

Transcend Wireless
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Chris Bisson
Real Estate Consultant

May 7, 2014

Hand Delivered

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

RE: T-Mobile Northeast LLC notice of intent to modify an existing telecommunications facility located at 118 Wintechog Hill Road, North Stonington, CT, 06359. Known to T-Mobile Northeast LLC as site CT11266A.

Dear Ms. Bachman:

In order to accommodate technological changes, implement Global System for Mobile Communications Access (“GSM”) and/or Long Term Evolution (“LTE”) capabilities, and enhance system performance in the state of Connecticut, T-Mobile Northeast LLC plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and its attachments is being sent to the chief elected official of the municipality in which affected cell site is located.

GSM employs Spread-Spectrum technology and special coding scheme to allow multiple users to be multiplexed over the same physical channel. LTE is a new high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

As part of the project the new multi-mode 800/1900 antenna will replace existing antennas. These antennas will provide more flexibility for optimization by allowing fast and easy electrical tilt adjustment from remote location and will enable the transmission of multiple technologies from a single antenna. As T-Mobile Northeast LLC network evolves to meet the demands of its customers, it is essential for T-Mobile Northeast LLC to install modern equipment and antennas in order to provide reliable wireless voice and data services. The proposed equipment will include multi-mode radios that will allow T-Mobile Northeast LLC to transmit at different frequencies using different technologies, including LTE technology. Likewise, the proposed antennas are quad-pole multi-band high gain antennas that will allow T-Mobile Northeast LLC to operate using its multiple

frequency bands and technologies, including LTE technology. The proposed equipment and antennas will improve the reliability, coverage and capacity of T-Mobile Northeast LLC voice and data networks across T-Mobile Northeast LLC various FCC licensed frequency bands and significantly increase the data speeds of T-Mobile Northeast LLC 's network by utilizing the latest LTE technology. Without the proposed modifications T-Mobile Northeast LLC will be unable to provide reliable wireless voice and data service using the latest technologies.

T-Mobile Northeast LLC will have an interim (testing) period during the modification/installation prior to the final configuration. This antenna configuration is shown on the attached drawings of the planned modifications. Also included is the power density calculation reflecting the change in T-Mobile Northeast LLC operations at the site and documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modification as defined Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for the R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will not be affected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound.
3. The proposed changes will not increase the noise level at the existing facility by 6 decibels or more.
4. Radio Frequency power density may increase due to the use of one or more GSM transmissions. Moreover, LTE will utilize additional radio frequencies newly licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons T-Mobile Northeast LLC respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (845) 499-4712 or email jnotaro@transcendwireless.com with questions concerning this matter.

Thank you for your consideration.

Sincerely,

Jennifer Notaro
(845) 499-4712

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, CT 06359

May 5, 2014

May 5, 2014

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

Re: Emissions Values for Site: **CT11266A - North Stonington 3-1**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 118 Wintechog Hill Road, North Stonington, CT, 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 public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

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 limit for the cellular band is $567 \mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS and AWS 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, North Stonington, CT, 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, the actual antenna pattern gain value in the direction of the sample area was used. For this report the sample point is a 6 foot person standing at the base of the tower

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

- 1) 2 GSM / UMTS channels (1935.000 MHz to 1945.000 MHz / 1983.000 MHz to 1984.000 MHz) were considered for each sector of the proposed installation.
- 2) 4 UMTS / LTE channels (2110.000 to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation
- 3) 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.
- 4) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufactures supplied specifications.
- 5) The antenna used in this modeling is the Ericsson AIR21 for LTE, UMTS and GSM. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 15.6 dBd gain value at its main lobe. Actual antenna gain values were used for all calculations as per the manufacturers specifications

- 6) The antenna mounting height centerline of the proposed antennas is **225 feet** above ground level (AGL)
- 7) 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.

All calculations were done with respect to uncontrolled / general public threshold limits.

Site ID	CT11266A - North Stonington 3-1
Site Address	118 Wintechog Hill Road, North Stonington, CT 06359
Site Type	Self Support Tower

Sector 1

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	225	219	None	0	0	48.326044	0.362242	0.036222%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	-	-	0	-3.95	225	219	None	0	0	0	0	0.000000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	225	219	1-5/8"	0	0	24.163022	0.181121	0.018111%
2b	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	225	219	1-5/8"	0	0	24.163022	0.181121	0.018111%
Sector total Power Density Value: 0.072%																	

Sector 2

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	225	219	None	0	0	48.326044	0.362242	0.036222%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	-	-	0	-3.95	225	219	None	0	0	0	0	0.000000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	225	219	1-5/8"	0	0	24.163022	0.181121	0.018111%
2b	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	225	219	1-5/8"	0	0	24.163022	0.181121	0.018111%
Sector total Power Density Value: 0.072%																	

Sector 3

Antenna Number	Antenna Make	Antenna Model	Status	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Ericsson	AIR21 B4A/B2P	Active	AWS - 2100 MHz	LTE	60	2	120	-3.95	225	219	None	0	0	48.326044	0.362242	0.036222%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-	-	-	0	-3.95	225	219	None	0	0	0	0	0.000000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	225	219	1-5/8"	0	0	24.163022	0.181121	0.018111%
2b	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	225	219	1-5/8"	0	0	24.163022	0.181121	0.018111%
Sector total Power Density Value: 0.072%																	

Site Composite MPE %

Carrier	MPE %
T-Mobile	0.217%
AT&T	11.220%
MetroPCS	1.990%
Sprint	0.780%
State Police	0.120%
State Police Microwave	5.620%
Mobile Comm	2.980%
PageNet	1.020%
Destineer	0.830%
TSR Paging	0.900%
Air Touch	29.490%
Nextel	1.290%
FM Broadcast	19.700%
Page Mart	3.750%
Total Site MPE %	79.907%

Summary

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

The anticipated Maximum Composite contributions from the T-Mobile facility are **0.217% (0.072% from each sector)** of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **79.907%** of the allowable FCC established general public 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.



Scott Heffernan
RF Engineering Director

EBI Consulting
21 B Street
Burlington, MA 01803



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 : 58044121
Proposed Carrier : T-Mobile
Carrier Site Name : North Stonington CT
Carrier Site Number : CT11266A
Site Location : 118C Wintechog Hill Rd., off of Rt. 2
North Stonington, CT 06359-1228
41.459839,-71.927338
County : New London
Date : April 28, 2014
Max Usage : 58%
Result : Pass

Carlos E. Hoyos, E.I.
Structural Engineer I



Apr 30 2014 5:34 PM



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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

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/EIA-222.

Basic Wind Speed:	85 mph (Fastest Mile)
Basic Wind Speed w/ Ice:	74 mph (Fastest Mile)w/ 1/2" radial ice concurrent
Code:	ANSI/TIA/EIA-222-F / 2003 IBC , Sec. 1609.1.1, Exception (5) & Sec. 3108.4 w/ 2005 CT Supplement & 2009 CT Amendment

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

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
250.0	250.0	9	Decibel DB980H90E-KL	Sector Frame	(18) 1 5/8" Coax	Sprint Nextel
		2	Decibel DB806-A		(4) 1 5/8" Coax (1) 1/2" Coax	Ct State Police Dept.
232.0	238.5	1	15' FM Antenna	Leg	(1) 1 5/8" Coax	Red Wolf
210.0	210.0	12	Andrew SMR08-09012-0D	Sector Frame	(12) 1 5/8" Coax	Sprint Nextel
192.0	193.0	1	Scala OGB6-928D	Side Arm	(3) 1/2" Coax (1) 7/8" Coax	Weblink Wireless
169.0	175.0	1	Raycap DC6-48-60-18-8F	Sector Frame	(12) 1 5/8" Coax (2) 19.7 mm Cable (1) 10 mm Cable	AT&T Mobility
		1	Andrew SBNH-1D6565C			
		1	Powerwave P65-17-XLH-RR			
		1	KMW AM-X-CD-14-65-00T-RET			
		6	Ericsson RRUS-11 1900MHz			
		6	Allgon 7770.00			
		6	Powerwave LGP21903			
6	Powerwave LGP17201					
162.0	162.0	1	Scala PR-850	Leg	(1) 1/2" Coax	Red Wolf
155.0	155.0	6	Kathrein 800 10504	Sector Frame	(12) 1 5/8" Coax (6) 3/8" Coax	Metro PCS
		6	Kathrein 860 10025			
123.0	123.0	1	8' Omni	Side Arm	(1) 7/8" Coax (1) 0.28" RG-6	Weblink Wireless
82.0	82.0	1	4' Dish w/ Radome	Leg	(1) EW52 (1) 1/2" Coax	Ct State Police Dept.
75.0	75.0	1	2' x 4' Rectangular Grid Dish	Leg	(1) 7/8" Coax	Unknown
61.0	61.0	1	4' Std. Dish	Leg	-	

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
No loading to be removed.						

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
225.0	225.0	3	Ericsson AIR 21, 1.3M, B4A B2P	Sector Frame	(12) 1 5/8" Coax (1) 1 5/8" Hybriflex	T-Mobile
		3	Ericsson AIR 21, 1.3M, B2A B4P			
		3	Ericsson KRY 112 144/1			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Double stack proposed coax in the place of the existing T-Mobile coax.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	55%	Pass
Diagonals	58%	Pass
Horizontals	8%	Pass
Anchor Bolts	43%	Pass
Leg Bolts	47%	Pass

Foundations

Reaction Component	Original Design Reactions	Analysis Reactions	% of Design
Uplift (Kips)	556.7	382.7	69%
Axial (Kips)	673.9	492.0	73%
Shear (Kips)	63.2	46.6	74%

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)	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
225.0	0.390	0.193	0.200

*Deflection, Twist and Sway was evaluated considering a design wind speed of 50 mph (Fastest Mile) per ANSI/TIA/EIA-222-F.



Standard Conditions

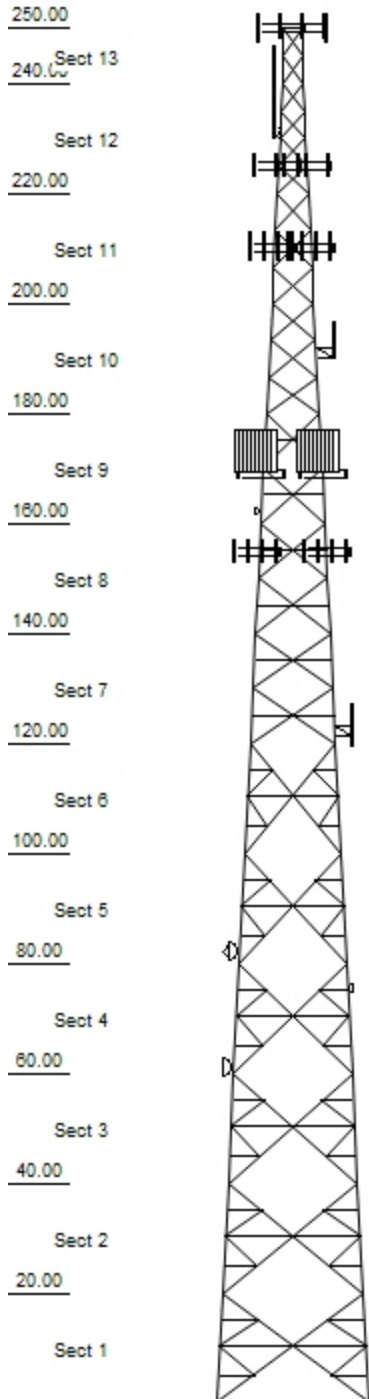
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Tower Services, Inc. and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.



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Loads: 85 mph no ice
 74 mph w / 1/2" radial ice
 50 mph no ice

Uplift 382.70 k Moment 10,188.57 Moment Ice 10,802.03 k-ft
 Vert 492.00 k Tot Down 91.15 k Tot Down Ice 139.58 k
 Horiz 46.57 k Tot Shear 74.49 k Tot Shear Ice 76.29 k

Job Information

Tower : 6260 Location : North Stonington CT, CT
 Code : TIA/EIA-222 Rev F Shape : Triangle Base Width : 28.00 ft
 Client : T- Mobile Top Width : 4.00 ft

Sections Properties

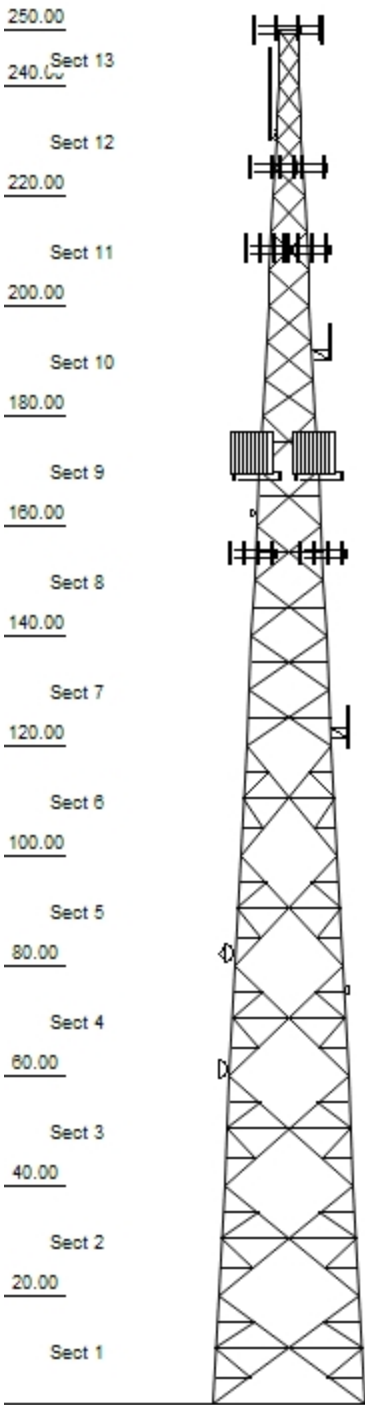
Section	Leg Members	Diagonal Members	Horizontal Members
1	SOL 50 ksi 5 3/4" SOLID	DAE 36 ksi 3X3X0.25	
2	SOL 50 ksi 5 1/2" SOLID	DAE 36 ksi 3X3X0.25	
3	SOL 50 ksi 5 1/4" SOLID	DAE 36 ksi 3X3X0.25	
4	SOL 50 ksi 5" SOLID	DAE 36 ksi 3X3X0.1875	
5	SOL 50 ksi 4 3/4" SOLID	DAE 36 ksi 3X3X0.1875	
6	SOL 50 ksi 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

Discrete Appurtenance

Elev (ft)	Type	Qty	Description
250.00	Panel	9	Decibel DB980H90E-KL
250.00	Mounting Frame	3	Round Sector Frames
250.00	Whip	2	Decibel DB806-A
232.00	Whip	1	15' FM Antenna
225.00	Panel	3	Ericsson AIR 21, 1.3M, B4A B2P
225.00	Panel	3	Ericsson AIR 21, 1.3M, B2A B4P
225.00	Panel	3	Ericsson KRY 112 144/1
225.00	Mounting Frame	3	Round Sector Frames
210.00	Mounting Frame	3	Round Sector Frames
210.00	Panel	12	Andrew SMR08-09012-0D
192.00	Straight Arm	1	Side Arm
192.00	Whip	1	Scala OGB6-928D
169.00	Panel	1	Ravcap DC6-48-60-18-8F
169.00	Panel	1	Andrew SBNH-1D6565C
169.00	Panel	1	Powerwave P65-17-XLH-RR
169.00	Panel	1	KMW AM-X-CD-14-65-00T-RET
169.00	Panel	6	Ericsson RRUS-11 1900 MHz
169.00	Mounting Frame	3	Round Sector Frames
169.00	Panel	6	Allcon 7770.00
169.00	Panel	6	Powerwave LGP21903
169.00	Panel	6	Powerwave LGP17201
162.00	Dish	1	Scala PR-850
155.00	Mounting Frame	3	Sector Frames
155.00	Panel	6	Kathrein 800 10504
155.00	Panel	6	Kathrein 860 10025
123.00	Whip	1	8' Omni
123.00	Straight Arm	1	Side Arm
90.00	Other	1	Ice Shield
82.00	Dish	1	4' Dish w/ Radome
75.00	Dish	1	2' x 4' Rectangular Grid Dish
61.00	Dish	1	4' Std. Dish

Linear Appurtenance

Elev (ft)		Qty	Description
From	To		
0.000	250.01	1	Climbing Ladder
0.000	250.00	2	Wave Guide
0.000	250.00	1	1/2" Coax
0.000	250.00	18	1 5/8" Coax
0.000	250.00	4	1 5/8" Coax
0.000	232.00	1	1 5/8" Coax
0.000	225.00	1	Wave Guide
0.000	225.00	1	1 5/8" Hybriflex
0.000	225.00	12	1 5/8" Coax



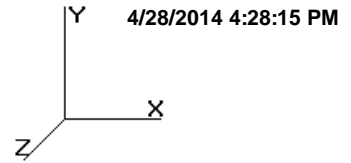
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Job Information			
Tower : 6260	Location : North Stonington CT, CT		
Code : TIA/EIA-222 Rev F	Shape : Triangle	Base Width : 28.00 ft	
Client : T- Mobile		Top Width : 4.00 ft	

0.000	210.00	1	Wave Guide
0.000	210.00	12	1 5/8" Coax
0.000	192.00	1	7/8" Coax
0.000	192.00	3	1/2" Coax
0.000	169.00	1	Wave Guide
0.000	169.00	2	19.7 mm Cable
0.000	169.00	1	10 mm Cable
0.000	169.00	12	1 5/8" Coax
0.000	162.00	1	1/2" Coax
0.000	155.00	1	Wave Guide
0.000	155.00	6	3/8" Coax
0.000	155.00	12	1 5/8" Coax
0.000	123.00	1	7/8" Coax
0.000	123.00	1	0.28" RG-6
0.000	82.000	1	EW52
0.000	82.000	1	1/2" Coax
0.000	75.000	1	7/8" Coax

Uplift 382.70 k Moment 10,188.57 Moment Ice 10,802.03 k-ft
 Vert 492.00 k Tot Down 91.15 k Tot Down Ice 139.58 k
 Horiz 46.57 k Tot Shear 74.49 k Tot Shear Ice 76.29 k

Site Number: 6260
 Location: North Stonington CT, CT



Code: TIA/EIA-222 Rev F

Gh : 1.10

Section Forces

LoadCase Normal No Ice 85.00 mph Wind Normal To Face with No Ice

Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

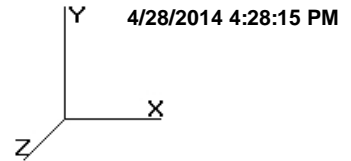
Sect Seq	Height (ft)	Wind qz (psf)	Total			Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face	
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Total Weight (lb)					Weight Ice (lb)
13	245.0	32.80	7.61	13.23	0.00	0.52	1.87	1.00	1.00	0.71	16.98	0.00	0.00	883.8	0.0	1,147.49	0.00	1,147.49	2
12	230.0	32.21	14.70	27.31	0.00	0.42	2.03	1.00	1.00	0.66	32.73	0.83	0.00	2,010.9	0.0	2,347.18	35.05	2,382.23	2
11	210.0	31.38	20.08	50.45	0.00	0.50	1.90	1.00	1.00	0.70	55.37	3.30	0.00	3,490.6	0.0	3,620.07	136.62	3,756.69	2
10	190.0	30.50	26.34	73.81	0.00	0.56	1.84	1.00	1.00	0.73	80.07	3.30	0.00	4,434.0	0.0	4,932.61	132.77	5,065.38	2
9	170.0	29.55	30.64	75.07	0.00	0.48	1.93	1.00	1.00	0.69	82.27	3.30	0.00	5,041.8	0.0	5,147.97	128.62	5,276.59	2
8	150.0	28.51	25.47	82.21	0.00	0.41	2.04	1.00	1.00	0.66	79.51	3.30	0.00	6,040.9	0.0	5,074.96	124.10	5,199.05	1
7	130.0	27.37	28.89	83.31	0.00	0.37	2.12	1.00	1.00	0.64	82.32	3.30	0.00	6,669.1	0.0	5,244.23	119.13	5,363.36	1
6	110.0	26.09	31.88	85.69	0.00	0.35	2.18	1.00	1.00	0.63	85.95	3.30	0.00	7,077.4	0.0	5,377.10	113.57	5,490.67	1
5	90.00	24.64	35.58	86.53	0.00	0.32	2.24	1.00	1.00	0.62	89.46	3.30	0.00	7,714.9	0.0	5,428.85	107.24	5,536.10	1
4	70.00	22.93	38.41	88.72	0.00	0.30	2.29	1.00	1.00	0.62	93.13	3.30	0.00	8,306.8	0.0	5,372.62	99.81	5,472.44	1
3	50.00	20.83	39.70	90.01	0.00	0.28	2.35	1.00	1.00	0.61	94.66	3.30	0.00	10,302.9	0.0	5,082.08	90.67	5,172.75	1
2	30.00	18.50	38.19	90.85	0.00	0.26	2.41	1.00	1.00	0.60	93.06	3.30	0.00	10,266.5	0.0	4,566.66	80.52	4,647.18	1
1	10.00	18.50	42.60	91.68	0.00	0.25	2.44	1.00	1.00	0.60	97.75	3.30	0.00	11,137.7	0.0	4,852.51	80.52	4,933.03	1
														83,377.4	0.0			59,442.95	

LoadCase 60 deg No Ice 85.00 mph Wind at 60 deg From Face with No Ice

Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

Sect Seq	Height (ft)	Wind qz (psf)	Total			Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face	
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Total Weight (lb)					Weight Ice (lb)
13	245.0	32.80	7.61	13.23	0.00	0.52	1.87	0.80	1.00	0.71	15.46	0.00	0.00	883.8	0.0	1,044.69	0.00	1,044.69	2
12	230.0	32.21	14.70	27.31	0.00	0.42	2.03	0.80	1.00	0.66	29.79	0.83	0.00	2,010.9	0.0	2,136.32	35.05	2,171.38	2
11	210.0	31.38	20.08	50.45	0.00	0.50	1.90	0.80	1.00	0.70	51.35	3.30	0.00	3,490.6	0.0	3,357.49	136.62	3,494.11	2
10	190.0	30.50	26.34	73.81	0.00	0.56	1.84	0.80	1.00	0.73	74.80	3.30	0.00	4,434.0	0.0	4,608.05	132.77	4,740.82	2
9	170.0	29.55	30.64	75.07	0.00	0.48	1.93	0.80	1.00	0.69	76.14	3.30	0.00	5,041.8	0.0	4,764.52	128.62	4,893.13	2
8	150.0	28.51	25.47	82.21	0.00	0.41	2.04	0.80	1.00	0.66	74.42	3.30	0.00	6,040.9	0.0	4,749.88	124.10	4,873.98	1
7	130.0	27.37	28.89	83.31	0.00	0.37	2.12	0.80	1.00	0.64	76.54	3.30	0.00	6,669.1	0.0	4,876.18	119.13	4,995.31	1
6	110.0	26.09	31.88	85.69	0.00	0.35	2.18	0.80	1.00	0.63	79.57	3.30	0.00	7,077.4	0.0	4,978.20	113.57	5,091.78	1
5	90.00	24.64	35.58	86.53	0.00	0.32	2.24	0.80	1.00	0.62	82.34	3.30	0.00	7,714.9	0.0	4,996.98	107.24	5,104.23	1
4	70.00	22.93	38.41	88.72	0.00	0.30	2.29	0.80	1.00	0.62	85.44	3.30	0.00	8,306.8	0.0	4,929.46	99.81	5,029.27	1
3	50.00	20.83	39.70	90.01	0.00	0.28	2.35	0.80	1.00	0.61	86.72	3.30	0.00	10,302.9	0.0	4,655.80	90.67	4,746.46	1
2	30.00	18.50	38.19	90.85	0.00	0.26	2.41	0.80	1.00	0.60	85.42	3.30	0.00	10,266.5	0.0	4,191.83	80.52	4,272.34	1
1	10.00	18.50	42.60	91.68	0.00	0.25	2.44	0.80	1.00	0.60	89.23	3.30	0.00	11,137.7	0.0	4,429.55	80.52	4,510.07	1
														83,377.4	0.0			54,967.57	

Site Number: 6260
 Location: North Stonington CT, CT



Code: TIA/EIA-222 Rev F

Gh : 1.10

Section Forces

LoadCase 90 deg No Ice

85.00 mph Wind at 90 deg From Face with No Ice

Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
			Flat Area (sqft)	Round Area (sqft)															
13	245.0	32.80	7.61	13.23	0.00	0.52	1.87	0.85	1.00	0.71	15.84	0.00	0.00	883.8	0.0	1,070.39	0.00	1,070.39	2
12	230.0	32.21	14.70	27.31	0.00	0.42	2.03	0.85	1.00	0.66	30.52	0.83	0.00	2,010.9	0.0	2,189.04	35.05	2,224.09	2
11	210.0	31.38	20.08	50.45	0.00	0.50	1.90	0.85	1.00	0.70	52.36	3.30	0.00	3,490.6	0.0	3,423.14	136.62	3,559.76	2
10	190.0	30.50	26.34	73.81	0.00	0.56	1.84	0.85	1.00	0.73	76.12	3.30	0.00	4,434.0	0.0	4,689.19	132.77	4,821.96	2
9	170.0	29.55	30.64	75.07	0.00	0.48	1.93	0.85	1.00	0.69	77.67	3.30	0.00	5,041.8	0.0	4,860.38	128.62	4,989.00	2
8	150.0	28.51	25.47	82.21	0.00	0.41	2.04	0.85	1.00	0.66	75.69	3.30	0.00	6,040.9	0.0	4,831.15	124.10	4,955.25	1
7	130.0	27.37	28.89	83.31	0.00	0.37	2.12	0.85	1.00	0.64	77.98	3.30	0.00	6,669.1	0.0	4,968.19	119.13	5,087.32	1
6	110.0	26.09	31.88	85.69	0.00	0.35	2.18	0.85	1.00	0.63	81.17	3.30	0.00	7,077.4	0.0	5,077.93	113.57	5,191.50	1
5	90.00	24.64	35.58	86.53	0.00	0.32	2.24	0.85	1.00	0.62	84.12	3.30	0.00	7,714.9	0.0	5,104.95	107.24	5,212.19	1
4	70.00	22.93	38.41	88.72	0.00	0.30	2.29	0.85	1.00	0.62	87.36	3.30	0.00	8,306.8	0.0	5,040.25	99.81	5,140.07	1
3	50.00	20.83	39.70	90.01	0.00	0.28	2.35	0.85	1.00	0.61	88.70	3.30	0.00	10,302.9	0.0	4,762.37	90.67	4,853.04	1
2	30.00	18.50	38.19	90.85	0.00	0.26	2.41	0.85	1.00	0.60	87.33	3.30	0.00	10,266.5	0.0	4,285.54	80.52	4,366.05	1
1	10.00	18.50	42.60	91.68	0.00	0.25	2.44	0.85	1.00	0.60	91.36	3.30	0.00	11,137.7	0.0	4,535.29	80.52	4,615.81	1
														83,377.4	0.0			56,086.42	

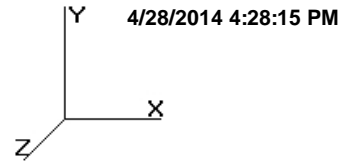
LoadCase Normal Ice

73.61 mph Wind Normal To Face with Ice

Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
			Flat Area (sqft)	Round Area (sqft)															
13	245.0	24.60	7.61	24.03	10.80	0.79	1.81	1.00	1.00	0.89	28.98	0.00	0.00	1,501.6	617.8	1,417.82	0.00	1,417.82	2
12	230.0	24.16	14.70	48.71	21.39	0.63	1.79	1.00	1.00	0.78	52.45	0.83	0.42	3,374.2	1,363.3	2,488.68	39.57	2,528.25	2
11	210.0	23.54	20.08	82.79	32.34	0.73	1.78	1.00	1.00	0.85	90.07	3.30	1.67	5,579.4	2,088.8	4,153.50	154.21	4,307.71	2
10	190.0	22.87	26.34	120.75	46.94	0.82	1.83	1.00	1.00	0.91	136.30	3.30	1.67	6,933.3	2,499.3	6,270.48	149.86	6,420.34	2
9	170.0	22.16	30.64	123.37	48.30	0.70	1.78	1.00	1.00	0.82	131.79	3.30	1.67	7,908.3	2,866.4	5,701.14	145.17	5,846.31	2
8	150.0	21.38	25.47	134.35	52.14	0.61	1.80	1.00	1.00	0.76	127.93	3.30	1.67	9,753.2	3,712.3	5,398.71	140.07	5,538.79	1
7	130.0	20.52	28.89	136.25	52.93	0.55	1.84	1.00	1.00	0.72	127.60	3.30	1.67	10,646.4	3,977.4	5,305.60	134.46	5,440.06	1
6	110.0	19.57	31.88	138.41	52.71	0.50	1.90	1.00	1.00	0.70	128.48	3.30	1.67	11,137.7	4,060.3	5,247.50	128.19	5,375.69	1
5	90.00	18.48	35.58	139.46	52.94	0.46	1.96	1.00	1.00	0.68	130.17	3.30	1.67	11,908.6	4,193.7	5,172.38	121.05	5,293.43	1
4	70.00	17.20	38.41	143.15	54.42	0.43	2.00	1.00	1.00	0.67	133.64	3.30	1.67	12,662.7	4,355.8	5,061.72	112.66	5,174.39	1
3	50.00	15.62	39.70	145.10	55.09	0.40	2.06	1.00	1.00	0.65	134.35	3.30	1.67	15,296.0	4,993.1	4,753.36	102.34	4,855.69	1
2	30.00	13.87	38.19	146.19	55.34	0.37	2.13	1.00	1.00	0.64	131.66	3.30	1.67	14,943.0	4,676.5	4,274.47	90.88	4,365.35	1
1	10.00	13.87	42.60	147.29	55.61	0.35	2.17	1.00	1.00	0.63	135.85	3.30	1.67	16,019.0	4,881.3	4,490.17	90.88	4,581.05	1
														127,663.5	44,286.1			61,144.88	

Site Number: 6260
 Location: North Stonington CT, CT



Code: TIA/EIA-222 Rev F

Gh : 1.10

Section Forces

LoadCase 60 deg Ice

73.61 mph Wind at 60 deg From Face with Ice

Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice		Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)	Total Weight (lb)								Weight Ice (lb)					
13	245.0	24.60	7.61	24.03	10.80	0.79	1.81	0.80	1.00	0.89	27.46	0.00	0.00	1,501.6	617.8	1,343.38	0.00	1,343.38	2
12	230.0	24.16	14.70	48.71	21.39	0.63	1.79	0.80	1.00	0.78	49.51	0.83	0.42	3,374.2	1,363.3	2,349.18	39.57	2,388.75	2
11	210.0	23.54	20.08	82.79	32.34	0.73	1.78	0.80	1.00	0.85	86.06	3.30	1.67	5,579.4	2,088.8	3,968.31	154.21	4,122.52	2
10	190.0	22.87	26.34	120.75	46.94	0.82	1.83	0.80	1.00	0.91	131.03	3.30	1.67	6,933.3	2,499.3	6,028.11	149.86	6,177.97	2
9	170.0	22.16	30.64	123.37	48.30	0.70	1.78	0.80	1.00	0.82	125.66	3.30	1.67	7,908.3	2,866.4	5,436.05	145.17	5,581.22	2
8	150.0	21.38	25.47	134.35	52.14	0.61	1.80	0.80	1.00	0.76	122.84	3.30	1.67	9,753.2	3,712.3	5,183.78	140.07	5,323.85	1
7	130.0	20.52	28.89	136.25	52.93	0.55	1.84	0.80	1.00	0.72	121.82	3.30	1.67	10,646.4	3,977.4	5,065.39	134.46	5,199.85	1
6	110.0	19.57	31.88	138.41	52.71	0.50	1.90	0.80	1.00	0.70	122.10	3.30	1.67	11,137.7	4,060.3	4,987.07	128.19	5,115.27	1
5	90.00	18.48	35.58	139.46	52.94	0.46	1.96	0.80	1.00	0.68	123.05	3.30	1.67	11,908.6	4,193.7	4,889.60	121.05	5,010.65	1
4	70.00	17.20	38.41	143.15	54.42	0.43	2.00	0.80	1.00	0.67	125.96	3.30	1.67	12,662.7	4,355.8	4,770.79	112.66	4,883.45	1
3	50.00	15.62	39.70	145.10	55.09	0.40	2.06	0.80	1.00	0.65	126.41	3.30	1.67	15,296.0	4,993.1	4,472.44	102.34	4,574.78	1
2	30.00	13.87	38.19	146.19	55.34	0.37	2.13	0.80	1.00	0.64	124.02	3.30	1.67	14,943.0	4,676.5	4,026.48	90.88	4,117.36	1
1	10.00	13.87	42.60	147.29	55.61	0.35	2.17	0.80	1.00	0.63	127.32	3.30	1.67	16,019.0	4,881.3	4,208.54	90.88	4,299.42	1
														127,663.5	44,286.1			58,138.45	

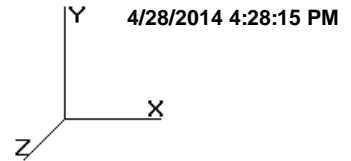
LoadCase 90 deg Ice

73.61 mph Wind at 90 deg From Face with Ice

Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz (psf)	Total		Ice		Sol Ratio	Cf	Df	Dr	Rr	Eff Area (sqft)	Linear Area (sqft)	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)	Total Weight (lb)								Weight Ice (lb)					
13	245.0	24.60	7.61	24.03	10.80	0.79	1.81	0.85	1.00	0.89	27.84	0.00	0.00	1,501.6	617.8	1,361.99	0.00	1,361.99	2
12	230.0	24.16	14.70	48.71	21.39	0.63	1.79	0.85	1.00	0.78	50.25	0.83	0.42	3,374.2	1,363.3	2,384.06	39.57	2,423.62	2
11	210.0	23.54	20.08	82.79	32.34	0.73	1.78	0.85	1.00	0.85	87.06	3.30	1.67	5,579.4	2,088.8	4,014.61	154.21	4,168.81	2
10	190.0	22.87	26.34	120.75	46.94	0.82	1.83	0.85	1.00	0.91	132.34	3.30	1.67	6,933.3	2,499.3	6,088.70	149.86	6,238.56	2
9	170.0	22.16	30.64	123.37	48.30	0.70	1.78	0.85	1.00	0.82	127.19	3.30	1.67	7,908.3	2,866.4	5,502.32	145.17	5,647.49	2
8	150.0	21.38	25.47	134.35	52.14	0.61	1.80	0.85	1.00	0.76	124.11	3.30	1.67	9,753.2	3,712.3	5,237.51	140.07	5,377.59	1
7	130.0	20.52	28.89	136.25	52.93	0.55	1.84	0.85	1.00	0.72	123.27	3.30	1.67	10,646.4	3,977.4	5,125.44	134.46	5,259.90	1
6	110.0	19.57	31.88	138.41	52.71	0.50	1.90	0.85	1.00	0.70	123.70	3.30	1.67	11,137.7	4,060.3	5,052.18	128.19	5,180.37	1
5	90.00	18.48	35.58	139.46	52.94	0.46	1.96	0.85	1.00	0.68	124.83	3.30	1.67	11,908.6	4,193.7	4,960.30	121.05	5,081.35	1
4	70.00	17.20	38.41	143.15	54.42	0.43	2.00	0.85	1.00	0.67	127.88	3.30	1.67	12,662.7	4,355.8	4,843.52	112.66	4,956.18	1
3	50.00	15.62	39.70	145.10	55.09	0.40	2.06	0.85	1.00	0.65	128.39	3.30	1.67	15,296.0	4,993.1	4,542.67	102.34	4,645.01	1
2	30.00	13.87	38.19	146.19	55.34	0.37	2.13	0.85	1.00	0.64	125.93	3.30	1.67	14,943.0	4,676.5	4,088.47	90.88	4,179.35	1
1	10.00	13.87	42.60	147.29	55.61	0.35	2.17	0.85	1.00	0.63	129.45	3.30	1.67	16,019.0	4,881.3	4,278.94	90.88	4,369.82	1
														127,663.5	44,286.1			58,890.06	

Site Number: 6260
 Location: North Stonington CT, CT



Code: TIA/EIA-222 Rev F

Gh : 1.10

Section Forces

LoadCase Normal

50.00 mph Wind Normal To Face with No Ice

Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz (psf)	Total	Total	Ice		Sol				Eff	Linear	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face	
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Area (sqft)	Area (sqft)	Area (sqft)	Total Weight (lb)					Weight Ice (lb)
13	245.0	11.35	7.61	13.23	0.00	0.52	1.87	1.00	1.00	0.71	16.98	0.00	0.00	883.8	0.0	397.06	0.00	397.06	2
12	230.0	11.15	14.70	27.31	0.00	0.42	2.03	1.00	1.00	0.66	32.73	0.83	0.00	2,010.9	0.0	812.17	12.13	824.30	2
11	210.0	10.86	20.08	50.45	0.00	0.50	1.90	1.00	1.00	0.70	55.37	3.30	0.00	3,490.6	0.0	1,252.62	47.27	1,299.89	2
10	190.0	10.55	26.34	73.81	0.00	0.56	1.84	1.00	1.00	0.73	80.07	3.30	0.00	4,434.0	0.0	1,706.78	45.94	1,752.73	2
9	170.0	10.22	30.64	75.07	0.00	0.48	1.93	1.00	1.00	0.69	82.27	3.30	0.00	5,041.8	0.0	1,781.31	44.50	1,825.81	2
8	150.0	9.86	25.47	82.21	0.00	0.41	2.04	1.00	1.00	0.66	79.51	3.30	0.00	6,040.9	0.0	1,756.04	42.94	1,798.98	1
7	130.0	9.47	28.89	83.31	0.00	0.37	2.12	1.00	1.00	0.64	82.32	3.30	0.00	6,669.1	0.0	1,814.61	41.22	1,855.83	1
6	110.0	9.03	31.88	85.69	0.00	0.35	2.18	1.00	1.00	0.63	85.95	3.30	0.00	7,077.4	0.0	1,860.59	39.30	1,899.89	1
5	90.00	8.52	35.58	86.53	0.00	0.32	2.24	1.00	1.00	0.62	89.46	3.30	0.00	7,714.9	0.0	1,878.50	37.11	1,915.60	1
4	70.00	7.93	38.41	88.72	0.00	0.30	2.29	1.00	1.00	0.62	93.13	3.30	0.00	8,306.8	0.0	1,859.04	34.54	1,893.58	1
3	50.00	7.21	39.70	90.01	0.00	0.28	2.35	1.00	1.00	0.61	94.66	3.30	0.00	10,302.9	0.0	1,758.51	31.37	1,789.88	1
2	30.00	6.40	38.19	90.85	0.00	0.26	2.41	1.00	1.00	0.60	93.06	3.30	0.00	10,266.5	0.0	1,580.16	27.86	1,608.02	1
1	10.00	6.40	42.60	91.68	0.00	0.25	2.44	1.00	1.00	0.60	97.75	3.30	0.00	11,137.7	0.0	1,679.07	27.86	1,706.93	1
														83,377.4	0.0			20,568.50	

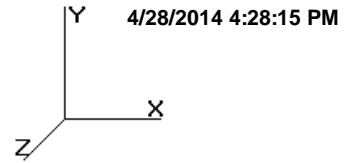
LoadCase 60 deg

50.00 mph Wind at 60 deg From Face with No Ice

Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz (psf)	Total	Total	Ice		Sol				Eff	Linear	Ice		Struct Force (lb)	Linear Force (lb)	Total Force (lb)	Eff Face	
			Flat Area (sqft)	Round Area (sqft)	Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Rr	Area (sqft)	Area (sqft)	Area (sqft)	Total Weight (lb)					Weight Ice (lb)
13	245.0	11.35	7.61	13.23	0.00	0.52	1.87	0.80	1.00	0.71	15.46	0.00	0.00	883.8	0.0	361.48	0.00	361.48	2
12	230.0	11.15	14.70	27.31	0.00	0.42	2.03	0.80	1.00	0.66	29.79	0.83	0.00	2,010.9	0.0	739.21	12.13	751.34	2
11	210.0	10.86	20.08	50.45	0.00	0.50	1.90	0.80	1.00	0.70	51.35	3.30	0.00	3,490.6	0.0	1,161.76	47.27	1,209.03	2
10	190.0	10.55	26.34	73.81	0.00	0.56	1.84	0.80	1.00	0.73	74.80	3.30	0.00	4,434.0	0.0	1,594.48	45.94	1,640.42	2
9	170.0	10.22	30.64	75.07	0.00	0.48	1.93	0.80	1.00	0.69	76.14	3.30	0.00	5,041.8	0.0	1,648.62	44.50	1,693.13	2
8	150.0	9.86	25.47	82.21	0.00	0.41	2.04	0.80	1.00	0.66	74.42	3.30	0.00	6,040.9	0.0	1,643.56	42.94	1,686.50	1
7	130.0	9.47	28.89	83.31	0.00	0.37	2.12	0.80	1.00	0.64	76.54	3.30	0.00	6,669.1	0.0	1,687.26	41.22	1,728.48	1
6	110.0	9.03	31.88	85.69	0.00	0.35	2.18	0.80	1.00	0.63	79.57	3.30	0.00	7,077.4	0.0	1,722.56	39.30	1,761.86	1
5	90.00	8.52	35.58	86.53	0.00	0.32	2.24	0.80	1.00	0.62	82.34	3.30	0.00	7,714.9	0.0	1,729.06	37.11	1,766.17	1
4	70.00	7.93	38.41	88.72	0.00	0.30	2.29	0.80	1.00	0.62	85.44	3.30	0.00	8,306.8	0.0	1,705.70	34.54	1,740.23	1
3	50.00	7.21	39.70	90.01	0.00	0.28	2.35	0.80	1.00	0.61	86.72	3.30	0.00	10,302.9	0.0	1,611.00	31.37	1,642.38	1
2	30.00	6.40	38.19	90.85	0.00	0.26	2.41	0.80	1.00	0.60	85.42	3.30	0.00	10,266.5	0.0	1,450.46	27.86	1,478.32	1
1	10.00	6.40	42.60	91.68	0.00	0.25	2.44	0.80	1.00	0.60	89.23	3.30	0.00	11,137.7	0.0	1,532.72	27.86	1,560.58	1
														83,377.4	0.0			19,019.92	

Site Number: 6260
 Location: North Stonington CT, CT



Code: TIA/EIA-222 Rev F

Gh : 1.10

Section Forces

LoadCase 90 deg

50.00 mph Wind at 90 deg From Face with No Ice

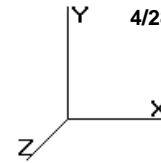
Allow Stress Inc: 1.333
 Dead LF: 1.000
 Wind LF: 1.000

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat	Total Round	Ice Round	Sol Ratio	Cf	Df	Dr	Rr	Eff Area	Linear Area	Ice Linear	Total Weight	Weight Ice	Struct Force	Linear Force	Total Force	Eff Face
			(sqft)	(sqft)	(sqft)						(sqft)	(sqft)	(sqft)	(sqft)	(sqft)	(lb)	(lb)	(lb)	(lb)
13	245.0	11.35	7.61	13.23	0.00	0.52	1.87	0.85	1.00	0.71	15.84	0.00	0.00	883.8	0.0	370.38	0.00	370.38	2
12	230.0	11.15	14.70	27.31	0.00	0.42	2.03	0.85	1.00	0.66	30.52	0.83	0.00	2,010.9	0.0	757.45	12.13	769.58	2
11	210.0	10.86	20.08	50.45	0.00	0.50	1.90	0.85	1.00	0.70	52.36	3.30	0.00	3,490.6	0.0	1,184.48	47.27	1,231.75	2
10	190.0	10.55	26.34	73.81	0.00	0.56	1.84	0.85	1.00	0.73	76.12	3.30	0.00	4,434.0	0.0	1,622.56	45.94	1,668.50	2
9	170.0	10.22	30.64	75.07	0.00	0.48	1.93	0.85	1.00	0.69	77.67	3.30	0.00	5,041.8	0.0	1,681.79	44.50	1,726.30	2
8	150.0	9.86	25.47	82.21	0.00	0.41	2.04	0.85	1.00	0.66	75.69	3.30	0.00	6,040.9	0.0	1,671.68	42.94	1,714.62	1
7	130.0	9.47	28.89	83.31	0.00	0.37	2.12	0.85	1.00	0.64	77.98	3.30	0.00	6,669.1	0.0	1,719.10	41.22	1,760.32	1
6	110.0	9.03	31.88	85.69	0.00	0.35	2.18	0.85	1.00	0.63	81.17	3.30	0.00	7,077.4	0.0	1,757.07	39.30	1,796.37	1
5	90.00	8.52	35.58	86.53	0.00	0.32	2.24	0.85	1.00	0.62	84.12	3.30	0.00	7,714.9	0.0	1,766.42	37.11	1,803.53	1
4	70.00	7.93	38.41	88.72	0.00	0.30	2.29	0.85	1.00	0.62	87.36	3.30	0.00	8,306.8	0.0	1,744.03	34.54	1,778.57	1
3	50.00	7.21	39.70	90.01	0.00	0.28	2.35	0.85	1.00	0.61	88.70	3.30	0.00	10,302.9	0.0	1,647.88	31.37	1,679.25	1
2	30.00	6.40	38.19	90.85	0.00	0.26	2.41	0.85	1.00	0.60	87.33	3.30	0.00	10,266.5	0.0	1,482.88	27.86	1,510.74	1
1	10.00	6.40	42.60	91.68	0.00	0.25	2.44	0.85	1.00	0.60	91.36	3.30	0.00	11,137.7	0.0	1,569.31	27.86	1,597.17	1
														83,377.4	0.0			19,407.06	

Site Number: 6260
Location: North Stonington CT, CT

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Code: TIA/EIA-222 Rev F



Tower Loading

Discrete Appurtenance Properties

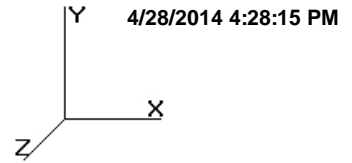
Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice CaAa (sf)	CaAa Factor	Weight (lb)	Ice CaAa (sf)	CaAa Factor	Distance From Face (ft)	X Angle (deg)	Vert Ecc (ft)
250.0	Decibel DB980H90E-KL	9	9.00	3.800	0.79	29.00	4.500	0.79	0.000	0.00	0.000
250.0	Round Sector Frames	3	300.00	14.400	0.75	415.00	19.200	0.75	0.000	0.00	0.000
250.0	Decibel DB806-A	2	16.00	1.030	1.00	24.10	1.460	1.00	0.000	0.00	0.000
232.0	15' FM Antenna	1	250.00	12.760	1.00	524.00	55.000	1.00	0.000	0.00	6.500
225.0	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.580	0.83	132.60	7.200	0.83	0.000	0.00	0.000
225.0	Ericsson AIR 21, 1.3M, B2A	3	83.00	6.530	0.83	132.60	7.200	0.83	0.000	0.00	0.000
225.0	Ericsson KRY 112 144/1	3	11.00	0.410	0.50	14.10	0.550	0.50	0.000	0.00	0.000
225.0	Round Sector Frames	3	300.00	14.400	0.75	415.00	19.200	0.75	0.000	0.00	0.000
210.0	Round Sector Frames	3	300.00	14.400	0.75	415.00	19.200	0.75	0.000	0.00	0.000
210.0	Andrew SMR08-09012-0D	12	26.00	6.980	0.78	64.81	7.760	0.78	0.000	0.00	0.000
192.0	Side Arm	1	150.00	5.200	1.00	175.00	5.900	1.00	0.000	0.00	0.000
192.0	Scala OGB6-928D	1	9.10	0.970	1.00	30.07	2.940	1.00	0.000	0.00	1.000
169.0	Raycap DC6-48-60-18-8F	1	20.00	1.260	0.50	35.10	1.460	0.50	0.000	0.00	6.000
169.0	Andrew SBNH-1D6565C	1	60.80	11.440	0.84	126.70	12.370	0.84	0.000	0.00	6.000
169.0	Powerwave P65-17-XLH-RR	1	59.00	11.460	0.80	121.00	12.390	0.80	0.000	0.00	6.000
169.0	KMW AM-X-CD-14-65-00T-	1	36.40	5.500	0.76	68.30	6.100	0.76	0.000	0.00	6.000
169.0	Ericsson RRUS-11 1900 MHz	6	44.00	2.940	0.50	63.30	3.290	0.50	0.000	0.00	6.000
169.0	Round Sector Frames	3	300.00	14.400	0.75	415.00	19.200	0.75	0.000	0.00	0.000
169.0	Allgon 7770.00	6	35.00	5.880	0.75	68.00	6.430	0.75	0.000	0.00	6.000
169.0	Powerwave LGP21903	6	5.50	0.270	0.50	7.90	0.380	0.50	0.000	0.00	6.000
169.0	Powerwave LGP17201	6	31.00	1.950	0.50	50.00	2.180	0.50	0.000	0.00	6.000
162.0	Scala PR-850	1	38.00	10.090	1.00	108.00	21.810	1.00	0.000	0.00	0.000
155.0	Sector Frames	3	400.00	17.900	0.75	510.00	22.200	0.75	0.000	0.00	0.000
155.0	Kathrein 800 10504	6	17.60	3.350	0.78	35.70	3.870	0.78	0.000	0.00	0.000
155.0	Kathrein 860 10025	6	1.20	0.180	0.50	2.60	0.260	0.50	0.000	0.00	0.000
123.0	8' Omni	1	40.00	2.400	1.00	62.00	3.230	1.00	0.000	0.00	0.000
123.0	Side Arm	1	150.00	5.200	1.00	175.00	5.900	1.00	0.000	0.00	0.000
90.00	Ice Shield	1	50.00	0.930	1.00	150.00	7.000	1.00	0.000	0.00	0.000
82.00	4' Dish w/ Radome	1	120.00	10.850	1.00	211.70	11.310	1.00	0.000	0.00	0.000
75.00	2' x 4' Rectangular Grid Dish	1	40.00	4.750	1.00	83.20	14.020	1.00	0.000	0.00	0.000
61.00	4' Std. Dish	1	188.00	20.910	1.00	249.10	21.790	1.00	0.000	0.00	0.000
Totals		97	7768.60			11918.99			Number of Appurtenances : 31		

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Wind	Spread On Faces	Bundling Arrangement
0.00	250.0	Climbing Ladder	1	2.00	6.90	100.00	2	Separate
0.00	250.0	1 5/8" Coax	4	1.98	0.82	100.00	3	Separate
0.00	250.0	1 5/8" Coax	18	1.98	0.82	33.30	2	Separate
0.00	250.0	1/2" Coax	1	0.63	0.15	100.00	3	Separate
0.00	250.0	Wave Guide	2	2.00	6.00	100.00	2,3	Separate
0.00	232.0	1 5/8" Coax	1	1.98	0.82	100.00	1	Separate
0.00	225.0	1 5/8" Coax	12	1.98	0.82	50.00	1	Separate
0.00	225.0	1 5/8" Hybriflex	1	1.98	1.30	100.00	Lin App	Separate
0.00	225.0	Wave Guide	1	2.00	6.00	100.00	1	Separate
0.00	210.0	1 5/8" Coax	12	1.98	0.82	100.00	2	Separate

Site Number: 6260
 Location: North Stonington CT, CT

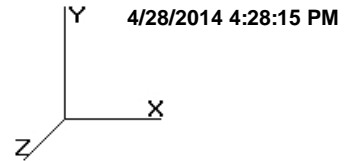
Code: TIA/EIA-222 Rev F



Tower Loading

0.00	210.0	Wave Guide	1	2.00	6.00	100.00	2	Separate
0.00	192.0	1/2" Coax	3	0.63	0.15	100.00	2	Separate
0.00	192.0	7/8" Coax	1	1.09	0.33	100.00	1	Separate
0.00	169.0	1 5/8" Coax	12	1.98	0.82	100.00	1	Separate
0.00	169.0	10 mm Cable	1	0.39	0.07	100.00	1	Separate
0.00	169.0	19.7 mm Cable	2	0.78	0.59	100.00	1	Separate
0.00	169.0	Wave Guide	1	2.00	6.00	100.00	1	Separate
0.00	162.0	1/2" Coax	1	0.65	0.16	100.00	1	Separate
0.00	155.0	1 5/8" Coax	12	1.98	0.82	50.00	3	Separate
0.00	155.0	3/8" Coax	6	0.44	0.08	100.00	3	Separate
0.00	155.0	Wave Guide	1	2.00	6.00	100.00	3	Separate
0.00	123.0	0.28" RG-6	1	0.28	0.08	100.00	3	Separate
0.00	123.0	7/8" Coax	1	1.09	0.33	100.00	1	Separate
0.00	82.00	1/2" Coax	1	0.63	0.15	100.00	3	Separate
0.00	82.00	EW52	1	2.25	0.59	100.00	3	Separate
0.00	75.00	7/8" Coax	1	1.09	0.33	100.00	1	Separate

Site Number: 6260
 Location: North Stonington CT, CT



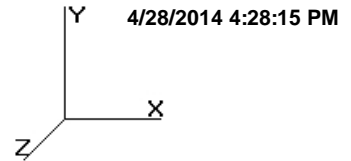
Code: TIA/EIA-222 Rev F

Force/Stress Summary

Section: 1		Base	Bot Elev (ft): 0.00					Height (ft): 20.000							
			Force	Len	Bracing %			Fa	Member		Shear	Bear	Use		
			(kip)	(ft)	X	Y	Z	(ksi)	Cap	Num	Cap	Cap	%		
			Load Case				KL/R		(kip)	Bolts	Holes	(kip)	(kip)		
													Controls		
Max Compression Member															
LEG	SOL - 5 3/4" SOLID		-474.26	20.03	25	25	25	41.8	34.1	885.48	0	0	0.00	0.00	53 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		-14.99	33.60	25	50	13	145.1	9.5	27.25	4	2	39.25	58.00	55 Member Y
Max Tension Member															
			Force	Fy	Cap	Num	Num	Shear	Bear	Use					
			(kip)	(ksi)	(kip)	Bolts	Holes	Cap (kip)	Cap (kip)	%	Controls				
LEG	SOL - 5 3/4" SOLID		370.64	50	1,038.6	0	0	0.00	0.00	35	Member				
HORIZ			0.00	0	0.00	0	0	0.00	0.00	0					
DIAG	DAE - 3X3X0.25		14.71	36	73.55	4	2	39.25	47.12	37	Bolt Shear				
Max Splice Forces															
			Force	Capacity	Use	Num									
			(kip)	(kip)	%	Bolts	Bolt Type								
Top Tension			355.09	0.00	0										
Top Compression			457.60	0.00	0										
Bot Tension			387.05	907.58	43	6	2 3/4" A36								
Bot Compression			491.15	0.00	0										

Section: 2		1	Bot Elev (ft): 20.00					Height (ft): 20.000							
			Force	Len	Bracing %			Fa	Member		Shear	Bear	Use		
			(kip)	(ft)	X	Y	Z	(ksi)	Cap	Num	Cap	Cap	%		
			Load Case				KL/R		(kip)	Bolts	Holes	(kip)	(kip)		
													Controls		
Max Compression Member															
LEG	SOL - 5 1/2" SOLID		-437.79	20.03	25	25	25	43.7	33.7	801.44	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 - 3X3X0.25		-16.02	32.02	25	50	13	138.2	10.4	30.01	4	2	39.25	58.00	53 Member Y
Max Tension Member															
			Force	Fy	Cap	Num	Num	Shear	Bear	Use					
			(kip)	(ksi)	(kip)	Bolts	Holes	Cap (kip)	Cap (kip)	%	Controls				
LEG	SOL - 5 1/2" SOLID		342.31	50	950.30	0	0	0.00	0.00	36	Member				
HORIZ			0.00	0	0.00	0	0	0.00	0.00	0					
DIAG	DAE - 3X3X0.25		15.22	36	73.55	4	2	39.25	47.12	38	Bolt Shear				
Max Splice Forces															
			Force	Capacity	Use	Num									
			(kip)	(kip)	%	Bolts	Bolt Type								
Top Tension			324.19	0.00	0										
Top Compression			420.23	0.00	0										
Bot Tension			355.09	1105.81	32	6	2" A325								
Bot Compression			457.60	0.00	0										

Site Number: 6260
 Location: North Stonington CT, CT



Code: TIA/EIA-222 Rev F

Force/Stress Summary

Section: 3 2		Bot Elev (ft): 40.00		Height (ft): 20.000								Shear Bear				
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Cap (kip)	Cap (kip)	Use %	Controls	
LEG	SOL - 5 1/4" SOLID	-397.52	Normal Ice	20.03	25	25	25	45.8	33.3	721.39	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 - 3X3X0.25	-15.70	90 deg Ice	30.48	25	50	13	131.6	11.5	33.12	4	2	39.25	58.00	47	Member Y

Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls	
LEG	SOL - 5 1/4" SOLID	312.34	60 deg Ice	50	865.90	0	0	0.00	0.00	36	Member	
HORIZ		0.00		0	0.00	0	0	0.00	0.00	0		
DIAG	DAE - 3X3X0.25	15.48	90 deg Ice	36	73.55	4	2	39.25	47.12	39	Bolt Shear	

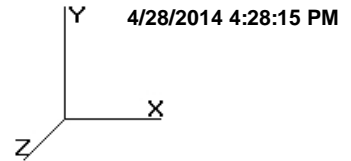
Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension		294.29	60 deg Ice	0.00	0		
Top Compression		378.69	Normal Ice	0.00	0		
Bot Tension		324.19	60 deg Ice	1105.81	29	6	2" A325
Bot Compression		420.23	Normal Ice	0.00	0		

Section: 4 3		Bot Elev (ft): 60.00		Height (ft): 20.000								Shear Bear				
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Cap (kip)	Cap (kip)	Use %	Controls	
LEG	SOL - 5" SOLID	-354.23	Normal Ice	20.03	25	25	25	48.1	32.9	645.24	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	-15.97	90 deg Ice	29.00	25	50	13	126.1	12.5	27.29	4	2	39.25	43.50	58	Member Y

Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls	
LEG	SOL - 5" SOLID	282.19	60 deg Ice	50	785.38	0	0	0.00	0.00	35	Member	
HORIZ		0.00		0	0.00	0	0	0.00	0.00	0		
DIAG	DAE - 3X3X0.1875	14.91	90 deg Ice	36	55.74	4	2	39.25	35.34	42	Bolt Bear	

Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension		262.94	60 deg Ice	0.00	0		
Top Compression		335.84	Normal Ice	0.00	0		
Bot Tension		294.29	60 deg Ice	621.98	47	6	1 1/2 A325
Bot Compression		378.69	Normal Ice	0.00	0		

Site Number: 6260
 Location: North Stonington CT, CT



Code: TIA/EIA-222 Rev F

Force/Stress Summary

Section: 5 4 Bot Elev (ft): 80.00 Height (ft): 20.000

Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 4 3/4" SOLID	-312.66	Normal Ice	20.03	25	25	25	50.6	32.3	573.09	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	-15.00	90 deg Ice	27.59	25	50	13	120.0	13.7	29.90	4	2	39.25	43.50	50 Member Y

Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 4 3/4" SOLID	249.04	60 deg Ice	50	708.82	0	0	0.00	0.00	35	Member
HORIZ		0.00		0	0.00	0	0	0.00	0.00	0	
DIAG	DAE - 3X3X0.1875	15.14	90 deg Ice	36	55.74	4	2	39.25	35.34	42	Bolt Bear

Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension		230.02	60 deg Ice	0.00	0		
Top Compression		292.63	Normal Ice	0.00	0		
Bot Tension		262.94	60 deg Ice	621.98	42	6	1 1/2 A325
Bot Compression		335.84	Normal Ice	0.00	0		

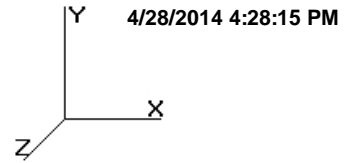
Section: 6 5 Bot Elev (ft): 100.0 Height (ft): 20.000

Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 4 1/2" SOLID	-267.34	Normal Ice	20.03	25	25	25	53.4	31.7	504.85	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	-15.87	90 deg Ice	26.25	25	50	13	114.2	14.8	32.28	4	2	39.25	43.50	49 Member Y

Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 4 1/2" SOLID	214.93	60 deg Ice	50	636.14	0	0	0.00	0.00	33	Member
HORIZ		0.00		0	0.00	0	0	0.00	0.00	0	
DIAG	DAE - 3X3X0.1875	14.51	90 deg Ice	36	55.74	4	2	39.25	35.34	41	Bolt Bear

Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension		194.24	60 deg Ice	0.00	0		
Top Compression		247.99	Normal Ice	0.00	0		
Bot Tension		230.02	60 deg Ice	621.98	37	6	1 1/2 A325
Bot Compression		292.63	Normal Ice	0.00	0		

Site Number: 6260
 Location: North Stonington CT, CT



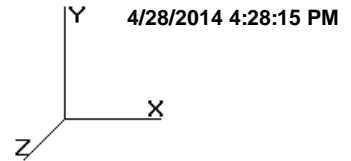
Code: TIA/EIA-222 Rev F

Force/Stress Summary

Section: 7 6		Bot Elev (ft): 120.0		Height (ft): 20.000								Shear Bear			
		Force	Len	Bracing %			Fa	Member		Num	Shear	Bear	Use		
		(kip)	(ft)	X	Y	Z	(ksi)	Cap	Num	Holes	Cap	Cap	%	Controls	
Max Compression Member		Load Case						(kip)	Bolts		(kip)	(kip)			
LEG	SOL - 4 1/4" SOLID	-234.84	10.02	50	50	50	56.6	31.1	440.61	0	0	0.00	0.00	53	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	-10.35	18.44	50	50	25	142.3	9.8	17.71	4	2	39.25	43.50	58	Member X
Max Tension Member		Load Case	Fy	Cap	Num	Num	Shear	Bear	Use						
			(ksi)	(kip)	Bolts	Holes	Cap (kip)	Cap (kip)	%						
LEG	SOL - 4 1/4" SOLID	188.63	50	567.43	0	0	0.00	0.00	33	Member					
HORIZ		0.00	0	0.00	0	0	0.00	0.00	0						
DIAG	DAE - 2.5X2.5X0.1875	10.76	36	44.72	4	2	39.25	35.34	30	Bolt Bear					
Max Splice Forces		Force	Capacity	Use	Num										
		(kip)	(kip)	%	Bolts	Bolt Type									
Top Tension		159.80	0.00	0											
Top Compression		201.42	0.00	0											
Bot Tension		194.24	522.71	37	6	1 3/8 A325									
Bot Compression		247.99	0.00	0											

Section: 8 7		Bot Elev (ft): 140.0		Height (ft): 20.000								Shear Bear			
		Force	Len	Bracing %			Fa	Member		Num	Shear	Bear	Use		
		(kip)	(ft)	X	Y	Z	(ksi)	Cap	Num	Holes	Cap	Cap	%	Controls	
Max Compression Member		Load Case						(kip)	Bolts		(kip)	(kip)			
LEG	SOL - 4" SOLID	-189.31	10.02	50	50	50	60.1	30.3	380.33	0	0	0.00	0.00	49	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	-10.22	16.80	50	50	25	129.6	11.9	21.34	4	2	39.25	43.50	47	Member X
Max Tension Member		Load Case	Fy	Cap	Num	Num	Shear	Bear	Use						
			(ksi)	(kip)	Bolts	Holes	Cap (kip)	Cap (kip)	%						
LEG	SOL - 4" SOLID	151.36	50	502.63	0	0	0.00	0.00	30	Member					
HORIZ		0.00	0	0.00	0	0	0.00	0.00	0						
DIAG	DAE - 2.5X2.5X0.1875	10.40	36	44.72	4	2	39.25	35.34	29	Bolt Bear					
Max Splice Forces		Force	Capacity	Use	Num										
		(kip)	(kip)	%	Bolts	Bolt Type									
Top Tension		122.12	0.00	0											
Top Compression		155.17	0.00	0											
Bot Tension		159.80	431.99	37	6	1 1/4 A325									
Bot Compression		201.42	0.00	0											

Site Number: 6260
 Location: North Stonington CT, CT



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Force/Stress Summary

Section: 9 8 Bot Elev (ft): 160.0 Height (ft): 20.000

Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	-143.04	Normal Ice	10.02	50	50	50	64.1	29.3	324.04	0	0	0.00	0.00	44 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	-8.90	90 deg Ice	15.24	50	50	50	132.9	11.3	19.04	2	1	19.63	29.00	46 Member Z

Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	113.71	60 deg Ice	50	441.79	0	0	0.00	0.00	25	Member
HORIZ		0.00		0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 3.5X3.5X0.25	9.02	90 deg Ice	36	44.02	2	1	19.63	23.56	45	Bolt Shear

Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension		87.50	60 deg Ice	0.00	0		
Top Compression		109.78	Normal Ice	0.00	0		
Bot Tension		122.12	60 deg Ice	349.91	35	6	1 1/8 A325
Bot Compression		155.17	Normal Ice	0.00	0		

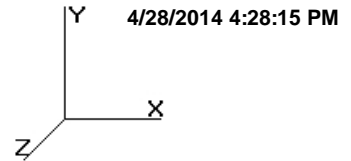
Section: 10 10 Bot Elev (ft): 180.0 Height (ft): 20.000

Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fa (ksi)	Member Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	-103.03	Normal Ice	6.68	100	100	100	85.5	23.9	263.53	0	0	0.00	0.00	39 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	-6.28	90 deg Ice	11.74	50	75	50	118.7	14.0	15.22	2	1	19.63	21.75	41 Member Z

Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 3 3/4" SOLID	83.13	60 deg Ice	50	441.79	0	0	0.00	0.00	18	Member
HORIZ		0.00		0	0.00	0	0	0.00	0.00	0	
DIAG	SAE - 3X3X0.1875	6.41	90 deg Ice	36	27.87	2	1	19.63	17.67	36	Bolt Bear

Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type
Top Tension		53.91	60 deg Ice	0.00	0		
Top Compression		70.05	Normal Ice	0.00	0		
Bot Tension		87.50	60 deg Ice	349.91	25	6	1 1/8 A325
Bot Compression		109.78	Normal Ice	0.00	0		

Site Number: 6260
 Location: North Stonington CT, CT

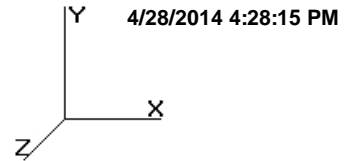


Code: TIA/EIA-222 Rev F

Force/Stress Summary

Section: 11 11		Bot Elev (ft): 200.0						Height (ft): 20.000								
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fa (ksi)	Member Cap (kip)		Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 3 1/4" SOLID	-63.01	Normal Ice	6.68	100	100	100	98.6	20.0	166.17	0	0	0.00	0.00	37	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	-5.41	90 deg Ice	10.16	50	75	50	123.2	13.1	11.81	2	1	19.63	21.75	45	Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls					
LEG	SOL - 3 1/4" SOLID	48.67	60 deg Ice	50	331.83	0	0	0.00	0.00	14	Member					
HORIZ		0.00		0	0.00	0	0	0.00	0.00	0						
DIAG	SAE - 2.5X2.5X0.1875	5.28	90 deg Ice	36	22.42	2	1	19.63	17.67	29	Bolt Bear					
Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type									
Top Tension		25.63	60 deg Ice	0.00	0											
Top Compression		36.22	Normal Ice	0.00	0											
Bot Tension		53.91	60 deg Ice	276.47	19	6	1 A325									
Bot Compression		70.05	Normal Ice	0.00	0											
Section: 12 12		Bot Elev (ft): 220.0						Height (ft): 20.000								
Max Compression Member		Force (kip)	Load Case	Len (ft)	Bracing %			Fa (ksi)	Member Cap (kip)		Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls
LEG	SOL - 2 1/4" SOLID	-32.18	Normal Ice	5.01	100	100	100	106.8	17.4	69.35	0	0	0.00	0.00	46	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	-3.44	90 deg Ice	7.621	50	75	50	133.3	11.2	6.96	2	1	10.99	17.40	49	Member Z
Max Tension Member		Force (kip)	Load Case	Fy (ksi)	Cap (kip)	Num Bolts	Num Holes	Shear Cap (kip)	Bear Cap (kip)	Use %	Controls					
LEG	SOL - 2 1/4" SOLID	22.50	60 deg Ice	50	159.04	0	0	0.00	0.00	14	Member					
HORIZ		0.00		0	0.00	0	0	0.00	0.00	0						
DIAG	SAE - 1.75X1.75X0.18	3.44	90 deg Ice	36	14.95	2	1	10.99	14.14	31	Bolt Shear					
Max Splice Forces		Force (kip)	Load Case	Capacity (kip)	Use %	Num Bolts	Bolt Type									
Top Tension		7.86	60 deg No Ice	0.00	0											
Top Compression		10.65	Normal Ice	0.00	0											
Bot Tension		25.63	60 deg Ice	110.48	23	6	5/8 A325									
Bot Compression		36.22	Normal Ice	0.00	0											

Site Number: 6260
 Location: North Stonington CT, CT

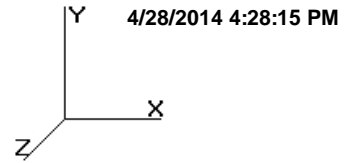


Code: TIA/EIA-222 Rev F

Force/Stress Summary

Section: 13 13		Bot Elev (ft): 240.0		Height (ft): 10.000								Shear Bear				
		Force		Len	Bracing %			Fa	Member		Num	Num	Cap	Cap	Use	
Max Compression Member		(kip)	Load Case	(ft)	X	Y	Z	KL/R	(ksi)	(kip)	Bolts	Holes	(kip)	(kip)	%	Controls
LEG	SOL - 2" SOLID	-7.64	Normal Ice	5.00	100	100	100	120.0	13.8	43.44	0	0	0.00	0.00	17	Member X
HORIZ	SAE - 2X2X0.1875	-0.64	60 deg Ice	4.000	100	100	100	121.8	13.4	9.55	1	1	9.81	10.87	6	Member Z
DIAG	SAE - 1.75X1.75X0.18	-1.85	90 deg Ice	6.403	50	75	50	114.0	14.8	9.21	2	1	10.99	17.40	20	Member Z
Max Tension Member		Force	Load Case	Fy	Cap	Num	Num	Shear	Bear	Use						
		(kip)		(ksi)	(kip)	Bolts	Holes	Cap (kip)	Cap (kip)	%	Controls					
LEG	SOL - 2" SOLID	5.60	60 deg No Ice	50	125.66	0	0	0.00	0.00	4	Member					
HORIZ	SAE - 2X2X0.1875	0.61	90 deg Ice	36	17.00	1	1	9.81	6.80	8	Bolt Bear					
DIAG	SAE - 1.75X1.75X0.18	1.91	60 deg Ice	36	14.95	2	1	10.99	14.14	17	Bolt Shear					
Max Splice Forces		Force	Load Case	Capacity	Use	Num										
		(kip)		(kip)	%	Bolts	Bolt Type									
Top Tension		0.00		0.00	0											
Top Compression		0.76	90 deg Ice	0.00	0											
Bot Tension		7.86	60 deg No Ice	73.65	11	4	5/8 A325									
Bot Compression		10.65	Normal Ice	0.00	0											

Site Number: 6260
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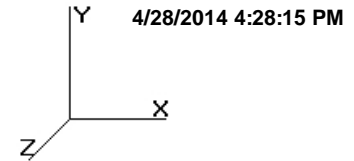
Support Forces Summary

Load Case	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
90 deg	1b	-9.77	-90.07	-4.42	
	1a	-12.69	150.83	6.08	
	1	-2.14	30.38	-1.66	
60 deg	1b	-10.71	-106.91	-6.18	
	1a	-8.43	98.86	2.76	
	1	-1.83	99.20	-8.69	
Normal	1b	-4.06	-42.24	-4.57	
	1a	4.06	-42.24	-4.57	
	1	0.00	175.62	-16.62	
90 deg Ice	1b	-32.20	-328.07	-15.19	
	1a	-35.69	421.12	16.92	
	1	-6.14	46.53	-1.73	
60 deg Ice	1b	-35.33	-382.70	-20.38	
	1a	-22.75	260.51	6.95	
	1	-5.38	261.77	-23.21	
Normal Ice	1b	-15.04	-176.21	-14.86	
	1a	15.04	-176.21	-14.86	
	1	0.00	492.00	-46.57	
90 deg No Ice	1b	-31.04	-318.08	-14.47	
	1a	-33.90	378.84	15.88	
	1	-6.19	30.39	-1.41	
60 deg No Ice	1b	-33.75	-366.82	-19.47	
	1a	-21.52	228.49	6.25	
	1	-5.36	229.48	-21.79	
Normal No Ice	1b	-14.66	-179.70	-14.83	
	1a	14.66	-179.70	-14.83	
	1	0.00	450.55	-44.83	

Max Uplift:	382.70 (kip)	Moment:	10,188.57 (ft-kip)	Normal No Ice
Max Down:	492.00 (kip)	Total Down:	91.15 (kip)	
Max Shear:	46.57 (kip)	Total Shear:	74.49 (kip)	

Site Number: 6260
 Location: North Stonington CT, CT

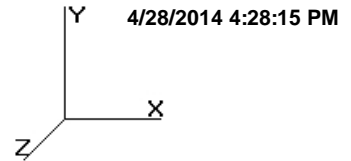
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Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
50.00 mph Wind at 60 deg From Face with No Ice	60.00	0.0278	0.0327	0.0479
	80.00	0.0477	0.0484	0.0651
	120.00	0.1044	0.0922	0.1014
	150.00	0.1630	0.1432	0.1239
	160.00	0.1857	0.1645	0.1411
	170.00	0.2099	0.1872	0.1303
	193.33	0.2726	0.1861	0.1646
	206.67	0.3119	0.1850	0.1737
	225.00	0.3691	0.1929	0.1940
	230.00	0.3854	0.1977	0.1729
50.00 mph Wind at 90 deg From Face with No Ice	250.00	0.4541	0.1572	0.2010
	60.00	0.0286	0.0194	0.0482
	80.00	0.0484	0.0287	0.0647
	120.00	0.1058	0.0540	0.0994
	150.00	0.1649	0.0828	0.1206
	160.00	0.1878	0.0948	0.1472
	170.00	0.2123	0.1077	0.0796
	193.33	0.2754	0.1075	0.1627
	206.67	0.3151	0.1071	0.1718
	225.00	0.3728	0.1115	0.1996
50.00 mph Wind Normal To Face with No Ice	230.00	0.3892	0.1140	0.1314
	250.00	0.4584	0.0916	0.2032
	60.00	0.0306	0.0290	0.0514
	80.00	0.0507	0.0432	0.0717
	120.00	0.1107	0.0833	0.1133
	150.00	0.1721	0.1313	0.1432
	160.00	0.1962	0.1514	0.1334
	170.00	0.2217	0.1727	0.2233
	193.33	0.2878	0.1709	0.1791
	206.67	0.3292	0.1694	0.1917
73.61 mph Wind at 60 deg From Face with Ice	225.00	0.3895	0.1765	0.1913
	230.00	0.4069	0.1811	0.2655
	250.00	0.4794	0.1428	0.2143
	60.00	0.0915	0.1897	0.1570
	80.00	0.1496	0.2810	0.2070
	120.00	0.3301	0.5321	0.3205
	150.00	0.5181	0.8179	0.4044
	160.00	0.5904	0.9319	0.4479
	170.00	0.6687	1.0657	0.4405
	193.33	0.8705	1.2324	0.5363
73.61 mph Wind at 90 deg From Face with Ice	206.67	0.9969	1.3562	0.5692
	225.00	1.1819	1.7802	0.6760
	230.00	1.2346	2.0050	0.7235
	250.00	1.4550	2.0046	0.6455
	60.00	0.0899	0.0987	0.1530
	80.00	0.1500	0.1460	0.2042
	120.00	0.3314	0.2747	0.3111
	150.00	0.5208	0.4191	0.3856

Site Number: 6260
 Location: North Stonington CT, CT



Code: TIA/EIA-222 Rev F

	160.00	0.5931	0.4765	0.4559
	170.00	0.6719	0.5442	0.3022
	193.33	0.8746	0.6275	0.5139
	206.67	1.0015	0.6891	0.5420
	225.00	1.1869	0.8977	0.7190
	230.00	1.2395	1.0074	0.0967
	250.00	1.4597	1.0084	0.6433
73.61 mph Wind Normal To Face with Ice	60.00	0.0880	0.1550	0.1627
	80.00	0.1542	0.2301	0.2234
	120.00	0.3405	0.4389	0.3645
	150.00	0.5351	0.6803	0.4643
	160.00	0.6096	0.7770	0.4482
	170.00	0.6912	0.8897	0.6767
	193.33	0.9016	1.0262	0.5962
	206.67	1.0335	1.1279	0.6412
	225.00	1.2256	1.4811	0.5834
	230.00	1.2819	1.6672	1.2585
	250.00	1.5134	1.6609	0.6884
85.00 mph Wind at 60 deg From Face with No Ice	60.00	0.0818	0.1450	0.1396
	80.00	0.1382	0.2148	0.1884
	120.00	0.3027	0.4068	0.2933
	150.00	0.4720	0.6253	0.3605
	160.00	0.5379	0.7136	0.4092
	170.00	0.6078	0.8116	0.3893
	193.33	0.7893	0.8660	0.4794
	206.67	0.9029	0.9006	0.5060
	225.00	1.0686	1.0210	0.5637
	230.00	1.1161	1.0844	0.5191
	250.00	1.3148	1.0740	0.5826
85.00 mph Wind at 90 deg From Face with No Ice	60.00	0.0817	0.0782	0.1380
	80.00	0.1398	0.1156	0.1852
	120.00	0.3058	0.2172	0.2816
	150.00	0.4771	0.3308	0.3462
	160.00	0.5432	0.3767	0.4226
	170.00	0.6141	0.4278	0.2279
	193.33	0.7971	0.4569	0.4671
	206.67	0.9118	0.4753	0.4932
	225.00	1.0789	0.5367	0.5722
	230.00	1.1266	0.5684	0.3751
	250.00	1.3269	0.5648	0.5868
85.00 mph Wind Normal To Face with No Ice	60.00	0.0874	0.1208	0.1491
	80.00	0.1464	0.1795	0.2092
	120.00	0.3196	0.3430	0.3313
	150.00	0.4974	0.5326	0.4221
	160.00	0.5671	0.6095	0.3954
	170.00	0.6409	0.6943	0.6557
	193.33	0.8323	0.7386	0.5313
	206.67	0.9523	0.7665	0.5692
	225.00	1.1268	0.8680	0.5731
	230.00	1.1770	0.9215	0.7888
	250.00	1.3871	0.9107	0.6208
		0.0000	0.0000	0.0000

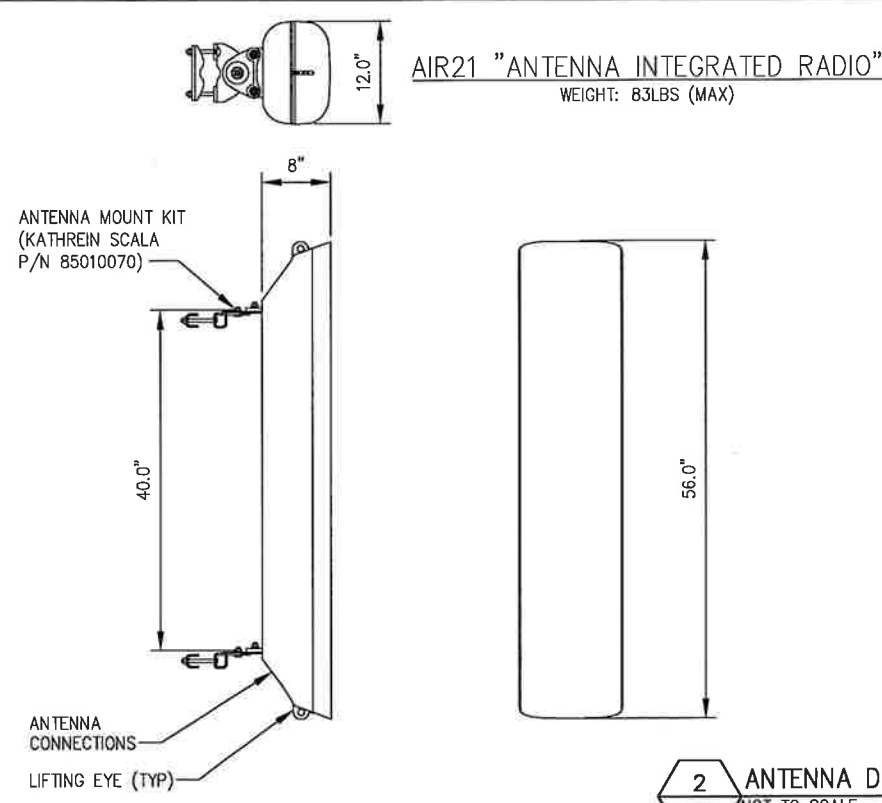
RF SYSTEM SCHEDULE (2C CONFIGURATION)

SECTOR	TECHNOLOGY	ANTENNA PORT	BAND	ANTENNA MODEL #	VENDOR	AZIMUTH	M-TILT	E-TILT	ANTENNA CENTERLINE	TMA MODEL #	VENDOR	CABLE LENGTH	CABLE DIAMETER	CABLE TYPE	CABLE MODEL #	VENDOR	CABLE TAGGING	COLOR CODING	JUMPER TYPE	JUMPER TAGGING	COLOR CODING										
A	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	0°	0°	2°	225'-0"	KRY 112 144/1	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS A1	B	COAX	UMTS AWS A1	B										
		RF #2										EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS A2	B	COAX	UMTS AWS A2	B										
	LMU	LMU #1	-									(P) 230±	1-5/8"	COAX	TBD	N/A	LMU A1	-	COAX	LMU A1	-										
		LMU #2										(P) 230±	1-5/8"	COAX	TBD	N/A	LMU A2	-	COAX	LMU A2	-										
	GSM	OPTICAL #1	B2A									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	FIBER	GSM 1900 A1	R		
	UMTS	OPTICAL #2																									FIBER	UMTS 1900 A2	G		
LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	0°	0°	2°	225'-0"	-	-	-	230'±	-	HYBRID	MASTERLINE EXTREME HYBRID (9x18)	ERICSSON	FIBER 1	0	FIBER	LTE FIBER 1	Y										
B	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	120°	0°	2°	225'-0"	KRY 112 144/1	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS B1	BB	COAX	UMTS AWS B1	BB										
		RF #2										EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS B2	BB	COAX	UMTS AWS B2	BB										
	LMU	LMU #1	-									(P) 230±	1-5/8"	COAX	TBD	N/A	LMU B1	-	COAX	LMU B1	-										
		LMU #2										(P) 230±	1-5/8"	COAX	TBD	N/A	LMU B2	-	COAX	LMU B2	-										
	GSM	OPTICAL #1	B2A									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	HYBRID	GSM 1900 B1	RR	
	UMTS	OPTICAL #2																										HYBRID	UMTS 1900 B2	GG	
LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	120°	0°	2°	225'-0"	-	-	-	-	-	-	-	-	-	-	HYBRID	LTE FIBER 2	YY										
C	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	240°	0°	2°	225'-0"	KRY 112 144/1	N/A	EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS C1	BBB	COAX	UMTS AWS C1	BBB										
		RF #2										EXISTING	1-5/8"	COAX	EXISTING	N/A	UMTS AWS C2	BBB	COAX	UMTS AWS C2	BBB										
	LMU	LMU #1	-									(P) 230±	1-5/8"	COAX	TBD	N/A	LMU C1	-	COAX	LMU C1	-										
		LMU #2										(P) 230±	1-5/8"	COAX	TBD	N/A	LMU C2	-	COAX	LMU C2	-										
	GSM	OPTICAL #1	B2A									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	HYBRID	GSM 1900 C1	RRR
	UMTS	OPTICAL #2																											HYBRID	UMTS 1900 C2	GGG
LTE AWS	OPTICAL #1	B4A	AIR21	ERICSSON	240°	0°	2°	225'-0"	-	-	-	-	-	-	-	-	-	-	HYBRID	LTE FIBER 3	YYY										

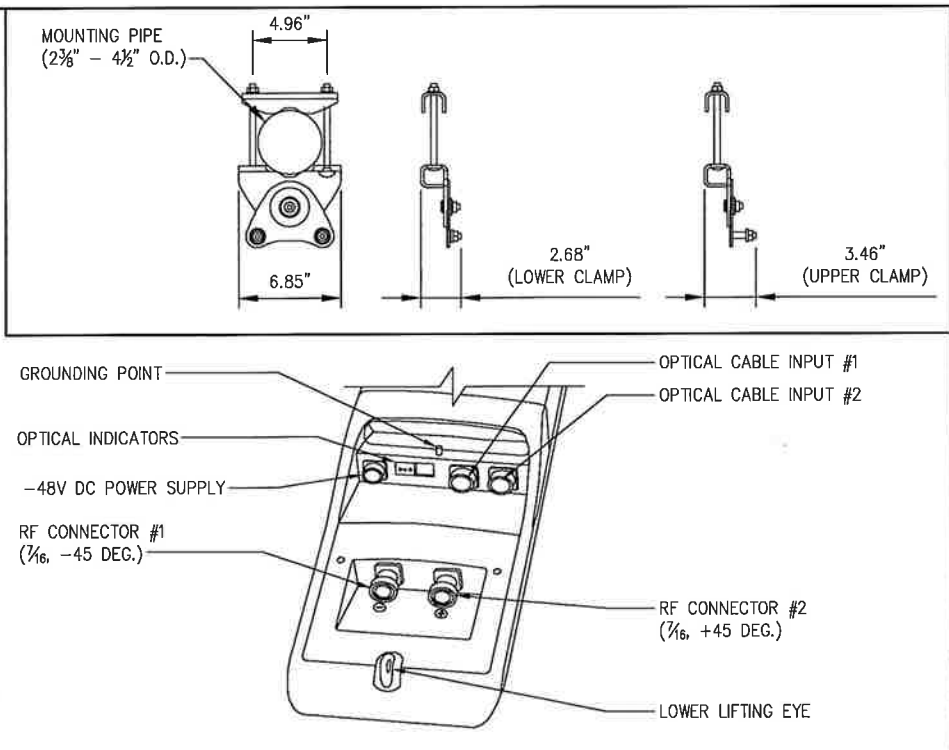
1 RF SCHEDULE
NOT TO SCALE

KEY

EXISTING	R - RED - GSM
PROPOSED	G - GREEN - UMS 1900
FIBER CONNECTION	B - BLUE - UMS AWS
	Y - YELLOW - LTE
	O - ORANGE - FIBER CABLE



2 ANTENNA DETAIL
NOT TO SCALE



ANTENNA CONNECTION INTERFACE DETAIL
NOT TO SCALE



- METALLIC TAG NOTES:
- TWO METALLIC TAGS SHALL BE ATTACHED AT EACH END OF EVERY CABLE LONGER THAN (3) THREE FEET.
 - CABLES LESS THAN (3) THREE FEET WILL HAVE TWO METALLIC TAGS ATTACHED AT THE CENTER OF THE CABLE.
 - TAGS WILL BE FASTENED WITH STAINLESS STEEL ZIP TIES APPROPRIATE FOR CABLE DIAMETER.
 - STANDARDIZED METALLIC TAG KITS WILL BE ASSEMBLED WITH TAGS ALREADY ENGRAVED TO ACCOMMODATE ALL CONFIGURATIONS.

3 METALLIC TAG DETAIL
NOT TO SCALE



T-Mobile

T-MOBILE NORTHEAST LLC
35 GREEN ROAD SOUTH
BLOOMFIELD, CT 06002

INFINIGY8
1033 WATERLET SHAKER ROAD
OFFICE: (518) 680-0790
FAX: (518) 680-0793

SUBMITTALS

DATE	DESCRIPTION	REVISION
4/1/14	REVIEW	A
4/11/14	FOR PERMIT	0

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: 317-1184
DRAWN BY: JLM
CHECKED BY: AJD



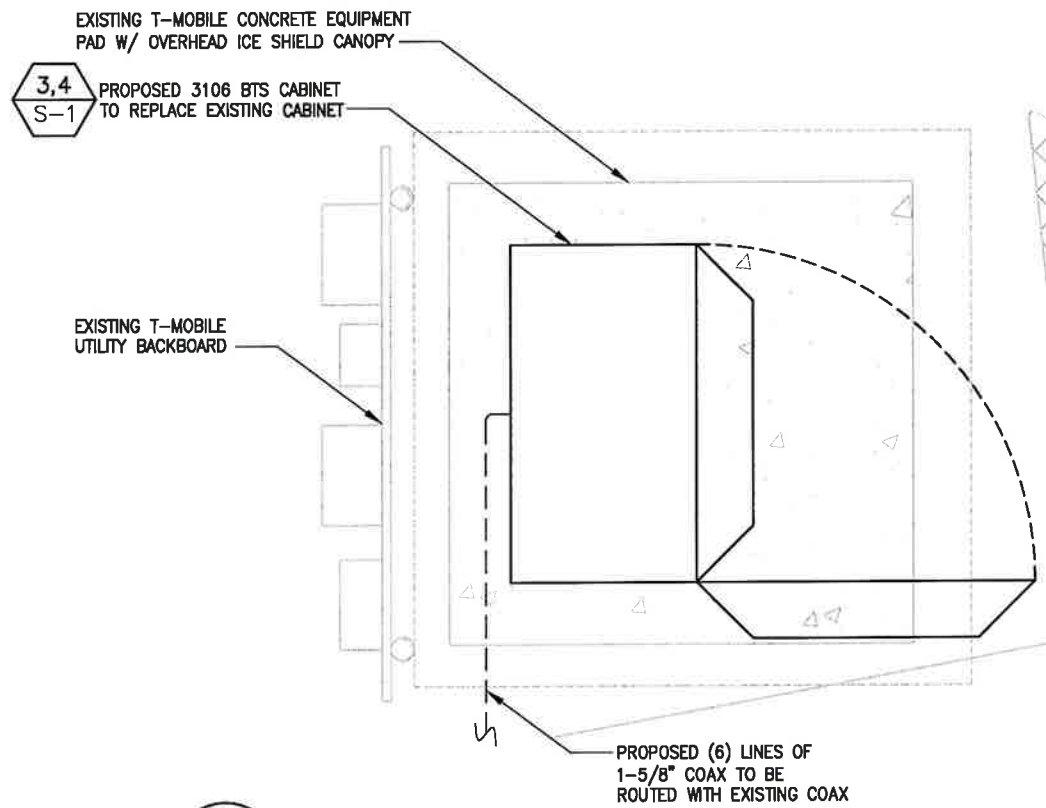
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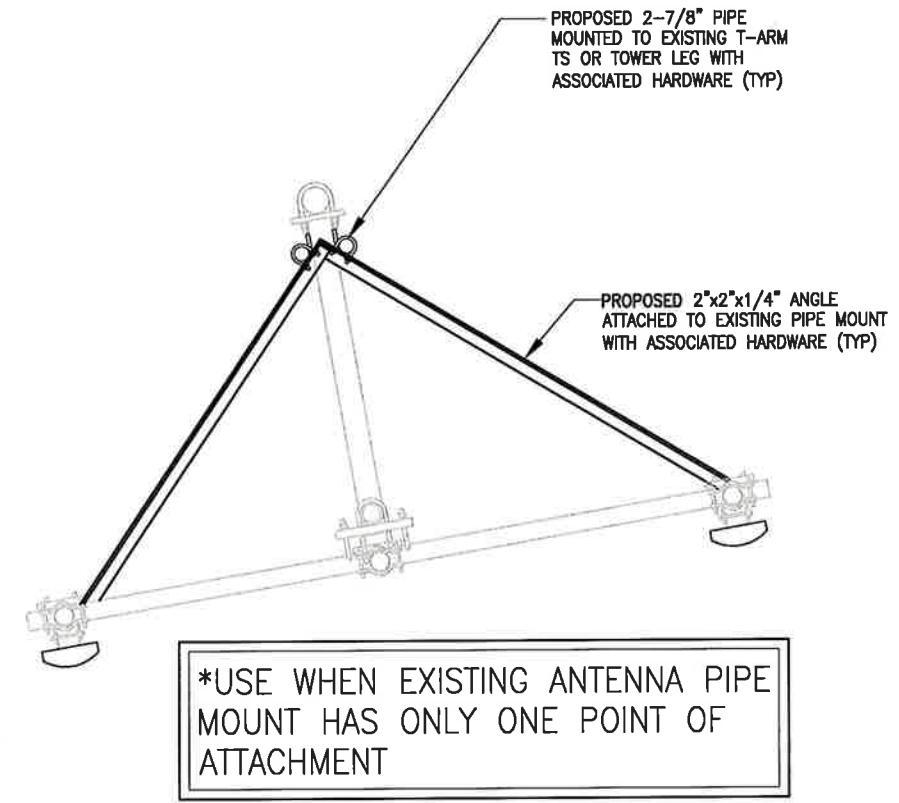
SITE NAME
CT11266A
NORTH STONINGTON-3_1
118 WINTECOG HILL ROAD
NORTH STONINGTON, CT 06359

SHEET TITLE
ANTENNA DETAIL & RF SCHEDULE

SHEET NUMBER
C-3
SHEET 4 OF 8 SHEETS



1 EQUIPMENT PAD LAYOUT PLAN
--- NOT TO SCALE



2 ANTENNA REINFORCEMENT
--- NOT TO SCALE

STRUCTURAL NOTES:
1. SPECIFICATIONS / CODES:
- CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
- STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, 9TH EDITION.
- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-92 "STRUCTURAL WELDING" CODE-STEEL.
- REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE."
2. MATERIALS:
- CONCRETE: $f_c' = 3000$ psi. (MIN. U.N.O.)
- REINFORCING STEEL: ASTM A615, GRADE 60.
- WIRE MESH: ASTM A185.
- STRUCTURAL STEEL: ASTM A36.
- ELECTRODES FOR WELDING: E 70xx.
- GALVANIZING: ASTM A153 (BOLTS) OR ASTM A123 (SHAPES, PLATES).
- EXPANSION BOLTS: HILTI KWIK BOLT II, STAINLESS STEEL, 3/4"x43/4" EMBEDMENT OR AN APPROVED EQUAL.

T-Mobile
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002

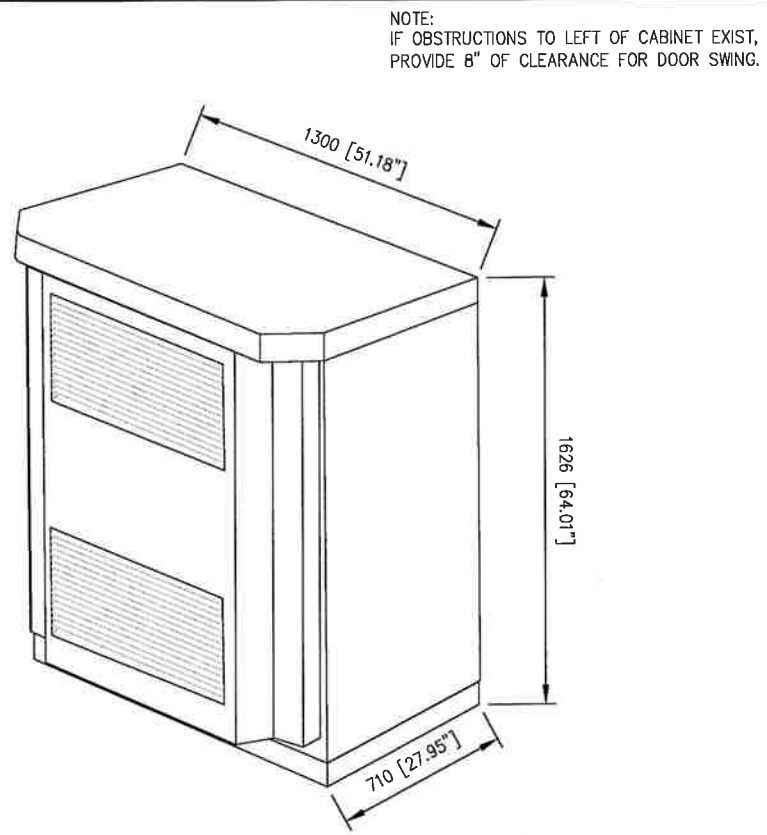
Design: Build: Deliver:
INFINIGY8
1033 WATERBURY BLVD SUITE 12005
ALBANY, NY 12205
OFFICE: (518) 690-0790
FAX: (518) 690-0793

SUBMITTALS

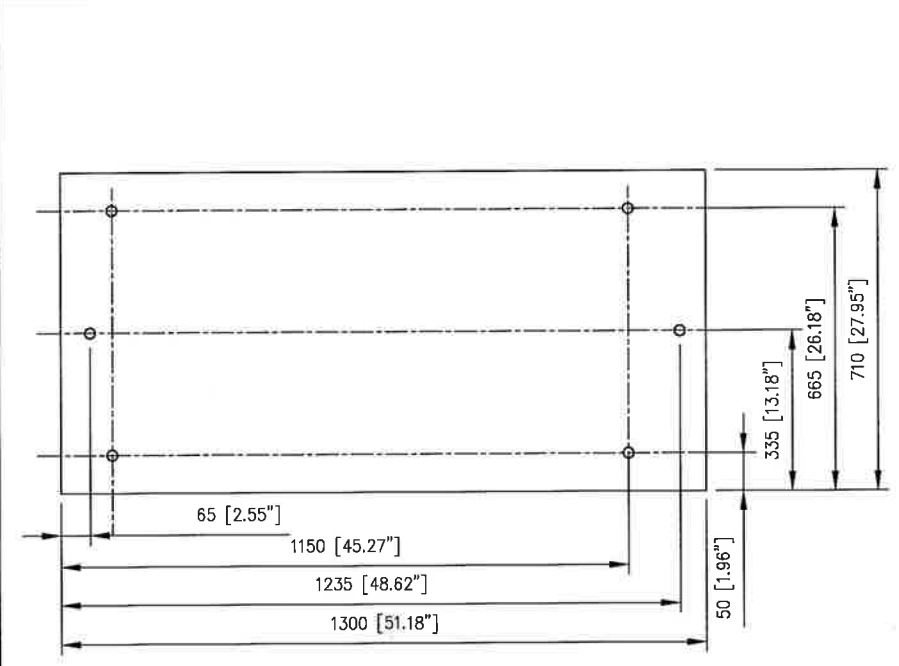
DATE	DESCRIPTION	REVISION
4/1/14	REVIEW	A
4/11/14	FOR PERMIT	0

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

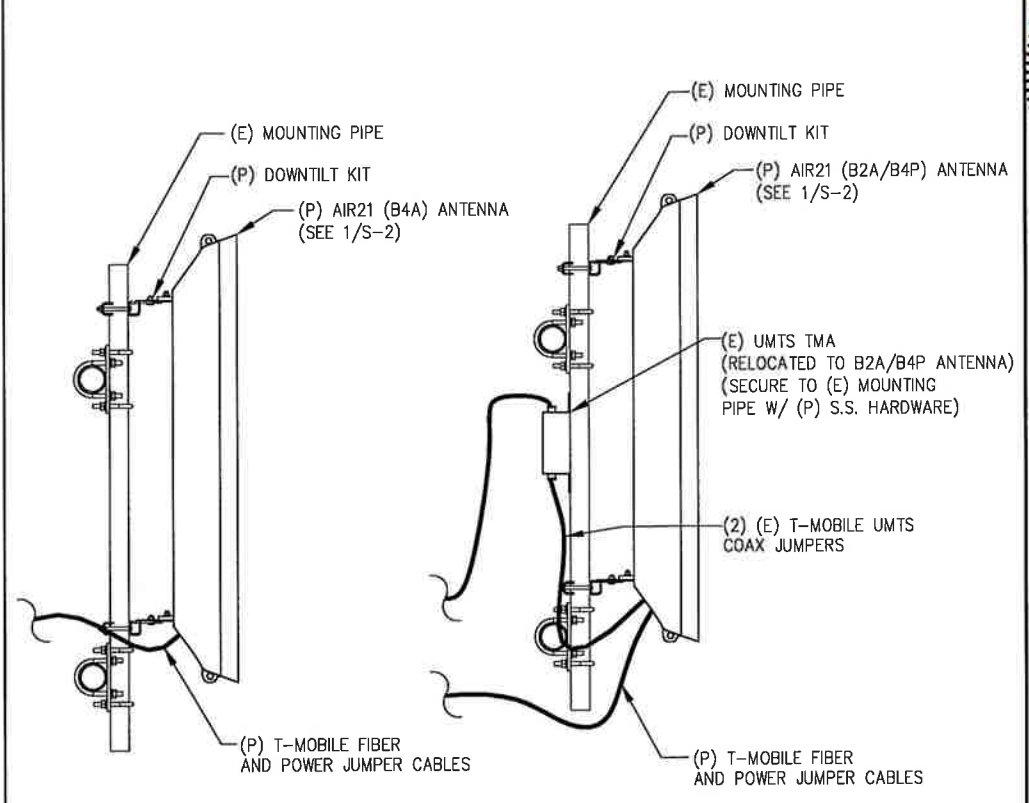
PROJECT NO: 317-1184
DRAWN BY: JLM
CHECKED BY: AJD



4 ERICSSON RBS 3106
--- NOT TO SCALE



5 ERICSSON RBS 3106 BOLT HOLE DIAGRAM
--- NOT TO SCALE



5 ANTENNA MOUNTING DETAIL
--- NOT TO SCALE



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SITE NAME
CT11266A
NORTH STONINGTON-3_1
118 WINTCHOG HILL ROAD
NORTH STONINGTON, CT 06359

SHEET TITLE
EQUIPMENT SPECIFICATIONS

SHEET NUMBER
S-1
SHEET 5 OF 8 SHEETS

