.067	0.0017	0.0913	0.0913
50 mph 180 deg with 0.75 in Radial Ice	100.00	0.103	0.0013	0.1086	0.1086
50 mph 180 deg with 0.75 in Radial Ice	150.00	0.219	0.0003	0.1640	0.1640
50 mph 180 deg with 0.75 in Radial Ice	160.00	0.246	0.0001	0.1690	0.1690
50 mph 180 deg with 0.75 in Radial Ice	170.00	0.277	0.0007	0.1800	0.1800
50 mph 180 deg with 0.75 in Radial Ice	193.33	0.354	0.0020	0.2014	0.2014
50 mph 180 deg with 0.75 in Radial Ice	200.00	0.378	0.0022	0.2076	0.2076
50 mph 180 deg with 0.75 in Radial Ice	206.67	0.402	0.0026	0.2125	0.2125
50 mph 180 deg with 0.75 in Radial Ice	225.00	0.472	0.0028	0.2285	0.2285
50 mph 180 deg with 0.75 in Radial Ice	235.00	0.512	0.0023	0.2350	0.2350
50 mph 180 deg with 0.75 in Radial Ice	245.00	0.553	0.0021	0.2392	0.2392
50 mph 180 deg with 0.75 in Radial Ice	250.00	0.574	0.0022	0.2394	0.2394
50 mph 210 deg with 0.75 in Radial Ice	80.00	0.067	0.0040	0.0906	0.0906
50 mph 210 deg with 0.75 in Radial Ice	100.00	0.102	0.0050	0.1076	0.1077
50 mph 210 deg with 0.75 in Radial Ice	150.00	0.219	0.0085	0.1623	0.1625
50 mph 210 deg with 0.75 in Radial Ice	160.00	0.246	0.0087	0.1703	0.1703
50 mph 210 deg with 0.75 in Radial Ice	170.00	0.277	0.0087	0.1796	0.1798
50 mph 210 deg with 0.75 in Radial Ice	193.33	0.354	0.0087	0.2021	0.2021
50 mph 210 deg with 0.75 in Radial Ice	200.00	0.378	0.0087	0.2074	0.2076
50 mph 210 deg with 0.75 in Radial Ice	206.67	0.402	0.0086	0.2126	0.2126
50 mph 210 deg with 0.75 in Radial Ice	225.00	0.472	0.0075	0.2282	0.2283
50 mph 210 deg with 0.75 in Radial Ice	235.00	0.512	0.0062	0.2352	0.2353
50 mph 210 deg with 0.75 in Radial Ice	245.00	0.554	0.0054	0.2399	0.2399
50 mph 210 deg with 0.75 in Radial Ice	250.00	0.574	0.0053	0.2381	0.2381
50 mph 240 deg with 0.75 in Radial Ice	80.00	0.067	0.0068	0.0903	0.0903
50 mph 240 deg with 0.75 in Radial Ice	100.00	0.102	0.0085	0.1076	0.1076
50 mph 240 deg with 0.75 in Radial Ice	150.00	0.218	0.0145	0.1590	0.1593
50 mph 240 deg with 0.75 in Radial Ice	160.00	0.247	0.0148	0.1715	0.1717
50 mph 240 deg with 0.75 in Radial Ice	170.00	0.277	0.0148	0.1793	0.1795
50 mph 240 deg with 0.75 in Radial Ice	193.33	0.355	0.0149	0.2027	0.2028
50 mph 240 deg with 0.75 in Radial Ice	200.00	0.379	0.0148	0.2073	0.2075
50 mph 240 deg with 0.75 in Radial Ice	206.67	0.403	0.0147	0.2130	0.2131
50 mph 240 deg with 0.75 in Radial Ice	225.00	0.473	0.0129	0.2279	0.2280
50 mph 240 deg with 0.75 in Radial Ice	235.00	0.514	0.0107	0.2361	0.2362
50 mph 240 deg with 0.75 in Radial Ice	245.00	0.555	0.0092	0.2399	0.2400
50 mph 240 deg with 0.75 in Radial Ice	250.00	0.576	0.0090	0.2355	0.2357
50 mph 300 deg with 0.75 in Radial Ice	80.00	0.067	0.0066	0.0911	0.0913
50 mph 300 deg with 0.75 in Radial Ice	100.00	0.103	0.0081	0.1085	0.1086
50 mph 300 deg with 0.75 in Radial Ice	150.00	0.219	0.0138	0.1598	0.1600

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50 mph 300 deg with 0.75 in Radial Ice	160.00	0.246	0.0142	0.1699	0.1701
50 mph 300 deg with 0.75 in Radial Ice	170.00	0.277	0.0141	0.1796	0.1798
50 mph 300 deg with 0.75 in Radial Ice	193.33	0.354	0.0143	0.2010	0.2012
50 mph 300 deg with 0.75 in Radial Ice	200.00	0.378	0.0142	0.2076	0.2077
50 mph 300 deg with 0.75 in Radial Ice	206.67	0.402	0.0141	0.2122	0.2124
50 mph 300 deg with 0.75 in Radial Ice	225.00	0.472	0.0125	0.2284	0.2285
50 mph 300 deg with 0.75 in Radial Ice	235.00	0.512	0.0103	0.2349	0.2350
50 mph 300 deg with 0.75 in Radial Ice	245.00	0.553	0.0088	0.2392	0.2394
50 mph 300 deg with 0.75 in Radial Ice	250.00	0.574	0.0087	0.2393	0.2394
50 mph 330 deg with 0.75 in Radial Ice	80.00	0.067	0.0038	0.0905	0.0906
50 mph 330 deg with 0.75 in Radial Ice	100.00	0.102	0.0046	0.1078	0.1078
50 mph 330 deg with 0.75 in Radial Ice	150.00	0.219	0.0078	0.1627	0.1627
50 mph 330 deg with 0.75 in Radial Ice	160.00	0.246	0.0080	0.1699	0.1701
50 mph 330 deg with 0.75 in Radial Ice	170.00	0.277	0.0080	0.1800	0.1800
50 mph 330 deg with 0.75 in Radial Ice	193.33	0.354	0.0081	0.2018	0.2019
50 mph 330 deg with 0.75 in Radial Ice	200.00	0.378	0.0081	0.2077	0.2077
50 mph 330 deg with 0.75 in Radial Ice	206.67	0.402	0.0080	0.2124	0.2125
50 mph 330 deg with 0.75 in Radial Ice	225.00	0.472	0.0071	0.2284	0.2284
50 mph 330 deg with 0.75 in Radial Ice	235.00	0.512	0.0059	0.2354	0.2354
50 mph 330 deg with 0.75 in Radial Ice	245.00	0.554	0.0050	0.2399	0.2399
50 mph 330 deg with 0.75 in Radial Ice	250.00	0.574	0.0049	0.2381	0.2381
Seismic Normal M1	80.00	0.010	0.0007	0.0145	0.0145
Seismic Normal M1	100.00	0.016	0.0008	0.0187	0.0187
Seismic Normal M1	150.00	0.036	0.0013	0.0290	0.0290
Seismic Normal M1	160.00	0.041	0.0014	0.0311	0.0311
Seismic Normal M1	170.00	0.047	0.0015	0.0334	0.0334
Seismic Normal M1	193.33	0.061	0.0017	0.0386	0.0386
Seismic Normal M1	200.00	0.066	0.0018	0.0398	0.0399
Seismic Normal M1	206.67	0.070	0.0018	0.0417	0.0417
Seismic Normal M1	225.00	0.084	0.0019	0.0462	0.0463
Seismic Normal M1	235.00	0.093	0.0018	0.0486	0.0487
Seismic Normal M1	245.00	0.101	0.0017	0.0505	0.0505
Seismic Normal M1	250.00	0.106	0.0016	0.0503	0.0503
Seismic Normal M2	80.00	0.006	0.0004	0.0085	0.0085
Seismic Normal M2	100.00	0.010	0.0005	0.0114	0.0114
Seismic Normal M2	150.00	0.021	0.0008	0.0186	0.0186
Seismic Normal M2	160.00	0.025	0.0009	0.0203	0.0203
Seismic Normal M2	170.00	0.028	0.0010	0.0222	0.0222
Seismic Normal M2	193.33	0.038	0.0012	0.0272	0.0272
Seismic Normal M2	200.00	0.042	0.0012	0.0285	0.0285
Seismic Normal M2	206.67	0.045	0.0013	0.0304	0.0304
Seismic Normal M2	225.00	0.056	0.0013	0.0358	0.0358
Seismic Normal M2	235.00	0.062	0.0012	0.0387	0.0387
Seismic Normal M2	245.00	0.069	0.0011	0.0410	0.0410
Seismic Normal M2	250.00	0.072	0.0010	0.0406	0.0406
Seismic 60 deg M1	80.00	0.010	-0.0007	0.0145	0.0145
Seismic 60 deg M1	100.00	0.015	-0.0008	0.0178	0.0178
Seismic 60 deg M1	150.00	0.036	-0.0013	0.0289	0.0289
Seismic 60 deg M1	160.00	0.041	-0.0014	0.0307	0.0307
Seismic 60 deg M1	170.00	0.046	-0.0015	0.0334	0.0334
Seismic 60 deg M1	193.33	0.061	-0.0017	0.0385	0.0385
Seismic 60 deg M1	200.00	0.066	-0.0018	0.0400	0.0400
Seismic 60 deg M1	206.67	0.070	-0.0018	0.0415	0.0416
Seismic 60 deg M1	225.00	0.084	-0.0019	0.0464	0.0464
Seismic 60 deg M1	235.00	0.093	-0.0018	0.0488	0.0488
Seismic 60 deg M1	245.00	0.101	-0.0017	0.0501	0.0502
Seismic 60 deg M1	250.00	0.106	-0.0016	0.0512	0.0512
Seismic 60 deg M2	80.00	0.006	-0.0004	0.0087	0.0087
Seismic 60 deg M2	100.00	0.009	-0.0005	0.0107	0.0107
Seismic 60 deg M2	150.00	0.021	-0.0008	0.0186	0.0186
Seismic 60 deg M2	160.00	0.025	-0.0009	0.0200	0.0200
Seismic 60 deg M2	170.00	0.028	-0.0010	0.0223	0.0223

Site Number: 6260

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Seismic 60 deg M2	193.33	0.038	-0.0012	0.0271	0.0271
Seismic 60 deg M2	200.00	0.042	-0.0012	0.0286	0.0286
Seismic 60 deg M2	206.67	0.045	-0.0013	0.0303	0.0303
Seismic 60 deg M2	225.00	0.055	-0.0013	0.0359	0.0359
Seismic 60 deg M2	235.00	0.062	-0.0012	0.0388	0.0388
Seismic 60 deg M2	245.00	0.069	-0.0011	0.0407	0.0408
Seismic 60 deg M2	250.00	0.072	-0.0010	0.0417	0.0417
Seismic 90 deg M1	80.00	0.010	-0.0008	0.0145	0.0145
Seismic 90 deg M1	100.00	0.016	-0.0009	0.0184	0.0184
Seismic 90 deg M1	150.00	0.036	-0.0015	0.0290	0.0290
Seismic 90 deg M1	160.00	0.041	-0.0016	0.0310	0.0310
Seismic 90 deg M1	170.00	0.047	-0.0018	0.0334	0.0334
Seismic 90 deg M1	193.33	0.061	-0.0020	0.0386	0.0386
Seismic 90 deg M1	200.00	0.066	-0.0020	0.0399	0.0399
Seismic 90 deg M1	206.67	0.070	-0.0021	0.0416	0.0417
Seismic 90 deg M1	225.00	0.084	-0.0022	0.0464	0.0464
Seismic 90 deg M1	235.00	0.093	-0.0021	0.0488	0.0488
Seismic 90 deg M1	245.00	0.101	-0.0019	0.0504	0.0504
Seismic 90 deg M1	250.00	0.106	-0.0019	0.0510	0.0510
Seismic 90 deg M2	80.00	0.006	-0.0004	0.0087	0.0087
Seismic 90 deg M2	100.00	0.010	-0.0005	0.0112	0.0112
Seismic 90 deg M2	150.00	0.021	-0.0010	0.0186	0.0186
Seismic 90 deg M2	160.00	0.025	-0.0010	0.0202	0.0202
Seismic 90 deg M2	170.00	0.028	-0.0011	0.0223	0.0223
Seismic 90 deg M2	193.33	0.038	-0.0013	0.0272	0.0272
Seismic 90 deg M2	200.00	0.042	-0.0014	0.0286	0.0286
Seismic 90 deg M2	206.67	0.045	-0.0015	0.0304	0.0304
Seismic 90 deg M2	225.00	0.056	-0.0015	0.0359	0.0359
Seismic 90 deg M2	235.00	0.062	-0.0014	0.0388	0.0388
Seismic 90 deg M2	245.00	0.069	-0.0012	0.0409	0.0409
Seismic 90 deg M2	250.00	0.072	-0.0012	0.0414	0.0414
Seismic 120 deg M1	80.00	0.010	0.0007	0.0145	0.0145
Seismic 120 deg M1	100.00	0.016	0.0008	0.0187	0.0187
Seismic 120 deg M1	150.00	0.036	0.0013	0.0290	0.0290
Seismic 120 deg M1	160.00	0.041	0.0014	0.0311	0.0311
Seismic 120 deg M1	170.00	0.047	0.0015	0.0334	0.0334
Seismic 120 deg M1	193.33	0.061	0.0017	0.0386	0.0386
Seismic 120 deg M1	200.00	0.066	0.0018	0.0398	0.0399
Seismic 120 deg M1	206.67	0.070	0.0018	0.0417	0.0417
Seismic 120 deg M1	225.00	0.084	0.0019	0.0462	0.0463
Seismic 120 deg M1	235.00	0.093	0.0018	0.0486	0.0487
Seismic 120 deg M1	245.00	0.101	0.0017	0.0505	0.0505
Seismic 120 deg M1	250.00	0.106	0.0016	0.0503	0.0503
Seismic 120 deg M2	80.00	0.006	0.0004	0.0085	0.0085
Seismic 120 deg M2	100.00	0.010	0.0005	0.0114	0.0114
Seismic 120 deg M2	150.00	0.021	0.0008	0.0186	0.0186
Seismic 120 deg M2	160.00	0.025	0.0009	0.0203	0.0203
Seismic 120 deg M2	170.00	0.028	0.0010	0.0222	0.0222
Seismic 120 deg M2	193.33	0.038	0.0012	0.0272	0.0272
Seismic 120 deg M2	200.00	0.042	0.0012	0.0285	0.0285
Seismic 120 deg M2	206.67	0.045	0.0013	0.0304	0.0304
Seismic 120 deg M2	225.00	0.056	0.0013	0.0358	0.0358
Seismic 120 deg M2	235.00	0.062	0.0012	0.0387	0.0387
Seismic 120 deg M2	245.00	0.069	0.0011	0.0410	0.0410
Seismic 120 deg M2	250.00	0.072	0.0010	0.0406	0.0406
Seismic 180 deg M1	80.00	0.010	0.0007	0.0145	0.0145
Seismic 180 deg M1	100.00	0.015	0.0008	0.0178	0.0178
Seismic 180 deg M1	150.00	0.036	0.0013	0.0289	0.0289
Seismic 180 deg M1	160.00	0.041	0.0014	0.0307	0.0307
Seismic 180 deg M1	170.00	0.046	0.0015	0.0334	0.0334
Seismic 180 deg M1	193.33	0.061	0.0017	0.0385	0.0385
Seismic 180 deg M1	200.00	0.066	0.0018	0.0400	0.0400

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Seismic 180 deg M1	206.67	0.070	0.0018	0.0416	0.0416
Seismic 180 deg M1	225.00	0.084	0.0019	0.0464	0.0464
Seismic 180 deg M1	235.00	0.093	0.0018	0.0488	0.0488
Seismic 180 deg M1	245.00	0.101	0.0017	0.0501	0.0502
Seismic 180 deg M1	250.00	0.106	0.0016	0.0512	0.0512
Seismic 180 deg M2	80.00	0.006	0.0004	0.0087	0.0087
Seismic 180 deg M2	100.00	0.009	0.0005	0.0107	0.0107
Seismic 180 deg M2	150.00	0.021	0.0008	0.0186	0.0186
Seismic 180 deg M2	160.00	0.025	0.0009	0.0200	0.0200
Seismic 180 deg M2	170.00	0.028	0.0010	0.0223	0.0223
Seismic 180 deg M2	193.33	0.038	0.0012	0.0271	0.0271
Seismic 180 deg M2	200.00	0.042	0.0012	0.0286	0.0286
Seismic 180 deg M2	206.67	0.045	0.0013	0.0303	0.0303
Seismic 180 deg M2	225.00	0.055	0.0013	0.0359	0.0359
Seismic 180 deg M2	235.00	0.062	0.0012	0.0388	0.0388
Seismic 180 deg M2	245.00	0.069	0.0011	0.0407	0.0408
Seismic 180 deg M2	250.00	0.072	0.0011	0.0417	0.0417
Seismic 210 deg M1	80.00	0.010	0.0004	0.0145	0.0145
Seismic 210 deg M1	100.00	0.016	0.0005	0.0184	0.0184
Seismic 210 deg M1	150.00	0.036	0.0008	0.0290	0.0290
Seismic 210 deg M1	160.00	0.041	0.0008	0.0310	0.0310
Seismic 210 deg M1	170.00	0.047	0.0009	0.0334	0.0334
Seismic 210 deg M1	193.33	0.061	0.0010	0.0386	0.0386
Seismic 210 deg M1	200.00	0.066	0.0010	0.0399	0.0399
Seismic 210 deg M1	206.67	0.070	0.0011	0.0416	0.0417
Seismic 210 deg M1	225.00	0.084	0.0011	0.0464	0.0464
Seismic 210 deg M1	235.00	0.093	0.0010	0.0488	0.0488
Seismic 210 deg M1	245.00	0.101	0.0010	0.0504	0.0504
Seismic 210 deg M1	250.00	0.106	0.0009	0.0510	0.0510
Seismic 210 deg M2	80.00	0.006	0.0002	0.0087	0.0087
Seismic 210 deg M2	100.00	0.010	0.0003	0.0112	0.0112
Seismic 210 deg M2	150.00	0.021	0.0005	0.0186	0.0186
Seismic 210 deg M2	160.00	0.025	0.0005	0.0202	0.0202
Seismic 210 deg M2	170.00	0.028	0.0006	0.0223	0.0223
Seismic 210 deg M2	193.33	0.038	0.0007	0.0272	0.0272
Seismic 210 deg M2	200.00	0.042	0.0007	0.0286	0.0286
Seismic 210 deg M2	206.67	0.045	0.0007	0.0304	0.0304
Seismic 210 deg M2	225.00	0.056	0.0008	0.0359	0.0359
Seismic 210 deg M2	235.00	0.062	0.0007	0.0388	0.0388
Seismic 210 deg M2	245.00	0.069	0.0006	0.0409	0.0409
Seismic 210 deg M2	250.00	0.072	0.0006	0.0414	0.0414
Seismic 240 deg M1	80.00	0.010	0.0007	0.0145	0.0145
Seismic 240 deg M1	100.00	0.016	0.0008	0.0187	0.0187
Seismic 240 deg M1	150.00	0.036	0.0013	0.0290	0.0290
Seismic 240 deg M1	160.00	0.041	0.0014	0.0311	0.0311
Seismic 240 deg M1	170.00	0.047	0.0015	0.0334	0.0334
Seismic 240 deg M1	193.33	0.061	0.0017	0.0386	0.0386
Seismic 240 deg M1	200.00	0.066	0.0018	0.0398	0.0399
Seismic 240 deg M1	206.67	0.070	0.0018	0.0417	0.0417
Seismic 240 deg M1	225.00	0.084	0.0019	0.0462	0.0463
Seismic 240 deg M1	235.00	0.093	0.0018	0.0486	0.0487
Seismic 240 deg M1	245.00	0.101	0.0017	0.0505	0.0505
Seismic 240 deg M1	250.00	0.106	0.0016	0.0503	0.0503
Seismic 240 deg M2	80.00	0.006	0.0004	0.0085	0.0085
Seismic 240 deg M2	100.00	0.010	0.0005	0.0114	0.0114
Seismic 240 deg M2	150.00	0.021	0.0008	0.0186	0.0186
Seismic 240 deg M2	160.00	0.025	0.0009	0.0203	0.0203
Seismic 240 deg M2	170.00	0.028	0.0010	0.0222	0.0222
Seismic 240 deg M2	193.33	0.038	0.0012	0.0272	0.0272
Seismic 240 deg M2	200.00	0.042	0.0012	0.0285	0.0285
Seismic 240 deg M2	206.67	0.045	0.0013	0.0304	0.0304
Seismic 240 deg M2	225.00	0.056	0.0013	0.0358	0.0358

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Seismic 240 deg M2	235.00	0.062	0.0012	0.0387	0.0387
Seismic 240 deg M2	245.00	0.069	0.0011	0.0410	0.0410
Seismic 240 deg M2	250.00	0.072	0.0010	0.0406	0.0406
Seismic 300 deg M1	80.00	0.010	0.0007	0.0145	0.0145
Seismic 300 deg M1	100.00	0.015	0.0008	0.0178	0.0178
Seismic 300 deg M1	150.00	0.036	0.0013	0.0289	0.0289
Seismic 300 deg M1	160.00	0.041	0.0014	0.0307	0.0307
Seismic 300 deg M1	170.00	0.046	0.0015	0.0334	0.0334
Seismic 300 deg M1	193.33	0.061	0.0017	0.0385	0.0385
Seismic 300 deg M1	200.00	0.066	0.0018	0.0400	0.0400
Seismic 300 deg M1	206.67	0.070	0.0018	0.0415	0.0416
Seismic 300 deg M1	225.00	0.084	0.0019	0.0464	0.0464
Seismic 300 deg M1	235.00	0.093	0.0018	0.0488	0.0488
Seismic 300 deg M1	245.00	0.101	0.0017	0.0501	0.0502
Seismic 300 deg M1	250.00	0.106	0.0016	0.0512	0.0512
Seismic 300 deg M2	80.00	0.006	0.0004	0.0087	0.0087
Seismic 300 deg M2	100.00	0.009	0.0005	0.0107	0.0107
Seismic 300 deg M2	150.00	0.021	0.0008	0.0186	0.0186
Seismic 300 deg M2	160.00	0.025	0.0009	0.0200	0.0200
Seismic 300 deg M2	170.00	0.028	0.0010	0.0223	0.0223
Seismic 300 deg M2	193.33	0.038	0.0012	0.0271	0.0271
Seismic 300 deg M2	200.00	0.042	0.0012	0.0286	0.0286
Seismic 300 deg M2	206.67	0.045	0.0013	0.0303	0.0303
Seismic 300 deg M2	225.00	0.055	0.0013	0.0359	0.0359
Seismic 300 deg M2	235.00	0.062	0.0012	0.0388	0.0388
Seismic 300 deg M2	245.00	0.069	0.0011	0.0407	0.0408
Seismic 300 deg M2	250.00	0.072	0.0010	0.0417	0.0417
Seismic 330 deg M1	80.00	0.010	0.0004	0.0145	0.0145
Seismic 330 deg M1	100.00	0.016	0.0005	0.0184	0.0184
Seismic 330 deg M1	150.00	0.036	0.0008	0.0290	0.0290
Seismic 330 deg M1	160.00	0.041	0.0008	0.0310	0.0310
Seismic 330 deg M1	170.00	0.047	0.0009	0.0334	0.0334
Seismic 330 deg M1	193.33	0.061	0.0010	0.0386	0.0386
Seismic 330 deg M1	200.00	0.066	0.0010	0.0399	0.0399
Seismic 330 deg M1	206.67	0.070	0.0011	0.0416	0.0417
Seismic 330 deg M1	225.00	0.084	0.0011	0.0464	0.0464
Seismic 330 deg M1	235.00	0.093	0.0010	0.0488	0.0488
Seismic 330 deg M1	245.00	0.101	0.0010	0.0504	0.0504
Seismic 330 deg M1	250.00	0.106	0.0009	0.0510	0.0510
Seismic 330 deg M2	80.00	0.006	0.0002	0.0087	0.0087
Seismic 330 deg M2	100.00	0.010	0.0003	0.0112	0.0112
Seismic 330 deg M2	150.00	0.021	0.0005	0.0186	0.0186
Seismic 330 deg M2	160.00	0.025	0.0005	0.0202	0.0202
Seismic 330 deg M2	170.00	0.028	0.0006	0.0223	0.0223
Seismic 330 deg M2	193.33	0.038	0.0007	0.0272	0.0272
Seismic 330 deg M2	200.00	0.042	0.0007	0.0286	0.0286
Seismic 330 deg M2	206.67	0.045	0.0007	0.0304	0.0304
Seismic 330 deg M2	225.00	0.056	0.0008	0.0359	0.0359
Seismic 330 deg M2	235.00	0.062	0.0007	0.0388	0.0388
Seismic 330 deg M2	245.00	0.069	0.0006	0.0409	0.0409
Seismic 330 deg M2	250.00	0.072	0.0006	0.0414	0.0414
Seismic (Reduced DL) Normal M1	80.00	0.010	0.0007	0.0143	0.0143
Seismic (Reduced DL) Normal M1	100.00	0.016	0.0008	0.0184	0.0184
Seismic (Reduced DL) Normal M1	150.00	0.036	0.0013	0.0289	0.0289
Seismic (Reduced DL) Normal M1	160.00	0.041	0.0014	0.0310	0.0310
Seismic (Reduced DL) Normal M1	170.00	0.046	0.0015	0.0333	0.0333
Seismic (Reduced DL) Normal M1	193.33	0.061	0.0017	0.0385	0.0385
Seismic (Reduced DL) Normal M1	200.00	0.066	0.0018	0.0397	0.0398
Seismic (Reduced DL) Normal M1	206.67	0.070	0.0018	0.0416	0.0416
Seismic (Reduced DL) Normal M1	225.00	0.084	0.0019	0.0461	0.0461
Seismic (Reduced DL) Normal M1	235.00	0.092	0.0018	0.0485	0.0485
Seismic (Reduced DL) Normal M1	245.00	0.101	0.0017	0.0502	0.0502

Site Number: 6260

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Seismic (Reduced DL) Normal M1	250.00	0.105	0.0016	0.0499	0.0499
Seismic (Reduced DL) Normal M2	80.00	0.006	0.0004	0.0084	0.0084
Seismic (Reduced DL) Normal M2	100.00	0.010	0.0005	0.0111	0.0111
Seismic (Reduced DL) Normal M2	150.00	0.021	0.0008	0.0185	0.0185
Seismic (Reduced DL) Normal M2	160.00	0.025	0.0009	0.0202	0.0202
Seismic (Reduced DL) Normal M2	170.00	0.028	0.0010	0.0221	0.0222
Seismic (Reduced DL) Normal M2	193.33	0.038	0.0012	0.0271	0.0271
Seismic (Reduced DL) Normal M2	200.00	0.042	0.0012	0.0284	0.0285
Seismic (Reduced DL) Normal M2	206.67	0.045	0.0013	0.0303	0.0303
Seismic (Reduced DL) Normal M2	225.00	0.055	0.0013	0.0357	0.0357
Seismic (Reduced DL) Normal M2	235.00	0.062	0.0012	0.0386	0.0386
Seismic (Reduced DL) Normal M2	245.00	0.069	0.0011	0.0407	0.0407
Seismic (Reduced DL) Normal M2	250.00	0.072	0.0010	0.0402	0.0402
Seismic (Reduced DL) 60 deg M1	80.00	0.010	-0.0007	0.0143	0.0143
Seismic (Reduced DL) 60 deg M1	100.00	0.015	-0.0008	0.0176	0.0176
Seismic (Reduced DL) 60 deg M1	150.00	0.036	-0.0013	0.0287	0.0287
Seismic (Reduced DL) 60 deg M1	160.00	0.041	-0.0014	0.0307	0.0307
Seismic (Reduced DL) 60 deg M1	170.00	0.046	-0.0015	0.0332	0.0332
Seismic (Reduced DL) 60 deg M1	193.33	0.061	-0.0017	0.0384	0.0384
Seismic (Reduced DL) 60 deg M1	200.00	0.066	-0.0018	0.0398	0.0398
Seismic (Reduced DL) 60 deg M1	206.67	0.070	-0.0018	0.0414	0.0415
Seismic (Reduced DL) 60 deg M1	225.00	0.084	-0.0019	0.0462	0.0462
Seismic (Reduced DL) 60 deg M1	235.00	0.092	-0.0018	0.0486	0.0486
Seismic (Reduced DL) 60 deg M1	245.00	0.101	-0.0017	0.0499	0.0500
Seismic (Reduced DL) 60 deg M1	250.00	0.105	-0.0016	0.0506	0.0506
Seismic (Reduced DL) 60 deg M2	80.00	0.006	-0.0004	0.0085	0.0085
Seismic (Reduced DL) 60 deg M2	100.00	0.009	-0.0005	0.0105	0.0105
Seismic (Reduced DL) 60 deg M2	150.00	0.021	-0.0008	0.0184	0.0184
Seismic (Reduced DL) 60 deg M2	160.00	0.025	-0.0009	0.0199	0.0199
Seismic (Reduced DL) 60 deg M2	170.00	0.028	-0.0010	0.0222	0.0222
Seismic (Reduced DL) 60 deg M2	193.33	0.038	-0.0012	0.0271	0.0271
Seismic (Reduced DL) 60 deg M2	200.00	0.042	-0.0012	0.0285	0.0285
Seismic (Reduced DL) 60 deg M2	206.67	0.045	-0.0013	0.0302	0.0303
Seismic (Reduced DL) 60 deg M2	225.00	0.055	-0.0013	0.0357	0.0357
Seismic (Reduced DL) 60 deg M2	235.00	0.062	-0.0012	0.0387	0.0387
Seismic (Reduced DL) 60 deg M2	245.00	0.069	-0.0011	0.0406	0.0406
Seismic (Reduced DL) 60 deg M2	250.00	0.072	-0.0010	0.0411	0.0411
Seismic (Reduced DL) 90 deg M1	80.00	0.010	-0.0008	0.0143	0.0143
Seismic (Reduced DL) 90 deg M1	100.00	0.016	-0.0009	0.0182	0.0182
Seismic (Reduced DL) 90 deg M1	150.00	0.036	-0.0015	0.0288	0.0289
Seismic (Reduced DL) 90 deg M1	160.00	0.041	-0.0016	0.0308	0.0309
Seismic (Reduced DL) 90 deg M1	170.00	0.046	-0.0018	0.0333	0.0333
Seismic (Reduced DL) 90 deg M1	193.33	0.061	-0.0020	0.0385	0.0385
Seismic (Reduced DL) 90 deg M1	200.00	0.066	-0.0020	0.0398	0.0398
Seismic (Reduced DL) 90 deg M1	206.67	0.070	-0.0021	0.0415	0.0415
Seismic (Reduced DL) 90 deg M1	225.00	0.084	-0.0022	0.0462	0.0462
Seismic (Reduced DL) 90 deg M1	235.00	0.092	-0.0020	0.0486	0.0486
Seismic (Reduced DL) 90 deg M1	245.00	0.101	-0.0019	0.0501	0.0501
Seismic (Reduced DL) 90 deg M1	250.00	0.105	-0.0019	0.0504	0.0504
Seismic (Reduced DL) 90 deg M2	80.00	0.006	-0.0004	0.0085	0.0085
Seismic (Reduced DL) 90 deg M2	100.00	0.009	-0.0005	0.0110	0.0110
Seismic (Reduced DL) 90 deg M2	150.00	0.021	-0.0009	0.0184	0.0184
Seismic (Reduced DL) 90 deg M2	160.00	0.025	-0.0010	0.0201	0.0201
Seismic (Reduced DL) 90 deg M2	170.00	0.028	-0.0011	0.0222	0.0222
Seismic (Reduced DL) 90 deg M2	193.33	0.038	-0.0013	0.0271	0.0271
Seismic (Reduced DL) 90 deg M2	200.00	0.042	-0.0014	0.0285	0.0285
Seismic (Reduced DL) 90 deg M2	206.67	0.045	-0.0015	0.0303	0.0303
Seismic (Reduced DL) 90 deg M2	225.00	0.055	-0.0015	0.0357	0.0357
Seismic (Reduced DL) 90 deg M2	235.00	0.062	-0.0014	0.0387	0.0387
Seismic (Reduced DL) 90 deg M2	245.00	0.069	-0.0012	0.0406	0.0407
Seismic (Reduced DL) 90 deg M2	250.00	0.072	-0.0012	0.0408	0.0408
Seismic (Reduced DL) 120 deg M1	80.00	0.010	0.0007	0.0143	0.0143

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Seismic (Reduced DL) 120 deg M1	100.00	0.016	0.0008	0.0184	0.0184
Seismic (Reduced DL) 120 deg M1	150.00	0.036	0.0013	0.0289	0.0289
Seismic (Reduced DL) 120 deg M1	160.00	0.041	0.0014	0.0310	0.0310
Seismic (Reduced DL) 120 deg M1	170.00	0.046	0.0015	0.0333	0.0333
Seismic (Reduced DL) 120 deg M1	193.33	0.061	0.0017	0.0385	0.0385
Seismic (Reduced DL) 120 deg M1	200.00	0.066	0.0018	0.0397	0.0398
Seismic (Reduced DL) 120 deg M1	206.67	0.070	0.0018	0.0416	0.0416
Seismic (Reduced DL) 120 deg M1	225.00	0.084	0.0019	0.0461	0.0461
Seismic (Reduced DL) 120 deg M1	235.00	0.092	0.0018	0.0485	0.0485
Seismic (Reduced DL) 120 deg M1	245.00	0.101	0.0017	0.0502	0.0502
Seismic (Reduced DL) 120 deg M1	250.00	0.105	0.0016	0.0499	0.0499
Seismic (Reduced DL) 120 deg M2	80.00	0.006	0.0004	0.0084	0.0084
Seismic (Reduced DL) 120 deg M2	100.00	0.010	0.0005	0.0111	0.0111
Seismic (Reduced DL) 120 deg M2	150.00	0.021	0.0008	0.0185	0.0185
Seismic (Reduced DL) 120 deg M2	160.00	0.025	0.0009	0.0202	0.0202
Seismic (Reduced DL) 120 deg M2	170.00	0.028	0.0010	0.0221	0.0222
Seismic (Reduced DL) 120 deg M2	193.33	0.038	0.0012	0.0271	0.0271
Seismic (Reduced DL) 120 deg M2	200.00	0.042	0.0012	0.0284	0.0285
Seismic (Reduced DL) 120 deg M2	206.67	0.045	0.0013	0.0303	0.0303
Seismic (Reduced DL) 120 deg M2	225.00	0.055	0.0013	0.0357	0.0357
Seismic (Reduced DL) 120 deg M2	235.00	0.062	0.0012	0.0386	0.0386
Seismic (Reduced DL) 120 deg M2	245.00	0.069	0.0011	0.0407	0.0407
Seismic (Reduced DL) 120 deg M2	250.00	0.072	0.0010	0.0402	0.0402
Seismic (Reduced DL) 180 deg M1	80.00	0.010	0.0007	0.0143	0.0143
Seismic (Reduced DL) 180 deg M1	100.00	0.015	0.0008	0.0176	0.0176
Seismic (Reduced DL) 180 deg M1	150.00	0.036	0.0013	0.0287	0.0287
Seismic (Reduced DL) 180 deg M1	160.00	0.041	0.0014	0.0307	0.0307
Seismic (Reduced DL) 180 deg M1	170.00	0.046	0.0015	0.0332	0.0332
Seismic (Reduced DL) 180 deg M1	193.33	0.061	0.0017	0.0384	0.0384
Seismic (Reduced DL) 180 deg M1	200.00	0.066	0.0018	0.0398	0.0398
Seismic (Reduced DL) 180 deg M1	206.67	0.070	0.0018	0.0414	0.0415
Seismic (Reduced DL) 180 deg M1	225.00	0.084	0.0019	0.0462	0.0462
Seismic (Reduced DL) 180 deg M1	235.00	0.092	0.0018	0.0486	0.0486
Seismic (Reduced DL) 180 deg M1	245.00	0.101	0.0017	0.0499	0.0500
Seismic (Reduced DL) 180 deg M1	250.00	0.105	0.0016	0.0506	0.0506
Seismic (Reduced DL) 180 deg M2	80.00	0.006	0.0004	0.0085	0.0085
Seismic (Reduced DL) 180 deg M2	100.00	0.009	0.0005	0.0105	0.0105
Seismic (Reduced DL) 180 deg M2	150.00	0.021	0.0008	0.0184	0.0184
Seismic (Reduced DL) 180 deg M2	160.00	0.025	0.0009	0.0199	0.0199
Seismic (Reduced DL) 180 deg M2	170.00	0.028	0.0010	0.0222	0.0222
Seismic (Reduced DL) 180 deg M2	193.33	0.038	0.0012	0.0271	0.0271
Seismic (Reduced DL) 180 deg M2	200.00	0.042	0.0012	0.0285	0.0285
Seismic (Reduced DL) 180 deg M2	206.67	0.045	0.0013	0.0302	0.0303
Seismic (Reduced DL) 180 deg M2	225.00	0.055	0.0013	0.0357	0.0357
Seismic (Reduced DL) 180 deg M2	235.00	0.062	0.0012	0.0387	0.0387
Seismic (Reduced DL) 180 deg M2	245.00	0.069	0.0011	0.0406	0.0406
Seismic (Reduced DL) 180 deg M2	250.00	0.072	0.0010	0.0411	0.0411
Seismic (Reduced DL) 210 deg M1	80.00	0.010	0.0004	0.0143	0.0143
Seismic (Reduced DL) 210 deg M1	100.00	0.016	0.0005	0.0182	0.0182
Seismic (Reduced DL) 210 deg M1	150.00	0.036	0.0008	0.0288	0.0289
Seismic (Reduced DL) 210 deg M1	160.00	0.041	0.0008	0.0308	0.0309
Seismic (Reduced DL) 210 deg M1	170.00	0.046	0.0009	0.0333	0.0333
Seismic (Reduced DL) 210 deg M1	193.33	0.061	0.0010	0.0385	0.0385
Seismic (Reduced DL) 210 deg M1	200.00	0.066	0.0010	0.0398	0.0398
Seismic (Reduced DL) 210 deg M1	206.67	0.070	0.0011	0.0415	0.0415
Seismic (Reduced DL) 210 deg M1	225.00	0.084	0.0011	0.0462	0.0462
Seismic (Reduced DL) 210 deg M1	235.00	0.092	0.0010	0.0486	0.0486
Seismic (Reduced DL) 210 deg M1	245.00	0.101	0.0010	0.0501	0.0501
Seismic (Reduced DL) 210 deg M1	250.00	0.105	0.0009	0.0504	0.0504
Seismic (Reduced DL) 210 deg M2	80.00	0.006	0.0002	0.0085	0.0085
Seismic (Reduced DL) 210 deg M2	100.00	0.009	0.0003	0.0110	0.0110
Seismic (Reduced DL) 210 deg M2	150.00	0.021	0.0005	0.0184	0.0184

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Seismic (Reduced DL) 210 deg M2	160.00	0.025	0.0005	0.0201	0.0201
Seismic (Reduced DL) 210 deg M2	170.00	0.028	0.0006	0.0222	0.0222
Seismic (Reduced DL) 210 deg M2	193.33	0.038	0.0007	0.0271	0.0271
Seismic (Reduced DL) 210 deg M2	200.00	0.042	0.0007	0.0285	0.0285
Seismic (Reduced DL) 210 deg M2	206.67	0.045	0.0007	0.0303	0.0303
Seismic (Reduced DL) 210 deg M2	225.00	0.055	0.0008	0.0357	0.0357
Seismic (Reduced DL) 210 deg M2	235.00	0.062	0.0007	0.0387	0.0387
Seismic (Reduced DL) 210 deg M2	245.00	0.069	0.0006	0.0406	0.0406
Seismic (Reduced DL) 210 deg M2	250.00	0.072	0.0006	0.0408	0.0408
Seismic (Reduced DL) 240 deg M1	80.00	0.010	0.0007	0.0143	0.0143
Seismic (Reduced DL) 240 deg M1	100.00	0.016	0.0008	0.0184	0.0184
Seismic (Reduced DL) 240 deg M1	150.00	0.036	0.0013	0.0289	0.0289
Seismic (Reduced DL) 240 deg M1	160.00	0.041	0.0014	0.0310	0.0310
Seismic (Reduced DL) 240 deg M1	170.00	0.046	0.0015	0.0333	0.0333
Seismic (Reduced DL) 240 deg M1	193.33	0.061	0.0017	0.0385	0.0385
Seismic (Reduced DL) 240 deg M1	200.00	0.066	0.0018	0.0397	0.0398
Seismic (Reduced DL) 240 deg M1	206.67	0.070	0.0018	0.0416	0.0416
Seismic (Reduced DL) 240 deg M1	225.00	0.084	0.0019	0.0461	0.0461
Seismic (Reduced DL) 240 deg M1	235.00	0.092	0.0018	0.0485	0.0485
Seismic (Reduced DL) 240 deg M1	245.00	0.101	0.0017	0.0502	0.0502
Seismic (Reduced DL) 240 deg M1	250.00	0.105	0.0016	0.0499	0.0499
Seismic (Reduced DL) 240 deg M2	80.00	0.006	0.0004	0.0084	0.0084
Seismic (Reduced DL) 240 deg M2	100.00	0.010	0.0005	0.0111	0.0111
Seismic (Reduced DL) 240 deg M2	150.00	0.021	0.0008	0.0185	0.0185
Seismic (Reduced DL) 240 deg M2	160.00	0.025	0.0009	0.0202	0.0202
Seismic (Reduced DL) 240 deg M2	170.00	0.028	0.0010	0.0221	0.0222
Seismic (Reduced DL) 240 deg M2	193.33	0.038	0.0012	0.0271	0.0271
Seismic (Reduced DL) 240 deg M2	200.00	0.042	0.0012	0.0284	0.0285
Seismic (Reduced DL) 240 deg M2	206.67	0.045	0.0013	0.0303	0.0303
Seismic (Reduced DL) 240 deg M2	225.00	0.055	0.0013	0.0357	0.0357
Seismic (Reduced DL) 240 deg M2	235.00	0.062	0.0012	0.0386	0.0386
Seismic (Reduced DL) 240 deg M2	245.00	0.069	0.0011	0.0407	0.0407
Seismic (Reduced DL) 240 deg M2	250.00	0.072	0.0010	0.0402	0.0402
Seismic (Reduced DL) 300 deg M1	80.00	0.010	0.0007	0.0143	0.0143
Seismic (Reduced DL) 300 deg M1	100.00	0.015	0.0008	0.0176	0.0176
Seismic (Reduced DL) 300 deg M1	150.00	0.036	0.0013	0.0287	0.0287
Seismic (Reduced DL) 300 deg M1	160.00	0.041	0.0014	0.0307	0.0307
Seismic (Reduced DL) 300 deg M1	170.00	0.046	0.0015	0.0332	0.0332
Seismic (Reduced DL) 300 deg M1	193.33	0.061	0.0017	0.0384	0.0384
Seismic (Reduced DL) 300 deg M1	200.00	0.066	0.0018	0.0398	0.0398
Seismic (Reduced DL) 300 deg M1	206.67	0.070	0.0018	0.0414	0.0415
Seismic (Reduced DL) 300 deg M1	225.00	0.084	0.0019	0.0462	0.0462
Seismic (Reduced DL) 300 deg M1	235.00	0.092	0.0018	0.0486	0.0486
Seismic (Reduced DL) 300 deg M1	245.00	0.101	0.0017	0.0499	0.0500
Seismic (Reduced DL) 300 deg M1	250.00	0.105	0.0016	0.0506	0.0506
Seismic (Reduced DL) 300 deg M2	80.00	0.006	0.0004	0.0085	0.0085
Seismic (Reduced DL) 300 deg M2	100.00	0.009	0.0005	0.0105	0.0105
Seismic (Reduced DL) 300 deg M2	150.00	0.021	0.0008	0.0184	0.0184
Seismic (Reduced DL) 300 deg M2	160.00	0.025	0.0009	0.0199	0.0199
Seismic (Reduced DL) 300 deg M2	170.00	0.028	0.0010	0.0222	0.0222
Seismic (Reduced DL) 300 deg M2	193.33	0.038	0.0012	0.0271	0.0271
Seismic (Reduced DL) 300 deg M2	200.00	0.042	0.0012	0.0285	0.0285
Seismic (Reduced DL) 300 deg M2	206.67	0.045	0.0013	0.0302	0.0303
Seismic (Reduced DL) 300 deg M2	225.00	0.055	0.0013	0.0357	0.0357
Seismic (Reduced DL) 300 deg M2	235.00	0.062	0.0012	0.0387	0.0387
Seismic (Reduced DL) 300 deg M2	245.00	0.069	0.0011	0.0406	0.0406
Seismic (Reduced DL) 300 deg M2	250.00	0.072	0.0010	0.0411	0.0411
Seismic (Reduced DL) 330 deg M1	80.00	0.010	0.0004	0.0143	0.0143
Seismic (Reduced DL) 330 deg M1	100.00	0.016	0.0005	0.0182	0.0182
Seismic (Reduced DL) 330 deg M1	150.00	0.036	0.0008	0.0288	0.0289
Seismic (Reduced DL) 330 deg M1	160.00	0.041	0.0008	0.0308	0.0309
Seismic (Reduced DL) 330 deg M1	170.00	0.046	0.0009	0.0333	0.0333

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Seismic (Reduced DL) 330 deg M1	193.33	0.061	0.0010	0.0385	0.0385
Seismic (Reduced DL) 330 deg M1	200.00	0.066	0.0010	0.0398	0.0398
Seismic (Reduced DL) 330 deg M1	206.67	0.070	0.0011	0.0415	0.0415
Seismic (Reduced DL) 330 deg M1	225.00	0.084	0.0011	0.0462	0.0462
Seismic (Reduced DL) 330 deg M1	235.00	0.092	0.0010	0.0486	0.0486
Seismic (Reduced DL) 330 deg M1	245.00	0.101	0.0010	0.0501	0.0501
Seismic (Reduced DL) 330 deg M1	250.00	0.105	0.0009	0.0504	0.0504
Seismic (Reduced DL) 330 deg M2	80.00	0.006	0.0002	0.0085	0.0085
Seismic (Reduced DL) 330 deg M2	100.00	0.009	0.0003	0.0110	0.0110
Seismic (Reduced DL) 330 deg M2	150.00	0.021	0.0005	0.0184	0.0184
Seismic (Reduced DL) 330 deg M2	160.00	0.025	0.0005	0.0201	0.0201
Seismic (Reduced DL) 330 deg M2	170.00	0.028	0.0006	0.0222	0.0222
Seismic (Reduced DL) 330 deg M2	193.33	0.038	0.0007	0.0271	0.0271
Seismic (Reduced DL) 330 deg M2	200.00	0.042	0.0007	0.0285	0.0285
Seismic (Reduced DL) 330 deg M2	206.67	0.045	0.0007	0.0303	0.0303
Seismic (Reduced DL) 330 deg M2	225.00	0.055	0.0008	0.0357	0.0357
Seismic (Reduced DL) 330 deg M2	235.00	0.062	0.0007	0.0387	0.0387
Seismic (Reduced DL) 330 deg M2	245.00	0.069	0.0006	0.0406	0.0407
Seismic (Reduced DL) 330 deg M2	250.00	0.072	0.0006	0.0408	0.0408
Serviceability - 60 mph Wind Normal	80.00	0.041	0.0002	0.0553	0.0553
Serviceability - 60 mph Wind Normal	100.00	0.063	0.0004	0.0677	0.0677
Serviceability - 60 mph Wind Normal	150.00	0.135	0.0025	0.1043	0.1043
Serviceability - 60 mph Wind Normal	160.00	0.153	0.0022	0.1071	0.1071
Serviceability - 60 mph Wind Normal	170.00	0.173	0.0017	0.1150	0.1150
Serviceability - 60 mph Wind Normal	193.33	0.223	0.0008	0.1302	0.1302
Serviceability - 60 mph Wind Normal	200.00	0.238	0.0006	0.1339	0.1339
Serviceability - 60 mph Wind Normal	206.67	0.254	0.0004	0.1379	0.1379
Serviceability - 60 mph Wind Normal	225.00	0.299	0.0002	0.1479	0.1479
Serviceability - 60 mph Wind Normal	235.00	0.326	0.0006	0.1540	0.1540
Serviceability - 60 mph Wind Normal	245.00	0.353	0.0008	0.1571	0.1571
Serviceability - 60 mph Wind Normal	250.00	0.366	0.0006	0.1543	0.1543
Serviceability - 60 mph Wind 60 deg	80.00	0.039	-0.0046	0.0523	0.0524
Serviceability - 60 mph Wind 60 deg	100.00	0.059	-0.0058	0.0635	0.0636
Serviceability - 60 mph Wind 60 deg	150.00	0.129	-0.0104	0.0958	0.0960
Serviceability - 60 mph Wind 60 deg	160.00	0.147	-0.0106	0.1038	0.1040
Serviceability - 60 mph Wind 60 deg	170.00	0.165	-0.0104	0.1099	0.1101
Serviceability - 60 mph Wind 60 deg	193.33	0.214	-0.0102	0.1251	0.1253
Serviceability - 60 mph Wind 60 deg	200.00	0.228	-0.0101	0.1285	0.1286
Serviceability - 60 mph Wind 60 deg	206.67	0.244	-0.0099	0.1324	0.1325
Serviceability - 60 mph Wind 60 deg	225.00	0.287	-0.0082	0.1428	0.1428
Serviceability - 60 mph Wind 60 deg	235.00	0.313	-0.0061	0.1478	0.1478
Serviceability - 60 mph Wind 60 deg	245.00	0.339	-0.0048	0.1515	0.1516
Serviceability - 60 mph Wind 60 deg	250.00	0.352	-0.0046	0.1501	0.1502
Serviceability - 60 mph Wind 90 deg	80.00	0.039	-0.0054	0.0535	0.0537
Serviceability - 60 mph Wind 90 deg	100.00	0.060	-0.0068	0.0648	0.0649
Serviceability - 60 mph Wind 90 deg	150.00	0.131	-0.0123	0.0954	0.0959
Serviceability - 60 mph Wind 90 deg	160.00	0.148	-0.0125	0.1051	0.1054
Serviceability - 60 mph Wind 90 deg	170.00	0.167	-0.0123	0.1108	0.1110
Serviceability - 60 mph Wind 90 deg	193.33	0.216	-0.0120	0.1261	0.1262
Serviceability - 60 mph Wind 90 deg	200.00	0.231	-0.0119	0.1296	0.1298
Serviceability - 60 mph Wind 90 deg	206.67	0.246	-0.0116	0.1334	0.1338
Serviceability - 60 mph Wind 90 deg	225.00	0.290	-0.0097	0.1438	0.1438
Serviceability - 60 mph Wind 90 deg	235.00	0.316	-0.0072	0.1493	0.1494
Serviceability - 60 mph Wind 90 deg	245.00	0.342	-0.0057	0.1534	0.1535
Serviceability - 60 mph Wind 90 deg	250.00	0.355	-0.0055	0.1502	0.1502
Serviceability - 60 mph Wind 120 deg	80.00	0.041	-0.0048	0.0551	0.0552
Serviceability - 60 mph Wind 120 deg	100.00	0.063	-0.0061	0.0676	0.0677
Serviceability - 60 mph Wind 120 deg	150.00	0.135	-0.0110	0.0998	0.1000
Serviceability - 60 mph Wind 120 deg	160.00	0.153	-0.0111	0.1078	0.1080
Serviceability - 60 mph Wind 120 deg	170.00	0.172	-0.0110	0.1141	0.1143
Serviceability - 60 mph Wind 120 deg	193.33	0.222	-0.0107	0.1298	0.1299
Serviceability - 60 mph Wind 120 deg	200.00	0.238	-0.0106	0.1332	0.1334

Site Number: 6260

Code:

ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

7/18/2019 9:45:32 PM

Customer: T-MOBILE

Serviceability - 60 mph Wind 120 deg	206.67	0.253	-0.0104	0.1373	0.1374
Serviceability - 60 mph Wind 120 deg	225.00	0.299	-0.0087	0.1472	0.1473
Serviceability - 60 mph Wind 120 deg	235.00	0.325	-0.0065	0.1533	0.1534
Serviceability - 60 mph Wind 120 deg	245.00	0.352	-0.0052	0.1567	0.1567
Serviceability - 60 mph Wind 120 deg	250.00	0.365	-0.0050	0.1538	0.1538
Serviceability - 60 mph Wind 180 deg	80.00	0.039	0.0002	0.0524	0.0524
Serviceability - 60 mph Wind 180 deg	100.00	0.059	0.0004	0.0636	0.0636
Serviceability - 60 mph Wind 180 deg	150.00	0.129	0.0023	0.1000	0.1000
Serviceability - 60 mph Wind 180 deg	160.00	0.147	0.0020	0.1030	0.1030
Serviceability - 60 mph Wind 180 deg	170.00	0.166	0.0015	0.1104	0.1104
Serviceability - 60 mph Wind 180 deg	193.33	0.214	0.0005	0.1251	0.1251
Serviceability - 60 mph Wind 180 deg	200.00	0.228	0.0003	0.1286	0.1286
Serviceability - 60 mph Wind 180 deg	206.67	0.244	0.0000	0.1327	0.1327
Serviceability - 60 mph Wind 180 deg	225.00	0.287	0.0003	0.1428	0.1428
Serviceability - 60 mph Wind 180 deg	235.00	0.313	0.0001	0.1480	0.1480
Serviceability - 60 mph Wind 180 deg	245.00	0.339	0.0003	0.1515	0.1515
Serviceability - 60 mph Wind 180 deg	250.00	0.352	0.0001	0.1502	0.1502
Serviceability - 60 mph Wind 210 deg	80.00	0.039	0.0028	0.0537	0.0537
Serviceability - 60 mph Wind 210 deg	100.00	0.060	0.0035	0.0649	0.0650
Serviceability - 60 mph Wind 210 deg	150.00	0.131	0.0063	0.0998	0.0998
Serviceability - 60 mph Wind 210 deg	160.00	0.148	0.0064	0.1043	0.1044
Serviceability - 60 mph Wind 210 deg	170.00	0.167	0.0063	0.1113	0.1113
Serviceability - 60 mph Wind 210 deg	193.33	0.216	0.0062	0.1264	0.1264
Serviceability - 60 mph Wind 210 deg	200.00	0.231	0.0061	0.1298	0.1298
Serviceability - 60 mph Wind 210 deg	206.67	0.246	0.0060	0.1339	0.1339
Serviceability - 60 mph Wind 210 deg	225.00	0.290	0.0050	0.1438	0.1439
Serviceability - 60 mph Wind 210 deg	235.00	0.316	0.0037	0.1496	0.1496
Serviceability - 60 mph Wind 210 deg	245.00	0.342	0.0029	0.1534	0.1534
Serviceability - 60 mph Wind 210 deg	250.00	0.355	0.0028	0.1502	0.1503
Serviceability - 60 mph Wind 240 deg	80.00	0.041	0.0048	0.0551	0.0552
Serviceability - 60 mph Wind 240 deg	100.00	0.063	0.0061	0.0676	0.0677
Serviceability - 60 mph Wind 240 deg	150.00	0.135	0.0110	0.0998	0.1000
Serviceability - 60 mph Wind 240 deg	160.00	0.153	0.0111	0.1078	0.1080
Serviceability - 60 mph Wind 240 deg	170.00	0.172	0.0110	0.1141	0.1143
Serviceability - 60 mph Wind 240 deg	193.33	0.222	0.0107	0.1298	0.1299
Serviceability - 60 mph Wind 240 deg	200.00	0.238	0.0106	0.1332	0.1334
Serviceability - 60 mph Wind 240 deg	206.67	0.253	0.0104	0.1373	0.1374
Serviceability - 60 mph Wind 240 deg	225.00	0.299	0.0087	0.1472	0.1473
Serviceability - 60 mph Wind 240 deg	235.00	0.325	0.0065	0.1533	0.1534
Serviceability - 60 mph Wind 240 deg	245.00	0.352	0.0052	0.1567	0.1567
Serviceability - 60 mph Wind 240 deg	250.00	0.365	0.0050	0.1538	0.1538
Serviceability - 60 mph Wind 300 deg	80.00	0.039	0.0046	0.0523	0.0524
Serviceability - 60 mph Wind 300 deg	100.00	0.059	0.0058	0.0635	0.0636
Serviceability - 60 mph Wind 300 deg	150.00	0.129	0.0104	0.0958	0.0960
Serviceability - 60 mph Wind 300 deg	160.00	0.147	0.0106	0.1038	0.1040
Serviceability - 60 mph Wind 300 deg	170.00	0.165	0.0104	0.1099	0.1101
Serviceability - 60 mph Wind 300 deg	193.33	0.214	0.0102	0.1251	0.1253
Serviceability - 60 mph Wind 300 deg	200.00	0.228	0.0101	0.1285	0.1286
Serviceability - 60 mph Wind 300 deg	206.67	0.244	0.0099	0.1324	0.1325
Serviceability - 60 mph Wind 300 deg	225.00	0.287	0.0082	0.1428	0.1428
Serviceability - 60 mph Wind 300 deg	235.00	0.313	0.0061	0.1478	0.1478
Serviceability - 60 mph Wind 300 deg	245.00	0.339	0.0048	0.1515	0.1516
Serviceability - 60 mph Wind 300 deg	250.00	0.352	0.0046	0.1501	0.1502
Serviceability - 60 mph Wind 330 deg	80.00	0.039	0.0026	0.0537	0.0537
Serviceability - 60 mph Wind 330 deg	100.00	0.060	0.0033	0.0648	0.0649
Serviceability - 60 mph Wind 330 deg	150.00	0.131	0.0060	0.0998	0.0998
Serviceability - 60 mph Wind 330 deg	160.00	0.148	0.0061	0.1042	0.1043
Serviceability - 60 mph Wind 330 deg	170.00	0.167	0.0060	0.1114	0.1115
Serviceability - 60 mph Wind 330 deg	193.33	0.216	0.0059	0.1263	0.1264
Serviceability - 60 mph Wind 330 deg	200.00	0.231	0.0058	0.1299	0.1299
Serviceability - 60 mph Wind 330 deg	206.67	0.246	0.0057	0.1339	0.1339
Serviceability - 60 mph Wind 330 deg	225.00	0.290	0.0047	0.1440	0.1440

Site Number: 6260

Code:

ANSI/TIA-222-G

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Site Name: NORTH STONINGTON CT, CT

Engineering Number: 12927122_C3_03

7/18/2019 9:45:32 PM

Customer: T-MOBILE

Serviceability - 60 mph Wind 330 deg	235.00	0.316	0.0035	0.1496	0.1496
Serviceability - 60 mph Wind 330 deg	245.00	0.342	0.0028	0.1534	0.1534
Serviceability - 60 mph Wind 330 deg	250.00	0.355	0.0027	0.1503	0.1503

Maximum Reactions Summary

Anchor Group	Vertical (kip)				Horizontal (kip)		Moment (kip-ft)	
	DL+WL	DL+WL+IL	UpLift	Shear	DL+WL	DL+WL+IL	DL+WL	DL+WL+IL
Base	112.09	311.30	606.19	61.89	104.12	36.37	13793.36	4642.83



**Mount Analysis of Proposed Perfect Vision PV-SFA12-B Sector Frames for American Tower on behalf of T-Mobile
6260 - North Stonington CT
Project #: 12927122
T-Mobile Site ID: CT11266A
Program: L600**

CLS Engineering PLLC Project #41124-12927122-01-MR-R1
July 3, 2019

MOUNT DESCRIPTION	Proposed Perfect Vision PV-SFA12-B Sector Frames at 225 ft AGL
ANTENNA ELEVATION	Nominal Rad. Elevation of 225 ft AGL
SITE DESCRIPTION	250 ft Self-Supporting Tower
SITE ADDRESS	118C Wintechog Hill Rd., off of Rt. 2, North Stonington, CT 06359-1228, New London County
GPS COORDINATES	41.45983887, -71.9 2733765
ANALYSIS STANDARD	2015 IBC / 2018 Connecticut State Building Code / TIA-222-G
LOADING CRITERIA	135 mph, V_{ult} / 104.6 mph, V_{asd} (3-Second Gust) w/o ice & 50 mph (3-Second Gust) w/ 0.75"

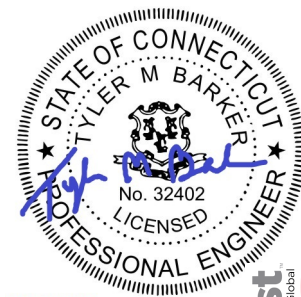
■ ANALYSIS RESULT: Pass (Replacement)

MEMBER USAGE	53%	Pass
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Existing mounts to be replaced; see conclusion for details.

Prepared by:
Jennifer Soza

Reviewed and Approved by:
Tyler M. Barker, P.E.



Tyler M. Barker
CLS Engineering, PLLC
Director of Engineering
PE # 32402 Exp. 1/31/2020
COA # PEC.001833 Exp. 8/14/2019

IdenTrust
part of HID Global
Digitally signed by Tyler Barker
DN: c=US, o=Telamon Corporation, ou=A01427E0000016A4525ADF800001D17, cn=Tyler Barker
Date: 2019.07.03 21:58:18 -0400'

■ INTRODUCTION

The proposed equipment is to be mounted to the proposed Perfect Vision PV-SFA12-B Sector Frames. This proposed mounting configuration was analyzed using RISA-3D, a commercially available finite element analysis software package. A selection of input and output from our analysis is attached to the end of this report.

■ STRUCTURAL DOCUMENTS PROVIDED

STRUCTURAL DATA	Site Photos, dated September 21, 2018 Perfect Vision SFA-ENG-01-R7 assembly Drawings Rev. 7, dated March 20, 2018
PREVIOUS ANALYSES	Structural Evaluation by American Tower Corporation Eng. Number: OAA712586_C3_06, dated July 13, 2018
LOADING DATA	American Tower Corporation Application Project #12927122, dated April 2, 2019

■ ANALYSIS CRITERIA

STANDARD	2015 IBC / 2018 Connecticut State Building Code / TIA-222-G
BASIC WIND SPEED	135 mph, V_{ult} / 104.6 mph, V_{asd} (3-Second Gust)
BASIC WIND SPEED W/ ICE	50 mph (3-Second Gust) w/ 0.75" Radial Ice (Escalating)
EXPOSURE CATEGORY	B
MAX. TOPOGRAPHIC FACTOR, K_{zt}	1.00
RISK CATEGORY	II
MAINTENANCE LIVE LOAD	L_M : 500 lb

■ FINAL EQUIPMENT

ELEVATION (ft)		ANTENNAS	
MOUNT	RAD.	#	NAME
225.0	225.0	6	Ericsson AIR 21 B2A/B4P
		3	Ericsson AIR 21 B4A/B2P
		3	Ericsson RADIO 4449 B12/B71
		3	RFS Celwave APXVAARR24_43-U-NA20

■ RESULTS SUMMARY

Existing Mount Usages:

COMPONENT	PEAK USAGE	RESULT
Face Horizontals	>200%	Fail
Plates	>200%	Fail
Bracing Members	87%	Pass
Stand-Off Horizontals	45%	Pass

Replacement Mount Usages:

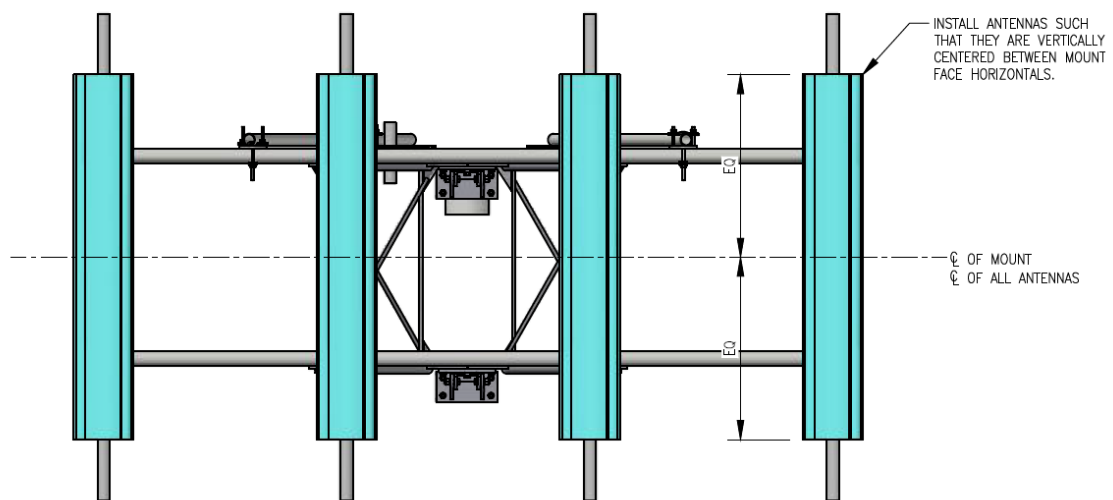
COMPONENT	PEAK USAGE	RESULT
Face Horizontals	53%	Pass
Stand-Off Horizontals	47%	Pass
Mount Pipes	43%	Pass
Bracing Members	31%	Pass
Stiff Arms	9%	Pass

■ CONCLUSION AND RECOMMENDATIONS

According to our structural analysis, the mounts have been found to PASS PENDING REPLACEMENT. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the following scope is executed:

- Replace existing Sector Frame mounts with (3) proposed Perfect Vision PV-SFA12-B Sector Frames.
- Install (4) 8'-0" long Pipe 2-1/2 STD, A53 Gr. B, mount pipes at each sector frame mount (12 total). Connect mount pipes to upper and lower face horizontal members using 1/2" U-Bolts such that the mount pipes are vertically centered on the mount.
- Install (2) stiff arms included in the sector frame kit at each sector frame mount (6 total). Connect to nearest adjacent tower leg with Perfect Vision PV-SAM-U or equal (6 total). Connect to upper face horizontal member as shown in the following sketch.
- Install existing and proposed antennas such that they are vertically centered on the mounts. Install existing and proposed RRUS and TMAs behind the antennas.

NOTE:
TOWER AND MOUNT SHOWN
ARE REPRESENTATIVE, ACTUAL
GEOMETRY MAY VARY.



See following sketches and Perfect Vision assembly drawings for additional details.

■ ASSUMPTIONS AND CONDITIONS

This analysis is inclusive of the antenna supporting frames/mounts and all recorded connections that will support the equipment listed in this report. It considers only the theoretical capacity of structural components and it is not a condition assessment. The validity of the analysis may be dependent on the accuracy of structural information supplied by others. The client is responsible for verifying this information. If any provided information is revised after completion of this analysis, CLS Engineering PLLC should be notified immediately to revise results.

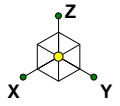
This analysis assumes the following:

1. The tower or other superstructure and mounts (if existing) were properly constructed as per the original design and have been properly maintained in accordance with applicable code standards.
2. Member sizes and strengths are accurate as supplied or are assumed as stated in the calculations.
3. In the absence of sufficient design information, all welds and connections are assumed to develop at least the capacity of the connected member, unless otherwise stated in this analysis.
4. All prior structural modifications, if any, are assumed to be correctly installed and fully effective.
5. The loading configuration is complete and accurate as supplied and/or as modeled in the previous analysis. All appurtenances are assumed to be properly installed and supported as per manufacturer requirements.
6. Some conservative assumptions may be used regarding appurtenances and their projected areas based on careful interpretation of data supplied, previous experience and standard industry practice.

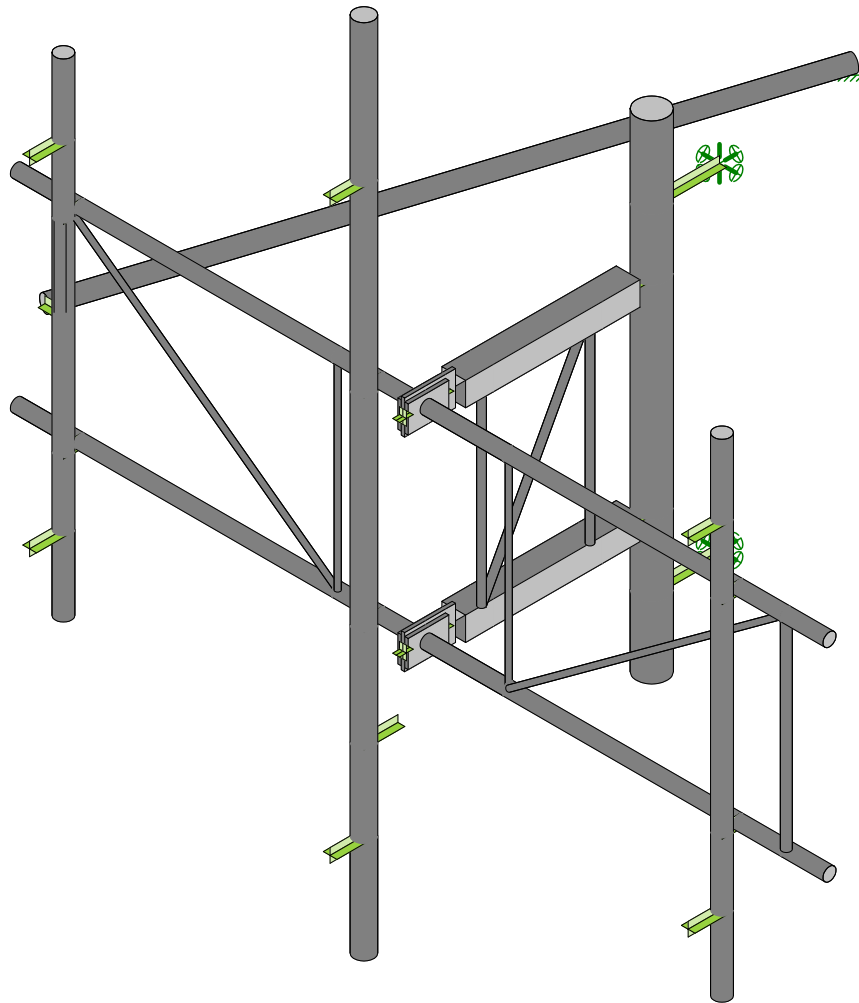
All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of the report. All opinions and conclusions contained herein are subject to revision based upon receipt of new or updated information. All services are provided exercising a level of care and diligence equivalent to the standard of our profession. No warranty or guarantee, either expressed or implied, is offered. All services are confidential in nature and this report will not be released to any other party without the client's consent. The use of this analysis is limited to the expressed purpose for which it was commissioned and it may not be reused, copied or disseminated for any other purpose without consent from CLS Engineering PLLC.

All services were performed, results obtained and recommendations made in accordance with generally accepted engineering principles and practices. CLS Engineering PLLC is not responsible for the conclusions, opinions or recommendations made by others based on the information supplied in this analysis.

It is not possible to have the fully detailed information necessary to perform a complete and thorough analysis of every structural sub-component of an existing structure. The structural analysis by CLS Engineering PLLC verifies the adequacy of the primary members of the structure. CLS Engineering PLLC provides a limited scope of service in that we cannot verify the adequacy of every weld, bolt, gusset, etc.



Existing Mount to be Replaced.

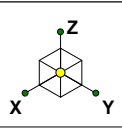


Envelope Only Solution

CLS
CWD
41124-12927122-01-MA

41124-12927122-North Stonington CT
Existing Mount to be Replaced - Rendered

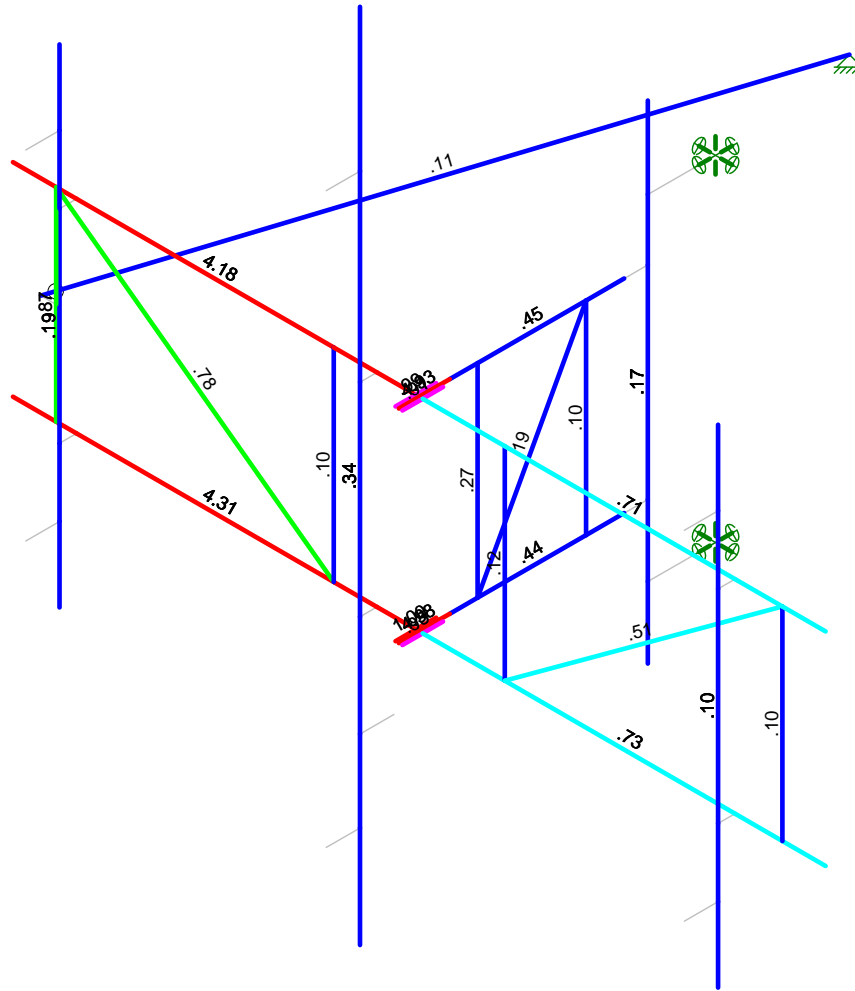
EX - 1
Apr 9, 2019 at 9:07 AM
41124-12927122-01-MA.r3d



Existing Mount to be Replaced.

Code Check
(Env)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0-.50

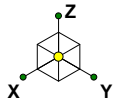


Member Code Checks Displayed (Enveloped)
Envelope Only Solution

CLS
CWD
41124-12927122-01-MA

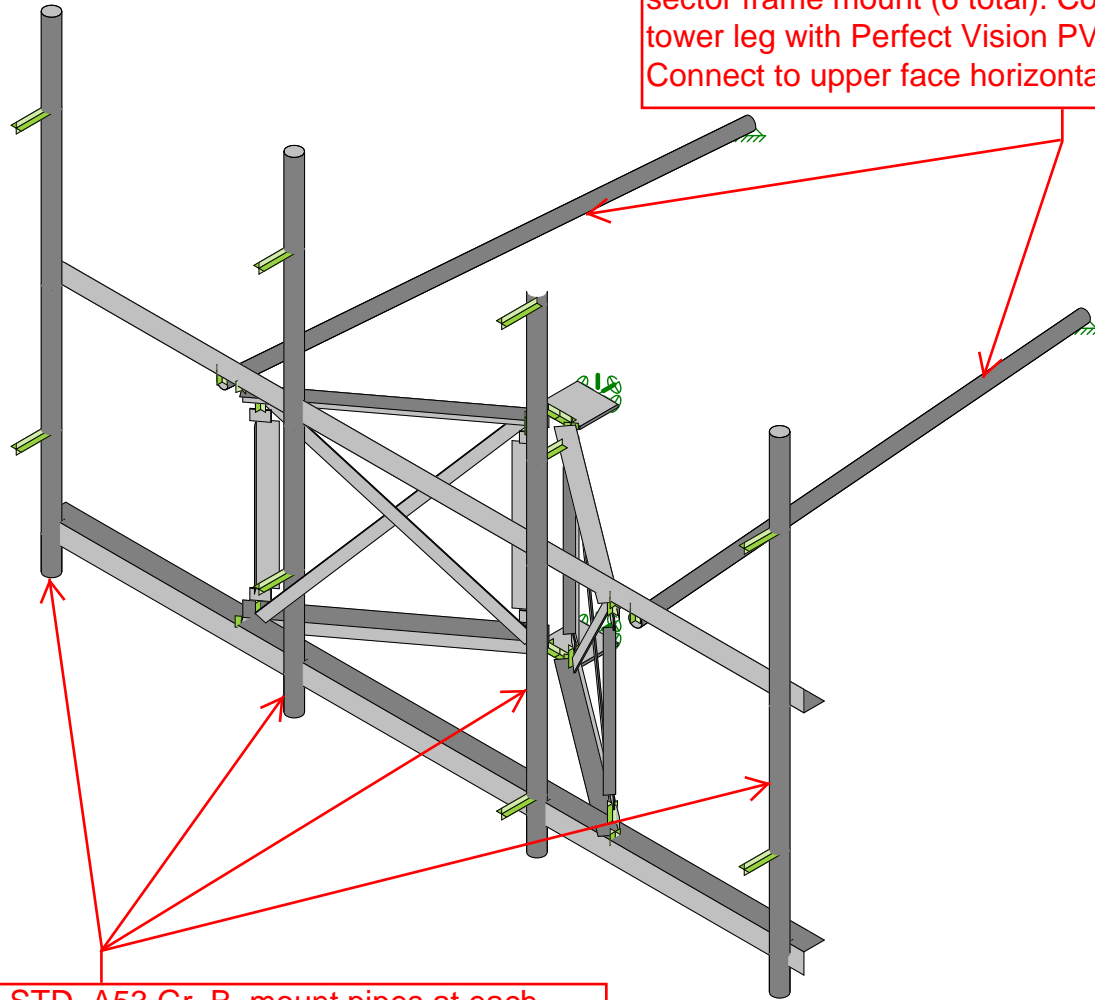
41124-12927122-North Stonington CT
Existing Mount to be Replaced - Unity Bending Check

EX - 2
Apr 9, 2019 at 9:08 AM
41124-12927122-01-MA.r3d



Replace existing Sector Frame mounts with (3) proposed Perfect Vision PV-SFA12-B Sector Frames.

Install (2) stiff arms included in the sector frame kit at each sector frame mount (6 total). Connect to nearest adjacent tower leg with Perfect Vision PV-SAM-U or equal (6 total). Connect to upper face horizontal member.



Install (4) 8'-0" long Pipe 2½ STD, A53 Gr. B, mount pipes at each sector frame mount (12 total). Connect mount pipes to upper and lower face horizontal members with ½"Ø U-bolts such that the mount pipes are vertically centered on the mount.

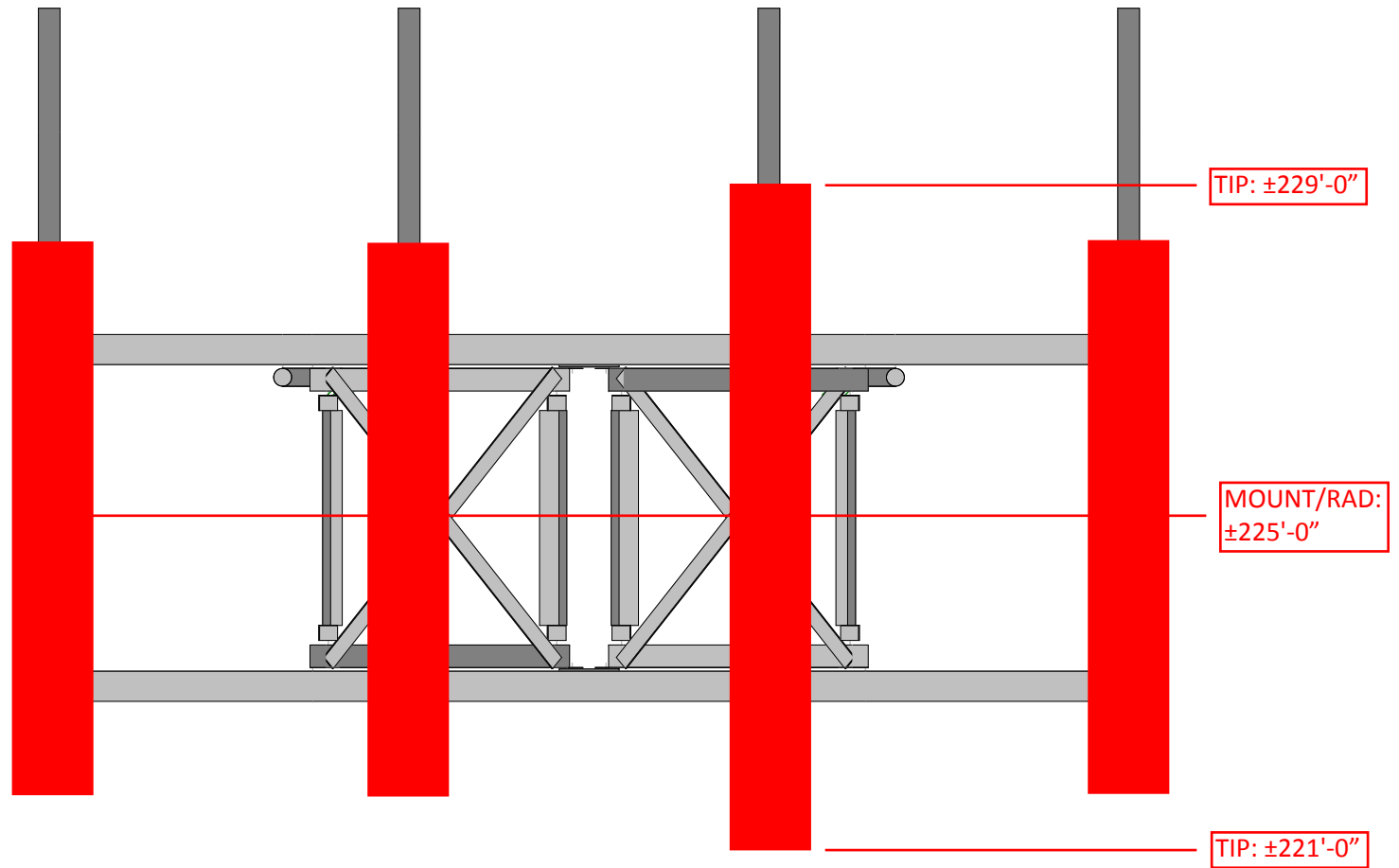
CLS
CWD
41124-12927122-01-MR

41124-12927122-North Stonington CT
Proposed Replacement Mount - Rendered

IN - 1
Apr 10, 2019 at 9:28 AM
41124-12927122-01-MR.r3d



Replace existing Sector Frame mounts with (3) proposed Perfect Vision PV-SFA12-B Sector Frames.



Envelope Only Solution

CLS
CWD
41124-12927122-01-MR

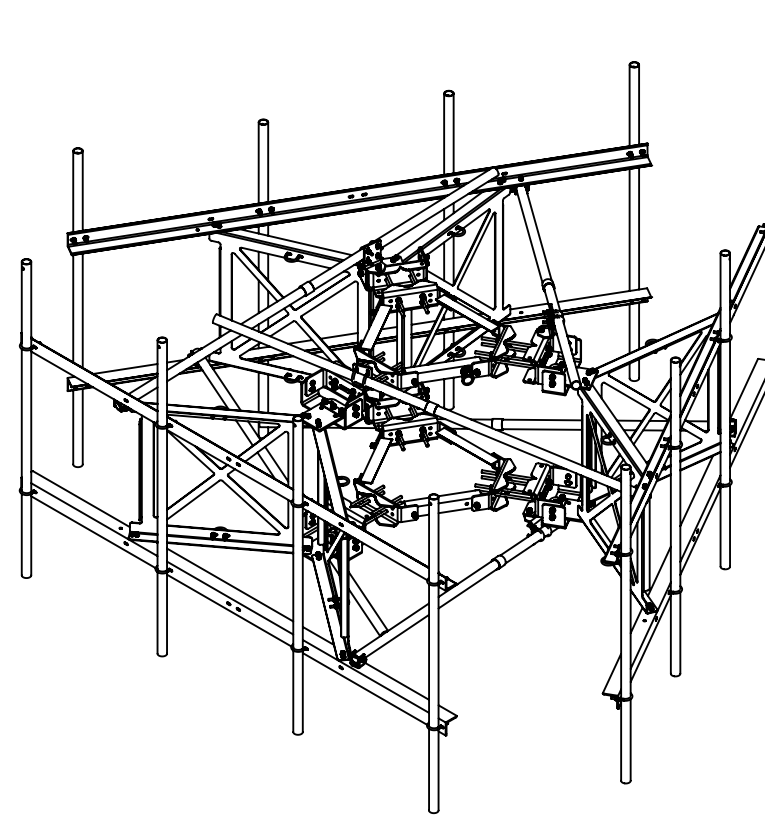
41124-12927122-North Stonington CT
Proposed Replacement Mount - Elevation View

IN - 2
Apr 10, 2019 at 9:31 AM
41124-12927122-01-MR.r3d

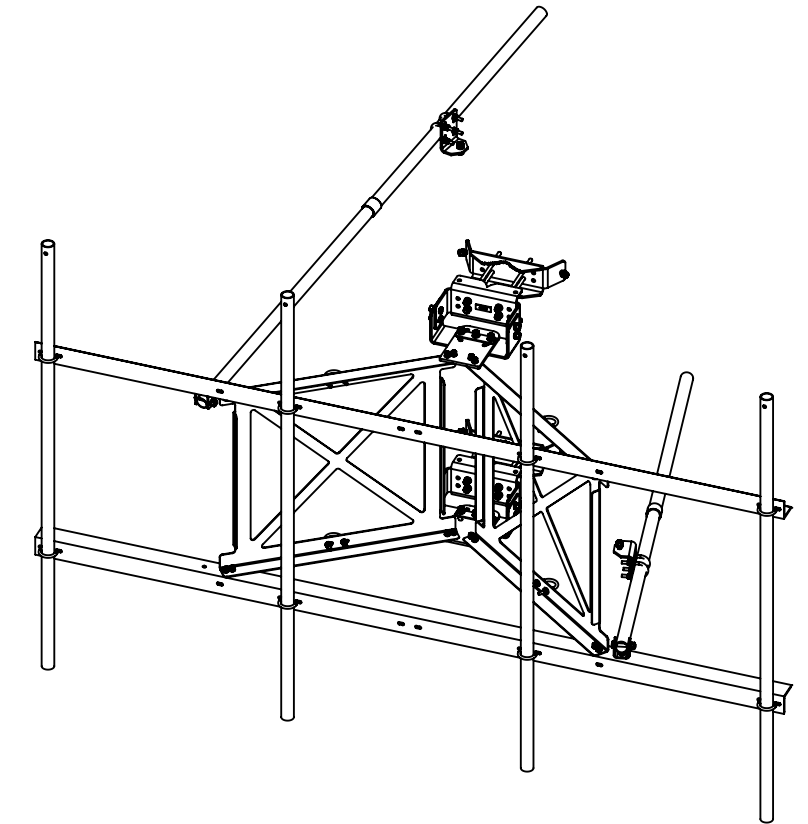
PV-SFA-B
L.I.F.E. MOUNT ASSEMBLED SECTOR FRAME

Table 1: PV-SFA Configurations

Part Number	Included Frame	Frame qty	Total Antenna Pipes	Pipe Length	HSK Included
PV-SFA7-3-96	PV-SFA7-B	1	3	96"	No
PV-SFA7-4-96	PV-SFA7-B	1	4	96"	No
PV-SFA7-3-126	PV-SFA7-B	1	3	126"	No
PV-SFA7-4-126	PV-SFA7-B	1	4	126"	No
PV-SFA10-3-96	PV-SFA10-B	1	3	96"	No
PV-SFA10-4-96	PV-SFA10-B	1	4	96"	No
PV-SFA10-3-126	PV-SFA10-B	1	3	126"	No
PV-SFA10-4-126	PV-SFA10-B	1	4	126"	No
PV-SFA12-3-96	PV-SFA12-B	1	3	96"	No
PV-SFA12-4-96	PV-SFA12-B	1	4	96"	No
PV-SFA12-3-126	PV-SFA12-B	1	3	126"	No
PV-SFA12-4-126	PV-SFA12-B	1	4	126"	No
PV-SFA14-4-96	PV-SFA14-B	1	4	96"	No
PV-SFA14-5-96	PV-SFA14-B	1	5	96"	No
PV-SFA14-4-126	PV-SFA14-B	1	4	126"	No
PV-SFA14-5-126	PV-SFA14-B	1	5	126"	No
PV-SFA7-3-9-96	PV-SFA7-B	3	9	96"	Yes
PV-SFA7-3-12-96	PV-SFA7-B	3	12	96"	Yes
PV-SFA7-3-9-126	PV-SFA7-B	3	9	126"	Yes
PV-SFA7-3-12-126	PV-SFA7-B	3	12	126"	Yes
PV-SFA10-3-9-96	PV-SFA10-B	3	9	96"	Yes
PV-SFA10-3-12-96	PV-SFA10-B	3	12	96"	Yes
PV-SFA10-3-9-126	PV-SFA10-B	3	9	126"	Yes
PV-SFA10-3-12-126	PV-SFA10-B	3	12	126"	Yes
PV-SFA12-3-9-96	PV-SFA12-B	3	9	96"	Yes
PV-SFA12-3-12-96	PV-SFA12-B	3	12	96"	Yes
PV-SFA12-3-9-126	PV-SFA12-B	3	9	126"	Yes
PV-SFA12-3-12-126	PV-SFA12-B	3	12	126"	Yes
PV-SFA14-3-12-96	PV-SFA14-B	3	12	96"	Yes
PV-SFA14-3-15-96	PV-SFA14-B	3	15	96"	Yes
PV-SFA14-3-12-126	PV-SFA14-B	3	12	126"	Yes
PV-SFA14-3-15-126	PV-SFA14-B	3	15	126"	Yes

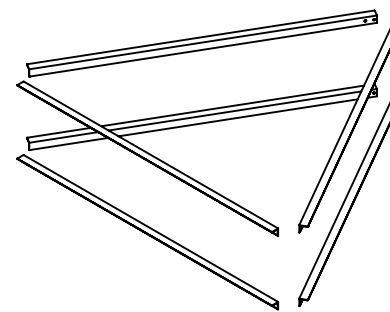


3 SECTOR WITH HSK AND PIPE

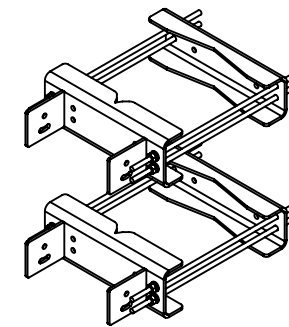


SINGLE SECTOR WITH PIPE

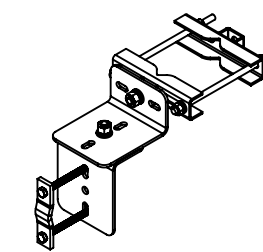
OPTIONAL ACCESSORIES



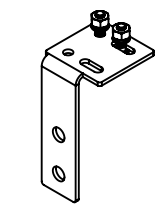
PV-HSK



PV-SFA-8016



PV-SAM-U



PV-SCRB-SFA

Table 2: PV-SFA-B Configurations

Part Number	Mount Width	Face Angle	Total Weight
PV-SFA7-B	7' 6"	PV-SFA-ANGLE7-HD	510 lbs
PV-SFA10-B	10' 6"	PV-SFA-ANGLE10-HD	560 lbs
PV-SFA12-B	12' 6"	PV-SFA-ANGLE12-HD	592 lbs
PV-SFA14-B	14' 6"	PV-SFA-ANGLE14-HD	624 lbs

Table 3: Optional Accessories

Part Number	Description	Sheet
PV-HSK	Horizontal Support Kit	5
PV-SFA-8016	Large Leg Adapter Kit	6
PV-SAM-U	Stiff Arm Leg Bracket	6
PV-SCRB-SFA	Safety Climb Cable Guide Attachment	4

SHEET 1 OF 8	THIRD ANGLE PROJECTION 	CATEGORY 01_Self Support	7	UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES	3/20/18
5/1/2018	SCALE NTS	SERIES 02_V-Frames - Assembled	6	UPDATED CLASSIFICATIONS / TEMPLATE	8/30/17
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4°, BEND ±2° ALL OTHERS: ±1/16"		TYPE PV-SFA	5	MOUNT CLASSIFICATIONS	1/19/17
		BY DJN	4	ADDED TIE BACK PIPE RANGE	6/9/16
		CHECKED SJS	3	L.I.F.E. MOUNT™ UPDATE	2/24/16
		STATUS APPROVED	REV	DESCRIPTION	DATE



L.I.F.E. MOUNT™ SECTOR FRAME	
DOCUMENT NUMBER	REV
SFA-ENG-01-R7	7

FRAME DETAILS:

Part Number	Front (ft ²) (EPA) _{MN}		Side (ft ²) (EPA) _{MT}	
	No Ice	0.5" Radial Ice	No Ice	0.5" Radial Ice
PV-SFA7-B	9.9	11.3	5.2	7.4
PV-SFA10-B	11.7	13.5	5.2	7.4
PV-SFA12-B	13.0	15.1	5.2	7.4
PV-SFA14-B	14.3	16.7	5.2	7.4

NOTE: FRAME EPA DOES NOT INCLUDE ANTENNA PIPES

Leg Type	Max Standard Bracket Size	Max Large Leg Bracket Size
Round	Ø8.625	Ø16
Angle 60°	6" x 6"	12" x 12"
Angle 90°	8" x 8"	16" x 16"

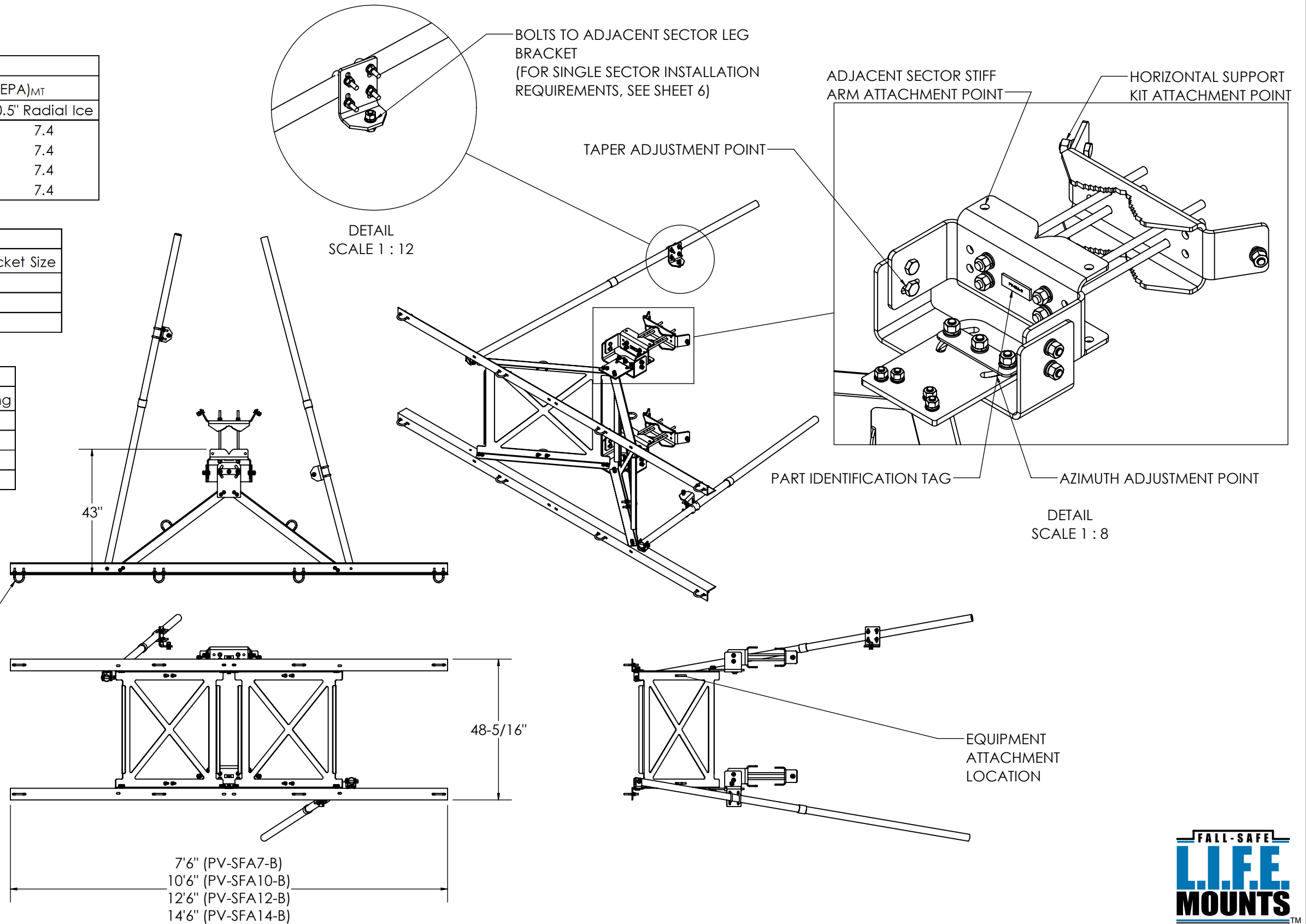
NOTE: SEE SHEET 6 FOR LARGE LEG BRACKET DETAILS

Part Number	3 Pipe Spacing	4 Pipe Spacing	5 Pipe Spacing
PV-SFA7-B	3'6"	2'4"	N/A
PV-SFA10-B	5'	3'4"	N/A
PV-SFA12-B	6'	4'	N/A
PV-SFA14-B	7'	4'8"	3'6"

COMPATIBLE ANTENNA PIPE:

- Ø2-3/8"
- Ø2-7/8"
- Ø3-1/2"

U-BOLTS SUPPLIED FOR Ø2-3/8"



SHEET	THIRD ANGLE PROJECTION	CATEGORY	7	UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES	3/20/18
2 OF 8		01_Self Support			
5/1/2018	SCALE 1:36	SERIES	6	UPDATED CLASSIFICATIONS / TEMPLATE	8/30/17
		02_V-Frames - Assembled			
		TYPE	5	MOUNT CLASSIFICATIONS	1/19/17
		PV-SFA			
		BY	4	ADDED TIE BACK PIPE RANGE	6/9/16
		DJN			
		CHECKED	3	L.I.F.E. MOUNT™ UPDATE	2/24/16
		SJS			
		STATUS	REV	DESCRIPTION	DATE
		APPROVED			



L.I.F.E. MOUNT™ SECTOR FRAME	
DOCUMENT NUMBER	REV
SFA-ENG-01-R7	7

MOUNT CLASSIFICATIONS:

REFERENCE STRUCTURAL LETTER (SFA-STL-01-R1) FOR ADDITIONAL LOADING REQUIREMENTS

MOUNT CLASSIFICATION INFORMATION

- MAX STRUCTURE HEIGHT: 400ft
- STRUCTURE CLASS: I OR II
- EXPOSURE CATEGORY: B OR C
- TOPOGRAPHIC CATEGORY: 1
- DESIGN WIND PRESSURE (NO ICE): 135psf
- DESIGN WIND PRESSURE (ICED): 15psf
- DESIGN ICE THICKNESS: 2.75in Radial

APPROVED MOUNT CLASSIFICATIONS*

- M700R-4[6]
- M800R-4[6]
- M900R-4[6]
- M950R-4[6]
- M1000R-4[6]
- M1400R-4[6]
- M1600R-4[6]
- HEAVY-5
- HEAVY-10
- HEAVY-WLL (PV-SFA14-B ONLY)

APPROVED MOUNT CLASSIFICATIONS (ICED)*

- M1000R(i)-4[6]
- M1150R(i)-4[6]
- HEAVY-5
- HEAVY-10
- HEAVY-WLL (PV-SFA14-B ONLY)

NOTES:

*UNLESS NOTES, APPLIES TO PV-SFA7-B, PV-SFA10-B, PV-SFA12-B, AND PV-SFA14-B MOUNTS

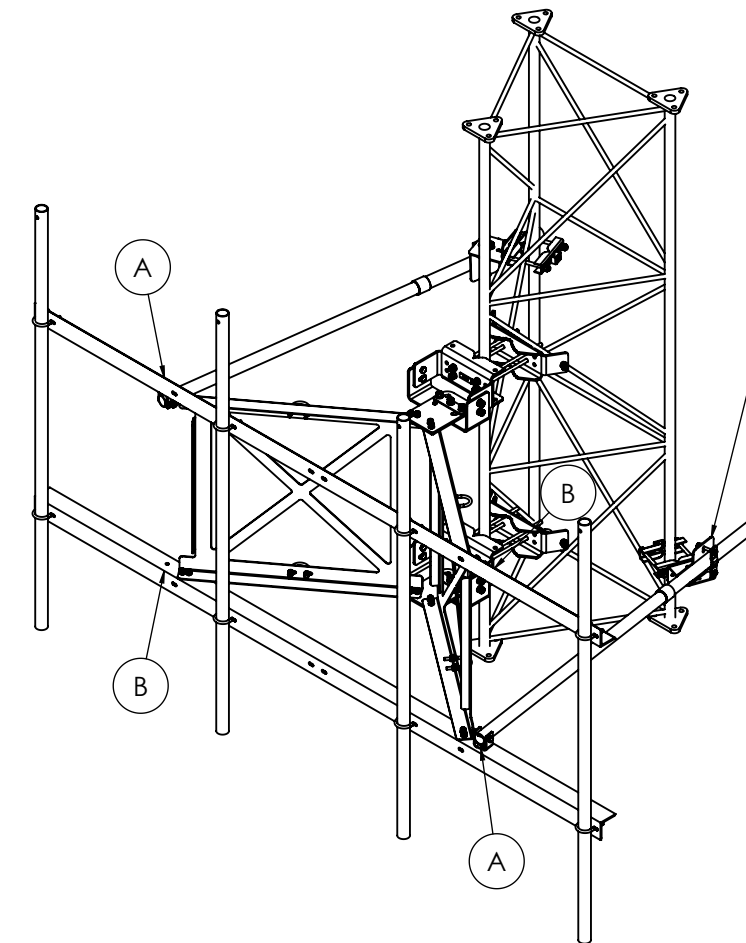
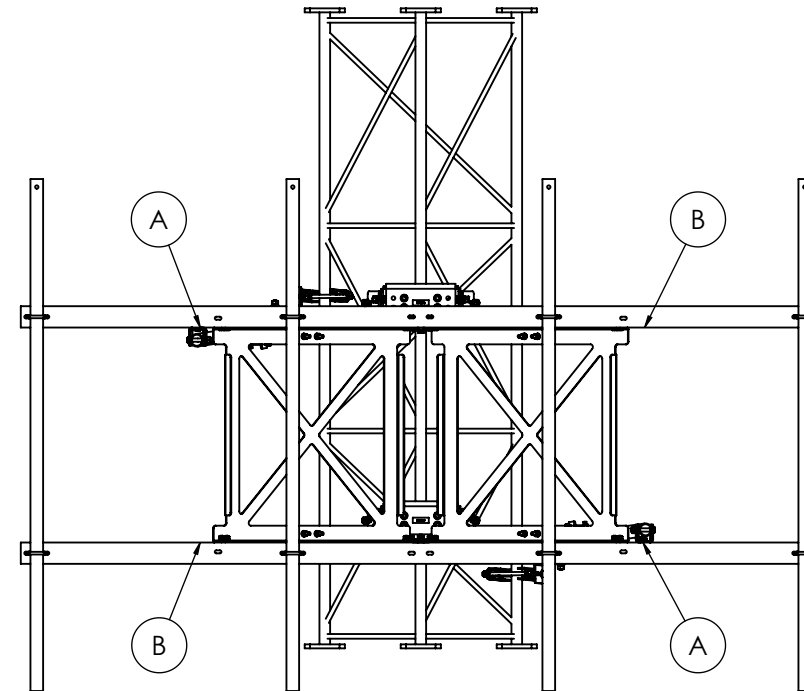
PERFECTVISION MANUFACTURING HIGHLY RECOMMENDS SPECIFYING THE PV-HSK (SEE SHEET 5) HORIZONTAL SUPPORT KIT TO INTERCONNECT SECTORS ON TOWERS WITH FACE WIDTHS LESS THAN 10FT AND LEG DIAMETERS LESS THAN 4IN OD.

STIFF ARM INSTALLATION:

- (2) STIFF ARMS ARE REQUIRED TO MEET APPROVED MOUNT CLASSIFICATIONS
- ~~STIFF ARMS MUST BE INSTALLED ON OPPOSITE CORNERS OF FRAME (LOCATIONS A-A OR B-B)~~
- ~~DO NOT INSTALL STIFF ARMS IN AN A-B CONFIGURATION~~

Install both stiff arms to upper face horizontal member

NOTE: SHOWN AS SINGLE SETUP WITH PV-SAM-U (SEE SHEET 6 FOR DETAILS)



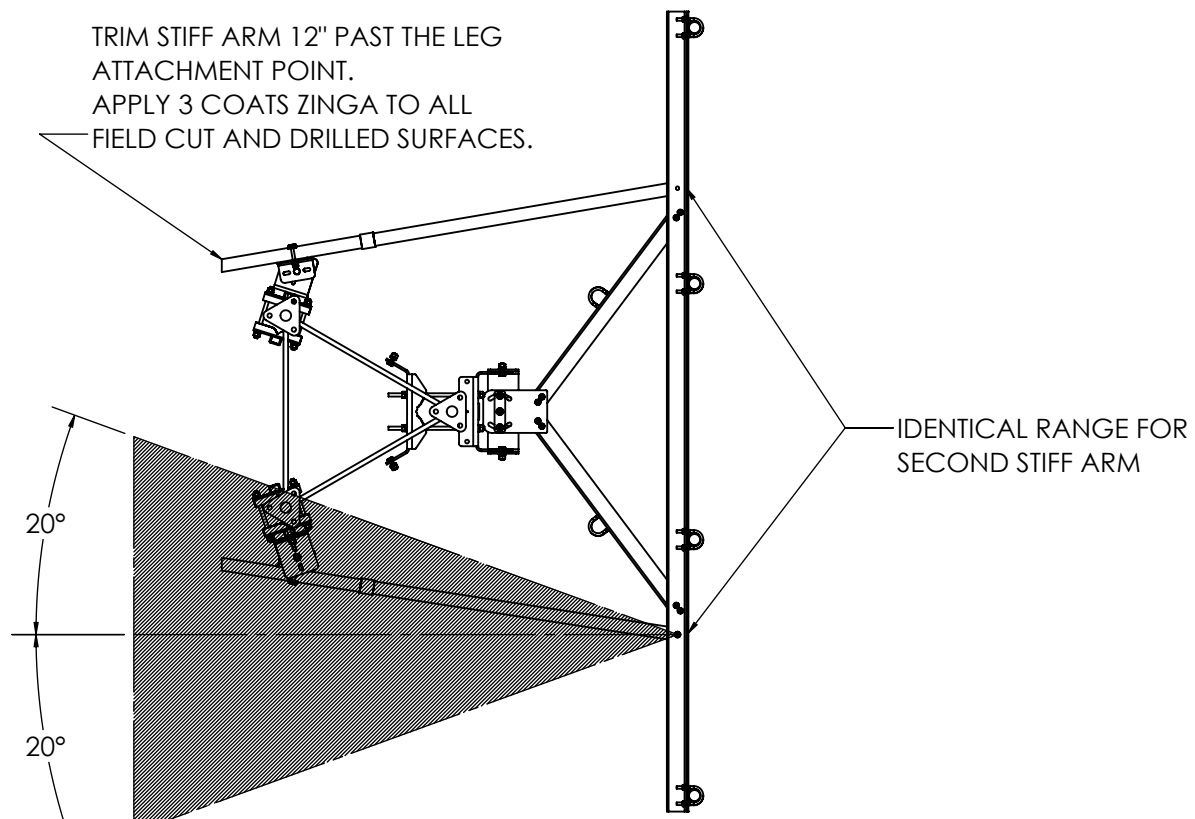
SHEET	THIRD ANGLE PROJECTION	CATEGORY	7	UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES	3/20/18
3 OF 8		01_Self Support	6	UPDATED CLASSIFICATIONS / TEMPLATE	8/30/17
5/1/2018	SCALE 1:36	SERIES 02_V-Frames - Assembled	5	MOUNT CLASSIFICATIONS	1/19/17
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4°, BEND ±2° ALL OTHERS: ±1/16"		TYPE PV-SFA	4	ADDED TIE BACK PIPE RANGE	6/9/16
		BY DJN	3	L.I.F.E. MOUNT™ UPDATE	2/24/16
		CHECKED SJS	REV	DESCRIPTION	DATE
		STATUS APPROVED			
					L.I.F.E. MOUNT™ SECTOR FRAME DOCUMENT NUMBER SFA-ENG-01-R7 REV 7



STIFF ARM INSTALLATION RANGE:

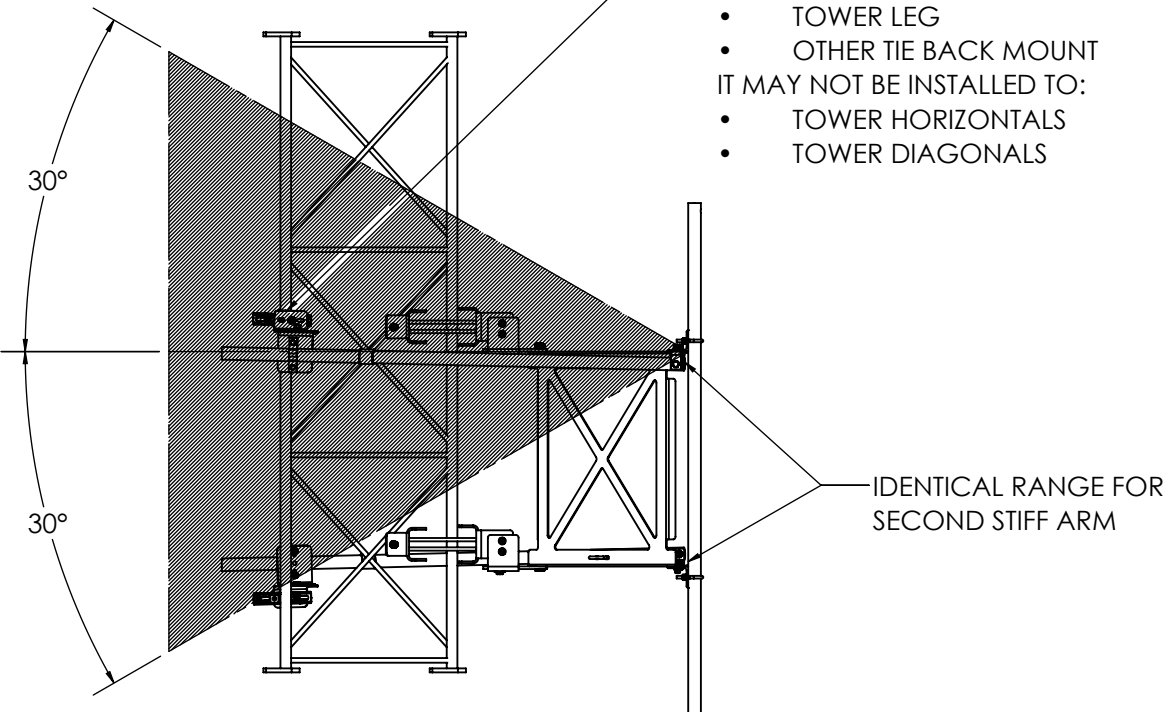
(SHOWN AS SINGLE SECTOR WITH PV-SAM-U)

TRIM STIFF ARM 12" PAST THE LEG ATTACHMENT POINT.
APPLY 3 COATS ZINGA TO ALL FIELD CUT AND DRILLED SURFACES.



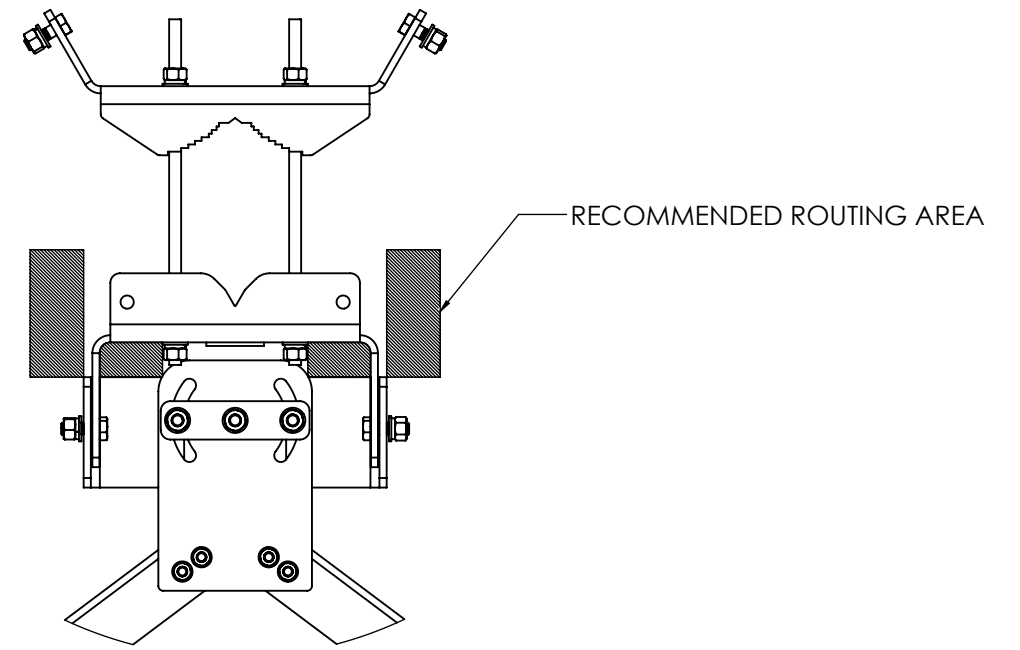
INSTALL PIPE $\pm 20^\circ$ FROM FACE NORMAL

- NOTE: STIFF ARM MUST BE ATTACHED TO:
- ADJACENT SECTOR LEG BRACKET
 - TOWER LEG
 - OTHER TIE BACK MOUNT
- IT MAY NOT BE INSTALLED TO:
- TOWER HORIZONTALS
 - TOWER DIAGONALS

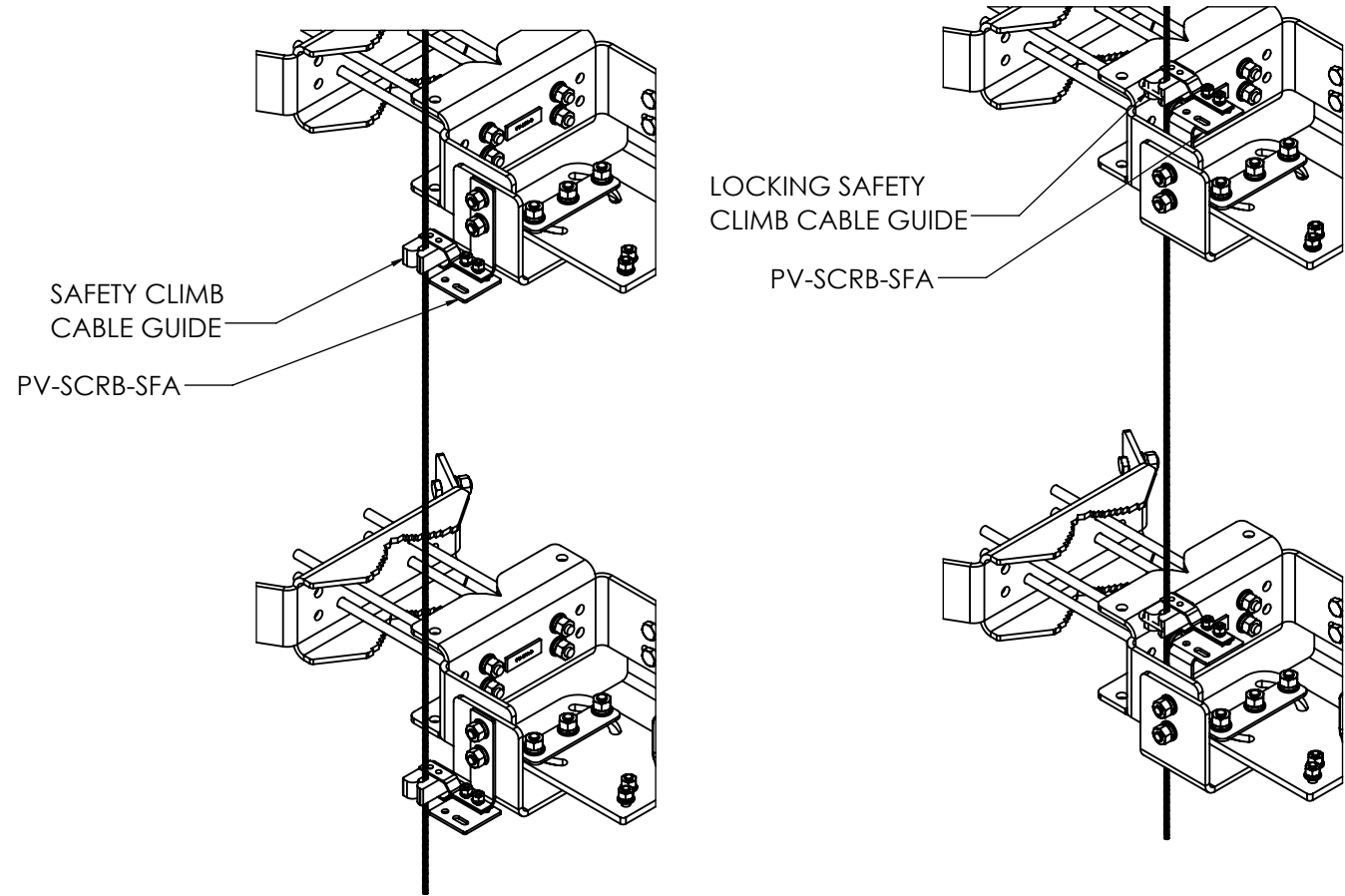


INSTALL PIPE $\pm 30^\circ$ FROM HORIZONTAL

SAFETY CLIMB ROUTING:



SAFETY CLIMB CABLE RECOMMENDED ROUTING



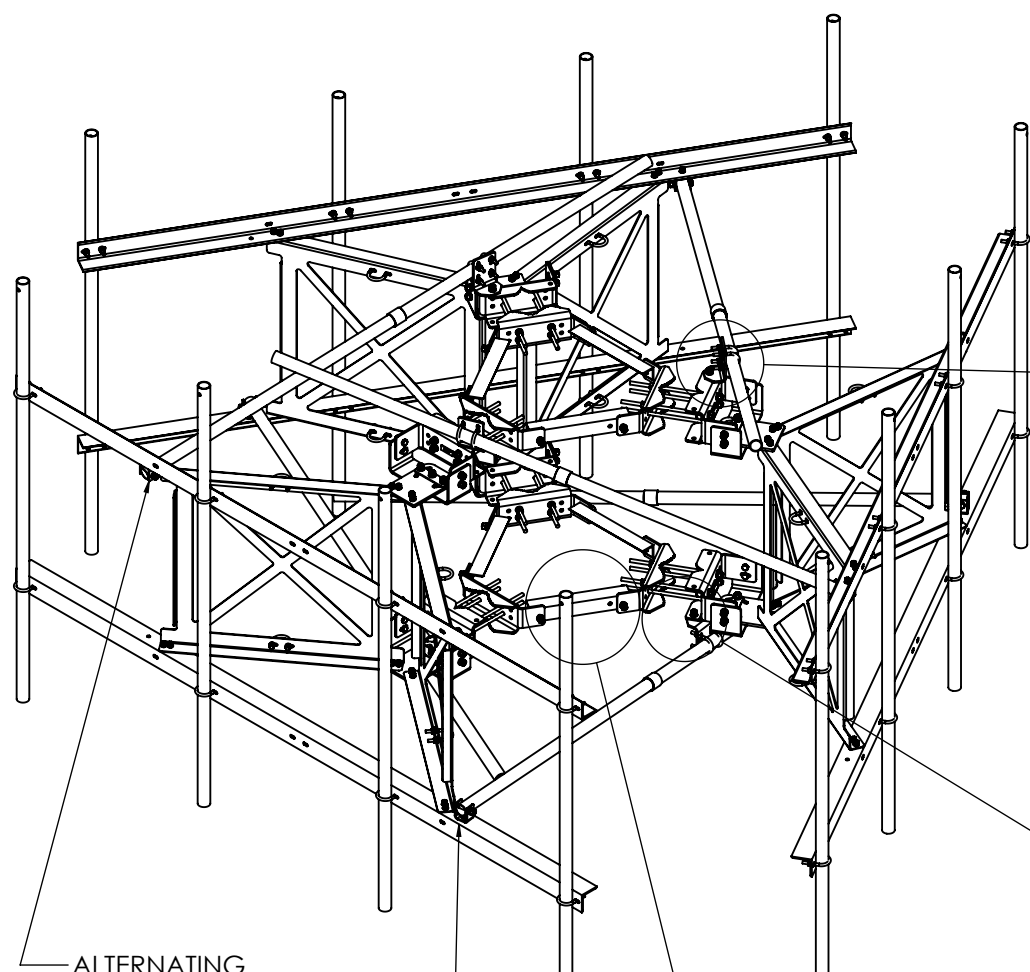
SAFETY CLIMB EXTERIOR ROUTING

SAFETY CLIMB INTERIOR ROUTING

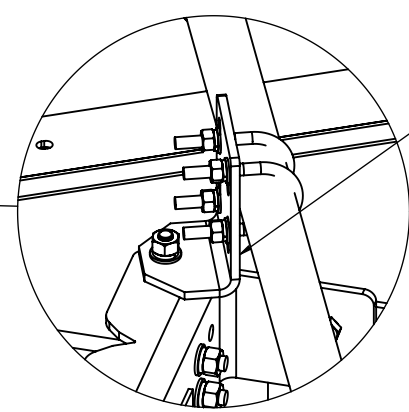


SHEET 4 OF 8	THIRD ANGLE PROJECTION 	CATEGORY 01_Self Support	7	UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES	3/20/18
5/1/2018	SCALE NTS	SERIES 02_V-Frames - Assembled	6	UPDATED CLASSIFICATIONS / TEMPLATE	8/30/17
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE $\pm 1/4^\circ$, BEND $\pm 2^\circ$ ALL OTHERS: $\pm 1/16"$		TYPE PV-SFA	5	MOUNT CLASSIFICATIONS	1/19/17
		BY DJN	4	ADDED TIE BACK PIPE RANGE	6/9/16
		CHECKED SJS	3	L.I.F.E. MOUNT™ UPDATE	2/24/16
		STATUS APPROVED	REV	DESCRIPTION	DATE
<p>PERFECT VISION MANUFACTURING</p> <p>L.I.F.E. MOUNT™ SECTOR FRAME</p> <p>DOCUMENT NUMBER SFA-ENG-01-R7</p>					<p>REV 7</p>

3 SECTOR CONNECTION DETAILS:

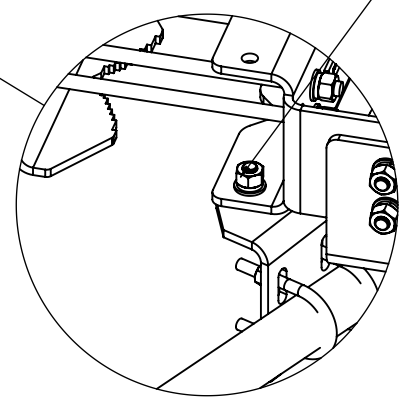


ALTERNATING ATTACHMENT LOCATIONS ENSURES STIFF ARM PIPES WON'T COLLIDE



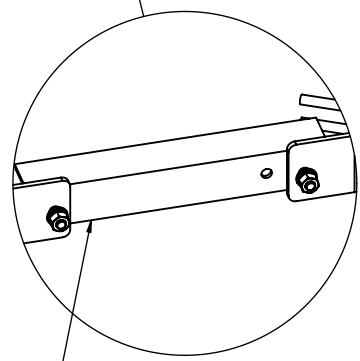
ADJACENT STIFF ARM TO TOP LEG BRACKET

DETAIL SCALE 1 : 8



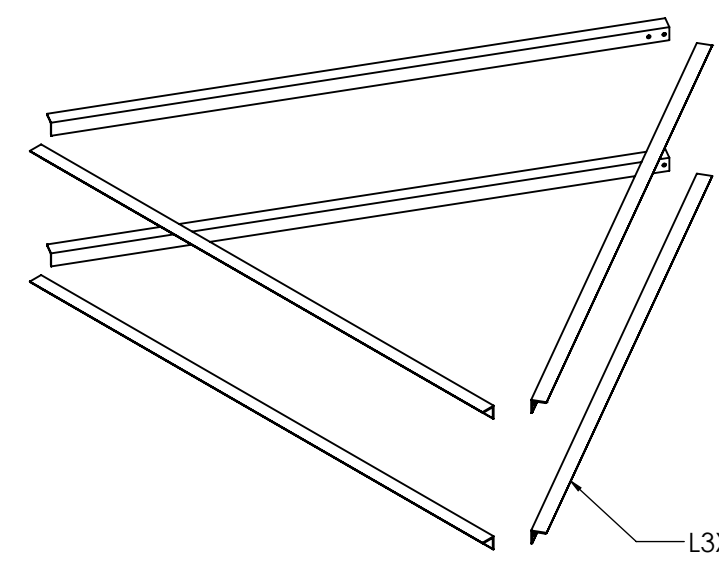
ADJACENT STIFF ARM TO BOTTOM LEG BRACKET

DETAIL SCALE 1 : 8

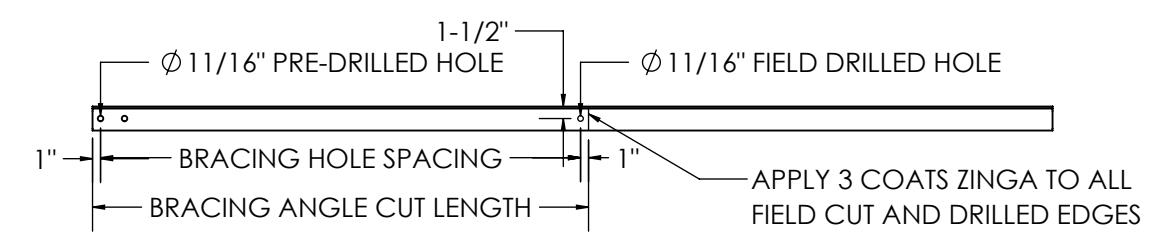


HORIZONTAL SUPPORT ANGLE

DETAIL SCALE 1 : 12



PV-HSK HORIZONTAL SUPPORT KIT
WEIGHT: 300LBS



BRACE ANGLE FIELD CUT DETAIL
SCALE 1:24



SHEET	THIRD ANGLE PROJECTION	CATEGORY	7	UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES	3/20/18
5 OF 8		01_Self Support			
5/1/2018	SCALE 1:36	SERIES	6	UPDATED CLASSIFICATIONS / TEMPLATE	8/30/17
		02_V-Frames - Assembled			
		TYPE	5	MOUNT CLASSIFICATIONS	1/19/17
		PV-SFA			
		BY	4	ADDED TIE BACK PIPE RANGE	6/9/16
		DJN			
		CHECKED	3	L.I.F.E. MOUNT™ UPDATE	2/24/16
		SJS			
		STATUS	REV	DESCRIPTION	DATE
		APPROVED			



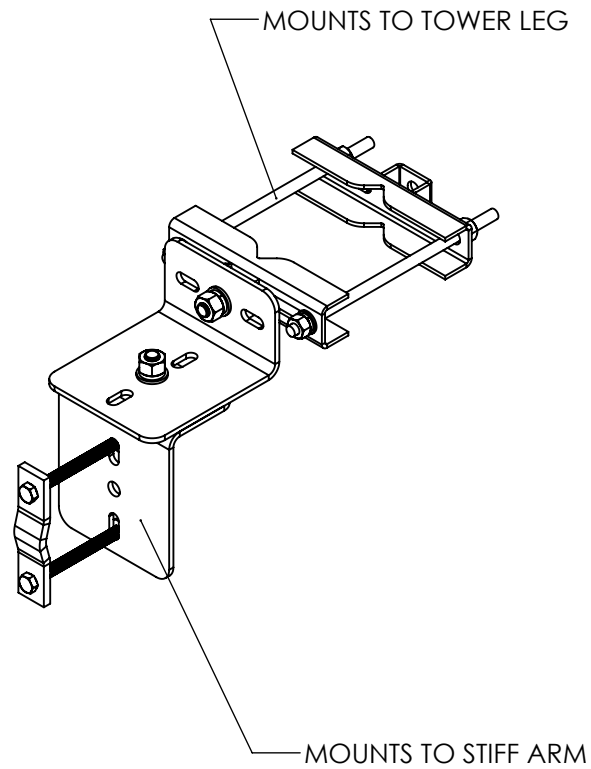
L.I.F.E. MOUNT™ SECTOR FRAME	
DOCUMENT NUMBER	REV
SFA-ENG-01-R7	7

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PV-SAM-U:

FOR SINGLE SECTOR INSTALLATIONS, (2) PV-SAM-U WILL BE REQUIRED PER FRAME TO ALLOW STIFF ARM PIPES TO ATTACH TO TOWER LEGS.

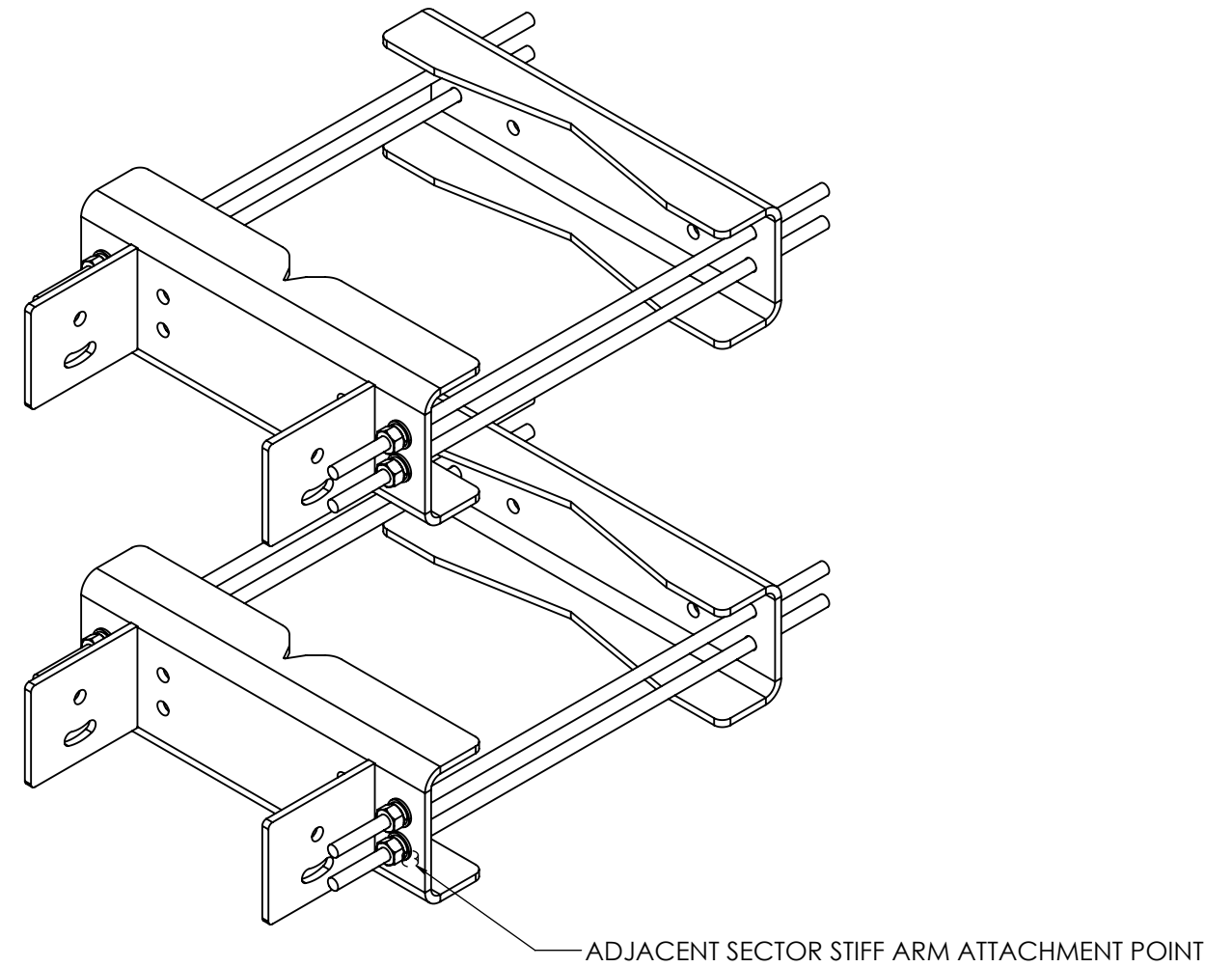
FOR 3 SECTOR INSTALLATIONS, THE PV-SAM-U IS NOT REQUIRED.



PV-SFA-8016

FOR LARGE LEG TOWERS, INSTALL THE PV-SFA-8016 LARGE LEG BRACKETS IN PLACE OF THE STANDARD SUPPLIED BRACKETS.

FOR LARGE LEG APPLICATIONS, THE PV-HSK IS NOT REQUIRED.

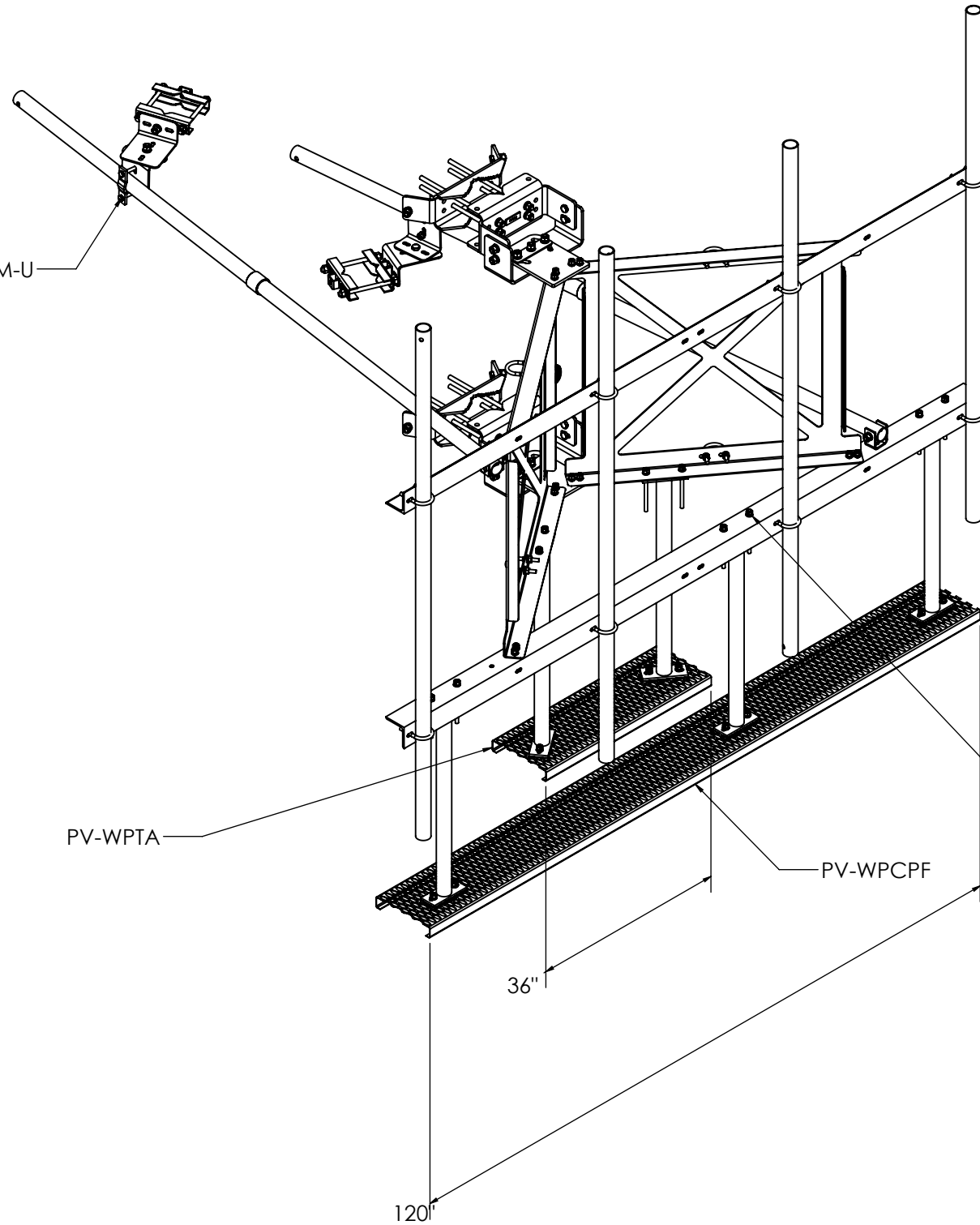


SHEET 6 OF 8	THIRD ANGLE PROJECTION 	CATEGORY	01_Self Support	7	UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES	3/20/18	
		SERIES	02_V-Frames - Assembled	6	UPDATED CLASSIFICATIONS / TEMPLATE	8/30/17	
5/1/2018	SCALE 1:8	TYPE	PV-SFA	5	MOUNT CLASSIFICATIONS	1/19/17	
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ± 1/4°, BEND ± 2° ALL OTHERS: ± 1/16"		BY	DJN	4	ADDED TIE BACK PIPE RANGE	6/9/16	
		CHECKED	SJS	3	L.I.F.E. MOUNT™ UPDATE	2/24/16	
		STATUS	APPROVED	REV	DESCRIPTION	DATE	
						DOCUMENT NUMBER	SFA-ENG-01-R7
						REV	7

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WORK PLATFORM ATTACHMENT

NOTE: SHOWN AS SINGLE SECTOR WITH PV-SAM-U



FIELD DRILL ATTACHMENT HOLES IN FACE ANGLE APPLY 3 COATS ZINGA TO ALL FIELD CUT AND DRILLED SURFACES



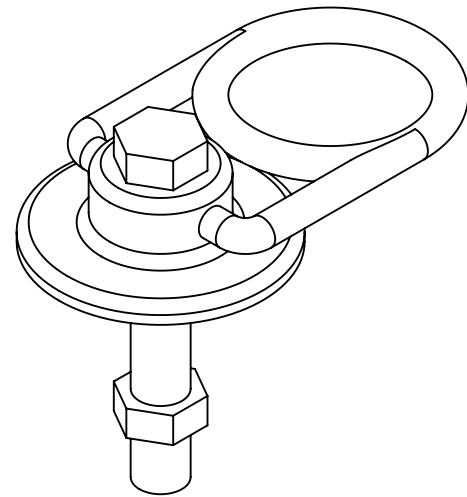
SHEET 7 OF 8	THIRD ANGLE PROJECTION 	CATEGORY 01_Self Support	7	UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES	3/20/18
5/1/2018	SCALE 1:24	SERIES 02_V-Frames - Assembled	6	UPDATED CLASSIFICATIONS / TEMPLATE	8/30/17
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4°, BEND ±2° ALL OTHERS: ±1/16"		TYPE PV-SFA	5	MOUNT CLASSIFICATIONS	1/19/17
		BY DJN	4	ADDED TIE BACK PIPE RANGE	6/9/16
		CHECKED SJS	3	L.I.F.E. MOUNT™ UPDATE	2/24/16
		STATUS APPROVED	REV	DESCRIPTION	DATE
DOCUMENT NUMBER SFA-ENG-01-R7					REV 7

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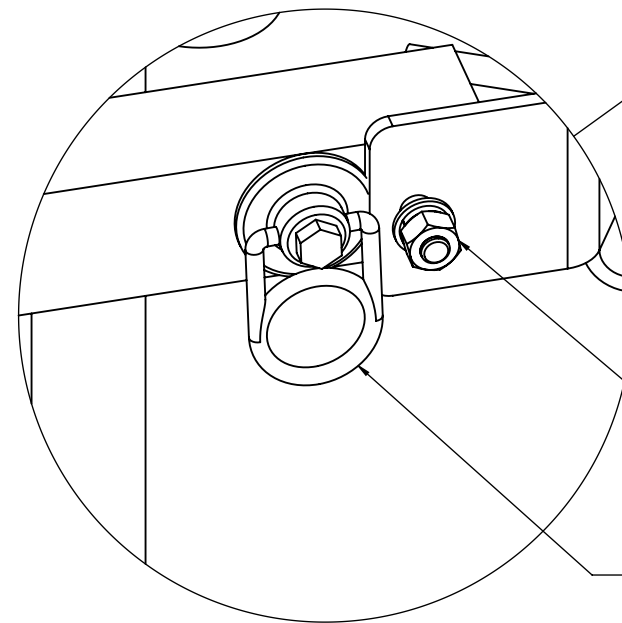
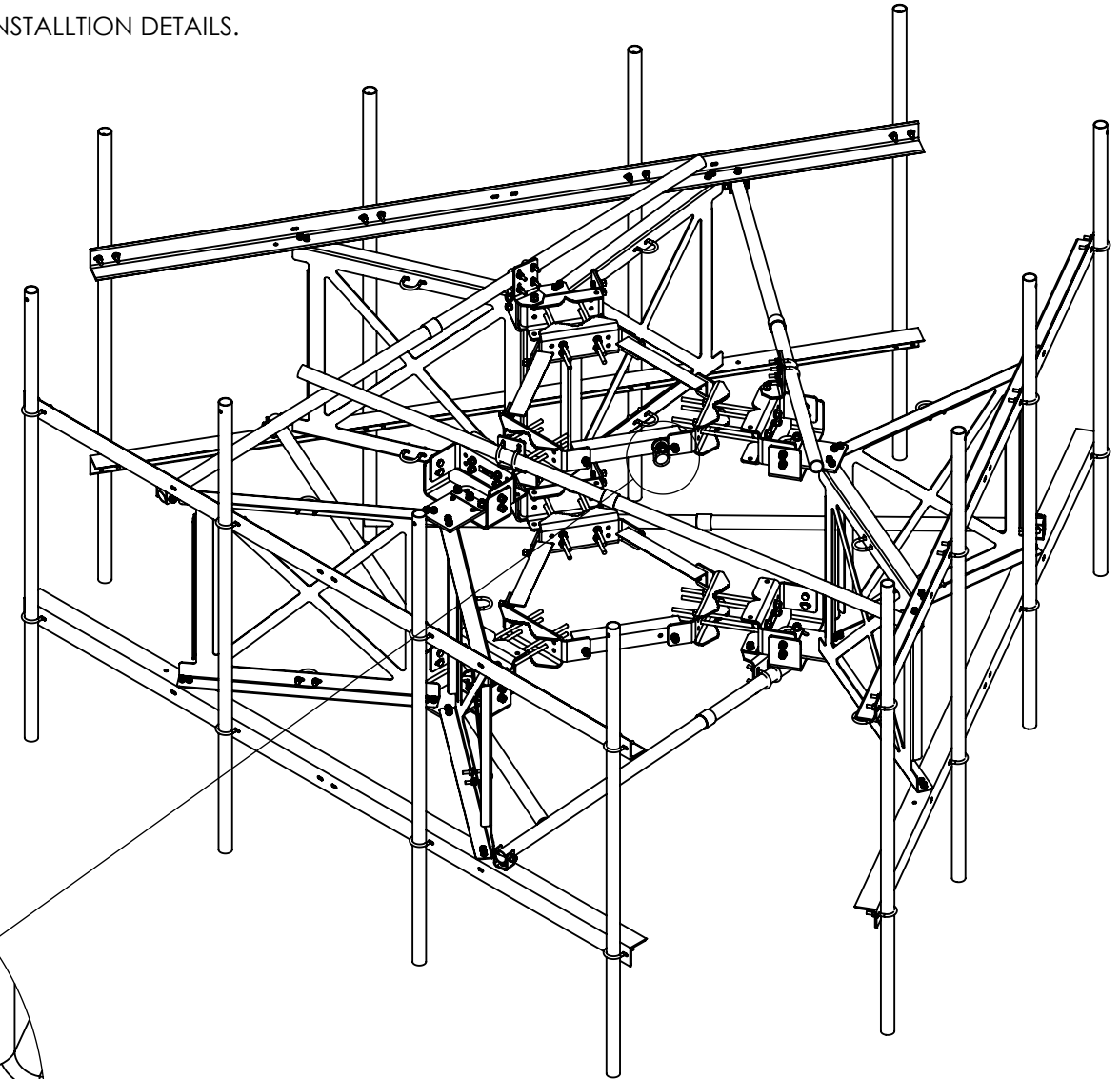
10K SWIVEL ANCHOR

SWIVEL ANCHOR ATTACHMENT NOTES:

- **4" OD AND SMALLER LEGS REQUIRE ADDITIONAL BRACING** BEFORE SWIVLE ANCHORS CAN BE INSTALLED. SEE SHEET 5 FOR PV-HSK INSTALLTION DETAILS.
- LARGE LEG TOWERS DO NOT REQUIRE BRACING DUE TO THE STRUCTURAL CAPACITY OF THE TOWER.
- MAX (1) SWIVEL ANCHORS MAY BE INSTALLED PER LEG ATTACHMENT BRACKET
- SWIVEL ANCHOR SPECS:
 - UTS: 10,000 LBF
 - MAX USER WEIGHT: 310 LBS
 - WORKING LOAD: 2,000 LBS
- FOLLOW MANUFACTURER SPECIFICATIONS FOR SWIVEL ANCHOR INSTALLATION AND MAINTENANCE.



HD26226
10K SWIVEL ANCHOR



FOR LARGE LEG TOWERS, ANCHOR CAN BE ATTACHED DIRECTLY TO LEG BRACKETS

FOR FRAMES WITH PV-HSK, ANCHOR ATTACHES TO HOIRZONTAL BRACE ANGLE.



SHEET 8 OF 8	THIRD ANGLE PROJECTION 	CATEGORY 01_Self Support	7	UPDATED CLASSIFICATIONS. ADDED ADDITIONAL NOTES	3/20/18
5/1/2018	SCALE NTS	SERIES 02_V-Frames - Assembled	6	UPDATED CLASSIFICATIONS / TEMPLATE	8/30/17
DIMENSIONS ARE IN INCHES TOLERANCES U.N.O. HOLES: +1/16", -1/32" ANGULAR: PROFILE ±1/4°, BEND ±2° ALL OTHERS: ±1/16"		TYPE PV-SFA	5	MOUNT CLASSIFICATIONS	1/19/17
		BY DJN	4	ADDED TIE BACK PIPE RANGE	6/9/16
		CHECKED SJS	3	L.I.F.E. MOUNT™ UPDATE	2/24/16
		STATUS APPROVED	REV	DESCRIPTION	DATE
		DOCUMENT NUMBER SFA-ENG-01-R7			REV 7



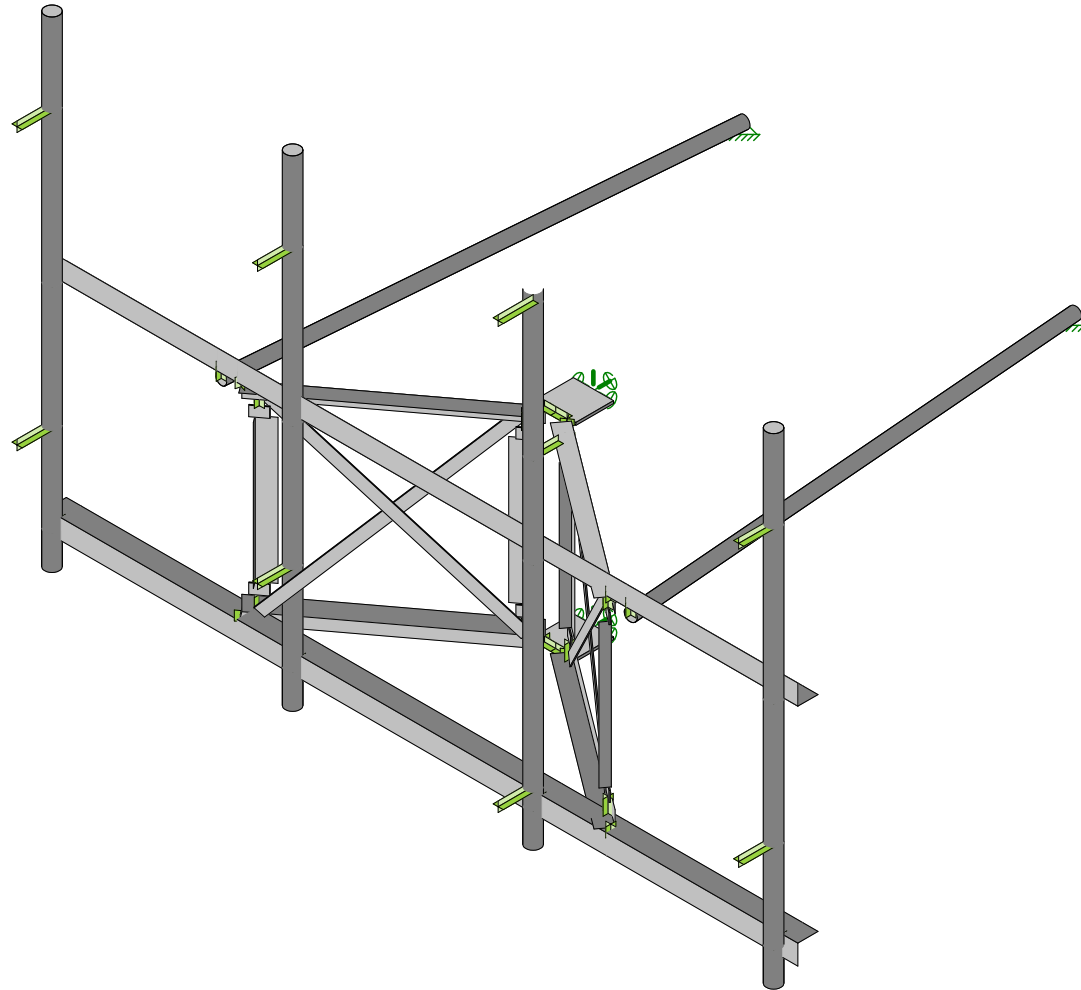
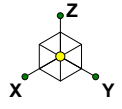
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Wind & Ice Loading			
Nominal Mount Elevation (AGL), z_{mount}	225 ft	K_a	0.90
Nominal Rad Elevation (AGL), z_{rad}	225 ft	K_d	0.95
Elevation AMSL (ft)	-	K_e	-
TIA Standard	G	K_z	1.25
Basic Wind Speed, V_{ult} (bare)	135 mph	K_{zt}	1.00
Basic Wind Speed, V (ice)	50 mph	K_s	-
Design Ice Thickness, t_i	3/4 in	t_{iz}	1.82 in
Exposure Category	B	G_h	1.00
Risk Category	II	q_z (bare)	55.2 psf
Seismic Response Coeff., C_s	-	q_z (ice)	7.6 psf

Live Loading	
At Mount Pipes, L_M	500 lb
Joint Labels Considered	M1
	M2
	M3
	M4

Section Set Label	Shape Label	F_A (lb/ft)		Ice Wt. (lb/ft)
		Bare	Ice	
Offset Horiz	L3x3x3/16	24.85	2.73	12.24
Face Horiz	L4X4X5	33.13	2.82	15.07
Rear PL	PL 8x.5	66.27	7.94	16.05
Mount Pipe	PIPE_2.5	14.29	4.44	10.42
Stiff Arm	PIPE_2.0	11.80	4.10	9.31
Offset Diag	PL 2 1/8x3/16	17.60	3.93	7.30
Offset Vert	L3.25x1.75x3/16	26.92	4.99	12.23
Offset Vert PL	PL3x.1875	24.85	4.53	8.54

Appurtenances																								
Appurtenance Model	Status	Azimuth Offset (°, °)	Rad Elev. Override (ft)	Swap Width & Depth	Area Factor		Qty.	Total Qty. Override	0° Joints		Height (in)	Width (in)	Depth (in)	Weight (Bare) (lb)	Shape	Weight of Ice (lb)	EPA_A (Bare) (ft²)		EPA_A (Ice) (ft²)		F_A (Bare) (lb)		F_A (Ice) (lb)	
					Front	Side			0°	1							2	N	T	N	T	N	T	N
AIR 21 B2A/B4P				<input type="checkbox"/>			1	3	AT1	AT2	55	12	7.9	83	Flat	149.04	5.92	4.22	7.99	6.18	294.44	209.69	54.49	42.10
AIR 21 B2A/B4P				<input type="checkbox"/>			1	3	AT3	AT4	55	12	7.9	83	Flat	149.04	5.92	4.22	7.99	6.18	294.44	209.69	54.49	42.10
APXVAARR24_43-U-NA20				<input type="checkbox"/>			1	3	AT5	AT6	0	0	0	153.3	Generic	409.25	14.67	5.32	17.43	7.76	729.10	264.40	118.85	52.87
AIR 21 B4A/B2P				<input type="checkbox"/>			1	3	AT7	AT8	55	12	7.9	83	Flat	149.04	5.92	4.22	7.99	6.18	294.44	209.69	54.49	42.10
RADIO 4449 B12/B71				<input type="checkbox"/>	0.5		1	3	RR1		15	13.2	10.4	75	Flat	62.54	0.83	1.30	1.31	2.18	41.00	64.61	8.91	14.86

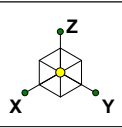


Envelope Only Solution

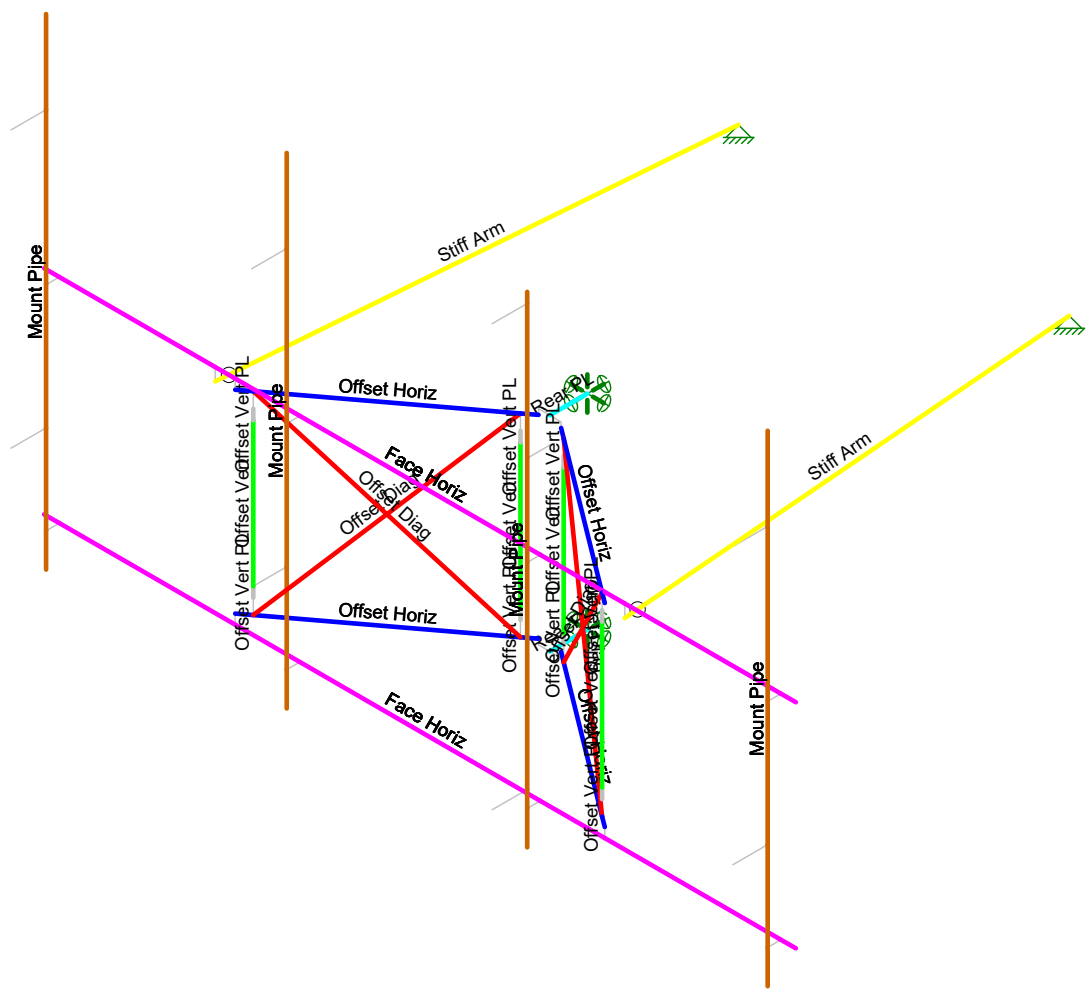
CLS
CWD
41124-12927122-01-MR-R1

41124-12927122-North Stonington CT
Rendered

SK - 1
July 3, 2019 at 11:32 AM
41124-12927122-01-MR-R1.r3d



- Section Sets
- Offset Horiz
 - Offset Vert
 - Offset Diag
 - Offset Vert PL
 - Face Horiz
 - Rear PL
 - Mount Pipe
 - Stiff Arm
 - RIGID

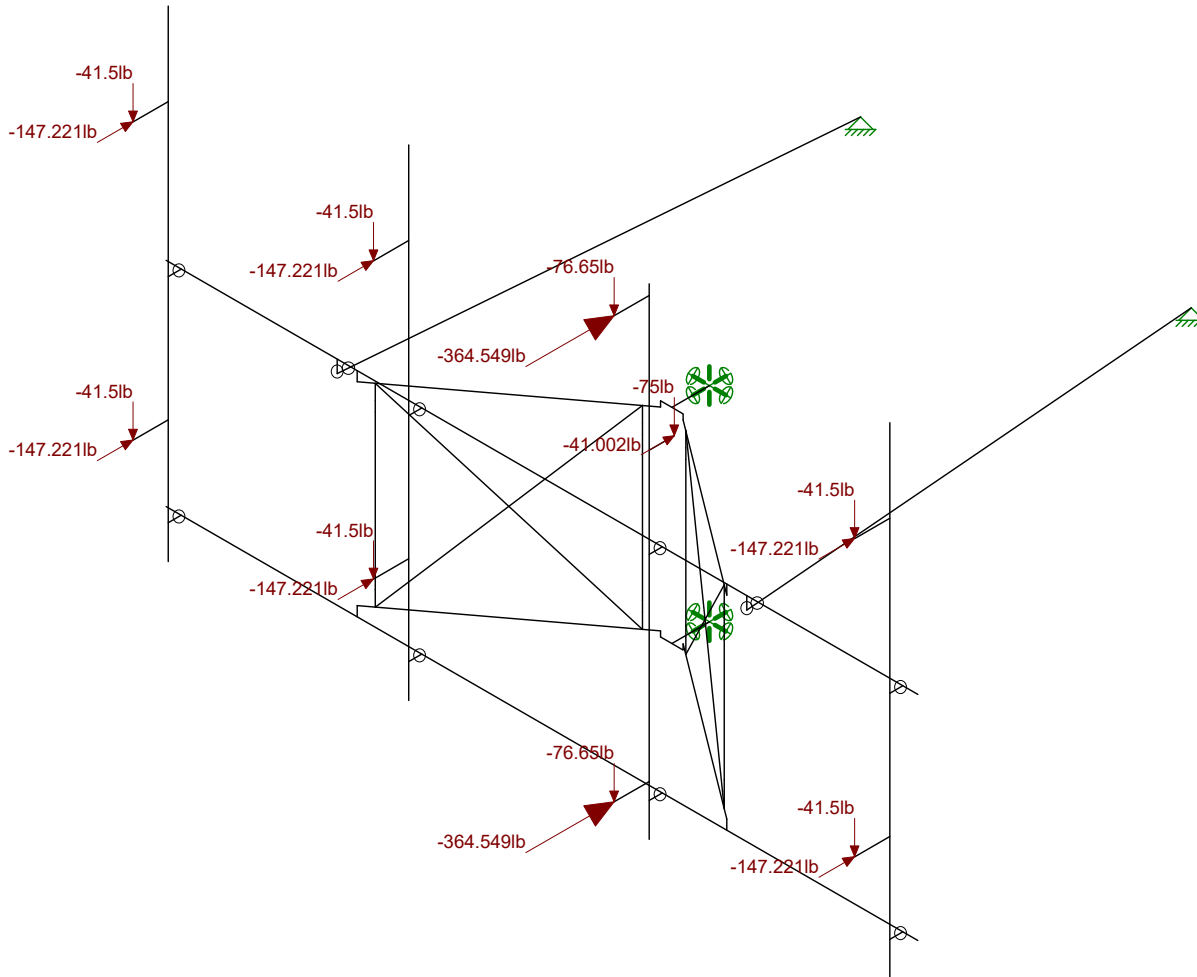
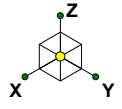


Envelope Only Solution

CLS
CWD
41124-12927122-01-MR-R1

41124-12927122-North Stonington CT
Section Sets

SK - 4
July 3, 2019 at 11:32 AM
41124-12927122-01-MR-R1.r3d

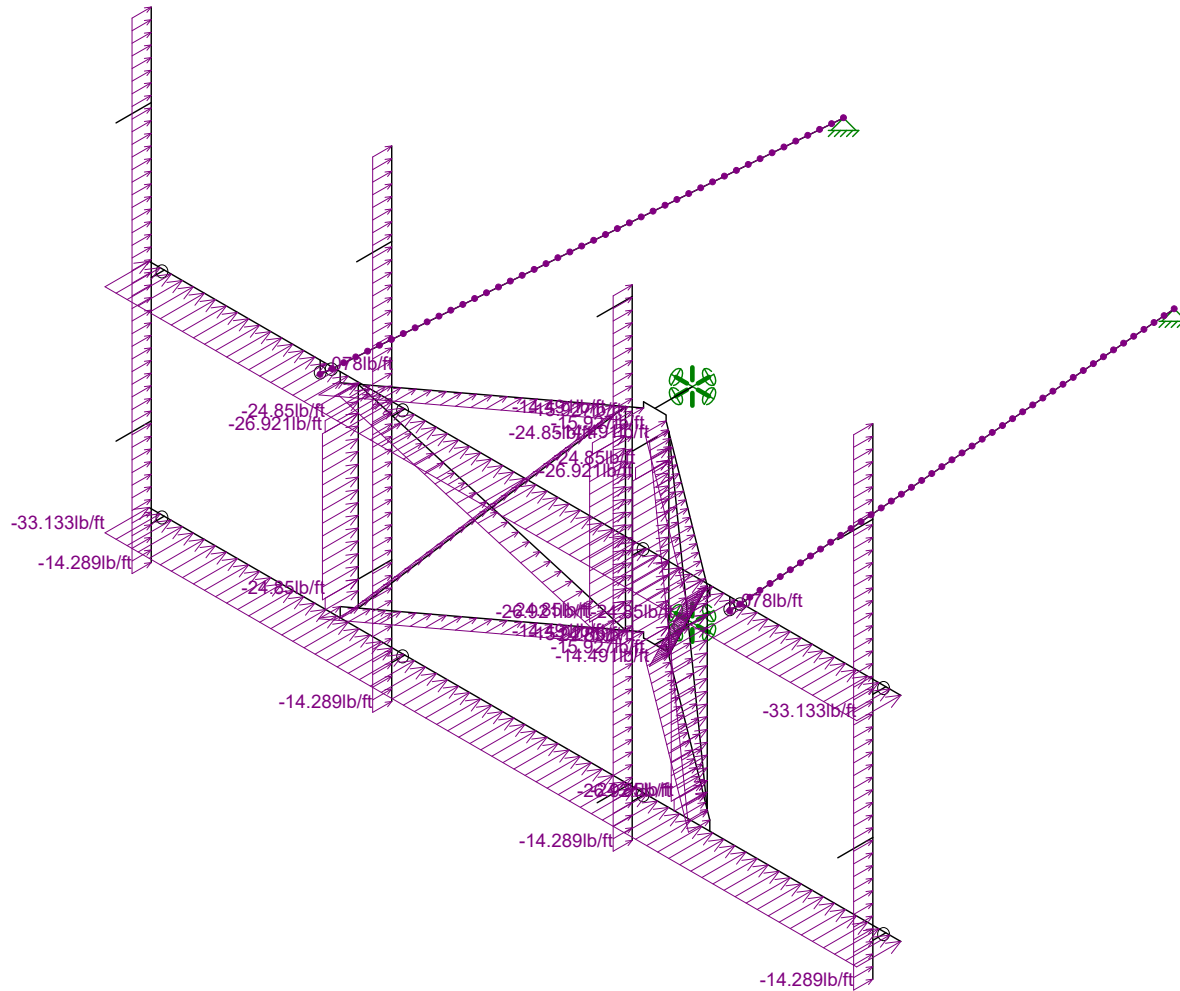
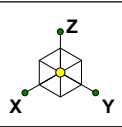


Loads: LC 1, DISPLAY (1.0D + 1.0W_0°)
Envelope Only Solution

CLS
CWD
41124-12927122-01-MR-R1

41124-12927122-North Stonington CT
Joint Loads - Dead and Normal Wind

SK - 5
July 3, 2019 at 11:32 AM
41124-12927122-01-MR-R1.r3d

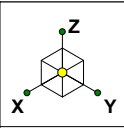


Loads: BLC 4, Structure Wind 0°
Envelope Only Solution

CLS
CWD
41124-12927122-01-MR-R1

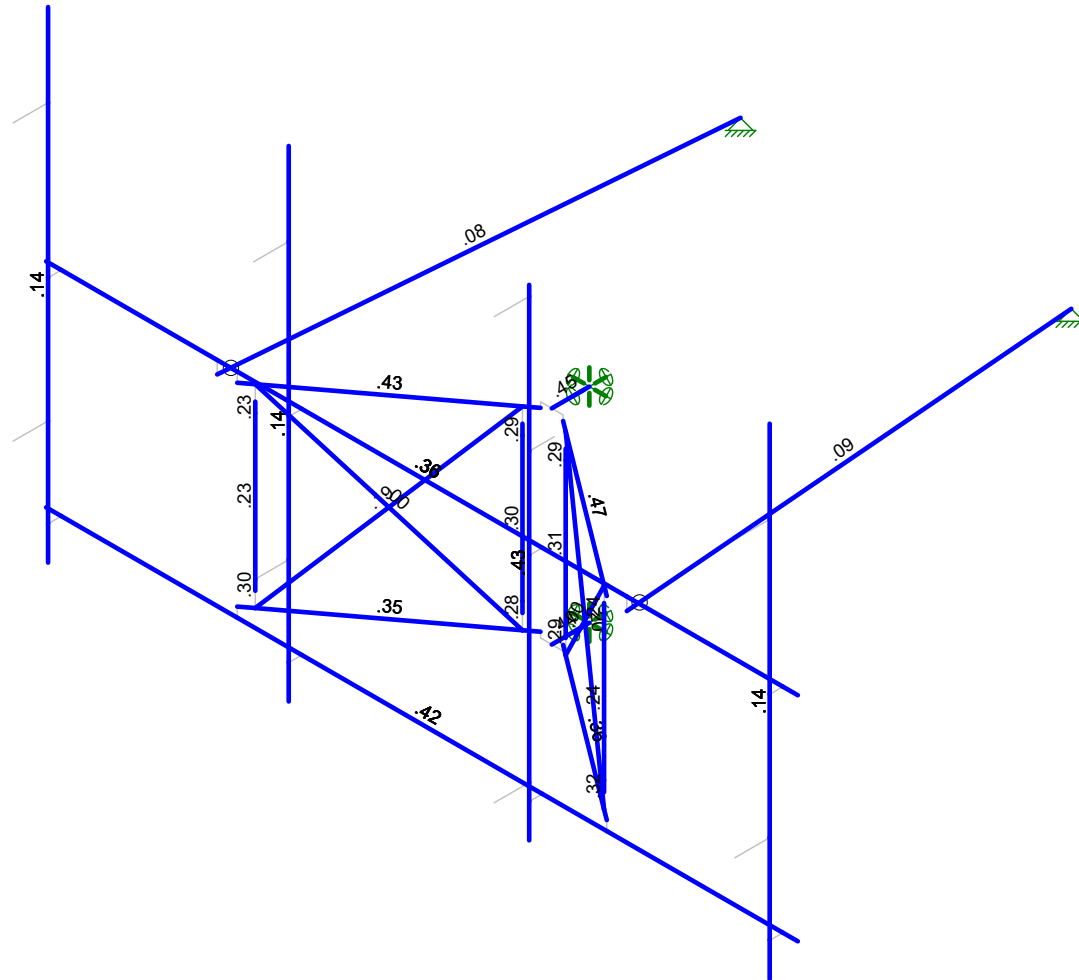
41124-12927122-North Stonington CT
Distributed Load - Normal Wind

SK - 6
July 3, 2019 at 11:32 AM
41124-12927122-01-MR-R1.r3d



Code Check
(Env)

- No Calc
- > 1.0
- .90-1.0
- .75-.90
- .50-.75
- 0-.50



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

CLS
CWD
41124-12927122-01-MR-R1

41124-12927122-North Stonington CT
Envelope Member Unity Check Results - Bending

SK - 8
July 3, 2019 at 11:33 AM
41124-12927122-01-MR-R1.r3d

Basic Load Cases

	BLC Description	Category	X Gravi...	Y Gravi...	Z Gravity	Joint	Point	Distributed	Area(Member)	Surfac...
1	Dead	DL			-1	9				
2	Ice Dead	RL				9		30		
4	Structure Wind 0°	None						28		
5	Structure Wind 30°	None						60		
6	Structure Wind 45°	None						60		
7	Structure Wind 60°	None						60		
8	Structure Wind 90°	None						28		
9	Structure Wind 120°	None						60		
10	Structure Wind 135°	None						60		
11	Structure Wind 150°	None						60		
12	Structure Wind w/ Ice 0°	None						28		
13	Structure Wind w/ Ice 30°	None						60		
14	Structure Wind w/ Ice 45°	None						60		
15	Structure Wind w/ Ice 60°	None						60		
16	Structure Wind w/ Ice 90°	None						28		
17	Structure Wind w/ Ice 120°	None						60		
18	Structure Wind w/ Ice 135°	None						60		
19	Structure Wind w/ Ice 150°	None						60		
20	Antenna Wind 0°	None				9				
21	Antenna Wind 30°	None				18				
22	Antenna Wind 45°	None				18				
23	Antenna Wind 60°	None				18				
24	Antenna Wind 90°	None				9				
25	Antenna Wind 120°	None				18				
26	Antenna Wind 135°	None				18				
27	Antenna Wind 150°	None				18				
28	Antenna Wind w/ Ice 0°	None				9				
29	Antenna Wind w/ Ice 30°	None				18				
30	Antenna Wind w/ Ice 45°	None				18				
31	Antenna Wind w/ Ice 60°	None				18				
32	Antenna Wind w/ Ice 90°	None				9				
33	Antenna Wind w/ Ice 120°	None				18				
34	Antenna Wind w/ Ice 135°	None				18				
35	Antenna Wind w/ Ice 150°	None				18				
39	Maintenance Live 500 (1)	OL1				1				
40	Maintenance Live 500 (2)	OL2				1				
41	Maintenance Live 500 (3)	OL3				1				
42	Maintenance Live 500 (4)	OL4				1				

Load Combinations

	Description	S...P...S...	BLC	Factor	BLC	Factor	BLC	Factor	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	DISPLAY (1.0D + ...Y...	Y	DL	1	20	1												
2	1.4D	Y	DL	1.4														
3	1.2D + 1.0W 0°	Y...Y	DL	1.2	4	1	20	1										
4	1.2D + 1.0W 30°	Y...Y	DL	1.2	5	1	21	1										
5	1.2D + 1.0W 45°	Y...Y	DL	1.2	6	1	22	1										
6	1.2D + 1.0W 60°	Y...Y	DL	1.2	7	1	23	1										
7	1.2D + 1.0W 90°	Y...Y	DL	1.2	8	1	24	1										
8	1.2D + 1.0W 120°	Y...Y	DL	1.2	9	1	25	1										
9	1.2D + 1.0W 135°	Y...Y	DL	1.2	10	1	26	1										
10	1.2D + 1.0W 150°	Y...Y	DL	1.2	11	1	27	1										
11	1.2D + 1.0W 180°	Y...Y	DL	1.2	4	-1	20	-1										
12	1.2D + 1.0W 210°	Y...Y	DL	1.2	5	-1	21	-1										
13	1.2D + 1.0W 225°	Y...Y	DL	1.2	6	-1	22	-1										

Load Combinations (Continued)

	Description	S...	P...	S...	BLC	Factor	BLC	Factor	BLC	Factor	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
14	1.2D + 1.0W 240°	Y...	Y		DL	1.2	7	-1	23	-1												
15	1.2D + 1.0W 270°	Y...	Y		DL	1.2	8	-1	24	-1												
16	1.2D + 1.0W 300°	Y...	Y		DL	1.2	9	-1	25	-1												
17	1.2D + 1.0W 315°	Y...	Y		DL	1.2	10	-1	26	-1												
18	1.2D + 1.0W 330°	Y...	Y		DL	1.2	11	-1	27	-1												
19	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	12	1	28	1	RL	1										
20	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	13	1	29	1	RL	1										
21	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	14	1	30	1	RL	1										
22	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	15	1	31	1	RL	1										
23	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	16	1	32	1	RL	1										
24	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	17	1	33	1	RL	1										
25	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	18	1	34	1	RL	1										
26	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	19	1	35	1	RL	1										
27	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	12	-1	28	-1	RL	1										
28	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	13	-1	29	-1	RL	1										
29	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	14	-1	30	-1	RL	1										
30	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	15	-1	31	-1	RL	1										
31	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	16	-1	32	-1	RL	1										
32	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	17	-1	33	-1	RL	1										
33	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	18	-1	34	-1	RL	1										
34	1.2D + 1.0Di + 1.0...	Y...	Y		DL	1.2	19	-1	35	-1	RL	1										
35	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	4	.052	20	.052	O...	1.5										
36	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	5	.052	21	.052	O...	1.5										
37	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	6	.052	22	.052	O...	1.5										
38	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	7	.052	23	.052	O...	1.5										
39	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	8	.052	24	.052	O...	1.5										
40	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	9	.052	25	.052	O...	1.5										
41	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	10	.052	26	.052	O...	1.5										
42	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	11	.052	27	.052	O...	1.5										
43	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	4	-.052	20	-.052	O...	1.5										
44	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	5	-.052	21	-.052	O...	1.5										
45	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	6	-.052	22	-.052	O...	1.5										
46	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	7	-.052	23	-.052	O...	1.5										
47	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	8	-.052	24	-.052	O...	1.5										
48	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	9	-.052	25	-.052	O...	1.5										
49	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	10	-.052	26	-.052	O...	1.5										
50	1.2D + 1.5Lm_1 +...	Y...	Y		DL	1.2	11	-.052	27	-.052	O...	1.5										
51	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	4	.052	20	.052	O...	1.5										
52	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	5	.052	21	.052	O...	1.5										
53	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	6	.052	22	.052	O...	1.5										
54	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	7	.052	23	.052	O...	1.5										
55	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	8	.052	24	.052	O...	1.5										
56	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	9	.052	25	.052	O...	1.5										
57	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	10	.052	26	.052	O...	1.5										
58	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	11	.052	27	.052	O...	1.5										
59	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	4	-.052	20	-.052	O...	1.5										
60	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	5	-.052	21	-.052	O...	1.5										
61	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	6	-.052	22	-.052	O...	1.5										
62	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	7	-.052	23	-.052	O...	1.5										
63	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	8	-.052	24	-.052	O...	1.5										
64	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	9	-.052	25	-.052	O...	1.5										
65	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	10	-.052	26	-.052	O...	1.5										
66	1.2D + 1.5Lm_2 +...	Y...	Y		DL	1.2	11	-.052	27	-.052	O...	1.5										
67	1.2D + 1.5Lm_3 +...	Y...	Y		DL	1.2	4	.052	20	.052	O...	1.5										
68	1.2D + 1.5Lm_3 +...	Y...	Y		DL	1.2	5	.052	21	.052	O...	1.5										
69	1.2D + 1.5Lm_3 +...	Y...	Y		DL	1.2	6	.052	22	.052	O...	1.5										
70	1.2D + 1.5Lm_3 +...	Y...	Y		DL	1.2	7	.052	23	.052	O...	1.5										

Load Combinations (Continued)

	Description	S...	P...	S...	BLC	Factor	BLC	Factor	BLC	Factor	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	
71	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	8	.052	24	.052	O...	1.5											
72	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	9	.052	25	.052	O...	1.5											
73	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	10	.052	26	.052	O...	1.5											
74	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	11	.052	27	.052	O...	1.5											
75	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	4	-.052	20	-.052	O...	1.5											
76	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	5	-.052	21	-.052	O...	1.5											
77	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	6	-.052	22	-.052	O...	1.5											
78	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	7	-.052	23	-.052	O...	1.5											
79	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	8	-.052	24	-.052	O...	1.5											
80	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	9	-.052	25	-.052	O...	1.5											
81	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	10	-.052	26	-.052	O...	1.5											
82	1.2D + 1.5Lm_3 +...	Y		Y	DL	1.2	11	-.052	27	-.052	O...	1.5											
83	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	4	.052	20	.052	O...	1.5											
84	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	5	.052	21	.052	O...	1.5											
85	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	6	.052	22	.052	O...	1.5											
86	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	7	.052	23	.052	O...	1.5											
87	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	8	.052	24	.052	O...	1.5											
88	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	9	.052	25	.052	O...	1.5											
89	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	10	.052	26	.052	O...	1.5											
90	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	11	.052	27	.052	O...	1.5											
91	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	4	-.052	20	-.052	O...	1.5											
92	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	5	-.052	21	-.052	O...	1.5											
93	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	6	-.052	22	-.052	O...	1.5											
94	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	7	-.052	23	-.052	O...	1.5											
95	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	8	-.052	24	-.052	O...	1.5											
96	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	9	-.052	25	-.052	O...	1.5											
97	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	10	-.052	26	-.052	O...	1.5											
98	1.2D + 1.5Lm_4 +...	Y		Y	DL	1.2	11	-.052	27	-.052	O...	1.5											

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (1/E...)	Density [lb/f...	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	.3	.65	490	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	490	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	490	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	490	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	490	50	1.4	65	1.3

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Offset Horiz	L3x3x3/16	Beam	None	A36 Gr.36	Typical	1.09	.962	.962	.012
2	Offset Vert	L3.25x1.75x3/16	Beam	None	A36 Gr.36	Typical	.902	.213	1.001	.01
3	Offset Diaq	PL 2 1/8x3/16	Beam	None	A36 Gr.36	Typical	.398	.001	.15	.004
4	Offset Vert PL	PL3x.1875	Beam	None	A36 Gr.36	Typical	.563	.002	.422	.006
5	Face Horiz	L4X4X5	Beam	None	A36 Gr.36	Typical	2.4	3.67	3.67	.083
6	Rear PL	PL 8x.5	Beam	None	A36 Gr.36	Typical	4	.083	21.333	.32
7	Mount Pipe	PIPE 2.5	Beam	None	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
8	Stiff Arm	PIPE 2.0	Beam	None	A53 Gr.B	Typical	1.02	.627	.627	1.25

Hot Rolled Steel Design Parameters

	Label	Shape	Length[in]	Lbyy[in]	Lbzz[in]	Lcomp top[in]	Lcomp bot[in]	L-torq...	Kyy	Kzz	Cb	Function
1	M1	Offset Horiz	43.25			Lbyy						Lateral
2	M4	Offset Horiz	43.25			Lbyy						Lateral
3	M61	Face Horiz	150	74	48	Lbyy						Lateral
4	M62	Face Horiz	150	74	48	Lbyy						Lateral
5	M67	Rear PL	7.5			Lbyy						Lateral
6	M72	Rear PL	7.5			Lbyy						Lateral
7	M81	Mount Pipe	96			Lbyy						Lateral
8	M82	Mount Pipe	96			Lbyy						Lateral
9	M83	Mount Pipe	96			Lbyy						Lateral
10	M84	Mount Pipe	96			Lbyy						Lateral
11	M106	Stiff Arm	96.895			Lbyy						Lateral
12	M108	Stiff Arm	96.895			Lbyy						Lateral
13	M125B	Offset Horiz	43.25			Lbyy						Lateral
14	M126B	Offset Horiz	43.25			Lbyy						Lateral
15	M196	Offset Diag	54.296			Lbyy			.65	.65		Lateral
16	M197	Offset Diag	54.296			Lbyy			.65	.65		Lateral
17	M183A	Offset Vert	28.688			Lbyy			.65	.65		Lateral
18	M184A	Offset Vert	28.688			Lbyy			.65	.65		Lateral
19	M67A	Offset Vert ...	2			Lbyy						Lateral
20	M68A	Offset Vert ...	2			Lbyy						Lateral
21	M71A	Offset Vert ...	2			Lbyy						Lateral
22	M72A	Offset Vert ...	2			Lbyy						Lateral
23	M69B	Offset Diag	54.296			Lbyy			.65	.65		Lateral
24	M70B	Offset Diag	54.296			Lbyy			.65	.65		Lateral
25	M71B	Offset Vert	28.688			Lbyy			.65	.65		Lateral
26	M72B	Offset Vert	28.688			Lbyy			.65	.65		Lateral
27	M75A	Offset Vert ...	2			Lbyy						Lateral
28	M76A	Offset Vert ...	2			Lbyy						Lateral
29	M79A	Offset Vert ...	2			Lbyy						Lateral
30	M80A	Offset Vert ...	2			Lbyy						Lateral

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N78	max	1367.792	3	2034.073	15	1749.879	27	46.327	17	-171.686	1	0	98
2		min	-2987.478	11	-2237.961	7	411.699	3	-43.439	9	-591.747	27	0	1
3	N82	max	2640.749	19	1417.879	45	1697.135	19	34.942	49	-149.15	11	0	98
4		min	337.26	11	-1214.103	85	400.177	11	-33.339	89	-584.134	19	0	1
5	N112B	max	1169.664	17	85.553	10	54.697	24	0	98	0	98	0	98
6		min	-1300.471	9	-75.846	18	14.002	1	0	1	0	1	0	1
7	N113	max	1318.791	5	94.631	4	54.767	29	0	98	0	98	0	98
8		min	-1449.991	13	-103.968	12	13.887	1	0	1	0	1	0	1
9	Totals:	max	3722.691	3	2324.81	15	3484.196	28						
10		min	-3722.696	11	-2324.81	7	1039.774	1						

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

	Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn
1	M61	L4X4X5	.361	37.895	35	.531	34.737	z	13	48416...	77760	3776.8..	7979.0...	H2-1
2	M4	L3x3x3/16	.466	0	8	.396	40.974	z	4	25007...	35310...	1354.1..	2854.6.....	H2-1
3	M126B	L3x3x3/16	.432	0	6	.366	40.974	y	18	25007...	35310...	1354.1..	2854.6.....	H2-1
4	M1	L3x3x3/16	.361	2.276	31	.267	0	y	13	25007...	35310...	1354.1..	2854.6.....	H2-1
5	M125B	L3x3x3/16	.354	2.276	23	.260	0	z	9	25007...	35310...	1354.1..	2854.6.....	H2-1
6	M81	PIPE_2.5	.142	49.516	11	.125	48.505		10	30038...	50715	3596.25	3596.25...	H1-1b
7	M84	PIPE_2.5	.142	49.516	11	.124	48.505		12	30038...	50715	3596.25	3596.25...	H1-1b

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

Member	Shape	Code Check	Loc[in]	LC	Shear Check	Loc[in]	Dir	LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn	
8	M82	PIPE 2.5	.431	49.516	11	.109	48.505		9	30038...	50715	3596.25	3596.25...	H1-1b
9	M83	PIPE 2.5	.141	49.516	11	.106	48.505		17	30038...	50715	3596.25	3596.25...	H1-1b
10	M67	PL 8x.5	.449	7.5	27	.081	7.5	y	9	11221...	129600	1350	21600...	H1-1b
11	M62	L4X4X5	.418	112.1...	43	.066	99.474	y	4	48416...	77760	3776.8...	5962.76 1	H2-1
12	M72	PL 8x.5	.444	7.5	19	.061	7.5	y	49	11221...	129600	1350	21600...	H1-1b
13	M72A	PL3x.1875	.282	2	24	.059	2	y	50	16927...	18225	71.191	1139.0.....	H1-1b
14	M68A	PL3x.1875	.289	2	8	.059	2	y	50	16927...	18225	71.191	1139.0.....	H1-1b
15	M80A	PL3x.1875	.287	2	30	.056	2	y	95	16927...	18225	71.191	1139.0.....	H1-1b
16	M76A	PL3x.1875	.289	2	14	.056	0	y	90	16927...	18225	71.191	1139.0.....	H1-1b
17	M75A	PL3x.1875	.241	2	11	.044	0	y	10	16927...	18225	71.191	1139.0.....	H1-1b
18	M67A	PL3x.1875	.227	0	92	.041	0	y	13	16927...	18225	71.191	1139.0.....	H1-1b
19	M79A	PL3x.1875	.323	0	12	.035	0	y	10	16927...	18225	71.191	1139.0.....	H1-1b
20	M184A	L3.25x1.75x3/16	.303	28.688	22	.033	0	y	50	22948...	29235...	473.675	1883.2.....	H2-1
21	M71A	PL3x.1875	.297	0	10	.033	2	y	9	16927...	18225	71.191	1139.0.....	H1-1b
22	M72B	L3.25x1.75x3/16	.306	0	32	.031	28.688	y	95	22948...	29235...	473.675	1883.2.....	H2-1
23	M71B	L3.25x1.75x3/16	.243	0	42	.024	28.688	y	10	22948...	29235...	473.675	1883.2.....	H2-1
24	M183A	L3.25x1.75x3/16	.233	28.688	92	.023	0	y	13	22948...	29235...	473.675	1883.2.....	H2-1
25	M196	PL 2 1/8x3/16	.190	0	93	.022	54.296	y	18	211.664	12909...	50.428	425.976...	H1-1b*
26	M69B	PL 2 1/8x3/16	.204	0	41	.022	54.296	y	4	211.664	12909...	50.428	424.955...	H1-1a*
27	M108	PIPE 2.0	.085	47.938	15	.006	0		31	14703...	32130	1871.6...	1871.6.....	H1-1b
28	M106	PIPE 2.0	.090	96.895	5	.006	0		31	14703...	32130	1871.6...	1871.6.....	H1-1b*
29	M197	PL 2 1/8x3/16	.000	0	98	.000	0	y	98	211.664	12909...	50.428	177.687 1	H1-1a
30	M70B	PL 2 1/8x3/16	.000	0	98	.000	0	y	98	211.664	12909...	50.428	177.687 1	H1-1a

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

T-Mobile Existing Facility

Site ID: CT11266A

North Stonington-3_1
118 Wintechog Hill Road
North Stonington, Connecticut 06359

June 11, 2019

EBI Project Number: 6219002186

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	10.61%

June 11, 2019

T-Mobile
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11266A - North Stonington-3_1

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **118 Wintechog Hill Road in North Stonington, 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 118 Wintechog Hill Road in North Stonington, 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 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) 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.
- 3) 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.
- 4) 2 UMTS 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 (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

- 6) 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.
- 7) 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.
- 8) The antennas used in this modeling are the Ericsson AIR 21 for the 1900 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-UNA20 for the 600 MHz / 700 MHz channel(s), the Ericsson AIR 21 for the 2100 MHz channel(s) in Sector A, the Ericsson AIR 21 for the 1900 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-UNA20 for the 600 MHz / 700 MHz channel(s), the Ericsson AIR 21 for the 2100 MHz channel(s) in Sector B, the Ericsson AIR 21 for the 1900 MHz / 1900 MHz channel(s), the RFS APXVAARR24_43-UNA20 for the 600 MHz / 700 MHz channel(s), the Ericsson AIR 21 for the 2100 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.
- 9) The antenna mounting height centerline of the proposed antennas is 225 feet above ground level (AGL).
- 10) 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.
- 11) 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:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21
Frequency Bands:	1900 MHz / 1900 MHz	Frequency Bands:	1900 MHz / 1900 MHz	Frequency Bands:	1900 MHz / 1900 MHz
Gain:	15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd
Height (AGL):	225 feet	Height (AGL):	225 feet	Height (AGL):	225 feet
Channel Count:	6	Channel Count:	6	Channel Count:	6
Total TX Power (W):	180 Watts	Total TX Power (W):	180 Watts	Total TX Power (W):	180 Watts
ERP (W):	6,169.82	ERP (W):	6,169.82	ERP (W):	6,169.82
Antenna A1 MPE %:	0.44%	Antenna B1 MPE %:	0.44%	Antenna C1 MPE %:	0.44%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	RFS APXVAARR24_43-UNA20	Make / Model:	RFS APXVAARR24_43-UNA20	Make / Model:	RFS APXVAARR24_43-UNA20
Frequency Bands:	600 MHz / 700 MHz	Frequency Bands:	600 MHz / 700 MHz	Frequency Bands:	600 MHz / 700 MHz
Gain:	12.95 dBd / 13.35 dBd	Gain:	12.95 dBd / 13.35 dBd	Gain:	12.95 dBd / 13.35 dBd
Height (AGL):	225 feet	Height (AGL):	225 feet	Height (AGL):	225 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	120 Watts	Total TX Power (W):	120 Watts	Total TX Power (W):	120 Watts
ERP (W):	2,481.08	ERP (W):	2,481.08	ERP (W):	2,481.08
Antenna A2 MPE %:	0.41%	Antenna B2 MPE %:	0.41%	Antenna C2 MPE %:	0.41%
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21
Frequency Bands:	2100 MHz	Frequency Bands:	2100 MHz	Frequency Bands:	2100 MHz
Gain:	15.35 dBd	Gain:	15.35 dBd	Gain:	15.35 dBd
Height (AGL):	225 feet	Height (AGL):	225 feet	Height (AGL):	225 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):	4,113.21	ERP (W):	4,113.21	ERP (W):	4,113.21
Antenna A4 MPE %:	0.29%	Antenna B4 MPE %:	0.29%	Antenna C4 MPE %:	0.29%

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	1.14%
AT&T	1.2%
Metro PCS	0.22%
Sprint	0.8%
State Police	0.67%
MobileComm	0.33%
Nextel	0.14%
Various Others	6.11%
Site Total MPE % :	10.61%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	1.14%
T-Mobile Sector B Total:	1.14%
T-Mobile Sector C Total:	1.14%
Site Total MPE % :	
	10.61%

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 1900 MHz GSM	4	1028.30	225.0	2.92	1900 MHz GSM	1000	0.29%
T-Mobile 1900 MHz UMTS	2	1028.30	225.0	1.46	1900 MHz UMTS	1000	0.15%
T-Mobile 600 MHz LTE	2	591.73	225.0	0.84	600 MHz LTE	400	0.21%
T-Mobile 700 MHz LTE	2	648.82	225.0	0.92	700 MHz LTE	467	0.20%
T-Mobile 2100 MHz LTE	2	2056.61	225.0	2.92	2100 MHz LTE	1000	0.29%
						Total:	1.14%

• 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:	1.14%
Sector B:	1.14%
Sector C:	1.14%
T-Mobile Maximum MPE % (Sector A):	1.14%
Site Total:	10.61%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **10.61%** 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.