Transcend Wireless
48 Spruce Street
Oakland, NJ 07436
Phone: (203) 217-6200
Chris Bisson
Real Estate Consultant

April 29, 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 305 W. Service Road, Hartford, CT 06120. Known to T-Mobile Northeast LLC as site CT11491B.

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 Statues ("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 (203) 217-6200 or email cbisson@transcendwireless.com with questions concerning this matter.

Thank you for your consideration.

Sincerely,

Chris Bisson
(203) 217-6200

EBI Consulting
environmental | engineering | due diligence

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

T-Mobile Existing Facility

Site ID: CT11491B

CT491 / Ssite Hartford_MP1

305 West Service Road
Hartford, CT 06120

March 20, 2014

EBI Project Number: 62141634

21 B Street · Burlington, MA 01803 · Tel: (781) 273.2500 · Fax: (781) 273.3311

EBI Consulting
environmental | engineering | due diligence

March 20, 2014

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

Re: Emissions Values for Site: **CT11491B - CT491 / Ssite Hartford_MP1**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at 305 West Service Road, Hartford, 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 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (µW/cm2). The number of µW/cm2 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 (µW/cm2). The general population exposure limit for the cellular band is 567 µW/cm2, and the general population exposure limit for the PCS & AWS bands is 1000 µW/cm2. 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 305 West Service Road, Hartford, 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 channels (1935.000 MHz—to 1945.000 MHz) were considered for each sector of the proposed installation.
2) 2 UMTS channels (2110.000 MHz to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation
3) 2 LTE channels (2110.000 MHz to 2120.000 MHz / 2140.000 MHz to 2145.000 MHz) were considered for each sector of the proposed installation
4) 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.
5) 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.
6) 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

7) The antenna mounting height centerline of the proposed antennas is **125 feet** above ground level (AGL)
8) 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 calculation were done with respect to uncontrolled / general public threshold limits

Site ID	CT11491B - CT491 / Ssite Hartford_MP1
Site Addresss	305 West Service Road, Hartford, CT 06120
Site Type	Monopole

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	125	119	None	0	0	48.326044	1.226855	0.12269%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	125	119	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	125	119	1-5/8"	0	0	24.163022	0.613428	0.06134%
2B	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	125	119	1-5/8"	0	0	24.163022	0.613428	0.06134%
														Sector total Power Density Value:			0.245%

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	125	119	None	0	0	48.326044	1.226855	0.12269%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	125	119	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	125	119	1-5/8"	0	0	24.163022	0.613428	0.06134%
28	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	125	119	1-5/8"	0	0	24.163022	0.613428	0.06134%
														Sector total Power Density Value:			0.245%

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	125	119	None	0	0	48.326044	1.226855	0.12269%
1b	Ericsson	AIR21 B4A/B2P	Not Used	-	-			0	-3.95	125	119	None	0	0	0	0	0.00000%
2a	Ericsson	AIR21 B2A / B4P	Active	PCS - 1950 MHz	GSM / UMTS	30	2	60	-3.95	125	119	1-5/8"	0	0	24.163022	0.613428	0.06134%
28	Ericsson	AIR21 B2A / B4P	Passive	AWS - 2100 MHz	UMTS	30	2	60	-3.95	125	119	1-5/8"	0	0	24.163022	0.613428	0.06134%
														Sector total Power Density Value:			0.245%

Site Composite MPE %	
Carrier	MPE %
T-Mobile	0.736%
NorthCoast	2.010%
Nextel	2.540%
Clearwire	2.300%
Verizon Wireless	41.280%
Total Site MPE %	**48.866%**

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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 **0.736% (0.245% 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 **48.866%** 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

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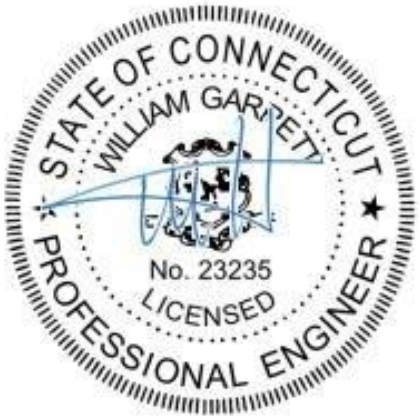
Structural Analysis Report

Structure	:	**150 ft Monopole**
ATC Site Name	:	**West Service Road, CT**
ATC Site Number	:	**302466**
Engineering Number	:	**57303323**
Proposed Carrier	:	**T-Mobile**
Carrier Site Name	:	**West Service Road**
Carrier Site Number	:	**CT11491B**
Site Location	:	**305 W. Service Rd.** **Hartford, CT 06120-0001** **41.799539,-72.656697**
County	:	**Hartford**
Date	:	**March 19, 2014**
Max Usage	:	**62%**
Result	:	**Pass**

William Maynard, E.I.



Mar 20 2014 1:24 PM

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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 147.9 ft monopole to reflect the change in loading by T-Mobile.

Supporting Documents

Tower Drawings	FWT Job #18053, dated September 10, 1998
Foundation Drawing	FWT Job #18054, dated September 10, 1998
Geotechnical Report	Gibble Norden Champion Project #98134.09, dated September 8, 1998

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:	95 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
Structure Class:	II
Exposure Category:	C
Topographic Category:	1

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					
147.9	150.0	9	48" x 12" Panels	Flush	(12) 1 5/8" Coax	Sprint Nextel
		3	72" x 12" Panels			
136.0	139.0	9	48" x 4" Panels	Low Profile Platform	(9) 1 5/8" Coax	AT&T Mobility
125.0	-	-	-	T-Arms	(6) 1 5/8" Coax	T-Mobile
115.0	115.0	3	Alcatel-Lucent RRH2x40-AWS	Low Profile Platform	(18) 1 5/8" Coax (1) 1 5/8" Hybriflex	Verizon
		2	Antel BXA-171063-8BF-EDIN-X			
		1	Antel BXA-171063-12BF-EDIN-X			
		3	Antel BXA-171063-12CF-EDIN-X			
		1	RFS DB-T1-6Z-8AB-0Z			
		6	Antel BXA-70063-6CF-EDIN-X			
97.0	102.0	1	Antel BCD-87010_25	Stand Off	(1) 7/8" Coax	SMS
90.0	90.0	2	DragonWave Horizon Compact	Side Arms	(6) 5/16" Coax (2) 3" Conduit (2) 1/2" Coax	Clearwire
		3	NextNet BTS-2500			
		3	Argus LLPX310R			
		2	DragonWave A-ANT-18G-2-C			

Equipment to be Removed

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
125.0	125.0	6	Andrew ETW200VA12UB	T-Arm	-	T-Mobile

Proposed Equipment

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
125.0	125.0	3	Ericsson KRY 112 144/1	T-Arms	(6) 1 5/8" Coax (1) 1 5/8" Fiber	T-Mobile
		3	Ericsson AIR 21, 1.3M, B2A B4P			
		3	Ericsson AIR 21, 1.3M, B4A B2P			

[1]Mount 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).

Install proposed 1 5/8" coax and 1 5/8" Hybriflex outside the pole shaft. Stacking is permitted.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	60%	Pass
Shaft	62%	Pass
Base Plate	51%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	3,969.0	5,358.2	3,053.7	57%
Shear (Kips)	29.4	39.7	30.4	76%

*** 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 and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
125.0	1.003	0.833

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

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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:

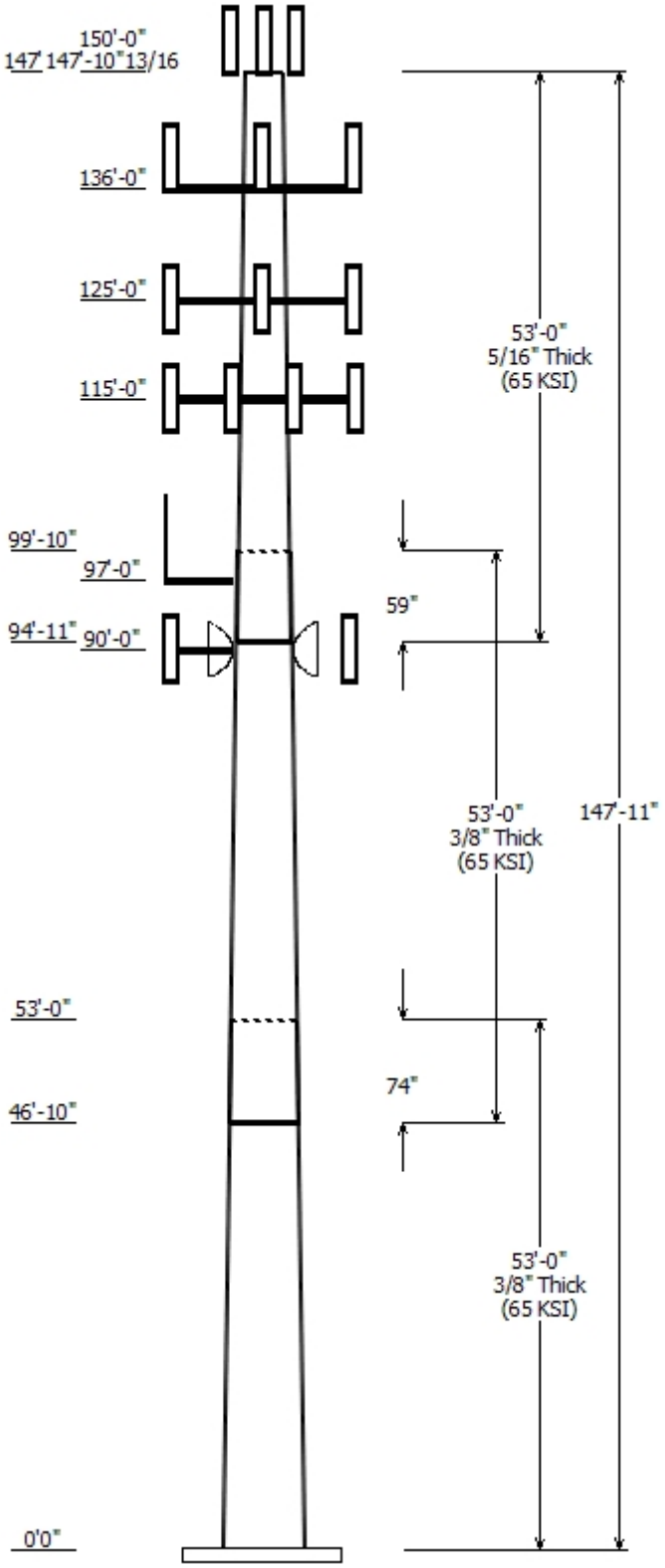
-- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.

-- 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.



Job Information

Pole :	302466	Code:	ANSI/TIA-222 Rev G
Description :	148 ft FWT Monopole		
Client :	T- Mobile	Struct Class :	II
Location :	West Service Road, CT		
Shape :	18 Sides	Exposure :	C
Height :	147.92 (ft)	Topo :	1
Base Elev (ft):	0.00		
Taper:	0.21456 (in/ft)		

Sections Properties

Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	53.000	45.20	56.58	0.375		0.000	0.214565	65
2	53.000	35.90	47.28	0.375	Slip Joint	74.000	0.214565	65
3	53.000	26.21	37.58	0.313	Slip Joint	59.000	0.214565	65

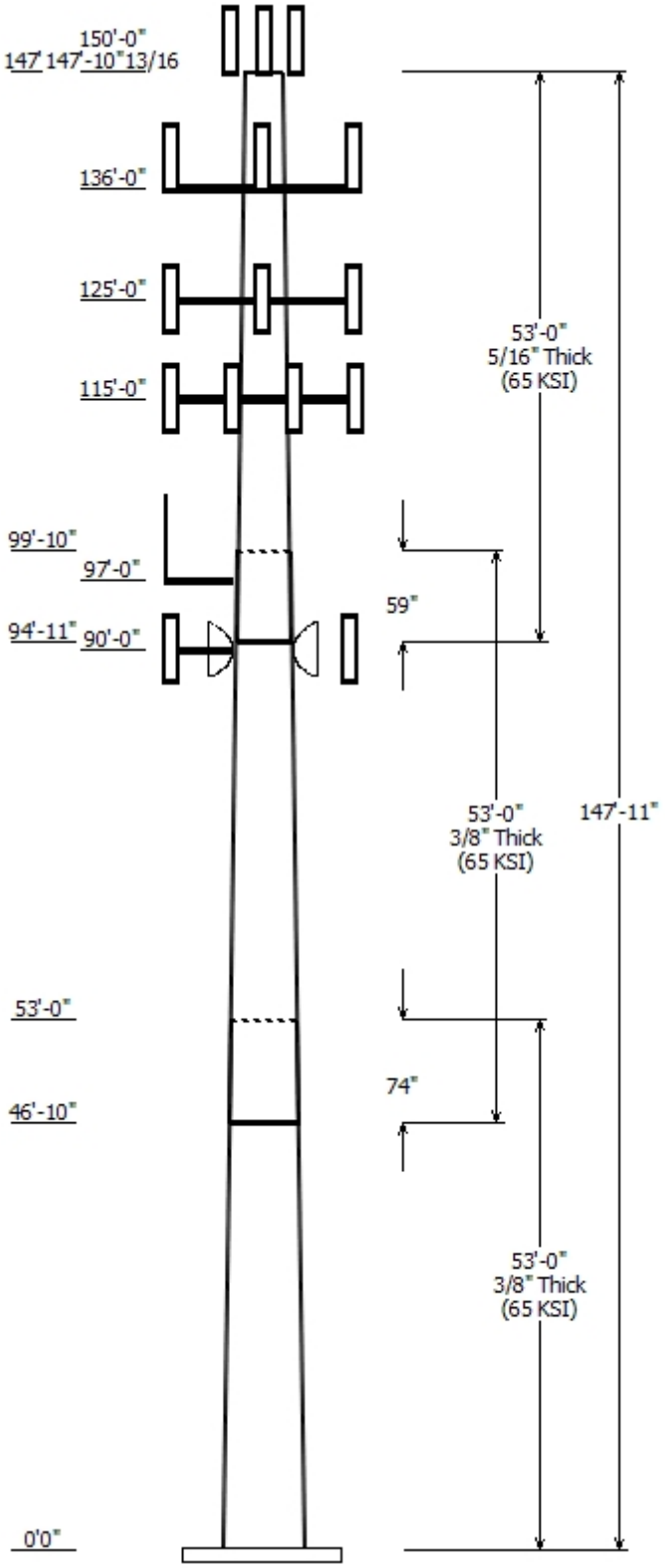
Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	150.000	1	Flat Platform w/ Handrails
147.900	150.000	3	72" x 12" Panels
147.900	150.000	9	48" x 12" Panels
136.000	139.000	9	48" x 4" Panels
136.000	136.000	1	Flat Low Profile Platform
125.000	125.000	3	Ericsson AIR 21, 1.3M, B4A B2P
125.000	125.000	3	Ericsson AIR 21, 1.3M, B2A B4P
125.000	125.000	3	Ericsson KRY 112 144/1
125.000	125.000	3	Flat T-Arm
115.000	115.000	6	Antel BXA-70063-6CF-EDIN-X
115.000	115.000	3	Antel BXA-171063-12CF-EDIN-X
115.000	115.000	3	Alcatel-Lucent RRH2x40-AWS
115.000	115.000	1	RFS DB-T1-6Z-8AB-0Z
115.000	115.000	2	Antel BXA-171063-8BF-EDIN-X
115.000	115.000	1	Antel BXA-171063-12BF-EDIN-X
115.000	115.000	1	Flat Low Profile Platform
97.000	97.000	1	Stand Off
97.000	102.000	1	Antel BCD-87010_25
90.000	90.000	1	Side Arms
90.000	90.000	3	NextNet BTS-2500
90.000	90.000	3	Argus LLPX310R
90.000	90.000	2	DragonWave Horizon Compact
90.000	90.000	2	DragonWave A-ANT-18G-2-C

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
5.000	90.000	1/2" Coax	Yes
5.000	90.000	3" Conduit	Yes
5.000	90.000	5/16" Coax	Yes
5.000	97.000	7/8" Coax	Yes
5.000	115.0	1 5/8" Coax	No
5.000	115.0	1 5/8" Hybriflex	No
5.000	125.0	1 5/8" Coax	Yes
5.000	125.0	1 5/8" Coax	Yes
5.000	125.0	1 5/8" Fiber	Yes
5.000	136.0	1 5/8" Coax	No
5.000	147.9	1 5/8" Coax	No

Load Cases



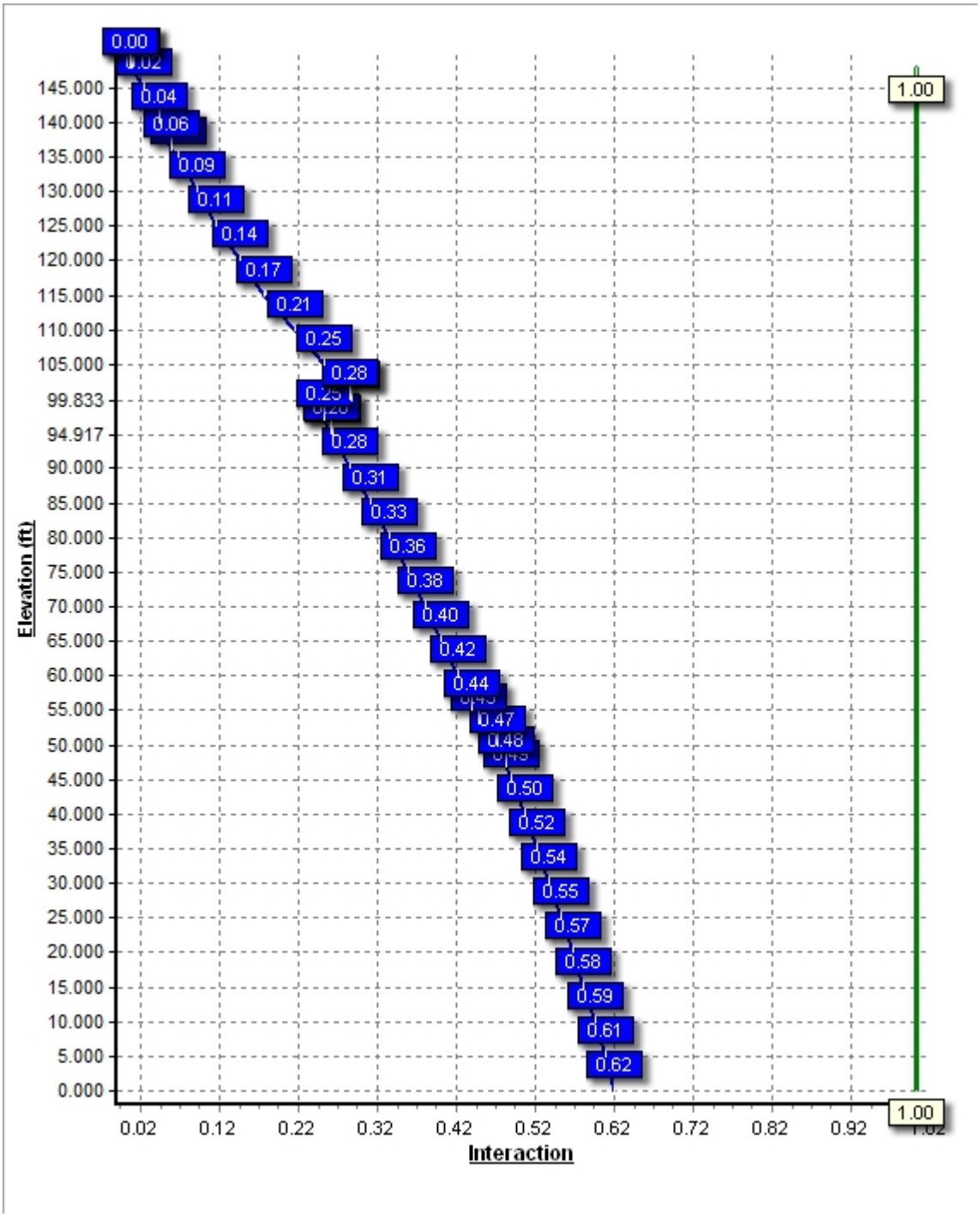
1.2D + 1.6W	95.00 mph with No Ice
0.9D + 1.6W	95.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

Reactions

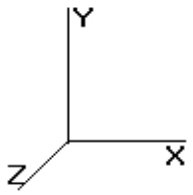
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3053.71	30.36	48.49
0.9D + 1.6W	2920.88	28.63	36.36
1.2D + 1.0Di + 1.0Wi	924.99	8.97	88.87
1.0D + 1.0W	730.61	7.14	40.44

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	90.00	6.479	0.664


0.00
0.04
0.06
0.09
0.11
0.14
0.17
0.21
0.25
0.28
0.28
0.31
0.33
0.36
0.38
0.40
0.42
0.44
0.47
0.48
0.50
0.52
0.54
0.55
0.57
0.58
0.59
0.61
0.62
1.00
1.00
145.000
140.000
135.000
130.000
125.000
120.000
115.000
110.000
105.000
99.833
94.917
90.000
85.000
80.000
75.000
70.000
65.000
60.000
55.000
50.000
45.000
40.000
35.000
30.000
25.000
20.000
15.000
10.000
5.000
0.000
Elevation (ft)
0.02
0.12
0.22
0.32
0.42
0.52
0.62
0.72
0.82
0.92
Interaction

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	**3/19/2014 6:59:23 PM**
Location :	**West Service Road, CT**	**Struct Class : II**	**Page: 1**
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



Shaft Section Properties

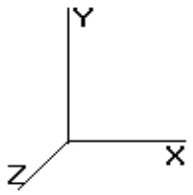
Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (sqin)	Bottom Ix (in^4)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (ft)	Top Area (sqin)	Top Ix (in^4)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	53.000	0.3750	65		0.00	10,844	56.58	0.00	66.90	26698.9	24.84	150.88	45.20	53.00	53.36	13550.7	19.49	120.55	0.214565
2-18	53.000	0.3750	65	Slip	74.00	8,848	47.28	46.83	55.83	15518.8	20.47	126.08	35.90	99.83	42.29	6746.9	15.12	95.76	0.214565
3-18	53.000	0.3125	65	Slip	59.00	5,651	37.58	94.92	36.97	6490.8	19.45	120.28	26.21	147.92	25.69	2178.3	13.03	83.89	0.214565
				Shaft Weight		25,343													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor	Distance From Face (ft)	Vert Ecc (ft)
150.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,896.12	70.381	1.00	0.000	0.000
147.90	48" x 12" Panels	9	30.00	5.070	0.67	220.42	6.409	0.67	0.000	2.100
147.90	72" x 12" Panels	3	45.00	8.130	0.67	317.28	9.898	0.67	0.000	2.100
136.00	48" x 4" Panels	9	20.00	2.090	0.67	104.55	3.228	0.67	0.000	3.000
136.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,357.19	51.359	1.00	0.000	0.000
125.00	Ericsson AIR 21, 1.3M, B2A	3	83.00	6.050	0.86	317.76	7.517	0.86	0.000	0.000
125.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	0.85	316.20	7.562	0.85	0.000	0.000
125.00	Ericsson KRY 112 144/1	3	11.00	0.410	0.50	36.27	0.745	0.50	0.000	0.000
125.00	Flat T-Arm	3	250.00	12.900	0.67	524.19	23.629	0.67	0.000	0.000
115.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.160	0.67	147.07	3.022	0.67	0.000	0.000
115.00	Antel BXA-171063-12BF-EDIN-	1	15.00	4.730	0.88	183.74	6.358	0.88	0.000	0.000
115.00	Antel BXA-171063-12CF-EDIN-	3	15.00	4.790	0.88	185.19	6.405	0.88	0.000	0.000
115.00	Antel BXA-171063-8BF-EDIN-X	2	10.50	2.940	0.87	128.87	4.096	0.87	0.000	0.000
115.00	Antel BXA-70063-6CF-EDIN-X	6	17.00	7.570	0.77	248.60	9.230	0.77	0.000	0.000
115.00	Flat Low Profile Platform	1	1500.00	26.100	1.00	2,342.93	50.939	1.00	0.000	0.000
115.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	0.67	240.71	5.957	0.67	0.000	0.000
97.00	Antel BCD-87010_25	1	26.50	2.900	1.00	220.50	7.330	1.00	0.000	5.000
97.00	Stand Off	1	150.00	6.300	1.00	243.56	9.444	1.00	0.000	0.000
90.00	Argus LLPX310R	3	28.60	4.290	0.73	174.07	5.451	0.73	0.000	0.000
90.00	DragonWave A-ANT-18G-2-C	2	27.10	4.690	1.00	151.09	6.308	1.00	0.000	0.000
90.00	DragonWave Horizon	2	10.60	0.430	0.50	53.03	0.758	0.50	0.000	0.000
90.00	NextNet BTS-2500	3	35.00	1.820	0.50	114.11	2.573	0.50	0.000	0.000
90.00	Side Arms	1	560.00	8.500	1.00	1,154.34	17.521	1.00	0.000	0.000
	Totals	65	8223.20			22,117.69			Number of Loadings :	23

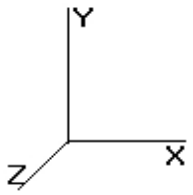
Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
5.00	147.90	(12) 1 5/8" Coax	0.00	N
5.00	136.00	(9) 1 5/8" Coax	0.00	N
5.00	125.00	(6) 1 5/8" Coax	1.98	Y
5.00	125.00	(6) 1 5/8" Coax	1.98	Y
5.00	125.00	(1) 1 5/8" Fiber	0.00	Y
5.00	115.00	(18) 1 5/8" Coax	0.00	N
5.00	115.00	(1) 1 5/8" Hybriflex	0.00	N
5.00	97.00	(1) 7/8" Coax	0.00	Y
5.00	90.00	(2) 1/2" Coax	0.00	Y
5.00	90.00	(2) 3" Conduit	3.50	Y



5.00	**90.00**	**(6) 5/16" Coax**	**0.00**	**Y**

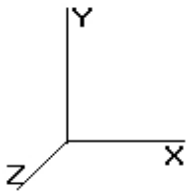
Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



Segment Properties (Max Len : 5 ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	S (in3)	Weight (lb)
0.00		0.3750	56.580	66.895	26,698.9	24.84	150.88	72.2	929.4	0.0
5.00		0.3750	55.507	65.618	25,199.0	24.34	148.02	72.8	894.2	1,127.3
10.00		0.3750	54.434	64.341	23,756.4	23.83	145.16	73.4	859.6	1,105.6
15.00		0.3750	53.361	63.065	22,369.9	23.33	142.30	74.0	825.7	1,083.8
20.00		0.3750	52.288	61.788	21,038.5	22.82	139.44	74.6	792.5	1,062.1
25.00		0.3750	51.216	60.511	19,760.9	22.32	136.57	75.2	760.0	1,040.4
30.00		0.3750	50.143	59.234	18,536.2	21.81	133.71	75.7	728.1	1,018.7
35.00		0.3750	49.070	57.957	17,363.1	21.31	130.85	76.3	696.9	996.9
40.00		0.3750	47.997	56.680	16,240.6	20.81	127.99	76.9	666.5	975.2
45.00		0.3750	46.924	55.403	15,167.5	20.30	125.13	77.5	636.6	953.5
46.83	Bot - Section 2	0.3750	46.531	54.935	14,786.2	20.12	124.08	77.7	625.9	344.2
50.00		0.3750	45.851	54.126	14,142.8	19.80	122.27	78.1	607.5	1,184.8
53.00	Top - Section 1	0.3750	45.958	54.253	14,242.2	19.85	122.55	78.1	610.4	1,106.4
55.00		0.3750	45.529	53.742	13,843.7	19.64	121.41	78.3	598.9	367.5
60.00		0.3750	44.456	52.465	12,880.2	19.14	118.55	78.9	570.7	903.5
65.00		0.3750	43.383	51.188	11,962.5	18.64	115.69	79.5	543.1	881.8
70.00		0.3750	42.310	49.912	11,089.5	18.13	112.83	80.1	516.2	860.1
75.00		0.3750	41.237	48.635	10,259.9	17.63	109.97	80.7	490.0	838.3
80.00		0.3750	40.165	47.358	9,472.9	17.12	107.11	81.3	464.5	816.6
85.00		0.3750	39.092	46.081	8,727.1	16.62	104.24	81.9	439.7	794.9
90.00		0.3750	38.019	44.804	8,021.5	16.11	101.38	82.4	415.6	773.2
94.92	Bot - Section 3	0.3750	36.964	43.548	7,365.9	15.62	98.57	82.6	392.5	739.1
95.00		0.3750	36.946	43.527	7,355.1	15.61	98.52	82.6	392.1	22.8
97.00		0.3750	36.517	43.016	7,099.2	15.41	97.38	82.6	382.9	544.5
99.83	Top - Section 2	0.3125	36.534	35.926	5,955.1	18.85	116.91	79.2	321.1	760.5
100.0		0.3125	36.498	35.890	5,937.5	18.83	116.79	79.3	320.4	20.4
105.0		0.3125	35.425	34.826	5,424.9	18.23	113.36	80.0	301.6	601.6
110.0		0.3125	34.353	33.762	4,942.7	17.62	109.93	80.7	283.4	583.5
115.0		0.3125	33.280	32.698	4,490.0	17.01	106.50	81.4	265.7	565.4
120.0		0.3125	32.207	31.634	4,065.7	16.41	103.06	82.1	248.6	547.3
125.0		0.3125	31.134	30.570	3,669.1	15.80	99.63	82.6	232.1	529.2
130.0		0.3125	30.061	29.506	3,299.1	15.20	96.20	82.6	216.2	511.1
135.0		0.3125	28.988	28.442	2,954.9	14.59	92.76	82.6	200.8	493.0
136.0		0.3125	28.774	28.229	2,889.1	14.47	92.08	82.6	197.8	96.4
140.0		0.3125	27.916	27.378	2,635.5	13.99	89.33	82.6	186.0	378.4
145.0		0.3125	26.843	26.314	2,340.0	13.38	85.90	82.6	171.7	456.8
147.9		0.3125	26.221	25.697	2,179.2	13.03	83.91	82.6	163.7	256.6
147.9		0.3125	26.217	25.693	2,178.3	13.03	83.89	82.6	163.6	1.5
										25,342.5

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 23 Iterations

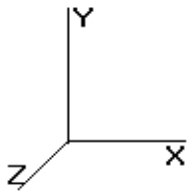
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)		Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	18.656	20.52	419.33		0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	18.656	20.52	411.38		0.650	0.000	5.00	23.712	15.41	506.1	0.0	1,352.7
10.00		1.00	0.85	18.656	20.52	403.43		0.716	* 0.000	5.00	23.258	16.64	546.5	0.0	1,326.7
15.00		1.00	0.85	18.656	20.52	395.48		0.721	* 0.000	5.00	22.804	16.44	539.7	0.0	1,300.6
20.00		1.00	0.90	19.795	21.77	399.18		0.726	* 0.000	5.00	22.350	16.23	565.5	0.0	1,274.5
25.00		1.00	0.94	20.747	22.82	400.28		0.732	* 0.000	5.00	21.896	16.02	585.1	0.0	1,248.5
30.00		1.00	0.98	21.559	23.71	399.49		0.738	* 0.000	5.00	21.442	15.82	600.2	0.0	1,222.4
35.00		1.00	1.01	22.270	24.49	397.34		0.744	* 0.000	5.00	20.988	15.61	611.9	0.0	1,196.3
40.00		1.00	1.04	22.905	25.19	394.15		0.750	* 0.000	5.00	20.534	15.40	621.0	0.0	1,170.3
45.00		1.00	1.07	23.480	25.82	390.15		0.757	* 0.000	5.00	20.080	15.20	628.1	0.0	1,144.2
46.83	Bot - Section 2	1.00	1.07	23.679	26.04	388.51		0.762	* 0.000	1.83	7.249	5.52	230.1	0.0	413.0
50.00		1.00	1.09	24.007	26.40	385.48		0.765	* 0.000	3.17	12.578	9.62	406.6	0.0	1,421.8
53.00	Top - Section 1	1.00	1.10	24.303	26.73	382.41		0.770	* 0.000	3.00	11.748	9.04	386.8	0.0	1,327.6
55.00		1.00	1.11	24.494	26.94	386.63		0.768	* 0.000	2.00	7.741	5.95	256.4	0.0	441.0
60.00		1.00	1.13	24.946	27.44	380.99		0.773	* 0.000	5.00	19.036	14.72	646.4	0.0	1,084.2
65.00		1.00	1.15	25.370	27.90	374.94		0.781	* 0.000	5.00	18.582	14.52	648.2	0.0	1,058.1
70.00		1.00	1.17	25.769	28.34	368.53		0.789	* 0.000	5.00	18.128	14.31	649.0	0.0	1,032.1
75.00		1.00	1.19	26.146	28.76	361.81		0.798	* 0.000	5.00	17.674	14.10	649.0	0.0	1,006.0
80.00		1.00	1.20	26.504	29.15	354.80		0.807	* 0.000	5.00	17.220	13.90	648.2	0.0	979.9
85.00		1.00	1.22	26.844	29.52	347.53		0.817	* 0.000	5.00	16.766	13.69	646.8	0.0	953.9
90.00	Appertunance(s)	1.00	1.23	27.169	29.88	340.03		0.827	* 0.000	5.00	16.313	13.48	644.8	0.0	927.8
94.92	Bot - Section 3	1.00	1.25	27.475	30.22	332.45		0.658	* 0.000	4.92	15.598	10.26	496.2	0.0	886.9
95.00		1.00	1.25	27.480	30.22	332.32		0.661	* 0.000	0.08	0.265	0.18	8.5	0.0	27.4
97.00	Appertunance(s)	1.00	1.25	27.601	30.36	329.18		0.662	* 0.000	2.00	6.322	4.19	203.3	0.0	653.4
99.83	Top - Section 2	1.00	1.26	27.769	30.54	324.69		0.665	* 0.000	2.83	8.832	5.87	287.0	0.0	912.6
100.0		1.00	1.26	27.779	30.55	330.07		0.663	* 0.000	0.17	0.515	0.34	16.7	0.0	24.4
105.0		1.00	1.27	28.066	30.87	322.02		0.666	* 0.000	5.00	15.215	10.14	500.9	0.0	721.9
110.0		1.00	1.29	28.342	31.17	313.80		0.673	* 0.000	5.00	14.761	9.93	495.5	0.0	700.2
115.0	Appertunance(s)	1.00	1.30	28.608	31.46	305.43		0.680	* 0.000	5.00	14.307	9.73	489.8	0.0	678.5
120.0		1.00	1.31	28.866	31.75	296.91		0.687	* 0.000	5.00	13.854	9.52	483.7	0.0	656.7
125.0	Appertunance(s)	1.00	1.32	29.115	32.02	288.25		0.695	* 0.000	5.00	13.400	9.31	477.3	0.0	635.0
130.0		1.00	1.33	29.356	32.29	279.47		0.650	0.000	5.00	12.946	8.41	434.8	0.0	613.3
135.0		1.00	1.34	29.591	32.55	270.57		0.650	0.000	5.00	12.492	8.12	422.9	0.0	591.6
136.0	Appertunance(s)	1.00	1.35	29.637	32.60	268.78		0.650	0.000	1.00	2.444	1.59	82.9	0.0	115.7
140.0		1.00	1.35	29.818	32.80	261.56		0.650	0.000	4.00	9.594	6.24	327.3	0.0	454.1
145.0		1.00	1.36	30.039	33.04	252.43		0.650	0.000	5.00	11.584	7.53	398.1	0.0	548.1
147.9	Appertunance(s)	1.00	1.37	30.165	33.18	247.10		0.650	0.000	2.90	6.511	4.23	224.7	0.0	307.9
147.9	Appertunance(s)	1.00	1.37	30.165	33.18	247.07		0.650	0.000	0.02	0.038	0.02	1.3	0.0	1.8
* = Cf Adjusted By Linear Load Ra Effect							Totals:			147.92			16,366.9	0.0	30,411.0

Pole :	302466	Code:	ANSI/TIA-222 Rev G		3/19/2014 6:59:23 PM
Location :	West Service Road, CT	Struct Class :	II		Page: 5
Height :	147.9 (ft)	Exposure Category :	C		
Base Dia :	56.58 (in)	Topographic Category :	1		
Top Dia :	26.21 (in)	Base Elev :	0.000 (ft)		
Shape :	18 Sides				
Taper :	0.214565 (in/ft)				



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 23 Iterations

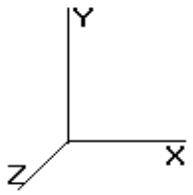
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
90.00	DragonWave A-ANT-	2	27.169	29.886	1.00	0.80	7.50	0.000	0.000	358.83	0.00	0.00	65.04
90.00	DragonWave Horizon	2	27.169	29.886	0.50	0.80	0.34	0.000	0.000	16.45	0.00	0.00	25.44
90.00	Argus LLPX310R	3	27.169	29.886	0.73	0.80	7.52	0.000	0.000	359.41	0.00	0.00	102.96
90.00	NextNet BTS-2500	3	27.169	29.886	0.50	0.80	2.18	0.000	0.000	104.43	0.00	0.00	126.00
90.00	Side Arms	1	27.169	29.886	1.00	1.00	8.50	0.000	0.000	406.45	0.00	0.00	672.00
97.00	Antel BCD-87010_25	1	27.895	30.684	1.00	1.00	2.90	0.000	5.000	142.38	0.00	711.88	31.80
97.00	Stand Off	1	27.601	30.361	1.00	1.00	6.30	0.000	0.000	306.04	0.00	0.00	180.00
115.0	Flat Low Profile Pla	1	28.608	31.469	1.00	1.00	26.10	0.000	0.000	1,314.15	0.00	0.00	1,800.00
115.0	Antel BXA-171063-12B	1	28.608	31.469	0.88	0.80	3.33	0.000	0.000	167.66	0.00	0.00	18.00
115.0	Antel BXA-171063-8BF	2	28.608	31.469	0.87	0.80	4.09	0.000	0.000	206.06	0.00	0.00	25.20
115.0	RFS DB-T1-6Z-8AB-0Z	1	28.608	31.469	0.67	0.80	2.57	0.000	0.000	129.54	0.00	0.00	52.80
115.0	Alcatel-Lucent RRH2x	3	28.608	31.469	0.67	0.80	3.47	0.000	0.000	174.88	0.00	0.00	158.40
115.0	Antel BXA-171063-12C	3	28.608	31.469	0.88	0.80	10.12	0.000	0.000	509.37	0.00	0.00	54.00
115.0	Antel BXA-70063-6CF-	6	28.608	31.469	0.77	0.80	27.98	0.000	0.000	1,408.75	0.00	0.00	122.40
125.0	Flat T-Arm	3	29.115	32.026	0.67	0.75	19.45	0.000	0.000	996.50	0.00	0.00	900.00
125.0	Ericsson KRY 112 144	3	29.115	32.026	0.50	0.80	0.49	0.000	0.000	25.21	0.00	0.00	39.60
125.0	Ericsson AIR 21, 1.3	3	29.115	32.026	0.86	0.80	12.49	0.000	0.000	639.87	0.00	0.00	298.80
125.0	Ericsson AIR 21, 1.3	3	29.115	32.026	0.85	0.80	12.42	0.000	0.000	636.61	0.00	0.00	293.40
136.0	Flat Low Profile Pla	1	29.637	32.600	1.00	1.00	26.10	0.000	0.000	1,361.38	0.00	0.00	1,800.00
136.0	48" x 4" Panels	9	29.773	32.750	0.67	0.80	10.08	0.000	3.000	528.31	0.00	1,584.93	216.00
147.9	48" x 12" Panels	9	30.254	33.280	0.67	0.75	22.93	0.000	2.100	1,220.91	0.00	2,563.92	324.00
147.9	72" x 12" Panels	3	30.254	33.280	0.67	0.75	12.26	0.000	2.100	652.60	0.00	1,370.46	162.00
150.0	Flat Platform w/ Han	1	30.254	33.280	1.00	1.00	42.40	0.000	0.000	2,257.68	0.00	4,702.74	2,400.00
										13,923.49			9,867.84

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 23 Iterations

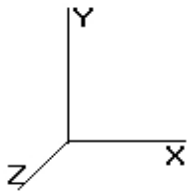
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.134	1.101	0.00	29.52
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.134	1.101	0.00	29.52
10.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.134	1.101	0.00	9.66
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.134	1.101	0.00	1.98
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.134	1.101	0.00	1.80
10.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	18.656	0.134	1.101	0.00	90.96
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.134	1.101	0.00	1.62
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.136	1.109	0.00	29.52
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.136	1.109	0.00	29.52
15.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.136	1.109	0.00	9.66
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.136	1.109	0.00	1.98
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.136	1.109	0.00	1.80
15.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	18.656	0.136	1.109	0.00	90.96
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.136	1.109	0.00	1.62
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	19.795	0.139	1.117	0.00	29.52
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	19.795	0.139	1.117	0.00	29.52
20.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.139	1.117	0.00	9.66
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.139	1.117	0.00	1.98
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.139	1.117	0.00	1.80
20.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	19.795	0.139	1.117	0.00	90.96
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.139	1.117	0.00	1.62
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.747	0.142	1.126	0.00	29.52
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.747	0.142	1.126	0.00	29.52
25.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.142	1.126	0.00	9.66
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.142	1.126	0.00	1.98
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.142	1.126	0.00	1.80
25.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	20.747	0.142	1.126	0.00	90.96
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.142	1.126	0.00	1.62
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.559	0.145	1.135	0.00	29.52
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.559	0.145	1.135	0.00	29.52
30.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.145	1.135	0.00	9.66
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.145	1.135	0.00	1.98
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.145	1.135	0.00	1.80
30.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	21.559	0.145	1.135	0.00	90.96
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.145	1.135	0.00	1.62
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.270	0.148	1.144	0.00	29.52
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.270	0.148	1.144	0.00	29.52
35.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.148	1.144	0.00	9.66
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.148	1.144	0.00	1.98
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.148	1.144	0.00	1.80
35.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	22.270	0.148	1.144	0.00	90.96
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.148	1.144	0.00	1.62
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.905	0.151	1.154	0.00	29.52
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.905	0.151	1.154	0.00	29.52
40.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.151	1.154	0.00	9.66
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.151	1.154	0.00	1.98
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.151	1.154	0.00	1.80
40.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	22.905	0.151	1.154	0.00	90.96
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.151	1.154	0.00	1.62
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	23.480	0.155	1.164	0.00	29.52
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	23.480	0.155	1.164	0.00	29.52

Pole :	302466			**Code:**	ANSI/TIA-222 Rev G							3/19/2014 6:59:23 PM
Location :	West Service Road, CT			**Struct Class :**	II							
Height :	147.9 (ft)			**Exposure Category :**	C							**Page:** 7
Base Dia :	56.58 (in)			**Topographic Category :**	1							
Top Dia :	26.21 (in)			**Base Elev :**	0.000 (ft)							
Shape :	18 Sides											
Taper :	0.214565 (in/ft)											



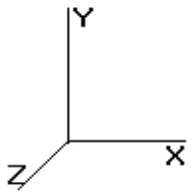
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 23 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

45.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.155	1.164	0.00	9.66
45.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.155	1.164	0.00	1.98
45.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.155	1.164	0.00	1.80
45.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	23.480	0.155	1.164	0.00	90.96
45.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.155	1.164	0.00	1.62
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	23.679	0.157	1.172	0.00	10.82
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	23.679	0.157	1.172	0.00	10.82
46.83	(1) 1 5/8" Fiber	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.157	1.172	0.00	3.54
46.83	(1) 7/8" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.157	1.172	0.00	0.73
46.83	(2) 1/2" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.157	1.172	0.00	0.66
46.83	(2) 3" Conduit	Yes	1.83	0.000	3.50	0.53	0.00	23.679	0.157	1.172	0.00	33.35
46.83	(6) 5/16" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.157	1.172	0.00	0.59
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	24.007	0.159	1.177	0.00	18.69
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	24.007	0.159	1.177	0.00	18.69
50.00	(1) 1 5/8" Fiber	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.159	1.177	0.00	6.12
50.00	(1) 7/8" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.159	1.177	0.00	1.25
50.00	(2) 1/2" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.159	1.177	0.00	1.14
50.00	(2) 3" Conduit	Yes	3.17	0.000	3.50	0.92	0.00	24.007	0.159	1.177	0.00	57.61
50.00	(6) 5/16" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.159	1.177	0.00	1.03
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	0.50	0.00	24.303	0.161	1.184	0.00	17.71
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	0.50	0.00	24.303	0.161	1.184	0.00	17.71
53.00	(1) 1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.161	1.184	0.00	5.80
53.00	(1) 7/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.161	1.184	0.00	1.19
53.00	(2) 1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.161	1.184	0.00	1.08
53.00	(2) 3" Conduit	Yes	3.00	0.000	3.50	0.88	0.00	24.303	0.161	1.184	0.00	54.58
53.00	(6) 5/16" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.161	1.184	0.00	0.97
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	24.494	0.161	1.182	0.00	11.81
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	24.494	0.161	1.182	0.00	11.81
55.00	(1) 1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.161	1.182	0.00	3.86
55.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.161	1.182	0.00	0.79
55.00	(2) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.161	1.182	0.00	0.72
55.00	(2) 3" Conduit	Yes	2.00	0.000	3.50	0.58	0.00	24.494	0.161	1.182	0.00	36.38
55.00	(6) 5/16" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.161	1.182	0.00	0.65
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	24.946	0.163	1.190	0.00	29.52
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	24.946	0.163	1.190	0.00	29.52
60.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.163	1.190	0.00	9.66
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.163	1.190	0.00	1.98
60.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.163	1.190	0.00	1.80
60.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	24.946	0.163	1.190	0.00	90.96
60.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.163	1.190	0.00	1.62
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.370	0.167	1.202	0.00	29.52
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.370	0.167	1.202	0.00	29.52
65.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.167	1.202	0.00	9.66
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.167	1.202	0.00	1.98
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.167	1.202	0.00	1.80
65.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	25.370	0.167	1.202	0.00	90.96
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.167	1.202	0.00	1.62
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.769	0.171	1.214	0.00	29.52
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.769	0.171	1.214	0.00	29.52
70.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.171	1.214	0.00	9.66
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.171	1.214	0.00	1.98
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.171	1.214	0.00	1.80
70.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	25.769	0.171	1.214	0.00	90.96
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.171	1.214	0.00	1.62
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.146	0.176	1.228	0.00	29.52
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.146	0.176	1.228	0.00	29.52
75.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.176	1.228	0.00	9.66

Pole :	302466			Code:	ANSI/TIA-222 Rev G						3/19/2014 6:59:23 PM	
Location :	West Service Road, CT			Struct Class :	II						Page: 8	
Height :	147.9 (ft)			Exposure Category :	C							
Base Dia :	56.58 (in)			Topographic Category :	1							
Top Dia :	26.21 (in)			Base Elev :	0.000 (ft)							
Shape :	18 Sides											
Taper :	0.214565 (in/ft)											



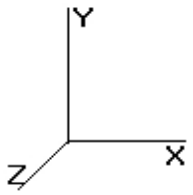
Load Case: 1.2D + 1.6W — 95.00 mph with No Ice — 23 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.176	1.228	0.00	1.98
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.176	1.228	0.00	1.80
75.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	26.146	0.176	1.228	0.00	90.96
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.176	1.228	0.00	1.62
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.504	0.181	1.242	0.00	29.52
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.504	0.181	1.242	0.00	29.52
80.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.181	1.242	0.00	9.66
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.181	1.242	0.00	1.98
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.181	1.242	0.00	1.80
80.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	26.504	0.181	1.242	0.00	90.96
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.181	1.242	0.00	1.62
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.844	0.185	1.256	0.00	29.52
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.844	0.185	1.256	0.00	29.52
85.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.185	1.256	0.00	9.66
85.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.185	1.256	0.00	1.98
85.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.185	1.256	0.00	1.80
85.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	26.844	0.185	1.256	0.00	90.96
85.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.185	1.256	0.00	1.62
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.169	0.191	1.272	0.00	29.52
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.169	0.191	1.272	0.00	29.52
90.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.191	1.272	0.00	9.66
90.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.191	1.272	0.00	1.98
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.191	1.272	0.00	1.80
90.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	27.169	0.191	1.272	0.00	90.96
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.191	1.272	0.00	1.62
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	0.81	0.00	27.475	0.104	1.012	0.00	29.02
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	0.81	0.00	27.475	0.104	1.012	0.00	29.02
94.92	(1) 1 5/8" Fiber	Yes	4.92	0.000	0.00	0.00	0.00	27.475	0.104	1.012	0.00	9.50
94.92	(1) 7/8" Coax	Yes	4.92	0.000	0.00	0.00	0.00	27.475	0.104	1.012	0.00	1.95
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	27.480	0.106	1.017	0.00	0.49
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	27.480	0.106	1.017	0.00	0.49
95.00	(1) 1 5/8" Fiber	Yes	0.08	0.000	0.00	0.00	0.00	27.480	0.106	1.017	0.00	0.16
95.00	(1) 7/8" Coax	Yes	0.08	0.000	0.00	0.00	0.00	27.480	0.106	1.017	0.00	0.03
97.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	27.601	0.106	1.019	0.00	11.81
97.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	27.601	0.106	1.019	0.00	11.81
97.00	(1) 1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	27.601	0.106	1.019	0.00	3.86
97.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	27.601	0.106	1.019	0.00	0.79
99.83	(6) 1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	27.769	0.108	1.023	0.00	16.73
99.83	(6) 1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	27.769	0.108	1.023	0.00	16.73
99.83	(1) 1 5/8" Fiber	Yes	2.83	0.000	0.00	0.00	0.00	27.769	0.108	1.023	0.00	5.47
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	27.779	0.107	1.020	0.00	0.98
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	27.779	0.107	1.020	0.00	0.98
100.0	(1) 1 5/8" Fiber	Yes	0.17	0.000	0.00	0.00	0.00	27.779	0.107	1.020	0.00	0.32
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.066	0.108	1.025	0.00	29.52
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.066	0.108	1.025	0.00	29.52
105.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.066	0.108	1.025	0.00	9.66
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.342	0.112	1.035	0.00	29.52
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.342	0.112	1.035	0.00	29.52
110.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.342	0.112	1.035	0.00	9.66
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.608	0.115	1.046	0.00	29.52
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.608	0.115	1.046	0.00	29.52
115.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.608	0.115	1.046	0.00	9.66
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.866	0.119	1.057	0.00	29.52
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.866	0.119	1.057	0.00	29.52
120.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.866	0.119	1.057	0.00	9.66
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.115	0.123	1.069	0.00	29.52
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.115	0.123	1.069	0.00	29.52

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



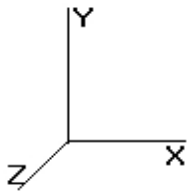
Load Case: **1.2D + 1.6W** **95.00 mph with No Ice** **23 Iterations**

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

125.0	**(1) 1 5/8" Fiber**	**Yes**	**5.00**	**0.000**	**0.00**	**0.00**	**0.00**	**29.115**	**0.123**	**1.069**	**0.00**	**9.66**
										Totals:	**0.00**	**3,289.52**

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	**3/19/2014 6:59:24 PM**
Height :	**147.9 (ft)**	**Exposure Category : C**	**Page: 10**
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



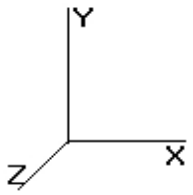
Load Case: **1.2D + 1.6W** **95.00 mph with No Ice** **23 Iterations**

Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**
Dead Load Factor : 1.20
Wind Load Factor : 1.60

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	506.08	1,352.74	0.00	0.00
10.00	546.50	1,691.38	0.00	0.00
15.00	539.71	1,665.31	0.00	0.00
20.00	565.46	1,639.24	0.00	0.00
25.00	585.12	1,613.17	0.00	0.00
30.00	600.18	1,587.10	0.00	0.00
35.00	611.88	1,561.03	0.00	0.00
40.00	621.00	1,534.96	0.00	0.00
45.00	628.06	1,508.89	0.00	0.00
46.83	230.08	546.73	0.00	0.00
50.00	406.65	1,652.75	0.00	0.00
53.00	386.77	1,546.47	0.00	0.00
55.00	256.36	586.86	0.00	0.00
60.00	646.41	1,448.91	0.00	0.00
65.00	648.17	1,422.84	0.00	0.00
70.00	649.00	1,396.77	0.00	0.00
75.00	648.99	1,370.70	0.00	0.00
80.00	648.23	1,344.63	0.00	0.00
85.00	646.80	1,318.56	0.00	0.00
90.00	1,890.33	2,283.93	0.00	0.00
94.92	496.19	1,152.72	0.00	0.00
95.00	8.47	31.90	0.00	0.00
97.00	651.74	973.37	0.00	711.88
99.83	287.05	1,064.69	0.00	0.00
100.0	16.70	33.38	0.00	0.00
105.0	500.89	990.25	0.00	0.00
110.0	495.52	968.52	0.00	0.00
115.0	4,400.19	3,177.60	0.00	0.00
120.0	483.70	828.73	0.00	0.00
125.0	2,775.48	2,338.80	0.00	0.00
130.0	434.76	716.58	0.00	0.00
135.0	422.87	694.86	0.00	0.00
136.0	1,972.55	2,152.37	0.00	1,584.93
140.0	327.27	501.35	0.00	0.00
145.0	398.08	607.13	0.00	0.00
147.9	2,098.18	828.18	0.00	3,934.37
147.9	2,258.99	2,401.79	0.00	4,702.74
Totals:	**30,290.39**	**48,535.24**	**0.00**	**10,933.92**

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	**3/19/2014 6:59:24 PM**
Location :	**West Service Road, CT**	**Struct Class : II**	**Page: 11**
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



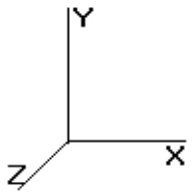
Load Case: **1.2D + 1.6W** **95.00 mph with No Ice** **23 Iterations**

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-48.49	-30.36	0.00	-3,053.71	0.00	3,053.71	4,345.86	2,172.93	10,048.4	5,031.69	0.00	0.00	0.618
5.00	-47.06	-29.98	0.00	-2,901.91	0.00	2,901.91	4,297.95	2,148.97	9,746.71	4,880.60	0.09	-0.16	0.606
10.00	-45.29	-29.56	0.00	-2,752.01	0.00	2,752.01	4,248.67	2,124.33	9,446.21	4,730.12	0.34	-0.32	0.593
15.00	-43.54	-29.13	0.00	-2,604.23	0.00	2,604.23	4,198.03	2,099.01	9,147.11	4,580.35	0.76	-0.48	0.579
20.00	-41.83	-28.66	0.00	-2,458.61	0.00	2,458.61	4,146.02	2,073.01	8,849.60	4,431.38	1.35	-0.64	0.565
25.00	-40.14	-28.17	0.00	-2,315.30	0.00	2,315.30	4,092.65	2,046.33	8,553.86	4,283.29	2.10	-0.80	0.551
30.00	-38.49	-27.65	0.00	-2,174.45	0.00	2,174.45	4,037.92	2,018.96	8,260.07	4,136.18	3.03	-0.96	0.535
35.00	-36.86	-27.12	0.00	-2,036.18	0.00	2,036.18	3,981.82	1,990.91	7,968.42	3,990.13	4.12	-1.12	0.520
40.00	-35.27	-26.56	0.00	-1,900.60	0.00	1,900.60	3,924.36	1,962.18	7,679.09	3,845.25	5.39	-1.29	0.503
45.00	-33.72	-25.96	0.00	-1,767.78	0.00	1,767.78	3,865.54	1,932.77	7,392.25	3,701.62	6.82	-1.45	0.486
46.83	-33.15	-25.77	0.00	-1,720.18	0.00	1,720.18	3,843.63	1,921.82	7,287.74	3,649.29	7.39	-1.51	0.480
50.00	-31.46	-25.37	0.00	-1,638.58	0.00	1,638.58	3,805.35	1,902.68	7,108.10	3,559.33	8.42	-1.61	0.469
53.00	-29.89	-24.98	0.00	-1,562.47	0.00	1,562.47	3,811.38	1,905.69	7,136.13	3,573.37	9.47	-1.70	0.445
55.00	-29.27	-24.76	0.00	-1,512.51	0.00	1,512.51	3,786.98	1,893.49	7,023.14	3,516.79	10.19	-1.77	0.438
60.00	-27.78	-24.14	0.00	-1,388.70	0.00	1,388.70	3,725.01	1,862.51	6,742.74	3,376.38	12.13	-1.92	0.419
65.00	-26.32	-23.51	0.00	-1,268.00	0.00	1,268.00	3,661.69	1,830.84	6,465.44	3,237.53	14.22	-2.07	0.399
70.00	-24.89	-22.87	0.00	-1,150.45	0.00	1,150.45	3,597.00	1,798.50	6,191.43	3,100.31	16.46	-2.21	0.378
75.00	-23.49	-22.23	0.00	-1,036.09	0.00	1,036.09	3,530.95	1,765.47	5,920.87	2,964.83	18.85	-2.35	0.356
80.00	-22.13	-21.57	0.00	-924.96	0.00	924.96	3,463.53	1,731.77	5,653.95	2,831.18	21.38	-2.49	0.333
85.00	-20.79	-20.91	0.00	-817.10	0.00	817.10	3,394.75	1,697.38	5,390.86	2,699.44	24.05	-2.62	0.309
90.00	-18.56	-18.96	0.00	-712.53	0.00	712.53	3,324.61	1,662.30	5,131.78	2,569.70	26.86	-2.74	0.283
94.92	-17.41	-18.42	0.00	-619.32	0.00	619.32	3,235.43	1,617.71	4,852.78	2,430.00	29.74	-2.86	0.260
95.00	-17.37	-18.42	0.00	-617.79	0.00	617.79	3,233.85	1,616.92	4,848.02	2,427.61	29.79	-2.86	0.260
97.00	-16.42	-17.74	0.00	-580.23	0.00	580.23	3,195.90	1,597.95	4,734.34	2,370.69	31.00	-2.91	0.250
99.83	-15.36	-17.40	0.00	-529.98	0.00	529.98	2,561.72	1,280.86	3,809.83	1,907.74	32.75	-2.97	0.284
100.00	-15.31	-17.40	0.00	-527.08	0.00	527.08	2,559.96	1,279.98	3,803.41	1,904.53	32.85	-2.97	0.283
105.00	-14.31	-16.88	0.00	-440.07	0.00	440.07	2,506.38	1,253.19	3,612.46	1,808.91	36.02	-3.09	0.249
110.00	-13.34	-16.35	0.00	-355.68	0.00	355.68	2,451.43	1,225.72	3,424.36	1,714.72	39.31	-3.19	0.213
115.00	-10.40	-11.79	0.00	-273.92	0.00	273.92	2,395.12	1,197.56	3,239.30	1,622.06	42.71	-3.28	0.173
120.00	-9.59	-11.28	0.00	-214.95	0.00	214.95	2,337.45	1,168.73	3,057.46	1,531.00	46.19	-3.36	0.145
125.00	-7.41	-8.37	0.00	-158.57	0.00	158.57	2,271.20	1,135.60	2,869.91	1,437.09	49.74	-3.43	0.114
130.00	-6.72	-7.90	0.00	-116.70	0.00	116.70	2,192.15	1,096.07	2,672.63	1,338.30	53.36	-3.48	0.090
135.00	-6.04	-7.44	0.00	-77.18	0.00	77.18	2,113.09	1,056.55	2,482.37	1,243.03	57.02	-3.52	0.065
136.00	-4.02	-5.34	0.00	-68.16	0.00	68.16	2,097.28	1,048.64	2,445.16	1,224.40	57.76	-3.53	0.058
140.00	-3.53	-4.98	0.00	-46.79	0.00	46.79	2,034.04	1,017.02	2,299.14	1,151.28	60.72	-3.55	0.042
145.00	-2.95	-4.55	0.00	-21.87	0.00	21.87	1,954.98	977.49	2,122.94	1,063.05	64.45	-3.57	0.022
147.90	-2.26	-2.40	0.00	-4.74	0.00	4.74	1,909.13	954.57	2,023.96	1,013.48	66.62	-3.57	0.006
147.92	0.00	-2.26	0.00	-4.70	0.00	4.70	1,908.86	954.43	2,023.38	1,013.20	66.63	-3.57	0.005

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



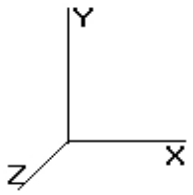
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 23 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)		Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	18.656	20.52	419.33		0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	18.656	20.52	411.38		0.650	0.000	5.00	23.712	15.41	506.1	0.0	1,014.6
10.00		1.00	0.85	18.656	20.52	403.43		0.650 *	0.000	5.00	23.258	15.12	496.4	0.0	995.0
15.00		1.00	0.85	18.656	20.52	395.48		0.650 *	0.000	5.00	22.804	14.82	486.7	0.0	975.5
20.00		1.00	0.90	19.795	21.77	399.18		0.650 *	0.000	5.00	22.350	14.53	506.1	0.0	955.9
25.00		1.00	0.94	20.747	22.82	400.28		0.650 *	0.000	5.00	21.896	14.23	519.7	0.0	936.3
30.00		1.00	0.98	21.559	23.71	399.49		0.650 *	0.000	5.00	21.442	13.94	528.8	0.0	916.8
35.00		1.00	1.01	22.270	24.49	397.34		0.650 *	0.000	5.00	20.988	13.64	534.7	0.0	897.2
40.00		1.00	1.04	22.905	25.19	394.15		0.650 *	0.000	5.00	20.534	13.35	538.1	0.0	877.7
45.00		1.00	1.07	23.480	25.82	390.15		0.650 *	0.000	5.00	20.080	13.05	539.4	0.0	858.1
46.83	Bot - Section 2	1.00	1.07	23.679	26.04	388.51		0.650 *	0.000	1.83	7.249	4.71	196.4	0.0	309.8
50.00		1.00	1.09	24.007	26.40	385.48		0.650 *	0.000	3.17	12.578	8.18	345.5	0.0	1,066.3
53.00	Top - Section 1	1.00	1.10	24.303	26.73	382.41		0.650 *	0.000	3.00	11.748	7.64	326.6	0.0	995.7
55.00		1.00	1.11	24.494	26.94	386.63		0.650 *	0.000	2.00	7.741	5.03	216.9	0.0	330.7
60.00		1.00	1.13	24.946	27.44	380.99		0.650 *	0.000	5.00	19.036	12.37	543.3	0.0	813.2
65.00		1.00	1.15	25.370	27.90	374.94		0.650 *	0.000	5.00	18.582	12.08	539.3	0.0	793.6
70.00		1.00	1.17	25.769	28.34	368.53		0.650 *	0.000	5.00	18.128	11.78	534.4	0.0	774.0
75.00		1.00	1.19	26.146	28.76	361.81		0.650 *	0.000	5.00	17.674	11.49	528.7	0.0	754.5
80.00		1.00	1.20	26.504	29.15	354.80		0.650 *	0.000	5.00	17.220	11.19	522.1	0.0	734.9
85.00		1.00	1.22	26.844	29.52	347.53		0.650 *	0.000	5.00	16.766	10.90	514.9	0.0	715.4
90.00	Appertunance(s)	1.00	1.23	27.169	29.88	340.03		0.650 *	0.000	5.00	16.313	10.60	507.0	0.0	695.8
94.92	Bot - Section 3	1.00	1.25	27.475	30.22	332.45		0.650 *	0.000	4.92	15.598	10.14	490.3	0.0	665.2
95.00		1.00	1.25	27.480	30.22	332.32		0.650 *	0.000	0.08	0.265	0.17	8.3	0.0	20.5
97.00	Appertunance(s)	1.00	1.25	27.601	30.36	329.18		0.650 *	0.000	2.00	6.322	4.11	199.6	0.0	490.1
99.83	Top - Section 2	1.00	1.26	27.769	30.54	324.69		0.650 *	0.000	2.83	8.832	5.74	280.6	0.0	684.5
100.0		1.00	1.26	27.779	30.55	330.07		0.650 *	0.000	0.17	0.515	0.33	16.4	0.0	18.3
105.0		1.00	1.27	28.066	30.87	322.02		0.650 *	0.000	5.00	15.215	9.89	488.5	0.0	541.4
110.0		1.00	1.29	28.342	31.17	313.80		0.650 *	0.000	5.00	14.761	9.59	478.6	0.0	525.1
115.0	Appertunance(s)	1.00	1.30	28.608	31.46	305.43		0.650 *	0.000	5.00	14.307	9.30	468.3	0.0	508.8
120.0		1.00	1.31	28.866	31.75	296.91		0.650 *	0.000	5.00	13.854	9.00	457.5	0.0	492.5
125.0	Appertunance(s)	1.00	1.32	29.115	32.02	288.25		0.650 *	0.000	5.00	13.400	8.71	446.3	0.0	476.3
130.0		1.00	1.33	29.356	32.29	279.47		0.650	0.000	5.00	12.946	8.41	434.8	0.0	460.0
135.0		1.00	1.34	29.591	32.55	270.57		0.650	0.000	5.00	12.492	8.12	422.9	0.0	443.7
136.0	Appertunance(s)	1.00	1.35	29.637	32.60	268.78		0.650	0.000	1.00	2.444	1.59	82.9	0.0	86.8
140.0		1.00	1.35	29.818	32.80	261.56		0.650	0.000	4.00	9.594	6.24	327.3	0.0	340.6
145.0		1.00	1.36	30.039	33.04	252.43		0.650	0.000	5.00	11.584	7.53	398.1	0.0	411.1
147.9	Appertunance(s)	1.00	1.37	30.165	33.18	247.10		0.650	0.000	2.90	6.511	4.23	224.7	0.0	231.0
147.9	Appertunance(s)	1.00	1.37	30.165	33.18	247.07		0.650	0.000	0.02	0.038	0.02	1.3	0.0	1.3
* = Cf Adjusted By Linear Load Ra Effect							Totals:			147.92			14,657.3	0.0	22,808.3

Pole :	302466	Code: ANSI/TIA-222 Rev G	3/19/2014 6:59:24 PM
Location :	West Service Road, CT	Struct Class : II	Page: 13
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 23 Iterations

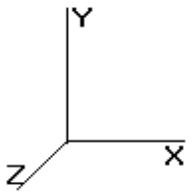
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
90.00	DragonWave A-ANT-	2	27.169	29.886	1.00	0.80	7.50	0.000	0.000	358.83	0.00	0.00	48.78
90.00	DragonWave Horizon	2	27.169	29.886	0.50	0.80	0.34	0.000	0.000	16.45	0.00	0.00	19.08
90.00	Argus LLPX310R	3	27.169	29.886	0.73	0.80	7.52	0.000	0.000	359.41	0.00	0.00	77.22
90.00	NextNet BTS-2500	3	27.169	29.886	0.50	0.80	2.18	0.000	0.000	104.43	0.00	0.00	94.50
90.00	Side Arms	1	27.169	29.886	1.00	1.00	8.50	0.000	0.000	406.45	0.00	0.00	504.00
97.00	Antel BCD-87010_25	1	27.895	30.684	1.00	1.00	2.90	0.000	5.000	142.38	0.00	711.88	23.85
97.00	Stand Off	1	27.601	30.361	1.00	1.00	6.30	0.000	0.000	306.04	0.00	0.00	135.00
115.0	Flat Low Profile Pla	1	28.608	31.469	1.00	1.00	26.10	0.000	0.000	1,314.15	0.00	0.00	1,350.00
115.0	Antel BXA-171063-12B	1	28.608	31.469	0.88	0.80	3.33	0.000	0.000	167.66	0.00	0.00	13.50
115.0	Antel BXA-171063-8BF	2	28.608	31.469	0.87	0.80	4.09	0.000	0.000	206.06	0.00	0.00	18.90
115.0	RFS DB-T1-6Z-8AB-0Z	1	28.608	31.469	0.67	0.80	2.57	0.000	0.000	129.54	0.00	0.00	39.60
115.0	Alcatel-Lucent RRH2x	3	28.608	31.469	0.67	0.80	3.47	0.000	0.000	174.88	0.00	0.00	118.80
115.0	Antel BXA-171063-12C	3	28.608	31.469	0.88	0.80	10.12	0.000	0.000	509.37	0.00	0.00	40.50
115.0	Antel BXA-70063-6CF-	6	28.608	31.469	0.77	0.80	27.98	0.000	0.000	1,408.75	0.00	0.00	91.80
125.0	Flat T-Arm	3	29.115	32.026	0.67	0.75	19.45	0.000	0.000	996.50	0.00	0.00	675.00
125.0	Ericsson KRY 112 144	3	29.115	32.026	0.50	0.80	0.49	0.000	0.000	25.21	0.00	0.00	29.70
125.0	Ericsson AIR 21, 1.3	3	29.115	32.026	0.86	0.80	12.49	0.000	0.000	639.87	0.00	0.00	224.10
125.0	Ericsson AIR 21, 1.3	3	29.115	32.026	0.85	0.80	12.42	0.000	0.000	636.61	0.00	0.00	220.05
136.0	Flat Low Profile Pla	1	29.637	32.600	1.00	1.00	26.10	0.000	0.000	1,361.38	0.00	0.00	1,350.00
136.0	48" x 4" Panels	9	29.773	32.750	0.67	0.80	10.08	0.000	3.000	528.31	0.00	1,584.93	162.00
147.9	48" x 12" Panels	9	30.254	33.280	0.67	0.75	22.93	0.000	2.100	1,220.91	0.00	2,563.92	243.00
147.9	72" x 12" Panels	3	30.254	33.280	0.67	0.75	12.26	0.000	2.100	652.60	0.00	1,370.46	121.50
150.0	Flat Platform w/ Han	1	30.254	33.280	1.00	1.00	42.40	0.000	0.000	2,257.68	0.00	4,702.74	1,800.00
										13,923.49			7,400.88

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



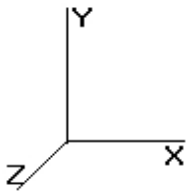
Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 23 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.134	1.101	0.00	22.14
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.134	1.101	0.00	22.14
10.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.134	1.101	0.00	7.24
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.134	1.101	0.00	1.49
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.134	1.101	0.00	1.35
10.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	18.656	0.134	1.101	0.00	68.22
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.134	1.101	0.00	1.22
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.136	1.109	0.00	22.14
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	18.656	0.136	1.109	0.00	22.14
15.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.136	1.109	0.00	7.24
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.136	1.109	0.00	1.49
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.136	1.109	0.00	1.35
15.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	18.656	0.136	1.109	0.00	68.22
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	18.656	0.136	1.109	0.00	1.22
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	19.795	0.139	1.117	0.00	22.14
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	19.795	0.139	1.117	0.00	22.14
20.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.139	1.117	0.00	7.24
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.139	1.117	0.00	1.49
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.139	1.117	0.00	1.35
20.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	19.795	0.139	1.117	0.00	68.22
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	19.795	0.139	1.117	0.00	1.22
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.747	0.142	1.126	0.00	22.14
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.747	0.142	1.126	0.00	22.14
25.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.142	1.126	0.00	7.24
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.142	1.126	0.00	1.49
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.142	1.126	0.00	1.35
25.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	20.747	0.142	1.126	0.00	68.22
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.747	0.142	1.126	0.00	1.22
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.559	0.145	1.135	0.00	22.14
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.559	0.145	1.135	0.00	22.14
30.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.145	1.135	0.00	7.24
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.145	1.135	0.00	1.49
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.145	1.135	0.00	1.35
30.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	21.559	0.145	1.135	0.00	68.22
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.559	0.145	1.135	0.00	1.22
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.270	0.148	1.144	0.00	22.14
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.270	0.148	1.144	0.00	22.14
35.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.148	1.144	0.00	7.24
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.148	1.144	0.00	1.49
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.148	1.144	0.00	1.35
35.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	22.270	0.148	1.144	0.00	68.22
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.270	0.148	1.144	0.00	1.22
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.905	0.151	1.154	0.00	22.14
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.905	0.151	1.154	0.00	22.14
40.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.151	1.154	0.00	7.24
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.151	1.154	0.00	1.49
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.151	1.154	0.00	1.35
40.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	22.905	0.151	1.154	0.00	68.22
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.905	0.151	1.154	0.00	1.22
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	23.480	0.155	1.164	0.00	22.14
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	23.480	0.155	1.164	0.00	22.14

Pole :	302466			Code:	ANSI/TIA-222 Rev G						3/19/2014 6:59:24 PM	
Location :	West Service Road, CT			Struct Class :	II						Page:	15
Height :	147.9 (ft)			Exposure Category :	C							
Base Dia :	56.58 (in)			Topographic Category :	1							
Top Dia :	26.21 (in)			Base Elev :	0.000 (ft)							
Shape :	18 Sides											
Taper :	0.214565 (in/ft)											

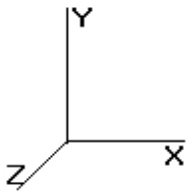


Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 23 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

45.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.155	1.164	0.00	7.24
45.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.155	1.164	0.00	1.49
45.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.155	1.164	0.00	1.35
45.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	23.480	0.155	1.164	0.00	68.22
45.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	23.480	0.155	1.164	0.00	1.22
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	23.679	0.157	1.172	0.00	8.12
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	23.679	0.157	1.172	0.00	8.12
46.83	(1) 1 5/8" Fiber	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.157	1.172	0.00	2.66
46.83	(1) 7/8" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.157	1.172	0.00	0.54
46.83	(2) 1/2" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.157	1.172	0.00	0.50
46.83	(2) 3" Conduit	Yes	1.83	0.000	3.50	0.53	0.00	23.679	0.157	1.172	0.00	25.01
46.83	(6) 5/16" Coax	Yes	1.83	0.000	0.00	0.00	0.00	23.679	0.157	1.172	0.00	0.45
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	24.007	0.159	1.177	0.00	14.02
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	24.007	0.159	1.177	0.00	14.02
50.00	(1) 1 5/8" Fiber	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.159	1.177	0.00	4.59
50.00	(1) 7/8" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.159	1.177	0.00	0.94
50.00	(2) 1/2" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.159	1.177	0.00	0.85
50.00	(2) 3" Conduit	Yes	3.17	0.000	3.50	0.92	0.00	24.007	0.159	1.177	0.00	43.21
50.00	(6) 5/16" Coax	Yes	3.17	0.000	0.00	0.00	0.00	24.007	0.159	1.177	0.00	0.77
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	0.50	0.00	24.303	0.161	1.184	0.00	13.28
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	0.50	0.00	24.303	0.161	1.184	0.00	13.28
53.00	(1) 1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.161	1.184	0.00	4.35
53.00	(1) 7/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.161	1.184	0.00	0.89
53.00	(2) 1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.161	1.184	0.00	0.81
53.00	(2) 3" Conduit	Yes	3.00	0.000	3.50	0.88	0.00	24.303	0.161	1.184	0.00	40.93
53.00	(6) 5/16" Coax	Yes	3.00	0.000	0.00	0.00	0.00	24.303	0.161	1.184	0.00	0.73
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	24.494	0.161	1.182	0.00	8.85
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	24.494	0.161	1.182	0.00	8.85
55.00	(1) 1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.161	1.182	0.00	2.90
55.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.161	1.182	0.00	0.59
55.00	(2) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.161	1.182	0.00	0.54
55.00	(2) 3" Conduit	Yes	2.00	0.000	3.50	0.58	0.00	24.494	0.161	1.182	0.00	27.29
55.00	(6) 5/16" Coax	Yes	2.00	0.000	0.00	0.00	0.00	24.494	0.161	1.182	0.00	0.49
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	24.946	0.163	1.190	0.00	22.14
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	24.946	0.163	1.190	0.00	22.14
60.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.163	1.190	0.00	7.24
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.163	1.190	0.00	1.49
60.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.163	1.190	0.00	1.35
60.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	24.946	0.163	1.190	0.00	68.22
60.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.946	0.163	1.190	0.00	1.22
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.370	0.167	1.202	0.00	22.14
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.370	0.167	1.202	0.00	22.14
65.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.167	1.202	0.00	7.24
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.167	1.202	0.00	1.49
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.167	1.202	0.00	1.35
65.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	25.370	0.167	1.202	0.00	68.22
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.370	0.167	1.202	0.00	1.22
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.769	0.171	1.214	0.00	22.14
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.769	0.171	1.214	0.00	22.14
70.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.171	1.214	0.00	7.24
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.171	1.214	0.00	1.49
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.171	1.214	0.00	1.35
70.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	25.769	0.171	1.214	0.00	68.22
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.769	0.171	1.214	0.00	1.22
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.146	0.176	1.228	0.00	22.14
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.146	0.176	1.228	0.00	22.14
75.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.176	1.228	0.00	7.24

Pole :	302466			Code:	ANSI/TIA-222 Rev G						3/19/2014 6:59:24 PM	
Location :	West Service Road, CT			Struct Class :	II						Page:	16
Height :	147.9 (ft)			Exposure Category :	C							
Base Dia :	56.58 (in)			Topographic Category :	1							
Top Dia :	26.21 (in)			Base Elev :	0.000 (ft)							
Shape :	18 Sides											
Taper :	0.214565 (in/ft)											

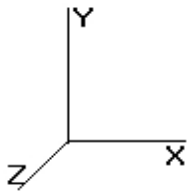


Load Case: 0.9D + 1.6W — 95.00 mph with No Ice (Reduced DL) — 23 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.176	1.228	0.00	1.49
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.176	1.228	0.00	1.35
75.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	26.146	0.176	1.228	0.00	68.22
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.146	0.176	1.228	0.00	1.22
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.504	0.181	1.242	0.00	22.14
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.504	0.181	1.242	0.00	22.14
80.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.181	1.242	0.00	7.24
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.181	1.242	0.00	1.49
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.181	1.242	0.00	1.35
80.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	26.504	0.181	1.242	0.00	68.22
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.504	0.181	1.242	0.00	1.22
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.844	0.185	1.256	0.00	22.14
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.844	0.185	1.256	0.00	22.14
85.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.185	1.256	0.00	7.24
85.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.185	1.256	0.00	1.49
85.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.185	1.256	0.00	1.35
85.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	26.844	0.185	1.256	0.00	68.22
85.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.844	0.185	1.256	0.00	1.22
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.169	0.191	1.272	0.00	22.14
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.169	0.191	1.272	0.00	22.14
90.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.191	1.272	0.00	7.24
90.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.191	1.272	0.00	1.49
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.191	1.272	0.00	1.35
90.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	27.169	0.191	1.272	0.00	68.22
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.169	0.191	1.272	0.00	1.22
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	0.81	0.00	27.475	0.104	1.012	0.00	21.77
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	0.81	0.00	27.475	0.104	1.012	0.00	21.77
94.92	(1) 1 5/8" Fiber	Yes	4.92	0.000	0.00	0.00	0.00	27.475	0.104	1.012	0.00	7.12
94.92	(1) 7/8" Coax	Yes	4.92	0.000	0.00	0.00	0.00	27.475	0.104	1.012	0.00	1.46
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	27.480	0.106	1.017	0.00	0.37
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	27.480	0.106	1.017	0.00	0.37
95.00	(1) 1 5/8" Fiber	Yes	0.08	0.000	0.00	0.00	0.00	27.480	0.106	1.017	0.00	0.12
95.00	(1) 7/8" Coax	Yes	0.08	0.000	0.00	0.00	0.00	27.480	0.106	1.017	0.00	0.02
97.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	27.601	0.106	1.019	0.00	8.85
97.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	27.601	0.106	1.019	0.00	8.85
97.00	(1) 1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	27.601	0.106	1.019	0.00	2.90
97.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	27.601	0.106	1.019	0.00	0.59
99.83	(6) 1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	27.769	0.108	1.023	0.00	12.54
99.83	(6) 1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	27.769	0.108	1.023	0.00	12.54
99.83	(1) 1 5/8" Fiber	Yes	2.83	0.000	0.00	0.00	0.00	27.769	0.108	1.023	0.00	4.11
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	27.779	0.107	1.020	0.00	0.74
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	27.779	0.107	1.020	0.00	0.74
100.0	(1) 1 5/8" Fiber	Yes	0.17	0.000	0.00	0.00	0.00	27.779	0.107	1.020	0.00	0.24
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.066	0.108	1.025	0.00	22.14
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.066	0.108	1.025	0.00	22.14
105.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.066	0.108	1.025	0.00	7.24
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.342	0.112	1.035	0.00	22.14
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.342	0.112	1.035	0.00	22.14
110.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.342	0.112	1.035	0.00	7.24
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.608	0.115	1.046	0.00	22.14
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.608	0.115	1.046	0.00	22.14
115.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.608	0.115	1.046	0.00	7.24
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.866	0.119	1.057	0.00	22.14
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.866	0.119	1.057	0.00	22.14
120.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.866	0.119	1.057	0.00	7.24
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.115	0.123	1.069	0.00	22.14
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.115	0.123	1.069	0.00	22.14

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



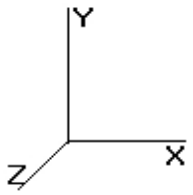
Load Case: **0.9D + 1.6W** **95.00 mph with No Ice (Reduced DL)** **23 Iterations**

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

125.0	**(1) 1 5/8" Fiber**	**Yes**	**5.00**	**0.000**	**0.00**	**0.00**	**0.00**	**29.115**	**0.123**	**1.069**	**0.00**	**7.24**
										Totals:	**0.00**	**2,467.14**

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	**3/19/2014 6:59:24 PM**
Height :	**147.9 (ft)**	**Exposure Category : C**	**Page: 18**
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



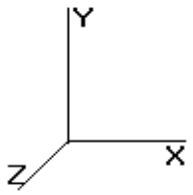
Load Case: **0.9D + 1.6W** — **95.00 mph with No Ice (Reduced DL)** — **23 Iterations**

Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	506.08	1,014.56	0.00	0.00
10.00	496.39	1,268.54	0.00	0.00
15.00	486.70	1,248.98	0.00	0.00
20.00	506.13	1,229.43	0.00	0.00
25.00	519.70	1,209.88	0.00	0.00
30.00	528.84	1,190.33	0.00	0.00
35.00	534.72	1,170.78	0.00	0.00
40.00	538.07	1,151.22	0.00	0.00
45.00	539.39	1,131.67	0.00	0.00
46.83	196.37	410.05	0.00	0.00
50.00	345.45	1,239.56	0.00	0.00
53.00	326.64	1,159.85	0.00	0.00
55.00	216.92	440.15	0.00	0.00
60.00	543.26	1,086.68	0.00	0.00
65.00	539.32	1,067.13	0.00	0.00
70.00	534.42	1,047.58	0.00	0.00
75.00	528.66	1,028.03	0.00	0.00
80.00	522.13	1,008.47	0.00	0.00
85.00	514.90	988.92	0.00	0.00
90.00	1,752.60	1,712.95	0.00	0.00
94.92	490.27	864.54	0.00	0.00
95.00	8.33	23.92	0.00	0.00
97.00	648.04	730.03	0.00	711.88
99.83	280.57	798.51	0.00	0.00
100.0	16.37	25.04	0.00	0.00
105.0	488.52	742.69	0.00	0.00
110.0	478.61	726.39	0.00	0.00
115.0	4,378.67	2,383.20	0.00	0.00
120.0	457.48	621.54	0.00	0.00
125.0	2,744.50	1,754.10	0.00	0.00
130.0	434.76	537.44	0.00	0.00
135.0	422.87	521.14	0.00	0.00
136.0	1,972.55	1,614.27	0.00	1,584.93
140.0	327.27	376.01	0.00	0.00
145.0	398.08	455.35	0.00	0.00
147.9	2,098.18	621.14	0.00	3,934.37
147.9	2,258.99	1,801.34	0.00	4,702.74
Totals:	**28,580.75**	**36,401.43**	**0.00**	**10,933.92**

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	**3/19/2014 6:59:24 PM**
Location :	**West Service Road, CT**	**Struct Class : II**	**Page: 19**
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



Load Case: **0.9D + 1.6W** **95.00 mph with No Ice (Reduced DL)** **23 Iterations**

Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-36.36	-28.63	0.00	-2,920.88	0.00	2,920.88	4,345.86	2,172.93	10,048.4	5,031.69	0.00	0.00	0.589
5.00	-35.27	-28.22	0.00	-2,777.73	0.00	2,777.73	4,297.95	2,148.97	9,746.71	4,880.60	0.08	-0.15	0.578
10.00	-33.93	-27.81	0.00	-2,636.65	0.00	2,636.65	4,248.67	2,124.33	9,446.21	4,730.12	0.32	-0.30	0.566
15.00	-32.61	-27.40	0.00	-2,497.62	0.00	2,497.62	4,198.03	2,099.01	9,147.11	4,580.35	0.73	-0.46	0.553
20.00	-31.32	-26.97	0.00	-2,360.63	0.00	2,360.63	4,146.02	2,073.01	8,849.60	4,431.38	1.29	-0.61	0.540
25.00	-30.04	-26.51	0.00	-2,225.81	0.00	2,225.81	4,092.65	2,046.33	8,553.86	4,283.29	2.01	-0.77	0.527
30.00	-28.79	-26.04	0.00	-2,093.24	0.00	2,093.24	4,037.92	2,018.96	8,260.07	4,136.18	2.90	-0.92	0.513
35.00	-27.56	-25.56	0.00	-1,963.02	0.00	1,963.02	3,981.82	1,990.91	7,968.42	3,990.13	3.95	-1.08	0.499
40.00	-26.35	-25.08	0.00	-1,835.20	0.00	1,835.20	3,924.36	1,962.18	7,679.09	3,845.25	5.17	-1.23	0.484
45.00	-25.18	-24.56	0.00	-1,709.83	0.00	1,709.83	3,865.54	1,932.77	7,392.25	3,701.62	6.54	-1.39	0.469
46.83	-24.75	-24.38	0.00	-1,664.81	0.00	1,664.81	3,843.63	1,921.82	7,287.74	3,649.29	7.09	-1.45	0.463
50.00	-23.48	-24.05	0.00	-1,587.59	0.00	1,587.59	3,805.35	1,902.68	7,108.10	3,559.33	8.08	-1.55	0.452
53.00	-22.29	-23.72	0.00	-1,515.46	0.00	1,515.46	3,811.38	1,905.69	7,136.13	3,573.37	9.09	-1.64	0.430
55.00	-21.82	-23.53	0.00	-1,468.02	0.00	1,468.02	3,786.98	1,893.49	7,023.14	3,516.79	9.79	-1.70	0.423
60.00	-20.69	-23.00	0.00	-1,350.39	0.00	1,350.39	3,725.01	1,862.51	6,742.74	3,376.38	11.65	-1.85	0.406
65.00	-19.59	-22.48	0.00	-1,235.38	0.00	1,235.38	3,661.69	1,830.84	6,465.44	3,237.53	13.66	-1.99	0.387
70.00	-18.51	-21.95	0.00	-1,123.00	0.00	1,123.00	3,597.00	1,798.50	6,191.43	3,100.31	15.82	-2.13	0.368
75.00	-17.45	-21.42	0.00	-1,013.25	0.00	1,013.25	3,530.95	1,765.47	5,920.87	2,964.83	18.13	-2.27	0.347
80.00	-16.41	-20.90	0.00	-906.14	0.00	906.14	3,463.53	1,731.77	5,653.95	2,831.18	20.58	-2.40	0.325
85.00	-15.40	-20.37	0.00	-801.65	0.00	801.65	3,394.75	1,697.38	5,390.86	2,699.44	23.16	-2.53	0.302
90.00	-13.73	-18.57	0.00	-699.78	0.00	699.78	3,324.61	1,662.30	5,131.78	2,569.70	25.87	-2.65	0.277
94.92	-12.88	-18.06	0.00	-608.46	0.00	608.46	3,235.43	1,617.71	4,852.78	2,430.00	28.67	-2.77	0.254
95.00	-12.84	-18.05	0.00	-606.95	0.00	606.95	3,233.85	1,616.92	4,848.02	2,427.61	28.71	-2.77	0.254
97.00	-12.13	-17.38	0.00	-570.14	0.00	570.14	3,195.90	1,597.95	4,734.34	2,370.69	29.88	-2.81	0.244
99.83	-11.34	-17.07	0.00	-520.89	0.00	520.89	2,561.72	1,280.86	3,809.83	1,907.74	31.57	-2.88	0.278
100.00	-11.29	-17.06	0.00	-518.05	0.00	518.05	2,559.96	1,279.98	3,803.41	1,904.53	31.67	-2.88	0.277
105.00	-10.55	-16.56	0.00	-432.74	0.00	432.74	2,506.38	1,253.19	3,612.46	1,808.91	34.75	-2.99	0.244
110.00	-9.82	-16.06	0.00	-349.96	0.00	349.96	2,451.43	1,225.72	3,424.36	1,714.72	37.94	-3.10	0.208
115.00	-7.66	-11.56	0.00	-269.68	0.00	269.68	2,395.12	1,197.56	3,239.30	1,622.06	41.23	-3.18	0.170
120.00	-7.06	-11.08	0.00	-211.86	0.00	211.86	2,337.45	1,168.73	3,057.46	1,531.00	44.61	-3.26	0.141
125.00	-5.45	-8.25	0.00	-156.46	0.00	156.46	2,271.20	1,135.60	2,869.91	1,437.09	48.06	-3.33	0.111
130.00	-4.94	-7.78	0.00	-115.23	0.00	115.23	2,192.15	1,096.07	2,672.63	1,338.30	51.57	-3.38	0.088
135.00	-4.44	-7.33	0.00	-76.31	0.00	76.31	2,113.09	1,056.55	2,482.37	1,243.03	55.12	-3.42	0.064
136.00	-2.94	-5.27	0.00	-67.39	0.00	67.39	2,097.28	1,048.64	2,445.16	1,224.40	55.84	-3.43	0.056
140.00	-2.59	-4.92	0.00	-46.32	0.00	46.32	2,034.04	1,017.02	2,299.14	1,151.28	58.72	-3.45	0.042
145.00	-2.15	-4.50	0.00	-21.72	0.00	21.72	1,954.98	977.49	2,122.94	1,063.05	62.34	-3.47	0.022
147.90	-1.66	-2.36	0.00	-4.74	0.00	4.74	1,909.13	954.57	2,023.96	1,013.48	64.45	-3.47	0.006
147.92	0.00	-2.26	0.00	-4.70	0.00	4.70	1,908.86	954.43	2,023.38	1,013.20	64.46	-3.47	0.005

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
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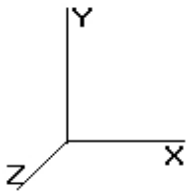

Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 22 Iterations

Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf		Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.168	5.685	0.000	1.200		0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.685	0.000	1.200		1.656	5.00	25.092	30.11	171.2	593.0	1,945.7
10.00		1.00	0.85	5.168	5.685	0.000	1.200	*	1.775	5.00	24.737	29.68	168.7	624.9	1,951.6
15.00		1.00	0.85	5.168	5.685	0.000	1.200	*	1.848	5.00	24.344	29.21	166.1	639.2	1,939.8
20.00		1.00	0.90	5.483	6.032	0.000	1.200	*	1.902	5.00	23.935	28.72	173.2	645.7	1,920.2
25.00		1.00	0.94	5.747	6.322	0.000	1.200	*	1.945	5.00	23.517	28.22	178.4	647.7	1,896.1
30.00		1.00	0.98	5.972	6.569	0.000	1.200	*	1.981	5.00	23.093	27.71	182.0	646.7	1,869.1
35.00		1.00	1.01	6.169	6.786	0.000	1.200	*	2.012	5.00	22.665	27.20	184.6	643.6	1,839.9
40.00		1.00	1.04	6.345	6.979	0.000	1.200	*	2.039	5.00	22.233	26.68	186.2	638.9	1,809.2
45.00		1.00	1.07	6.504	7.155	0.000	1.200	*	2.063	5.00	21.800	26.16	187.2	632.9	1,777.1
46.83	Bot - Section 2	1.00	1.07	6.559	7.215	0.000	1.200	*	2.071	1.83	7.882	9.46	68.2	231.2	644.2
50.00		1.00	1.09	6.650	7.315	0.000	1.200	*	2.085	3.17	13.679	16.41	120.1	402.6	1,824.4
53.00	Top - Section 1	1.00	1.10	6.732	7.405	0.000	1.200	*	2.097	3.00	12.797	15.36	113.7	378.7	1,706.3
55.00		1.00	1.11	6.785	7.463	0.000	1.200	*	2.105	2.00	8.443	10.13	75.6	251.1	692.1
60.00		1.00	1.13	6.910	7.601	0.000	1.200	*	2.123	5.00	20.805	24.97	189.8	619.3	1,703.5
65.00		1.00	1.15	7.028	7.731	0.000	1.200	*	2.140	5.00	20.366	24.44	188.9	610.1	1,668.3
70.00		1.00	1.17	7.138	7.852	0.000	1.200	*	2.156	5.00	19.925	23.91	187.7	600.4	1,632.5
75.00		1.00	1.19	7.243	7.967	0.000	1.200	*	2.171	5.00	19.484	23.38	186.3	590.2	1,596.1
80.00		1.00	1.20	7.342	8.076	0.000	1.200	*	2.185	5.00	19.041	22.85	184.5	579.5	1,559.4
85.00		1.00	1.22	7.436	8.180	0.000	1.200	*	2.198	5.00	18.598	22.32	182.6	568.4	1,522.2
90.00	Appertunance(s)	1.00	1.23	7.526	8.279	0.000	1.200	*	2.211	5.00	18.155	21.79	180.4	557.0	1,484.7
94.92	Bot - Section 3	1.00	1.25	7.611	8.372	0.000	1.200	*	2.223	4.92	17.420	20.90	175.0	536.3	1,423.2
95.00		1.00	1.25	7.612	8.374	0.000	1.200	*	2.223	0.08	0.296	0.36	3.0	9.2	36.6
97.00	Appertunance(s)	1.00	1.25	7.646	8.410	0.000	1.200	*	2.228	2.00	7.065	8.48	71.3	219.7	873.1
99.83	Top - Section 2	1.00	1.26	7.692	8.461	0.000	1.200	*	2.234	2.83	9.887	11.86	100.4	307.3	1,219.9
100.0		1.00	1.26	7.695	8.464	0.000	1.200	*	2.234	0.17	0.577	0.69	5.9	18.1	42.5
105.0		1.00	1.27	7.774	8.552	0.000	1.200	*	2.245	5.00	17.086	20.50	175.3	529.6	1,251.5
110.0		1.00	1.29	7.851	8.636	0.000	1.200	*	2.256	5.00	16.641	19.97	172.5	517.0	1,217.2
115.0	Appertunance(s)	1.00	1.30	7.925	8.717	0.000	1.200	*	2.266	5.00	16.196	19.43	169.4	504.3	1,182.7
120.0		1.00	1.31	7.996	8.796	0.000	1.200	*	2.276	5.00	15.750	18.90	166.2	491.2	1,148.0
125.0	Appertunance(s)	1.00	1.32	8.065	8.872	0.000	1.200	*	2.285	5.00	15.304	18.36	162.9	478.0	1,113.0
130.0		1.00	1.33	8.132	8.945	0.000	1.200		2.294	5.00	14.857	17.83	159.5	464.6	1,077.9
135.0		1.00	1.34	8.197	9.016	0.000	1.200		2.303	5.00	14.411	17.29	155.9	451.0	1,042.6
136.0	Appertunance(s)	1.00	1.35	8.210	9.031	0.000	1.200		2.304	1.00	2.828	3.39	30.6	89.7	205.4
140.0		1.00	1.35	8.260	9.086	0.000	1.200		2.311	4.00	11.135	13.36	121.4	349.8	803.9
145.0		1.00	1.36	8.321	9.153	0.000	1.200		2.319	5.00	13.517	16.22	148.5	423.3	971.4
147.9	Appertunance(s)	1.00	1.37	8.356	9.191	0.000	1.200		2.324	2.90	7.634	9.16	84.2	240.8	548.7
147.9	Appertunance(s)	1.00	1.37	8.356	9.192	0.000	1.200		2.324	0.02	0.044	0.05	0.5	1.4	3.2
* = Cf Adjusted By Linear Load Ra Effect								Totals:		147.92			5,178.0	16,732.2	47,143.2

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
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Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
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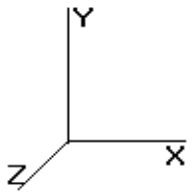


Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 22 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

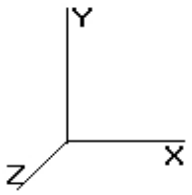
Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
90.00	DragonWave A-ANT-	2	7.526	8.279	1.00	0.80	10.09	0.000	0.000	83.55	0.00	0.00	256.93
90.00	DragonWave Horizon	2	7.526	8.279	0.50	0.80	0.61	0.000	0.000	5.02	0.00	0.00	110.29
90.00	Argus LLPX310R	3	7.526	8.279	0.73	0.80	9.55	0.000	0.000	79.07	0.00	0.00	539.37
90.00	NextNet BTS-2500	3	7.526	8.279	0.50	0.80	3.09	0.000	0.000	25.56	0.00	0.00	363.32
90.00	Side Arms	1	7.526	8.279	1.00	1.00	17.52	0.000	0.000	145.05	0.00	0.00	1,146.34
97.00	Antel BCD-87010_25	1	7.727	8.500	1.00	1.00	7.33	0.000	5.000	62.30	0.00	311.52	225.80
97.00	Stand Off	1	7.646	8.410	1.00	1.00	9.44	0.000	0.000	79.43	0.00	0.00	193.56
115.0	Flat Low Profile Pla	1	7.925	8.717	1.00	1.00	50.94	0.000	0.000	444.05	0.00	0.00	2,442.93
115.0	Antel BXA-171063-12B	1	7.925	8.717	0.88	0.80	4.48	0.000	0.000	39.02	0.00	0.00	186.74
115.0	Antel BXA-171063-8BF	2	7.925	8.717	0.87	0.80	5.70	0.000	0.000	49.71	0.00	0.00	261.94
115.0	RFS DB-T1-6Z-8AB-0Z	1	7.925	8.717	0.67	0.80	3.19	0.000	0.000	27.83	0.00	0.00	249.51
115.0	Alcatel-Lucent RRH2x	3	7.925	8.717	0.67	0.80	4.86	0.000	0.000	42.36	0.00	0.00	467.61
115.0	Antel BXA-171063-12C	3	7.925	8.717	0.88	0.80	13.53	0.000	0.000	117.92	0.00	0.00	564.56
115.0	Antel BXA-70063-6CF-	6	7.925	8.717	0.77	0.80	34.11	0.000	0.000	297.38	0.00	0.00	1,511.98
125.0	Flat T-Arm	3	8.065	8.872	0.67	0.75	35.62	0.000	0.000	316.01	0.00	0.00	1,530.57
125.0	Ericsson KRY 112 144	3	8.065	8.872	0.50	0.80	0.89	0.000	0.000	7.94	0.00	0.00	115.41
125.0	Ericsson AIR 21, 1.3	3	8.065	8.872	0.86	0.80	15.51	0.000	0.000	137.64	0.00	0.00	1,003.07
125.0	Ericsson AIR 21, 1.3	3	8.065	8.872	0.85	0.80	15.43	0.000	0.000	136.86	0.00	0.00	997.49
136.0	Flat Low Profile Pla	1	8.210	9.031	1.00	1.00	51.36	0.000	0.000	463.80	0.00	0.00	2,457.19
136.0	48" x 4" Panels	9	8.247	9.072	0.67	0.80	15.57	0.000	3.000	141.25	0.00	423.75	976.92
147.9	48" x 12" Panels	9	8.381	9.219	0.67	0.75	28.98	0.000	2.100	267.20	0.00	561.12	2,037.76
147.9	72" x 12" Panels	3	8.381	9.219	0.67	0.75	14.92	0.000	2.100	137.55	0.00	288.85	978.84
150.0	Flat Platform w/ Han	1	8.381	9.219	1.00	1.00	70.38	0.000	0.000	648.82	0.00	1,351.49	3,846.12
										3,755.32			22,464.25

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 22 Iterations

Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

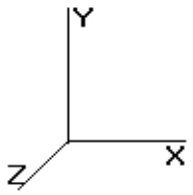
Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.30	0.00	5.168	0.134	1.101	0.00	140.58
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.30	0.00	5.168	0.134	1.101	0.00	140.58
10.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.134	1.101	0.00	41.26
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.134	1.101	0.00	29.24
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.134	1.101	0.00	30.07
10.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	2.94	0.00	5.168	0.134	1.101	0.00	168.74
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.134	1.101	0.00	34.15
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.37	0.00	5.168	0.136	1.109	0.00	145.60
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.37	0.00	5.168	0.136	1.109	0.00	145.60
15.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.136	1.109	0.00	43.36
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.136	1.109	0.00	31.18
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.136	1.109	0.00	32.06
15.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.00	0.00	5.168	0.136	1.109	0.00	172.37
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.168	0.136	1.109	0.00	36.32
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.41	0.00	5.483	0.139	1.117	0.00	149.32
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.41	0.00	5.483	0.139	1.117	0.00	149.32
20.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.483	0.139	1.117	0.00	44.93
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.483	0.139	1.117	0.00	32.65
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.483	0.139	1.117	0.00	33.56
20.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.04	0.00	5.483	0.139	1.117	0.00	175.07
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.483	0.139	1.117	0.00	37.95
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.45	0.00	5.747	0.142	1.126	0.00	152.32
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.45	0.00	5.747	0.142	1.126	0.00	152.32
25.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.747	0.142	1.126	0.00	46.21
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.747	0.142	1.126	0.00	33.84
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.747	0.142	1.126	0.00	34.78
25.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.08	0.00	5.747	0.142	1.126	0.00	177.25
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.747	0.142	1.126	0.00	39.28
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.48	0.00	5.972	0.145	1.135	0.00	154.83
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.48	0.00	5.972	0.145	1.135	0.00	154.83
30.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.972	0.145	1.135	0.00	47.30
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.972	0.145	1.135	0.00	34.85
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.972	0.145	1.135	0.00	35.81
30.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.11	0.00	5.972	0.145	1.135	0.00	179.08
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.972	0.145	1.135	0.00	40.40
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.50	0.00	6.169	0.148	1.144	0.00	157.00
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.50	0.00	6.169	0.148	1.144	0.00	157.00
35.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.169	0.148	1.144	0.00	48.25
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.169	0.148	1.144	0.00	35.73
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.169	0.148	1.144	0.00	36.71
35.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.13	0.00	6.169	0.148	1.144	0.00	180.67
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.169	0.148	1.144	0.00	41.37
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.52	0.00	6.345	0.151	1.154	0.00	158.92
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.52	0.00	6.345	0.151	1.154	0.00	158.92
40.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.345	0.151	1.154	0.00	49.09
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.345	0.151	1.154	0.00	36.51
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.345	0.151	1.154	0.00	37.51
40.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.16	0.00	6.345	0.151	1.154	0.00	182.08
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.345	0.151	1.154	0.00	42.24
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.54	0.00	6.504	0.155	1.164	0.00	160.64
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.54	0.00	6.504	0.155	1.164	0.00	160.64

Pole :	302466			Code:	ANSI/TIA-222 Rev G						3/19/2014 6:59:24 PM	
Location :	West Service Road, CT			Struct Class :	II						Page:	23
Height :	147.9 (ft)			Exposure Category :	C							
Base Dia :	56.58 (in)			Topographic Category :	1							
Top Dia :	26.21 (in)			Base Elev :	0.000 (ft)							
Shape :	18 Sides											
Taper :	0.214565 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 22 Iterations

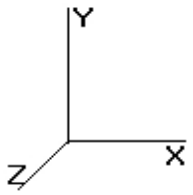
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

45.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.504	0.155	1.164	0.00	49.84
45.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.504	0.155	1.164	0.00	37.22
45.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.504	0.155	1.164	0.00	38.24
45.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.18	0.00	6.504	0.155	1.164	0.00	183.34
45.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.504	0.155	1.164	0.00	43.02
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.94	0.00	6.559	0.157	1.172	0.00	59.12
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.94	0.00	6.559	0.157	1.172	0.00	59.12
46.83	(1) 1 5/8" Fiber	Yes	1.83	0.000	0.00	0.00	0.00	6.559	0.157	1.172	0.00	18.37
46.83	(1) 7/8" Coax	Yes	1.83	0.000	0.00	0.00	0.00	6.559	0.157	1.172	0.00	13.74
46.83	(2) 1/2" Coax	Yes	1.83	0.000	0.00	0.00	0.00	6.559	0.157	1.172	0.00	14.11
46.83	(2) 3" Conduit	Yes	1.83	0.000	3.50	1.17	0.00	6.559	0.157	1.172	0.00	67.38
46.83	(6) 5/16" Coax	Yes	1.83	0.000	0.00	0.00	0.00	6.559	0.157	1.172	0.00	15.87
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	1.62	0.00	6.650	0.159	1.177	0.00	102.73
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	1.62	0.00	6.650	0.159	1.177	0.00	102.73
50.00	(1) 1 5/8" Fiber	Yes	3.17	0.000	0.00	0.00	0.00	6.650	0.159	1.177	0.00	32.01
50.00	(1) 7/8" Coax	Yes	3.17	0.000	0.00	0.00	0.00	6.650	0.159	1.177	0.00	23.98
50.00	(2) 1/2" Coax	Yes	3.17	0.000	0.00	0.00	0.00	6.650	0.159	1.177	0.00	24.63
50.00	(2) 3" Conduit	Yes	3.17	0.000	3.50	2.02	0.00	6.650	0.159	1.177	0.00	116.84
50.00	(6) 5/16" Coax	Yes	3.17	0.000	0.00	0.00	0.00	6.650	0.159	1.177	0.00	27.70
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	1.54	0.00	6.732	0.161	1.184	0.00	97.85
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	1.54	0.00	6.732	0.161	1.184	0.00	97.85
53.00	(1) 1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	6.732	0.161	1.184	0.00	30.55
53.00	(1) 7/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.732	0.161	1.184	0.00	22.94
53.00	(2) 1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.732	0.161	1.184	0.00	23.56
53.00	(2) 3" Conduit	Yes	3.00	0.000	3.50	1.92	0.00	6.732	0.161	1.184	0.00	111.08
53.00	(6) 5/16" Coax	Yes	3.00	0.000	0.00	0.00	0.00	6.732	0.161	1.184	0.00	26.48
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	1.03	0.00	6.785	0.161	1.182	0.00	65.45
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	1.03	0.00	6.785	0.161	1.182	0.00	65.45
55.00	(1) 1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	6.785	0.161	1.182	0.00	20.47
55.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.785	0.161	1.182	0.00	15.38
55.00	(2) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.785	0.161	1.182	0.00	15.80
55.00	(2) 3" Conduit	Yes	2.00	0.000	3.50	1.28	0.00	6.785	0.161	1.182	0.00	74.22
55.00	(6) 5/16" Coax	Yes	2.00	0.000	0.00	0.00	0.00	6.785	0.161	1.182	0.00	17.76
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.59	0.00	6.910	0.163	1.190	0.00	164.96
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.59	0.00	6.910	0.163	1.190	0.00	164.96
60.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.910	0.163	1.190	0.00	51.77
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.910	0.163	1.190	0.00	39.01
60.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.910	0.163	1.190	0.00	40.07
60.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.23	0.00	6.910	0.163	1.190	0.00	186.52
60.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.910	0.163	1.190	0.00	45.01
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.61	0.00	7.028	0.167	1.202	0.00	166.20
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.61	0.00	7.028	0.167	1.202	0.00	166.20
65.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.028	0.167	1.202	0.00	52.32
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.028	0.167	1.202	0.00	39.53
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.028	0.167	1.202	0.00	40.60
65.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.24	0.00	7.028	0.167	1.202	0.00	187.43
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.028	0.167	1.202	0.00	45.58
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.62	0.00	7.138	0.171	1.214	0.00	167.35
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.62	0.00	7.138	0.171	1.214	0.00	167.35
70.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.138	0.171	1.214	0.00	52.84
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.138	0.171	1.214	0.00	40.02
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.138	0.171	1.214	0.00	41.10
70.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.26	0.00	7.138	0.171	1.214	0.00	188.28
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.138	0.171	1.214	0.00	46.11
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.63	0.00	7.243	0.176	1.228	0.00	168.43
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.63	0.00	7.243	0.176	1.228	0.00	168.43
75.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.243	0.176	1.228	0.00	53.33

Pole :	302466			Code:	ANSI/TIA-222 Rev G						3/19/2014 6:59:24 PM	
Location :	West Service Road, CT			Struct Class :	II						Page:	24
Height :	147.9 (ft)			Exposure Category :	C							
Base Dia :	56.58 (in)			Topographic Category :	1							
Top Dia :	26.21 (in)			Base Elev :	0.000 (ft)							
Shape :	18 Sides											
Taper :	0.214565 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 1.00 in Radial Ice — 22 Iterations

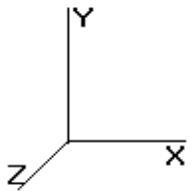
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.243	0.176	1.228	0.00	40.47
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.243	0.176	1.228	0.00	41.56
75.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.27	0.00	7.243	0.176	1.228	0.00	189.08
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.243	0.176	1.228	0.00	46.62
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.65	0.00	7.342	0.181	1.242	0.00	169.46
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.65	0.00	7.342	0.181	1.242	0.00	169.46
80.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.342	0.181	1.242	0.00	53.79
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.342	0.181	1.242	0.00	40.91
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.342	0.181	1.242	0.00	42.01
80.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.28	0.00	7.342	0.181	1.242	0.00	189.84
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.342	0.181	1.242	0.00	47.09
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.66	0.00	7.436	0.185	1.256	0.00	170.43
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.66	0.00	7.436	0.185	1.256	0.00	170.43
85.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.436	0.185	1.256	0.00	54.23
85.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.436	0.185	1.256	0.00	41.32
85.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.436	0.185	1.256	0.00	42.43
85.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.29	0.00	7.436	0.185	1.256	0.00	190.56
85.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.436	0.185	1.256	0.00	47.55
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.67	0.00	7.526	0.191	1.272	0.00	171.35
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.67	0.00	7.526	0.191	1.272	0.00	171.35
90.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.526	0.191	1.272	0.00	54.65
90.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.526	0.191	1.272	0.00	41.71
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.526	0.191	1.272	0.00	42.83
90.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	3.30	0.00	7.526	0.191	1.272	0.00	191.24
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.526	0.191	1.272	0.00	47.98
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	2.63	0.00	7.611	0.104	1.012	0.00	169.34
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	2.63	0.00	7.611	0.104	1.012	0.00	169.34
94.92	(1) 1 5/8" Fiber	Yes	4.92	0.000	0.00	0.00	0.00	7.611	0.104	1.012	0.00	54.13
94.92	(1) 7/8" Coax	Yes	4.92	0.000	0.00	0.00	0.00	7.611	0.104	1.012	0.00	41.38
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.04	0.00	7.612	0.106	1.017	0.00	2.87
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.04	0.00	7.612	0.106	1.017	0.00	2.87
95.00	(1) 1 5/8" Fiber	Yes	0.08	0.000	0.00	0.00	0.00	7.612	0.106	1.017	0.00	0.92
95.00	(1) 7/8" Coax	Yes	0.08	0.000	0.00	0.00	0.00	7.612	0.106	1.017	0.00	0.70
97.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	1.07	0.00	7.646	0.106	1.019	0.00	69.03
97.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	1.07	0.00	7.646	0.106	1.019	0.00	69.03
97.00	(1) 1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	7.646	0.106	1.019	0.00	22.08
97.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	7.646	0.106	1.019	0.00	16.89
99.83	(6) 1 5/8" Coax	Yes	2.83	0.000	1.98	1.52	0.00	7.692	0.108	1.023	0.00	98.06
99.83	(6) 1 5/8" Coax	Yes	2.83	0.000	1.98	1.52	0.00	7.692	0.108	1.023	0.00	98.06
99.83	(1) 1 5/8" Fiber	Yes	2.83	0.000	0.00	0.00	0.00	7.692	0.108	1.023	0.00	31.40
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.09	0.00	7.695	0.107	1.020	0.00	5.77
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.09	0.00	7.695	0.107	1.020	0.00	5.77
100.0	(1) 1 5/8" Fiber	Yes	0.17	0.000	0.00	0.00	0.00	7.695	0.107	1.020	0.00	1.85
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.70	0.00	7.774	0.108	1.025	0.00	173.87
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.70	0.00	7.774	0.108	1.025	0.00	173.87
105.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.774	0.108	1.025	0.00	55.80
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.70	0.00	7.851	0.112	1.035	0.00	174.64
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.70	0.00	7.851	0.112	1.035	0.00	174.64
110.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.851	0.112	1.035	0.00	56.16
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.71	0.00	7.925	0.115	1.046	0.00	175.38
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.71	0.00	7.925	0.115	1.046	0.00	175.38
115.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.925	0.115	1.046	0.00	56.50
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.72	0.00	7.996	0.119	1.057	0.00	176.10
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.72	0.00	7.996	0.119	1.057	0.00	176.10
120.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.996	0.119	1.057	0.00	56.83
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.73	0.00	8.065	0.123	1.069	0.00	176.79
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.73	0.00	8.065	0.123	1.069	0.00	176.79

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



Load Case: **1.2D + 1.0Di + 1.0Wi** — **50.00 mph with 1.00 in Radial Ice** — **22 Iterations**

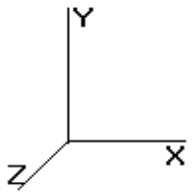
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

125.0	**(1) 1 5/8" Fiber**	**Yes**	**5.00**	**0.000**	**0.00**	**0.00**	**0.00**	**8.065**	**0.123**	**1.069**	**0.00**	**57.14**
										Totals:	**0.00**	**14,302.29**

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



Load Case: **1.2D + 1.0Di + 1.0Wi** — **50.00 mph with 1.00 in Radial Ice** — **22 Iterations**

Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

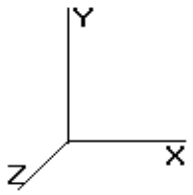
Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	171.17	1,945.71	0.00	0.00
10.00	168.75	2,735.86	0.00	0.00
15.00	166.07	2,745.90	0.00	0.00
20.00	173.25	2,742.67	0.00	0.00
25.00	178.41	2,731.79	0.00	0.00
30.00	182.05	2,715.86	0.00	0.00
35.00	184.56	2,696.33	0.00	0.00
40.00	186.21	2,674.08	0.00	0.00
45.00	187.16	2,649.70	0.00	0.00
46.83	68.24	965.09	0.00	0.00
50.00	120.07	2,381.44	0.00	0.00
53.00	113.72	2,236.40	0.00	0.00
55.00	75.62	1,046.53	0.00	0.00
60.00	189.78	2,595.49	0.00	0.00
65.00	188.93	2,565.77	0.00	0.00
70.00	187.74	2,535.15	0.00	0.00
75.00	186.27	2,503.73	0.00	0.00
80.00	184.53	2,471.60	0.00	0.00
85.00	182.56	2,438.83	0.00	0.00
90.00	518.61	4,821.75	0.00	0.00
94.92	175.00	2,053.73	0.00	0.00
95.00	2.97	47.31	0.00	0.00
97.00	213.03	1,549.35	0.00	311.52
99.83	100.39	1,560.58	0.00	0.00
100.0	5.86	62.54	0.00	0.00
105.0	175.34	1,854.69	0.00	0.00
110.0	172.46	1,822.31	0.00	0.00
115.0	1,187.69	7,474.90	0.00	0.00
120.0	166.24	1,660.30	0.00	0.00
125.0	761.36	5,273.59	0.00	0.00
130.0	159.48	1,181.19	0.00	0.00
135.0	155.92	1,145.86	0.00	0.00
136.0	635.70	3,660.13	0.00	423.75
140.0	121.40	851.13	0.00	0.00
145.0	148.46	1,030.43	0.00	0.00
147.9	488.95	3,599.56	0.00	849.97
147.9	649.31	3,849.32	0.00	1,351.49
Totals:	**8,933.27**	**88,876.59**	**0.00**	**2,936.73**

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	**3/19/2014 6:59:24 PM**
Location :	**West Service Road, CT**	**Struct Class : II**	**Page: 27**
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



Load Case: **1.2D + 1.0Di + 1.0Wi** **50.00 mph with 1.00 in Radial Ice** **22 Iterations**

Gust Response Factor : 1.10 **Ice Dead Load Factor : 1.00** **Wind Importance Factor : 1.00**

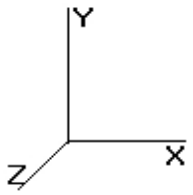
Dead Load Factor : 1.20 **Ice Importance Factor : 1.00**

Wind Load Factor : 1.00

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-88.87	-8.97	0.00	-924.99	0.00	924.99	4,345.86	2,172.93	10,048.4	5,031.69	0.00	0.00	0.204
5.00	-86.92	-8.87	0.00	-880.13	0.00	880.13	4,297.95	2,148.97	9,746.71	4,880.60	0.03	-0.05	0.201
10.00	-84.18	-8.77	0.00	-835.77	0.00	835.77	4,248.67	2,124.33	9,446.21	4,730.12	0.10	-0.10	0.197
15.00	-81.42	-8.67	0.00	-791.92	0.00	791.92	4,198.03	2,099.01	9,147.11	4,580.35	0.23	-0.15	0.192
20.00	-78.67	-8.56	0.00	-748.58	0.00	748.58	4,146.02	2,073.01	8,849.60	4,431.38	0.41	-0.19	0.188
25.00	-75.94	-8.43	0.00	-705.80	0.00	705.80	4,092.65	2,046.33	8,553.86	4,283.29	0.64	-0.24	0.183
30.00	-73.21	-8.30	0.00	-663.65	0.00	663.65	4,037.92	2,018.96	8,260.07	4,136.18	0.92	-0.29	0.179
35.00	-70.51	-8.16	0.00	-622.15	0.00	622.15	3,981.82	1,990.91	7,968.42	3,990.13	1.25	-0.34	0.174
40.00	-67.83	-8.02	0.00	-581.35	0.00	581.35	3,924.36	1,962.18	7,679.09	3,845.25	1.64	-0.39	0.168
45.00	-65.18	-7.85	0.00	-541.27	0.00	541.27	3,865.54	1,932.77	7,392.25	3,701.62	2.07	-0.44	0.163
46.83	-64.21	-7.80	0.00	-526.88	0.00	526.88	3,843.63	1,921.82	7,287.74	3,649.29	2.25	-0.46	0.161
50.00	-61.83	-7.69	0.00	-502.19	0.00	502.19	3,805.35	1,902.68	7,108.10	3,559.33	2.56	-0.49	0.157
53.00	-59.59	-7.58	0.00	-479.11	0.00	479.11	3,811.38	1,905.69	7,136.13	3,573.37	2.88	-0.52	0.150
55.00	-58.54	-7.53	0.00	-463.94	0.00	463.94	3,786.98	1,893.49	7,023.14	3,516.79	3.10	-0.54	0.147
60.00	-55.94	-7.36	0.00	-426.27	0.00	426.27	3,725.01	1,862.51	6,742.74	3,376.38	3.69	-0.59	0.141
65.00	-53.37	-7.19	0.00	-389.46	0.00	389.46	3,661.69	1,830.84	6,465.44	3,237.53	4.33	-0.63	0.135
70.00	-50.83	-7.01	0.00	-353.53	0.00	353.53	3,597.00	1,798.50	6,191.43	3,100.31	5.01	-0.67	0.128
75.00	-48.32	-6.83	0.00	-318.48	0.00	318.48	3,530.95	1,765.47	5,920.87	2,964.83	5.74	-0.72	0.121
80.00	-45.85	-6.65	0.00	-284.33	0.00	284.33	3,463.53	1,731.77	5,653.95	2,831.18	6.52	-0.76	0.114
85.00	-43.41	-6.46	0.00	-251.11	0.00	251.11	3,394.75	1,697.38	5,390.86	2,699.44	7.34	-0.80	0.106
90.00	-38.59	-5.90	0.00	-218.81	0.00	218.81	3,324.61	1,662.30	5,131.78	2,569.70	8.19	-0.84	0.097
94.92	-36.54	-5.70	0.00	-189.82	0.00	189.82	3,235.43	1,617.71	4,852.78	2,430.00	9.08	-0.87	0.089
95.00	-36.49	-5.70	0.00	-189.34	0.00	189.34	3,233.85	1,616.92	4,848.02	2,427.61	9.09	-0.87	0.089
97.00	-34.94	-5.48	0.00	-177.63	0.00	177.63	3,195.90	1,597.95	4,734.34	2,370.69	9.46	-0.89	0.086
99.83	-33.39	-5.36	0.00	-162.11	0.00	162.11	2,561.72	1,280.86	3,809.83	1,907.74	9.99	-0.91	0.098
100.00	-33.32	-5.36	0.00	-161.22	0.00	161.22	2,559.96	1,279.98	3,803.41	1,904.53	10.03	-0.91	0.098
105.00	-31.47	-5.18	0.00	-134.41	0.00	134.41	2,506.38	1,253.19	3,612.46	1,808.91	11.00	-0.94	0.087
110.00	-29.64	-4.99	0.00	-108.53	0.00	108.53	2,451.43	1,225.72	3,424.36	1,714.72	12.00	-0.98	0.075
115.00	-22.19	-3.68	0.00	-83.59	0.00	83.59	2,395.12	1,197.56	3,239.30	1,622.06	13.04	-1.00	0.061
120.00	-20.53	-3.49	0.00	-65.19	0.00	65.19	2,337.45	1,168.73	3,057.46	1,531.00	14.11	-1.03	0.051
125.00	-15.27	-2.64	0.00	-47.73	0.00	47.73	2,271.20	1,135.60	2,869.91	1,437.09	15.19	-1.05	0.040
130.00	-14.09	-2.46	0.00	-34.52	0.00	34.52	2,192.15	1,096.07	2,672.63	1,338.30	16.30	-1.06	0.032
135.00	-12.95	-2.29	0.00	-22.21	0.00	22.21	2,113.09	1,056.55	2,482.37	1,243.03	17.42	-1.08	0.024
136.00	-9.30	-1.58	0.00	-19.50	0.00	19.50	2,097.28	1,048.64	2,445.16	1,224.40	17.64	-1.08	0.020
140.00	-8.45	-1.45	0.00	-13.16	0.00	13.16	2,034.04	1,017.02	2,299.14	1,151.28	18.55	-1.08	0.016
145.00	-7.43	-1.28	0.00	-5.92	0.00	5.92	1,954.98	977.49	2,122.94	1,063.05	19.69	-1.09	0.009
147.90	-3.84	-0.72	0.00	-1.36	0.00	1.36	1,909.13	954.57	2,023.96	1,013.48	20.35	-1.09	0.003
147.92	0.00	-0.65	0.00	-1.35	0.00	1.35	1,908.86	954.43	2,023.38	1,013.20	20.35	-1.09	0.001

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 21 Iterations

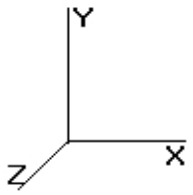
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf		Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.186	264.84	0.650		0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.186	259.82	0.650		0.000	5.00	23.712	15.41	126.2	0.0	1,127.3
10.00		1.00	0.85	7.442	8.186	254.80	0.650	*	0.000	5.00	23.258	15.12	123.8	0.0	1,105.6
15.00		1.00	0.85	7.442	8.186	249.77	0.650	*	0.000	5.00	22.804	14.82	121.3	0.0	1,083.8
20.00		1.00	0.90	7.896	8.686	252.11	0.650	*	0.000	5.00	22.350	14.53	126.2	0.0	1,062.1
25.00		1.00	0.94	8.276	9.104	252.81	0.650	*	0.000	5.00	21.896	14.23	129.6	0.0	1,040.4
30.00		1.00	0.98	8.600	9.460	252.31	0.650	*	0.000	5.00	21.442	13.94	131.8	0.0	1,018.7
35.00		1.00	1.01	8.883	9.772	250.95	0.650	*	0.000	5.00	20.988	13.64	133.3	0.0	996.9
40.00		1.00	1.04	9.137	10.05	248.94	0.650	*	0.000	5.00	20.534	13.35	134.1	0.0	975.2
45.00		1.00	1.07	9.366	10.30	246.41	0.650	*	0.000	5.00	20.080	13.05	134.5	0.0	953.5
46.83	Bot - Section 2	1.00	1.07	9.445	10.39	245.37	0.650	*	0.000	1.83	7.249	4.71	49.0	0.0	344.2
50.00		1.00	1.09	9.576	10.53	243.46	0.650	*	0.000	3.17	12.578	8.18	86.1	0.0	1,184.8
53.00	Top - Section 1	1.00	1.10	9.694	10.66	241.52	0.650	*	0.000	3.00	11.748	7.64	81.4	0.0	1,106.4
55.00		1.00	1.11	9.770	10.74	244.18	0.650	*	0.000	2.00	7.741	5.03	54.1	0.0	367.5
60.00		1.00	1.13	9.951	10.94	240.62	0.650	*	0.000	5.00	19.036	12.37	135.4	0.0	903.5
65.00		1.00	1.15	10.120	11.13	236.80	0.650	*	0.000	5.00	18.582	12.08	134.5	0.0	881.8
70.00		1.00	1.17	10.279	11.30	232.76	0.650	*	0.000	5.00	18.128	11.78	133.2	0.0	860.1
75.00		1.00	1.19	10.430	11.47	228.51	0.650	*	0.000	5.00	17.674	11.49	131.8	0.0	838.3
80.00		1.00	1.20	10.572	11.62	224.08	0.650	*	0.000	5.00	17.220	11.19	130.2	0.0	816.6
85.00		1.00	1.22	10.708	11.77	219.49	0.650	*	0.000	5.00	16.766	10.90	128.4	0.0	794.9
90.00	Appertunance(s)	1.00	1.23	10.838	11.92	214.76	0.650	*	0.000	5.00	16.313	10.60	126.4	0.0	773.2
94.92	Bot - Section 3	1.00	1.25	10.960	12.05	209.97	0.650	*	0.000	4.92	15.598	10.14	122.2	0.0	739.1
95.00		1.00	1.25	10.962	12.05	209.89	0.650	*	0.000	0.08	0.265	0.17	2.1	0.0	22.8
97.00	Appertunance(s)	1.00	1.25	11.010	12.11	207.90	0.650	*	0.000	2.00	6.322	4.11	49.8	0.0	544.5
99.83	Top - Section 2	1.00	1.26	11.077	12.18	205.06	0.650	*	0.000	2.83	8.832	5.74	69.9	0.0	760.5
100.0		1.00	1.26	11.081	12.18	208.46	0.650	*	0.000	0.17	0.515	0.33	4.1	0.0	20.4
105.0		1.00	1.27	11.195	12.31	203.38	0.650	*	0.000	5.00	15.215	9.89	121.8	0.0	601.6
110.0		1.00	1.29	11.305	12.43	198.19	0.650	*	0.000	5.00	14.761	9.59	119.3	0.0	583.5
115.0	Appertunance(s)	1.00	1.30	11.412	12.55	192.90	0.650	*	0.000	5.00	14.307	9.30	116.7	0.0	565.4
120.0		1.00	1.31	11.514	12.66	187.52	0.650	*	0.000	5.00	13.854	9.00	114.1	0.0	547.3
125.0	Appertunance(s)	1.00	1.32	11.614	12.77	182.05	0.650	*	0.000	5.00	13.400	8.71	111.3	0.0	529.2
130.0		1.00	1.33	11.710	12.88	176.51	0.650		0.000	5.00	12.946	8.41	108.4	0.0	511.1
135.0		1.00	1.34	11.803	12.98	170.88	0.650		0.000	5.00	12.492	8.12	105.4	0.0	493.0
136.0	Appertunance(s)	1.00	1.35	11.822	13.00	169.75	0.650		0.000	1.00	2.444	1.59	20.7	0.0	96.4
140.0		1.00	1.35	11.894	13.08	165.19	0.650		0.000	4.00	9.594	6.24	81.6	0.0	378.4
145.0		1.00	1.36	11.982	13.18	159.43	0.650		0.000	5.00	11.584	7.53	99.2	0.0	456.8
147.9	Appertunance(s)	1.00	1.37	12.032	13.23	156.06	0.650		0.000	2.90	6.511	4.23	56.0	0.0	256.6
147.9	Appertunance(s)	1.00	1.37	12.033	13.23	156.04	0.650		0.000	0.02	0.038	0.02	0.3	0.0	1.5
* = Cf Adjusted By Linear Load Ra Effect								Totals:		147.92			3,654.2	0.0	25,342.5

Pole :	302466	Code:	ANSI/TIA-222 Rev G
Location :	West Service Road, CT	Struct Class :	II
Height :	147.9 (ft)	Exposure Category :	C
Base Dia :	56.58 (in)	Topographic Category :	1
Top Dia :	26.21 (in)	Base Elev :	0.000 (ft)
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 21 Iterations

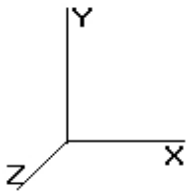
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Orientation Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
90.00	DragonWave A-ANT-	2	10.838	11.921	1.00	0.80	7.50	0.000	0.000	89.46	0.00	0.00	54.20
90.00	DragonWave Horizon	2	10.838	11.921	0.50	0.80	0.34	0.000	0.000	4.10	0.00	0.00	21.20
90.00	Argus LLPX310R	3	10.838	11.921	0.73	0.80	7.52	0.000	0.000	89.60	0.00	0.00	85.80
90.00	NextNet BTS-2500	3	10.838	11.921	0.50	0.80	2.18	0.000	0.000	26.04	0.00	0.00	105.00
90.00	Side Arms	1	10.838	11.921	1.00	1.00	8.50	0.000	0.000	101.33	0.00	0.00	560.00
97.00	Antel BCD-87010_25	1	11.127	12.240	1.00	1.00	2.90	0.000	5.000	35.50	0.00	177.48	26.50
97.00	Stand Off	1	11.010	12.111	1.00	1.00	6.30	0.000	0.000	76.30	0.00	0.00	150.00
115.0	Flat Low Profile Pla	1	11.412	12.553	1.00	1.00	26.10	0.000	0.000	327.63	0.00	0.00	1,500.00
115.0	Antel BXA-171063-12B	1	11.412	12.553	0.88	0.80	3.33	0.000	0.000	41.80	0.00	0.00	15.00
115.0	Antel BXA-171063-8BF	2	11.412	12.553	0.87	0.80	4.09	0.000	0.000	51.37	0.00	0.00	21.00
115.0	RFS DB-T1-6Z-8AB-0Z	1	11.412	12.553	0.67	0.80	2.57	0.000	0.000	32.30	0.00	0.00	44.00
115.0	Alcatel-Lucent RRH2x	3	11.412	12.553	0.67	0.80	3.47	0.000	0.000	43.60	0.00	0.00	132.00
115.0	Antel BXA-171063-12C	3	11.412	12.553	0.88	0.80	10.12	0.000	0.000	126.99	0.00	0.00	45.00
115.0	Antel BXA-70063-6CF-	6	11.412	12.553	0.77	0.80	27.98	0.000	0.000	351.21	0.00	0.00	102.00
125.0	Flat T-Arm	3	11.614	12.775	0.67	0.75	19.45	0.000	0.000	248.43	0.00	0.00	750.00
125.0	Ericsson KRY 112 144	3	11.614	12.775	0.50	0.80	0.49	0.000	0.000	6.29	0.00	0.00	33.00
125.0	Ericsson AIR 21, 1.3	3	11.614	12.775	0.86	0.80	12.49	0.000	0.000	159.53	0.00	0.00	249.00
125.0	Ericsson AIR 21, 1.3	3	11.614	12.775	0.85	0.80	12.42	0.000	0.000	158.71	0.00	0.00	244.50
136.0	Flat Low Profile Pla	1	11.822	13.004	1.00	1.00	26.10	0.000	0.000	339.40	0.00	0.00	1,500.00
136.0	48" x 4" Panels	9	11.876	13.064	0.67	0.80	10.08	0.000	3.000	131.71	0.00	395.13	180.00
147.9	48" x 12" Panels	9	12.068	13.275	0.67	0.75	22.93	0.000	2.100	304.38	0.00	639.20	270.00
147.9	72" x 12" Panels	3	12.068	13.275	0.67	0.75	12.26	0.000	2.100	162.70	0.00	341.67	135.00
150.0	Flat Platform w/ Han	1	12.068	13.275	1.00	1.00	42.40	0.000	0.000	562.86	0.00	1,172.43	2,000.00
										3,471.23			8,223.20

Pole :	302466	Code: ANSI/TIA-222 Rev G	
Location :	West Service Road, CT	Struct Class : II	
Height :	147.9 (ft)	Exposure Category : C	
Base Dia :	56.58 (in)	Topographic Category : 1	
Top Dia :	26.21 (in)	Base Elev : 0.000 (ft)	
Shape :	18 Sides		
Taper :	0.214565 (in/ft)		



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 21 Iterations

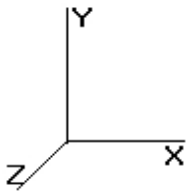
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.442	0.134	1.101	0.00	24.60
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.442	0.134	1.101	0.00	24.60
10.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.134	1.101	0.00	8.05
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.134	1.101	0.00	1.65
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.134	1.101	0.00	1.50
10.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	7.442	0.134	1.101	0.00	75.80
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.134	1.101	0.00	1.35
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.442	0.136	1.109	0.00	24.60
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.442	0.136	1.109	0.00	24.60
15.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.136	1.109	0.00	8.05
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.136	1.109	0.00	1.65
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.136	1.109	0.00	1.50
15.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	7.442	0.136	1.109	0.00	75.80
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.442	0.136	1.109	0.00	1.35
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.896	0.139	1.117	0.00	24.60
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.896	0.139	1.117	0.00	24.60
20.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.896	0.139	1.117	0.00	8.05
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.896	0.139	1.117	0.00	1.65
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.896	0.139	1.117	0.00	1.50
20.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	7.896	0.139	1.117	0.00	75.80
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.896	0.139	1.117	0.00	1.35
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.276	0.142	1.126	0.00	24.60
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.276	0.142	1.126	0.00	24.60
25.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	8.276	0.142	1.126	0.00	8.05
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.276	0.142	1.126	0.00	1.65
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.276	0.142	1.126	0.00	1.50
25.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	8.276	0.142	1.126	0.00	75.80
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.276	0.142	1.126	0.00	1.35
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.600	0.145	1.135	0.00	24.60
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.600	0.145	1.135	0.00	24.60
30.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	8.600	0.145	1.135	0.00	8.05
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.600	0.145	1.135	0.00	1.65
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.600	0.145	1.135	0.00	1.50
30.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	8.600	0.145	1.135	0.00	75.80
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.600	0.145	1.135	0.00	1.35
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.883	0.148	1.144	0.00	24.60
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.883	0.148	1.144	0.00	24.60
35.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	8.883	0.148	1.144	0.00	8.05
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.883	0.148	1.144	0.00	1.65
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.883	0.148	1.144	0.00	1.50
35.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	8.883	0.148	1.144	0.00	75.80
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.883	0.148	1.144	0.00	1.35
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.137	0.151	1.154	0.00	24.60
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.137	0.151	1.154	0.00	24.60
40.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	9.137	0.151	1.154	0.00	8.05
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.137	0.151	1.154	0.00	1.65
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.137	0.151	1.154	0.00	1.50
40.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	9.137	0.151	1.154	0.00	75.80
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.137	0.151	1.154	0.00	1.35
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.366	0.155	1.164	0.00	24.60
45.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.366	0.155	1.164	0.00	24.60

Pole :	302466			Code:	ANSI/TIA-222 Rev G						3/19/2014 6:59:25 PM	
Location :	West Service Road, CT			Struct Class :	II						Page:	31
Height :	147.9 (ft)			Exposure Category :	C							
Base Dia :	56.58 (in)			Topographic Category :	1							
Top Dia :	26.21 (in)			Base Elev :	0.000 (ft)							
Shape :	18 Sides											
Taper :	0.214565 (in/ft)											



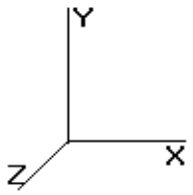
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 21 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

45.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	9.366	0.155	1.164	0.00	8.05
45.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.366	0.155	1.164	0.00	1.65
45.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.366	0.155	1.164	0.00	1.50
45.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	9.366	0.155	1.164	0.00	75.80
45.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.366	0.155	1.164	0.00	1.35
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	9.445	0.157	1.172	0.00	9.02
46.83	(6) 1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	9.445	0.157	1.172	0.00	9.02
46.83	(1) 1 5/8" Fiber	Yes	1.83	0.000	0.00	0.00	0.00	9.445	0.157	1.172	0.00	2.95
46.83	(1) 7/8" Coax	Yes	1.83	0.000	0.00	0.00	0.00	9.445	0.157	1.172	0.00	0.61
46.83	(2) 1/2" Coax	Yes	1.83	0.000	0.00	0.00	0.00	9.445	0.157	1.172	0.00	0.55
46.83	(2) 3" Conduit	Yes	1.83	0.000	3.50	0.53	0.00	9.445	0.157	1.172	0.00	27.79
46.83	(6) 5/16" Coax	Yes	1.83	0.000	0.00	0.00	0.00	9.445	0.157	1.172	0.00	0.50
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	9.576	0.159	1.177	0.00	15.58
50.00	(6) 1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	9.576	0.159	1.177	0.00	15.58
50.00	(1) 1 5/8" Fiber	Yes	3.17	0.000	0.00	0.00	0.00	9.576	0.159	1.177	0.00	5.10
50.00	(1) 7/8" Coax	Yes	3.17	0.000	0.00	0.00	0.00	9.576	0.159	1.177	0.00	1.04
50.00	(2) 1/2" Coax	Yes	3.17	0.000	0.00	0.00	0.00	9.576	0.159	1.177	0.00	0.95
50.00	(2) 3" Conduit	Yes	3.17	0.000	3.50	0.92	0.00	9.576	0.159	1.177	0.00	48.01
50.00	(6) 5/16" Coax	Yes	3.17	0.000	0.00	0.00	0.00	9.576	0.159	1.177	0.00	0.85
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	0.50	0.00	9.694	0.161	1.184	0.00	14.76
53.00	(6) 1 5/8" Coax	Yes	3.00	0.000	1.98	0.50	0.00	9.694	0.161	1.184	0.00	14.76
53.00	(1) 1 5/8" Fiber	Yes	3.00	0.000	0.00	0.00	0.00	9.694	0.161	1.184	0.00	4.83
53.00	(1) 7/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.694	0.161	1.184	0.00	0.99
53.00	(2) 1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.694	0.161	1.184	0.00	0.90
53.00	(2) 3" Conduit	Yes	3.00	0.000	3.50	0.88	0.00	9.694	0.161	1.184	0.00	45.48
53.00	(6) 5/16" Coax	Yes	3.00	0.000	0.00	0.00	0.00	9.694	0.161	1.184	0.00	0.81
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	9.770	0.161	1.182	0.00	9.84
55.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	9.770	0.161	1.182	0.00	9.84
55.00	(1) 1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	9.770	0.161	1.182	0.00	3.22
55.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.770	0.161	1.182	0.00	0.66
55.00	(2) 1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.770	0.161	1.182	0.00	0.60
55.00	(2) 3" Conduit	Yes	2.00	0.000	3.50	0.58	0.00	9.770	0.161	1.182	0.00	30.32
55.00	(6) 5/16" Coax	Yes	2.00	0.000	0.00	0.00	0.00	9.770	0.161	1.182	0.00	0.54
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.951	0.163	1.190	0.00	24.60
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.951	0.163	1.190	0.00	24.60
60.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	9.951	0.163	1.190	0.00	8.05
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.951	0.163	1.190	0.00	1.65
60.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.951	0.163	1.190	0.00	1.50
60.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	9.951	0.163	1.190	0.00	75.80
60.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.951	0.163	1.190	0.00	1.35
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.120	0.167	1.202	0.00	24.60
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.120	0.167	1.202	0.00	24.60
65.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	10.120	0.167	1.202	0.00	8.05
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.120	0.167	1.202	0.00	1.65
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.120	0.167	1.202	0.00	1.50
65.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	10.120	0.167	1.202	0.00	75.80
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.120	0.167	1.202	0.00	1.35
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.279	0.171	1.214	0.00	24.60
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.279	0.171	1.214	0.00	24.60
70.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	10.279	0.171	1.214	0.00	8.05
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.279	0.171	1.214	0.00	1.65
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.279	0.171	1.214	0.00	1.50
70.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	10.279	0.171	1.214	0.00	75.80
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.279	0.171	1.214	0.00	1.35
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.430	0.176	1.228	0.00	24.60
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.430	0.176	1.228	0.00	24.60
75.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	10.430	0.176	1.228	0.00	8.05

Pole :	302466			**Code:**	ANSI/TIA-222 Rev G							
Location :	West Service Road, CT			**Struct Class :**	II							
Height :	147.9 (ft)			**Exposure Category :**	C							
Base Dia :	56.58 (in)			**Topographic Category :**	1							
Top Dia :	26.21 (in)			**Base Elev :**	0.000 (ft)							
Shape :	18 Sides											
Taper :	0.214565 (in/ft)											



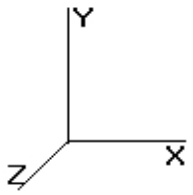
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 21 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.430	0.176	1.228	0.00	1.65
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.430	0.176	1.228	0.00	1.50
75.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	10.430	0.176	1.228	0.00	75.80
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.430	0.176	1.228	0.00	1.35
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.572	0.181	1.242	0.00	24.60
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.572	0.181	1.242	0.00	24.60
80.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	10.572	0.181	1.242	0.00	8.05
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.572	0.181	1.242	0.00	1.65
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.572	0.181	1.242	0.00	1.50
80.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	10.572	0.181	1.242	0.00	75.80
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.572	0.181	1.242	0.00	1.35
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.708	0.185	1.256	0.00	24.60
85.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.708	0.185	1.256	0.00	24.60
85.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	10.708	0.185	1.256	0.00	8.05
85.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.708	0.185	1.256	0.00	1.65
85.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.708	0.185	1.256	0.00	1.50
85.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	10.708	0.185	1.256	0.00	75.80
85.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.708	0.185	1.256	0.00	1.35
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.838	0.191	1.272	0.00	24.60
90.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	10.838	0.191	1.272	0.00	24.60
90.00	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	10.838	0.191	1.272	0.00	8.05
90.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.838	0.191	1.272	0.00	1.65
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.838	0.191	1.272	0.00	1.50
90.00	(2) 3" Conduit	Yes	5.00	0.000	3.50	1.46	0.00	10.838	0.191	1.272	0.00	75.80
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	10.838	0.191	1.272	0.00	1.35
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	0.81	0.00	10.960	0.104	1.012	0.00	24.19
94.92	(6) 1 5/8" Coax	Yes	4.92	0.000	1.98	0.81	0.00	10.960	0.104	1.012	0.00	24.19
94.92	(1) 1 5/8" Fiber	Yes	4.92	0.000	0.00	0.00	0.00	10.960	0.104	1.012	0.00	7.92
94.92	(1) 7/8" Coax	Yes	4.92	0.000	0.00	0.00	0.00	10.960	0.104	1.012	0.00	1.62
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	10.962	0.106	1.017	0.00	0.41
95.00	(6) 1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	10.962	0.106	1.017	0.00	0.41
95.00	(1) 1 5/8" Fiber	Yes	0.08	0.000	0.00	0.00	0.00	10.962	0.106	1.017	0.00	0.13
95.00	(1) 7/8" Coax	Yes	0.08	0.000	0.00	0.00	0.00	10.962	0.106	1.017	0.00	0.03
97.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	11.010	0.106	1.019	0.00	9.84
97.00	(6) 1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	11.010	0.106	1.019	0.00	9.84
97.00	(1) 1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	11.010	0.106	1.019	0.00	3.22
97.00	(1) 7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	11.010	0.106	1.019	0.00	0.66
99.83	(6) 1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	11.077	0.108	1.023	0.00	13.94
99.83	(6) 1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	11.077	0.108	1.023	0.00	13.94
99.83	(1) 1 5/8" Fiber	Yes	2.83	0.000	0.00	0.00	0.00	11.077	0.108	1.023	0.00	4.56
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	11.081	0.107	1.020	0.00	0.82
100.0	(6) 1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	11.081	0.107	1.020	0.00	0.82
100.0	(1) 1 5/8" Fiber	Yes	0.17	0.000	0.00	0.00	0.00	11.081	0.107	1.020	0.00	0.27
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.195	0.108	1.025	0.00	24.60
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.195	0.108	1.025	0.00	24.60
105.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	11.195	0.108	1.025	0.00	8.05
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.305	0.112	1.035	0.00	24.60
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.305	0.112	1.035	0.00	24.60
110.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	11.305	0.112	1.035	0.00	8.05
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.412	0.115	1.046	0.00	24.60
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.412	0.115	1.046	0.00	24.60
115.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	11.412	0.115	1.046	0.00	8.05
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.514	0.119	1.057	0.00	24.60
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.514	0.119	1.057	0.00	24.60
120.0	(1) 1 5/8" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	11.514	0.119	1.057	0.00	8.05
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.614	0.123	1.069	0.00	24.60
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	11.614	0.123	1.069	0.00	24.60

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **21 Iterations**

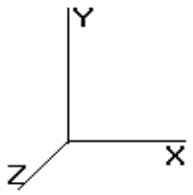
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

125.0	**(1) 1 5/8" Fiber**	**Yes**	**5.00**	**0.000**	**0.00**	**0.00**	**0.00**	**11.614**	**0.123**	**1.069**	**0.00**	**8.05**
										Totals:	**0.00**	**2,741.27**

Pole : 302466
Location : West Service Road, CT
Height : 147.9 (ft)
Base Dia : 56.58 (in)
Top Dia : 26.21 (in)
Shape : 18 Sides
Taper : 0.214565 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : C
Topographic Category : 1
Base Elev : 0.000 (ft)



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 21 Iterations

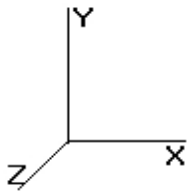
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	126.17	1,127.29	0.00	0.00
10.00	123.75	1,409.49	0.00	0.00
15.00	121.34	1,387.76	0.00	0.00
20.00	126.18	1,366.04	0.00	0.00
25.00	129.57	1,344.31	0.00	0.00
30.00	131.84	1,322.59	0.00	0.00
35.00	133.31	1,300.86	0.00	0.00
40.00	134.15	1,279.14	0.00	0.00
45.00	134.47	1,257.41	0.00	0.00
46.83	48.96	455.61	0.00	0.00
50.00	86.12	1,377.29	0.00	0.00
53.00	81.43	1,288.73	0.00	0.00
55.00	54.08	489.05	0.00	0.00
60.00	135.44	1,207.43	0.00	0.00
65.00	134.46	1,185.70	0.00	0.00
70.00	133.23	1,163.98	0.00	0.00
75.00	131.80	1,142.25	0.00	0.00
80.00	130.17	1,120.53	0.00	0.00
85.00	128.37	1,098.80	0.00	0.00
90.00	436.94	1,903.28	0.00	0.00
94.92	122.23	960.60	0.00	0.00
95.00	2.08	26.58	0.00	0.00
97.00	161.56	811.15	0.00	177.48
99.83	69.95	887.24	0.00	0.00
100.0	4.08	27.82	0.00	0.00
105.0	121.79	825.21	0.00	0.00
110.0	119.32	807.10	0.00	0.00
115.0	1,091.63	2,648.00	0.00	0.00
120.0	114.05	690.60	0.00	0.00
125.0	684.22	1,949.00	0.00	0.00
130.0	108.39	597.15	0.00	0.00
135.0	105.42	579.05	0.00	0.00
136.0	491.77	1,793.64	0.00	395.13
140.0	81.59	417.79	0.00	0.00
145.0	99.24	505.95	0.00	0.00
147.9	523.09	690.15	0.00	980.87
147.9	563.18	2,001.49	0.00	1,172.43
Totals:	7,125.40	40,446.03	0.00	2,725.91

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	**3/19/2014 6:59:25 PM**
Location :	**West Service Road, CT**	**Struct Class : II**	**Page: 35**
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



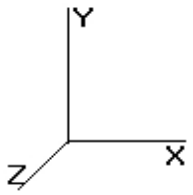
Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **21 Iterations**

Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Calculated Forces

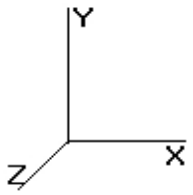
Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-40.44	-7.14	0.00	-730.61	0.00	730.61	4,345.86	2,172.93	10,048.4	5,031.69	0.00	0.00	0.155
5.00	-39.31	-7.04	0.00	-694.92	0.00	694.92	4,297.95	2,148.97	9,746.71	4,880.60	0.02	-0.04	0.152
10.00	-37.90	-6.94	0.00	-659.74	0.00	659.74	4,248.67	2,124.33	9,446.21	4,730.12	0.08	-0.08	0.148
15.00	-36.51	-6.84	0.00	-625.05	0.00	625.05	4,198.03	2,099.01	9,147.11	4,580.35	0.18	-0.11	0.145
20.00	-35.14	-6.73	0.00	-590.86	0.00	590.86	4,146.02	2,073.01	8,849.60	4,431.38	0.32	-0.15	0.142
25.00	-33.79	-6.62	0.00	-557.19	0.00	557.19	4,092.65	2,046.33	8,553.86	4,283.29	0.50	-0.19	0.138
30.00	-32.46	-6.51	0.00	-524.08	0.00	524.08	4,037.92	2,018.96	8,260.07	4,136.18	0.73	-0.23	0.135
35.00	-31.16	-6.39	0.00	-491.54	0.00	491.54	3,981.82	1,990.91	7,968.42	3,990.13	0.99	-0.27	0.131
40.00	-29.87	-6.27	0.00	-459.60	0.00	459.60	3,924.36	1,962.18	7,679.09	3,845.25	1.29	-0.31	0.127
45.00	-28.61	-6.14	0.00	-428.25	0.00	428.25	3,865.54	1,932.77	7,392.25	3,701.62	1.64	-0.35	0.123
46.83	-28.16	-6.10	0.00	-416.99	0.00	416.99	3,843.63	1,921.82	7,287.74	3,649.29	1.77	-0.36	0.122
50.00	-26.78	-6.02	0.00	-397.68	0.00	397.68	3,805.35	1,902.68	7,108.10	3,559.33	2.02	-0.39	0.119
53.00	-25.49	-5.93	0.00	-379.63	0.00	379.63	3,811.38	1,905.69	7,136.13	3,573.37	2.27	-0.41	0.113
55.00	-25.00	-5.89	0.00	-367.77	0.00	367.77	3,786.98	1,893.49	7,023.14	3,516.79	2.45	-0.43	0.111
60.00	-23.79	-5.76	0.00	-338.33	0.00	338.33	3,725.01	1,862.51	6,742.74	3,376.38	2.92	-0.46	0.107
65.00	-22.60	-5.63	0.00	-309.55	0.00	309.55	3,661.69	1,830.84	6,465.44	3,237.53	3.42	-0.50	0.102
70.00	-21.43	-5.50	0.00	-281.41	0.00	281.41	3,597.00	1,798.50	6,191.43	3,100.31	3.96	-0.53	0.097
75.00	-20.29	-5.37	0.00	-253.93	0.00	253.93	3,530.95	1,765.47	5,920.87	2,964.83	4.54	-0.57	0.091
80.00	-19.17	-5.23	0.00	-227.10	0.00	227.10	3,463.53	1,731.77	5,653.95	2,831.18	5.15	-0.60	0.086
85.00	-18.07	-5.10	0.00	-200.93	0.00	200.93	3,394.75	1,697.38	5,390.86	2,699.44	5.80	-0.63	0.080
90.00	-16.16	-4.65	0.00	-175.41	0.00	175.41	3,324.61	1,662.30	5,131.78	2,569.70	6.48	-0.66	0.073
94.92	-15.20	-4.52	0.00	-152.52	0.00	152.52	3,235.43	1,617.71	4,852.78	2,430.00	7.18	-0.69	0.067
95.00	-15.18	-4.52	0.00	-152.15	0.00	152.15	3,233.85	1,616.92	4,848.02	2,427.61	7.19	-0.69	0.067
97.00	-14.37	-4.36	0.00	-142.92	0.00	142.92	3,195.90	1,597.95	4,734.34	2,370.69	7.48	-0.70	0.065
99.83	-13.48	-4.28	0.00	-130.58	0.00	130.58	2,561.72	1,280.86	3,809.83	1,907.74	7.91	-0.72	0.074
100.00	-13.45	-4.28	0.00	-129.87	0.00	129.87	2,559.96	1,279.98	3,803.41	1,904.53	7.93	-0.72	0.073
105.00	-12.63	-4.15	0.00	-108.49	0.00	108.49	2,506.38	1,253.19	3,612.46	1,808.91	8.70	-0.75	0.065
110.00	-11.82	-4.02	0.00	-87.74	0.00	87.74	2,451.43	1,225.72	3,424.36	1,714.72	9.50	-0.78	0.056
115.00	-9.18	-2.90	0.00	-67.62	0.00	67.62	2,395.12	1,197.56	3,239.30	1,622.06	10.33	-0.80	0.046
120.00	-8.50	-2.78	0.00	-53.12	0.00	53.12	2,337.45	1,168.73	3,057.46	1,531.00	11.17	-0.82	0.038
125.00	-6.56	-2.07	0.00	-39.22	0.00	39.22	2,271.20	1,135.60	2,869.91	1,437.09	12.04	-0.83	0.030
130.00	-5.96	-1.95	0.00	-28.88	0.00	28.88	2,192.15	1,096.07	2,672.63	1,338.30	12.92	-0.85	0.024
135.00	-5.38	-1.84	0.00	-19.12	0.00	19.12	2,113.09	1,056.55	2,482.37	1,243.03	13.81	-0.86	0.018
136.00	-3.60	-1.32	0.00	-16.88	0.00	16.88	2,097.28	1,048.64	2,445.16	1,224.40	13.99	-0.86	0.016
140.00	-3.18	-1.23	0.00	-11.60	0.00	11.60	2,034.04	1,017.02	2,299.14	1,151.28	14.71	-0.86	0.012
145.00	-2.67	-1.13	0.00	-5.43	0.00	5.43	1,954.98	977.49	2,122.94	1,063.05	15.62	-0.87	0.006
147.90	-1.99	-0.59	0.00	-1.18	0.00	1.18	1,909.13	954.57	2,023.96	1,013.48	16.15	-0.87	0.002
147.92	0.00	-0.56	0.00	-1.17	0.00	1.17	1,908.86	954.43	2,023.38	1,013.20	16.15	-0.87	0.001

Pole :	**302466**	**Code: ANSI/TIA-222 Rev G**	
Location :	**West Service Road, CT**	**Struct Class : II**	
Height :	**147.9 (ft)**	**Exposure Category : C**	
Base Dia :	**56.58 (in)**	**Topographic Category : 1**	
Top Dia :	**26.21 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**18 Sides**		
Taper :	**0.214565 (in/ft)**		



Analysis Summary

	Reactions						Max Usage	
Load Case	**Shear FX (kips)**	**Shear FZ (kips)**	**Axial FY (kips)**	**Moment MX (ft-kips)**	**Moment MY (ft-kips)**	**Moment MZ (ft-kips)**	**Elev (ft)**	**Interaction Ratio**
1.2D + 1.6W	**30.36**	**0.00**	**48.49**	**0.00**	**0.00**	**3053.71**	**0.00**	**0.62**
0.9D + 1.6W	**28.63**	**0.00**	**36.36**	**0.00**	**0.00**	**2920.88**	**0.00**	**0.59**
1.2D + 1.0Di + 1.0Wi	**8.97**	**0.00**	**88.87**	**0.00**	**0.00**	**924.99**	**0.00**	**0.20**
1.0D + 1.0W	**7.14**	**0.00**	**40.44**	**0.00**	**0.00**	**730.61**	**0.00**	**0.15**



Base Summary

Reactions

Original Design			Analysis			
Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment (kip-ft)	Axial (kip)	Shear (kip)	Moment Design %
3,969.00	39.50	29.40	3,053.71	88.87	30.36	56.99

Base Plate

Yield (ksi)	Thick (in)	Width (in)	Style	Poly Sides	Clip Len (in)	Effective Len (in)	Mu (kip-in)	Phi Mn (kip-in)	Ratio
60.0	2.500	69.000	Round	0	0.00	11.224	484.63	946.99	0.51

Anchor Bolts

								Start	Compression			Tension		
Bolt Circle	Num Bolts	Bolt Type	Bolt Dia (in)	Yield (ksi)	Ultimate (ksi)	Arrange	Cluster Dist (in)	Angle (deg)	Force (kip)	Allow (kip)	Ratio	Force (kip)	Allow (kip)	Ratio
63.00	16	2.25" 18J	2.25	75.00	100.00	Radial	0.00	0.0	150.97	260.00	0.60	139.86	260.00	0.55

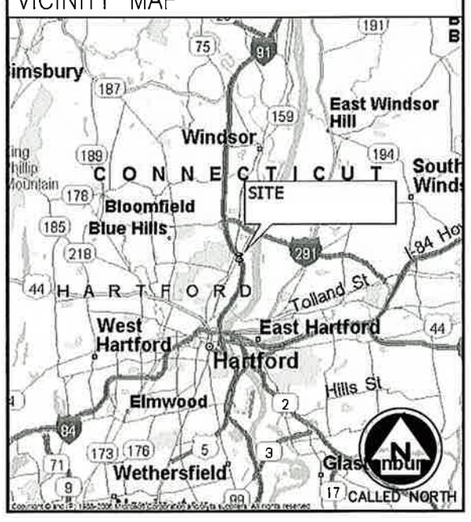
T-MOBILE NORTHEAST LLC

CT11491B
CT491/SSITE HARTFORD_MP1

305 W. SERVICE ROAD
HARTFORD, CT 06120

(2C CONFIGURATION)

VICINITY MAP



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL:
"CALL BEFORE YOU DIG"
WWW.CBYD.COM
CALL 811, OR 1-800-922-4455
CALL THREE WORKING DAYS PRIOR TO DIGGING
SAFETY PRECAUTIONS SHALL BE IMPLEMENTED BY CONTRACTOR(S) AT ALL TRENCHING IN ACCORDANCE WITH CURRENT OSHA STANDARDS.

COLOR CODE FOR UTILITY LOCATIONS

ELECTRIC	– RED	SEWER	– GREEN
GAS/OIL	– YELLOW	SURVEY	– PINK
TEL/CATV	– ORANGE	PROPOSED EXCAVATION	– WHITE
WATER	– BLUE	RECLAIMED WATER	– PURPLE

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES. RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONSTRUCT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE T–MOBILE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXPENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING OF ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND INSPECTIONS WHICH ARE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC., DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS, AS WELL AS THE LATEST EDITIONS OF ANY PERTINENT STATE SAFETY REGULATIONS.
14. THE CONTRACTOR SHALL NOTIFY THE T–MOBILE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE T–MOBILE REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC., ON THE JOB.
16. THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF WORK.

PROJECT SUMMARY

SITE NUMBER:	CT11491B	APPLICANT:	T–MOBILE NORTHEAST LLC 35 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002 (860)–692–7100
SITE NAME:	CT491/SSITE HARTFORD_MP1		
SITE ADDRESS:	305 W. SERVICE ROAD HARTFORD, CT 06120		
PROPERTY OWNER:	TBD	PROJECT MANAGER:	AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN, MA 01801
PARCEL:	TBD	CONTACT:	TARA RUSSO 717–695–2942
CURRENT ZONING:	TBD		
JURISDICTION:	TBD	ARCHITECT/ENGINEER:	INFINIGY ENGINEERING 1033 WATERVLIET SHAKER ROAD ALBANY, NY 12205
ATC SITE NUMBER:	302466		
LAT./LONG.:	N 41.79980° / W 72.65690°	CONTACT:	AJ DESANTIS 518–690–0790
CONSTRUCTION TYPE:	–		
USE GROUP:	–		

PROJECT DESCRIPTION

☒ EXISTING MONOPOLE	☒ EXISTING CABINET(S)	☒ OUTDOOR
☐ EXISTING LATTICE TOWER	☐ EXISTING RBS 2106	☐ INDOOR
☐ EXISTING TRANSMISSION TOWER	☐ EXISTING RBS 3106	☒ EXISTING CONCRETE PAD
☐ EXISTING WATER TANK	☐ PROPOSED RBS 6102	☐ EXISTING STEEL PLATFORM
☐ EXISTING BUILDING	☐ SITE SUPPORT KIT	☒ EXISTING PPC
☐ EXISTING FLAGPOLE	☐ SITE SUPPORT CABINET	☐ PANELBOARD
☐ EXISTING FORT WORTH	☒ GPS	

T–MOBILE NORTHEAST LLC PROPOSES THE MODIFICATION OF AN UNMANNED WIRELESS BROADBAND FACILITY. REPLACEMENT OF EXISTING PANEL ANTENNAS & TMA'S WITH PROPOSED AIR21 PANEL ANTENNAS AND ASSOCIATED CABLING. REUSE EXISTING GPS ANTENNA AND EXISTING EQUIPMENT CABINETS.

SHEET INDEX

SHEET	DESCRIPTION	REVISION
T–1	TITLE SHEET	0
C–1	SITE PLAN	0
C–2	COMPOUND PLAN & ELEVATION	0
C–3	ANTENNA DETAIL & RF SCHEDULE	0
S–1	EQUIPMENT SPECIFICATIONS	0
E–1	GROUNDING AND POWER DIAGRAMS	0
E–2	COAX/FIBER PLUMBING DIAGRAM	0
N–1	GENERAL AND ELECTRICAL NOTES	0

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

INFINIGY Design. Build. Deliver.
1033 WATERVLIET SHAKER ROAD
ALBANY, NY 12205
OFFICE: (518) 690–0790
FAX: (518) 690–0793

SUBMITTALS

DATE	DESCRIPTION	REVISION
3/28/14	REVIEW	A
4/11/14	FOR PERMIT	0

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

PROJECT NO:	317-1169
DRAWN BY:	JLM
CHECKED BY:	AJD

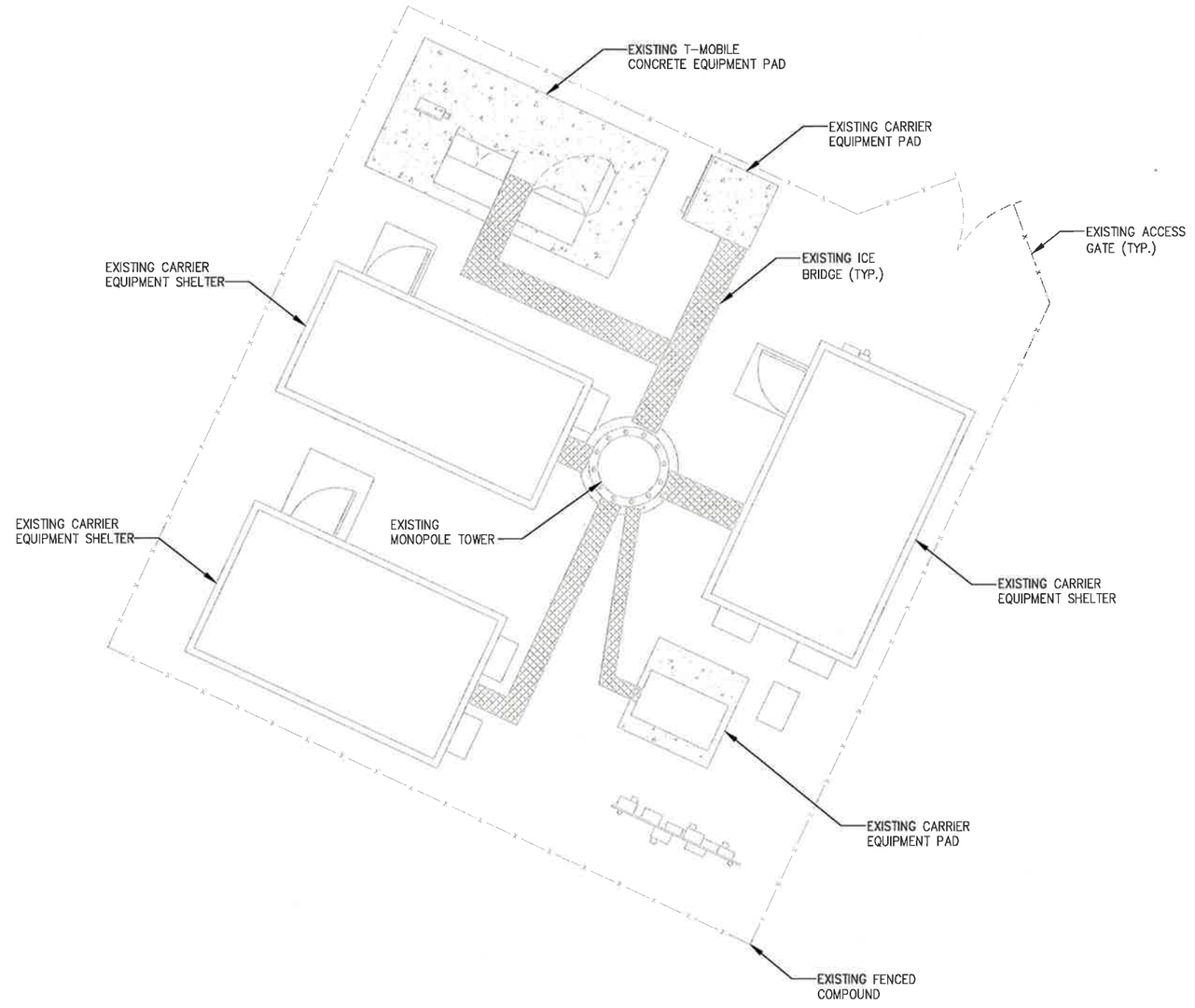
STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24705
LICENSED PROFESSIONAL ENGINEER

NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

SITE NAME
CT11491B
CT491/SSITE HARTFORD_MP1
305 W. SERVICE ROAD
HARTFORD, CT 06120

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1
SHEET 1 OF **8** SHEETS



CALLED NORTH

1 SITE PLAN
SCALE: AS NOTED

GENERAL SITE NOTES:

1. A COMPLETE BOUNDARY SURVEY OF THE HOST PARCEL HAS NOT BEEN PERFORMED BY INFINIGY ENGINEERING. BOUNDARY INFORMATION WAS OBTAINED FROM INFORMATION PROVIDED BY OTHERS. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
2. BASEMAPPING INFORMATION BASED ON PROVIDED INFORMATION.
3. CONTRACTOR TO FIELD VERIFY DIMENSIONS AS NECESSARY BEFORE CONSTRUCTION.
4. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE SIGNS OF ADVERTISING.
5. THE PROPOSED DEVELOPMENT IS UNMANNED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL.
6. NO LANDSCAPING WORK IS PROPOSED IN CONJUNCTION WITH THIS DEVELOPMENT OTHER THAN THAT WHICH IS SHOWN.
7. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
8. UTILITIES SHOWN ON PLAN ARE TAKEN FROM OWNERS RECORDS AND FIELD LOCATION OF VISIBLE SURFACE FEATURES. THE EXISTENCE, EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST CONTACT MISS UTILITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.
9. ALL OBSOLETE OR UNUSED FACILITIES SHALL BE REMOVED WITHIN 12 MONTHS OF CESSATION OF OPERATIONS.

SITE LEGEND

- SITE PROPERTY LINE
- STREET OR ROAD
- CHAIN LINK FENCE
- OPAQUE WOODEN FENCE
- BOARD ON BOARD FENCE
- DECIDUOUS TREES/SHRUBS
- EVERGREEN TREES/SHRUBS
- TREE LINE
- UTILITY POLE
- (E) EXISTING
- (N) NEW
- (P) PROPOSED
- (F) FUTURE
- PROP. GSM ANTENNA
- PROP. UMTS ANTENNA
- EX. GSM ANTENNA
- EX. UMTS ANTENNA

GRAPHIC SCALE

10' 5' 0 5' 10'

SCALE (11x17): 1" = 10'-0"
SCALE (22x34): 1" = 5'-0"

T-Mobile
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SUBMITTALS

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

PROJECT NO:	317-1169
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STATE OF CONNECTICUT
JOHN S. STEVENS
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PROFESSIONAL ENGINEER

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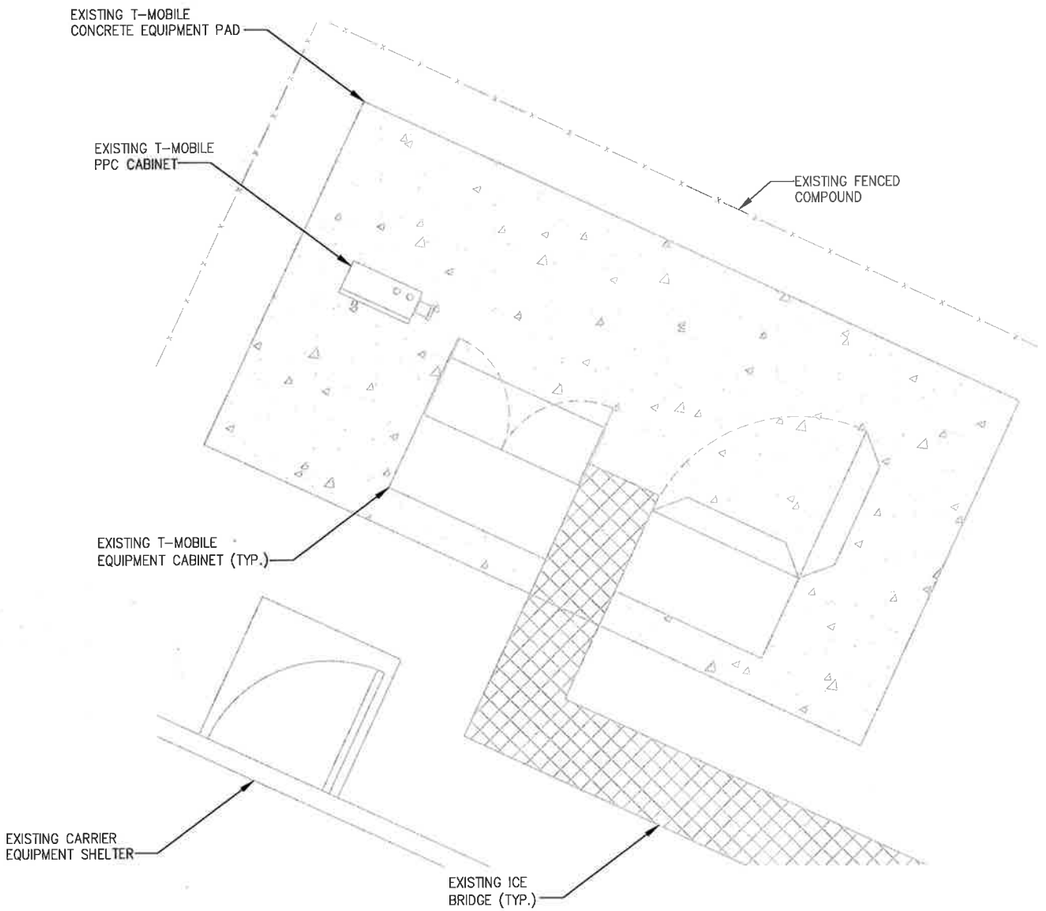
SITE NAME
CT11491B
CT491/SSITE HARTFORD_MP1
305 W. SERVICE ROAD
HARTFORD, CT 06120

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1
SHEET 2 OF 8 SHEETS



CALLED NORTH

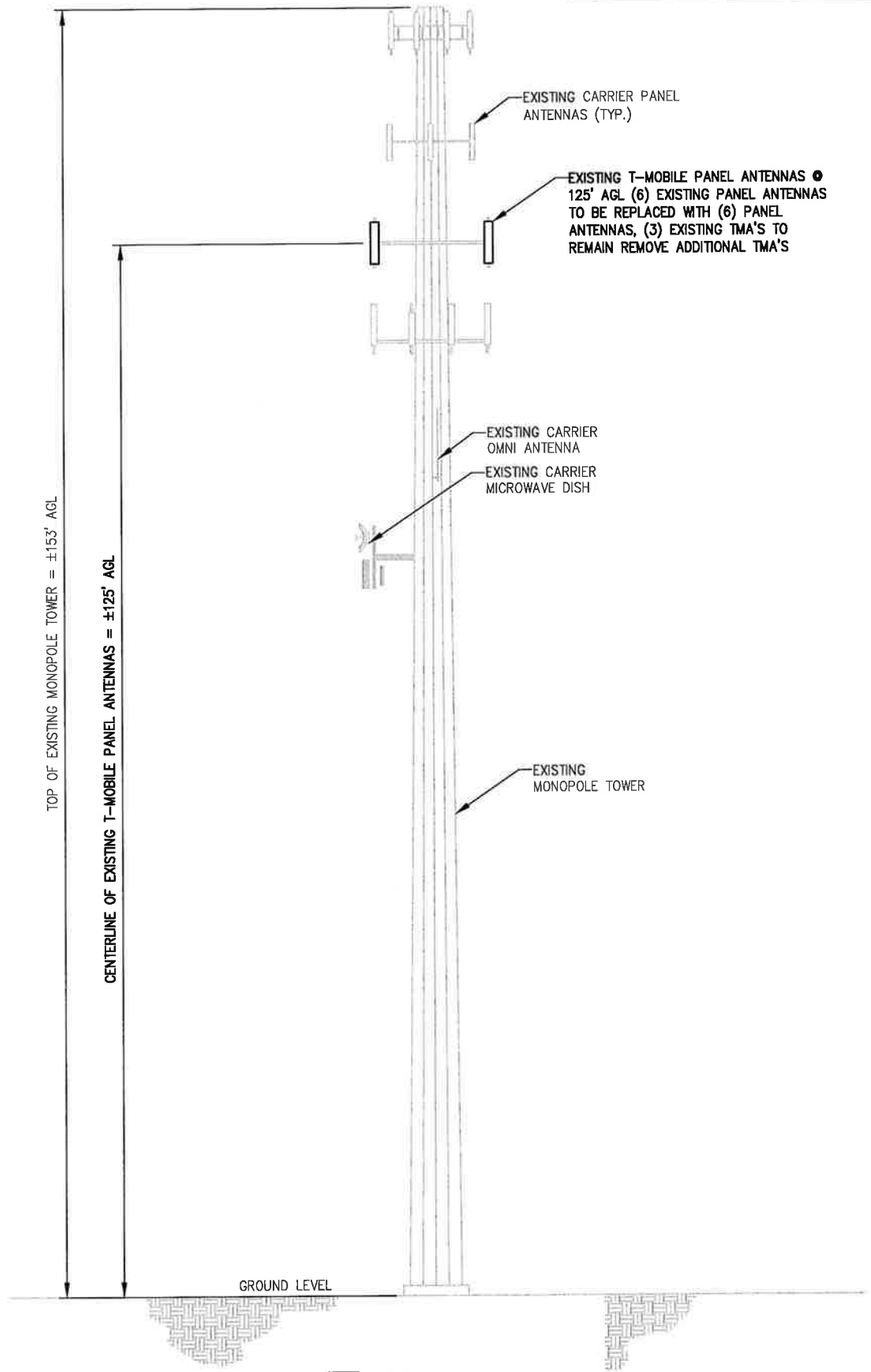
1 COMPOUND PLAN
SCALE: AS NOTED

GRAPHIC SCALE

4' 2' 0 2' 4'

SCALE (11x17): 1" = 4'-0"
SCALE (22x34): 1" = 2'-0"

NOTE:
INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR LOADING FOR THIS SITE, AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY REGARDING ITS EXISTING OR PROPOSED LOADING. FINAL INSTALLATION TO COMPLY WITH RESULTS OF PASSING STRUCTURAL ANALYSIS.



2 TOWER ELEVATION
NOT TO SCALE

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SUBMITTALS

DATE	DESCRIPTION	REVISION
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4/11/14	FOR PERMIT	0

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

PROJECT NO:	317-1169
DRAWN BY:	JLM
CHECKED BY:	AJD

STATE OF CONNECTICUT
JOHN S. STEVENS
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NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

SITE NAME
CT11491B
CT491/SSITE HARTFORD_MP1
305 W. SERVICE ROAD
HARTFORD, CT 06120

SHEET TITLE
COMPOUND PLAN & ELEVATION

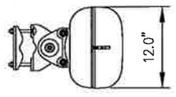
SHEET NUMBER
C-2
SHEET 3 OF 8 SHEETS

RF SYSTEM SCHEDULE (2C CONFIGURATION)

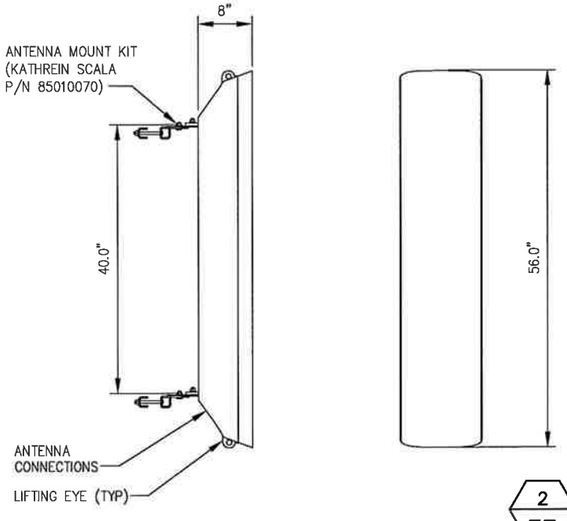
SECTOR	TECHNOLOGY	ANTENNA PORT	BAND	ANTENNA MODEL #	VENDOR	AZIMUTH	M-TILT	E-TILT	ANTENNA CENTERLINE	TMA MODEL #	VENDOR	CABLE LENGTH	CABLE DIAMETER	CABLE TYPE	CABLE MODEL #	VENDOR	CABLE TAGGING	COLOR CODING	JUMPER TYPE	JUMPER TAGGING	COLOR CODING
A	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	140°	0°	2°	125'-0"	*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	–							–	–	*EXISTING*	1-5/8"	*COAX*	*EXISTING*	*N/A*	LMU A1	–	*COAX*	LMU A1	–
		LMU #2										*EXISTING*	1-5/8"	*COAX*	*EXISTING*	*N/A*	LMU A2	–	*COAX*	LMU A2	–
	GSM	**OPTICAL #1**	**B2A**							–	–	**168'±**	**–**	**HYBRID**	**MASTERLINE EXTREME HYBRID (9x18)**	**ERICSSON**	**FIBER 1**	**O**	**FIBER**	**GSM 1900 A1**	**R**
	UMTS	**OPTICAL #2**																	**FIBER**	**UMTS 1900 A2**	**G**
	LTE AWS	**OPTICAL #1**	**B4A**	AIR21	ERICSSON	140°	0°	2°	125'-0"	–	–								**FIBER**	**LTE FIBER 1**	**Y**
B	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	250°	0°	2°	125'-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	–							–	–	*EXISTING*	1-5/8"	*COAX*	*EXISTING*	*N/A*	LMU B1	–	*COAX*	LMU B1	–
		LMU #2										*EXISTING*	1-5/8"	*COAX*	*EXISTING*	*N/A*	LMU B2	–	*COAX*	LMU B2	–
	GSM	**OPTICAL #1**	**B2A**							–	–	**(ANTENNA CONNECTED VIA SINGLE SHARED MLE HYBRID GEN2 CABLE. SEE SECTOR "A")**							**HYBRID**	**GSM 1900 B1**	**RR**
	UMTS	**OPTICAL #2**																	**HYBRID**	**UMTS 1900 B2**	**GG**
	LTE AWS	**OPTICAL #1**	**B4A**	AIR21	ERICSSON	250°	0°	2°	125'-0"	–	–								**HYBRID**	**LTE FIBER 2**	**YY**
C	UMTS AWS	RF #1	B4P	AIR21	ERICSSON	350°	0°	2°	125'-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	–							–	–	*EXISTING*	1-5/8"	*COAX*	*EXISTING*	*N/A*	LMU C1	–	*COAX*	LMU C1	–
		LMU #2										*EXISTING*	1-5/8"	*COAX*	*EXISTING*	*N/A*	LMU C2	–	*COAX*	LMU C2	–
	GSM	**OPTICAL #1**	**B2A**							–	–	**(ANTENNA CONNECTED VIA SINGLE SHARED MLE HYBRID GEN2 CABLE. SEE SECTOR "A")**							**HYBRID**	**GSM 1900 C1**	**RRR**
	UMTS	**OPTICAL #2**																	**HYBRID**	**UMTS 1900 C2**	**GGG**
	LTE AWS	**OPTICAL #1**	**B4A**	AIR21	ERICSSON	350°	0°	2°	125'-0"	–	–								**HYBRID**	**LTE FIBER 3**	**YYY**

1 RF SCHEDULE
NOT TO SCALE

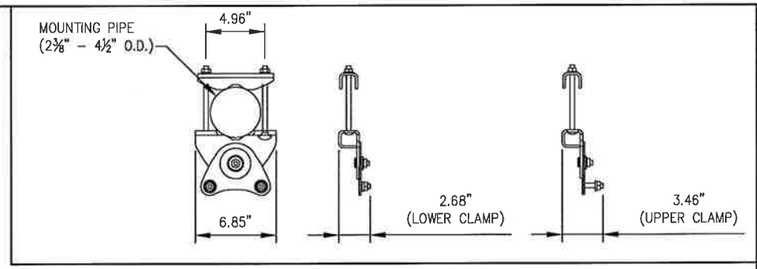
KEY	
EXISTING	R – RED – GSM
PROPOSED	G – GREEN – UMTS 1900
FIBER CONNECTION	B – BLUE – UMTS AWS
	Y – YELLOW – LTE
	O – ORANGE – FIBER CABLE

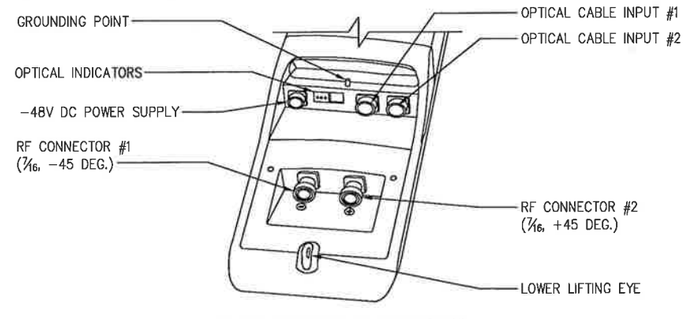


AIR21 "ANTENNA INTEGRATED RADIO"
WEIGHT: 83LBS (MAX)

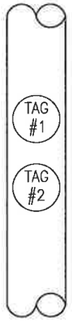


2 ANTENNA DETAIL
NOT TO SCALE



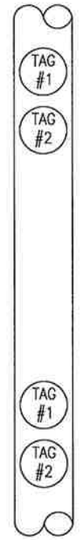


ANTENNA CONNECTION INTERFACE DETAIL
NOT TO SCALE



METALLIC TAG NOTES:

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



3 METALLIC TAG DETAIL
NOT TO SCALE

T-Mobile
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35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002

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SUBMITTALS		
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4/11/14	FOR PERMIT	0

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

PROJECT NO: 317-1169
DRAWN BY: JLM
CHECKED BY: AJD

STATE OF CONNECTICUT
JOHN S. STEVENS
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LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL SEAL

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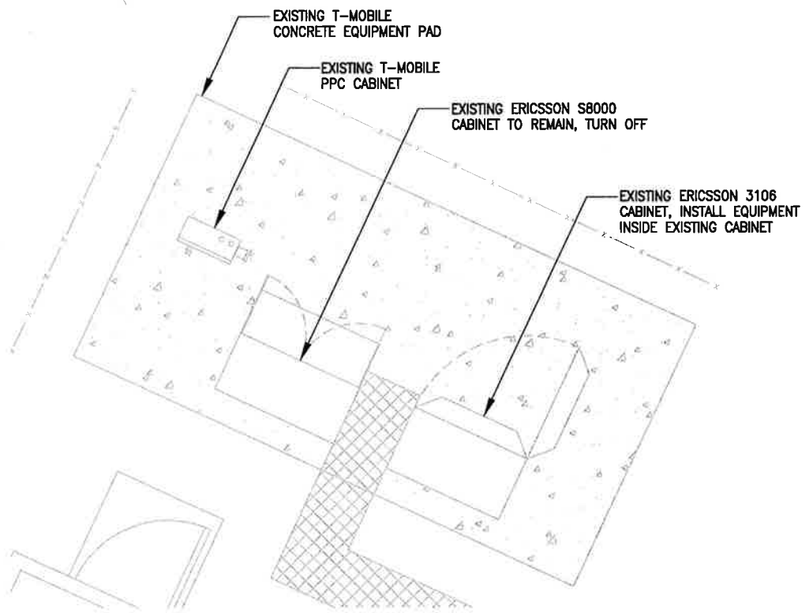
SITE NAME
CT11491B
CT491/SSITE HARTFORD_MP1
305 W. SERVICE ROAD
HARTFORD, CT 06120

SHEET TITLE
ANTENNA DETAIL & RF SCHEDULE

SHEET NUMBER
C-3
SHEET 4 OF **8** SHEETS

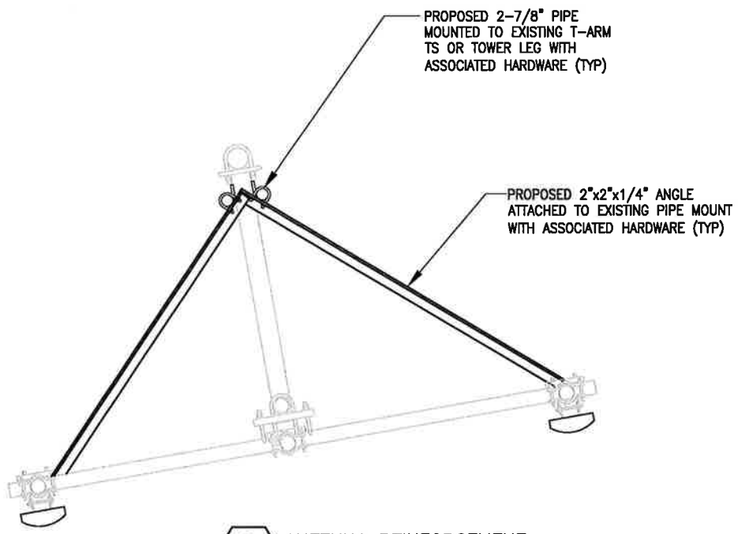


1 EQUIPMENT PAD LAYOUT PLAN
NOT TO SCALE

2 NOT USED
NOT TO SCALE

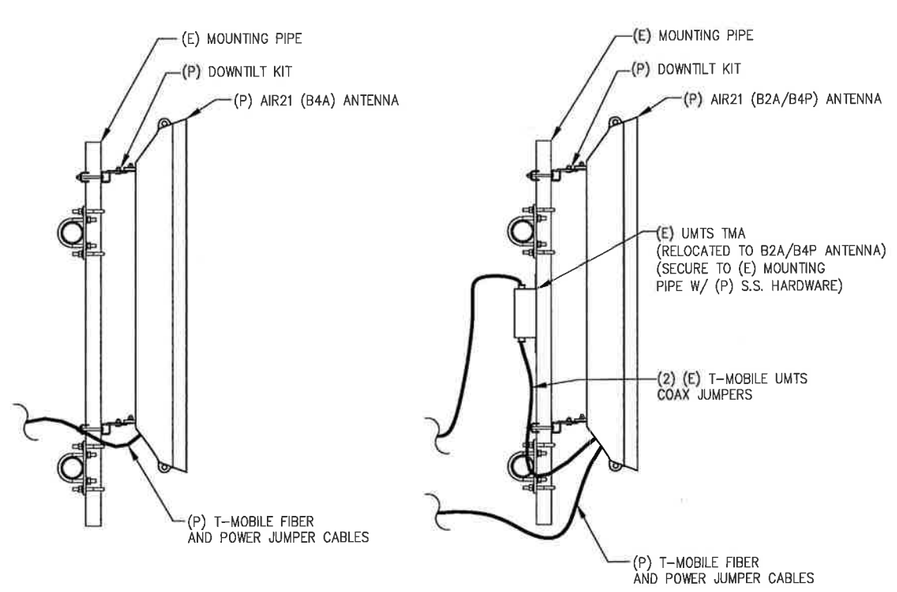
STRUCTURAL NOTES:

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: fc' - 3000psi. (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"ø x 43/4" EMBEDMENT OR AN APPROVED EQUAL.



3 ANTENNA REINFORCEMENT
NOT TO SCALE

*USE WHEN EXISTING ANTENNA PIPE MOUNT HAS ONLY ONE POINT OF ATTACHMENT



4 ANTENNA MOUNTING DETAIL
NOT TO SCALE

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

PROJECT NO:	317-1169
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STATE OF CONNECTICUT
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CT491/SSITE HARTFORD_MP1
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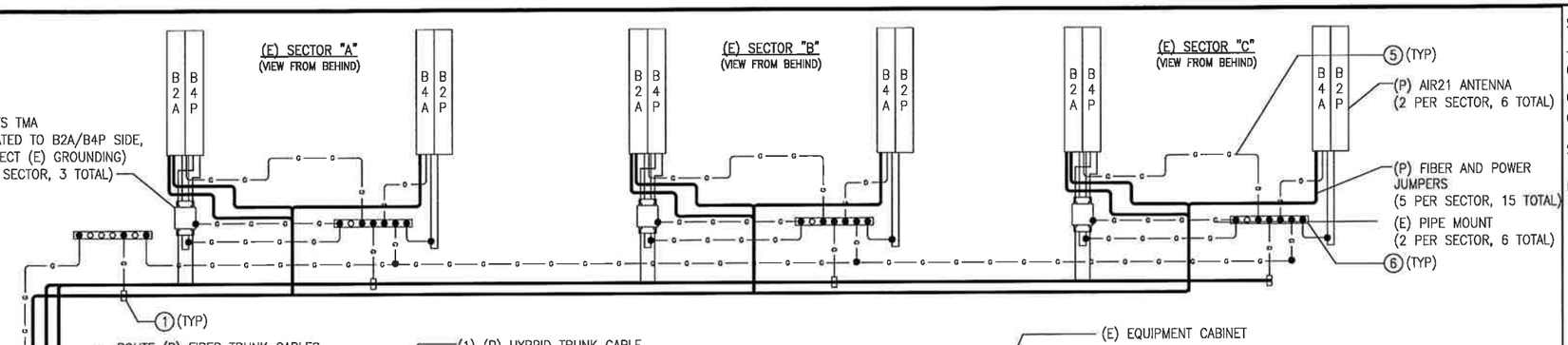
SHEET TITLE
EQUIPMENT SPECIFICATIONS

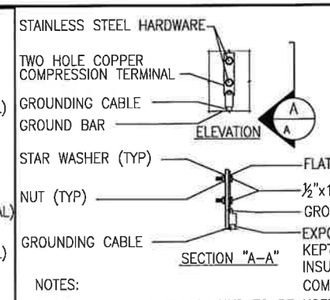
SHEET NUMBER
S-1
SHEET 5 OF **8** SHEETS



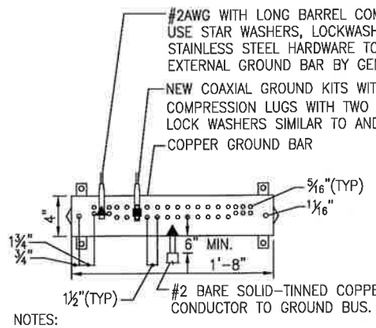
GROUNDING SCHEDULE	
(1)	(P) STANDARD GROUNDING KIT (COMMSCOPE PART #UG1215B-15B4-T OR EQUIV.)
(2)	(E) MGB (BUSSBAR #1)
(3)	(E) EQUIPMENT GROUNDING
(4)	(P) #2AWG BARE TINNED SOLID COPPER CONDUCTOR BONDED TO GROUND RING (GROUND CABINETS PER MANU. SPECS)
(5)	GROUND (P) ANTENNA PER MANU. SPECS
(6)	(E) SECTOR GROUND BAR

NOTES:
A. PROVIDE #2AWG GROUNDING CONDUCTOR, U.O.N.
B. DO NOT INSTALL GROUND KIT AT BEND. DIRECT GROUND WIRE DOWN TO ANTENNA BUSSBAR.

1 GROUNDING DIAGRAM
SCALE: NOT TO SCALE



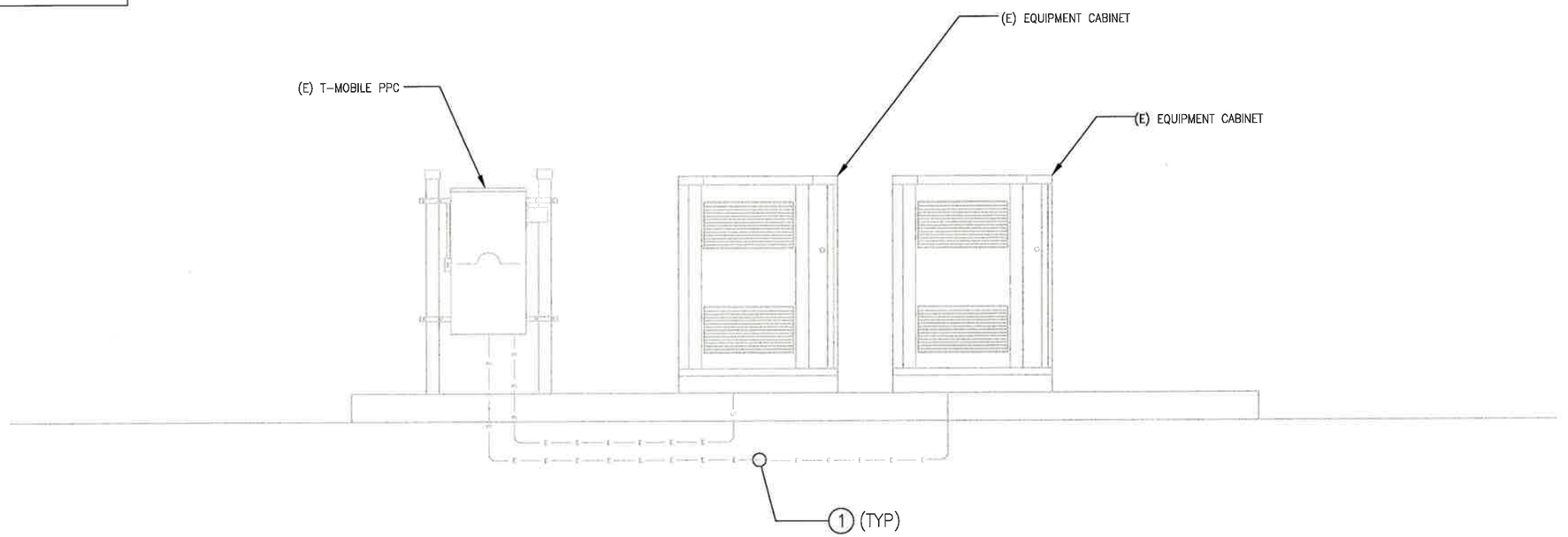
NOTES:
1. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.



NOTES:
1. ALL HARDWARE STAINLESS STEEL COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
2. FOR GROUND BOND TO STEEL ONLY: INSERT A TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
3. ALL HOLES ARE COUNTERSUNK 1/16".

2 GROUND BAR CONNECTION DETAILS
SCALE: NOT TO SCALE

CONDUIT SCHEDULE	
(1)	(E) POWER CONDUIT



3 POWER DIAGRAM
SCALE: NOT TO SCALE

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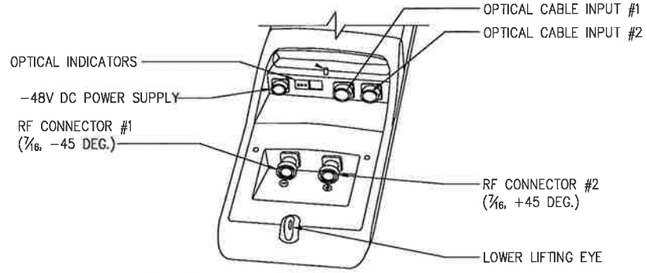
SHEET TITLE
GROUNDING & POWER DIAGRAMS

SHEET NUMBER
E-1
SHEET 6 OF **8** SHEETS



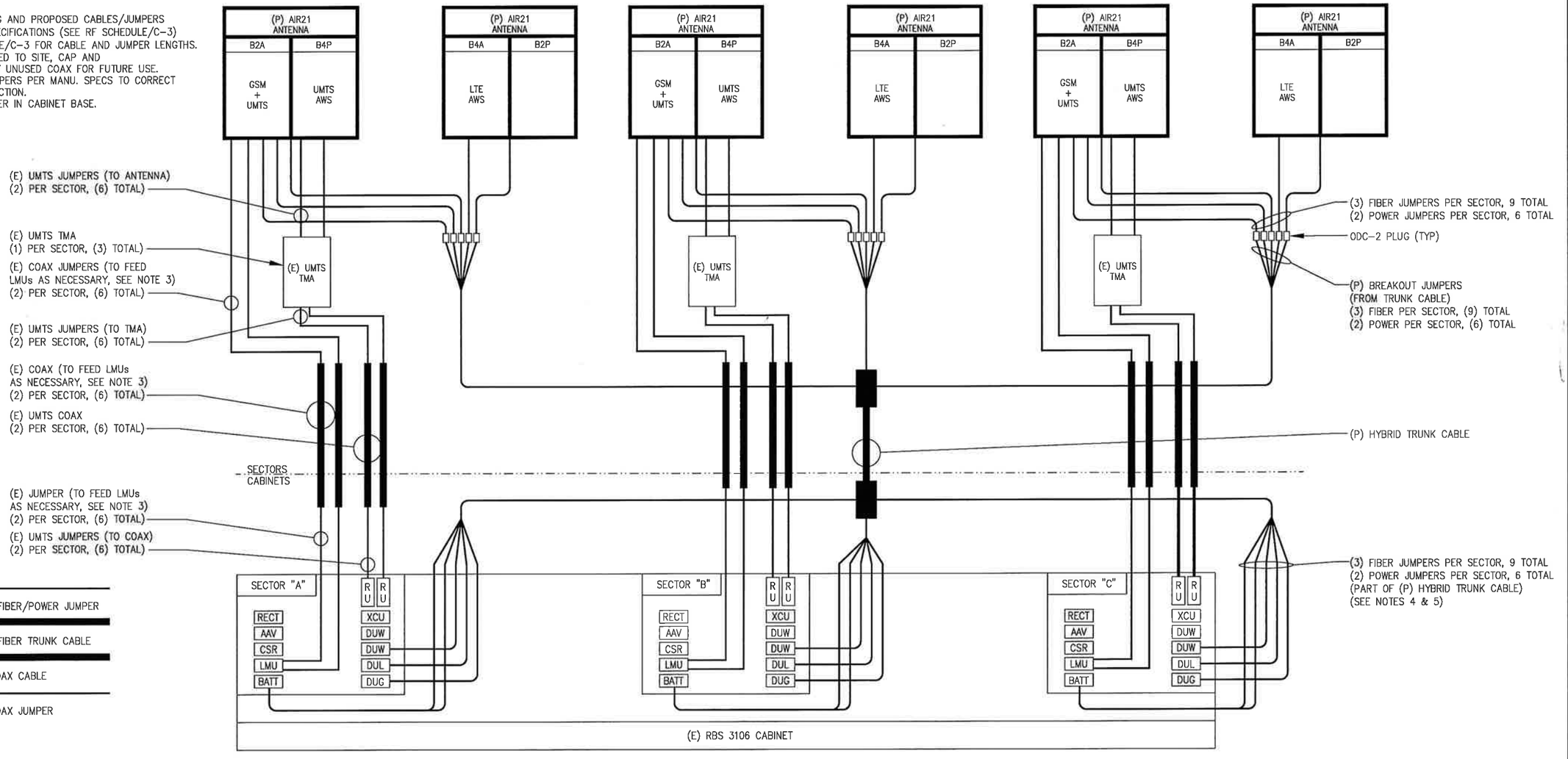
1 ANTENNA CONNECTION INTERFACE
-- NOT TO SCALE

SECTOR "A" (VIEW FROM BEHIND)

SECTOR "B" (VIEW FROM BEHIND)

SECTOR "C" (VIEW FROM BEHIND)

NOTES:
1. TAG ALL EXISTING AND PROPOSED CABLES/JUMPERS PER T-MOBILE SPECIFICATIONS (SEE RF SCHEDULE/C-3)
2. SEE RF SCHEDULE/C-3 FOR CABLE AND JUMPER LENGTHS.
3. IF NEW GPS ADDED TO SITE, CAP AND WEATHERPROOF ANY UNUSED COAX FOR FUTURE USE.
4. TRIM POWER JUMPERS PER MANU. SPECS TO CORRECT LENGTH FOR CONNECTION.
5. COIL EXCESS FIBER IN CABINET BASE.



PROPOSED FIBER/POWER JUMPER

PROPOSED FIBER TRUNK CABLE

EXISTING COAX CABLE

EXISTING COAX JUMPER

3 2C CONFIGURATION COAX/FIBER PLUMBING DIAGRAM
-- NOT TO SCALE

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

INFINIGY Design. Build. Deliver.
1033 WATERVLIET SHAKER ROAD
ALBANY, NY 12205
OFFICE: (518) 690-0790
FAX: (518) 690-0793

SUBMITTALS

DATE	DESCRIPTION	REVISION
1/28/14	REVIEW	A
4/11/14	FOR PERMIT	0

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

PROJECT NO:	317-1169
DRAWN BY:	JLM
CHECKED BY:	AJD

STATE OF CONNECTICUT JOHN S. STEVENS No. 24705 LICENSED PROFESSIONAL ENGINEER
PROFESSIONAL SEAL

NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

SITE NAME
CT11491B
CT491/SSITE HARTFORD_MP1
305 W. SERVICE ROAD
HARTFORD, CT 06120

SHEET TITLE
COAX/FIBER PLUMBING DIAGRAM

SHEET NUMBER
E-2
SHEET 7 OF 8 SHEETS

ELECTRICAL NOTES:

WORK INCLUDED
1. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, PLANT SERVICES AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE THE ELECTRICAL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   A. PREPARE AND SUBMIT SHOP DRAWINGS, DIAGRAMS AND ILLUSTRATIONS.
   B. PROCURE ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL REQUIRED FEES AND CHARGES IN CONNECTION WITH THE WORK OF THIS CONTRACT.
   C. SUBMIT AS-BUILT DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUALS.
   D. EXECUTE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING OF EXISTING OR NEWLY INSTALLED CONSTRUCTION REQUIRED FOR THE WORK OF THIS CONTRACT. FOR SLAB PENETRATIONS THROUGH POST TENSION SLABS, X-RAY EXACT AREA OF PENETRATION PRIOR TO PERFORMING WORK. COORDINATE ALL X-RAY WORK WITH BUILDING ENGINEER.
   E. PROVIDE HANGERS, SUPPORTS, FOUNDATIONS, STRUCTURAL FRAMING SUPPORTS, AND BASES FOR CONDUIT AND EQUIPMENT PROVIDED OR INSTALLED UNDER THE WORK OF HIS CONTRACT. PROVIDE COUNTER FLASHING, SLEEVES AND SEALS FOR FLOOR AND WALL PENETRATIONS.
   F. MAINTAIN ALL EXISTING ELECTRICAL SERVICES IN THE BUILDING AREAS NOT AFFECTED BY THE ALTERATION DURING THE PROGRESS OF THE WORK INCLUDING PROVIDING ALL TEMPORARY JUMPERS, CONDUITS, CAPS, PROTECTIVE DEVICES, CONNECTIONS AND EQUIPMENT REQUIRED. PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION PURPOSES.
2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATIONS. IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS, IT IS CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.

GENERAL REQUIREMENTS
1. PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL AND STATE ELECTRICAL CODES.
2. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING.
3. LOAD CALCULATIONS ARE BASED ON EXISTING BUILDING INFORMATION/DRAWINGS PROVIDED TO ENGINEERING. CONTRACTOR IS TO VERIFY ALL EXISTING RATINGS AND LOADS PRIOR TO PURCHASING OF SPECIFIED EQUIPMENT FOR COMPLIANCE TO NEC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES AND REQUEST FURTHER DIRECTION BY ENGINEER.
4. EXISTING BUILDING EQUIPMENT IS NOTED ON THE DRAWINGS. NEW OR RELOCATED EQUIPMENT IS SHOWN WITH SOLID LINES. FUTURE EQUIPMENT (NOT IN THIS CONTRACT) IS DEPICTED WITH SHADED LINES. REQUEST CLARIFICATION OF DRAWINGS OR OF SPECIFICATIONS PRIOR TO PRICING OR INSTALLATION.
5. GENERAL
   A. AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND BEFORE SUBMITTING THE PROPOSAL, MAKE A MANDATORY SITE VISIT TO ASCERTAIN CONDITIONS OF THE SITE, AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO NOTIFY THE OWNER, IN WRITING, OF ANY DISCREPANCIES THAT MAY HAVE BEEN NOTED BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS AND SPECIFICATIONS.
   B. VERIFY ALL MEASUREMENTS AT THE SITE AND BE RESPONSIBLE FOR CORRECTNESS OF SAME.
6. QUALITY, WORKMANSHIP, MATERIALS AND SAFETY
   A. PROVIDE NEW MATERIALS AND EQUIPMENT OF A DOMESTIC MANUFACTURER BY THOSE REGULARLY ENGAGED IN THE PRODUCTION AND MANUFACTURE OF SPECIFIED MATERIALS AND EQUIPMENT. WHERE UL, OR OTHER AGENCY, HAS ESTABLISHED STANDARDS FOR MATERIALS, PROVIDE MATERIALS WHICH ARE LISTED AND LABELED ACCORDINGLY. THE COMMERCIALLY STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES MENTIONED HEREIN ARE INTENDED FOR THE PROPER FUNCTIONING OF THE WORK.
   B. WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE REQUIRED FOR THE WORK. INSTALL MATERIALS AND EQUIPMENT TO PRESENT A NEAT APPEARANCE WHEN COMPLETED AND IN ACCORDANCE WITH THE APPROVED RECOMMENDATIONS OF THE MANUFACTURER AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
   C. PROVIDE LABOR, MATERIALS, APPARATUS AND APPLIANCES ESSENTIAL TO THE FUNCTIONING OF THE SYSTEMS DESCRIBED OR INDICATED HEREIN, OR WHICH MAY BE REASONABLY IMPLIED AS ESSENTIAL WHENEVER MENTIONED IN THE CONTRACT DOCUMENT OR NOT.
   D. MAKE WRITTEN REQUESTS FOR SUPPLEMENTARY INSTRUCTIONS TO ARCHITECT/ENGINEER IN CASE OF DOUBT AS TO WORK INTENDED OR IN EVENT OF NEED FOR EXPLANATION THEREOF.
   E. PERFORMANCE AND MATERIAL REQUIREMENTS SCHEDULED OR SPECIFIED ARE MINIMUM STANDARD ACCEPTABLE. THE RIGHT TO JUDGE THE QUALITY OF EQUIPMENT THAT DEVIATES FROM THE CONTRACT DOCUMENT REMAINS SOLELY WITH ARCHITECT/ENGINEER. CONTRACT DOCUMENT OR NOT.

GUARANTEE
1. GUARANTEE MATERIALS, PARTS AND LABOR FOR WORK FOR ONE YEAR FROM THE DATE OF ISSUANCE OF OCCUPANCY PERMIT. DURING THAT PERIOD, MAKE GOOD FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP WITH NO ADDITIONAL COMPENSATION AND AS DIRECTED BY ARCHITECT.

CLEANING
1. REMOVE ALL CONSTRUCTION DEBRIS RESULTING FROM THE WORK.
2. CLEAN EQUIPMENT AND SYSTEMS FOLLOWING THE COMPLETION OF THE PROJECT TO THE SATISFACTION OF THE ENGINEER.

COORDINATION AND SUPERVISION
1. CAREFULLY LAY OUT ALL WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS NECESSARY, HOWEVER, PATCH AND REPAIR THE WORK IN AN APPROVED MANNER BY SKILLED MECHANICS AT NO ADDITIONAL COST TO THE OWNER. RENDER FULL COOPERATION TO OTHER TRADES WHERE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. ASSIST IN WORKING OUT SPACE CONDITIONS. IF WORK IS INSTALLED BEFORE COORDINATION WITH OTHER TRADES, OR CAUSES INTERFERENCE, MAKE CHANGES NECESSARY TO CORRECT CONDITIONS WITHOUT EXTRA CHARGE.

SUBMITTALS
1. AS-BUILT DRAWINGS:
   A. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER "AS-BUILT" DRAWINGS.
2. SERVICE MANUALS:
   A. UPON COMPLETION OF THE WORK, FULLY INSTRUCT T-MOBILE AS TO THE OPERATION AND MAINTENANCE OF ALL MATERIAL, EQUIPMENT AND SYSTEMS.
   B. PROVIDE 3 COMPLETE BOUND SETS OF INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT.

CUTTING AND PATCHING
1. PROVIDE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING REQUIRED TO COMPLETE THE WORK.
2. OBTAIN OWNER APPROVAL PRIOR TO CUTTING THROUGH FLOORS OR WALLS FOR PIPING OR CONDUIT.

TESTS, INSPECTION AND APPROVAL
1. BEFORE ENERGIZING ANY ELECTRICAL INSTALLATION, INSPECT EACH UNIT IN DETAIL. TIGHTEN ALL BOLTS AND CONNECTIONS (TORQUE-TIGHTEN WHERE REQUIRED) AND DETERMINE THAT ALL COMPONENTS ARE ALIGNED, AND THE EQUIPMENT IS IN SAFE, OPERATIONAL CONDITION.
2. PROVIDE THE COMPLETE ELECTRICAL SYSTEM FREE OF GROUND FAULTS AND SHORT CIRCUITS SUCH THAT THE SYSTEM WILL OPERATE SATISFACTORILY UNDER FULL LOAD CONDITIONS, WITHOUT EXCESSIVE HEATING AT ANY POINT IN THE SYSTEM.

SPECIAL REQUIREMENTS
1. DO NOT LEAVE ANY WORK INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. DO NOT INTERFERE WITH OR CUTOFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION.
2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND SERVICE SYSTEMS, INCLUDING FEEDER OR BRANCH CIRCUITING SUPPLYING EXISTING FACILITIES, CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON. SHUTDOWN NOTE: SCHEDULE AND NOTIFY OWNER 48 HOURS PRIOR TO SHUTDOWN. ALL SHUTDOWN WORK TO BE SCHEDULED AT A TIME CONVENIENT TO OWNER.

GROUNDING
1. ROUTE ALL GROUNDING CONDUCTORS AS SHOWN ON CONDUIT/GROUNDING RISER.
2. ROUTE 500 KCMIL CU. THHN CONDUCTOR FROM THE MGB LOCATION TO BUILDING STEEL. VERIFY BUILDING STEEL IS EFFECTIVELY GROUNDED PER NEC TO THE MAIN SERVICE GROUNDING ELECTRODE CONDUCTOR (GEC).
3. MAKE ALL GROUND CONNECTIONS FROM MGB TO ELECTRICAL EQUIPMENT WITH 2 HOLE, CRIMP TYPE, BURNDY COMPRESSION TERMINATIONS, SIZED AS REQUIRED.
4. USE 1 HOLE, CRIMP TYPE, BURNDY COMPRESSIONS TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND CONNECTIONS.
5. HIRE AN INDEPENDENT LAB TO PERFORM THE SPECIFIED OHMS TESTING. PROVIDE 4 SETS OF THE CERTIFIED DOCUMENTS TO THE OWNER FOR VERIFICATION PRIOR TO THE PROJECT COMPLETION.

RACEWAYS
1. ALL WIRING TO BE INSTALLED IN CONDUIT SYSTEMS IN ACCORDANCE WITH THE FOLLOWING:
   A. EXTERIOR FEEDERS AND CONTROL, WHERE UNDERGROUND, TO BE IN SCH 40 PVC.
   B. EXTERIOR, ABOVE GROUND POWER CONDUITS TO BE GALVANIZED RIGID STEEL (RGS).
   C. ALL TELECOMMUNICATION CONDUITS, INTERIOR/EXTERIOR, TO BE EMT.
   D. INSTALL PULL ROPES IN ALL NEW EMPTY CONDUITS INSTALLED ON THIS PROJECT.
   E. ALL TELECOM CONDUITS AND PULL BOXES INSTALLED ON THIS PROJECT TO BE LABELED "T-MOBILE". OWNER WILL PROVIDE LABELS FOR CONTRACTOR TO INSTALL.
   F. INTERIOR FEEDERS TO BE INSTALLED IN E.M.T. WITH STEEL COMPRESSION FITTINGS.
   G. MINIMUM SIZE CONDUIT TO BE ¾" TRADE SIZE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   H. FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT TO BE INSTALLED IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
   I. CONDUIT TO BE RUN CONCEALED IN CEILINGS, FINISHED AREAS OR DRYWALL PARTITIONS, UNLESS OTHERWISE NOTED.
   J. THE ROUTING OF CONDUITS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC. BEFORE INSTALLING ANY WORK, EXAMINE THE WORKING LAYOUTS AND SHOP DRAWINGS OF THE OTHER TRADES TO DETERMINE THE EXACT LOCATIONS AND CLEARANCES.
   K. ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO ATTACHING TO BUILDING STRUCTURE.

RACEWAYS CONT'D
   L. PENETRATIONS OF WALLS, FLOORS AND ROOFS, FOR THE PASSAGE OF ELECTRICAL RACEWAYS, TO BE PROPERLY SEALED AFTER INSTALLATION OF RACEWAYS SO AS TO MAINTAIN THE STRUCTURAL OR WATERPROOF INTEGRITY OF THE WALL, FLOOR OR ROOF SYSTEM TO BE PENETRATED. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED WALLS, CEILINGS OR SMOKE TIGHT CORRIDOR PARTITIONS TO MAINTAIN PROPER RATING OF WALL OR CEILING.
   M. PROVIDE ALL CONDUIT ENDS WITH INSULATED METALLIC GROUNDING BUSHINGS.
   N. CONDUIT TO BE SUPPORTED AT MAXIMUM DISTANCE OF 8'-0", OR AS REQUIRED BY NEC, IN HORIZONTAL AND VERTICAL DIRECTIONS.
   O. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR ALL JUNCTION BOXES AND/OR OUTLET BOXES NOT USED IN EXPOSED AREAS. PROVIDE ALL OTHER UNUSED BOXES WITH STANDARD STEEL COVER PLATES.
   P. WHERE APPLICABLE, PROVIDE ROOFTOP CONDUIT SUPPORT SYSTEM, CONFORMING TO ROOFTOP WARRANTY REQUIREMENTS, PER BUILDING.

WIRES AND CABLES
1. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND VENDOR FOR EXACT EQUIPMENT OVER-CURRENT PROTECTION VOLTAGE, WIRE SIZE AND PLUG CONFIGURATION, IF APPLICABLE, PRIOR TO BID.
2. ALL EQUIPMENT/DEVICES TO BE PROVIDED WITH INSULATED GROUND CONDUCTOR.
3. ALL WIRE AND CABLE TO BE 600VOLT, COPPER, WITH THWN/THHN INSULATION, EXCEPT AS NOTED.
4. WIRE FOR POWER AND LIGHTING WILL NOT BE LESS THAN NO. 12AWG. ALL WIRE NO. 8 AND LARGER TO BE STRANDED.
5. CONTROL WIRING IS NOT TO BE LESS THAN NO. 14AWG, FLEXIBLE IN SINGLE CONDUCTORS OR MULTI-CONDUCTOR CABLES. CONTROL WIRING WILL CONSIST OF MULTI-CONDUCTOR CABLES WHEREVER POSSIBLE. CABLES TO BE PROVIDED WITH AN OVERALL FLAME-RETARDANT, EXTRUDED JACKET AND RATED FOR PLENUM USE. ALL CONTROL WIRE TO BE 600VOLT RATED.
6. WIRE PREVIOUSLY PULLED INTO CONDUIT IS CONSIDERED USED AND IS NOT TO BE RE-PULLED.
7. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 20A, 120V CIRCUITS:

LENGTH (FT.)	HOME RUN WIRE SIZE
0 TO 50	NO. 12
51 TO 100	NO. 10
101 TO 150	NO. 8

8. VOLTAGE DROP IS NOT TO EXCEED 3%.
9. MAKE ALL CONNECTIONS WITH UL APPROVED, SOLDERLESS, PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOK OR AND APPROVED EQUAL.

WIRING DEVICES
1. ALL RECEPTACLES INSTALLED IN THIS PROJECT TO BE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION.

DISCONNECT SWITCHES AND FUSES
1. DISCONNECT SWITCHES TO BE VOLTAGE-RATED TO SUIT THE CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE SUPPLIED.
2. PROVIDE HEAVY-DUTY, METAL-ENCLOSED, EXTERNALLY-OPERATED DISCONNECT SWITCHES, FUSED OR UNFUSED, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED.
3. PROVIDE NEMA 1 DISCONNECT SWITCHES FOR INTERIOR INSTALLATION, NEMA 3R FOR EXTERIOR INSTALLATION.
4. DISCONNECT SWITCHES TO BE MANUFACTURED BY:
   A. GENERAL ELECTRIC COMPANY
   B. SQUARE-D
5. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE.

INSTALLATION
1. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON DRAWINGS.
2. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES. FUSES MUST MATCH IN TYPE AND RATING.
3. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL.
4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS FOLLOWS:
   A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF 60A, USED FOR INITIAL FUSING.
   B. TEN PERCENT SPARES FOR EACH TYPE AND SIZE, UP TO AND INCLUDING 60A, USED FOR INITIAL FUSING. IN NO CASE WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED.

GENERAL NOTES:

INTENT
1. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED, OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH
3. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
4. THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.
5. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.

CONFLICTS
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATIONS OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
3. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

CONTRACTS AND WARRANTIES
1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS.
2. SEE MASTER CONTRACTION SERVICES AGREEMENT FOR ADDITIONAL DETAILS.

STORAGE
1. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

CLEANUP
1. THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK AND AT THE COMPLETION OF THE WORK. THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY TO USE.
2. EXTERIOR
   A. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
   B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
   C. IF NECESSARY, TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.
3. INTERIOR
   A. VISUALLY INSPECT INTERIOR SURFACE AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER FROM WALLS, FLOOR, AND CEILING.
   B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
   C. REMOVE PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM FINISHED SURFACES.

CHANGE ORDER PROCEDURE:
1. REFER TO SECTION 17 OF SIGNED MCSA: SEE PROFESSIONAL SERVICE AGREEMENT FOR MCSA.

RELATED DOCUMENTS AND COORDINATION
1. GENERAL CARPENTRY, ELECTRICAL AND ANTENNA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

SHOP DRAWINGS
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE SPECIFICATIONS TO THE OWNER FOR APPROVAL.
2. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE OWNER.

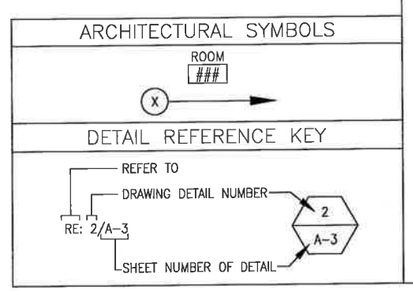
PRODUCTS AND SUBSTITUTIONS
1. SUBMIT 3 COPIES OF EACH REQUEST FOR SUBSTITUTION. IN EACH REQUEST, IDENTIFY THE PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS.
2. SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS, PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE OWNER, SUBMIT ACTUAL SAMPLES TO THE OWNER FOR APPROVAL IN LIEU OF CUT SHEETS.

QUALITY ASSURANCE
1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE, BUT NOT BE LIMITED TO THE APPLICABLE CODES SET FORTH BY THE LOCAL GOVERNING BODY. SEE "CODE COMPLIANCE" T-1.

ADMINISTRATION
1. BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
2. SUBMIT A BAR TYPE PROGRESS CHART, NOT MORE THAN 3 DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR EACH MAJOR CATEGORY OR UNIT OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE WORK.
3. PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE, BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, LAND OWNER REPRESENTATIVE, LOCAL TELEPHONE COMPANY, TOWER ERECTION FOREMAN (IF SUBCONTRACTED).
4. CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR A BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED.
5. DURING CONSTRUCTION, CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL WPCS SAFETY REQUIREMENTS IN THEIR AGREEMENT.
6. PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE OWNER.
7. COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO START OF CONSTRUCTION.
8. NOTIFY THE OWNER/PROJECT MANAGER IN WRITING NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

INSURANCE AND BONDS
1. CONTRACTOR, AT THEIR OWN EXPENSE, SHALL CARRY AND MAINTAIN, FOR THE DURATION OF THE PROJECT, ALL INSURANCE, AS REQUIRED AND LISTED, AND SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE OWNER. REFER TO THE MASTER AGREEMENT FOR REQUIRED INSURANCE LIMITS.
2. THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL POLICIES.
3. CONTRACTOR MUST PROVIDE PROOF OF INSURANCE.

ARCHITECTURAL SYMBOLS



ABBREVIATIONS

ADJ	ADJUSTABLE
AGL	ABOVE GROUND LINE
&	AND
APPROX	APPROXIMATE
@	AT
BTS	BASE TRANSMISSION STATION
CAB	CABINET
CLG	CEILING
CONC	CONCRETE
CONT	CONTINUOUS
DIA OR Ø	DIAMETER
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EGB	EQUIPMENT GROUND BAR
(E)	EXISTING
EXT	EXTERIOR
FF	FINISHED FLOOR
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GRND	GROUND
LG	LONG
MAX	MAXIMUM
MECH	MECHANICAL
MW	MICROWAVE DISH
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	MINIMUM
MTL	METAL
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
(P)	PROPOSED
PCS	PERSONAL COMMUNICATION SYSTEM
PPC	POWER PROTECTION CABINET
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SS	STAINLESS STEEL
STL	STEEL
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TYP	TYPICAL
VIF	VERIFY IN FIELD
UON	UNLESS OTHERWISE NOTED
WWF	WELDED WIRE FABRIC
W/	WITH

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

INFINIGY
Design. Build. Deliver.
1033 WATERVLIET SHAKER ROAD
ALBANY, NY 12205
OFFICE: (518) 690-0790
FAX: (518) 690-0783

SUBMITTALS

DATE	DESCRIPTION	REVISION
3/28/14	REVIEW	A
4/11/14	FOR PERMIT	0

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

PROJECT NO:	317-1169
DRAWN BY:	JLM
CHECKED BY:	AJD

STATE OF CONNECTICUT
JOHN S. STEVENS
No. 24705
LICENSED
PROFESSIONAL ENGINEER
PROFESSIONAL SEAL

NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

SITE NAME
CT11491B
CT491/SSITE HARTFORD_MP1
305 W. SERVICE ROAD
HARTFORD, CT 06120

SHEET TITLE
GENERAL AND ELECTRICAL NOTES

SHEET NUMBER
N-1
SHEET 8 OF 8 SHEETS