VERTICAL DEVELOPMENT

20 Commercial St
Branford, CT 06405
Phone: (203) 208-0806
Fax: (203) 488-4820

April 8, 2015

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

Re: Notice of Exempt Modification Application
12 Dwight Street
North Haven, CT 06473

Dear Ms. Bachman,

On behalf of New Cingular Wireless PCS, LLC ("AT&T"), enclosed for filing are an original and two (2) copies of AT&T's Notice of Exempt Modification for Proposed Modifications to an Existing Telecommunications Facility located at the above-referenced site.

I also enclose herewith a check in the amount of $625.00 representing the fee for the Notice of Exempt Modification.

If you have any questions, please feel free to contact me.

Thank you,

By: David Weisman

Name: David Weisman
Vertical Development LLC
Phone- 401-743-9011
Fax- 401-633-6202
DWeisman@verticaldevelopmentllc.com

cc:

Town of North Haven North Haven Memorial Town Hall 18 Church Street North Haven, CT 06473 Attn.: Michael J. Freda, First Selectman	15 Dwight Street LLC c/o Neil F. Carrano 11 Sagamore Terrace South Westbrook, CT 06498

siting.council@ct.gov (electronic copy)

Notice of Exempt Modification
12 Dwight Street, a/k/a 15 Dwight Street
North Haven, CT 06782-2009

New Cingular Wireless PCS, LLC ("AT&T") submits this Notice of Exempt Modification to the Connecticut Siting Council ("Council") pursuant to Sections 16-50j-73 and 16-50j-72(b) of the Regulations of Connecticut State Agencies ("Regulations") in connection with AT&T's planned modification of antennas and associated equipment on an existing 154' monopole located at 12 Dwight Street, a/k/a 15 Dwight Street, in the Town of North Haven, Connecticut. More particularly, AT&T plans to upgrade this site by adding LTE technology to its facilities. The proposed modifications will not increase the tower height, cause a significant adverse change or alteration in the physical or environmental characteristics of the site, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six (6) decibels, add radio frequency sending or receiving capability which increases the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996, as amended, and the State Department of Energy and Environmental Protection, pursuant to Section 22a-162 of the Connecticut General Statutes, or impair the structural integrity of the facility, as determined in a certification provided by a professional engineer licensed in Connecticut.

To better meet the growing voice and data demands of its wireless customers, AT&T is upgrading their network nationwide to include LTE technology, which will provide faster service and better overall performance. Pursuant to the LTE technology upgrade at this site, AT&T will add panel antennas, install RRHs, and install related equipment to its equipment area within the fenced tower compound.

The property and monopole located at 15 Dwight Street, in the Town of North Haven, Connecticut (lat. 41° 25' 14.87", long. -72° 50' 55.69") is owned and operated by American Tower Asset Sub II, LLC, a Delaware limited liability company ("Landlord"). AT&T's existing facility is located within the Landlord's existing fenced compound. AT&T currently has nine (9) panel antennas (three (3) per sector) with a centerline of 150' installed on the tower. AT&T's base station equipment is located adjacent to the base of the tower within the fenced compound. A site plan depicting this is attached.

AT&T plans to remove all existing equipment and install a new Commscope MTC3607 platform mount. AT&T will relocate to the new platform the following existing antennas and equipment with a proposed centerline of 153' installed on the tower: three (3) existing Powerwave 7777.00 panel antennas (one (1) per sector), three (3) TMAs, three (3) Ericsson RRUS-11 (one (1) per sector) which will be connected and located behind the Powerwave 7777.00 panel antennas, and one (1) DC-6 Surge Suppressor.

AT&T plans to add to the new platform six (6) CCI OPA-65R-LCUU-H6 panel antennas, three (3) RRUS-12 (1 per sector), three (3) Ericsson A2 modules (1) per sector (attached behind each respective RRU-12), three (3) RRUS-32 (1 per sector), and three (3) RRUS-E2 (1 per sector) and will add two (2) new Raycap DC-6 Surge Suppressors. The height of the tower will not be increased and all antennas, surge suppressors, and RRHs will be installed at the 153' centerline.

Within the existing equipment shelter AT&T also plans to install a new power plant and a new Ericsson RBS 6601 and DC-DC Converter in an existing LTE Rack. Finally, AT&T will be adding two (2) fiber trunks and four (4) DC trunks from the ground equipment to the AT&T Rad Center outside the monopole following (2) existing DC Trunks and (1) existing Fiber Trunk. The compound's boundaries will not need to be extended. The proposed modifications will not cause a significant adverse change or alteration in the physical or environmental characteristics of the site, since it is already a telecommunications installation and the modifications will be compatible with

this. Other than brief, construction-related noise, these modifications will not increase noise levels at the tower site boundary by six (6) decibels.

The proposed modifications will not add radio frequency sending or receiving capability which increases the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996, as amended, and the State Department of Energy and Environmental Protection, pursuant to Section 22a-162 of the Connecticut General Statutes. A radio frequency emissions analysis prepared by EBI Consulting concludes that the proposed final configuration (including other carriers on the tower) will emit 53.15% of the allowable FCC established general public limits sampled at the ground level (see page 1 and the 6th page of Radio Frequency Emissions Analysis Report Evaluation of Human Exposure Potential to Non-Ionizing Emissions (the "MPE" Assessment) dated November 7, 2014). Emissions values for additional carriers were based upon values listed in Connecticut Siting Council active database (see the 2nd and 6 page of the MPE Assessment dated November 7, 2014). The information used in the report was analyzed as a percentage of current Maximum Permissible Exposure (%MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1 (see the 2nd page of the MPE Assessment).

The proposed modifications will not impair the structural integrity of the facility. American Tower Corporation performed a structural analysis of the tower to verify that it can support the proposed loading. The structure and foundation were initially found to fail to meet the specified ANSI/TIA/222-G requirements and deemed inadequate to support the proposed loading, and was rated at 118% (see page 1 of the Structural Analysis Report dated November 10, 2014.) American Tower LLC thereafter designed modification drawings ("Modification Drawings") dated January 23, 2015, so that the monopole and foundation can comply with the specified ANSI-TIA-222-G requirements and adequately structurally support the proposed loading. The Modification Drawings specifically state that the modifications presented on

these drawings are based on the Structural Analysis Report dated November 10, 2014 and that satisfactory completion of the work indicated on the Modification Drawings will result in the structure meeting the requirements of the specifications under which the structural was completed (see page 9 of the construction drawings (page 1 of the Modification Drawings)).

In conclusion, AT&T's proposed modifications do not constitute a modification subject to the Council's review because AT&T will not change the height of the tower, will not extend the boundaries of the compound, will not cause a significant adverse change or alteration in the physical or environmental characteristics of the site, will not increase the noise levels at the site, will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards, and will not impair the structural integrity of the facility. Therefore, AT&T respectfully requests that the Council acknowledge that this Notice of Exempt Modification meets the Council's exemption criteria.

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

AT&T Existing Facility

Site ID: CT2012

North Haven - Dwight Street
12 Dwight Street
North Haven, CT 06473

November 7, 2014

EBI Project Number: 62145778

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general public allowable limit:	53.15 %

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

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November 7, 2014

AT&T Mobility – New England
Attn: Cameron Syme, RF Manager
550 Cochituate Road
Suite 550 – 13&14
Framingham, MA 06040

Emissions Analysis for Site: **CT2012 – North Haven - Dwight Street**

EBI Consulting was directed to analyze the proposed AT&T facility located at **12 Dwight Street, North Haven, CT**, for the purpose of determining whether the emissions from the Proposed AT&T 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 $\mu W/cm^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

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

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

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

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

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed AT&T Wireless antenna facility located at **12 Dwight Street, North Haven, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

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

1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

2) 2 GSM channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

3) 2 UMTS channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

4) 2 UMTS channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

5) 2 LTE channels (WCS Band – 2300 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

6) 2 LTE channels (PCS Band – 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

7) 4 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 60 Watts

8) 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.

9) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

10) The antennas used in this modeling are the **Powerwave 7770** for 1900 MHz (PCS) and 2100 MHz (AWS) channels and the **CCI OPA-65R-LCUU-H6** for 700 MHz channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The **Powerwave 7770** has a maximum gain of **13.3 dBd** at its main lobe. The **CCI OPA-65R-LCUU-H6** has a maximum gain of **13.9 dBd** at its main lobe. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

11) The antenna mounting height centerline of the proposed antennas is **153 feet** above ground level (AGL).

12) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

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

AT&T Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	**1**	Antenna #:	**1**	Antenna #:	**1**
Make / Model:	Powerwave 7770	Make / Model:	Powerwave 7770	Make / Model:	Powerwave 7770
Gain:	13.3 dBd	Gain:	13.3 dBd	Gain:	13.3 dBd
Height (AGL):	153 feet	Height (AGL):	153 feet	Height (AGL):	153 feet
Frequency Bands	1900 MHz(PCS) / 850 MHz	Frequency Bands	1900 MHz(PCS) / 850 MHz	Frequency Bands	1900 MHz(PCS) / 850 MHz
Channel Count	8	Channel Count	8	# PCS Channels:	8
Total TX Power:	240	Total TX Power:	240	# AWS Channels:	240
ERP (W):	3,172.53	ERP (W):	3,172.53	ERP (W):	3,172.53
Antenna A1 MPE%	1.82	Antenna B1 MPE%	1.82	Antenna C1 MPE%	1.82
Antenna #:	**2**	Antenna #:	**2**	Antenna #:	**2**
Make / Model:	CCI OPA-65R-LCUU-H6	Make / Model:	CCI OPA-65R-LCUU-H6	Make / Model:	CCI OPA-65R-LCUU-H6
Gain:	13.3 dBd	Gain:	13.3 dBd	Gain:	13.3 dBd
Height (AGL):	153 feet	Height (AGL):	153 feet	Height (AGL):	153 feet
Frequency Bands	700 MHz(PCS) / 2300 MHz (WCS)/ 850 MHz	Frequency Bands	700 MHz(PCS) / 2300 MHz (WCS)/ 850 MHz	Frequency Bands	700 MHz(PCS) / 2300 MHz (WCS)/ 850 MHz
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power:	240	Total TX Power:	240	Total TX Power:	240
ERP (W):	3,522.41	ERP (W):	3,522.41	ERP (W):	3,522.41
Antenna A2 MPE%	2.5	Antenna B2 MPE%	2.5	Antenna C2 MPE%	2.5
Antenna #:	**3**	Antenna #:	**3**	Antenna #:	**3**
Make / Model:	CCI OPA-65R-LCUU-H6	Make / Model:	CCI OPA-65R-LCUU-H6	Make / Model:	CCI OPA-65R-LCUU-H6
Gain:	13.9 dBd	Gain:	13.9 dBd	Gain:	13.9 dBd
Height (AGL):	153 feet	Height (AGL):	153 feet	Height (AGL):	153 feet
Frequency Bands	700 Mhz / 1900 MHz (PCS)	Frequency Bands	700 Mhz / 1900 MHz (PCS)	Frequency Bands	700 Mhz / 1900 MHz (PCS)
Channel Count	2	Channel Count	2	Channel Count	2
Total TX Power:	120	Total TX Power:	120	Total TX Power:	120
ERP (W):	3,534.37	ERP (W):	3,534.37	ERP (W):	3,522.41
Antenna A3 MPE%	2.47	Antenna B3 MPE%	2.47	Antenna C3 MPE%	2.47

Site Composite MPE%	
Carrier	**MPE%**
AT&T	**16.55**
Clearwire	0.87 %
Verizon Wireless	35.73 %
Site Total MPE %:	**53.15 %**

AT&T Sector 1 Total:	5.52 %
AT&T Sector 2 Total:	5.52 %
AT&T Sector 3 Total:	5.52 %
Site Total:	53.15 %

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Summary

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

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

AT&T Sector	Power Density Value (%)
Sector 1:	5.52 %
Sector 2:	5.52 %
Sector 3 :	5.52 %
AT&T Total:	16.55 %
Site Total:	53.15 %
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **53.15%** 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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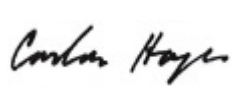
Structural Analysis Report

Structure	:	**150 ft Monopole**
ATC Site Name	:	**North Haven CT 1, CT**
ATC Site Number	:	**302482**
Engineering Number	:	**60261722**
Proposed Carrier	:	**AT&T Mobility**
Carrier Site Name	:	**North Haven - Dwight Street**
Carrier Site Number	:	**CT2012/FA#10034972**
Site Location	:	**15 Dewight Street** **North Haven, CT 06473-1198** **41.420806,-72.848800**
County	:	**New Haven**
Date	:	**November 10, 2014**
Max Usage	:	**118%**
Result	:	**Fail**

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



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 150 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	ITT Meyer, Type "B", Spec. AT-8935, dated April 13, 1984
Foundation Drawing	Southern New England Telephone Job # 3C032, dated September 18, 1984
Geotechnical Report	S&ME Job # 1261-08-049O, dated April 24, 2008
Modifications	Spectrasite Communications File # CT-0018-M1, Rev. 4, dated October 15, 2002 ATC Project # 41732832, dated June 30, 2008 ATC Project # 43874133, dated September 1, 2009

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:	110 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
Structure Class:	II
Exposure Category:	B
Topographic Category:	1

Conclusion

Based on the analysis results, the structure does not meet the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report after the modifications listed below are completed:

- Reinforce pole shaft from 110'-116'
- Reinforce flange at 110'

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					
150.0	153.0	6	Powerwave LGP21901	Low Profile Platform	(6) 1 1/4" Coax (2) 0.78" 8 AWG 6	AT&T Mobility
		6	Kathrein 782 10250			
		6	Powerwave LGP21401			
		1	Raycap DC6-48-60-18-8F			
		1	Raycap DC6-48-60-18-8F ("Squid")			
		6	Ericsson RRUS 11 (Band 7)			
		3	Ericsson RRUS 12			
		3	Ericsson RRUS E2 B29			
		3	Ericsson RRUS-32			
		3	Allgon 7770.00			
146.0	146.0	3	DragonWave Horizon Compact	Collar	(6) 1/2" Coax (6) 5/16" Coax (1) 3" Conduit	Clearwire
		3	12" x 12" Junction Box			
		1	DragonWave A-ANT-23G-1-C			
		3	NextNet BTS-2500			
		3	Argus LLPX310R			
		1	DragonWave A-ANT-11G-2-C			
		1	DragonWave A-ANT-11G-2.5-C			
108.0	108.0	6	RFS FD9R6004/1C-3L	Low Profile Platform	(12) 1 5/8" Coax	Verizon
		6	RFS FD9R6004/2C-3L			
		3	Commscope HBX-6516DS-VTM			
		3	Commscope HBX-6517DS-VTM			
		3	Antel BXA-70063/6CF_			
		3	Andrew LNX-6514DS-VTM			

Equipment to be Removed

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
150.0	153.0	6	LGP LGP21903	-	(6) 1 1/4" Coax* (1) 0.39" Cable	AT&T Mobility
		3	Powerwave 7770.00			
		3	KMW AM-X-CD-16-65-00T-RET			

*Remove (6) coax on outside of pole so that only (1) remains

Proposed Equipment

Elevation[1] (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
150.0	153.0	1	Raycap DC6-48-60-18-8F ("Squid")	Low Profile Platform	(4) 1.24" 4 AWG 6 (2) 0.51" Hybrid	AT&T Mobility
		3	Ericsson RRUS A2 B2			
		6	CCI OPA-65R-LCUU-H6			

[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 coax outside pole shaft shielded behind existing coax. Stacking is not allowed.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	101%	Pass
Shaft	115%	Fail
Base Plate	65%	Pass
Flanges	118%	Fail
Reinforcement	102%	Pass

Foundations

Reaction Component	Analysis Reactions
Moment (Kips-Ft)	3,124.2
Axial (Kips)	57.6
Shear (Kips)	32.4

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
150.0	2.767	2.310

***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:

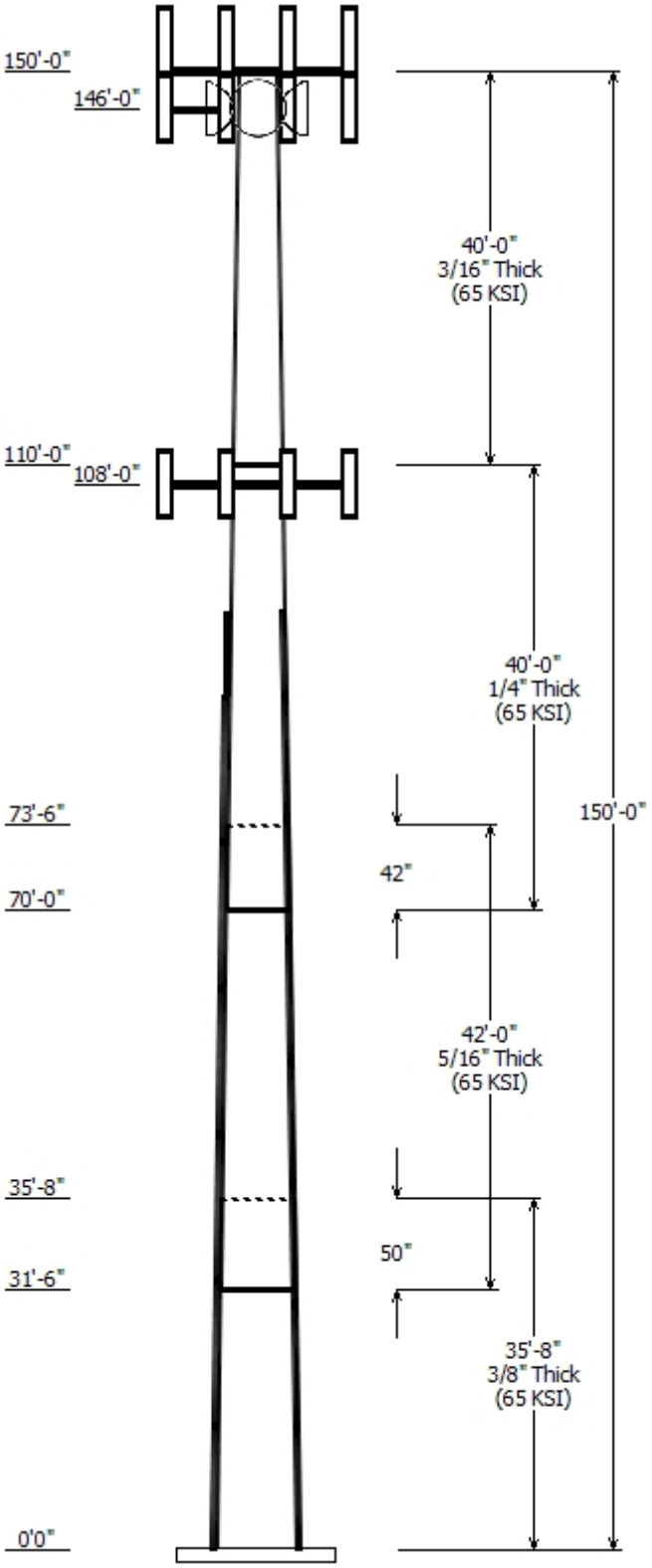
-- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.

-- 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 :	302482
Code:	ANSI/TIA-222 Rev G
Description :	150' ITT Meyer Type B Monopole
Client :	Verizon Wireless
Struct Class :	II
Location :	North Haven CT 1, CT
Shape :	12 Sides
Exposure :	B
Height :	150.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.15666(in/ft)

Sections Properties

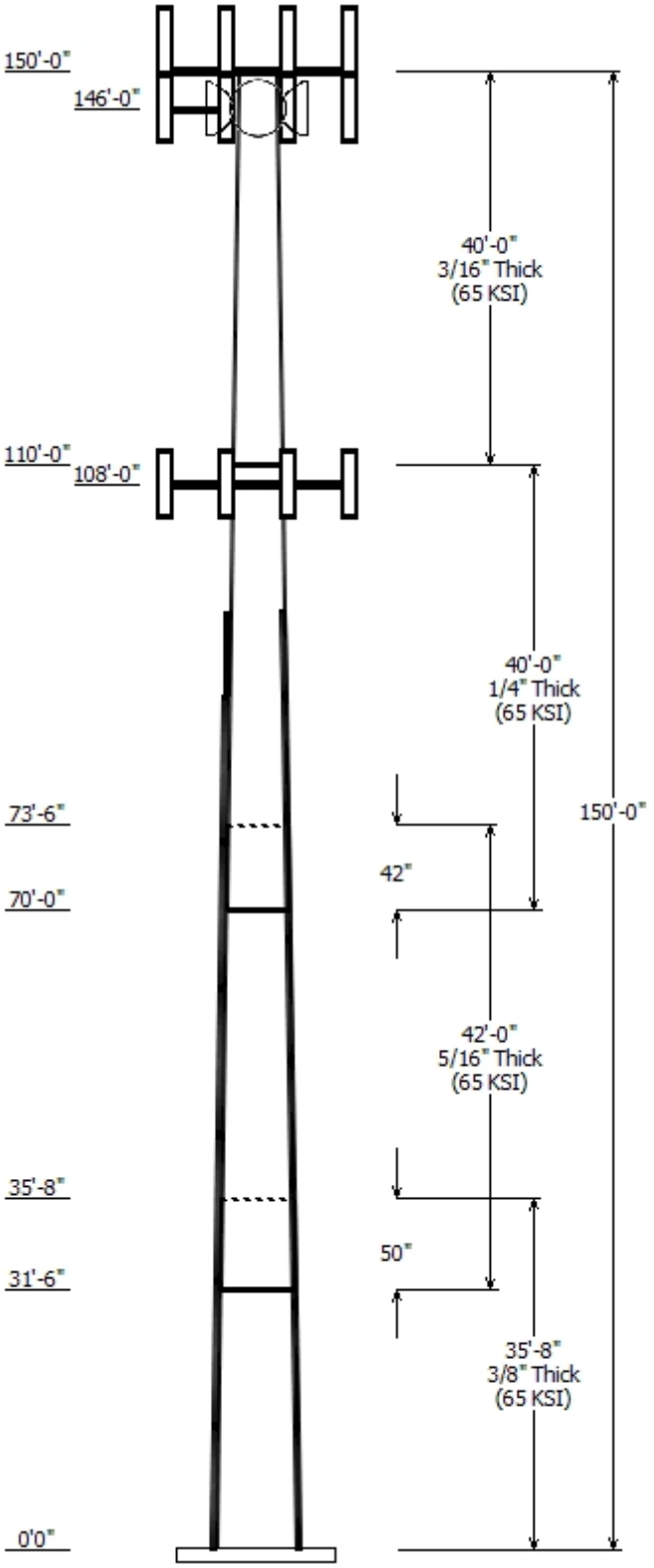
Shaft Section	Length (ft)	Diameter (in) Accross Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	35.667	31.78	37.37	0.375		0.000	0.156666	65
2	42.000	26.48	33.06	0.313	Slip Joint	50.000	0.156666	65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	0.156666	65
4	40.000	15.00	21.26	0.188	Butt Joint	0.000	0.156666	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	153.000	6	CCI OPA-65R-LCUU-H6
150.000	153.000	3	Ericsson RRUS-32
150.000	153.000	3	Ericsson RRUS E2 B29
150.000	153.000	3	Ericsson RRUS 12
150.000	153.000	6	Ericsson RRUS 11 (Band 7)
150.000	153.000	3	Ericsson RRUS A2 B2
150.000	153.000	2	Raycap DC6-48-60-18-8F
150.000	153.000	6	Kathrein 782 10250
150.000	151.500	1	Tophat
150.000	153.000	1	Raycap DC6-48-60-18-8F
150.000	153.000	6	Powerwave LGP21901
150.000	153.000	6	Powerwave LGP21401
150.000	153.000	3	Allgon 7770.00
150.000	150.000	1	Round Low Profile Platform
146.000	146.000	1	DragonWave A-ANT-11G-2-C
146.000	146.000	1	DragonWave A-ANT-11G-2.5-C
146.000	146.000	1	DragonWave A-ANT-23G-1-C
146.000	146.000	3	DragonWave Horizon Compact
146.000	146.000	1	Collar
146.000	146.000	3	Argus LLPX310R
146.000	146.000	3	NextNet BTS-2500
146.000	146.000	3	12" x 12" Junction Box
108.000	108.000	3	Andrew LNX-6514DS-VTM
108.000	108.000	3	Antel BXA-70063/6CF_
108.000	108.000	3	Commscope HBX-6517DS-VTM
108.000	108.000	3	Commscope HBX-6516DS-VTM
108.000	108.000	6	RFS FD9R6004/2C-3L
108.000	108.000	6	RFS FD9R6004/1C-3L
108.000	108.000	1	Round Low Profile Platform

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
5.000	108.0	1 5/8" Coax	No
5.000	146.0	1/2" Coax	Yes
5.000	146.0	3" Conduit	Yes
5.000	146.0	5/16" Coax	Yes
5.000	150.0	0.51" Hybrid	Yes
5.000	150.0	0.78" 8 AWG 6	Yes
5.000	150.0	1 1/4" Coax	Yes
5.000	150.0	1 1/4" Coax	No



5.000	150.0	1.24" 4 AWG 6	Yes
0.000	101.0	# 20 Dywidag	Yes

Load Cases

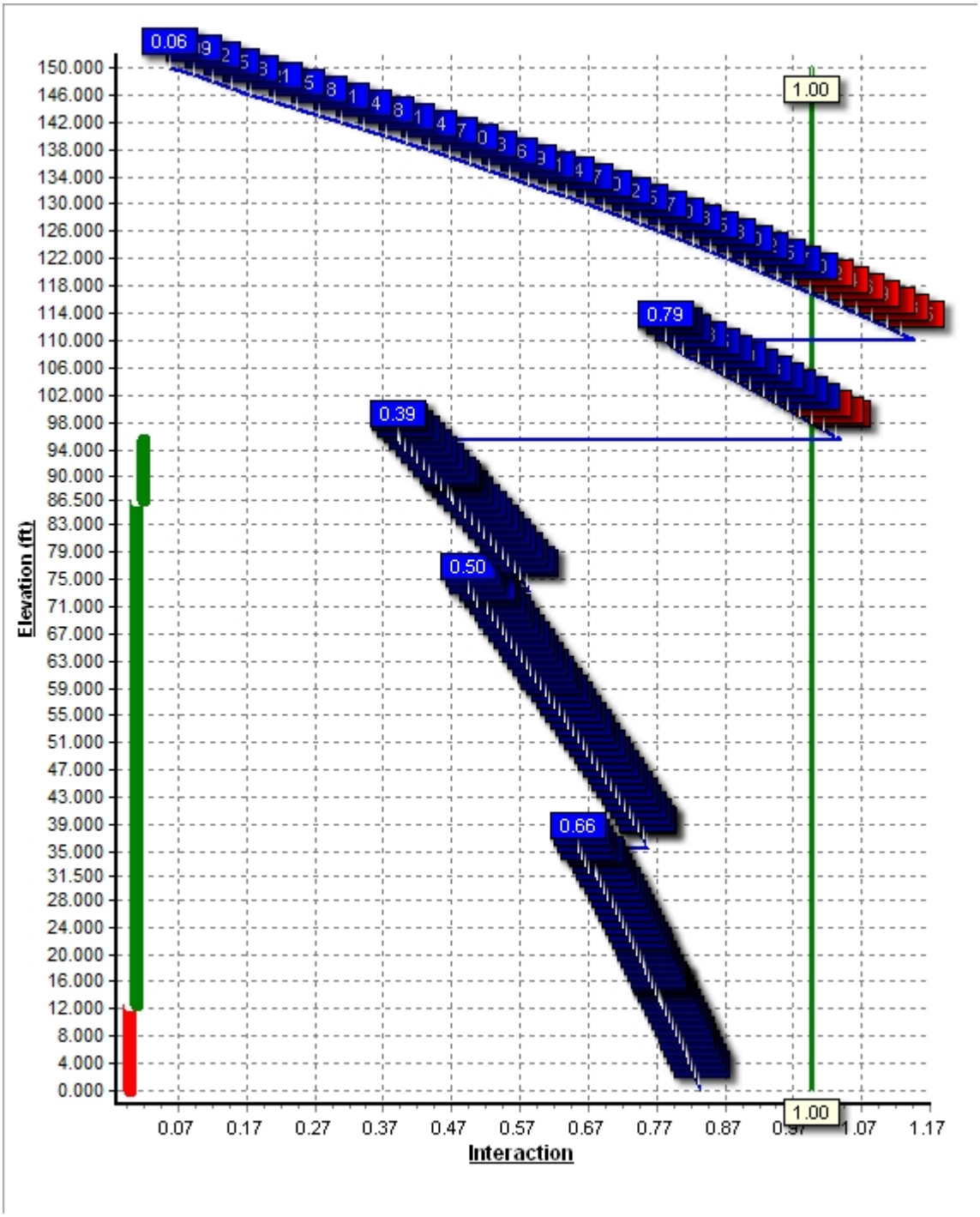
1.2D + 1.6W	110.00 mph with No Ice
0.9D + 1.6W	110.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

Reactions

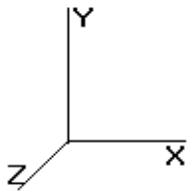
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3124.21	32.44	33.41
0.9D + 1.6W	3019.00	31.70	26.65
1.2D + 1.0Di + 1.0Wi	611.84	5.87	57.61
1.0D + 1.0W	579.04	6.13	28.92

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	146.00	31.270	2.293
1.0D + 1.0W	146.00	31.270	2.293
1.0D + 1.0W	146.00	31.270	2.293


0.06
1.00
0.79
0.39
0.50
0.66
1.00
150.000
146.000
142.000
138.000
134.000
130.000
126.000
122.000
118.000
114.000
110.000
106.000
102.000
98.000
94.000
90.000
86.500
83.000
79.000
75.000
71.000
67.000
63.000
59.000
55.000
51.000
47.000
43.000
39.000
35.000
31.500
28.000
24.000
20.000
16.000
12.000
8.000
4.000
0.000
Elevation (ft)
0.07
0.17
0.27
0.37
0.47
0.57
0.67
0.77
0.87
1.07
1.17
Interaction

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:15 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 1**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Shaft Section Properties

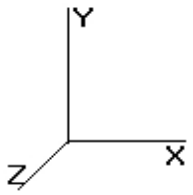
Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (sqin)	Bottom Ix (in^4)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (ft)	Top Area (sqin)	Top Ix (in^4)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-12	35.667	0.3750	65		0.00	5,013	37.37	0.00	44.68	7806.9	24.56	99.67	31.78	35.67	37.93	4777.1	20.57	84.77	0.156666
2-12	42.000	0.3125	65	Slip	50.00	4,237	33.06	31.50	32.96	4512.6	26.21	105.81	26.48	73.50	26.34	2302.6	20.57	84.75	0.156666
3-12	40.000	0.2500	65	Slip	42.00	2,646	27.53	70.00	21.96	2086.8	27.37	110.13	21.26	110.00	16.92	953.8	20.65	85.07	0.156666
4-12	40.000	0.1875	65	Butt	0.00	1,475	21.26	110.00	12.73	721.8	28.25	113.42	15.00	150.00	8.94	250.5	19.29	80.00	0.156666
				Shaft Weight		13,371													

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	Allgon 7770.00	3	35.00	5.510	0.65	170.09	6.560	0.65	0.000	3.000
150.00	CCI OPA-65R-LCUU-H6	6	73.00	9.660	0.66	304.76	11.026	0.66	0.000	3.000
150.00	Ericsson RRUS 11 (Band 7)	6	50.70	2.790	0.50	137.12	3.470	0.50	0.000	3.000
150.00	Ericsson RRUS 12	3	50.00	3.150	0.50	145.39	3.864	0.50	0.000	3.000
150.00	Ericsson RRUS A2 B2	3	22.00	2.060	0.50	77.38	2.663	0.50	0.000	3.000
150.00	Ericsson RRUS E2 B29	3	60.00	3.150	0.50	143.85	4.313	0.50	0.000	3.000
150.00	Ericsson RRUS-32	3	77.00	3.310	0.50	174.45	4.595	0.50	0.000	3.000
150.00	Kathrein 782 10250	6	6.40	0.520	0.50	25.64	0.778	0.50	0.000	3.000
150.00	Powerwave LGP21401	6	14.10	1.100	0.50	47.75	1.564	0.50	0.000	3.000
150.00	Powerwave LGP21901	6	5.50	0.230	0.50	19.05	0.472	0.50	0.000	3.000
150.00	Raycap DC6-48-60-18-8F	1	20.00	1.110	1.00	100.58	2.524	1.00	0.000	3.000
150.00	Raycap DC6-48-60-18-8F	2	31.80	1.280	1.00	100.58	2.524	1.00	0.000	3.000
150.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,149.22	40.938	1.00	0.000	0.000
150.00	Tophat	1	200.00	3.500	1.00	549.04	7.165	1.00	0.000	1.500
146.00	12" x 12" Junction Box	3	10.00	1.200	0.50	61.84	1.665	0.50	0.000	0.000
146.00	Argus LLPX310R	3	28.60	4.290	0.63	136.08	5.187	0.63	0.000	0.000
146.00	Collar	1	40.00	8.500	1.00	73.42	15.601	1.00	0.000	0.000
146.00	DragonWave A-ANT-11G-2-C	1	27.00	4.690	0.90	124.39	5.963	0.90	0.000	0.000
146.00	DragonWave A-ANT-11G-2.5-	1	47.60	8.670	1.00	175.02	10.396	1.00	0.000	0.000
146.00	DragonWave A-ANT-23G-1-C	1	15.00	1.610	0.90	50.31	2.367	0.90	0.000	0.000
146.00	DragonWave Horizon	3	10.60	0.430	0.33	40.69	0.658	0.33	0.000	0.000
146.00	NextNet BTS-2500	3	35.00	1.820	0.50	91.92	2.361	0.50	0.000	0.000
108.00	Andrew LNX-6514DS-VTM	3	38.80	8.170	0.69	209.40	10.902	0.69	0.000	0.000
108.00	Antel BXA-70063/6CF_	3	17.00	7.570	0.65	177.67	8.775	0.65	0.000	0.000
108.00	Commscope HBX-6516DS-	3	10.40	3.320	0.68	91.70	4.198	0.68	0.000	0.000
108.00	Commscope HBX-6517DS-	3	13.70	5.240	0.69	106.30	7.601	0.69	0.000	0.000
108.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.50	15.59	0.571	0.50	0.000	0.000
108.00	RFS FD9R6004/2C-3L	6	2.60	0.370	0.50	15.10	0.572	0.50	0.000	0.000
108.00	Round Low Profile Platform	1	1500.00	21.700	1.00	2,128.24	40.317	1.00	0.000	0.000
	Totals	91	5569.90			13,821.73			Number of Loadings :	29

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
5.00	150.00	(2) 0.51" Hybrid	0.00	Y
5.00	150.00	(2) 0.78" 8 AWG 6	0.00	Y
5.00	150.00	(1) 1 1/4" Coax	1.55	Y
5.00	150.00	(5) 1 1/4" Coax	0.00	N

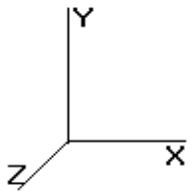


5.00	150.00	(4) 1.24" 4 AWG 6	0.00	Y
5.00	146.00	(6) 1/2" Coax	0.00	Y
5.00	146.00	(1) 3" Conduit	2.38	Y
5.00	146.00	(6) 5/16" Coax	0.00	Y
5.00	108.00	(12) 1 5/8" Coax	0.00	N
0.00	101.00	(4) # 20 Dywidag	7.50	Y

Additional Steel

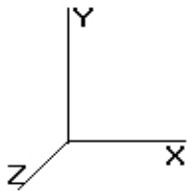
Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	— Intermediate Connections — Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	12.50	4	SOL #20 All Thread	80	1.81	5/8" Hollo Bolt	37.0	0.00	5/8" A36 U-Bolt	No
12.50	86.50	4	SOL #20 All Thread	80	1.81	5/8" Hollo Bolt	30.0	3.31	5/8" A36 U-Bolt	Yes
86.50	95.33	4	SOL #20 All Thread	80	1.81	5/8" Hollo Bolt	30.0	3.31	5/8" A36 U-Bolt	Yes

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:15 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 3**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



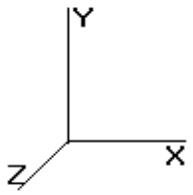
Segment Properties (Max Len : 1 ft)

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)	Additional Reinforcing Area (in^2)	Additional Reinforcing Ix (in^4)	Additional Reinforcing Weight (lb)
0.00		0.3750	37.375	44.678	7,806.9	24.56	99.67	77.9	403.5	0.0	19.64	4,652	0.0
1.00		0.3750	37.218	44.488	7,708.1	24.45	99.25	78.0	400.1	151.7	19.64	4,618	66.8
2.00		0.3750	37.062	44.299	7,610.2	24.34	98.83	78.2	396.7	151.1	19.64	4,585	66.8
3.00		0.3750	36.905	44.110	7,513.2	24.23	98.41	78.3	393.3	150.4	19.64	4,552	66.8
4.00		0.3750	36.748	43.921	7,416.9	24.11	98.00	78.4	389.9	149.8	19.64	4,519	66.8
5.00		0.3750	36.592	43.732	7,321.5	24.00	97.58	78.5	386.5	149.1	19.64	4,486	66.8
6.00		0.3750	36.435	43.542	7,226.9	23.89	97.16	78.7	383.2	148.5	19.64	4,453	66.8
7.00		0.3750	36.278	43.353	7,133.1	23.78	96.74	78.8	379.8	147.8	19.64	4,420	66.8
8.00		0.3750	36.122	43.164	7,040.1	23.67	96.32	78.9	376.5	147.2	19.64	4,388	66.8
9.00		0.3750	35.965	42.975	6,948.0	23.55	95.91	79.0	373.2	146.6	19.64	4,355	66.8
10.00		0.3750	35.808	42.786	6,856.6	23.44	95.49	79.1	369.9	145.9	19.64	4,323	66.8
11.00		0.3750	35.652	42.597	6,766.1	23.33	95.07	79.3	366.6	145.3	19.64	4,291	66.8
12.00		0.3750	35.495	42.407	6,676.3	23.22	94.65	79.4	363.4	144.6	19.64	4,259	66.8
12.50	Reinf. Top Reinf	0.3750	35.417	42.313	6,631.7	23.16	94.44	79.5	361.7	72.1	19.64	4,243	33.4
13.00		0.3750	35.338	42.218	6,587.4	23.11	94.24	79.5	360.1	71.9	19.64	4,227	33.4
14.00		0.3750	35.182	42.029	6,499.2	22.99	93.82	79.6	356.9	143.3	19.64	4,195	66.8
15.00		0.3750	35.025	41.840	6,411.8	22.88	93.40	79.8	353.7	142.7	19.64	4,163	66.8
16.00		0.3750	34.868	41.651	6,325.3	22.77	92.98	79.9	350.4	142.0	19.64	4,132	66.8
17.00		0.3750	34.712	41.462	6,239.5	22.66	92.56	80.0	347.3	141.4	19.64	4,100	66.8
18.00		0.3750	34.555	41.272	6,154.5	22.55	92.15	80.1	344.1	140.8	19.64	4,069	66.8
19.00		0.3750	34.398	41.083	6,070.2	22.44	91.73	80.2	340.9	140.1	19.64	4,038	66.8
20.00		0.3750	34.242	40.894	5,986.7	22.32	91.31	80.4	337.8	139.5	19.64	4,007	66.8
21.00		0.3750	34.085	40.705	5,904.0	22.21	90.89	80.5	334.6	138.8	19.64	3,976	66.8
22.00		0.3750	33.928	40.516	5,822.1	22.10	90.48	80.6	331.5	138.2	19.64	3,945	66.8
23.00		0.3750	33.772	40.326	5,740.9	21.99	90.06	80.7	328.4	137.5	19.64	3,914	66.8
24.00		0.3750	33.615	40.137	5,660.5	21.88	89.64	80.9	325.3	136.9	19.64	3,883	66.8
25.00		0.3750	33.458	39.948	5,580.9	21.76	89.22	81.0	322.2	136.3	19.64	3,853	66.8
26.00		0.3750	33.302	39.759	5,502.0	21.65	88.80	81.1	319.2	135.6	19.64	3,822	66.8
27.00		0.3750	33.145	39.570	5,423.8	21.54	88.39	81.2	316.1	135.0	19.64	3,792	66.8
28.00		0.3750	32.988	39.381	5,346.4	21.43	87.97	81.3	313.1	134.3	19.64	3,762	66.8
29.00		0.3750	32.832	39.191	5,269.7	21.32	87.55	81.5	310.1	133.7	19.64	3,732	66.8
30.00		0.3750	32.675	39.002	5,193.8	21.20	87.13	81.6	307.1	133.0	19.64	3,702	66.8
31.00		0.3750	32.518	38.813	5,118.5	21.09	86.72	81.7	304.1	132.4	19.64	3,672	66.8
31.50	Bot - Section 2	0.3750	32.440	38.718	5,081.2	21.04	86.51	81.8	302.6	66.0	19.64	3,657	33.4
32.00		0.3750	32.362	38.624	5,044.1	20.98	86.30	81.8	301.1	121.7	19.64	3,762	33.4
33.00		0.3750	32.205	38.435	4,970.3	20.87	85.88	81.9	298.1	242.7	19.64	3,732	66.8
34.00		0.3750	32.048	38.246	4,897.3	20.76	85.46	81.9	295.2	241.5	19.64	3,702	66.8
35.00		0.3750	31.892	38.056	4,825.0	20.64	85.04	81.9	292.3	240.4	19.64	3,672	66.8
35.67	Top - Section 1	0.3125	32.412	32.300	4,248.1	25.65	103.72	76.7	253.2	159.7	19.64	3,652	44.6
36.00		0.3125	32.360	32.248	4,227.4	25.60	103.55	76.8	252.4	36.6	19.64	3,642	22.2
37.00		0.3125	32.203	32.090	4,165.7	25.47	103.05	76.9	249.9	109.5	19.64	3,613	66.8
38.00		0.3125	32.047	31.933	4,104.6	25.33	102.55	77.1	247.4	108.9	19.64	3,583	66.8
39.00		0.3125	31.890	31.775	4,044.1	25.20	102.05	77.2	245.0	108.4	19.64	3,554	66.8
40.00		0.3125	31.733	31.617	3,984.2	25.07	101.55	77.4	242.6	107.9	19.64	3,525	66.8
41.00		0.3125	31.577	31.460	3,924.9	24.93	101.05	77.5	240.1	107.3	19.64	3,496	66.8
42.00		0.3125	31.420	31.302	3,866.2	24.80	100.54	77.7	237.7	106.8	19.64	3,467	66.8
43.00		0.3125	31.263	31.144	3,808.1	24.66	100.04	77.8	235.3	106.2	19.64	3,438	66.8
44.00		0.3125	31.107	30.987	3,750.6	24.53	99.54	78.0	232.9	105.7	19.64	3,409	66.8
45.00		0.3125	30.950	30.829	3,693.6	24.39	99.04	78.1	230.6	105.2	19.64	3,381	66.8
46.00		0.3125	30.793	30.671	3,637.3	24.26	98.54	78.3	228.2	104.6	19.64	3,352	66.8
47.00		0.3125	30.637	30.514	3,581.5	24.13	98.04	78.4	225.8	104.1	19.64	3,324	66.8
48.00		0.3125	30.480	30.356	3,526.2	23.99	97.54	78.5	223.5	103.6	19.64	3,296	66.8
49.00		0.3125	30.323	30.198	3,471.6	23.86	97.03	78.7	221.2	103.0	19.64	3,268	66.8
50.00		0.3125	30.167	30.041	3,417.5	23.72	96.53	78.8	218.9	102.5	19.64	3,240	66.8
51.00		0.3125	30.010	29.883	3,364.0	23.59	96.03	79.0	216.6	102.0	19.64	3,212	66.8
52.00		0.3125	29.853	29.725	3,311.0	23.45	95.53	79.1	214.3	101.4	19.64	3,184	66.8
53.00		0.3125	29.697	29.568	3,258.6	23.32	95.03	79.3	212.0	100.9	19.64	3,157	66.8
54.00		0.3125	29.540	29.410	3,206.8	23.19	94.53	79.4	209.7	100.3	19.64	3,129	66.8



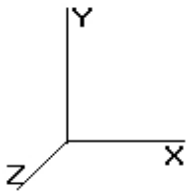
55.00		0.3125	29.383	29.253	3,155.5	23.05	94.03	79.6	207.5	99.8	19.64	3,102	66.8
56.00		0.3125	29.227	29.095	3,104.7	22.92	93.53	79.7	205.2	99.3	19.64	3,074	66.8
57.00		0.3125	29.070	28.937	3,054.5	22.78	93.02	79.9	203.0	98.7	19.64	3,047	66.8
58.00		0.3125	28.913	28.780	3,004.9	22.65	92.52	80.0	200.8	98.2	19.64	3,020	66.8
59.00		0.3125	28.757	28.622	2,955.8	22.51	92.02	80.2	198.6	97.7	19.64	2,993	66.8
60.00		0.3125	28.600	28.464	2,907.2	22.38	91.52	80.3	196.4	97.1	19.64	2,967	66.8
61.00		0.3125	28.443	28.307	2,859.2	22.24	91.02	80.5	194.2	96.6	19.64	2,940	66.8
62.00		0.3125	28.287	28.149	2,811.7	22.11	90.52	80.6	192.0	96.1	19.64	2,914	66.8
63.00		0.3125	28.130	27.991	2,764.7	21.98	90.02	80.7	189.9	95.5	19.64	2,887	66.8
64.00		0.3125	27.973	27.834	2,718.3	21.84	89.51	80.9	187.7	95.0	19.64	2,861	66.8
65.00		0.3125	27.817	27.676	2,672.3	21.71	89.01	81.0	185.6	94.4	19.64	2,835	66.8
66.00		0.3125	27.660	27.518	2,626.9	21.57	88.51	81.2	183.5	93.9	19.64	2,809	66.8
67.00		0.3125	27.503	27.361	2,582.0	21.44	88.01	81.3	181.4	93.4	19.64	2,783	66.8
68.00		0.3125	27.347	27.203	2,537.7	21.30	87.51	81.5	179.3	92.8	19.64	2,757	66.8
69.00		0.3125	27.190	27.046	2,493.8	21.17	87.01	81.6	177.2	92.3	19.64	2,731	66.8
70.00		0.3125	27.033	26.888	2,450.4	21.04	86.51	81.8	175.1	91.8	19.64	2,706	66.8
70.00	Bot - Section 3	0.3125	27.033	26.888	2,450.4	21.04	86.51	81.8	175.1	0.0	19.64	2,706	0.0
71.00		0.3125	26.877	26.730	2,407.6	20.90	86.01	81.9	173.1	165.7	19.64	2,762	66.8
72.00		0.3125	26.720	26.573	2,365.2	20.77	85.50	81.9	171.0	164.8	19.64	2,736	66.8
73.00		0.3125	26.563	26.415	2,323.4	20.63	85.00	81.9	169.0	163.8	19.64	2,711	66.8
73.50	Top - Section 2	0.2500	26.985	21.522	1,963.5	26.78	107.94	75.5	140.6	81.6	19.64	2,698	33.4
74.00		0.2500	26.907	21.459	1,946.3	26.69	107.63	75.6	139.7	36.5	19.64	2,685	33.4
75.00		0.2500	26.750	21.333	1,912.1	26.53	107.00	75.8	138.1	72.8	19.64	2,660	66.8
76.00		0.2500	26.593	21.206	1,878.4	26.36	106.37	76.0	136.5	72.4	19.64	2,634	66.8
77.00		0.2500	26.437	21.080	1,845.1	26.19	105.75	76.1	134.8	71.9	19.64	2,609	66.8
78.00		0.2500	26.280	20.954	1,812.2	26.02	105.12	76.3	133.2	71.5	19.64	2,584	66.8
79.00		0.2500	26.123	20.828	1,779.7	25.86	104.49	76.5	131.6	71.1	19.64	2,560	66.8
80.00		0.2500	25.967	20.702	1,747.5	25.69	103.87	76.7	130.0	70.7	19.64	2,535	66.8
81.00		0.2500	25.810	20.576	1,715.8	25.52	103.24	76.9	128.4	70.2	19.64	2,510	66.8
82.00		0.2500	25.653	20.450	1,684.4	25.35	102.61	77.1	126.8	69.8	19.64	2,486	66.8
83.00		0.2500	25.497	20.324	1,653.5	25.18	101.99	77.2	125.3	69.4	19.64	2,461	66.8
84.00		0.2500	25.340	20.197	1,622.9	25.02	101.36	77.4	123.7	68.9	19.64	2,437	66.8
85.00		0.2500	25.183	20.071	1,592.7	24.85	100.73	77.6	122.2	68.5	19.64	2,413	66.8
86.00		0.2500	25.027	19.945	1,562.8	24.68	100.11	77.8	120.6	68.1	19.64	2,389	66.8
86.50	Reinf. Top Reinf	0.2500	24.948	19.882	1,548.1	24.60	99.79	77.9	119.9	33.9	19.64	2,377	33.4
87.00		0.2500	24.870	19.819	1,533.4	24.51	99.48	78.0	119.1	33.8	19.64	2,365	33.4
88.00		0.2500	24.713	19.693	1,504.3	24.34	98.85	78.2	117.6	67.2	19.64	2,341	66.8
89.00		0.2500	24.557	19.567	1,475.6	24.18	98.23	78.3	116.1	66.8	19.64	2,318	66.8
90.00		0.2500	24.400	19.441	1,447.2	24.01	97.60	78.5	114.6	66.4	19.64	2,294	66.8
91.00		0.2500	24.243	19.315	1,419.2	23.84	96.97	78.7	113.1	65.9	19.64	2,271	66.8
92.00		0.2500	24.087	19.189	1,391.6	23.67	96.35	78.9	111.6	65.5	19.64	2,247	66.8
93.00		0.2500	23.930	19.062	1,364.4	23.50	95.72	79.1	110.1	65.1	19.64	2,224	66.8
94.00		0.2500	23.773	18.936	1,337.5	23.34	95.09	79.3	108.7	64.7	19.64	2,201	66.8
95.00		0.2500	23.617	18.810	1,310.9	23.17	94.47	79.4	107.2	64.2	19.64	2,178	66.8
95.33	Reinf. Top	0.2500	23.565	18.768	1,302.2	23.11	94.26	79.5	106.8	21.3	19.64	2,170	22.3
96.00		0.2500	23.460	18.684	1,284.7	23.00	93.84	79.6	105.8	42.5			
97.00		0.2500	23.303	18.558	1,258.9	22.83	93.21	79.8	104.4	63.4			
98.00		0.2500	23.147	18.432	1,233.4	22.66	92.59	80.0	102.9	62.9			
99.00		0.2500	22.990	18.306	1,208.2	22.50	91.96	80.2	101.5	62.5			
100.0		0.2500	22.833	18.180	1,183.4	22.33	91.33	80.4	100.1	62.1			
101.0		0.2500	22.677	18.054	1,159.0	22.16	90.71	80.5	98.7	61.6			
102.0		0.2500	22.520	17.927	1,134.9	21.99	90.08	80.7	97.4	61.2			
103.0		0.2500	22.363	17.801	1,111.1	21.83	89.45	80.9	96.0	60.8			
104.0		0.2500	22.207	17.675	1,087.6	21.66	88.83	81.1	94.6	60.4			
105.0		0.2500	22.050	17.549	1,064.5	21.49	88.20	81.3	93.3	59.9			
106.0		0.2500	21.893	17.423	1,041.7	21.32	87.57	81.5	91.9	59.5			
107.0		0.2500	21.737	17.297	1,019.3	21.15	86.95	81.6	90.6	59.1			
108.0		0.2500	21.580	17.171	997.1	20.99	86.32	81.8	89.3	58.6			
109.0		0.2500	21.423	17.045	975.3	20.82	85.69	81.9	88.0	58.2			
110.0		0.2500	21.267	16.918	953.8	20.65	85.07	81.9	86.6	57.8			
110.0	Top - Section 3	0.2500	21.267	16.918	953.8	20.65	85.07	81.9	86.6	0.0			
110.0	Bot - Section 4	0.1875	21.267	12.727	721.8	28.25	113.42	73.9	65.6				
111.0		0.1875	21.110	12.632	705.8	28.02	112.59	74.2	64.6	43.1			
112.0		0.1875	20.953	12.537	690.1	27.80	111.75	74.4	63.6	42.8			

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



113.0	**0.1875**	**20.797**	**12.443**	**674.6**	**27.58**	**110.92**	**74.6**	**62.7**	**42.5**	
114.0	**0.1875**	**20.640**	**12.348**	**659.3**	**27.35**	**110.08**	**74.9**	**61.7**	**42.2**	
115.0	**0.1875**	**20.483**	**12.254**	**644.3**	**27.13**	**109.24**	**75.1**	**60.8**	**41.9**	
116.0	**0.1875**	**20.327**	**12.159**	**629.5**	**26.90**	**108.41**	**75.4**	**59.8**	**41.5**	
117.0	**0.1875**	**20.170**	**12.064**	**614.9**	**26.68**	**107.57**	**75.6**	**58.9**	**41.2**	
118.0	**0.1875**	**20.013**	**11.970**	**600.5**	**26.46**	**106.74**	**75.9**	**58.0**	**40.9**	
119.0	**0.1875**	**19.857**	**11.875**	**586.4**	**26.23**	**105.90**	**76.1**	**57.1**	**40.6**	
120.0	**0.1875**	**19.700**	**11.781**	**572.5**	**26.01**	**105.07**	**76.3**	**56.1**	**40.2**	
121.0	**0.1875**	**19.543**	**11.686**	**558.8**	**25.79**	**104.23**	**76.6**	**55.2**	**39.9**	
122.0	**0.1875**	**19.387**	**11.592**	**545.4**	**25.56**	**103.40**	**76.8**	**54.3**	**39.6**	
123.0	**0.1875**	**19.230**	**11.497**	**532.1**	**25.34**	**102.56**	**77.1**	**53.5**	**39.3**	
124.0	**0.1875**	**19.073**	**11.402**	**519.1**	**25.11**	**101.72**	**77.3**	**52.6**	**39.0**	
125.0	**0.1875**	**18.917**	**11.308**	**506.3**	**24.89**	**100.89**	**77.6**	**51.7**	**38.6**	
126.0	**0.1875**	**18.760**	**11.213**	**493.7**	**24.67**	**100.05**	**77.8**	**50.8**	**38.3**	
127.0	**0.1875**	**18.603**	**11.119**	**481.3**	**24.44**	**99.22**	**78.1**	**50.0**	**38.0**	
128.0	**0.1875**	**18.447**	**11.024**	**469.1**	**24.22**	**98.38**	**78.3**	**49.1**	**37.7**	
129.0	**0.1875**	**18.290**	**10.929**	**457.2**	**23.99**	**97.55**	**78.5**	**48.3**	**37.4**	
130.0	**0.1875**	**18.133**	**10.835**	**445.4**	**23.77**	**96.71**	**78.8**	**47.4**	**37.0**	
131.0	**0.1875**	**17.977**	**10.740**	**433.8**	**23.55**	**95.88**	**79.0**	**46.6**	**36.7**	
132.0	**0.1875**	**17.820**	**10.646**	**422.5**	**23.32**	**95.04**	**79.3**	**45.8**	**36.4**	
133.0	**0.1875**	**17.663**	**10.551**	**411.3**	**23.10**	**94.20**	**79.5**	**45.0**	**36.1**	
134.0	**0.1875**	**17.507**	**10.456**	**400.3**	**22.87**	**93.37**	**79.8**	**44.2**	**35.7**	
135.0	**0.1875**	**17.350**	**10.362**	**389.6**	**22.65**	**92.53**	**80.0**	**43.4**	**35.4**	
136.0	**0.1875**	**17.193**	**10.267**	**379.0**	**22.43**	**91.70**	**80.3**	**42.6**	**35.1**	
137.0	**0.1875**	**17.037**	**10.173**	**368.6**	**22.20**	**90.86**	**80.5**	**41.8**	**34.8**	
138.0	**0.1875**	**16.880**	**10.078**	**358.4**	**21.98**	**90.03**	**80.7**	**41.0**	**34.5**	
139.0	**0.1875**	**16.723**	**9.984**	**348.4**	**21.76**	**89.19**	**81.0**	**40.3**	**34.1**	
140.0	**0.1875**	**16.567**	**9.889**	**338.6**	**21.53**	**88.36**	**81.2**	**39.5**	**33.8**	
141.0	**0.1875**	**16.410**	**9.794**	**329.0**	**21.31**	**87.52**	**81.5**	**38.7**	**33.5**	
142.0	**0.1875**	**16.253**	**9.700**	**319.6**	**21.08**	**86.68**	**81.7**	**38.0**	**33.2**	
143.0	**0.1875**	**16.097**	**9.605**	**310.3**	**20.86**	**85.85**	**81.9**	**37.2**	**32.8**	
144.0	**0.1875**	**15.940**	**9.511**	**301.2**	**20.64**	**85.01**	**81.9**	**36.5**	**32.5**	
145.0	**0.1875**	**15.783**	**9.416**	**292.3**	**20.41**	**84.18**	**81.9**	**35.8**	**32.2**	
146.0	**0.1875**	**15.627**	**9.321**	**283.6**	**20.19**	**83.34**	**81.9**	**35.1**	**31.9**	
147.0	**0.1875**	**15.470**	**9.227**	**275.1**	**19.96**	**82.51**	**81.9**	**34.3**	**31.6**	
148.0	**0.1875**	**15.313**	**9.132**	**266.7**	**19.74**	**81.67**	**81.9**	**33.6**	**31.2**	
149.0	**0.1875**	**15.157**	**9.038**	**258.5**	**19.52**	**80.84**	**81.9**	**32.9**	**30.9**	
150.0	**0.1875**	**15.000**	**8.943**	**250.5**	**19.29**	**80.00**	**81.9**	**32.3**	**30.6**	
									13,370.7	**6,368.2**

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:15 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 6
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

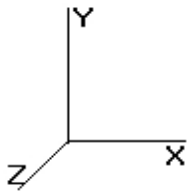
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

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	0.70	20.599	22.65	296.75		1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.70	20.599	22.65	295.51	*	1.283	0.000	1.00	3.218	4.13	149.6	0.0	248.8
2.00		1.00	0.70	20.599	22.65	294.26	*	1.285	0.000	1.00	3.204	4.12	149.3	0.0	248.1
3.00		1.00	0.70	20.599	22.65	293.02	*	1.288	0.000	1.00	3.191	4.11	148.9	0.0	247.3
4.00		1.00	0.70	20.599	22.65	291.77	*	1.290	0.000	1.00	3.177	4.10	148.6	0.0	246.5
5.00		1.00	0.70	20.599	22.65	290.53	*	1.293	0.000	1.00	3.164	4.09	148.3	0.0	245.8
6.00		1.00	0.70	20.599	22.65	289.29	*	1.200	0.000	1.00	3.150	3.78	137.0	0.0	245.0
7.00		1.00	0.70	20.599	22.65	288.04	*	1.200	0.000	1.00	3.137	3.76	136.5	0.0	244.2
8.00		1.00	0.70	20.599	22.65	286.80	*	1.200	0.000	1.00	3.123	3.75	135.9	0.0	243.4
9.00		1.00	0.70	20.599	22.65	285.56	*	1.200	0.000	1.00	3.110	3.73	135.3	0.0	242.7
10.00		1.00	0.70	20.599	22.65	284.31	*	1.200	0.000	1.00	3.096	3.72	134.7	0.0	241.9
11.00		1.00	0.70	20.599	22.65	283.07	*	1.200	0.000	1.00	3.083	3.70	134.1	0.0	241.1
12.00		1.00	0.70	20.599	22.65	281.82	*	1.200	0.000	1.00	3.069	3.68	133.5	0.0	240.3
12.50	Reinf. Top Reinf Bottom	1.00	0.70	20.599	22.65	281.20	*	1.200	0.000	0.50	1.529	1.84	66.5	0.0	119.9
13.00		1.00	0.70	20.599	22.65	280.58	*	1.200	0.000	0.50	1.526	1.83	66.4	0.0	119.7
14.00		1.00	0.70	20.599	22.65	279.34	*	1.200	0.000	1.00	3.042	3.65	132.3	0.0	238.8
15.00		1.00	0.70	20.599	22.65	278.09	*	1.200	0.000	1.00	3.028	3.63	131.8	0.0	238.0
16.00		1.00	0.70	20.599	22.65	276.85	*	1.200	0.000	1.00	3.015	3.62	131.2	0.0	237.3
17.00		1.00	0.70	20.599	22.65	275.60	*	1.200	0.000	1.00	3.001	3.60	130.6	0.0	236.5
18.00		1.00	0.70	20.599	22.65	274.36	*	1.200	0.000	1.00	2.988	3.59	130.0	0.0	235.7
19.00		1.00	0.70	20.599	22.65	273.12	*	1.200	0.000	1.00	2.974	3.57	129.4	0.0	234.9
20.00		1.00	0.70	20.599	22.65	271.87	*	1.200	0.000	1.00	2.961	3.55	128.8	0.0	234.2
21.00		1.00	0.70	20.599	22.65	270.63	*	1.200	0.000	1.00	2.947	3.54	128.2	0.0	233.4
22.00		1.00	0.70	20.599	22.65	269.38	*	1.200	0.000	1.00	2.934	3.52	127.6	0.0	232.6
23.00		1.00	0.70	20.599	22.65	268.14	*	1.200	0.000	1.00	2.920	3.50	127.1	0.0	231.9
24.00		1.00	0.70	20.599	22.65	266.90	*	1.200	0.000	1.00	2.907	3.49	126.5	0.0	231.1
25.00		1.00	0.70	20.599	22.65	265.65	*	1.200	0.000	1.00	2.893	3.47	125.9	0.0	230.3
26.00		1.00	0.70	20.599	22.65	264.41	*	1.200	0.000	1.00	2.880	3.46	125.3	0.0	229.5
27.00		1.00	0.70	20.599	22.65	263.16	*	1.200	0.000	1.00	2.866	3.44	124.7	0.0	228.8
28.00		1.00	0.70	20.599	22.65	261.92	*	1.200	0.000	1.00	2.853	3.42	124.1	0.0	228.0
29.00		1.00	0.70	20.599	22.65	260.68	*	1.200	0.000	1.00	2.839	3.41	123.5	0.0	227.2
30.00		1.00	0.70	20.616	22.67	259.54	*	1.200	0.000	1.00	2.826	3.39	123.0	0.0	226.4
31.00		1.00	0.70	20.810	22.89	259.51	*	1.200	0.000	1.00	2.812	3.37	123.6	0.0	225.7
31.50	Bot - Section 2	1.00	0.71	20.906	22.99	259.48	*	1.200	0.000	0.50	1.402	1.68	61.9	0.0	112.6
32.00		1.00	0.71	21.000	23.10	259.43	*	1.200	0.000	0.50	1.424	1.71	63.1	0.0	179.4
33.00		1.00	0.72	21.186	23.30	259.32	*	1.200	0.000	1.00	2.839	3.41	127.0	0.0	358.1
34.00		1.00	0.72	21.367	23.50	259.16	*	1.200	0.000	1.00	2.826	3.39	127.5	0.0	356.6
35.00		1.00	0.73	21.545	23.69	258.96	*	1.200	0.000	1.00	2.812	3.37	128.0	0.0	355.2
35.67	Top - Section 1	1.00	0.73	21.661	23.82	258.81	*	1.200	0.000	0.67	1.868	2.24	85.5	0.0	236.1
36.00		1.00	0.73	21.719	23.89	263.82	*	1.200	0.000	0.33	0.930	1.12	42.7	0.0	66.1
37.00		1.00	0.74	21.890	24.07	263.58	*	1.200	0.000	1.00	2.785	3.34	128.8	0.0	198.2
38.00		1.00	0.75	22.057	24.26	263.29	*	1.200	0.000	1.00	2.772	3.33	129.1	0.0	197.5
39.00		1.00	0.75	22.221	24.44	262.98	*	1.200	0.000	1.00	2.758	3.31	129.4	0.0	196.9
40.00		1.00	0.76	22.383	24.62	262.64	*	1.200	0.000	1.00	2.744	3.29	129.7	0.0	196.2
41.00		1.00	0.76	22.541	24.79	262.26	*	1.200	0.000	1.00	2.731	3.28	130.0	0.0	195.6
42.00		1.00	0.77	22.697	24.96	261.86	*	1.200	0.000	1.00	2.717	3.26	130.3	0.0	194.9
43.00		1.00	0.77	22.850	25.13	261.43	*	1.200	0.000	1.00	2.704	3.24	130.5	0.0	194.3
44.00		1.00	0.78	23.000	25.30	260.98	*	1.200	0.000	1.00	2.690	3.23	130.7	0.0	193.7
45.00		1.00	0.78	23.149	25.46	260.50	*	1.200	0.000	1.00	2.677	3.21	130.9	0.0	193.0
46.00		1.00	0.79	23.294	25.62	260.00	*	1.200	0.000	1.00	2.663	3.20	131.0	0.0	192.4
47.00		1.00	0.79	23.438	25.78	259.47	*	1.200	0.000	1.00	2.650	3.18	131.2	0.0	191.7

Pole :	302482	Code: ANSI/TIA-222 Rev G			11/12/2014 9:57:15 AM
Location :	North Haven CT 1, CT	Struct Class : II			Page: 7
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.37 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156666 (in/ft)				

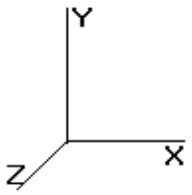


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

48.00		1.00	0.80	23.579	25.93	258.92	1.200	*	0.000	1.00	2.636	3.16	131.3	0.0	191.1
49.00		1.00	0.80	23.719	26.09	258.35	1.200	*	0.000	1.00	2.623	3.15	131.4	0.0	190.4
50.00		1.00	0.81	23.856	26.24	257.76	1.200	*	0.000	1.00	2.609	3.13	131.5	0.0	189.8
51.00		1.00	0.81	23.991	26.39	257.15	1.200	*	0.000	1.00	2.596	3.11	131.5	0.0	189.1
52.00		1.00	0.82	24.125	26.53	256.51	1.200	*	0.000	1.00	2.582	3.10	131.6	0.0	188.5
53.00		1.00	0.82	24.257	26.68	255.86	1.200	*	0.000	1.00	2.569	3.08	131.6	0.0	187.9
54.00		1.00	0.82	24.386	26.82	255.19	1.200	*	0.000	1.00	2.555	3.07	131.6	0.0	187.2
55.00		1.00	0.83	24.515	26.96	254.51	1.200	*	0.000	1.00	2.542	3.05	131.6	0.0	186.6
56.00		1.00	0.83	24.641	27.10	253.80	1.200	*	0.000	1.00	2.528	3.03	131.6	0.0	185.9
57.00		1.00	0.84	24.766	27.24	253.08	1.200	*	0.000	1.00	2.515	3.02	131.5	0.0	185.3
58.00		1.00	0.84	24.889	27.37	252.34	1.200	*	0.000	1.00	2.501	3.00	131.5	0.0	184.6
59.00		1.00	0.85	25.011	27.51	251.59	1.200	*	0.000	1.00	2.488	2.99	131.4	0.0	184.0
60.00		1.00	0.85	25.132	27.64	250.82	1.200	*	0.000	1.00	2.474	2.97	131.3	0.0	183.4
61.00		1.00	0.85	25.251	27.77	250.04	1.200	*	0.000	1.00	2.461	2.95	131.2	0.0	182.7
62.00		1.00	0.86	25.368	27.90	249.24	1.200	*	0.000	1.00	2.447	2.94	131.1	0.0	182.1
63.00		1.00	0.86	25.485	28.03	248.42	1.200	*	0.000	1.00	2.434	2.92	131.0	0.0	181.4
64.00		1.00	0.87	25.599	28.15	247.60	1.200	*	0.000	1.00	2.420	2.90	130.8	0.0	180.8
65.00		1.00	0.87	25.713	28.28	246.76	1.200	*	0.000	1.00	2.407	2.89	130.7	0.0	180.1
66.00		1.00	0.87	25.825	28.40	245.90	1.200	*	0.000	1.00	2.393	2.87	130.5	0.0	179.5
67.00		1.00	0.88	25.937	28.53	245.04	1.200	*	0.000	1.00	2.380	2.86	130.3	0.0	178.8
68.00		1.00	0.88	26.047	28.65	244.16	1.200	*	0.000	1.00	2.366	2.84	130.2	0.0	178.2
69.00		1.00	0.88	26.156	28.77	243.26	1.200	*	0.000	1.00	2.353	2.82	130.0	0.0	177.6
70.00		1.00	0.89	26.263	28.89	242.36	1.200	*	0.000	1.00	2.339	2.81	129.7	0.0	176.9
70.00	Bot - Section 3	1.00	0.89	26.263	28.89	242.36	1.200	*	0.000	0.00	0.001	0.00	0.0	0.0	0.1
71.00		1.00	0.89	26.370	29.00	241.44	1.200	*	0.000	1.00	2.368	2.84	131.9	0.0	265.6
72.00		1.00	0.90	26.476	29.12	240.52	1.200	*	0.000	1.00	2.355	2.83	131.7	0.0	264.5
73.00		1.00	0.90	26.580	29.23	239.58	1.200	*	0.000	1.00	2.342	2.81	131.5	0.0	263.4
73.50	Top - Section 2	1.00	0.90	26.632	29.29	239.10	1.200	*	0.000	0.50	1.167	1.40	65.6	0.0	131.3
74.00		1.00	0.90	26.684	29.35	243.15	1.200	*	0.000	0.50	1.162	1.39	65.5	0.0	77.2
75.00		1.00	0.91	26.786	29.46	242.19	1.200	*	0.000	1.00	2.315	2.78	130.9	0.0	154.2
76.00		1.00	0.91	26.888	29.57	241.23	1.200	*	0.000	1.00	2.301	2.76	130.7	0.0	153.6
77.00		1.00	0.91	26.988	29.68	240.26	1.200	*	0.000	1.00	2.288	2.75	130.4	0.0	153.1
78.00		1.00	0.92	27.088	29.79	239.28	1.200	*	0.000	1.00	2.274	2.73	130.1	0.0	152.6
79.00		1.00	0.92	27.187	29.90	238.28	1.200	*	0.000	1.00	2.261	2.71	129.8	0.0	152.1
80.00		1.00	0.92	27.285	30.01	237.28	1.200	*	0.000	1.00	2.247	2.70	129.5	0.0	151.6
81.00		1.00	0.93	27.382	30.12	236.27	1.200	*	0.000	1.00	2.233	2.68	129.2	0.0	151.1
82.00		1.00	0.93	27.478	30.22	235.25	1.200	*	0.000	1.00	2.220	2.66	128.8	0.0	150.6
83.00		1.00	0.93	27.573	30.33	234.21	1.200	*	0.000	1.00	2.206	2.65	128.5	0.0	150.0
84.00		1.00	0.94	27.668	30.43	233.17	1.200	*	0.000	1.00	2.193	2.63	128.1	0.0	149.5
85.00		1.00	0.94	27.761	30.53	232.12	1.200	*	0.000	1.00	2.179	2.62	127.8	0.0	149.0
86.00		1.00	0.94	27.854	30.64	231.07	1.200	*	0.000	1.00	2.166	2.60	127.4	0.0	148.5
86.50	Reinf. Top Reinf Bottom	1.00	0.94	27.901	30.69	230.53	1.200	*	0.000	0.50	1.078	1.29	63.5	0.0	74.1
87.00		1.00	0.95	27.946	30.74	230.00	1.200	*	0.000	0.50	1.074	1.29	63.4	0.0	73.9
88.00		1.00	0.95	28.038	30.84	228.92	1.200	*	0.000	1.00	2.139	2.57	126.7	0.0	147.5
89.00		1.00	0.95	28.129	30.94	227.84	1.200	*	0.000	1.00	2.125	2.55	126.3	0.0	147.0
90.00		1.00	0.95	28.219	31.04	226.75	1.200	*	0.000	1.00	2.112	2.53	125.9	0.0	146.4
91.00		1.00	0.96	28.308	31.13	225.65	1.200	*	0.000	1.00	2.098	2.52	125.4	0.0	145.9
92.00		1.00	0.96	28.396	31.23	224.54	1.200	*	0.000	1.00	2.085	2.50	125.0	0.0	145.4
93.00		1.00	0.96	28.484	31.33	223.42	1.200	*	0.000	1.00	2.071	2.49	124.6	0.0	144.9
94.00		1.00	0.97	28.571	31.42	222.30	1.200	*	0.000	1.00	2.058	2.47	124.2	0.0	144.4
95.00		1.00	0.97	28.658	31.52	221.17	1.200	*	0.000	1.00	2.044	2.45	123.7	0.0	143.9
95.33	Reinf. Top	1.00	0.97	28.686	31.55	220.79	1.200	*	0.000	0.33	0.678	0.81	41.1	0.0	47.8
96.00		1.00	0.97	28.744	31.61	220.03	1.200	*	0.000	0.67	1.353	1.62	82.1	0.0	51.0
97.00		1.00	0.98	28.829	31.71	218.89	1.200	*	0.000	1.00	2.017	2.42	122.8	0.0	76.0
98.00		1.00	0.98	28.913	31.80	217.73	1.200	*	0.000	1.00	2.004	2.40	122.4	0.0	75.5
99.00		1.00	0.98	28.997	31.89	216.57	1.200	*	0.000	1.00	1.990	2.39	121.9	0.0	75.0
100.0		1.00	0.98	29.081	31.98	215.41	1.200	*	0.000	1.00	1.977	2.37	121.4	0.0	74.5

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:16 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 8**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



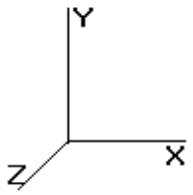
Load Case: **1.2D + 1.6W** **110.00 mph with No Ice** **36 Iterations**

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

101.0		1.00	0.99	29.164	32.08	214.23	1.200	*	0.000	1.00	1.963	2.36	120.9	0.0	74.0
102.0		1.00	0.99	29.246	32.17	213.05	1.204	*	0.000	1.00	1.950	2.35	120.8	0.0	73.5
103.0		1.00	0.99	29.328	32.26	211.87	1.207	*	0.000	1.00	1.936	2.34	120.7	0.0	72.9
104.0		1.00	0.99	29.409	32.34	210.67	1.211	*	0.000	1.00	1.923	2.33	120.5	0.0	72.4
105.0		1.00	1.00	29.489	32.43	209.47	1.215	*	0.000	1.00	1.909	2.32	120.4	0.0	71.9
106.0		1.00	1.00	29.569	32.52	208.26	1.218	*	0.000	1.00	1.896	2.31	120.2	0.0	71.4
107.0		1.00	1.00	29.649	32.61	207.05	1.222	*	0.000	1.00	1.882	2.30	120.0	0.0	70.9
108.0	Appertunance(s)	1.00	1.01	29.727	32.70	205.83	1.226	*	0.000	1.00	1.869	2.29	119.8	0.0	70.4
109.0		1.00	1.01	29.806	32.78	204.61	1.230	*	0.000	1.00	1.855	2.28	119.7	0.0	69.9
110.0		1.00	1.01	29.884	32.87	203.38	1.234	*	0.000	1.00	1.842	2.27	119.5	0.0	69.3
110.0	Top - Section 3	1.00	1.01	29.884	32.87	203.38	1.235	*	0.000	0.00	0.001	0.00	0.0	0.0	0.0
111.0		1.00	1.01	29.961	32.95	202.14	1.237	*	0.000	1.00	1.827	2.26	119.2	0.0	51.8
112.0		1.00	1.02	30.038	33.04	200.90	1.241	*	0.000	1.00	1.814	2.25	119.1	0.0	51.4
113.0		1.00	1.02	30.114	33.12	199.65	1.246	*	0.000	1.00	1.801	2.24	118.9	0.0	51.0
114.0		1.00	1.02	30.190	33.20	198.39	1.250	*	0.000	1.00	1.787	2.23	118.7	0.0	50.6
115.0		1.00	1.02	30.266	33.29	197.13	1.254	*	0.000	1.00	1.774	2.22	118.5	0.0	50.2
116.0		1.00	1.03	30.341	33.37	195.87	1.258	*	0.000	1.00	1.760	2.21	118.3	0.0	49.8
117.0		1.00	1.03	30.415	33.45	194.60	1.262	*	0.000	1.00	1.747	2.21	118.1	0.0	49.5
118.0		1.00	1.03	30.489	33.53	193.32	1.267	*	0.000	1.00	1.733	2.20	117.8	0.0	49.1
119.0		1.00	1.03	30.563	33.61	192.04	1.271	*	0.000	1.00	1.720	2.19	117.6	0.0	48.7
120.0		1.00	1.04	30.636	33.69	190.75	1.276	*	0.000	1.00	1.706	2.18	117.4	0.0	48.3
121.0		1.00	1.04	30.709	33.77	189.46	1.280	*	0.000	1.00	1.693	2.17	117.1	0.0	47.9
122.0		1.00	1.04	30.781	33.85	188.16	1.285	*	0.000	1.00	1.679	2.16	116.9	0.0	47.5
123.0		1.00	1.04	30.853	33.93	186.86	1.290	*	0.000	1.00	1.666	2.15	116.7	0.0	47.1
124.0		1.00	1.05	30.924	34.01	185.55	1.295	*	0.000	1.00	1.652	2.14	116.4	0.0	46.8
125.0		1.00	1.05	30.995	34.09	184.24	1.300	*	0.000	1.00	1.639	2.13	116.2	0.0	46.4
126.0		1.00	1.05	31.066	34.17	182.92	1.200	*	0.000	1.00	1.625	1.95	106.6	0.0	46.0
127.0		1.00	1.05	31.136	34.25	181.60	1.200	*	0.000	1.00	1.612	1.93	106.0	0.0	45.6
128.0		1.00	1.06	31.206	34.32	180.27	1.200	*	0.000	1.00	1.598	1.92	105.3	0.0	45.2
129.0		1.00	1.06	31.276	34.40	178.94	1.200	*	0.000	1.00	1.585	1.90	104.7	0.0	44.8
130.0		1.00	1.06	31.345	34.47	177.60	1.200	*	0.000	1.00	1.571	1.89	104.0	0.0	44.4
131.0		1.00	1.06	31.413	34.55	176.26	1.200	*	0.000	1.00	1.558	1.87	103.3	0.0	44.0
132.0		1.00	1.07	31.482	34.63	174.91	1.200	*	0.000	1.00	1.544	1.85	102.7	0.0	43.7
133.0		1.00	1.07	31.550	34.70	173.56	1.200	*	0.000	1.00	1.531	1.84	102.0	0.0	43.3
134.0		1.00	1.07	31.617	34.77	172.21	1.200	*	0.000	1.00	1.517	1.82	101.3	0.0	42.9
135.0		1.00	1.07	31.684	34.85	170.85	1.200	*	0.000	1.00	1.504	1.80	100.6	0.0	42.5
136.0		1.00	1.07	31.751	34.92	169.48	1.200	*	0.000	1.00	1.490	1.79	99.9	0.0	42.1
137.0		1.00	1.08	31.818	35.00	168.11	1.200	*	0.000	1.00	1.477	1.77	99.2	0.0	41.7
138.0		1.00	1.08	31.884	35.07	166.74	1.200	*	0.000	1.00	1.463	1.76	98.5	0.0	41.3
139.0		1.00	1.08	31.950	35.14	165.36	1.200	*	0.000	1.00	1.450	1.74	97.8	0.0	41.0
140.0		1.00	1.08	32.015	35.21	163.98	1.200	*	0.000	1.00	1.436	1.72	97.1	0.0	40.6
141.0		1.00	1.09	32.081	35.28	162.60	1.200	*	0.000	1.00	1.423	1.71	96.4	0.0	40.2
142.0		1.00	1.09	32.145	35.36	161.21	1.200	*	0.000	1.00	1.409	1.69	95.7	0.0	39.8
143.0		1.00	1.09	32.210	35.43	159.81	1.200	*	0.000	1.00	1.395	1.67	94.9	0.0	39.4
144.0		1.00	1.09	32.274	35.50	158.42	1.200	*	0.000	1.00	1.382	1.66	94.2	0.0	39.0
145.0		1.00	1.09	32.338	35.57	157.01	1.200	*	0.000	1.00	1.368	1.64	93.5	0.0	38.6
146.0	Appertunance(s)	1.00	1.10	32.402	35.64	155.61	1.200	*	0.000	1.00	1.355	1.63	92.7	0.0	38.3
147.0		1.00	1.10	32.465	35.71	154.20	1.000		0.000	1.00	1.341	1.34	76.6	0.0	37.9
148.0		1.00	1.10	32.528	35.78	152.78	1.000		0.000	1.00	1.328	1.33	76.0	0.0	37.5
149.0		1.00	1.10	32.590	35.84	151.37	1.000		0.000	1.00	1.314	1.31	75.4	0.0	37.1
150.0	Appertunance(s)	1.00	1.11	32.653	35.91	149.95	1.000		0.000	1.00	1.301	1.30	74.8	0.0	36.7
Totals:										**150.00**			**18,386.8**	**0.0**	**22,413.1**

*** = Cf Adjusted By Linear Load Ra Effect**

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:16 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 9**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



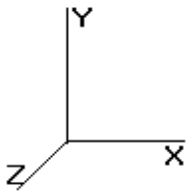
Load Case: **1.2D + 1.6W** **110.00 mph with No Ice** **36 Iterations**

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

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)
108.0	RFS FD9R6004/2C-3L	6	29.727	32.700	0.50	0.80	0.89	0.000	0.000	46.46	0.00	0.00	18.72
108.0	Commscope HBX-	3	29.727	32.700	0.68	0.80	5.42	0.000	0.000	283.48	0.00	0.00	37.44
108.0	Commscope HBX-	3	29.727	32.700	0.69	0.80	8.68	0.000	0.000	454.01	0.00	0.00	49.32
108.0	Antel BXA-70063/6CF_	3	29.727	32.700	0.65	0.80	11.81	0.000	0.000	617.86	0.00	0.00	61.20
108.0	Andrew LNX-6514DS-	3	29.727	32.700	0.69	0.80	13.53	0.000	0.000	707.87	0.00	0.00	139.68
108.0	RFS FD9R6004/1C-3L	6	29.727	32.700	0.50	0.80	0.89	0.000	0.000	46.46	0.00	0.00	22.32
108.0	Round Low Profile Pl	1	29.727	32.700	1.00	1.00	21.70	0.000	0.000	1,135.34	0.00	0.00	1,800.00
146.0	12" x 12" Junction B	3	32.402	35.642	0.50	0.80	1.44	0.000	0.000	82.12	0.00	0.00	36.00
146.0	NextNet BTS-2500	3	32.402	35.642	0.50	0.80	2.18	0.000	0.000	124.55	0.00	0.00	126.00
146.0	Argus LLPX310R	3	32.402	35.642	0.63	0.80	6.49	0.000	0.000	369.90	0.00	0.00	102.96
146.0	Collar	1	32.402	35.642	1.00	1.00	8.50	0.000	0.000	484.73	0.00	0.00	48.00
146.0	DragonWave Horizon	3	32.402	35.642	0.33	0.80	0.34	0.000	0.000	19.42	0.00	0.00	38.16
146.0	DragonWave A-ANT-	1	32.402	35.642	0.90	0.80	1.16	0.000	0.000	66.11	0.00	0.00	18.00
146.0	DragonWave A-ANT-	1	32.402	35.642	1.00	0.80	6.94	0.000	0.000	395.54	0.00	0.00	57.12
146.0	DragonWave A-ANT-	1	32.402	35.642	0.90	0.80	3.38	0.000	0.000	192.57	0.00	0.00	32.40
150.0	Round Low Profile Pl	1	32.653	35.918	1.00	1.00	21.70	0.000	0.000	1,247.07	0.00	0.00	1,800.00
150.0	Allgon 7770.00	3	32.838	36.122	0.65	0.80	8.60	0.000	3.000	496.78	0.00	1,490.34	126.00
150.0	Powerwave LGP21401	6	32.838	36.122	0.50	0.80	2.64	0.000	3.000	152.58	0.00	457.74	101.52
150.0	Powerwave LGP21901	6	32.838	36.122	0.50	0.80	0.55	0.000	3.000	31.90	0.00	95.71	39.60
150.0	Raycap DC6-48-60-18-	1	32.838	36.122	1.00	0.80	0.89	0.000	3.000	51.32	0.00	153.97	24.00
150.0	Tophat	1	32.746	36.020	1.00	1.00	3.50	0.000	1.500	201.71	0.00	302.57	240.00
150.0	Kathrein 782 10250	6	32.838	36.122	0.50	0.80	1.25	0.000	3.000	72.13	0.00	216.38	46.08
150.0	Raycap DC6-48-60-18-	2	32.838	36.122	1.00	0.80	2.05	0.000	3.000	118.36	0.00	355.09	76.32
150.0	Ericsson RRUS A2 B2	3	32.838	36.122	0.50	0.80	2.47	0.000	3.000	142.87	0.00	428.61	79.20
150.0	Ericsson RRUS 11 (Ba	6	32.838	36.122	0.50	0.80	6.70	0.000	3.000	386.99	0.00	1,160.98	365.04
150.0	Ericsson RRUS 12	3	32.838	36.122	0.50	0.80	3.78	0.000	3.000	218.46	0.00	655.39	180.00
150.0	Ericsson RRUS E2 B29	3	32.838	36.122	0.50	0.80	3.78	0.000	3.000	218.46	0.00	655.39	216.00
150.0	Ericsson RRUS-32	3	32.838	36.122	0.50	0.80	3.97	0.000	3.000	229.56	0.00	688.68	277.20
150.0	CCI OPA-65R-LCUU-H6	6	32.838	36.122	0.66	0.80	30.60	0.000	3.000	1,768.69	0.00	5,306.07	525.60
										10,363.31			6,683.88

Pole :	302482	Code: ANSI/TIA-222 Rev G	
Location :	North Haven CT 1, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

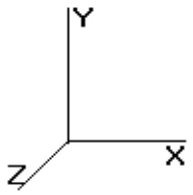
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

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)
1.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.194	1.283	0.00	0.00
2.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.195	1.285	0.00	0.00
3.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.196	1.288	0.00	0.00
4.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.197	1.290	0.00	0.00
5.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.198	1.293	0.00	0.00
6.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	0.34
6.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	1.42
6.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.302	0.000	5.62	0.76
6.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	5.04
6.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	1.08
6.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.302	0.000	8.63	9.10
6.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	0.32
6.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.302	0.000	15.13	0.00
7.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	0.34
7.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	1.42
7.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.304	0.000	5.62	0.76
7.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	5.04
7.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	1.08
7.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.304	0.000	8.63	9.10
7.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	0.32
7.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.304	0.000	15.13	0.00
8.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	0.34
8.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	1.42
8.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.305	0.000	5.62	0.76
8.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	5.04
8.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	1.08
8.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.305	0.000	8.63	9.10
8.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	0.32
8.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.305	0.000	15.13	0.00
9.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	0.34
9.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	1.42
9.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.306	0.000	5.62	0.76
9.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	5.04
9.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	1.08
9.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.306	0.000	8.63	9.10
9.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	0.32
9.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.306	0.000	15.13	0.00
10.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	0.34
10.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	1.42
10.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.308	0.000	5.62	0.76
10.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	5.04
10.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	1.08
10.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.308	0.000	8.63	9.10
10.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	0.32
10.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.308	0.000	15.13	0.00
11.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	0.34
11.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	1.42
11.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.309	0.000	5.62	0.76
11.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	5.04
11.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	1.08
11.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.309	0.000	8.63	9.10

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:16 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	11
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

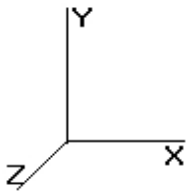


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

11.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	0.32
11.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.309	0.000	15.13	0.00
12.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	0.34
12.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	1.42
12.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.310	0.000	5.62	0.76
12.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	5.04
12.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	1.08
12.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.310	0.000	8.63	9.10
12.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	0.32
12.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.310	0.000	15.13	0.00
12.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	0.17
12.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	0.71
12.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	20.599	0.311	0.000	2.81	0.38
12.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	2.52
12.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	0.54
12.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	20.599	0.311	0.000	4.31	4.55
12.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	0.16
12.50	(4) # 20 Dywidag	Yes	0.50	0.668	7.50	0.31	0.21	20.599	0.311	0.000	7.56	0.00
13.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	0.17
13.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	0.71
13.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	20.599	0.312	0.000	2.81	0.38
13.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	2.52
13.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	0.54
13.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	20.599	0.312	0.000	4.31	4.55
13.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	0.16
13.00	(4) # 20 Dywidag	Yes	0.50	0.668	7.50	0.31	0.21	20.599	0.312	0.000	7.56	0.00
14.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	0.34
14.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	1.42
14.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.313	0.000	5.62	0.76
14.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	5.04
14.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	1.08
14.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.313	0.000	8.63	9.10
14.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	0.32
14.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.313	0.000	15.13	0.00
15.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	0.34
15.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	1.42
15.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.315	0.000	5.62	0.76
15.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	5.04
15.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	1.08
15.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.315	0.000	8.63	9.10
15.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	0.32
15.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.315	0.000	15.13	0.00
16.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	0.34
16.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	1.42
16.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.316	0.000	5.62	0.76
16.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	5.04
16.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	1.08
16.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.316	0.000	8.63	9.10
16.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	0.32
16.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.316	0.000	15.13	0.00
17.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	0.34
17.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	1.42
17.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.317	0.000	5.62	0.76
17.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	5.04
17.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	1.08
17.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.317	0.000	8.63	9.10
17.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	0.32

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:16 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page: 12**	
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **1.2D + 1.6W** **110.00 mph with No Ice** **36 Iterations**

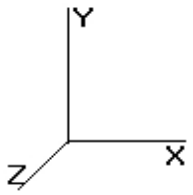
Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**

Dead Load Factor : 1.20

Wind Load Factor : 1.60

17.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.317	0.000	15.13	0.00
18.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	0.34
18.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	1.42
18.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.319	0.000	5.62	0.76
18.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	5.04
18.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	1.08
18.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.319	0.000	8.63	9.10
18.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	0.32
18.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.319	0.000	15.13	0.00
19.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	0.34
19.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	1.42
19.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.320	0.000	5.62	0.76
19.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	5.04
19.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	1.08
19.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.320	0.000	8.63	9.10
19.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	0.32
19.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.320	0.000	15.13	0.00
20.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	0.34
20.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	1.42
20.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.322	0.000	5.62	0.76
20.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	5.04
20.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	1.08
20.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.322	0.000	8.63	9.10
20.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	0.32
20.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.322	0.000	15.13	0.00
21.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	0.34
21.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	1.42
21.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.323	0.000	5.62	0.76
21.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	5.04
21.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	1.08
21.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.323	0.000	8.63	9.10
21.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	0.32
21.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.323	0.000	15.13	0.00
22.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	0.34
22.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	1.42
22.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.325	0.000	5.62	0.76
22.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	5.04
22.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	1.08
22.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.325	0.000	8.63	9.10
22.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	0.32
22.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.325	0.000	15.13	0.00
23.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	0.34
23.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	1.42
23.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.326	0.000	5.62	0.76
23.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	5.04
23.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	1.08
23.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.326	0.000	8.63	9.10
23.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	0.32
23.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.326	0.000	15.13	0.00
24.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	0.34
24.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	1.42
24.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.328	0.000	5.62	0.76
24.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	5.04
24.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	1.08
24.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.328	0.000	8.63	9.10
24.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	0.32
24.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.328	0.000	15.13	0.00

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:16 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	13
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

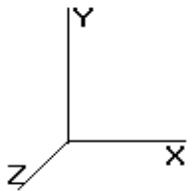


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

25.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	0.34
25.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	1.42
25.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.329	0.000	5.62	0.76
25.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	5.04
25.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	1.08
25.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.329	0.000	8.63	9.10
25.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	0.32
25.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.329	0.000	15.13	0.00
26.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	0.34
26.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	1.42
26.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.331	0.000	5.62	0.76
26.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	5.04
26.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	1.08
26.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.331	0.000	8.63	9.10
26.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	0.32
26.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.331	0.000	15.13	0.00
27.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	0.34
27.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	1.42
27.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.332	0.000	5.62	0.76
27.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	5.04
27.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	1.08
27.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.332	0.000	8.63	9.10
27.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	0.32
27.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.332	0.000	15.13	0.00
28.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	0.34
28.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	1.42
28.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.334	0.000	5.62	0.76
28.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	5.04
28.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	1.08
28.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.334	0.000	8.63	9.10
28.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	0.32
28.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.334	0.000	15.13	0.00
29.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	0.34
29.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	1.42
29.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.335	0.000	5.62	0.76
29.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	5.04
29.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	1.08
29.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.335	0.000	8.63	9.10
29.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	0.32
29.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.335	0.000	15.13	0.00
30.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	0.34
30.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	1.42
30.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.616	0.337	0.000	5.62	0.76
30.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	5.04
30.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	1.08
30.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.616	0.337	0.000	8.64	9.10
30.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	0.32
30.00	(4) # 20 Dywidag	Yes	1.00	0.667	7.50	0.63	0.42	20.616	0.337	0.000	15.13	0.00
31.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	0.34
31.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	1.42
31.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.810	0.339	0.000	5.68	0.76
31.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	5.04
31.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	1.08
31.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.810	0.339	0.000	8.72	9.10
31.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	0.32
31.00	(4) # 20 Dywidag	Yes	1.00	0.664	7.50	0.63	0.42	20.810	0.339	0.000	15.20	0.00
31.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	0.17

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:16 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page: 14**	
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

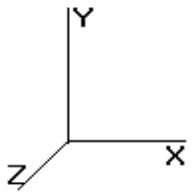
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

31.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	0.71
31.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	20.906	0.340	0.000	2.85	0.38
31.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	2.52
31.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	0.54
31.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	20.906	0.340	0.000	4.38	4.55
31.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	0.16
31.50	(4) # 20 Dywidag	Yes	0.50	0.663	7.50	0.31	0.21	20.906	0.340	0.000	7.62	0.00
32.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	0.17
32.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	0.71
32.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	21.000	0.341	0.000	2.86	0.38
32.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	2.52
32.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	0.54
32.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	21.000	0.341	0.000	4.40	4.54
32.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	0.16
32.00	(4) # 20 Dywidag	Yes	0.50	0.661	7.50	0.31	0.21	21.000	0.341	0.000	7.63	0.00
33.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	0.34
33.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	1.42
33.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	21.186	0.342	0.000	5.78	0.76
33.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	5.04
33.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	1.08
33.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	21.186	0.342	0.000	8.87	9.10
33.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	0.32
33.00	(4) # 20 Dywidag	Yes	1.00	0.658	7.50	0.63	0.41	21.186	0.342	0.000	15.34	0.00
34.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	0.34
34.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	1.42
34.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	21.367	0.344	0.000	5.83	0.76
34.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	5.04
34.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	1.08
34.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	21.367	0.344	0.000	8.95	9.10
34.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	0.32
34.00	(4) # 20 Dywidag	Yes	1.00	0.655	7.50	0.63	0.41	21.367	0.344	0.000	15.41	0.00
35.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	0.34
35.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	1.42
35.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	21.545	0.345	0.000	5.88	0.76
35.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	5.04
35.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	1.08
35.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	21.545	0.345	0.000	9.02	9.10
35.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	0.32
35.00	(4) # 20 Dywidag	Yes	1.00	0.653	7.50	0.63	0.41	21.545	0.345	0.000	15.47	0.00
35.67	(2) 0.51" Hybrid	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	0.22
35.67	(2) 0.78" 8 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	0.94
35.67	(1) 1 1/4" Coax	Yes	0.67	1.200	1.55	0.09	0.10	21.661	0.347	0.000	3.94	0.50
35.67	(4) 1.24" 4 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	3.36
35.67	(6) 1/2" Coax	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	0.72
35.67	(1) 3" Conduit	Yes	0.67	1.200	2.38	0.13	0.16	21.661	0.347	0.000	6.05	6.07
35.67	(6) 5/16" Coax	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	0.22
35.67	(4) # 20 Dywidag	Yes	0.67	0.651	7.50	0.42	0.27	21.661	0.347	0.000	10.35	0.00
36.00	(2) 0.51" Hybrid	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	0.11
36.00	(2) 0.78" 8 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	0.47
36.00	(1) 1 1/4" Coax	Yes	0.33	1.200	1.55	0.04	0.05	21.719	0.341	0.000	1.97	0.25
36.00	(4) 1.24" 4 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	1.68
36.00	(6) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	0.36
36.00	(1) 3" Conduit	Yes	0.33	1.200	2.38	0.07	0.08	21.719	0.341	0.000	3.03	3.03
36.00	(6) 5/16" Coax	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	0.11
36.00	(4) # 20 Dywidag	Yes	0.33	0.650	7.50	0.21	0.14	21.719	0.341	0.000	5.17	0.00
37.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	0.34
37.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	1.42

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:16 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	15
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

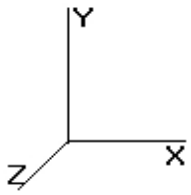
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

37.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	21.890	0.342	0.000	5.97	0.76
37.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	5.04
37.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	1.08
37.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	21.890	0.342	0.000	9.17	9.10
37.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	0.32
37.00	(4) # 20 Dywidag	Yes	1.00	0.648	7.50	0.63	0.40	21.890	0.342	0.000	15.59	0.00
38.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	0.34
38.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	1.42
38.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.057	0.344	0.000	6.02	0.76
38.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	5.04
38.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	1.08
38.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.057	0.344	0.000	9.24	9.10
38.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	0.32
38.00	(4) # 20 Dywidag	Yes	1.00	0.645	7.50	0.63	0.40	22.057	0.344	0.000	15.65	0.00
39.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	0.34
39.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	1.42
39.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.221	0.345	0.000	6.06	0.76
39.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	5.04
39.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	1.08
39.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.221	0.345	0.000	9.31	9.10
39.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	0.32
39.00	(4) # 20 Dywidag	Yes	1.00	0.643	7.50	0.63	0.40	22.221	0.345	0.000	15.71	0.00
40.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	0.34
40.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	1.42
40.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.383	0.347	0.000	6.11	0.76
40.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	5.04
40.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	1.08
40.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.383	0.347	0.000	9.38	9.10
40.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	0.32
40.00	(4) # 20 Dywidag	Yes	1.00	0.640	7.50	0.63	0.40	22.383	0.347	0.000	15.77	0.00
41.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	0.34
41.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	1.42
41.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.541	0.349	0.000	6.15	0.76
41.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	5.04
41.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	1.08
41.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.541	0.349	0.000	9.44	9.10
41.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	0.32
41.00	(4) # 20 Dywidag	Yes	1.00	0.638	7.50	0.63	0.40	22.541	0.349	0.000	15.82	0.00
42.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	0.34
42.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	1.42
42.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.697	0.351	0.000	6.19	0.76
42.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	5.04
42.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	1.08
42.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.697	0.351	0.000	9.51	9.10
42.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	0.32
42.00	(4) # 20 Dywidag	Yes	1.00	0.636	7.50	0.63	0.40	22.697	0.351	0.000	15.88	0.00
43.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	0.34
43.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	1.42
43.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.850	0.352	0.000	6.23	0.76
43.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	5.04
43.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	1.08
43.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.850	0.352	0.000	9.57	9.10
43.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	0.32
43.00	(4) # 20 Dywidag	Yes	1.00	0.634	7.50	0.63	0.40	22.850	0.352	0.000	15.93	0.00
44.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	0.34
44.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	1.42
44.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.000	0.354	0.000	6.27	0.76

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:17 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	16
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

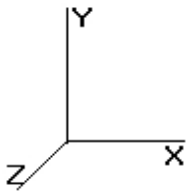


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

44.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	5.04
44.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	1.08
44.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.000	0.354	0.000	9.63	9.10
44.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	0.32
44.00	(4) # 20 Dywidag	Yes	1.00	0.632	7.50	0.63	0.39	23.000	0.354	0.000	15.98	0.00
45.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	0.34
45.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	1.42
45.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.149	0.356	0.000	6.31	0.76
45.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	5.04
45.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	1.08
45.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.149	0.356	0.000	9.70	9.10
45.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	0.32
45.00	(4) # 20 Dywidag	Yes	1.00	0.630	7.50	0.63	0.39	23.149	0.356	0.000	16.04	0.00
46.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	0.34
46.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	1.42
46.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.294	0.358	0.000	6.35	0.76
46.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	5.04
46.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	1.08
46.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.294	0.358	0.000	9.76	9.10
46.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	0.32
46.00	(4) # 20 Dywidag	Yes	1.00	0.628	7.50	0.63	0.39	23.294	0.358	0.000	16.09	0.00
47.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	0.34
47.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	1.42
47.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.438	0.359	0.000	6.39	0.76
47.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	5.04
47.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	1.08
47.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.438	0.359	0.000	9.82	9.10
47.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	0.32
47.00	(4) # 20 Dywidag	Yes	1.00	0.626	7.50	0.63	0.39	23.438	0.359	0.000	16.14	0.00
48.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	0.34
48.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	1.42
48.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.579	0.361	0.000	6.43	0.76
48.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	5.04
48.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	1.08
48.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.579	0.361	0.000	9.88	9.10
48.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	0.32
48.00	(4) # 20 Dywidag	Yes	1.00	0.624	7.50	0.63	0.39	23.579	0.361	0.000	16.18	0.00
49.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	0.34
49.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	1.42
49.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.719	0.363	0.000	6.47	0.76
49.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	5.04
49.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	1.08
49.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.719	0.363	0.000	9.94	9.10
49.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	0.32
49.00	(4) # 20 Dywidag	Yes	1.00	0.622	7.50	0.63	0.39	23.719	0.363	0.000	16.23	0.00
50.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	0.34
50.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	1.42
50.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.856	0.365	0.000	6.51	0.76
50.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	5.04
50.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	1.08
50.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.856	0.365	0.000	9.99	9.10
50.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	0.32
50.00	(4) # 20 Dywidag	Yes	1.00	0.620	7.50	0.63	0.39	23.856	0.365	0.000	16.28	0.00
51.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	0.34
51.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	1.42
51.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.991	0.367	0.000	6.54	0.76
51.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	5.04

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:17 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 17	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

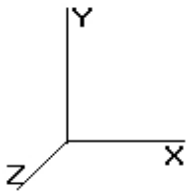


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

51.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	1.08
51.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.991	0.367	0.000	10.05	9.10
51.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	0.32
51.00	(4) # 20 Dywidag	Yes	1.00	0.619	7.50	0.63	0.39	23.991	0.367	0.000	16.33	0.00
52.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	0.34
52.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	1.42
52.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.125	0.369	0.000	6.58	0.76
52.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	5.04
52.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	1.08
52.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.125	0.369	0.000	10.11	9.10
52.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	0.32
52.00	(4) # 20 Dywidag	Yes	1.00	0.617	7.50	0.63	0.39	24.125	0.369	0.000	16.37	0.00
53.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	0.34
53.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	1.42
53.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.257	0.371	0.000	6.62	0.76
53.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	5.04
53.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	1.08
53.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.257	0.371	0.000	10.16	9.10
53.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	0.32
53.00	(4) # 20 Dywidag	Yes	1.00	0.615	7.50	0.63	0.38	24.257	0.371	0.000	16.41	0.00
54.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	0.34
54.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	1.42
54.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.386	0.373	0.000	6.65	0.76
54.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	5.04
54.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	1.08
54.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.386	0.373	0.000	10.21	9.10
54.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	0.32
54.00	(4) # 20 Dywidag	Yes	1.00	0.614	7.50	0.63	0.38	24.386	0.373	0.000	16.46	0.00
55.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	0.34
55.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	1.42
55.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.515	0.375	0.000	6.69	0.76
55.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	5.04
55.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	1.08
55.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.515	0.375	0.000	10.27	9.10
55.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	0.32
55.00	(4) # 20 Dywidag	Yes	1.00	0.612	7.50	0.63	0.38	24.515	0.375	0.000	16.50	0.00
56.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	0.34
56.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	1.42
56.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.641	0.377	0.000	6.72	0.76
56.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	5.04
56.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	1.08
56.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.641	0.377	0.000	10.32	9.10
56.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	0.32
56.00	(4) # 20 Dywidag	Yes	1.00	0.610	7.50	0.63	0.38	24.641	0.377	0.000	16.54	0.00
57.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	0.34
57.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	1.42
57.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.766	0.379	0.000	6.76	0.76
57.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	5.04
57.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	1.08
57.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.766	0.379	0.000	10.37	9.10
57.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	0.32
57.00	(4) # 20 Dywidag	Yes	1.00	0.609	7.50	0.63	0.38	24.766	0.379	0.000	16.59	0.00
58.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	0.34
58.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	1.42
58.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.889	0.381	0.000	6.79	0.76
58.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	5.04
58.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	1.08

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:17 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 18	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

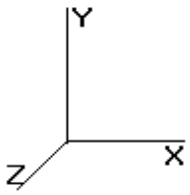


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

58.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.889	0.381	0.000	10.43	9.10
58.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	0.32
58.00	(4) # 20 Dywidag	Yes	1.00	0.607	7.50	0.63	0.38	24.889	0.381	0.000	16.63	0.00
59.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	0.34
59.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	1.42
59.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.011	0.383	0.000	6.82	0.76
59.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	5.04
59.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	1.08
59.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.011	0.383	0.000	10.48	9.10
59.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	0.32
59.00	(4) # 20 Dywidag	Yes	1.00	0.606	7.50	0.63	0.38	25.011	0.383	0.000	16.67	0.00
60.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	0.34
60.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	1.42
60.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.132	0.385	0.000	6.86	0.76
60.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	5.04
60.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	1.08
60.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.132	0.385	0.000	10.53	9.10
60.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	0.32
60.00	(4) # 20 Dywidag	Yes	1.00	0.604	7.50	0.63	0.38	25.132	0.385	0.000	16.71	0.00
61.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	0.34
61.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	1.42
61.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.251	0.387	0.000	6.89	0.76
61.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	5.04
61.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	1.08
61.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.251	0.387	0.000	10.58	9.10
61.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	0.32
61.00	(4) # 20 Dywidag	Yes	1.00	0.603	7.50	0.63	0.38	25.251	0.387	0.000	16.75	0.00
62.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	0.34
62.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	1.42
62.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.368	0.389	0.000	6.92	0.76
62.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	5.04
62.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	1.08
62.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.368	0.389	0.000	10.63	9.10
62.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	0.32
62.00	(4) # 20 Dywidag	Yes	1.00	0.602	7.50	0.63	0.38	25.368	0.389	0.000	16.79	0.00
63.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	0.34
63.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	1.42
63.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.485	0.391	0.000	6.95	0.76
63.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	5.04
63.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	1.08
63.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.485	0.391	0.000	10.67	9.10
63.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	0.32
63.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.485	0.391	0.000	16.83	0.00
64.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	0.34
64.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	1.42
64.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.599	0.394	0.000	6.98	0.76
64.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	5.04
64.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	1.08
64.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.599	0.394	0.000	10.72	9.10
64.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	0.32
64.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.599	0.394	0.000	16.90	0.00
65.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	0.34
65.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	1.42
65.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.713	0.396	0.000	7.01	0.76
65.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	5.04
65.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	1.08
65.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.713	0.396	0.000	10.77	9.10

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:17 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 19	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

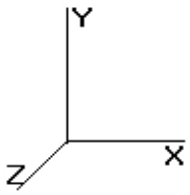


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

65.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	0.32
65.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.713	0.396	0.000	16.97	0.00
66.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	0.34
66.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	1.42
66.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.825	0.398	0.000	7.05	0.76
66.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	5.04
66.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	1.08
66.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.825	0.398	0.000	10.82	9.10
66.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	0.32
66.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.825	0.398	0.000	17.04	0.00
67.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	0.34
67.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	1.42
67.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.937	0.400	0.000	7.08	0.76
67.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	5.04
67.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	1.08
67.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.937	0.400	0.000	10.86	9.10
67.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	0.32
67.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.937	0.400	0.000	17.12	0.00
68.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	0.34
68.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	1.42
68.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.047	0.403	0.000	7.11	0.76
68.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	5.04
68.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	1.08
68.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.047	0.403	0.000	10.91	9.10
68.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	0.32
68.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.047	0.403	0.000	17.19	0.00
69.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	0.34
69.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	1.42
69.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.156	0.405	0.000	7.14	0.76
69.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	5.04
69.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	1.08
69.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.156	0.405	0.000	10.96	9.10
69.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	0.32
69.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.156	0.405	0.000	17.26	0.00
70.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	0.34
70.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	1.42
70.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.263	0.407	0.000	7.16	0.76
70.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	5.04
70.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	1.08
70.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.263	0.407	0.000	11.00	9.10
70.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	0.32
70.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.263	0.407	0.000	17.33	0.00
70.00	(2) 0.51" Hybrid	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(2) 0.78" 8 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(1) 1 1/4" Coax	Yes	0.00	1.200	1.55	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(4) 1.24" 4 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(6) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(1) 3" Conduit	Yes	0.00	1.200	2.38	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(6) 5/16" Coax	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(4) # 20 Dywidag	Yes	0.00	0.600	7.50	0.00	0.00	26.263	0.408	0.000	0.01	0.00
71.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	0.34
71.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	1.42
71.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.15	26.370	0.410	0.000	7.19	0.76
71.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	5.04
71.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	1.08
71.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.370	0.410	0.000	11.04	9.09
71.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	0.32

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:17 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 20	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



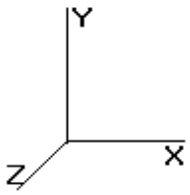
Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

Wind Importance Factor : 1.00

71.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.62	0.37	26.370	0.410	0.000	17.40	0.00
72.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	0.34
72.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	1.42
72.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.476	0.412	0.000	7.22	0.76
72.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	5.04
72.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	1.08
72.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.476	0.412	0.000	11.09	9.10
72.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	0.32
72.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.476	0.412	0.000	17.47	0.00
73.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	0.34
73.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	1.42
73.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.580	0.414	0.000	7.25	0.76
73.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	5.04
73.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	1.08
73.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.580	0.414	0.000	11.13	9.10
73.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	0.32
73.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.580	0.414	0.000	17.54	0.00
73.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	0.17
73.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	0.71
73.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	26.632	0.416	0.000	3.64	0.38
73.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	2.52
73.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	0.54
73.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	26.632	0.416	0.000	5.58	4.55
73.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	0.16
73.50	(4) # 20 Dywidag	Yes	0.50	0.600	7.50	0.31	0.19	26.632	0.416	0.000	8.79	0.00
74.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	0.17
74.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	0.71
74.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	26.684	0.410	0.000	3.64	0.38
74.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	2.52
74.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	0.54
74.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	26.684	0.410	0.000	5.58	4.54
74.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	0.16
74.00	(4) # 20 Dywidag	Yes	0.50	0.600	7.50	0.31	0.19	26.684	0.410	0.000	8.80	0.00
75.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	0.34
75.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	1.42
75.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.786	0.412	0.000	7.31	0.76
75.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	5.04
75.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	1.08
75.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.786	0.412	0.000	11.22	9.10
75.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	0.32
75.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.786	0.412	0.000	17.68	0.00
76.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	0.34
76.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	1.42
76.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.888	0.414	0.000	7.33	0.76
76.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	5.04
76.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	1.08
76.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.888	0.414	0.000	11.26	9.10
76.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	0.32
76.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.888	0.414	0.000	17.75	0.00
77.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	0.34
77.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	1.42
77.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.988	0.416	0.000	7.36	0.76
77.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	5.04
77.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	1.08
77.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.988	0.416	0.000	11.30	9.10
77.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	0.32
77.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.988	0.416	0.000	17.81	0.00

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:17 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 21	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

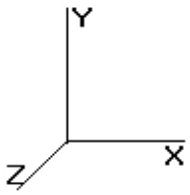
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

78.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	0.34
78.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	1.42
78.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.088	0.419	0.000	7.39	0.76
78.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	5.04
78.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	1.08
78.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.088	0.419	0.000	11.35	9.10
78.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	0.32
78.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.088	0.419	0.000	17.88	0.00
79.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	0.34
79.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	1.42
79.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.187	0.421	0.000	7.42	0.76
79.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	5.04
79.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	1.08
79.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.187	0.421	0.000	11.39	9.10
79.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	0.32
79.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.187	0.421	0.000	17.94	0.00
80.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	0.34
80.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	1.42
80.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.285	0.424	0.000	7.44	0.76
80.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	5.04
80.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	1.08
80.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.285	0.424	0.000	11.43	9.10
80.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	0.32
80.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.285	0.424	0.000	18.01	0.00
81.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	0.34
81.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	1.42
81.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.382	0.426	0.000	7.47	0.76
81.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	5.04
81.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	1.08
81.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.382	0.426	0.000	11.47	9.10
81.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	0.32
81.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.382	0.426	0.000	18.07	0.00
82.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	0.34
82.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	1.42
82.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.478	0.429	0.000	7.50	0.76
82.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	5.04
82.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	1.08
82.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.478	0.429	0.000	11.51	9.10
82.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	0.32
82.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.478	0.429	0.000	18.14	0.00
83.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	0.34
83.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	1.42
83.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.573	0.432	0.000	7.52	0.76
83.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	5.04
83.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	1.08
83.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.573	0.432	0.000	11.55	9.10
83.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	0.32
83.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.573	0.432	0.000	18.20	0.00
84.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	0.34
84.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	1.42
84.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.668	0.434	0.000	7.55	0.76
84.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	5.04
84.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	1.08
84.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.668	0.434	0.000	11.59	9.10
84.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	0.32
84.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.668	0.434	0.000	18.26	0.00
85.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	0.34

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:17 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**22**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **1.2D + 1.6W** **110.00 mph with No Ice** **36 Iterations**

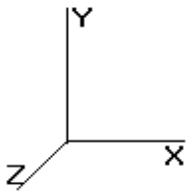
Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**

Dead Load Factor : 1.20

Wind Load Factor : 1.60

85.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	1.42
85.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.761	0.437	0.000	7.57	0.76
85.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	5.04
85.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	1.08
85.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.761	0.437	0.000	11.63	9.10
85.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	0.32
85.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.761	0.437	0.000	18.32	0.00
86.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	0.34
86.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	1.42
86.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.854	0.440	0.000	7.60	0.76
86.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	5.04
86.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	1.08
86.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.854	0.440	0.000	11.67	9.10
86.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	0.32
86.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.854	0.440	0.000	18.38	0.00
86.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	0.17
86.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	0.71
86.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	27.901	0.442	0.000	3.81	0.38
86.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	2.52
86.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	0.54
86.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	27.901	0.442	0.000	5.84	4.55
86.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	0.16
86.50	(4) # 20 Dywidag	Yes	0.50	0.600	7.50	0.31	0.19	27.901	0.442	0.000	9.21	0.00
87.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	0.17
87.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	0.71
87.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	27.946	0.443	0.000	3.81	0.38
87.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	2.52
87.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	0.54
87.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	27.946	0.443	0.000	5.85	4.55
87.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	0.16
87.00	(4) # 20 Dywidag	Yes	0.50	0.600	7.50	0.31	0.19	27.946	0.443	0.000	9.22	0.00
88.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	0.34
88.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	1.42
88.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.038	0.445	0.000	7.65	0.76
88.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	5.04
88.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	1.08
88.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.038	0.445	0.000	11.74	9.10
88.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	0.32
88.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.038	0.445	0.000	18.51	0.00
89.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	0.34
89.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	1.42
89.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.129	0.448	0.000	7.67	0.76
89.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	5.04
89.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	1.08
89.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.129	0.448	0.000	11.78	9.10
89.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	0.32
89.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.129	0.448	0.000	18.56	0.00
90.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	0.34
90.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	1.42
90.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.219	0.451	0.000	7.70	0.76
90.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	5.04
90.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	1.08
90.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.219	0.451	0.000	11.82	9.10
90.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	0.32
90.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.219	0.451	0.000	18.62	0.00
91.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	0.34
91.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	1.42

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:18 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 23	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

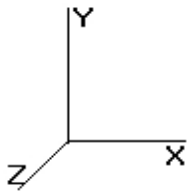


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

91.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.308	0.454	0.000	7.72	0.76
91.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	5.04
91.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	1.08
91.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.308	0.454	0.000	11.86	9.10
91.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	0.32
91.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.308	0.454	0.000	18.68	0.00
92.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	0.34
92.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	1.42
92.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.396	0.457	0.000	7.75	0.76
92.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	5.04
92.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	1.08
92.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.396	0.457	0.000	11.89	9.10
92.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	0.32
92.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.396	0.457	0.000	18.74	0.00
93.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	0.34
93.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	1.42
93.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.484	0.460	0.000	7.77	0.76
93.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	5.04
93.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	1.08
93.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.484	0.460	0.000	11.93	9.10
93.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	0.32
93.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.484	0.460	0.000	18.80	0.00
94.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	0.34
94.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	1.42
94.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.571	0.463	0.000	7.79	0.76
94.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	5.04
94.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	1.08
94.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.571	0.463	0.000	11.97	9.10
94.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	0.32
94.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.571	0.463	0.000	18.86	0.00
95.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	0.34
95.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	1.42
95.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.658	0.466	0.000	7.82	0.76
95.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	5.04
95.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	1.08
95.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.658	0.466	0.000	12.00	9.10
95.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	0.32
95.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.658	0.466	0.000	18.91	0.00
95.33	(2) 0.51" Hybrid	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	0.11
95.33	(2) 0.78" 8 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	0.47
95.33	(1) 1 1/4" Coax	Yes	0.33	1.200	1.55	0.04	0.05	28.686	0.468	0.000	2.61	0.25
95.33	(4) 1.24" 4 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	1.68
95.33	(6) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	0.36
95.33	(1) 3" Conduit	Yes	0.33	1.200	2.38	0.07	0.08	28.686	0.468	0.000	4.00	3.03
95.33	(6) 5/16" Coax	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	0.11
95.33	(4) # 20 Dywidag	Yes	0.33	0.600	7.50	0.21	0.12	28.686	0.468	0.000	6.31	0.00
96.00	(2) 0.51" Hybrid	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	0.22
96.00	(2) 0.78" 8 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	0.94
96.00	(1) 1 1/4" Coax	Yes	0.67	1.200	1.55	0.09	0.10	28.744	0.470	0.000	5.23	0.50
96.00	(4) 1.24" 4 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	3.36
96.00	(6) 1/2" Coax	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	0.72
96.00	(1) 3" Conduit	Yes	0.67	1.200	2.38	0.13	0.16	28.744	0.470	0.000	8.03	6.07
96.00	(6) 5/16" Coax	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	0.22
96.00	(4) # 20 Dywidag	Yes	0.67	0.600	7.50	0.42	0.25	28.744	0.470	0.000	12.65	0.00
97.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	0.34
97.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	1.42
97.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.829	0.472	0.000	7.86	0.76

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:18 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	24
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



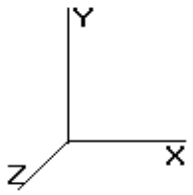
Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

Wind Importance Factor : 1.00

97.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	5.04
97.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	1.08
97.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.829	0.472	0.000	12.08	9.10
97.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	0.32
97.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.829	0.472	0.000	19.03	0.00
98.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	0.34
98.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	1.42
98.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.913	0.475	0.000	7.89	0.76
98.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	5.04
98.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	1.08
98.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.913	0.475	0.000	12.11	9.10
98.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	0.32
98.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.913	0.475	0.000	19.08	0.00
99.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	0.34
99.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	1.42
99.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.997	0.479	0.000	7.91	0.76
99.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	5.04
99.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	1.08
99.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.997	0.479	0.000	12.15	9.10
99.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	0.32
99.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.997	0.479	0.000	19.14	0.00
100.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	0.34
100.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	1.42
100.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	29.081	0.482	0.000	7.93	0.76
100.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	5.04
100.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	1.08
100.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	29.081	0.482	0.000	12.18	9.10
100.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	0.32
100.0	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	29.081	0.482	0.000	19.19	0.00
101.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	0.34
101.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	1.42
101.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	29.164	0.485	0.000	7.96	0.76
101.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	5.04
101.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	1.08
101.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	29.164	0.485	0.000	12.22	9.10
101.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	0.32
101.0	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	29.164	0.485	0.000	19.25	0.00
102.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	0.34
102.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	1.42
102.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.246	0.168	1.204	0.00	0.76
102.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	5.04
102.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	1.08
102.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.246	0.168	1.204	0.00	9.10
102.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	0.32
103.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	0.34
103.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	1.42
103.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.328	0.169	1.207	0.00	0.76
103.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	5.04
103.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	1.08
103.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.328	0.169	1.207	0.00	9.10
103.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	0.32
104.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	0.34
104.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	1.42
104.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.409	0.170	1.211	0.00	0.76
104.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	5.04
104.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	1.08
104.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.409	0.170	1.211	0.00	9.10

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:18 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 25	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

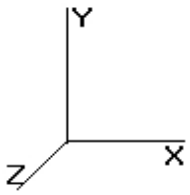


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

104.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	0.32
105.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	0.34
105.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	1.42
105.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.489	0.172	1.215	0.00	0.76
105.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	5.04
105.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	1.08
105.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.489	0.172	1.215	0.00	9.10
105.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	0.32
106.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	0.34
106.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	1.42
106.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.569	0.173	1.218	0.00	0.76
106.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	5.04
106.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	1.08
106.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.569	0.173	1.218	0.00	9.10
106.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	0.32
107.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	0.34
107.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	1.42
107.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.649	0.174	1.222	0.00	0.76
107.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	5.04
107.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	1.08
107.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.649	0.174	1.222	0.00	9.10
107.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	0.32
108.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	0.34
108.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	1.42
108.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.727	0.175	1.226	0.00	0.76
108.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	5.04
108.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	1.08
108.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.727	0.175	1.226	0.00	9.10
108.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	0.32
109.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	0.34
109.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	1.42
109.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.806	0.177	1.230	0.00	0.76
109.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	5.04
109.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	1.08
109.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.806	0.177	1.230	0.00	9.10
109.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	0.32
110.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	0.34
110.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	1.42
110.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.884	0.178	1.234	0.00	0.76
110.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	5.04
110.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	1.08
110.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.884	0.178	1.234	0.00	9.10
110.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	0.32
110.0	(2) 0.51" Hybrid	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(2) 0.78" 8 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(1) 1 1/4" Coax	Yes	0.00	0.000	1.55	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(4) 1.24" 4 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(6) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(1) 3" Conduit	Yes	0.00	0.000	2.38	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(6) 5/16" Coax	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
111.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	0.34
111.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	1.42
111.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.961	0.179	1.237	0.00	0.76
111.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	5.04
111.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	1.08
111.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.961	0.179	1.237	0.00	9.09
111.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	0.32

Pole :	302482			Code: ANSI/TIA-222 Rev G							11/12/2014 9:57:18 AM	
Location :	North Haven CT 1, CT			Struct Class : II							Page: 26	
Height :	150.0 (ft)			Exposure Category : B								
Base Dia :	37.37 (in)			Topographic Category : 1								
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)								
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

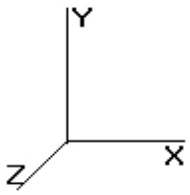
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

112.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	0.34
112.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	1.42
112.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.038	0.180	1.241	0.00	0.76
112.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	5.04
112.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	1.08
112.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.038	0.180	1.241	0.00	9.10
112.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	0.32
113.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	0.34
113.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	1.42
113.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.114	0.182	1.246	0.00	0.76
113.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	5.04
113.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	1.08
113.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.114	0.182	1.246	0.00	9.10
113.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	0.32
114.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	0.34
114.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	1.42
114.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.190	0.183	1.250	0.00	0.76
114.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	5.04
114.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	1.08
114.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.190	0.183	1.250	0.00	9.10
114.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	0.32
115.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	0.34
115.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	1.42
115.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.266	0.185	1.254	0.00	0.76
115.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	5.04
115.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	1.08
115.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.266	0.185	1.254	0.00	9.10
115.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	0.32
116.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	0.34
116.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	1.42
116.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.341	0.186	1.258	0.00	0.76
116.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	5.04
116.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	1.08
116.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.341	0.186	1.258	0.00	9.10
116.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	0.32
117.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	0.34
117.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	1.42
117.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.415	0.187	1.262	0.00	0.76
117.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	5.04
117.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	1.08
117.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.415	0.187	1.262	0.00	9.10
117.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	0.32
118.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	0.34
118.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	1.42
118.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.489	0.189	1.267	0.00	0.76
118.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	5.04
118.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	1.08
118.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.489	0.189	1.267	0.00	9.10
118.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	0.32
119.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	0.34
119.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	1.42
119.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.563	0.190	1.271	0.00	0.76
119.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	5.04
119.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	1.08
119.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.563	0.190	1.271	0.00	9.10
119.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	0.32
120.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	0.34

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:18 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 27	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

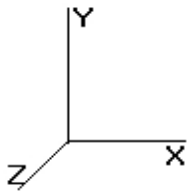


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

120.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	1.42
120.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.636	0.192	1.276	0.00	0.76
120.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	5.04
120.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	1.08
120.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.636	0.192	1.276	0.00	9.10
120.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	0.32
121.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	0.34
121.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	1.42
121.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.709	0.193	1.280	0.00	0.76
121.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	5.04
121.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	1.08
121.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.709	0.193	1.280	0.00	9.10
121.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	0.32
122.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	0.34
122.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	1.42
122.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.781	0.195	1.285	0.00	0.76
122.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	5.04
122.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	1.08
122.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.781	0.195	1.285	0.00	9.10
122.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	0.32
123.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	0.34
123.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	1.42
123.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.853	0.197	1.290	0.00	0.76
123.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	5.04
123.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	1.08
123.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.853	0.197	1.290	0.00	9.10
123.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	0.32
124.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	0.34
124.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	1.42
124.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.924	0.198	1.295	0.00	0.76
124.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	5.04
124.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	1.08
124.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.924	0.198	1.295	0.00	9.10
124.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	0.32
125.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	0.34
125.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	1.42
125.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.995	0.200	1.300	0.00	0.76
125.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	5.04
125.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	1.08
125.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.995	0.200	1.300	0.00	9.10
125.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	0.32
126.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	0.34
126.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	1.42
126.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.066	0.202	0.000	8.47	0.76
126.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	5.04
126.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	1.08
126.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.066	0.202	0.000	13.01	9.10
126.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	0.32
127.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	0.34
127.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	1.42
127.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.136	0.203	0.000	8.49	0.76
127.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	5.04
127.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	1.08
127.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.136	0.203	0.000	13.04	9.10
127.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	0.32
128.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	0.34
128.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	1.42

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:18 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	28
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

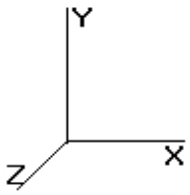
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

128.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.206	0.205	0.000	8.51	0.76
128.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	5.04
128.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	1.08
128.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.206	0.205	0.000	13.07	9.10
128.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	0.32
129.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	0.34
129.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	1.42
129.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.276	0.207	0.000	8.53	0.76
129.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	5.04
129.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	1.08
129.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.276	0.207	0.000	13.10	9.10
129.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	0.32
130.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	0.34
130.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	1.42
130.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.345	0.208	0.000	8.55	0.76
130.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	5.04
130.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	1.08
130.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.345	0.208	0.000	13.13	9.10
130.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	0.32
131.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	0.34
131.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	1.42
131.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.413	0.210	0.000	8.57	0.76
131.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	5.04
131.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	1.08
131.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.413	0.210	0.000	13.16	9.10
131.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	0.32
132.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	0.34
132.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	1.42
132.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.482	0.212	0.000	8.59	0.76
132.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	5.04
132.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	1.08
132.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.482	0.212	0.000	13.19	9.10
132.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	0.32
133.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	0.34
133.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	1.42
133.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.550	0.214	0.000	8.61	0.76
133.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	5.04
133.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	1.08
133.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.550	0.214	0.000	13.22	9.10
133.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	0.32
134.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	0.34
134.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	1.42
134.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.617	0.216	0.000	8.63	0.76
134.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	5.04
134.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	1.08
134.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.617	0.216	0.000	13.24	9.10
134.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	0.32
135.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	0.34
135.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	1.42
135.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.684	0.218	0.000	8.64	0.76
135.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	5.04
135.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	1.08
135.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.684	0.218	0.000	13.27	9.10
135.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	0.32
136.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	0.34
136.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	1.42
136.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.751	0.220	0.000	8.66	0.76

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:18 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	29
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



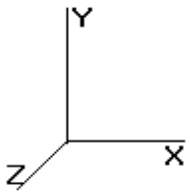
Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

136.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	5.04
136.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	1.08
136.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.751	0.220	0.000	13.30	9.10
136.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	0.32
137.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	0.34
137.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	1.42
137.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.818	0.222	0.000	8.68	0.76
137.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	5.04
137.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	1.08
137.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.818	0.222	0.000	13.33	9.10
137.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	0.32
138.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	0.34
138.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	1.42
138.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.884	0.224	0.000	8.70	0.76
138.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	5.04
138.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	1.08
138.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.884	0.224	0.000	13.36	9.10
138.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	0.32
139.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	0.34
139.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	1.42
139.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.950	0.226	0.000	8.72	0.76
139.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	5.04
139.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	1.08
139.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.950	0.226	0.000	13.38	9.10
139.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	0.32
140.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	0.34
140.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	1.42
140.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.015	0.228	0.000	8.73	0.76
140.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	5.04
140.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	1.08
140.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.015	0.228	0.000	13.41	9.10
140.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	0.32
141.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	0.34
141.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	1.42
141.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.081	0.230	0.000	8.75	0.76
141.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	5.04
141.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	1.08
141.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.081	0.230	0.000	13.44	9.10
141.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	0.32
142.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	0.34
142.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	1.42
142.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.145	0.232	0.000	8.77	0.76
142.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	5.04
142.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	1.08
142.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.145	0.232	0.000	13.47	9.10
142.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	0.32
143.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	0.34
143.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	1.42
143.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.210	0.235	0.000	8.79	0.76
143.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	5.04
143.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	1.08
143.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.210	0.235	0.000	13.49	9.10
143.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	0.32
144.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	0.34
144.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	1.42
144.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.274	0.237	0.000	8.80	0.76
144.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	5.04

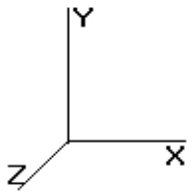


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

Wind Importance Factor : 1.00

144.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	1.08
144.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.274	0.237	0.000	13.52	9.10
144.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	0.32
145.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	0.34
145.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	1.42
145.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.338	0.239	0.000	8.82	0.76
145.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	5.04
145.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	1.08
145.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.338	0.239	0.000	13.55	9.10
145.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	0.32
146.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	0.34
146.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	1.42
146.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.402	0.242	0.000	8.84	0.76
146.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	5.04
146.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	1.08
146.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.402	0.242	0.000	13.57	9.10
146.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	0.32
147.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.465	0.096	0.000	0.00	0.34
147.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.465	0.096	0.000	0.00	1.42
147.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	32.465	0.096	0.000	0.00	0.76
147.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.465	0.096	0.000	0.00	5.04
148.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.528	0.097	0.000	0.00	0.34
148.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.528	0.097	0.000	0.00	1.42
148.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	32.528	0.097	0.000	0.00	0.76
148.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.528	0.097	0.000	0.00	5.04
149.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.590	0.098	0.000	0.00	0.34
149.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.590	0.098	0.000	0.00	1.42
149.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	32.590	0.098	0.000	0.00	0.76
149.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.590	0.098	0.000	0.00	5.04
150.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.653	0.099	0.000	0.00	0.34
150.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.653	0.099	0.000	0.00	1.42
150.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	32.653	0.099	0.000	0.00	0.76
150.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.653	0.099	0.000	0.00	5.04
										Totals:	3,670.32	2,574.94



Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

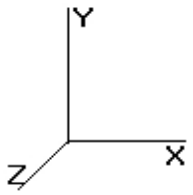
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.60

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
1.00	149.64	248.85	0.00	0.00
2.00	149.29	248.07	0.00	0.00
3.00	148.95	247.30	0.00	0.00
4.00	148.61	246.53	0.00	0.00
5.00	148.26	245.76	0.00	0.00
6.00	166.42	278.62	0.00	0.00
7.00	165.83	277.85	0.00	0.00
8.00	165.25	277.07	0.00	0.00
9.00	164.66	276.30	0.00	0.00
10.00	164.07	275.53	0.00	0.00
11.00	163.48	274.76	0.00	0.00
12.00	162.89	273.98	0.00	0.00
12.50	81.23	136.70	0.00	0.00
13.00	81.08	136.51	0.00	0.00
14.00	161.72	272.44	0.00	0.00
15.00	161.13	271.67	0.00	0.00
16.00	160.54	270.89	0.00	0.00
17.00	159.95	270.12	0.00	0.00
18.00	159.36	269.35	0.00	0.00
19.00	158.78	268.58	0.00	0.00
20.00	158.19	267.80	0.00	0.00
21.00	157.60	267.03	0.00	0.00
22.00	157.01	266.26	0.00	0.00
23.00	156.42	265.49	0.00	0.00
24.00	155.84	264.71	0.00	0.00
25.00	155.25	263.94	0.00	0.00
26.00	154.66	263.17	0.00	0.00
27.00	154.07	262.40	0.00	0.00
28.00	153.48	261.62	0.00	0.00
29.00	152.90	260.85	0.00	0.00
30.00	152.43	260.08	0.00	0.00
31.00	153.20	259.31	0.00	0.00
31.50	76.76	129.45	0.00	0.00
32.00	78.03	196.25	0.00	0.00
33.00	157.03	391.69	0.00	0.00
34.00	157.70	390.28	0.00	0.00
35.00	158.33	388.86	0.00	0.00
35.67	105.80	258.58	0.00	0.00
36.00	52.85	77.33	0.00	0.00
37.00	159.49	231.79	0.00	0.00
38.00	160.02	231.15	0.00	0.00
39.00	160.52	230.50	0.00	0.00
40.00	160.99	229.86	0.00	0.00
41.00	161.43	229.22	0.00	0.00
42.00	161.84	228.57	0.00	0.00
43.00	162.23	227.93	0.00	0.00
44.00	162.59	227.28	0.00	0.00
45.00	162.92	226.64	0.00	0.00
46.00	163.23	226.00	0.00	0.00

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:19 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 32**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		

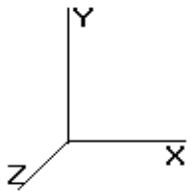


Load Case: **1.2D + 1.6W** **110.00 mph with No Ice** **36 Iterations**

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

47.00	163.52	225.35	0.00	0.00
48.00	163.78	224.71	0.00	0.00
49.00	164.03	224.07	0.00	0.00
50.00	164.25	223.42	0.00	0.00
51.00	164.45	222.78	0.00	0.00
52.00	164.63	222.14	0.00	0.00
53.00	164.79	221.49	0.00	0.00
54.00	164.93	220.85	0.00	0.00
55.00	165.06	220.20	0.00	0.00
56.00	165.16	219.56	0.00	0.00
57.00	165.25	218.92	0.00	0.00
58.00	165.32	218.27	0.00	0.00
59.00	165.38	217.63	0.00	0.00
60.00	165.42	216.99	0.00	0.00
61.00	165.44	216.34	0.00	0.00
62.00	165.45	215.70	0.00	0.00
63.00	165.44	215.05	0.00	0.00
64.00	165.45	214.41	0.00	0.00
65.00	165.45	213.77	0.00	0.00
66.00	165.43	213.12	0.00	0.00
67.00	165.41	212.48	0.00	0.00
68.00	165.36	211.84	0.00	0.00
69.00	165.31	211.19	0.00	0.00
70.00	165.24	210.55	0.00	0.00
70.00	0.06	0.07	0.00	0.00
71.00	167.50	299.23	0.00	0.00
72.00	167.48	298.17	0.00	0.00
73.00	167.38	297.01	0.00	0.00
73.50	83.62	148.17	0.00	0.00
74.00	83.48	94.03	0.00	0.00
75.00	167.15	187.80	0.00	0.00
76.00	167.01	187.28	0.00	0.00
77.00	166.87	186.77	0.00	0.00
78.00	166.71	186.25	0.00	0.00
79.00	166.54	185.74	0.00	0.00
80.00	166.36	185.22	0.00	0.00
81.00	166.17	184.71	0.00	0.00
82.00	165.97	184.19	0.00	0.00
83.00	165.76	183.68	0.00	0.00
84.00	165.54	183.16	0.00	0.00
85.00	165.31	182.65	0.00	0.00
86.00	165.07	182.13	0.00	0.00
86.50	82.37	90.87	0.00	0.00
87.00	82.31	90.75	0.00	0.00
88.00	164.55	181.10	0.00	0.00
89.00	164.28	180.59	0.00	0.00
90.00	164.00	180.07	0.00	0.00
91.00	163.71	179.56	0.00	0.00
92.00	163.41	179.04	0.00	0.00
93.00	163.11	178.53	0.00	0.00
94.00	162.79	178.01	0.00	0.00
95.00	162.46	177.50	0.00	0.00
95.33	54.01	59.03	0.00	0.00
96.00	108.02	73.41	0.00	0.00
97.00	161.79	109.67	0.00	0.00
98.00	161.44	109.16	0.00	0.00
99.00	161.08	108.64	0.00	0.00

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



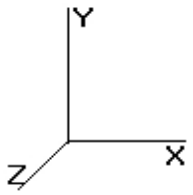
Load Case: **1.2D + 1.6W** — **110.00 mph with No Ice** — **36 Iterations**

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

Wind Importance Factor : 1.00

100.0		160.71	108.13	0.00	0.00
101.0		160.34	107.61	0.00	0.00
102.0		120.82	107.10	0.00	0.00
103.0		120.67	106.58	0.00	0.00
104.0		120.51	106.07	0.00	0.00
105.0		120.35	105.55	0.00	0.00
106.0		120.18	105.04	0.00	0.00
107.0		120.01	104.52	0.00	0.00
108.0		3,411.32	2,232.69	0.00	0.00
109.0		119.66	91.68	0.00	0.00
110.0		119.47	91.17	0.00	0.00
110.0		0.04	0.03	0.00	0.00
111.0		119.24	73.58	0.00	0.00
112.0		119.09	73.22	0.00	0.00
113.0		118.89	72.83	0.00	0.00
114.0		118.69	72.44	0.00	0.00
115.0		118.48	72.06	0.00	0.00
116.0		118.27	71.67	0.00	0.00
117.0		118.05	71.28	0.00	0.00
118.0		117.83	70.90	0.00	0.00
119.0		117.61	70.51	0.00	0.00
120.0		117.38	70.13	0.00	0.00
121.0		117.15	69.74	0.00	0.00
122.0		116.91	69.35	0.00	0.00
123.0		116.67	68.97	0.00	0.00
124.0		116.42	68.58	0.00	0.00
125.0		116.18	68.19	0.00	0.00
126.0		128.12	67.81	0.00	0.00
127.0		127.52	67.42	0.00	0.00
128.0		126.92	67.04	0.00	0.00
129.0		126.31	66.65	0.00	0.00
130.0		125.69	66.26	0.00	0.00
131.0		125.07	65.88	0.00	0.00
132.0		124.44	65.49	0.00	0.00
133.0		123.81	65.10	0.00	0.00
134.0		123.18	64.72	0.00	0.00
135.0		122.53	64.33	0.00	0.00
136.0		121.89	63.95	0.00	0.00
137.0		121.23	63.56	0.00	0.00
138.0		120.57	63.17	0.00	0.00
139.0		119.91	62.79	0.00	0.00
140.0		119.24	62.40	0.00	0.00
141.0		118.57	62.01	0.00	0.00
142.0		117.89	61.63	0.00	0.00
143.0		117.21	61.24	0.00	0.00
144.0		116.52	60.86	0.00	0.00
145.0		115.83	60.47	0.00	0.00
146.0		1,850.06	518.72	0.00	0.00
147.0		76.65	49.20	0.00	0.00
148.0		76.02	48.81	0.00	0.00
149.0		75.39	48.42	0.00	0.00
150.0		5,411.66	4,144.60	0.00	11,966.93
	Totals:	**32,420.38**	**33,436.11**	**0.00**	**11,966.93**

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:19 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 34**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Load Case: **1.2D + 1.6W** **110.00 mph with No Ice** **36 Iterations**

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

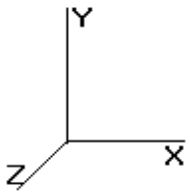
Dead Load Factor : 1.20

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	-33.41	-32.44	0.00	-3,124.21	0.00	3,124.21	3,133.39	1,566.70	4,775.40	2,358.39	0.00	0.00	0.838
1.00	-33.13	-32.33	0.00	-3,091.77	0.00	3,091.77	3,125.01	1,562.51	4,742.26	2,342.02	0.01	-0.07	0.833
2.00	-32.84	-32.22	0.00	-3,059.44	0.00	3,059.44	3,116.59	1,558.30	4,709.17	2,325.68	0.03	-0.14	0.829
3.00	-32.55	-32.11	0.00	-3,027.22	0.00	3,027.22	3,108.13	1,554.07	4,676.12	2,309.36	0.07	-0.21	0.824
4.00	-32.27	-32.00	0.00	-2,995.10	0.00	2,995.10	3,099.63	1,549.81	4,643.13	2,293.07	0.12	-0.28	0.819
5.00	-31.98	-31.89	0.00	-2,963.10	0.00	2,963.10	3,091.08	1,545.54	4,610.18	2,276.80	0.19	-0.35	0.815
6.00	-31.66	-31.77	0.00	-2,931.21	0.00	2,931.21	3,082.50	1,541.25	4,577.28	2,260.55	0.27	-0.43	0.810
7.00	-31.35	-31.64	0.00	-2,899.44	0.00	2,899.44	3,073.87	1,536.93	4,544.44	2,244.33	0.37	-0.50	0.805
8.00	-31.03	-31.51	0.00	-2,867.81	0.00	2,867.81	3,065.20	1,532.60	4,511.64	2,228.13	0.48	-0.57	0.800
9.00	-30.72	-31.38	0.00	-2,836.30	0.00	2,836.30	3,056.49	1,528.24	4,478.89	2,211.96	0.61	-0.64	0.795
10.00	-30.41	-31.25	0.00	-2,804.92	0.00	2,804.92	3,047.73	1,523.87	4,446.20	2,195.81	0.75	-0.71	0.791
11.00	-30.10	-31.12	0.00	-2,773.68	0.00	2,773.68	3,038.94	1,519.47	4,413.57	2,179.69	0.91	-0.78	0.786
12.00	-29.80	-30.98	0.00	-2,742.56	0.00	2,742.56	3,030.10	1,515.05	4,380.98	2,163.60	1.08	-0.85	0.781
12.50	-29.64	-30.91	0.00	-2,727.07	0.00	2,727.07	3,025.67	1,512.83	4,364.71	2,155.57	1.17	-0.89	0.779
12.50	-29.64	-30.91	0.00	-2,727.07	0.00	2,727.07	3,025.67	1,512.83	4,364.71	2,155.57	1.17	-0.89	0.779
13.00	-29.48	-30.86	0.00	-2,711.61	0.00	2,711.61	3,021.22	1,510.61	4,348.46	2,147.54	1.26	-0.92	0.776
14.00	-29.17	-30.73	0.00	-2,680.75	0.00	2,680.75	3,012.30	1,506.15	4,315.98	2,131.50	1.47	-0.99	0.771
15.00	-28.86	-30.60	0.00	-2,650.03	0.00	2,650.03	3,003.34	1,501.67	4,283.57	2,115.49	1.68	-1.06	0.766
16.00	-28.56	-30.47	0.00	-2,619.43	0.00	2,619.43	2,994.34	1,497.17	4,251.21	2,099.51	1.91	-1.14	0.762
17.00	-28.25	-30.34	0.00	-2,588.96	0.00	2,588.96	2,985.30	1,492.65	4,218.92	2,083.56	2.16	-1.21	0.757
18.00	-27.95	-30.21	0.00	-2,558.63	0.00	2,558.63	2,976.21	1,488.11	4,186.68	2,067.64	2.42	-1.28	0.752
19.00	-27.65	-30.08	0.00	-2,528.42	0.00	2,528.42	2,967.08	1,483.54	4,154.50	2,051.75	2.70	-1.35	0.747
20.00	-27.35	-29.94	0.00	-2,498.34	0.00	2,498.34	2,957.91	1,478.96	4,122.38	2,035.89	2.99	-1.42	0.742
21.00	-27.05	-29.81	0.00	-2,468.40	0.00	2,468.40	2,948.70	1,474.35	4,090.33	2,020.06	3.29	-1.49	0.737
22.00	-26.75	-29.68	0.00	-2,438.59	0.00	2,438.59	2,939.45	1,469.73	4,058.33	2,004.26	3.61	-1.56	0.732
23.00	-26.45	-29.55	0.00	-2,408.91	0.00	2,408.91	2,930.16	1,465.08	4,026.41	1,988.49	3.95	-1.63	0.727
24.00	-26.16	-29.42	0.00	-2,379.35	0.00	2,379.35	2,920.82	1,460.41	3,994.54	1,972.75	4.30	-1.70	0.722
25.00	-25.86	-29.29	0.00	-2,349.93	0.00	2,349.93	2,911.45	1,455.72	3,962.74	1,957.05	4.66	-1.77	0.717
26.00	-25.57	-29.16	0.00	-2,320.65	0.00	2,320.65	2,902.03	1,451.01	3,931.01	1,941.38	5.04	-1.84	0.712
27.00	-25.27	-29.03	0.00	-2,291.49	0.00	2,291.49	2,892.57	1,446.28	3,899.34	1,925.74	5.43	-1.91	0.707
28.00	-24.98	-28.89	0.00	-2,262.46	0.00	2,262.46	2,883.07	1,441.53	3,867.74	1,910.13	5.84	-1.98	0.701
29.00	-24.69	-28.76	0.00	-2,233.57	0.00	2,233.57	2,873.52	1,436.76	3,836.21	1,894.56	6.26	-2.05	0.696
30.00	-24.40	-28.63	0.00	-2,204.81	0.00	2,204.81	2,863.94	1,431.97	3,804.75	1,879.02	6.70	-2.12	0.691
31.00	-24.12	-28.49	0.00	-2,176.18	0.00	2,176.18	2,854.31	1,427.16	3,773.36	1,863.52	7.15	-2.19	0.686
31.50	-23.98	-28.42	0.00	-2,161.92	0.00	2,161.92	2,849.48	1,424.74	3,757.68	1,855.78	7.39	-2.23	0.683
32.00	-23.76	-28.36	0.00	-2,147.72	0.00	2,147.72	2,844.65	1,422.32	3,742.04	1,848.05	7.62	-2.26	0.672
33.00	-23.34	-28.21	0.00	-2,119.36	0.00	2,119.36	2,833.03	1,416.51	3,708.29	1,831.38	8.10	-2.33	0.667
34.00	-22.93	-28.07	0.00	-2,091.15	0.00	2,091.15	2,819.08	1,409.54	3,671.66	1,813.30	8.60	-2.40	0.663
35.00	-22.52	-27.92	0.00	-2,063.08	0.00	2,063.08	2,805.14	1,402.57	3,635.22	1,795.30	9.11	-2.47	0.658
35.67	-22.25	-27.81	0.00	-2,044.46	0.00	2,044.46	2,230.91	1,115.46	2,950.86	1,457.32	9.46	-2.52	0.761
36.00	-22.15	-27.77	0.00	-2,035.20	0.00	2,035.20	2,228.70	1,114.35	2,943.10	1,453.48	9.64	-2.54	0.759
37.00	-21.89	-27.63	0.00	-2,007.43	0.00	2,007.43	2,222.04	1,111.02	2,919.81	1,441.99	10.18	-2.61	0.752
38.00	-21.63	-27.49	0.00	-1,979.79	0.00	1,979.79	2,215.33	1,107.67	2,896.56	1,430.50	10.73	-2.68	0.746
39.00	-21.37	-27.35	0.00	-1,952.30	0.00	1,952.30	2,208.58	1,104.29	2,873.35	1,419.04	11.30	-2.76	0.739
40.00	-21.12	-27.20	0.00	-1,924.96	0.00	1,924.96	2,201.80	1,100.90	2,850.16	1,407.59	11.89	-2.83	0.732
41.00	-20.86	-27.05	0.00	-1,897.76	0.00	1,897.76	2,194.97	1,097.48	2,827.01	1,396.16	12.49	-2.90	0.725
42.00	-20.61	-26.91	0.00	-1,870.70	0.00	1,870.70	2,188.09	1,094.05	2,803.90	1,384.74	13.10	-2.97	0.719
43.00	-20.35	-26.76	0.00	-1,843.80	0.00	1,843.80	2,181.18	1,090.59	2,780.83	1,373.35	13.73	-3.05	0.712
44.00	-20.10	-26.61	0.00	-1,817.04	0.00	1,817.04	2,174.23	1,087.11	2,757.79	1,361.97	14.38	-3.12	0.705
45.00	-19.85	-26.46	0.00	-1,790.43	0.00	1,790.43	2,167.23	1,083.61	2,734.79	1,350.61	15.04	-3.19	0.698
46.00	-19.60	-26.31	0.00	-1,763.97	0.00	1,763.97	2,160.19	1,080.10	2,711.83	1,339.27	15.72	-3.26	0.691

Pole :	302482				Code: ANSI/TIA-222 Rev G								11/12/2014 9:57:19 AM	
Location :	North Haven CT 1, CT				Struct Class : II								Page: 35	
Height :	150.0 (ft)				Exposure Category : B									
Base Dia :	37.37 (in)				Topographic Category : 1									
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)									
Shape :	12 Sides													
Taper :	0.156666 (in/ft)													

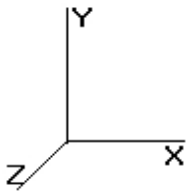


Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

47.00	-19.35	-26.16	0.00	-1,737.67	0.00	1,737.67	2,153.11	1,076.56	2,688.91	1,327.95	16.41	-3.33	0.685
48.00	-19.11	-26.00	0.00	-1,711.51	0.00	1,711.51	2,145.99	1,073.00	2,666.03	1,316.65	17.11	-3.40	0.678
49.00	-18.86	-25.85	0.00	-1,685.51	0.00	1,685.51	2,138.83	1,069.41	2,643.19	1,305.37	17.83	-3.48	0.671
50.00	-18.62	-25.69	0.00	-1,659.66	0.00	1,659.66	2,131.62	1,065.81	2,620.39	1,294.11	18.57	-3.55	0.664
51.00	-18.37	-25.54	0.00	-1,633.97	0.00	1,633.97	2,124.38	1,062.19	2,597.64	1,282.88	19.32	-3.62	0.657
52.00	-18.13	-25.38	0.00	-1,608.43	0.00	1,608.43	2,117.09	1,058.55	2,574.93	1,271.66	20.09	-3.69	0.650
53.00	-17.89	-25.22	0.00	-1,583.05	0.00	1,583.05	2,109.76	1,054.88	2,552.26	1,260.47	20.86	-3.76	0.644
54.00	-17.65	-25.07	0.00	-1,557.82	0.00	1,557.82	2,102.39	1,051.20	2,529.64	1,249.30	21.66	-3.83	0.637
55.00	-17.41	-24.91	0.00	-1,532.76	0.00	1,532.76	2,094.98	1,047.49	2,507.07	1,238.15	22.47	-3.90	0.630
56.00	-17.18	-24.75	0.00	-1,507.85	0.00	1,507.85	2,087.53	1,043.76	2,484.55	1,227.02	23.29	-3.96	0.623
57.00	-16.94	-24.59	0.00	-1,483.10	0.00	1,483.10	2,080.03	1,040.02	2,462.07	1,215.92	24.13	-4.03	0.616
58.00	-16.70	-24.43	0.00	-1,458.51	0.00	1,458.51	2,072.49	1,036.25	2,439.64	1,204.85	24.98	-4.10	0.609
59.00	-16.47	-24.27	0.00	-1,434.08	0.00	1,434.08	2,064.92	1,032.46	2,417.26	1,193.79	25.85	-4.17	0.602
60.00	-16.24	-24.11	0.00	-1,409.81	0.00	1,409.81	2,057.30	1,028.65	2,394.93	1,182.77	26.73	-4.24	0.595
61.00	-16.01	-23.94	0.00	-1,385.71	0.00	1,385.71	2,049.63	1,024.82	2,372.65	1,171.76	27.62	-4.31	0.588
62.00	-15.77	-23.78	0.00	-1,361.76	0.00	1,361.76	2,041.93	1,020.97	2,350.43	1,160.79	28.53	-4.37	0.581
63.00	-15.55	-23.62	0.00	-1,337.98	0.00	1,337.98	2,034.19	1,017.09	2,328.25	1,149.84	29.45	-4.44	0.574
64.00	-15.32	-23.45	0.00	-1,314.37	0.00	1,314.37	2,026.40	1,013.20	2,306.13	1,138.91	30.39	-4.51	0.567
65.00	-15.09	-23.29	0.00	-1,290.91	0.00	1,290.91	2,018.57	1,009.29	2,284.07	1,128.02	31.34	-4.57	0.560
66.00	-14.86	-23.13	0.00	-1,267.62	0.00	1,267.62	2,010.70	1,005.35	2,262.06	1,117.15	32.30	-4.64	0.553
67.00	-14.64	-22.96	0.00	-1,244.50	0.00	1,244.50	2,002.79	1,001.40	2,240.11	1,106.30	33.28	-4.71	0.546
68.00	-14.42	-22.79	0.00	-1,221.54	0.00	1,221.54	1,994.84	997.42	2,218.21	1,095.49	34.27	-4.77	0.539
69.00	-14.19	-22.63	0.00	-1,198.74	0.00	1,198.74	1,986.85	993.42	2,196.37	1,084.71	35.28	-4.84	0.532
70.00	-13.99	-22.45	0.00	-1,176.12	0.00	1,176.12	1,978.81	989.40	2,174.59	1,073.95	36.30	-4.90	0.525
70.00	-13.97	-22.46	0.00	-1,176.11	0.00	1,176.11	1,978.81	989.40	2,174.58	1,073.95	36.30	-4.90	0.525
71.00	-13.67	-22.28	0.00	-1,153.66	0.00	1,153.66	1,970.29	985.14	2,152.38	1,062.98	37.33	-4.96	0.510
72.00	-13.36	-22.10	0.00	-1,131.37	0.00	1,131.37	1,958.67	979.33	2,126.92	1,050.41	38.38	-5.03	0.504
73.00	-13.06	-21.92	0.00	-1,109.27	0.00	1,109.27	1,947.05	973.52	2,101.61	1,037.91	39.44	-5.09	0.498
73.50	-12.91	-21.83	0.00	-1,098.30	0.00	1,098.30	1,462.56	731.28	1,611.85	796.03	39.97	-5.12	0.587
74.00	-12.80	-21.75	0.00	-1,087.39	0.00	1,087.39	1,460.05	730.02	1,604.32	792.31	40.51	-5.15	0.582
75.00	-12.61	-21.58	0.00	-1,065.64	0.00	1,065.64	1,454.98	727.49	1,589.27	784.88	41.59	-5.22	0.573
76.00	-12.41	-21.41	0.00	-1,044.05	0.00	1,044.05	1,449.87	724.94	1,574.24	777.46	42.69	-5.28	0.564
77.00	-12.22	-21.24	0.00	-1,022.64	0.00	1,022.64	1,444.73	722.36	1,559.24	770.05	43.80	-5.35	0.555
78.00	-12.02	-21.07	0.00	-1,001.40	0.00	1,001.40	1,439.54	719.77	1,544.25	762.65	44.93	-5.41	0.546
79.00	-11.83	-20.90	0.00	-980.32	0.00	980.32	1,434.31	717.15	1,529.29	755.26	46.07	-5.48	0.537
80.00	-11.64	-20.73	0.00	-959.42	0.00	959.42	1,429.03	714.52	1,514.36	747.88	47.22	-5.54	0.528
81.00	-11.45	-20.56	0.00	-938.68	0.00	938.68	1,423.72	711.86	1,499.45	740.52	48.39	-5.60	0.520
82.00	-11.26	-20.39	0.00	-918.12	0.00	918.12	1,418.36	709.18	1,484.56	733.17	49.57	-5.67	0.511
83.00	-11.07	-20.22	0.00	-897.73	0.00	897.73	1,412.96	706.48	1,469.70	725.83	50.76	-5.73	0.502
84.00	-10.88	-20.05	0.00	-877.51	0.00	877.51	1,407.53	703.76	1,454.87	718.51	51.97	-5.79	0.493
85.00	-10.70	-19.88	0.00	-857.46	0.00	857.46	1,402.05	701.02	1,440.07	711.20	53.18	-5.85	0.484
86.00	-10.52	-19.70	0.00	-837.58	0.00	837.58	1,396.52	698.26	1,425.29	703.90	54.41	-5.91	0.475
86.50	-10.43	-19.62	0.00	-827.73	0.00	827.73	1,393.75	696.87	1,417.92	700.26	55.03	-5.94	0.471
86.50	-10.43	-19.62	0.00	-827.73	0.00	827.73	1,393.75	696.87	1,417.92	700.26	55.03	-5.94	0.471
87.00	-10.33	-19.53	0.00	-817.92	0.00	817.92	1,390.96	695.48	1,410.55	696.62	55.66	-5.97	0.466
88.00	-10.15	-19.36	0.00	-798.38	0.00	798.38	1,385.35	692.68	1,395.84	689.35	56.91	-6.03	0.457
89.00	-9.97	-19.19	0.00	-779.02	0.00	779.02	1,379.71	689.85	1,381.15	682.10	58.18	-6.09	0.449
90.00	-9.78	-19.02	0.00	-759.83	0.00	759.83	1,374.02	687.01	1,366.50	674.86	59.46	-6.15	0.440
91.00	-9.61	-18.84	0.00	-740.82	0.00	740.82	1,368.29	684.14	1,351.89	667.65	60.75	-6.20	0.431
92.00	-9.43	-18.67	0.00	-721.97	0.00	721.97	1,362.52	681.26	1,337.30	660.44	62.05	-6.26	0.422
93.00	-9.25	-18.50	0.00	-703.30	0.00	703.30	1,356.70	678.35	1,322.75	653.26	63.37	-6.31	0.413
94.00	-9.07	-18.33	0.00	-684.80	0.00	684.80	1,350.85	675.42	1,308.24	646.09	64.69	-6.37	0.405
95.00	-8.90	-18.15	0.00	-666.47	0.00	666.47	1,344.95	672.48	1,293.77	638.94	66.03	-6.42	0.396
95.33	-8.84	-18.09	0.00	-660.43	0.00	660.43	1,342.98	671.49	1,288.95	636.56	66.48	-6.44	0.393
95.33	-8.84	-18.09	0.00	-660.43	0.00	660.43	1,342.98	671.49	1,288.95	636.56	66.48	-6.44	1.045
96.00	-8.75	-17.99	0.00	-648.36	0.00	648.36	1,339.02	669.51	1,279.33	631.81	67.38	-6.48	1.033
97.00	-8.62	-17.84	0.00	-630.37	0.00	630.37	1,333.04	666.52	1,264.93	624.70	68.75	-6.62	1.016

Pole :	302482	Code: ANSI/TIA-222 Rev G	
Location :	North Haven CT 1, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



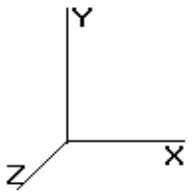
Load Case: 1.2D + 1.6W — 110.00 mph with No Ice — 36 Iterations

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

Wind Importance Factor : 1.00

98.00	-8.49	-17.69	0.00	-612.53	0.00	612.53	1,327.01	663.51	1,250.56	617.61	70.15	-6.76	0.999
99.00	-8.36	-17.54	0.00	-594.84	0.00	594.84	1,320.95	660.48	1,236.24	610.53	71.58	-6.90	0.981
100.00	-8.23	-17.38	0.00	-577.30	0.00	577.30	1,314.85	657.42	1,221.96	603.48	73.03	-7.04	0.964
101.00	-8.10	-17.23	0.00	-559.92	0.00	559.92	1,308.70	654.35	1,207.72	596.45	74.52	-7.17	0.946
102.00	-7.97	-17.12	0.00	-542.69	0.00	542.69	1,302.51	651.26	1,193.52	589.43	76.03	-7.31	0.928
103.00	-7.84	-17.00	0.00	-525.57	0.00	525.57	1,296.29	648.14	1,179.36	582.44	77.57	-7.44	0.909
104.00	-7.71	-16.88	0.00	-508.57	0.00	508.57	1,290.02	645.01	1,165.25	575.47	79.14	-7.58	0.890
105.00	-7.58	-16.77	0.00	-491.69	0.00	491.69	1,283.70	641.85	1,151.18	568.52	80.74	-7.71	0.871
106.00	-7.46	-16.65	0.00	-474.92	0.00	474.92	1,277.35	638.67	1,137.16	561.60	82.36	-7.84	0.852
107.00	-7.33	-16.54	0.00	-458.27	0.00	458.27	1,270.95	635.48	1,123.18	554.70	84.01	-7.96	0.833
108.00	-5.57	-12.86	0.00	-441.74	0.00	441.74	1,264.52	632.26	1,109.25	547.82	85.69	-8.09	0.811
109.00	-5.47	-12.74	0.00	-428.88	0.00	428.88	1,256.36	628.18	1,093.90	540.24	87.39	-8.21	0.799
110.00	-5.38	-12.61	0.00	-416.14	0.00	416.14	1,247.06	623.53	1,077.68	532.23	89.12	-8.34	0.787
110.00	-5.37	-12.62	0.00	-416.14	0.00	416.14	1,247.06	623.53	1,077.67	532.22	89.12	-8.34	0.787
110.00	-5.37	-12.62	0.00	-416.14	0.00	416.14	846.51	423.26	735.89	363.43	89.12	-8.34	1.152
111.00	-5.28	-12.50	0.00	-403.52	0.00	403.52	843.00	421.50	727.35	359.21	90.87	-8.46	1.131
112.00	-5.19	-12.39	0.00	-391.02	0.00	391.02	839.44	419.72	718.80	354.99	92.66	-8.62	1.109
113.00	-5.11	-12.27	0.00	-378.63	0.00	378.63	835.84	417.92	710.28	350.78	94.47	-8.78	1.086
114.00	-5.02	-12.16	0.00	-366.36	0.00	366.36	832.20	416.10	701.76	346.57	96.32	-8.93	1.064
115.00	-4.94	-12.04	0.00	-354.20	0.00	354.20	828.52	414.26	693.25	342.37	98.20	-9.09	1.041
116.00	-4.85	-11.93	0.00	-342.15	0.00	342.15	824.80	412.40	684.76	338.18	100.11	-9.24	1.018
117.00	-4.77	-11.81	0.00	-330.22	0.00	330.22	821.03	410.52	676.28	333.99	102.06	-9.40	0.995
118.00	-4.69	-11.70	0.00	-318.41	0.00	318.41	817.23	408.61	667.82	329.81	104.03	-9.55	0.972
119.00	-4.61	-11.58	0.00	-306.71	0.00	306.71	813.38	406.69	659.38	325.64	106.04	-9.69	0.948
120.00	-4.53	-11.47	0.00	-295.13	0.00	295.13	809.49	404.75	650.95	321.48	108.07	-9.84	0.924
121.00	-4.45	-11.35	0.00	-283.66	0.00	283.66	805.56	402.78	642.54	317.32	110.14	-9.98	0.900
122.00	-4.38	-11.23	0.00	-272.32	0.00	272.32	801.59	400.79	634.14	313.18	112.24	-10.12	0.876
123.00	-4.30	-11.12	0.00	-261.08	0.00	261.08	797.57	398.79	625.77	309.04	114.36	-10.26	0.851
124.00	-4.23	-11.00	0.00	-249.96	0.00	249.96	793.52	396.76	617.41	304.92	116.51	-10.40	0.826
125.00	-4.16	-10.88	0.00	-238.96	0.00	238.96	789.42	394.71	609.08	300.80	118.70	-10.53	0.800
126.00	-4.09	-10.75	0.00	-228.08	0.00	228.08	785.28	392.64	600.77	296.70	120.90	-10.67	0.775
127.00	-4.03	-10.63	0.00	-217.33	0.00	217.33	781.10	390.55	592.48	292.60	123.14	-10.79	0.749
128.00	-3.96	-10.50	0.00	-206.70	0.00	206.70	776.88	388.44	584.21	288.52	125.40	-10.92	0.722
129.00	-3.90	-10.37	0.00	-196.21	0.00	196.21	772.61	386.31	575.97	284.45	127.69	-11.04	0.696
130.00	-3.84	-10.24	0.00	-185.84	0.00	185.84	768.31	384.15	567.75	280.39	130.00	-11.16	0.668
131.00	-3.78	-10.11	0.00	-175.60	0.00	175.60	763.96	381.98	559.56	276.35	132.33	-11.28	0.641
132.00	-3.72	-9.98	0.00	-165.49	0.00	165.49	759.57	379.79	551.40	272.31	134.69	-11.39	0.613
133.00	-3.66	-9.86	0.00	-155.50	0.00	155.50	755.14	377.57	543.26	268.29	137.07	-11.50	0.585
134.00	-3.61	-9.73	0.00	-145.65	0.00	145.65	750.67	375.34	535.15	264.29	139.48	-11.60	0.557
135.00	-3.55	-9.60	0.00	-135.92	0.00	135.92	746.16	373.08	527.07	260.30	141.90	-11.70	0.528
136.00	-3.50	-9.48	0.00	-126.31	0.00	126.31	741.60	370.80	519.02	256.32	144.34	-11.80	0.498
137.00	-3.45	-9.35	0.00	-116.84	0.00	116.84	737.01	368.50	511.00	252.36	146.81	-11.89	0.468
138.00	-3.39	-9.22	0.00	-107.49	0.00	107.49	732.37	366.18	503.01	248.42	149.29	-11.97	0.438
139.00	-3.35	-9.10	0.00	-98.27	0.00	98.27	727.69	363.84	495.05	244.49	151.79	-12.06	0.407
140.00	-3.30	-8.97	0.00	-89.17	0.00	89.17	722.97	361.48	487.13	240.57	154.30	-12.13	0.376
141.00	-3.25	-8.85	0.00	-80.19	0.00	80.19	718.21	359.10	479.24	236.68	156.83	-12.20	0.344
142.00	-3.21	-8.72	0.00	-71.35	0.00	71.35	713.40	356.70	471.38	232.80	159.38	-12.27	0.312
143.00	-3.16	-8.60	0.00	-62.62	0.00	62.62	708.00	354.00	463.20	228.76	161.93	-12.33	0.279
144.00	-3.12	-8.47	0.00	-54.03	0.00	54.03	701.03	350.51	454.07	224.25	164.50	-12.38	0.246
145.00	-3.08	-8.35	0.00	-45.55	0.00	45.55	694.06	347.03	445.03	219.78	167.08	-12.43	0.212
146.00	-2.97	-6.43	0.00	-37.20	0.00	37.20	687.08	343.54	436.08	215.36	169.67	-12.47	0.177
147.00	-2.94	-6.35	0.00	-30.77	0.00	30.77	680.11	340.06	427.22	210.99	172.26	-12.50	0.150
148.00	-2.90	-6.27	0.00	-24.42	0.00	24.42	673.14	336.57	418.46	206.66	174.87	-12.53	0.123
149.00	-2.87	-6.18	0.00	-18.15	0.00	18.15	666.17	333.08	409.78	202.37	177.47	-12.55	0.094
150.00	0.00	-5.41	0.00	-11.97	0.00	11.97	659.20	329.60	401.19	198.13	180.08	-12.57	0.061

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:19 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 37
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		

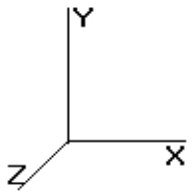


Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

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	0.70	20.599	22.65	296.75	1.000		0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.70	20.599	22.65	295.51	1.000	*	0.000	1.00	3.218	3.22	116.7	0.0	203.3
2.00		1.00	0.70	20.599	22.65	294.26	1.000	*	0.000	1.00	3.204	3.20	116.2	0.0	202.8
3.00		1.00	0.70	20.599	22.65	293.02	1.000	*	0.000	1.00	3.191	3.19	115.7	0.0	202.2
4.00		1.00	0.70	20.599	22.65	291.77	1.000	*	0.000	1.00	3.177	3.18	115.2	0.0	201.6
5.00		1.00	0.70	20.599	22.65	290.53	1.000	*	0.000	1.00	3.164	3.16	114.7	0.0	201.0
6.00		1.00	0.70	20.599	22.65	289.29	1.200	*	0.000	1.00	3.150	3.78	137.0	0.0	200.4
7.00		1.00	0.70	20.599	22.65	288.04	1.200	*	0.000	1.00	3.137	3.76	136.5	0.0	199.9
8.00		1.00	0.70	20.599	22.65	286.80	1.200	*	0.000	1.00	3.123	3.75	135.9	0.0	199.3
9.00		1.00	0.70	20.599	22.65	285.56	1.200	*	0.000	1.00	3.110	3.73	135.3	0.0	198.7
10.00		1.00	0.70	20.599	22.65	284.31	1.200	*	0.000	1.00	3.096	3.72	134.7	0.0	198.1
11.00		1.00	0.70	20.599	22.65	283.07	1.200	*	0.000	1.00	3.083	3.70	134.1	0.0	197.5
12.00		1.00	0.70	20.599	22.65	281.82	1.200	*	0.000	1.00	3.069	3.68	133.5	0.0	197.0
12.50	Reinf. Top Reinf Bottom	1.00	0.70	20.599	22.65	281.20	1.200	*	0.000	0.50	1.529	1.84	66.5	0.0	98.3
13.00		1.00	0.70	20.599	22.65	280.58	1.200	*	0.000	0.50	1.526	1.83	66.4	0.0	98.1
14.00		1.00	0.70	20.599	22.65	279.34	1.200	*	0.000	1.00	3.042	3.65	132.3	0.0	195.8
15.00		1.00	0.70	20.599	22.65	278.09	1.200	*	0.000	1.00	3.028	3.63	131.8	0.0	195.2
16.00		1.00	0.70	20.599	22.65	276.85	1.200	*	0.000	1.00	3.015	3.62	131.2	0.0	194.6
17.00		1.00	0.70	20.599	22.65	275.60	1.200	*	0.000	1.00	3.001	3.60	130.6	0.0	194.1
18.00		1.00	0.70	20.599	22.65	274.36	1.200	*	0.000	1.00	2.988	3.59	130.0	0.0	193.5
19.00		1.00	0.70	20.599	22.65	273.12	1.200	*	0.000	1.00	2.974	3.57	129.4	0.0	192.9
20.00		1.00	0.70	20.599	22.65	271.87	1.200	*	0.000	1.00	2.961	3.55	128.8	0.0	192.3
21.00		1.00	0.70	20.599	22.65	270.63	1.200	*	0.000	1.00	2.947	3.54	128.2	0.0	191.7
22.00		1.00	0.70	20.599	22.65	269.38	1.200	*	0.000	1.00	2.934	3.52	127.6	0.0	191.2
23.00		1.00	0.70	20.599	22.65	268.14	1.200	*	0.000	1.00	2.920	3.50	127.1	0.0	190.6
24.00		1.00	0.70	20.599	22.65	266.90	1.200	*	0.000	1.00	2.907	3.49	126.5	0.0	190.0
25.00		1.00	0.70	20.599	22.65	265.65	1.200	*	0.000	1.00	2.893	3.47	125.9	0.0	189.4
26.00		1.00	0.70	20.599	22.65	264.41	1.200	*	0.000	1.00	2.880	3.46	125.3	0.0	188.9
27.00		1.00	0.70	20.599	22.65	263.16	1.200	*	0.000	1.00	2.866	3.44	124.7	0.0	188.3
28.00		1.00	0.70	20.599	22.65	261.92	1.200	*	0.000	1.00	2.853	3.42	124.1	0.0	187.7
29.00		1.00	0.70	20.599	22.65	260.68	1.200	*	0.000	1.00	2.839	3.41	123.5	0.0	187.1
30.00		1.00	0.70	20.616	22.67	259.54	1.200	*	0.000	1.00	2.826	3.39	123.0	0.0	186.5
31.00		1.00	0.70	20.810	22.89	259.51	1.200	*	0.000	1.00	2.812	3.37	123.6	0.0	186.0
31.50	Bot - Section 2	1.00	0.71	20.906	22.99	259.48	1.200	*	0.000	0.50	1.402	1.68	61.9	0.0	92.8
32.00		1.00	0.71	21.000	23.10	259.43	1.200	*	0.000	0.50	1.424	1.71	63.1	0.0	142.9
33.00		1.00	0.72	21.186	23.30	259.32	1.200	*	0.000	1.00	2.839	3.41	127.0	0.0	285.2
34.00		1.00	0.72	21.367	23.50	259.16	1.200	*	0.000	1.00	2.826	3.39	127.5	0.0	284.2
35.00		1.00	0.73	21.545	23.69	258.96	1.200	*	0.000	1.00	2.812	3.37	128.0	0.0	283.1
35.67	Top - Section 1	1.00	0.73	21.661	23.82	258.81	1.200	*	0.000	0.67	1.868	2.24	85.5	0.0	188.3
36.00		1.00	0.73	21.719	23.89	263.82	1.200	*	0.000	0.33	0.930	1.12	42.7	0.0	55.2
37.00		1.00	0.74	21.890	24.07	263.58	1.200	*	0.000	1.00	2.785	3.34	128.8	0.0	165.3
38.00		1.00	0.75	22.057	24.26	263.29	1.200	*	0.000	1.00	2.772	3.33	129.1	0.0	164.8
39.00		1.00	0.75	22.221	24.44	262.98	1.200	*	0.000	1.00	2.758	3.31	129.4	0.0	164.4
40.00		1.00	0.76	22.383	24.62	262.64	1.200	*	0.000	1.00	2.744	3.29	129.7	0.0	163.9
41.00		1.00	0.76	22.541	24.79	262.26	1.200	*	0.000	1.00	2.731	3.28	130.0	0.0	163.4
42.00		1.00	0.77	22.697	24.96	261.86	1.200	*	0.000	1.00	2.717	3.26	130.3	0.0	162.9
43.00		1.00	0.77	22.850	25.13	261.43	1.200	*	0.000	1.00	2.704	3.24	130.5	0.0	162.4
44.00		1.00	0.78	23.000	25.30	260.98	1.200	*	0.000	1.00	2.690	3.23	130.7	0.0	161.9
45.00		1.00	0.78	23.149	25.46	260.50	1.200	*	0.000	1.00	2.677	3.21	130.9	0.0	161.5
46.00		1.00	0.79	23.294	25.62	260.00	1.200	*	0.000	1.00	2.663	3.20	131.0	0.0	161.0
47.00		1.00	0.79	23.438	25.78	259.47	1.200	*	0.000	1.00	2.650	3.18	131.2	0.0	160.5

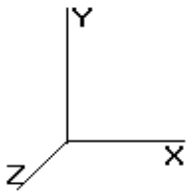


Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

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

48.00		1.00	0.80	23.579	25.93	258.92	1.200	*	0.000	1.00	2.636	3.16	131.3	0.0	160.0
49.00		1.00	0.80	23.719	26.09	258.35	1.200	*	0.000	1.00	2.623	3.15	131.4	0.0	159.5
50.00		1.00	0.81	23.856	26.24	257.76	1.200	*	0.000	1.00	2.609	3.13	131.5	0.0	159.0
51.00		1.00	0.81	23.991	26.39	257.15	1.200	*	0.000	1.00	2.596	3.11	131.5	0.0	158.6
52.00		1.00	0.82	24.125	26.53	256.51	1.200	*	0.000	1.00	2.582	3.10	131.6	0.0	158.1
53.00		1.00	0.82	24.257	26.68	255.86	1.200	*	0.000	1.00	2.569	3.08	131.6	0.0	157.6
54.00		1.00	0.82	24.386	26.82	255.19	1.200	*	0.000	1.00	2.555	3.07	131.6	0.0	157.1
55.00		1.00	0.83	24.515	26.96	254.51	1.200	*	0.000	1.00	2.542	3.05	131.6	0.0	156.6
56.00		1.00	0.83	24.641	27.10	253.80	1.200	*	0.000	1.00	2.528	3.03	131.6	0.0	156.1
57.00		1.00	0.84	24.766	27.24	253.08	1.200	*	0.000	1.00	2.515	3.02	131.5	0.0	155.7
58.00		1.00	0.84	24.889	27.37	252.34	1.200	*	0.000	1.00	2.501	3.00	131.5	0.0	155.2
59.00		1.00	0.85	25.011	27.51	251.59	1.200	*	0.000	1.00	2.488	2.99	131.4	0.0	154.7
60.00		1.00	0.85	25.132	27.64	250.82	1.200	*	0.000	1.00	2.474	2.97	131.3	0.0	154.2
61.00		1.00	0.85	25.251	27.77	250.04	1.200	*	0.000	1.00	2.461	2.95	131.2	0.0	153.7
62.00		1.00	0.86	25.368	27.90	249.24	1.200	*	0.000	1.00	2.447	2.94	131.1	0.0	153.2
63.00		1.00	0.86	25.485	28.03	248.42	1.200	*	0.000	1.00	2.434	2.92	131.0	0.0	152.8
64.00		1.00	0.87	25.599	28.15	247.60	1.200	*	0.000	1.00	2.420	2.90	130.8	0.0	152.3
65.00		1.00	0.87	25.713	28.28	246.76	1.200	*	0.000	1.00	2.407	2.89	130.7	0.0	151.8
66.00		1.00	0.87	25.825	28.40	245.90	1.200	*	0.000	1.00	2.393	2.87	130.5	0.0	151.3
67.00		1.00	0.88	25.937	28.53	245.04	1.200	*	0.000	1.00	2.380	2.86	130.3	0.0	150.8
68.00		1.00	0.88	26.047	28.65	244.16	1.200	*	0.000	1.00	2.366	2.84	130.2	0.0	150.4
69.00		1.00	0.88	26.156	28.77	243.26	1.200	*	0.000	1.00	2.353	2.82	130.0	0.0	149.9
70.00		1.00	0.89	26.263	28.89	242.36	1.200	*	0.000	1.00	2.339	2.81	129.7	0.0	149.4
70.00	Bot - Section 3	1.00	0.89	26.263	28.89	242.36	1.200	*	0.000	0.00	0.001	0.00	0.0	0.0	0.1
71.00		1.00	0.89	26.370	29.00	241.44	1.200	*	0.000	1.00	2.368	2.84	131.9	0.0	215.9
72.00		1.00	0.90	26.476	29.12	240.52	1.200	*	0.000	1.00	2.355	2.83	131.7	0.0	215.1
73.00		1.00	0.90	26.580	29.23	239.58	1.200	*	0.000	1.00	2.342	2.81	131.5	0.0	214.2
73.50	Top - Section 2	1.00	0.90	26.632	29.29	239.10	1.200	*	0.000	0.50	1.167	1.40	65.6	0.0	106.9
74.00		1.00	0.90	26.684	29.35	243.15	1.200	*	0.000	0.50	1.162	1.39	65.5	0.0	66.3
75.00		1.00	0.91	26.786	29.46	242.19	1.200	*	0.000	1.00	2.315	2.78	130.9	0.0	132.3
76.00		1.00	0.91	26.888	29.57	241.23	1.200	*	0.000	1.00	2.301	2.76	130.7	0.0	131.9
77.00		1.00	0.91	26.988	29.68	240.26	1.200	*	0.000	1.00	2.288	2.75	130.4	0.0	131.6
78.00		1.00	0.92	27.088	29.79	239.28	1.200	*	0.000	1.00	2.274	2.73	130.1	0.0	131.2
79.00		1.00	0.92	27.187	29.90	238.28	1.200	*	0.000	1.00	2.261	2.71	129.8	0.0	130.8
80.00		1.00	0.92	27.285	30.01	237.28	1.200	*	0.000	1.00	2.247	2.70	129.5	0.0	130.4
81.00		1.00	0.93	27.382	30.12	236.27	1.200	*	0.000	1.00	2.233	2.68	129.2	0.0	130.0
82.00		1.00	0.93	27.478	30.22	235.25	1.200	*	0.000	1.00	2.220	2.66	128.8	0.0	129.6
83.00		1.00	0.93	27.573	30.33	234.21	1.200	*	0.000	1.00	2.206	2.65	128.5	0.0	129.2
84.00		1.00	0.94	27.668	30.43	233.17	1.200	*	0.000	1.00	2.193	2.63	128.1	0.0	128.8
85.00		1.00	0.94	27.761	30.53	232.12	1.200	*	0.000	1.00	2.179	2.62	127.8	0.0	128.5
86.00		1.00	0.94	27.854	30.64	231.07	1.200	*	0.000	1.00	2.166	2.60	127.4	0.0	128.1
86.50	Reinf. Top Reinf Bottom	1.00	0.94	27.901	30.69	230.53	1.200	*	0.000	0.50	1.078	1.29	63.5	0.0	63.9
87.00		1.00	0.95	27.946	30.74	230.00	1.200	*	0.000	0.50	1.074	1.29	63.4	0.0	63.8
88.00		1.00	0.95	28.038	30.84	228.92	1.200	*	0.000	1.00	2.139	2.57	126.7	0.0	127.3
89.00		1.00	0.95	28.129	30.94	227.84	1.200	*	0.000	1.00	2.125	2.55	126.3	0.0	126.9
90.00		1.00	0.95	28.219	31.04	226.75	1.200	*	0.000	1.00	2.112	2.53	125.9	0.0	126.5
91.00		1.00	0.96	28.308	31.13	225.65	1.200	*	0.000	1.00	2.098	2.52	125.4	0.0	126.1
92.00		1.00	0.96	28.396	31.23	224.54	1.200	*	0.000	1.00	2.085	2.50	125.0	0.0	125.8
93.00		1.00	0.96	28.484	31.33	223.42	1.200	*	0.000	1.00	2.071	2.49	124.6	0.0	125.4
94.00		1.00	0.97	28.571	31.42	222.30	1.200	*	0.000	1.00	2.058	2.47	124.2	0.0	125.0
95.00		1.00	0.97	28.658	31.52	221.17	1.200	*	0.000	1.00	2.044	2.45	123.7	0.0	124.6
95.33	Reinf. Top	1.00	0.97	28.686	31.55	220.79	1.200	*	0.000	0.33	0.678	0.81	41.1	0.0	41.4
96.00		1.00	0.97	28.744	31.61	220.03	1.200	*	0.000	0.67	1.353	1.62	82.1	0.0	38.2
97.00		1.00	0.98	28.829	31.71	218.89	1.200	*	0.000	1.00	2.017	2.42	122.8	0.0	57.0
98.00		1.00	0.98	28.913	31.80	217.73	1.200	*	0.000	1.00	2.004	2.40	122.4	0.0	56.6
99.00		1.00	0.98	28.997	31.89	216.57	1.200	*	0.000	1.00	1.990	2.39	121.9	0.0	56.3
100.0		1.00	0.98	29.081	31.98	215.41	1.200	*	0.000	1.00	1.977	2.37	121.4	0.0	55.9

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:19 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 39**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

Gust Response Factor : 1.10 — **Wind Importance Factor : 1.00**

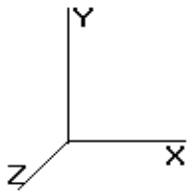
Dead Load Factor : 0.90

Wind Load Factor : 1.60

101.0		1.00	0.99	29.164	32.08	214.23	1.200	*	0.000	1.00	1.963	2.36	120.9	0.0	55.5
102.0		1.00	0.99	29.246	32.17	213.05	1.000	*	0.000	1.00	1.950	1.95	100.4	0.0	55.1
103.0		1.00	0.99	29.328	32.26	211.87	1.000	*	0.000	1.00	1.936	1.94	99.9	0.0	54.7
104.0		1.00	0.99	29.409	32.34	210.67	1.000	*	0.000	1.00	1.923	1.92	99.5	0.0	54.3
105.0		1.00	1.00	29.489	32.43	209.47	1.000	*	0.000	1.00	1.909	1.91	99.1	0.0	53.9
106.0		1.00	1.00	29.569	32.52	208.26	1.000	*	0.000	1.00	1.896	1.90	98.6	0.0	53.6
107.0		1.00	1.00	29.649	32.61	207.05	1.000	*	0.000	1.00	1.882	1.88	98.2	0.0	53.2
108.0	Appertunance(s)	1.00	1.01	29.727	32.70	205.83	1.000	*	0.000	1.00	1.869	1.87	97.8	0.0	52.8
109.0		1.00	1.01	29.806	32.78	204.61	1.000	*	0.000	1.00	1.855	1.86	97.3	0.0	52.4
110.0		1.00	1.01	29.884	32.87	203.38	1.000	*	0.000	1.00	1.842	1.84	96.9	0.0	52.0
110.0	Top - Section 3	1.00	1.01	29.884	32.87	203.38	1.000	*	0.000	0.00	0.001	0.00	0.0	0.0	0.0
111.0		1.00	1.01	29.961	32.95	202.14	1.000	*	0.000	1.00	1.827	1.83	96.4	0.0	38.8
112.0		1.00	1.02	30.038	33.04	200.90	1.000	*	0.000	1.00	1.814	1.81	95.9	0.0	38.5
113.0		1.00	1.02	30.114	33.12	199.65	1.000	*	0.000	1.00	1.801	1.80	95.5	0.0	38.3
114.0		1.00	1.02	30.190	33.20	198.39	1.000	*	0.000	1.00	1.787	1.79	95.0	0.0	38.0
115.0		1.00	1.02	30.266	33.29	197.13	1.000	*	0.000	1.00	1.774	1.77	94.5	0.0	37.7
116.0		1.00	1.03	30.341	33.37	195.87	1.000	*	0.000	1.00	1.760	1.76	94.0	0.0	37.4
117.0		1.00	1.03	30.415	33.45	194.60	1.000	*	0.000	1.00	1.747	1.75	93.5	0.0	37.1
118.0		1.00	1.03	30.489	33.53	193.32	1.000	*	0.000	1.00	1.733	1.73	93.0	0.0	36.8
119.0		1.00	1.03	30.563	33.61	192.04	1.000	*	0.000	1.00	1.720	1.72	92.5	0.0	36.5
120.0		1.00	1.04	30.636	33.69	190.75	1.000	*	0.000	1.00	1.706	1.71	92.0	0.0	36.2
121.0		1.00	1.04	30.709	33.77	189.46	1.000	*	0.000	1.00	1.693	1.69	91.5	0.0	35.9
122.0		1.00	1.04	30.781	33.85	188.16	1.000	*	0.000	1.00	1.679	1.68	91.0	0.0	35.6
123.0		1.00	1.04	30.853	33.93	186.86	1.000	*	0.000	1.00	1.666	1.67	90.5	0.0	35.4
124.0		1.00	1.05	30.924	34.01	185.55	1.000	*	0.000	1.00	1.652	1.65	89.9	0.0	35.1
125.0		1.00	1.05	30.995	34.09	184.24	1.000	*	0.000	1.00	1.639	1.64	89.4	0.0	34.8
126.0		1.00	1.05	31.066	34.17	182.92	1.200	*	0.000	1.00	1.625	1.95	106.6	0.0	34.5
127.0		1.00	1.05	31.136	34.25	181.60	1.200	*	0.000	1.00	1.612	1.93	106.0	0.0	34.2
128.0		1.00	1.06	31.206	34.32	180.27	1.200	*	0.000	1.00	1.598	1.92	105.3	0.0	33.9
129.0		1.00	1.06	31.276	34.40	178.94	1.200	*	0.000	1.00	1.585	1.90	104.7	0.0	33.6
130.0		1.00	1.06	31.345	34.47	177.60	1.200	*	0.000	1.00	1.571	1.89	104.0	0.0	33.3
131.0		1.00	1.06	31.413	34.55	176.26	1.200	*	0.000	1.00	1.558	1.87	103.3	0.0	33.0
132.0		1.00	1.07	31.482	34.63	174.91	1.200	*	0.000	1.00	1.544	1.85	102.7	0.0	32.7
133.0		1.00	1.07	31.550	34.70	173.56	1.200	*	0.000	1.00	1.531	1.84	102.0	0.0	32.5
134.0		1.00	1.07	31.617	34.77	172.21	1.200	*	0.000	1.00	1.517	1.82	101.3	0.0	32.2
135.0		1.00	1.07	31.684	34.85	170.85	1.200	*	0.000	1.00	1.504	1.80	100.6	0.0	31.9
136.0		1.00	1.07	31.751	34.92	169.48	1.200	*	0.000	1.00	1.490	1.79	99.9	0.0	31.6
137.0		1.00	1.08	31.818	35.00	168.11	1.200	*	0.000	1.00	1.477	1.77	99.2	0.0	31.3
138.0		1.00	1.08	31.884	35.07	166.74	1.200	*	0.000	1.00	1.463	1.76	98.5	0.0	31.0
139.0		1.00	1.08	31.950	35.14	165.36	1.200	*	0.000	1.00	1.450	1.74	97.8	0.0	30.7
140.0		1.00	1.08	32.015	35.21	163.98	1.200	*	0.000	1.00	1.436	1.72	97.1	0.0	30.4
141.0		1.00	1.09	32.081	35.28	162.60	1.200	*	0.000	1.00	1.423	1.71	96.4	0.0	30.1
142.0		1.00	1.09	32.145	35.36	161.21	1.200	*	0.000	1.00	1.409	1.69	95.7	0.0	29.9
143.0		1.00	1.09	32.210	35.43	159.81	1.200	*	0.000	1.00	1.395	1.67	94.9	0.0	29.6
144.0		1.00	1.09	32.274	35.50	158.42	1.200	*	0.000	1.00	1.382	1.66	94.2	0.0	29.3
145.0		1.00	1.09	32.338	35.57	157.01	1.200	*	0.000	1.00	1.368	1.64	93.5	0.0	29.0
146.0	Appertunance(s)	1.00	1.10	32.402	35.64	155.61	1.200	*	0.000	1.00	1.355	1.63	92.7	0.0	28.7
147.0		1.00	1.10	32.465	35.71	154.20	1.000		0.000	1.00	1.341	1.34	76.6	0.0	28.4
148.0		1.00	1.10	32.528	35.78	152.78	1.000		0.000	1.00	1.328	1.33	76.0	0.0	28.1
149.0		1.00	1.10	32.590	35.84	151.37	1.000		0.000	1.00	1.314	1.31	75.4	0.0	27.8
150.0	Appertunance(s)	1.00	1.11	32.653	35.91	149.95	1.000		0.000	1.00	1.301	1.30	74.8	0.0	27.5
Totals:										**150.00**			**17,654.2**	**0.0**	**18,401.9**

*** = Cf Adjusted By Linear Load Ra Effect**

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:19 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 40**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



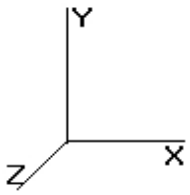
Load Case: **0.9D + 1.6W** **110.00 mph with No Ice (Reduced DL)** **36 Iterations**

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

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)
108.0	RFS FD9R6004/2C-3L	6	29.727	32.700	0.50	0.80	0.89	0.000	0.000	46.46	0.00	0.00	14.04
108.0	Commscope HBX-	3	29.727	32.700	0.68	0.80	5.42	0.000	0.000	283.48	0.00	0.00	28.08
108.0	Commscope HBX-	3	29.727	32.700	0.69	0.80	8.68	0.000	0.000	454.01	0.00	0.00	36.99
108.0	Antel BXA-70063/6CF_	3	29.727	32.700	0.65	0.80	11.81	0.000	0.000	617.86	0.00	0.00	45.90
108.0	Andrew LNX-6514DS-	3	29.727	32.700	0.69	0.80	13.53	0.000	0.000	707.87	0.00	0.00	104.76
108.0	RFS FD9R6004/1C-3L	6	29.727	32.700	0.50	0.80	0.89	0.000	0.000	46.46	0.00	0.00	16.74
108.0	Round Low Profile Pl	1	29.727	32.700	1.00	1.00	21.70	0.000	0.000	1,135.34	0.00	0.00	1,350.00
146.0	12" x 12" Junction B	3	32.402	35.642	0.50	0.80	1.44	0.000	0.000	82.12	0.00	0.00	27.00
146.0	NextNet BTS-2500	3	32.402	35.642	0.50	0.80	2.18	0.000	0.000	124.55	0.00	0.00	94.50
146.0	Argus LLPX310R	3	32.402	35.642	0.63	0.80	6.49	0.000	0.000	369.90	0.00	0.00	77.22
146.0	Collar	1	32.402	35.642	1.00	1.00	8.50	0.000	0.000	484.73	0.00	0.00	36.00
146.0	DragonWave Horizon	3	32.402	35.642	0.33	0.80	0.34	0.000	0.000	19.42	0.00	0.00	28.62
146.0	DragonWave A-ANT-	1	32.402	35.642	0.90	0.80	1.16	0.000	0.000	66.11	0.00	0.00	13.50
146.0	DragonWave A-ANT-	1	32.402	35.642	1.00	0.80	6.94	0.000	0.000	395.54	0.00	0.00	42.84
146.0	DragonWave A-ANT-	1	32.402	35.642	0.90	0.80	3.38	0.000	0.000	192.57	0.00	0.00	24.30
150.0	Round Low Profile Pl	1	32.653	35.918	1.00	1.00	21.70	0.000	0.000	1,247.07	0.00	0.00	1,350.00
150.0	Allgon 7770.00	3	32.838	36.122	0.65	0.80	8.60	0.000	3.000	496.78	0.00	1,490.34	94.50
150.0	Powerwave LGP21401	6	32.838	36.122	0.50	0.80	2.64	0.000	3.000	152.58	0.00	457.74	76.14
150.0	Powerwave LGP21901	6	32.838	36.122	0.50	0.80	0.55	0.000	3.000	31.90	0.00	95.71	29.70
150.0	Raycap DC6-48-60-18-	1	32.838	36.122	1.00	0.80	0.89	0.000	3.000	51.32	0.00	153.97	18.00
150.0	Tophat	1	32.746	36.020	1.00	1.00	3.50	0.000	1.500	201.71	0.00	302.57	180.00
150.0	Kathrein 782 10250	6	32.838	36.122	0.50	0.80	1.25	0.000	3.000	72.13	0.00	216.38	34.56
150.0	Raycap DC6-48-60-18-	2	32.838	36.122	1.00	0.80	2.05	0.000	3.000	118.36	0.00	355.09	57.24
150.0	Ericsson RRUS A2 B2	3	32.838	36.122	0.50	0.80	2.47	0.000	3.000	142.87	0.00	428.61	59.40
150.0	Ericsson RRUS 11 (Ba	6	32.838	36.122	0.50	0.80	6.70	0.000	3.000	386.99	0.00	1,160.98	273.78
150.0	Ericsson RRUS 12	3	32.838	36.122	0.50	0.80	3.78	0.000	3.000	218.46	0.00	655.39	135.00
150.0	Ericsson RRUS E2 B29	3	32.838	36.122	0.50	0.80	3.78	0.000	3.000	218.46	0.00	655.39	162.00
150.0	Ericsson RRUS-32	3	32.838	36.122	0.50	0.80	3.97	0.000	3.000	229.56	0.00	688.68	207.90
150.0	CCI OPA-65R-LCUU-H6	6	32.838	36.122	0.66	0.80	30.60	0.000	3.000	1,768.69	0.00	5,306.07	394.20
										10,363.31			5,012.91

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:19 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 41
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



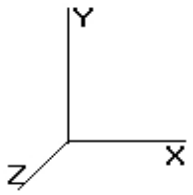
Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

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)
1.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.194	1.283	0.00	0.00
2.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.195	1.285	0.00	0.00
3.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.196	1.288	0.00	0.00
4.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.197	1.290	0.00	0.00
5.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	20.599	0.198	1.293	0.00	0.00
6.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	0.25
6.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	1.06
6.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.302	0.000	5.62	0.57
6.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	3.78
6.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	0.81
6.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.302	0.000	8.63	6.82
6.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.302	0.000	0.00	0.24
6.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.302	0.000	15.13	0.00
7.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	0.25
7.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	1.06
7.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.304	0.000	5.62	0.57
7.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	3.78
7.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	0.81
7.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.304	0.000	8.63	6.82
7.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.304	0.000	0.00	0.24
7.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.304	0.000	15.13	0.00
8.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	0.25
8.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	1.06
8.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.305	0.000	5.62	0.57
8.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	3.78
8.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	0.81
8.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.305	0.000	8.63	6.82
8.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.305	0.000	0.00	0.24
8.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.305	0.000	15.13	0.00
9.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	0.25
9.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	1.06
9.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.306	0.000	5.62	0.57
9.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	3.78
9.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	0.81
9.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.306	0.000	8.63	6.82
9.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.306	0.000	0.00	0.24
9.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.306	0.000	15.13	0.00
10.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	0.25
10.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	1.06
10.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.308	0.000	5.62	0.57
10.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	3.78
10.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	0.81
10.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.308	0.000	8.63	6.82
10.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.308	0.000	0.00	0.24
10.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.308	0.000	15.13	0.00
11.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	0.25
11.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	1.06
11.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.309	0.000	5.62	0.57
11.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	3.78
11.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	0.81
11.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.309	0.000	8.63	6.82

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:19 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	42
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

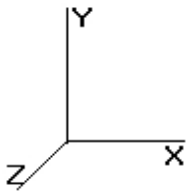
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

11.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.309	0.000	0.00	0.24
11.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.309	0.000	15.13	0.00
12.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	0.25
12.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	1.06
12.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.310	0.000	5.62	0.57
12.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	3.78
12.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	0.81
12.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.310	0.000	8.63	6.82
12.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.310	0.000	0.00	0.24
12.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.310	0.000	15.13	0.00
12.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	0.13
12.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	0.53
12.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	20.599	0.311	0.000	2.81	0.28
12.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	1.89
12.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	0.41
12.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	20.599	0.311	0.000	4.31	3.41
12.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.311	0.000	0.00	0.12
12.50	(4) # 20 Dywidag	Yes	0.50	0.668	7.50	0.31	0.21	20.599	0.311	0.000	7.56	0.00
13.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	0.13
13.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	0.53
13.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	20.599	0.312	0.000	2.81	0.28
13.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	1.89
13.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	0.41
13.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	20.599	0.312	0.000	4.31	3.41
13.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.599	0.312	0.000	0.00	0.12
13.00	(4) # 20 Dywidag	Yes	0.50	0.668	7.50	0.31	0.21	20.599	0.312	0.000	7.56	0.00
14.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	0.25
14.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	1.06
14.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.313	0.000	5.62	0.57
14.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	3.78
14.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	0.81
14.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.313	0.000	8.63	6.82
14.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.313	0.000	0.00	0.24
14.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.313	0.000	15.13	0.00
15.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	0.25
15.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	1.06
15.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.315	0.000	5.62	0.57
15.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	3.78
15.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	0.81
15.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.315	0.000	8.63	6.82
15.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.315	0.000	0.00	0.24
15.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.315	0.000	15.13	0.00
16.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	0.25
16.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	1.06
16.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.316	0.000	5.62	0.57
16.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	3.78
16.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	0.81
16.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.316	0.000	8.63	6.82
16.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.316	0.000	0.00	0.24
16.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.316	0.000	15.13	0.00
17.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	0.25
17.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	1.06
17.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.317	0.000	5.62	0.57
17.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	3.78
17.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	0.81
17.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.317	0.000	8.63	6.82
17.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.317	0.000	0.00	0.24

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:19 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**43**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

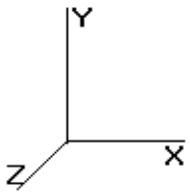
Gust Response Factor : 1.10 — **Wind Importance Factor : 1.00**

Dead Load Factor : 0.90

Wind Load Factor : 1.60

17.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.317	0.000	15.13	0.00
18.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	0.25
18.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	1.06
18.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.319	0.000	5.62	0.57
18.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	3.78
18.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	0.81
18.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.319	0.000	8.63	6.82
18.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.319	0.000	0.00	0.24
18.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.319	0.000	15.13	0.00
19.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	0.25
19.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	1.06
19.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.320	0.000	5.62	0.57
19.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	3.78
19.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	0.81
19.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.320	0.000	8.63	6.82
19.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.320	0.000	0.00	0.24
19.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.320	0.000	15.13	0.00
20.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	0.25
20.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	1.06
20.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.322	0.000	5.62	0.57
20.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	3.78
20.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	0.81
20.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.322	0.000	8.63	6.82
20.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.322	0.000	0.00	0.24
20.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.322	0.000	15.13	0.00
21.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	0.25
21.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	1.06
21.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.323	0.000	5.62	0.57
21.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	3.78
21.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	0.81
21.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.323	0.000	8.63	6.82
21.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.323	0.000	0.00	0.24
21.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.323	0.000	15.13	0.00
22.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	0.25
22.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	1.06
22.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.325	0.000	5.62	0.57
22.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	3.78
22.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	0.81
22.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.325	0.000	8.63	6.82
22.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.325	0.000	0.00	0.24
22.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.325	0.000	15.13	0.00
23.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	0.25
23.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	1.06
23.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.326	0.000	5.62	0.57
23.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	3.78
23.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	0.81
23.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.326	0.000	8.63	6.82
23.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.326	0.000	0.00	0.24
23.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.326	0.000	15.13	0.00
24.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	0.25
24.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	1.06
24.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.328	0.000	5.62	0.57
24.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	3.78
24.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	0.81
24.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.328	0.000	8.63	6.82
24.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.328	0.000	0.00	0.24
24.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.328	0.000	15.13	0.00

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:20 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page: 44**	
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

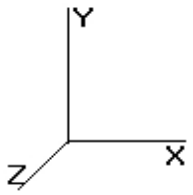
Gust Response Factor : 1.10 — **Wind Importance Factor : 1.00**

Dead Load Factor : 0.90

Wind Load Factor : 1.60

25.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	0.25
25.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	1.06
25.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.329	0.000	5.62	0.57
25.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	3.78
25.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	0.81
25.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.329	0.000	8.63	6.82
25.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.329	0.000	0.00	0.24
25.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.329	0.000	15.13	0.00
26.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	0.25
26.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	1.06
26.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.331	0.000	5.62	0.57
26.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	3.78
26.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	0.81
26.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.331	0.000	8.63	6.82
26.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.331	0.000	0.00	0.24
26.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.331	0.000	15.13	0.00
27.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	0.25
27.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	1.06
27.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.332	0.000	5.62	0.57
27.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	3.78
27.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	0.81
27.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.332	0.000	8.63	6.82
27.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.332	0.000	0.00	0.24
27.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.332	0.000	15.13	0.00
28.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	0.25
28.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	1.06
28.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.334	0.000	5.62	0.57
28.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	3.78
28.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	0.81
28.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.334	0.000	8.63	6.82
28.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.334	0.000	0.00	0.24
28.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.334	0.000	15.13	0.00
29.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	0.25
29.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	1.06
29.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.599	0.335	0.000	5.62	0.57
29.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	3.78
29.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	0.81
29.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.599	0.335	0.000	8.63	6.82
29.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.599	0.335	0.000	0.00	0.24
29.00	(4) # 20 Dywidag	Yes	1.00	0.668	7.50	0.63	0.42	20.599	0.335	0.000	15.13	0.00
30.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	0.25
30.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	1.06
30.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.616	0.337	0.000	5.62	0.57
30.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	3.78
30.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	0.81
30.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.616	0.337	0.000	8.64	6.82
30.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.616	0.337	0.000	0.00	0.24
30.00	(4) # 20 Dywidag	Yes	1.00	0.667	7.50	0.63	0.42	20.616	0.337	0.000	15.13	0.00
31.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	0.25
31.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	1.06
31.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	20.810	0.339	0.000	5.68	0.57
31.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	3.78
31.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	0.81
31.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	20.810	0.339	0.000	8.72	6.82
31.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	20.810	0.339	0.000	0.00	0.24
31.00	(4) # 20 Dywidag	Yes	1.00	0.664	7.50	0.63	0.42	20.810	0.339	0.000	15.20	0.00
31.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	0.13

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:20 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	45
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

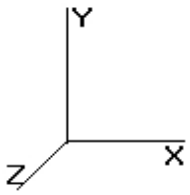
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

31.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	0.53
31.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	20.906	0.340	0.000	2.85	0.28
31.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	1.89
31.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	0.41
31.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	20.906	0.340	0.000	4.38	3.41
31.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	20.906	0.340	0.000	0.00	0.12
31.50	(4) # 20 Dywidag	Yes	0.50	0.663	7.50	0.31	0.21	20.906	0.340	0.000	7.62	0.00
32.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	0.13
32.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	0.53
32.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	21.000	0.341	0.000	2.86	0.28
32.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	1.89
32.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	0.40
32.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	21.000	0.341	0.000	4.40	3.41
32.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	21.000	0.341	0.000	0.00	0.12
32.00	(4) # 20 Dywidag	Yes	0.50	0.661	7.50	0.31	0.21	21.000	0.341	0.000	7.63	0.00
33.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	0.25
33.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	1.06
33.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	21.186	0.342	0.000	5.78	0.57
33.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	3.78
33.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	0.81
33.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	21.186	0.342	0.000	8.87	6.82
33.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.186	0.342	0.000	0.00	0.24
33.00	(4) # 20 Dywidag	Yes	1.00	0.658	7.50	0.63	0.41	21.186	0.342	0.000	15.34	0.00
34.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	0.25
34.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	1.06
34.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	21.367	0.344	0.000	5.83	0.57
34.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	3.78
34.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	0.81
34.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	21.367	0.344	0.000	8.95	6.82
34.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.367	0.344	0.000	0.00	0.24
34.00	(4) # 20 Dywidag	Yes	1.00	0.655	7.50	0.63	0.41	21.367	0.344	0.000	15.41	0.00
35.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	0.25
35.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	1.06
35.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	21.545	0.345	0.000	5.88	0.57
35.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	3.78
35.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	0.81
35.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	21.545	0.345	0.000	9.02	6.82
35.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.545	0.345	0.000	0.00	0.24
35.00	(4) # 20 Dywidag	Yes	1.00	0.653	7.50	0.63	0.41	21.545	0.345	0.000	15.47	0.00
35.67	(2) 0.51" Hybrid	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	0.17
35.67	(2) 0.78" 8 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	0.71
35.67	(1) 1 1/4" Coax	Yes	0.67	1.200	1.55	0.09	0.10	21.661	0.347	0.000	3.94	0.38
35.67	(4) 1.24" 4 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	2.52
35.67	(6) 1/2" Coax	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	0.54
35.67	(1) 3" Conduit	Yes	0.67	1.200	2.38	0.13	0.16	21.661	0.347	0.000	6.05	4.55
35.67	(6) 5/16" Coax	Yes	0.67	0.000	0.00	0.00	0.00	21.661	0.347	0.000	0.00	0.16
35.67	(4) # 20 Dywidag	Yes	0.67	0.651	7.50	0.42	0.27	21.661	0.347	0.000	10.35	0.00
36.00	(2) 0.51" Hybrid	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	0.08
36.00	(2) 0.78" 8 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	0.35
36.00	(1) 1 1/4" Coax	Yes	0.33	1.200	1.55	0.04	0.05	21.719	0.341	0.000	1.97	0.19
36.00	(4) 1.24" 4 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	1.26
36.00	(6) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	0.27
36.00	(1) 3" Conduit	Yes	0.33	1.200	2.38	0.07	0.08	21.719	0.341	0.000	3.03	2.27
36.00	(6) 5/16" Coax	Yes	0.33	0.000	0.00	0.00	0.00	21.719	0.341	0.000	0.00	0.08
36.00	(4) # 20 Dywidag	Yes	0.33	0.650	7.50	0.21	0.14	21.719	0.341	0.000	5.17	0.00
37.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	0.25
37.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	1.06

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:20 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page: 46**	
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

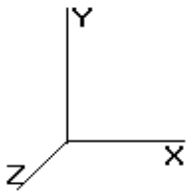
Gust Response Factor : 1.10 — **Wind Importance Factor : 1.00**

Dead Load Factor : 0.90

Wind Load Factor : 1.60

37.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	21.890	0.342	0.000	5.97	0.57
37.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	3.78
37.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	0.81
37.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	21.890	0.342	0.000	9.17	6.82
37.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	21.890	0.342	0.000	0.00	0.24
37.00	(4) # 20 Dywidag	Yes	1.00	0.648	7.50	0.63	0.40	21.890	0.342	0.000	15.59	0.00
38.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	0.25
38.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	1.06
38.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.057	0.344	0.000	6.02	0.57
38.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	3.78
38.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	0.81
38.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.057	0.344	0.000	9.24	6.82
38.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.057	0.344	0.000	0.00	0.24
38.00	(4) # 20 Dywidag	Yes	1.00	0.645	7.50	0.63	0.40	22.057	0.344	0.000	15.65	0.00
39.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	0.25
39.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	1.06
39.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.221	0.345	0.000	6.06	0.57
39.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	3.78
39.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	0.81
39.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.221	0.345	0.000	9.31	6.82
39.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.221	0.345	0.000	0.00	0.24
39.00	(4) # 20 Dywidag	Yes	1.00	0.643	7.50	0.63	0.40	22.221	0.345	0.000	15.71	0.00
40.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	0.25
40.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	1.06
40.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.383	0.347	0.000	6.11	0.57
40.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	3.78
40.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	0.81
40.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.383	0.347	0.000	9.38	6.82
40.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.383	0.347	0.000	0.00	0.24
40.00	(4) # 20 Dywidag	Yes	1.00	0.640	7.50	0.63	0.40	22.383	0.347	0.000	15.77	0.00
41.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	0.25
41.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	1.06
41.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.541	0.349	0.000	6.15	0.57
41.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	3.78
41.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	0.81
41.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.541	0.349	0.000	9.44	6.82
41.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.541	0.349	0.000	0.00	0.24
41.00	(4) # 20 Dywidag	Yes	1.00	0.638	7.50	0.63	0.40	22.541	0.349	0.000	15.82	0.00
42.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	0.25
42.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	1.06
42.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.697	0.351	0.000	6.19	0.57
42.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	3.78
42.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	0.81
42.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.697	0.351	0.000	9.51	6.82
42.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.697	0.351	0.000	0.00	0.24
42.00	(4) # 20 Dywidag	Yes	1.00	0.636	7.50	0.63	0.40	22.697	0.351	0.000	15.88	0.00
43.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	0.25
43.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	1.06
43.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	22.850	0.352	0.000	6.23	0.57
43.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	3.78
43.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	0.81
43.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	22.850	0.352	0.000	9.57	6.82
43.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	22.850	0.352	0.000	0.00	0.24
43.00	(4) # 20 Dywidag	Yes	1.00	0.634	7.50	0.63	0.40	22.850	0.352	0.000	15.93	0.00
44.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	0.25
44.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	1.06
44.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.000	0.354	0.000	6.27	0.57

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:20 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**47**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

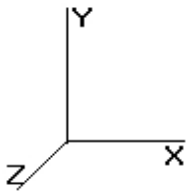
Gust Response Factor : 1.10 — **Wind Importance Factor : 1.00**

Dead Load Factor : 0.90

Wind Load Factor : 1.60

44.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	3.78
44.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	0.81
44.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.000	0.354	0.000	9.63	6.82
44.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.000	0.354	0.000	0.00	0.24
44.00	(4) # 20 Dywidag	Yes	1.00	0.632	7.50	0.63	0.39	23.000	0.354	0.000	15.98	0.00
45.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	0.25
45.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	1.06
45.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.149	0.356	0.000	6.31	0.57
45.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	3.78
45.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	0.81
45.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.149	0.356	0.000	9.70	6.82
45.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.149	0.356	0.000	0.00	0.24
45.00	(4) # 20 Dywidag	Yes	1.00	0.630	7.50	0.63	0.39	23.149	0.356	0.000	16.04	0.00
46.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	0.25
46.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	1.06
46.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.294	0.358	0.000	6.35	0.57
46.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	3.78
46.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	0.81
46.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.294	0.358	0.000	9.76	6.82
46.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.294	0.358	0.000	0.00	0.24
46.00	(4) # 20 Dywidag	Yes	1.00	0.628	7.50	0.63	0.39	23.294	0.358	0.000	16.09	0.00
47.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	0.25
47.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	1.06
47.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.438	0.359	0.000	6.39	0.57
47.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	3.78
47.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	0.81
47.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.438	0.359	0.000	9.82	6.82
47.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.438	0.359	0.000	0.00	0.24
47.00	(4) # 20 Dywidag	Yes	1.00	0.626	7.50	0.63	0.39	23.438	0.359	0.000	16.14	0.00
48.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	0.25
48.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	1.06
48.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.579	0.361	0.000	6.43	0.57
48.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	3.78
48.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	0.81
48.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.579	0.361	0.000	9.88	6.82
48.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.579	0.361	0.000	0.00	0.24
48.00	(4) # 20 Dywidag	Yes	1.00	0.624	7.50	0.63	0.39	23.579	0.361	0.000	16.18	0.00
49.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	0.25
49.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	1.06
49.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.719	0.363	0.000	6.47	0.57
49.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	3.78
49.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	0.81
49.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.719	0.363	0.000	9.94	6.82
49.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.719	0.363	0.000	0.00	0.24
49.00	(4) # 20 Dywidag	Yes	1.00	0.622	7.50	0.63	0.39	23.719	0.363	0.000	16.23	0.00
50.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	0.25
50.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	1.06
50.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.856	0.365	0.000	6.51	0.57
50.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	3.78
50.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	0.81
50.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.856	0.365	0.000	9.99	6.82
50.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.856	0.365	0.000	0.00	0.24
50.00	(4) # 20 Dywidag	Yes	1.00	0.620	7.50	0.63	0.39	23.856	0.365	0.000	16.28	0.00
51.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	0.25
51.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	1.06
51.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	23.991	0.367	0.000	6.54	0.57
51.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	3.78

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:20 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	48
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

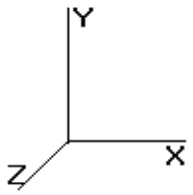
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

51.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	0.81
51.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	23.991	0.367	0.000	10.05	6.82
51.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	23.991	0.367	0.000	0.00	0.24
51.00	(4) # 20 Dywidag	Yes	1.00	0.619	7.50	0.63	0.39	23.991	0.367	0.000	16.33	0.00
52.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	0.25
52.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	1.06
52.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.125	0.369	0.000	6.58	0.57
52.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	3.78
52.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	0.81
52.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.125	0.369	0.000	10.11	6.82
52.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.125	0.369	0.000	0.00	0.24
52.00	(4) # 20 Dywidag	Yes	1.00	0.617	7.50	0.63	0.39	24.125	0.369	0.000	16.37	0.00
53.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	0.25
53.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	1.06
53.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.257	0.371	0.000	6.62	0.57
53.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	3.78
53.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	0.81
53.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.257	0.371	0.000	10.16	6.82
53.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.257	0.371	0.000	0.00	0.24
53.00	(4) # 20 Dywidag	Yes	1.00	0.615	7.50	0.63	0.38	24.257	0.371	0.000	16.41	0.00
54.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	0.25
54.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	1.06
54.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.386	0.373	0.000	6.65	0.57
54.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	3.78
54.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	0.81
54.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.386	0.373	0.000	10.21	6.82
54.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.386	0.373	0.000	0.00	0.24
54.00	(4) # 20 Dywidag	Yes	1.00	0.614	7.50	0.63	0.38	24.386	0.373	0.000	16.46	0.00
55.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	0.25
55.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	1.06
55.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.515	0.375	0.000	6.69	0.57
55.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	3.78
55.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	0.81
55.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.515	0.375	0.000	10.27	6.82
55.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.515	0.375	0.000	0.00	0.24
55.00	(4) # 20 Dywidag	Yes	1.00	0.612	7.50	0.63	0.38	24.515	0.375	0.000	16.50	0.00
56.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	0.25
56.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	1.06
56.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.641	0.377	0.000	6.72	0.57
56.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	3.78
56.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	0.81
56.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.641	0.377	0.000	10.32	6.82
56.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.641	0.377	0.000	0.00	0.24
56.00	(4) # 20 Dywidag	Yes	1.00	0.610	7.50	0.63	0.38	24.641	0.377	0.000	16.54	0.00
57.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	0.25
57.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	1.06
57.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.766	0.379	0.000	6.76	0.57
57.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	3.78
57.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	0.81
57.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.766	0.379	0.000	10.37	6.82
57.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.766	0.379	0.000	0.00	0.24
57.00	(4) # 20 Dywidag	Yes	1.00	0.609	7.50	0.63	0.38	24.766	0.379	0.000	16.59	0.00
58.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	0.25
58.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	1.06
58.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	24.889	0.381	0.000	6.79	0.57
58.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	3.78
58.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	0.81

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:20 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	49
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

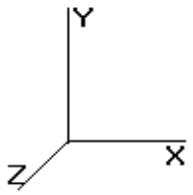
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

58.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	24.889	0.381	0.000	10.43	6.82
58.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	24.889	0.381	0.000	0.00	0.24
58.00	(4) # 20 Dywidag	Yes	1.00	0.607	7.50	0.63	0.38	24.889	0.381	0.000	16.63	0.00
59.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	0.25
59.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	1.06
59.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.011	0.383	0.000	6.82	0.57
59.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	3.78
59.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	0.81
59.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.011	0.383	0.000	10.48	6.82
59.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.011	0.383	0.000	0.00	0.24
59.00	(4) # 20 Dywidag	Yes	1.00	0.606	7.50	0.63	0.38	25.011	0.383	0.000	16.67	0.00
60.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	0.25
60.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	1.06
60.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.132	0.385	0.000	6.86	0.57
60.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	3.78
60.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	0.81
60.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.132	0.385	0.000	10.53	6.82
60.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.132	0.385	0.000	0.00	0.24
60.00	(4) # 20 Dywidag	Yes	1.00	0.604	7.50	0.63	0.38	25.132	0.385	0.000	16.71	0.00
61.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	0.25
61.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	1.06
61.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.251	0.387	0.000	6.89	0.57
61.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	3.78
61.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	0.81
61.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.251	0.387	0.000	10.58	6.82
61.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.251	0.387	0.000	0.00	0.24
61.00	(4) # 20 Dywidag	Yes	1.00	0.603	7.50	0.63	0.38	25.251	0.387	0.000	16.75	0.00
62.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	0.25
62.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	1.06
62.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.368	0.389	0.000	6.92	0.57
62.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	3.78
62.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	0.81
62.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.368	0.389	0.000	10.63	6.82
62.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.368	0.389	0.000	0.00	0.24
62.00	(4) # 20 Dywidag	Yes	1.00	0.602	7.50	0.63	0.38	25.368	0.389	0.000	16.79	0.00
63.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	0.25
63.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	1.06
63.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.485	0.391	0.000	6.95	0.57
63.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	3.78
63.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	0.81
63.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.485	0.391	0.000	10.67	6.82
63.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.485	0.391	0.000	0.00	0.24
63.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.485	0.391	0.000	16.83	0.00
64.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	0.25
64.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	1.06
64.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.599	0.394	0.000	6.98	0.57
64.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	3.78
64.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	0.81
64.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.599	0.394	0.000	10.72	6.82
64.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.599	0.394	0.000	0.00	0.24
64.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.599	0.394	0.000	16.90	0.00
65.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	0.25
65.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	1.06
65.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.713	0.396	0.000	7.01	0.57
65.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	3.78
65.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	0.81
65.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.713	0.396	0.000	10.77	6.82

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:20 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	50
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

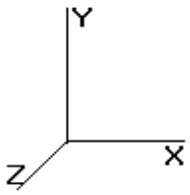
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

65.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.713	0.396	0.000	0.00	0.24
65.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.713	0.396	0.000	16.97	0.00
66.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	0.25
66.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	1.06
66.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.825	0.398	0.000	7.05	0.57
66.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	3.78
66.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	0.81
66.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.825	0.398	0.000	10.82	6.82
66.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.825	0.398	0.000	0.00	0.24
66.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.825	0.398	0.000	17.04	0.00
67.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	0.25
67.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	1.06
67.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	25.937	0.400	0.000	7.08	0.57
67.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	3.78
67.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	0.81
67.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	25.937	0.400	0.000	10.86	6.82
67.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	25.937	0.400	0.000	0.00	0.24
67.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	25.937	0.400	0.000	17.12	0.00
68.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	0.25
68.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	1.06
68.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.047	0.403	0.000	7.11	0.57
68.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	3.78
68.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	0.81
68.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.047	0.403	0.000	10.91	6.82
68.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.047	0.403	0.000	0.00	0.24
68.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.047	0.403	0.000	17.19	0.00
69.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	0.25
69.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	1.06
69.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.156	0.405	0.000	7.14	0.57
69.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	3.78
69.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	0.81
69.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.156	0.405	0.000	10.96	6.82
69.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.156	0.405	0.000	0.00	0.24
69.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.156	0.405	0.000	17.26	0.00
70.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	0.25
70.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	1.06
70.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.263	0.407	0.000	7.16	0.57
70.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	3.78
70.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	0.81
70.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.263	0.407	0.000	11.00	6.82
70.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.263	0.407	0.000	0.00	0.24
70.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.263	0.407	0.000	17.33	0.00
70.00	(2) 0.51" Hybrid	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(2) 0.78" 8 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(1) 1 1/4" Coax	Yes	0.00	1.200	1.55	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(4) 1.24" 4 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(6) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(1) 3" Conduit	Yes	0.00	1.200	2.38	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(6) 5/16" Coax	Yes	0.00	0.000	0.00	0.00	0.00	26.263	0.408	0.000	0.00	0.00
70.00	(4) # 20 Dywidag	Yes	0.00	0.600	7.50	0.00	0.00	26.263	0.408	0.000	0.01	0.00
71.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	0.25
71.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	1.06
71.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.15	26.370	0.410	0.000	7.19	0.57
71.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	3.78
71.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	0.81
71.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.370	0.410	0.000	11.04	6.82
71.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.370	0.410	0.000	0.00	0.24

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:20 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 51	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

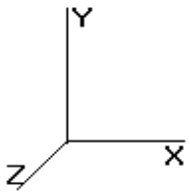
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

71.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.62	0.37	26.370	0.410	0.000	17.40	0.00
72.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	0.25
72.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	1.06
72.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.476	0.412	0.000	7.22	0.57
72.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	3.78
72.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	0.81
72.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.476	0.412	0.000	11.09	6.82
72.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.476	0.412	0.000	0.00	0.24
72.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.476	0.412	0.000	17.47	0.00
73.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	0.25
73.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	1.06
73.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.580	0.414	0.000	7.25	0.57
73.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	3.78
73.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	0.81
73.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.580	0.414	0.000	11.13	6.82
73.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.580	0.414	0.000	0.00	0.24
73.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.580	0.414	0.000	17.54	0.00
73.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	0.13
73.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	0.53
73.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	26.632	0.416	0.000	3.64	0.28
73.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	1.89
73.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	0.41
73.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	26.632	0.416	0.000	5.58	3.41
73.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	26.632	0.416	0.000	0.00	0.12
73.50	(4) # 20 Dywidag	Yes	0.50	0.600	7.50	0.31	0.19	26.632	0.416	0.000	8.79	0.00
74.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	0.13
74.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	0.53
74.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	26.684	0.410	0.000	3.64	0.28
74.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	1.89
74.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	0.40
74.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	26.684	0.410	0.000	5.58	3.41
74.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	26.684	0.410	0.000	0.00	0.12
74.00	(4) # 20 Dywidag	Yes	0.50	0.600	7.50	0.31	0.19	26.684	0.410	0.000	8.80	0.00
75.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	0.25
75.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	1.06
75.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.786	0.412	0.000	7.31	0.57
75.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	3.78
75.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	0.81
75.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.786	0.412	0.000	11.22	6.82
75.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.786	0.412	0.000	0.00	0.24
75.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.786	0.412	0.000	17.68	0.00
76.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	0.25
76.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	1.06
76.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.888	0.414	0.000	7.33	0.57
76.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	3.78
76.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	0.81
76.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.888	0.414	0.000	11.26	6.82
76.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.888	0.414	0.000	0.00	0.24
76.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.888	0.414	0.000	17.75	0.00
77.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	0.25
77.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	1.06
77.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	26.988	0.416	0.000	7.36	0.57
77.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	3.78
77.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	0.81
77.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	26.988	0.416	0.000	11.30	6.82
77.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	26.988	0.416	0.000	0.00	0.24
77.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	26.988	0.416	0.000	17.81	0.00

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:21 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	52
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



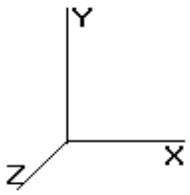
Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

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

Wind Importance Factor : 1.00

78.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	0.25
78.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	1.06
78.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.088	0.419	0.000	7.39	0.57
78.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	3.78
78.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	0.81
78.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.088	0.419	0.000	11.35	6.82
78.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.088	0.419	0.000	0.00	0.24
78.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.088	0.419	0.000	17.88	0.00
79.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	0.25
79.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	1.06
79.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.187	0.421	0.000	7.42	0.57
79.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	3.78
79.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	0.81
79.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.187	0.421	0.000	11.39	6.82
79.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.187	0.421	0.000	0.00	0.24
79.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.187	0.421	0.000	17.94	0.00
80.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	0.25
80.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	1.06
80.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.285	0.424	0.000	7.44	0.57
80.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	3.78
80.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	0.81
80.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.285	0.424	0.000	11.43	6.82
80.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.285	0.424	0.000	0.00	0.24
80.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.285	0.424	0.000	18.01	0.00
81.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	0.25
81.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	1.06
81.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.382	0.426	0.000	7.47	0.57
81.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	3.78
81.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	0.81
81.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.382	0.426	0.000	11.47	6.82
81.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.382	0.426	0.000	0.00	0.24
81.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.382	0.426	0.000	18.07	0.00
82.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	0.25
82.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	1.06
82.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.478	0.429	0.000	7.50	0.57
82.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	3.78
82.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	0.81
82.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.478	0.429	0.000	11.51	6.82
82.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.478	0.429	0.000	0.00	0.24
82.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.478	0.429	0.000	18.14	0.00
83.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	0.25
83.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	1.06
83.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.573	0.432	0.000	7.52	0.57
83.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	3.78
83.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	0.81
83.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.573	0.432	0.000	11.55	6.82
83.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.573	0.432	0.000	0.00	0.24
83.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.573	0.432	0.000	18.20	0.00
84.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	0.25
84.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	1.06
84.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.668	0.434	0.000	7.55	0.57
84.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	3.78
84.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	0.81
84.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.668	0.434	0.000	11.59	6.82
84.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.668	0.434	0.000	0.00	0.24
84.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.668	0.434	0.000	18.26	0.00
85.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	0.25

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:21 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**53**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

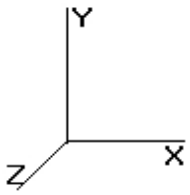
Gust Response Factor : 1.10 — **Wind Importance Factor : 1.00**

Dead Load Factor : 0.90

Wind Load Factor : 1.60

85.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	1.06
85.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.761	0.437	0.000	7.57	0.57
85.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	3.78
85.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	0.81
85.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.761	0.437	0.000	11.63	6.82
85.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.761	0.437	0.000	0.00	0.24
85.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.761	0.437	0.000	18.32	0.00
86.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	0.25
86.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	1.06
86.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	27.854	0.440	0.000	7.60	0.57
86.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	3.78
86.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	0.81
86.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	27.854	0.440	0.000	11.67	6.82
86.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	27.854	0.440	0.000	0.00	0.24
86.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	27.854	0.440	0.000	18.38	0.00
86.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	0.13
86.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	0.53
86.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	27.901	0.442	0.000	3.81	0.28
86.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	1.89
86.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	0.41
86.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	27.901	0.442	0.000	5.84	3.41
86.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	27.901	0.442	0.000	0.00	0.12
86.50	(4) # 20 Dywidag	Yes	0.50	0.600	7.50	0.31	0.19	27.901	0.442	0.000	9.21	0.00
87.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	0.13
87.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	0.53
87.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	27.946	0.443	0.000	3.81	0.28
87.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	1.89
87.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	0.41
87.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	27.946	0.443	0.000	5.85	3.41
87.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	27.946	0.443	0.000	0.00	0.12
87.00	(4) # 20 Dywidag	Yes	0.50	0.600	7.50	0.31	0.19	27.946	0.443	0.000	9.22	0.00
88.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	0.25
88.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	1.06
88.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.038	0.445	0.000	7.65	0.57
88.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	3.78
88.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	0.81
88.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.038	0.445	0.000	11.74	6.82
88.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.038	0.445	0.000	0.00	0.24
88.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.038	0.445	0.000	18.51	0.00
89.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	0.25
89.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	1.06
89.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.129	0.448	0.000	7.67	0.57
89.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	3.78
89.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	0.81
89.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.129	0.448	0.000	11.78	6.82
89.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.129	0.448	0.000	0.00	0.24
89.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.129	0.448	0.000	18.56	0.00
90.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	0.25
90.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	1.06
90.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.219	0.451	0.000	7.70	0.57
90.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	3.78
90.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	0.81
90.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.219	0.451	0.000	11.82	6.82
90.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.219	0.451	0.000	0.00	0.24
90.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.219	0.451	0.000	18.62	0.00
91.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	0.25
91.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	1.06

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:21 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 54	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

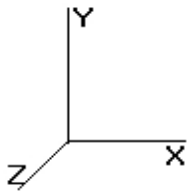
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

91.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.308	0.454	0.000	7.72	0.57
91.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	3.78
91.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	0.81
91.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.308	0.454	0.000	11.86	6.82
91.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.308	0.454	0.000	0.00	0.24
91.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.308	0.454	0.000	18.68	0.00
92.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	0.25
92.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	1.06
92.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.396	0.457	0.000	7.75	0.57
92.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	3.78
92.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	0.81
92.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.396	0.457	0.000	11.89	6.82
92.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.396	0.457	0.000	0.00	0.24
92.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.396	0.457	0.000	18.74	0.00
93.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	0.25
93.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	1.06
93.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.484	0.460	0.000	7.77	0.57
93.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	3.78
93.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	0.81
93.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.484	0.460	0.000	11.93	6.82
93.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.484	0.460	0.000	0.00	0.24
93.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.484	0.460	0.000	18.80	0.00
94.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	0.25
94.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	1.06
94.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.571	0.463	0.000	7.79	0.57
94.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	3.78
94.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	0.81
94.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.571	0.463	0.000	11.97	6.82
94.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.571	0.463	0.000	0.00	0.24
94.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.571	0.463	0.000	18.86	0.00
95.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	0.25
95.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	1.06
95.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.658	0.466	0.000	7.82	0.57
95.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	3.78
95.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	0.81
95.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.658	0.466	0.000	12.00	6.82
95.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.658	0.466	0.000	0.00	0.24
95.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.658	0.466	0.000	18.91	0.00
95.33	(2) 0.51" Hybrid	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	0.08
95.33	(2) 0.78" 8 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	0.35
95.33	(1) 1 1/4" Coax	Yes	0.33	1.200	1.55	0.04	0.05	28.686	0.468	0.000	2.61	0.19
95.33	(4) 1.24" 4 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	1.26
95.33	(6) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	0.27
95.33	(1) 3" Conduit	Yes	0.33	1.200	2.38	0.07	0.08	28.686	0.468	0.000	4.00	2.27
95.33	(6) 5/16" Coax	Yes	0.33	0.000	0.00	0.00	0.00	28.686	0.468	0.000	0.00	0.08
95.33	(4) # 20 Dywidag	Yes	0.33	0.600	7.50	0.21	0.12	28.686	0.468	0.000	6.31	0.00
96.00	(2) 0.51" Hybrid	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	0.17
96.00	(2) 0.78" 8 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	0.71
96.00	(1) 1 1/4" Coax	Yes	0.67	1.200	1.55	0.09	0.10	28.744	0.470	0.000	5.23	0.38
96.00	(4) 1.24" 4 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	2.52
96.00	(6) 1/2" Coax	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	0.54
96.00	(1) 3" Conduit	Yes	0.67	1.200	2.38	0.13	0.16	28.744	0.470	0.000	8.03	4.55
96.00	(6) 5/16" Coax	Yes	0.67	0.000	0.00	0.00	0.00	28.744	0.470	0.000	0.00	0.16
96.00	(4) # 20 Dywidag	Yes	0.67	0.600	7.50	0.42	0.25	28.744	0.470	0.000	12.65	0.00
97.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	0.25
97.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	1.06
97.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.829	0.472	0.000	7.86	0.57

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:21 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**55**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

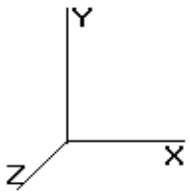
Gust Response Factor : 1.10 — **Wind Importance Factor : 1.00**

Dead Load Factor : 0.90

Wind Load Factor : 1.60

97.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	3.78
97.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	0.81
97.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.829	0.472	0.000	12.08	6.82
97.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.829	0.472	0.000	0.00	0.24
97.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.829	0.472	0.000	19.03	0.00
98.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	0.25
98.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	1.06
98.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.913	0.475	0.000	7.89	0.57
98.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	3.78
98.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	0.81
98.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.913	0.475	0.000	12.11	6.82
98.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.913	0.475	0.000	0.00	0.24
98.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.913	0.475	0.000	19.08	0.00
99.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	0.25
99.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	1.06
99.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	28.997	0.479	0.000	7.91	0.57
99.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	3.78
99.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	0.81
99.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	28.997	0.479	0.000	12.15	6.82
99.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	28.997	0.479	0.000	0.00	0.24
99.00	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	28.997	0.479	0.000	19.14	0.00
100.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	0.25
100.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	1.06
100.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	29.081	0.482	0.000	7.93	0.57
100.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	3.78
100.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	0.81
100.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	29.081	0.482	0.000	12.18	6.82
100.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.081	0.482	0.000	0.00	0.24
100.0	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	29.081	0.482	0.000	19.19	0.00
101.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	0.25
101.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	1.06
101.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	29.164	0.485	0.000	7.96	0.57
101.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	3.78
101.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	0.81
101.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	29.164	0.485	0.000	12.22	6.82
101.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.164	0.485	0.000	0.00	0.24
101.0	(4) # 20 Dywidag	Yes	1.00	0.600	7.50	0.63	0.38	29.164	0.485	0.000	19.25	0.00
102.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	0.25
102.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	1.06
102.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.246	0.168	1.204	0.00	0.57
102.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	3.78
102.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	0.81
102.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.246	0.168	1.204	0.00	6.82
102.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.246	0.168	1.204	0.00	0.24
103.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	0.25
103.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	1.06
103.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.328	0.169	1.207	0.00	0.57
103.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	3.78
103.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	0.81
103.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.328	0.169	1.207	0.00	6.82
103.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.328	0.169	1.207	0.00	0.24
104.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	0.25
104.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	1.06
104.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.409	0.170	1.211	0.00	0.57
104.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	3.78
104.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	0.81
104.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.409	0.170	1.211	0.00	6.82

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:21 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page: 56	
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

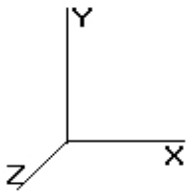
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

104.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.409	0.170	1.211	0.00	0.24
105.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	0.25
105.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	1.06
105.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.489	0.172	1.215	0.00	0.57
105.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	3.78
105.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	0.81
105.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.489	0.172	1.215	0.00	6.82
105.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.489	0.172	1.215	0.00	0.24
106.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	0.25
106.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	1.06
106.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.569	0.173	1.218	0.00	0.57
106.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	3.78
106.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	0.81
106.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.569	0.173	1.218	0.00	6.82
106.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.569	0.173	1.218	0.00	0.24
107.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	0.25
107.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	1.06
107.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.649	0.174	1.222	0.00	0.57
107.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	3.78
107.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	0.81
107.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.649	0.174	1.222	0.00	6.82
107.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.649	0.174	1.222	0.00	0.24
108.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	0.25
108.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	1.06
108.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.727	0.175	1.226	0.00	0.57
108.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	3.78
108.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	0.81
108.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.727	0.175	1.226	0.00	6.82
108.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.727	0.175	1.226	0.00	0.24
109.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	0.25
109.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	1.06
109.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.806	0.177	1.230	0.00	0.57
109.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	3.78
109.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	0.81
109.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.806	0.177	1.230	0.00	6.82
109.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.806	0.177	1.230	0.00	0.24
110.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	0.25
110.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	1.06
110.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.884	0.178	1.234	0.00	0.57
110.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	3.78
110.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	0.81
110.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.884	0.178	1.234	0.00	6.82
110.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.884	0.178	1.234	0.00	0.24
110.0	(2) 0.51" Hybrid	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(2) 0.78" 8 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(1) 1 1/4" Coax	Yes	0.00	0.000	1.55	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(4) 1.24" 4 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(6) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(1) 3" Conduit	Yes	0.00	0.000	2.38	0.00	0.00	29.884	0.178	1.235	0.00	0.00
110.0	(6) 5/16" Coax	Yes	0.00	0.000	0.00	0.00	0.00	29.884	0.178	1.235	0.00	0.00
111.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	0.25
111.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	1.06
111.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	29.961	0.179	1.237	0.00	0.57
111.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	3.78
111.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	0.81
111.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	29.961	0.179	1.237	0.00	6.82
111.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	29.961	0.179	1.237	0.00	0.24

Pole :	302482			Code: ANSI/TIA-222 Rev G							11/12/2014 9:57:21 AM	
Location :	North Haven CT 1, CT			Struct Class : II							Page: 57	
Height :	150.0 (ft)			Exposure Category : B								
Base Dia :	37.37 (in)			Topographic Category : 1								
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)								
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

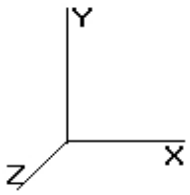
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

112.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	0.25
112.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	1.06
112.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.038	0.180	1.241	0.00	0.57
112.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	3.78
112.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	0.81
112.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.038	0.180	1.241	0.00	6.82
112.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.038	0.180	1.241	0.00	0.24
113.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	0.25
113.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	1.06
113.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.114	0.182	1.246	0.00	0.57
113.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	3.78
113.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	0.81
113.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.114	0.182	1.246	0.00	6.82
113.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.114	0.182	1.246	0.00	0.24
114.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	0.25
114.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	1.06
114.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.190	0.183	1.250	0.00	0.57
114.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	3.78
114.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	0.81
114.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.190	0.183	1.250	0.00	6.82
114.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.190	0.183	1.250	0.00	0.24
115.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	0.25
115.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	1.06
115.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.266	0.185	1.254	0.00	0.57
115.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	3.78
115.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	0.81
115.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.266	0.185	1.254	0.00	6.82
115.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.266	0.185	1.254	0.00	0.24
116.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	0.25
116.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	1.06
116.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.341	0.186	1.258	0.00	0.57
116.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	3.78
116.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	0.81
116.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.341	0.186	1.258	0.00	6.82
116.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.341	0.186	1.258	0.00	0.24
117.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	0.25
117.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	1.06
117.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.415	0.187	1.262	0.00	0.57
117.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	3.78
117.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	0.81
117.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.415	0.187	1.262	0.00	6.82
117.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.415	0.187	1.262	0.00	0.24
118.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	0.25
118.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	1.06
118.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.489	0.189	1.267	0.00	0.57
118.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	3.78
118.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	0.81
118.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.489	0.189	1.267	0.00	6.82
118.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.489	0.189	1.267	0.00	0.24
119.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	0.25
119.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	1.06
119.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.563	0.190	1.271	0.00	0.57
119.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	3.78
119.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	0.81
119.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.563	0.190	1.271	0.00	6.82
119.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.563	0.190	1.271	0.00	0.24
120.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	0.25

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:21 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	58
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

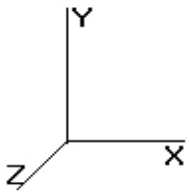
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

120.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	1.06
120.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.636	0.192	1.276	0.00	0.57
120.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	3.78
120.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	0.81
120.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.636	0.192	1.276	0.00	6.82
120.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.636	0.192	1.276	0.00	0.24
121.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	0.25
121.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	1.06
121.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.709	0.193	1.280	0.00	0.57
121.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	3.78
121.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	0.81
121.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.709	0.193	1.280	0.00	6.82
121.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.709	0.193	1.280	0.00	0.24
122.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	0.25
122.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	1.06
122.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.781	0.195	1.285	0.00	0.57
122.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	3.78
122.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	0.81
122.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.781	0.195	1.285	0.00	6.82
122.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.781	0.195	1.285	0.00	0.24
123.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	0.25
123.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	1.06
123.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.853	0.197	1.290	0.00	0.57
123.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	3.78
123.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	0.81
123.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.853	0.197	1.290	0.00	6.82
123.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.853	0.197	1.290	0.00	0.24
124.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	0.25
124.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	1.06
124.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.924	0.198	1.295	0.00	0.57
124.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	3.78
124.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	0.81
124.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.924	0.198	1.295	0.00	6.82
124.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.924	0.198	1.295	0.00	0.24
125.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	0.25
125.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	1.06
125.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	30.995	0.200	1.300	0.00	0.57
125.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	3.78
125.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	0.81
125.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	30.995	0.200	1.300	0.00	6.82
125.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	30.995	0.200	1.300	0.00	0.24
126.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	0.25
126.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	1.06
126.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.066	0.202	0.000	8.47	0.57
126.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	3.78
126.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	0.81
126.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.066	0.202	0.000	13.01	6.82
126.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.066	0.202	0.000	0.00	0.24
127.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	0.25
127.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	1.06
127.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.136	0.203	0.000	8.49	0.57
127.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	3.78
127.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	0.81
127.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.136	0.203	0.000	13.04	6.82
127.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.136	0.203	0.000	0.00	0.24
128.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	0.25
128.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	1.06

Pole :	302482			Code: ANSI/TIA-222 Rev G							11/12/2014 9:57:21 AM	
Location :	North Haven CT 1, CT			Struct Class : II							Page: 59	
Height :	150.0 (ft)			Exposure Category : B								
Base Dia :	37.37 (in)			Topographic Category : 1								
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)								
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

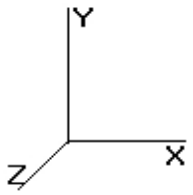
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

128.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.206	0.205	0.000	8.51	0.57
128.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	3.78
128.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	0.81
128.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.206	0.205	0.000	13.07	6.82
128.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.206	0.205	0.000	0.00	0.24
129.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	0.25
129.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	1.06
129.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.276	0.207	0.000	8.53	0.57
129.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	3.78
129.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	0.81
129.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.276	0.207	0.000	13.10	6.82
129.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.276	0.207	0.000	0.00	0.24
130.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	0.25
130.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	1.06
130.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.345	0.208	0.000	8.55	0.57
130.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	3.78
130.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	0.81
130.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.345	0.208	0.000	13.13	6.82
130.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.345	0.208	0.000	0.00	0.24
131.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	0.25
131.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	1.06
131.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.413	0.210	0.000	8.57	0.57
131.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	3.78
131.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	0.81
131.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.413	0.210	0.000	13.16	6.82
131.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.210	0.000	0.00	0.24
132.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	0.25
132.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	1.06
132.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.482	0.212	0.000	8.59	0.57
132.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	3.78
132.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	0.81
132.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.482	0.212	0.000	13.19	6.82
132.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.482	0.212	0.000	0.00	0.24
133.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	0.25
133.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	1.06
133.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.550	0.214	0.000	8.61	0.57
133.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	3.78
133.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	0.81
133.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.550	0.214	0.000	13.22	6.82
133.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.550	0.214	0.000	0.00	0.24
134.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	0.25
134.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	1.06
134.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.617	0.216	0.000	8.63	0.57
134.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	3.78
134.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	0.81
134.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.617	0.216	0.000	13.24	6.82
134.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.617	0.216	0.000	0.00	0.24
135.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	0.25
135.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	1.06
135.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.684	0.218	0.000	8.64	0.57
135.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	3.78
135.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	0.81
135.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.684	0.218	0.000	13.27	6.82
135.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.684	0.218	0.000	0.00	0.24
136.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	0.25
136.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	1.06
136.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.751	0.220	0.000	8.66	0.57

Pole :	302482			Code: ANSI/TIA-222 Rev G							11/12/2014 9:57:22 AM	
Location :	North Haven CT 1, CT			Struct Class : II							Page: 60	
Height :	150.0 (ft)			Exposure Category : B								
Base Dia :	37.37 (in)			Topographic Category : 1								
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)								
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

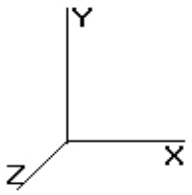
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

136.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	3.78
136.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	0.81
136.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.751	0.220	0.000	13.30	6.82
136.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.220	0.000	0.00	0.24
137.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	0.25
137.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	1.06
137.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.818	0.222	0.000	8.68	0.57
137.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	3.78
137.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	0.81
137.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.818	0.222	0.000	13.33	6.82
137.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.818	0.222	0.000	0.00	0.24
138.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	0.25
138.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	1.06
138.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.884	0.224	0.000	8.70	0.57
138.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	3.78
138.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	0.81
138.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.884	0.224	0.000	13.36	6.82
138.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.884	0.224	0.000	0.00	0.24
139.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	0.25
139.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	1.06
139.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	31.950	0.226	0.000	8.72	0.57
139.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	3.78
139.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	0.81
139.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	31.950	0.226	0.000	13.38	6.82
139.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.950	0.226	0.000	0.00	0.24
140.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	0.25
140.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	1.06
140.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.015	0.228	0.000	8.73	0.57
140.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	3.78
140.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	0.81
140.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.015	0.228	0.000	13.41	6.82
140.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.015	0.228	0.000	0.00	0.24
141.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	0.25
141.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	1.06
141.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.081	0.230	0.000	8.75	0.57
141.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	3.78
141.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	0.81
141.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.081	0.230	0.000	13.44	6.82
141.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.081	0.230	0.000	0.00	0.24
142.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	0.25
142.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	1.06
142.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.145	0.232	0.000	8.77	0.57
142.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	3.78
142.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	0.81
142.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.145	0.232	0.000	13.47	6.82
142.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.145	0.232	0.000	0.00	0.24
143.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	0.25
143.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	1.06
143.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.210	0.235	0.000	8.79	0.57
143.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	3.78
143.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	0.81
143.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.210	0.235	0.000	13.49	6.82
143.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.210	0.235	0.000	0.00	0.24
144.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	0.25
144.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	1.06
144.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.274	0.237	0.000	8.80	0.57
144.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	3.78

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		

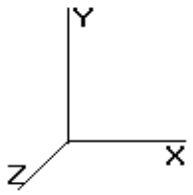


Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

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

144.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	0.81
144.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.274	0.237	0.000	13.52	6.82
144.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.274	0.237	0.000	0.00	0.24
145.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	0.25
145.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	1.06
145.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.338	0.239	0.000	8.82	0.57
145.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	3.78
145.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	0.81
145.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.338	0.239	0.000	13.55	6.82
145.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.338	0.239	0.000	0.00	0.24
146.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	0.25
146.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	1.06
146.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	32.402	0.242	0.000	8.84	0.57
146.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	3.78
146.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	0.81
146.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	32.402	0.242	0.000	13.57	6.82
146.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	32.402	0.242	0.000	0.00	0.24
147.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.465	0.096	0.000	0.00	0.25
147.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.465	0.096	0.000	0.00	1.06
147.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	32.465	0.096	0.000	0.00	0.57
147.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.465	0.096	0.000	0.00	3.78
148.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.528	0.097	0.000	0.00	0.25
148.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.528	0.097	0.000	0.00	1.06
148.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	32.528	0.097	0.000	0.00	0.57
148.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.528	0.097	0.000	0.00	3.78
149.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.590	0.098	0.000	0.00	0.25
149.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.590	0.098	0.000	0.00	1.06
149.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	32.590	0.098	0.000	0.00	0.57
149.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.590	0.098	0.000	0.00	3.78
150.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	32.653	0.099	0.000	0.00	0.25
150.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.653	0.099	0.000	0.00	1.06
150.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	32.653	0.099	0.000	0.00	0.57
150.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	32.653	0.099	0.000	0.00	3.78
										Totals:	**3,670.32**	**1,931.21**

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		

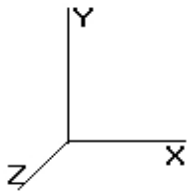


Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

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
1.00	116.66	203.33	0.00	0.00
2.00	116.17	202.76	0.00	0.00
3.00	115.68	202.18	0.00	0.00
4.00	115.19	201.60	0.00	0.00
5.00	114.70	201.02	0.00	0.00
6.00	166.42	225.66	0.00	0.00
7.00	165.83	225.08	0.00	0.00
8.00	165.25	224.51	0.00	0.00
9.00	164.66	223.93	0.00	0.00
10.00	164.07	223.35	0.00	0.00
11.00	163.48	222.77	0.00	0.00
12.00	162.89	222.19	0.00	0.00
12.50	81.23	110.88	0.00	0.00
13.00	81.08	110.73	0.00	0.00
14.00	161.72	221.03	0.00	0.00
15.00	161.13	220.45	0.00	0.00
16.00	160.54	219.87	0.00	0.00
17.00	159.95	219.29	0.00	0.00
18.00	159.36	218.71	0.00	0.00
19.00	158.78	218.13	0.00	0.00
20.00	158.19	217.55	0.00	0.00
21.00	157.60	216.97	0.00	0.00
22.00	157.01	216.39	0.00	0.00
23.00	156.42	215.81	0.00	0.00
24.00	155.84	215.24	0.00	0.00
25.00	155.25	214.66	0.00	0.00
26.00	154.66	214.08	0.00	0.00
27.00	154.07	213.50	0.00	0.00
28.00	153.48	212.92	0.00	0.00
29.00	152.90	212.34	0.00	0.00
30.00	152.43	211.76	0.00	0.00
31.00	153.20	211.18	0.00	0.00
31.50	76.76	105.44	0.00	0.00
32.00	78.03	155.53	0.00	0.00
33.00	157.03	310.47	0.00	0.00
34.00	157.70	309.41	0.00	0.00
35.00	158.33	308.35	0.00	0.00
35.67	105.80	205.08	0.00	0.00
36.00	52.85	63.56	0.00	0.00
37.00	159.49	190.54	0.00	0.00
38.00	160.02	190.06	0.00	0.00
39.00	160.52	189.58	0.00	0.00
40.00	160.99	189.09	0.00	0.00
41.00	161.43	188.61	0.00	0.00
42.00	161.84	188.13	0.00	0.00
43.00	162.23	187.65	0.00	0.00
44.00	162.59	187.16	0.00	0.00
45.00	162.92	186.68	0.00	0.00
46.00	163.23	186.20	0.00	0.00



Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

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

Wind Importance Factor : 1.00

47.00	163.52	185.72	0.00	0.00
48.00	163.78	185.23	0.00	0.00
49.00	164.03	184.75	0.00	0.00
50.00	164.25	184.27	0.00	0.00
51.00	164.45	183.78	0.00	0.00
52.00	164.63	183.30	0.00	0.00
53.00	164.79	182.82	0.00	0.00
54.00	164.93	182.34	0.00	0.00
55.00	165.06	181.85	0.00	0.00
56.00	165.16	181.37	0.00	0.00
57.00	165.25	180.89	0.00	0.00
58.00	165.32	180.40	0.00	0.00
59.00	165.38	179.92	0.00	0.00
60.00	165.42	179.44	0.00	0.00
61.00	165.44	178.96	0.00	0.00
62.00	165.45	178.47	0.00	0.00
63.00	165.44	177.99	0.00	0.00
64.00	165.45	177.51	0.00	0.00
65.00	165.45	177.02	0.00	0.00
66.00	165.43	176.54	0.00	0.00
67.00	165.41	176.06	0.00	0.00
68.00	165.36	175.58	0.00	0.00
69.00	165.31	175.09	0.00	0.00
70.00	165.24	174.61	0.00	0.00
70.00	0.06	0.06	0.00	0.00
71.00	167.50	241.12	0.00	0.00
72.00	167.48	240.33	0.00	0.00
73.00	167.38	239.46	0.00	0.00
73.50	83.62	119.48	0.00	0.00
74.00	83.48	78.87	0.00	0.00
75.00	167.15	157.55	0.00	0.00
76.00	167.01	157.16	0.00	0.00
77.00	166.87	156.78	0.00	0.00
78.00	166.71	156.39	0.00	0.00
79.00	166.54	156.00	0.00	0.00
80.00	166.36	155.62	0.00	0.00
81.00	166.17	155.23	0.00	0.00
82.00	165.97	154.85	0.00	0.00
83.00	165.76	154.46	0.00	0.00
84.00	165.54	154.07	0.00	0.00
85.00	165.31	153.69	0.00	0.00
86.00	165.07	153.30	0.00	0.00
86.50	82.37	76.51	0.00	0.00
87.00	82.31	76.41	0.00	0.00
88.00	164.55	152.53	0.00	0.00
89.00	164.28	152.14	0.00	0.00
90.00	164.00	151.76	0.00	0.00
91.00	163.71	151.37	0.00	0.00
92.00	163.41	150.98	0.00	0.00
93.00	163.11	150.60	0.00	0.00
94.00	162.79	150.21	0.00	0.00
95.00	162.46	149.82	0.00	0.00
95.33	54.01	49.84	0.00	0.00
96.00	108.02	55.06	0.00	0.00
97.00	161.79	82.25	0.00	0.00
98.00	161.44	81.87	0.00	0.00
99.00	161.08	81.48	0.00	0.00

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
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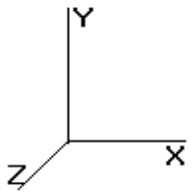

Load Case: **0.9D + 1.6W** — **110.00 mph with No Ice (Reduced DL)** — **36 Iterations**

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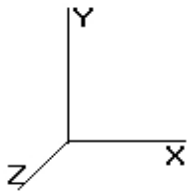
Dead Load Factor : 0.90
Wind Load Factor : 1.60
Wind Importance Factor : 1.00

100.0		160.71	81.09	0.00	0.00
101.0		160.34	80.71	0.00	0.00
102.0		100.35	80.32	0.00	0.00
103.0		99.94	79.94	0.00	0.00
104.0		99.51	79.55	0.00	0.00
105.0		99.08	79.16	0.00	0.00
106.0		98.65	78.78	0.00	0.00
107.0		98.21	78.39	0.00	0.00
108.0		3,389.24	1,674.51	0.00	0.00
109.0		97.31	68.76	0.00	0.00
110.0		96.85	68.38	0.00	0.00
110.0		0.03	0.02	0.00	0.00
111.0		96.36	55.18	0.00	0.00
112.0		95.93	54.91	0.00	0.00
113.0		95.45	54.62	0.00	0.00
114.0		94.98	54.33	0.00	0.00
115.0		94.49	54.04	0.00	0.00
116.0		94.00	53.75	0.00	0.00
117.0		93.51	53.46	0.00	0.00
118.0		93.01	53.17	0.00	0.00
119.0		92.51	52.88	0.00	0.00
120.0		92.00	52.59	0.00	0.00
121.0		91.49	52.30	0.00	0.00
122.0		90.98	52.01	0.00	0.00
123.0		90.45	51.73	0.00	0.00
124.0		89.93	51.44	0.00	0.00
125.0		89.40	51.15	0.00	0.00
126.0		128.12	50.86	0.00	0.00
127.0		127.52	50.57	0.00	0.00
128.0		126.92	50.28	0.00	0.00
129.0		126.31	49.99	0.00	0.00
130.0		125.69	49.70	0.00	0.00
131.0		125.07	49.41	0.00	0.00
132.0		124.44	49.12	0.00	0.00
133.0		123.81	48.83	0.00	0.00
134.0		123.18	48.54	0.00	0.00
135.0		122.53	48.25	0.00	0.00
136.0		121.89	47.96	0.00	0.00
137.0		121.23	47.67	0.00	0.00
138.0		120.57	47.38	0.00	0.00
139.0		119.91	47.09	0.00	0.00
140.0		119.24	46.80	0.00	0.00
141.0		118.57	46.51	0.00	0.00
142.0		117.89	46.22	0.00	0.00
143.0		117.21	45.93	0.00	0.00
144.0		116.52	45.64	0.00	0.00
145.0		115.83	45.35	0.00	0.00
146.0		1,850.06	389.04	0.00	0.00
147.0		76.65	36.90	0.00	0.00
148.0		76.02	36.61	0.00	0.00
149.0		75.39	36.32	0.00	0.00
150.0		5,411.66	3,108.45	0.00	11,966.93
	Totals:	**31,687.80**	**26,669.14**	**0.00**	**11,966.93**

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



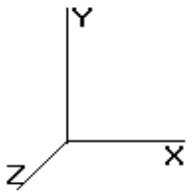
Load Case: **0.9D + 1.6W** **110.00 mph with No Ice (Reduced DL)** **36 Iterations**

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	-26.65	-31.70	0.00	-3,019.00	0.00	3,019.00	3,133.39	1,566.70	4,775.40	2,358.39	0.00	0.00	0.808
1.00	-26.41	-31.62	0.00	-2,987.30	0.00	2,987.30	3,125.01	1,562.51	4,742.26	2,342.02	0.01	-0.07	0.804
2.00	-26.17	-31.53	0.00	-2,955.68	0.00	2,955.68	3,116.59	1,558.30	4,709.17	2,325.68	0.03	-0.14	0.799
3.00	-25.93	-31.45	0.00	-2,924.14	0.00	2,924.14	3,108.13	1,554.07	4,676.12	2,309.36	0.07	-0.21	0.795
4.00	-25.69	-31.36	0.00	-2,892.70	0.00	2,892.70	3,099.63	1,549.81	4,643.13	2,293.07	0.12	-0.27	0.790
5.00	-25.45	-31.28	0.00	-2,861.33	0.00	2,861.33	3,091.08	1,545.54	4,610.18	2,276.80	0.18	-0.34	0.785
6.00	-25.19	-31.14	0.00	-2,830.06	0.00	2,830.06	3,082.50	1,541.25	4,577.28	2,260.55	0.26	-0.41	0.781
7.00	-24.93	-31.00	0.00	-2,798.92	0.00	2,798.92	3,073.87	1,536.93	4,544.44	2,244.33	0.36	-0.48	0.776
8.00	-24.67	-30.86	0.00	-2,767.92	0.00	2,767.92	3,065.20	1,532.60	4,511.64	2,228.13	0.46	-0.55	0.771
9.00	-24.41	-30.73	0.00	-2,737.05	0.00	2,737.05	3,056.49	1,528.24	4,478.89	2,211.96	0.59	-0.62	0.766
10.00	-24.15	-30.59	0.00	-2,706.32	0.00	2,706.32	3,047.73	1,523.87	4,446.20	2,195.81	0.72	-0.69	0.762
11.00	-23.89	-30.45	0.00	-2,675.74	0.00	2,675.74	3,038.94	1,519.47	4,413.57	2,179.69	0.88	-0.75	0.757
12.00	-23.65	-30.31	0.00	-2,645.29	0.00	2,645.29	3,030.10	1,515.05	4,380.98	2,163.60	1.04	-0.82	0.752
12.50	-23.52	-30.24	0.00	-2,630.13	0.00	2,630.13	3,025.67	1,512.83	4,364.71	2,155.57	1.13	-0.86	0.750
12.50	-23.52	-30.24	0.00	-2,630.13	0.00	2,630.13	3,025.67	1,512.83	4,364.71	2,155.57	1.13	-0.86	0.750
13.00	-23.38	-30.18	0.00	-2,615.01	0.00	2,615.01	3,021.22	1,510.61	4,348.46	2,147.54	1.22	-0.89	0.747
14.00	-23.13	-30.04	0.00	-2,584.84	0.00	2,584.84	3,012.30	1,506.15	4,315.98	2,131.50	1.42	-0.96	0.743
15.00	-22.88	-29.90	0.00	-2,554.80	0.00	2,554.80	3,003.34	1,501.67	4,283.57	2,115.49	1.62	-1.03	0.738
16.00	-22.62	-29.76	0.00	-2,524.90	0.00	2,524.90	2,994.34	1,497.17	4,251.21	2,099.51	1.85	-1.10	0.733
17.00	-22.37	-29.63	0.00	-2,495.14	0.00	2,495.14	2,985.30	1,492.65	4,218.92	2,083.56	2.08	-1.16	0.728
18.00	-22.12	-29.49	0.00	-2,465.51	0.00	2,465.51	2,976.21	1,488.11	4,186.68	2,067.64	2.34	-1.23	0.723
19.00	-21.87	-29.35	0.00	-2,436.02	0.00	2,436.02	2,967.08	1,483.54	4,154.50	2,051.75	2.60	-1.30	0.718
20.00	-21.62	-29.21	0.00	-2,406.67	0.00	2,406.67	2,957.91	1,478.96	4,122.38	2,035.89	2.88	-1.37	0.713
21.00	-21.38	-29.08	0.00	-2,377.46	0.00	2,377.46	2,948.70	1,474.35	4,090.33	2,020.06	3.18	-1.44	0.709
22.00	-21.13	-28.94	0.00	-2,348.39	0.00	2,348.39	2,939.45	1,469.73	4,058.33	2,004.26	3.49	-1.51	0.704
23.00	-20.88	-28.80	0.00	-2,319.45	0.00	2,319.45	2,930.16	1,465.08	4,026.41	1,988.49	3.81	-1.57	0.699
24.00	-20.64	-28.66	0.00	-2,290.65	0.00	2,290.65	2,920.82	1,460.41	3,994.54	1,972.75	4.15	-1.64	0.694
25.00	-20.40	-28.53	0.00	-2,261.99	0.00	2,261.99	2,911.45	1,455.72	3,962.74	1,957.05	4.50	-1.71	0.689
26.00	-20.15	-28.39	0.00	-2,233.46	0.00	2,233.46	2,902.03	1,451.01	3,931.01	1,941.38	4.86	-1.78	0.684
27.00	-19.91	-28.25	0.00	-2,205.07	0.00	2,205.07	2,892.57	1,446.28	3,899.34	1,925.74	5.24	-1.84	0.679
28.00	-19.67	-28.11	0.00	-2,176.82	0.00	2,176.82	2,883.07	1,441.53	3,867.74	1,910.13	5.64	-1.91	0.674
29.00	-19.43	-27.98	0.00	-2,148.71	0.00	2,148.71	2,873.52	1,436.76	3,836.21	1,894.56	6.04	-1.98	0.669
30.00	-19.19	-27.84	0.00	-2,120.73	0.00	2,120.73	2,863.94	1,431.97	3,804.75	1,879.02	6.47	-2.05	0.664
31.00	-18.96	-27.70	0.00	-2,092.89	0.00	2,092.89	2,854.31	1,427.16	3,773.36	1,863.52	6.90	-2.11	0.659
31.50	-18.84	-27.63	0.00	-2,079.03	0.00	2,079.03	2,849.48	1,424.74	3,757.68	1,855.78	7.13	-2.15	0.656
32.00	-18.67	-27.56	0.00	-2,065.23	0.00	2,065.23	2,844.65	1,422.32	3,742.04	1,848.05	7.35	-2.18	0.645
33.00	-18.33	-27.41	0.00	-2,037.67	0.00	2,037.67	2,833.03	1,416.51	3,708.29	1,831.38	7.82	-2.25	0.640
34.00	-18.00	-27.26	0.00	-2,010.26	0.00	2,010.26	2,819.08	1,409.54	3,671.66	1,813.30	8.30	-2.31	0.636
35.00	-17.67	-27.11	0.00	-1,983.00	0.00	1,983.00	2,805.14	1,402.57	3,635.22	1,795.30	8.79	-2.38	0.632
35.67	-17.45	-27.00	0.00	-1,964.92	0.00	1,964.92	2,230.91	1,115.46	2,950.86	1,457.32	9.12	-2.42	0.730
36.00	-17.37	-26.96	0.00	-1,955.92	0.00	1,955.92	2,228.70	1,114.35	2,943.10	1,453.48	9.29	-2.45	0.728
37.00	-17.15	-26.82	0.00	-1,928.96	0.00	1,928.96	2,222.04	1,111.02	2,919.81	1,441.99	9.81	-2.52	0.722
38.00	-16.94	-26.67	0.00	-1,902.15	0.00	1,902.15	2,215.33	1,107.67	2,896.56	1,430.50	10.35	-2.59	0.715
39.00	-16.72	-26.52	0.00	-1,875.48	0.00	1,875.48	2,208.58	1,104.29	2,873.35	1,419.04	10.90	-2.66	0.709
40.00	-16.51	-26.37	0.00	-1,848.96	0.00	1,848.96	2,201.80	1,100.90	2,850.16	1,407.59	11.46	-2.73	0.702
41.00	-16.30	-26.22	0.00	-1,822.59	0.00	1,822.59	2,194.97	1,097.48	2,827.01	1,396.16	12.04	-2.80	0.696
42.00	-16.09	-26.07	0.00	-1,796.37	0.00	1,796.37	2,188.09	1,094.05	2,803.90	1,384.74	12.64	-2.87	0.689
43.00	-15.88	-25.92	0.00	-1,770.30	0.00	1,770.30	2,181.18	1,090.59	2,780.83	1,373.35	13.24	-2.93	0.682
44.00	-15.67	-25.76	0.00	-1,744.39	0.00	1,744.39	2,174.23	1,087.11	2,757.79	1,361.97	13.87	-3.00	0.676
45.00	-15.46	-25.61	0.00	-1,718.62	0.00	1,718.62	2,167.23	1,083.61	2,734.79	1,350.61	14.50	-3.07	0.669
46.00	-15.25	-25.45	0.00	-1,693.02	0.00	1,693.02	2,160.19	1,080.10	2,711.83	1,339.27	15.15	-3.14	0.663

Pole :	302482	Code:	ANSI/TIA-222 Rev G
Location :	North Haven CT 1, CT	Struct Class :	II
Height :	150.0 (ft)	Exposure Category :	B
Base Dia :	37.37 (in)	Topographic Category :	1
Top Dia :	15.00 (in)	Base Elev :	0.000 (ft)
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		

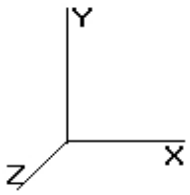


Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

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

47.00	-15.04	-25.30	0.00	-1,667.56	0.00	1,667.56	2,153.11	1,076.56	2,688.91	1,327.95	15.82	-3.21	0.656
48.00	-14.84	-25.14	0.00	-1,642.26	0.00	1,642.26	2,145.99	1,073.00	2,666.03	1,316.65	16.50	-3.28	0.649
49.00	-14.63	-24.98	0.00	-1,617.12	0.00	1,617.12	2,138.83	1,069.41	2,643.19	1,305.37	17.19	-3.35	0.643
50.00	-14.43	-24.83	0.00	-1,592.14	0.00	1,592.14	2,131.62	1,065.81	2,620.39	1,294.11	17.90	-3.41	0.636
51.00	-14.23	-24.67	0.00	-1,567.31	0.00	1,567.31	2,124.38	1,062.19	2,597.64	1,282.88	18.62	-3.48	0.630
52.00	-14.03	-24.51	0.00	-1,542.64	0.00	1,542.64	2,117.09	1,058.55	2,574.93	1,271.66	19.36	-3.55	0.623
53.00	-13.83	-24.35	0.00	-1,518.14	0.00	1,518.14	2,109.76	1,054.88	2,552.26	1,260.47	20.11	-3.62	0.616
54.00	-13.63	-24.19	0.00	-1,493.79	0.00	1,493.79	2,102.39	1,051.20	2,529.64	1,249.30	20.87	-3.68	0.610
55.00	-13.43	-24.03	0.00	-1,469.60	0.00	1,469.60	2,094.98	1,047.49	2,507.07	1,238.15	21.65	-3.75	0.603
56.00	-13.23	-23.87	0.00	-1,445.57	0.00	1,445.57	2,087.53	1,043.76	2,484.55	1,227.02	22.44	-3.81	0.596
57.00	-13.03	-23.70	0.00	-1,421.70	0.00	1,421.70	2,080.03	1,040.02	2,462.07	1,215.92	23.25	-3.88	0.590
58.00	-12.84	-23.54	0.00	-1,398.00	0.00	1,398.00	2,072.49	1,036.25	2,439.64	1,204.85	24.07	-3.95	0.583
59.00	-12.64	-23.38	0.00	-1,374.46	0.00	1,374.46	2,064.92	1,032.46	2,417.26	1,193.79	24.90	-4.01	0.576
60.00	-12.45	-23.22	0.00	-1,351.08	0.00	1,351.08	2,057.30	1,028.65	2,394.93	1,182.77	25.75	-4.08	0.569
61.00	-12.26	-23.05	0.00	-1,327.86	0.00	1,327.86	2,049.63	1,024.82	2,372.65	1,171.76	26.61	-4.14	0.563
62.00	-12.06	-22.89	0.00	-1,304.81	0.00	1,304.81	2,041.93	1,020.97	2,350.43	1,160.79	27.48	-4.21	0.556
63.00	-11.87	-22.72	0.00	-1,281.92	0.00	1,281.92	2,034.19	1,017.09	2,328.25	1,149.84	28.37	-4.27	0.549
64.00	-11.68	-22.56	0.00	-1,259.20	0.00	1,259.20	2,026.40	1,013.20	2,306.13	1,138.91	29.27	-4.33	0.543
65.00	-11.50	-22.39	0.00	-1,236.64	0.00	1,236.64	2,018.57	1,009.29	2,284.07	1,128.02	30.19	-4.40	0.536
66.00	-11.31	-22.23	0.00	-1,214.25	0.00	1,214.25	2,010.70	1,005.35	2,262.06	1,117.15	31.11	-4.46	0.529
67.00	-11.12	-22.06	0.00	-1,192.03	0.00	1,192.03	2,002.79	1,001.40	2,240.11	1,106.30	32.06	-4.52	0.522
68.00	-10.94	-21.89	0.00	-1,169.97	0.00	1,169.97	1,994.84	997.42	2,218.21	1,095.49	33.01	-4.59	0.516
69.00	-10.75	-21.72	0.00	-1,148.08	0.00	1,148.08	1,986.85	993.42	2,196.37	1,084.71	33.98	-4.65	0.509
70.00	-10.58	-21.55	0.00	-1,126.35	0.00	1,126.35	1,978.81	989.40	2,174.59	1,073.95	34.96	-4.71	0.502
70.00	-10.57	-21.56	0.00	-1,126.35	0.00	1,126.35	1,978.81	989.40	2,174.58	1,073.95	34.96	-4.71	0.502
71.00	-10.32	-21.38	0.00	-1,104.80	0.00	1,104.80	1,970.29	985.14	2,152.38	1,062.98	35.95	-4.77	0.488
72.00	-10.07	-21.20	0.00	-1,083.42	0.00	1,083.42	1,958.67	979.33	2,126.92	1,050.41	36.95	-4.83	0.482
73.00	-9.83	-21.03	0.00	-1,062.21	0.00	1,062.21	1,947.05	973.52	2,101.61	1,037.91	37.97	-4.89	0.476
73.50	-9.71	-20.94	0.00	-1,051.69	0.00	1,051.69	1,462.56	731.28	1,611.85	796.03	38.49	-4.92	0.561
74.00	-9.62	-20.85	0.00	-1,041.23	0.00	1,041.23	1,460.05	730.02	1,604.32	792.31	39.00	-4.95	0.556
75.00	-9.45	-20.69	0.00	-1,020.38	0.00	1,020.38	1,454.98	727.49	1,589.27	784.88	40.05	-5.02	0.548
76.00	-9.29	-20.52	0.00	-999.69	0.00	999.69	1,449.87	724.94	1,574.24	777.46	41.10	-5.08	0.539
77.00	-9.12	-20.34	0.00	-979.18	0.00	979.18	1,444.73	722.36	1,559.24	770.05	42.17	-5.14	0.531
78.00	-8.96	-20.17	0.00	-958.83	0.00	958.83	1,439.54	719.77	1,544.25	762.65	43.25	-5.20	0.522
79.00	-8.80	-20.00	0.00	-938.66	0.00	938.66	1,434.31	717.15	1,529.29	755.26	44.35	-5.26	0.514
80.00	-8.64	-19.83	0.00	-918.65	0.00	918.65	1,429.03	714.52	1,514.36	747.88	45.46	-5.33	0.505
81.00	-8.48	-19.66	0.00	-898.82	0.00	898.82	1,423.72	711.86	1,499.45	740.52	46.58	-5.39	0.497
82.00	-8.32	-19.49	0.00	-879.16	0.00	879.16	1,418.36	709.18	1,484.56	733.17	47.71	-5.45	0.488
83.00	-8.16	-19.32	0.00	-859.67	0.00	859.67	1,412.96	706.48	1,469.70	725.83	48.86	-5.50	0.480
84.00	-8.01	-19.15	0.00	-840.35	0.00	840.35	1,407.53	703.76	1,454.87	718.51	50.02	-5.56	0.471
85.00	-7.85	-18.98	0.00	-821.20	0.00	821.20	1,402.05	701.02	1,440.07	711.20	51.19	-5.62	0.463
86.00	-7.70	-18.80	0.00	-802.23	0.00	802.23	1,396.52	698.26	1,425.29	703.90	52.37	-5.68	0.454
86.50	-7.62	-18.72	0.00	-792.83	0.00	792.83	1,393.75	696.87	1,417.92	700.26	52.96	-5.71	0.450
86.50	-7.62	-18.72	0.00	-792.83	0.00	792.83	1,393.75	696.87	1,417.92	700.26	52.96	-5.71	0.450
87.00	-7.54	-18.63	0.00	-783.47	0.00	783.47	1,390.96	695.48	1,410.55	696.62	53.56	-5.74	0.446
88.00	-7.39	-18.46	0.00	-764.83	0.00	764.83	1,385.35	692.68	1,395.84	689.35	54.77	-5.79	0.437
89.00	-7.24	-18.29	0.00	-746.37	0.00	746.37	1,379.71	689.85	1,381.15	682.10	55.99	-5.85	0.429
90.00	-7.08	-18.12	0.00	-728.08	0.00	728.08	1,374.02	687.01	1,366.50	674.86	57.22	-5.90	0.421
91.00	-6.93	-17.95	0.00	-709.97	0.00	709.97	1,368.29	684.14	1,351.89	667.65	58.46	-5.96	0.412
92.00	-6.78	-17.77	0.00	-692.02	0.00	692.02	1,362.52	681.26	1,337.30	660.44	59.71	-6.01	0.404
93.00	-6.64	-17.60	0.00	-674.25	0.00	674.25	1,356.70	678.35	1,322.75	653.26	60.97	-6.07	0.395
94.00	-6.49	-17.43	0.00	-656.65	0.00	656.65	1,350.85	675.42	1,308.24	646.09	62.25	-6.12	0.387
95.00	-6.35	-17.26	0.00	-639.22	0.00	639.22	1,344.95	672.48	1,293.77	638.94	63.53	-6.17	0.379
95.33	-6.29	-17.20	0.00	-633.47	0.00	633.47	1,342.98	671.49	1,288.95	636.56	63.96	-6.19	0.376
95.33	-6.29	-17.20	0.00	-633.47	0.00	633.47	1,342.98	671.49	1,288.95	636.56	63.96	-6.19	1.000
96.00	-6.23	-17.10	0.00	-622.00	0.00	622.00	1,339.02	669.51	1,279.33	631.81	64.83	-6.22	0.990
97.00	-6.12	-16.94	0.00	-604.90	0.00	604.90	1,333.04	666.52	1,264.93	624.70	66.14	-6.36	0.974

Pole :	302482		Code: ANSI/TIA-222 Rev G		11/12/2014 9:57:22 AM
Location :	North Haven CT 1, CT		Struct Class : II		Page: 67
Height :	150.0 (ft)		Exposure Category : B		
Base Dia :	37.37 (in)		Topographic Category : 1		
Top Dia :	15.00 (in)		Base Elev : 0.000 (ft)		
Shape :	12 Sides				
Taper :	0.156666 (in/ft)				

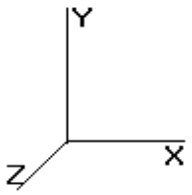


Load Case: 0.9D + 1.6W — 110.00 mph with No Ice (Reduced DL) — 36 Iterations

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

98.00	-6.02	-16.79	0.00	-587.96	0.00	587.96	1,327.01	663.51	1,250.56	617.61	67.49	-6.49	0.957
99.00	-5.92	-16.63	0.00	-571.18	0.00	571.18	1,320.95	660.48	1,236.24	610.53	68.86	-6.63	0.941
100.00	-5.82	-16.47	0.00	-554.55	0.00	554.55	1,314.85	657.42	1,221.96	603.48	70.26	-6.76	0.924
101.00	-5.72	-16.32	0.00	-538.07	0.00	538.07	1,308.70	654.35	1,207.72	596.45	71.69	-6.89	0.907
102.00	-5.62	-16.22	0.00	-521.75	0.00	521.75	1,302.51	651.26	1,193.52	589.43	73.14	-7.02	0.890
103.00	-5.51	-16.13	0.00	-505.53	0.00	505.53	1,296.29	648.14	1,179.36	582.44	74.62	-7.15	0.873
104.00	-5.41	-16.03	0.00	-489.41	0.00	489.41	1,290.02	645.01	1,165.25	575.47	76.13	-7.28	0.855
105.00	-5.31	-15.93	0.00	-473.38	0.00	473.38	1,283.70	641.85	1,151.18	568.52	77.66	-7.40	0.837
106.00	-5.21	-15.83	0.00	-457.45	0.00	457.45	1,277.35	638.67	1,137.16	561.60	79.22	-7.53	0.819
107.00	-5.11	-15.74	0.00	-441.61	0.00	441.61	1,270.95	635.48	1,123.18	554.70	80.81	-7.65	0.801
108.00	-3.88	-12.16	0.00	-425.88	0.00	425.88	1,264.52	632.26	1,109.25	547.82	82.42	-7.77	0.781
109.00	-3.80	-12.07	0.00	-413.71	0.00	413.71	1,256.36	628.18	1,093.90	540.24	84.06	-7.89	0.769
110.00	-3.74	-11.96	0.00	-401.65	0.00	401.65	1,247.06	623.53	1,077.68	532.23	85.72	-8.01	0.758
110.00	-3.72	-11.97	0.00	-401.64	0.00	401.64	1,247.06	623.53	1,077.67	532.22	85.72	-8.01	0.758
110.00	-3.72	-11.97	0.00	-401.64	0.00	401.64	846.51	423.26	735.89	363.43	85.72	-8.01	1.110
111.00	-3.65	-11.87	0.00	-389.68	0.00	389.68	843.00	421.50	727.35	359.21	87.40	-8.13	1.090
112.00	-3.58	-11.78	0.00	-377.81	0.00	377.81	839.44	419.72	718.80	354.99	89.11	-8.28	1.069
113.00	-3.51	-11.69	0.00	-366.03	0.00	366.03	835.84	417.92	710.28	350.78	90.86	-8.44	1.048
114.00	-3.44	-11.59	0.00	-354.34	0.00	354.34	832.20	416.10	701.76	346.57	92.64	-8.59	1.027
115.00	-3.37	-11.50	0.00	-342.75	0.00	342.75	828.52	414.26	693.25	342.37	94.45	-8.74	1.006
116.00	-3.30	-11.41	0.00	-331.25	0.00	331.25	824.80	412.40	684.76	338.18	96.29	-8.89	0.984
117.00	-3.24	-11.32	0.00	-319.84	0.00	319.84	821.03	410.52	676.28	333.99	98.16	-9.03	0.962
118.00	-3.17	-11.22	0.00	-308.52	0.00	308.52	817.23	408.61	667.82	329.81	100.06	-9.18	0.940
119.00	-3.10	-11.13	0.00	-297.30	0.00	297.30	813.38	406.69	659.38	325.64	101.99	-9.32	0.918
120.00	-3.04	-11.04	0.00	-286.16	0.00	286.16	809.49	404.75	650.95	321.48	103.94	-9.46	0.895
121.00	-2.98	-10.95	0.00	-275.12	0.00	275.12	805.56	402.78	642.54	317.32	105.93	-9.60	0.871
122.00	-2.92	-10.86	0.00	-264.18	0.00	264.18	801.59	400.79	634.14	313.18	107.95	-9.74	0.848
123.00	-2.86	-10.77	0.00	-253.32	0.00	253.32	797.57	398.79	625.77	309.04	110.00	-9.88	0.824
124.00	-2.80	-10.68	0.00	-242.55	0.00	242.55	793.52	396.76	617.41	304.92	112.07	-10.01	0.800
125.00	-2.74	-10.58	0.00	-231.88	0.00	231.88	789.42	394.71	609.08	300.80	114.17	-10.14	0.775
126.00	-2.69	-10.46	0.00	-221.29	0.00	221.29	785.28	392.64	600.77	296.70	116.30	-10.27	0.750
127.00	-2.64	-10.33	0.00	-210.84	0.00	210.84	781.10	390.55	592.48	292.60	118.45	-10.39	0.725
128.00	-2.59	-10.20	0.00	-200.51	0.00	200.51	776.88	388.44	584.21	288.52	120.63	-10.51	0.699
129.00	-2.54	-10.07	0.00	-190.31	0.00	190.31	772.61	386.31	575.97	284.45	122.83	-10.63	0.673
130.00	-2.50	-9.94	0.00	-180.25	0.00	180.25	768.31	384.15	567.75	280.39	125.05	-10.75	0.647
131.00	-2.45	-9.81	0.00	-170.30	0.00	170.30	763.96	381.98	559.56	276.35	127.30	-10.86	0.620
132.00	-2.41	-9.69	0.00	-160.49	0.00	160.49	759.57	379.79	551.40	272.31	129.58	-10.97	0.593
133.00	-2.37	-9.56	0.00	-150.80	0.00	150.80	755.14	377.57	543.26	268.29	131.87	-11.07	0.566
134.00	-2.33	-9.43	0.00	-141.24	0.00	141.24	750.67	375.34	535.15	264.29	134.19	-11.17	0.538
135.00	-2.29	-9.31	0.00	-131.81	0.00	131.81	746.16	373.08	527.07	260.30	136.52	-11.27	0.510
136.00	-2.25	-9.18	0.00	-122.50	0.00	122.50	741.60	370.80	519.02	256.32	138.88	-11.36	0.482
137.00	-2.22	-9.06	0.00	-113.31	0.00	113.31	737.01	368.50	511.00	252.36	141.25	-11.45	0.453
138.00	-2.18	-8.93	0.00	-104.25	0.00	104.25	732.37	366.18	503.01	248.42	143.64	-11.53	0.423
139.00	-2.15	-8.81	0.00	-95.32	0.00	95.32	727.69	363.84	495.05	244.49	146.05	-11.61	0.393
140.00	-2.12	-8.69	0.00	-86.51	0.00	86.51	722.97	361.48	487.13	240.57	148.48	-11.69	0.363
141.00	-2.08	-8.56	0.00	-77.82	0.00	77.82	718.21	359.10	479.24	236.68	150.92	-11.76	0.332
142.00	-2.05	-8.44	0.00	-69.26	0.00	69.26	713.40	356.70	471.38	232.80	153.37	-11.82	0.301
143.00	-2.03	-8.32	0.00	-60.82	0.00	60.82	708.00	354.00	463.20	228.76	155.83	-11.88	0.269
144.00	-2.00	-8.20	0.00	-52.50	0.00	52.50	701.03	350.51	454.07	224.25	158.31	-11.93	0.238
145.00	-1.97	-8.08	0.00	-44.30	0.00	44.30	694.06	347.03	445.03	219.78	160.80	-11.98	0.205
146.00	-1.97	-6.19	0.00	-36.23	0.00	36.23	687.08	343.54	436.08	215.36	163.29	-12.02	0.171
147.00	-1.95	-6.11	0.00	-30.04	0.00	30.04	680.11	340.06	427.22	210.99	165.79	-12.05	0.146
148.00	-1.93	-6.02	0.00	-23.93	0.00	23.93	673.14	336.57	418.46	206.66	168.30	-12.08	0.119
149.00	-1.90	-5.94	0.00	-17.91	0.00	17.91	666.17	333.08	409.78	202.37	170.82	-12.10	0.092
150.00	0.00	-5.41	0.00	-11.97	0.00	11.97	659.20	329.60	401.19	198.13	173.33	-12.12	0.061

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:22 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 68
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

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

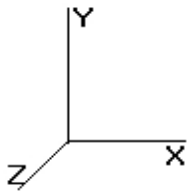
Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

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	0.70	4.256	4.682	0.000	1.200		0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.057	1.00	3.394	4.07	19.1	52.4	301.3
2.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.133	1.00	3.393	4.07	19.1	56.1	304.1
3.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.180	1.00	3.387	4.06	19.0	58.2	305.5
4.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.215	1.00	3.380	4.06	19.0	59.7	306.2
5.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.242	1.00	3.371	4.04	18.9	60.9	306.6
6.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.265	1.00	3.361	4.03	18.9	61.7	306.7
7.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.285	1.00	3.351	4.02	18.8	62.5	306.7
8.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.302	1.00	3.340	4.01	18.8	63.1	306.5
9.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.317	1.00	3.329	3.99	18.7	63.6	306.3
10.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.331	1.00	3.318	3.98	18.6	64.0	305.9
11.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.344	1.00	3.307	3.97	18.6	64.4	305.5
12.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.356	1.00	3.295	3.95	18.5	64.7	305.0
12.50	Reinf. Top Reinf Bottom	1.00	0.70	4.256	4.682	0.000	1.200	*	1.361	0.50	1.643	1.97	9.2	32.4	152.3
13.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.367	0.50	1.640	1.97	9.2	32.5	152.2
14.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.377	1.00	3.271	3.93	18.4	65.2	304.0
15.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.386	1.00	3.260	3.91	18.3	65.4	303.4
16.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.395	1.00	3.247	3.90	18.2	65.5	302.8
17.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.404	1.00	3.235	3.88	18.2	65.6	302.1
18.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.412	1.00	3.223	3.87	18.1	65.7	301.5
19.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.419	1.00	3.211	3.85	18.0	65.8	300.8
20.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.427	1.00	3.199	3.84	18.0	65.9	300.1
21.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.434	1.00	3.186	3.82	17.9	65.9	299.3
22.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.440	1.00	3.174	3.81	17.8	66.0	298.6
23.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.447	1.00	3.161	3.79	17.8	66.0	297.8
24.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.453	1.00	3.149	3.78	17.7	66.0	297.0
25.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.459	1.00	3.136	3.76	17.6	65.9	296.3
26.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.465	1.00	3.124	3.75	17.5	65.9	295.5
27.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.470	1.00	3.111	3.73	17.5	65.9	294.6
28.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.476	1.00	3.099	3.72	17.4	65.8	293.8
29.00		1.00	0.70	4.256	4.682	0.000	1.200	*	1.481	1.00	3.086	3.70	17.3	65.8	293.0
30.00		1.00	0.70	4.260	4.686	0.000	1.200	*	1.486	1.00	3.073	3.69	17.3	65.7	292.1
31.00		1.00	0.70	4.300	4.730	0.000	1.200	*	1.491	1.00	3.061	3.67	17.4	65.6	291.3
31.50	Bot - Section 2	1.00	0.71	4.319	4.751	0.000	1.200	*	1.493	0.50	1.526	1.83	8.7	32.8	145.4
32.00		1.00	0.71	4.339	4.773	0.000	1.200	*	1.495	0.50	1.548	1.86	8.9	33.4	212.8
33.00		1.00	0.72	4.377	4.815	0.000	1.200	*	1.500	1.00	3.089	3.71	17.8	66.7	424.7
34.00		1.00	0.72	4.415	4.856	0.000	1.200	*	1.504	1.00	3.076	3.69	17.9	66.6	423.2
35.00		1.00	0.73	4.451	4.897	0.000	1.200	*	1.509	1.00	3.064	3.68	18.0	66.5	421.7
35.67	Top - Section 1	1.00	0.73	4.475	4.923	0.000	1.200	*	1.512	0.67	2.036	2.44	12.0	44.3	280.4
36.00		1.00	0.73	4.487	4.936	0.000	1.200	*	1.513	0.33	1.014	1.22	6.0	22.1	88.2
37.00		1.00	0.74	4.523	4.975	0.000	1.200	*	1.517	1.00	3.038	3.65	18.1	66.2	264.4
38.00		1.00	0.75	4.557	5.013	0.000	1.200	*	1.521	1.00	3.025	3.63	18.2	66.1	263.6
39.00		1.00	0.75	4.591	5.050	0.000	1.200	*	1.525	1.00	3.012	3.61	18.3	66.0	262.8
40.00		1.00	0.76	4.625	5.087	0.000	1.200	*	1.529	1.00	2.999	3.60	18.3	65.8	262.1
41.00		1.00	0.76	4.657	5.123	0.000	1.200	*	1.533	1.00	2.986	3.58	18.4	65.7	261.3
42.00		1.00	0.77	4.689	5.158	0.000	1.200	*	1.537	1.00	2.974	3.57	18.4	65.5	260.5
43.00		1.00	0.77	4.721	5.193	0.000	1.200	*	1.540	1.00	2.961	3.55	18.5	65.4	259.7
44.00		1.00	0.78	4.752	5.227	0.000	1.200	*	1.544	1.00	2.948	3.54	18.5	65.2	258.9
45.00		1.00	0.78	4.783	5.261	0.000	1.200	*	1.547	1.00	2.935	3.52	18.5	65.1	258.1
46.00		1.00	0.79	4.813	5.294	0.000	1.200	*	1.551	1.00	2.922	3.51	18.6	64.9	257.3
47.00		1.00	0.79	4.843	5.327	0.000	1.200	*	1.554	1.00	2.909	3.49	18.6	64.7	256.5

Pole :	302482	Code: ANSI/TIA-222 Rev G			11/12/2014 9:57:22 AM
Location :	North Haven CT 1, CT	Struct Class : II			Page: 69
Height :	150.0 (ft)	Exposure Category : B			
Base Dia :	37.37 (in)	Topographic Category : 1			
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)			
Shape :	12 Sides				
Taper :	0.156666 (in/ft)				



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

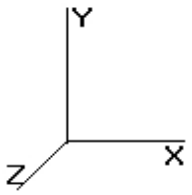
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

48.00		1.00	0.80	4.872	5.359	0.000	1.200 *	1.557	1.00	2.896	3.48	18.6	64.6	255.6
49.00		1.00	0.80	4.901	5.391	0.000	1.200 *	1.560	1.00	2.883	3.46	18.6	64.4	254.8
50.00		1.00	0.81	4.929	5.422	0.000	1.200 *	1.564	1.00	2.870	3.44	18.7	64.2	254.0
51.00		1.00	0.81	4.957	5.453	0.000	1.200 *	1.567	1.00	2.857	3.43	18.7	64.0	253.2
52.00		1.00	0.82	4.984	5.483	0.000	1.200 *	1.570	1.00	2.844	3.41	18.7	63.8	252.3
53.00		1.00	0.82	5.012	5.513	0.000	1.200 *	1.573	1.00	2.831	3.40	18.7	63.6	251.5
54.00		1.00	0.82	5.039	5.542	0.000	1.200 *	1.576	1.00	2.818	3.38	18.7	63.5	250.7
55.00		1.00	0.83	5.065	5.572	0.000	1.200 *	1.579	1.00	2.805	3.37	18.8	63.3	249.8
56.00		1.00	0.83	5.091	5.600	0.000	1.200 *	1.581	1.00	2.792	3.35	18.8	63.1	249.0
57.00		1.00	0.84	5.117	5.629	0.000	1.200 *	1.584	1.00	2.779	3.33	18.8	62.8	248.1
58.00		1.00	0.84	5.142	5.657	0.000	1.200 *	1.587	1.00	2.766	3.32	18.8	62.6	247.3
59.00		1.00	0.85	5.168	5.684	0.000	1.200 *	1.590	1.00	2.753	3.30	18.8	62.4	246.4
60.00		1.00	0.85	5.193	5.712	0.000	1.200 *	1.592	1.00	2.740	3.29	18.8	62.2	245.6
61.00		1.00	0.85	5.217	5.739	0.000	1.200 *	1.595	1.00	2.726	3.27	18.8	62.0	244.7
62.00		1.00	0.86	5.241	5.766	0.000	1.200 *	1.598	1.00	2.713	3.26	18.8	61.8	243.8
63.00		1.00	0.86	5.265	5.792	0.000	1.200 *	1.600	1.00	2.700	3.24	18.8	61.6	243.0
64.00		1.00	0.87	5.289	5.818	0.000	1.200 *	1.603	1.00	2.687	3.22	18.8	61.3	242.1
65.00		1.00	0.87	5.313	5.844	0.000	1.200 *	1.605	1.00	2.674	3.21	18.8	61.1	241.2
66.00		1.00	0.87	5.336	5.869	0.000	1.200 *	1.608	1.00	2.661	3.19	18.7	60.9	240.4
67.00		1.00	0.88	5.359	5.895	0.000	1.200 *	1.610	1.00	2.648	3.18	18.7	60.7	239.5
68.00		1.00	0.88	5.382	5.920	0.000	1.200 *	1.612	1.00	2.635	3.16	18.7	60.4	238.6
69.00		1.00	0.88	5.404	5.944	0.000	1.200 *	1.615	1.00	2.622	3.15	18.7	60.2	237.7
70.00		1.00	0.89	5.426	5.969	0.000	1.200 *	1.617	1.00	2.609	3.13	18.7	59.9	236.9
70.00	Bot - Section 3	1.00	0.89	5.426	5.969	0.000	1.200 *	1.617	0.00	0.001	0.00	0.0	0.0	0.1
71.00		1.00	0.89	5.448	5.993	0.000	1.200 *	1.619	1.00	2.638	3.17	19.0	60.7	326.3
72.00		1.00	0.90	5.470	6.017	0.000	1.200 *	1.622	1.00	2.625	3.15	19.0	60.5	325.1
73.00		1.00	0.90	5.492	6.041	0.000	1.200 *	1.624	1.00	2.612	3.13	18.9	60.3	323.7
73.50	Top - Section 2	1.00	0.90	5.502	6.053	0.000	1.200 *	1.625	0.50	1.302	1.56	9.5	30.1	161.4
74.00		1.00	0.90	5.513	6.064	0.000	1.200 *	1.626	0.50	1.297	1.56	9.4	30.0	107.2
75.00		1.00	0.91	5.534	6.088	0.000	1.200 *	1.628	1.00	2.586	3.10	18.9	59.8	214.0
76.00		1.00	0.91	5.555	6.111	0.000	1.200 *	1.631	1.00	2.573	3.09	18.9	59.5	213.2
77.00		1.00	0.91	5.576	6.134	0.000	1.200 *	1.633	1.00	2.560	3.07	18.8	59.3	212.4
78.00		1.00	0.92	5.597	6.156	0.000	1.200 *	1.635	1.00	2.546	3.06	18.8	59.0	211.7
79.00		1.00	0.92	5.617	6.179	0.000	1.200 *	1.637	1.00	2.533	3.04	18.8	58.8	210.9
80.00		1.00	0.92	5.637	6.201	0.000	1.200 *	1.639	1.00	2.520	3.02	18.8	58.5	210.1
81.00		1.00	0.93	5.657	6.223	0.000	1.200 *	1.641	1.00	2.507	3.01	18.7	58.3	209.4
82.00		1.00	0.93	5.677	6.245	0.000	1.200 *	1.643	1.00	2.494	2.99	18.7	58.0	208.6
83.00		1.00	0.93	5.697	6.267	0.000	1.200 *	1.645	1.00	2.481	2.98	18.7	57.8	207.8
84.00		1.00	0.94	5.716	6.288	0.000	1.200 *	1.647	1.00	2.467	2.96	18.6	57.5	207.0
85.00		1.00	0.94	5.736	6.309	0.000	1.200 *	1.649	1.00	2.454	2.95	18.6	57.2	206.3
86.00		1.00	0.94	5.755	6.331	0.000	1.200 *	1.651	1.00	2.441	2.93	18.5	57.0	205.5
86.50	Reinf. Top Reinf Bottom	1.00	0.94	5.765	6.341	0.000	1.200 *	1.652	0.50	1.216	1.46	9.2	28.4	102.5
87.00		1.00	0.95	5.774	6.351	0.000	1.200 *	1.653	0.50	1.212	1.45	9.2	28.4	102.3
88.00		1.00	0.95	5.793	6.372	0.000	1.200 *	1.655	1.00	2.415	2.90	18.5	56.4	203.9
89.00		1.00	0.95	5.812	6.393	0.000	1.200 *	1.656	1.00	2.401	2.88	18.4	56.2	203.1
90.00		1.00	0.95	5.830	6.413	0.000	1.200 *	1.658	1.00	2.388	2.87	18.4	55.9	202.3
91.00		1.00	0.96	5.849	6.434	0.000	1.200 *	1.660	1.00	2.375	2.85	18.3	55.6	201.6
92.00		1.00	0.96	5.867	6.454	0.000	1.200 *	1.662	1.00	2.362	2.83	18.3	55.4	200.8
93.00		1.00	0.96	5.885	6.474	0.000	1.200 *	1.664	1.00	2.349	2.82	18.2	55.1	200.0
94.00		1.00	0.97	5.903	6.493	0.000	1.200 *	1.666	1.00	2.335	2.80	18.2	54.8	199.2
95.00		1.00	0.97	5.921	6.513	0.000	1.200 *	1.667	1.00	2.322	2.79	18.1	54.5	198.4
95.33	Reinf. Top	1.00	0.97	5.927	6.520	0.000	1.200 *	1.668	0.33	0.771	0.92	6.0	18.1	66.0
96.00		1.00	0.97	5.939	6.533	0.000	1.200 *	1.669	0.67	1.538	1.85	12.1	36.2	87.2
97.00		1.00	0.98	5.956	6.552	0.000	1.200 *	1.671	1.00	2.296	2.75	18.0	54.0	130.0
98.00		1.00	0.98	5.974	6.571	0.000	1.200 *	1.672	1.00	2.282	2.74	18.0	53.7	129.2
99.00		1.00	0.98	5.991	6.590	0.000	1.200 *	1.674	1.00	2.269	2.72	17.9	53.4	128.4
100.0		1.00	0.98	6.008	6.609	0.000	1.200 *	1.676	1.00	2.256	2.71	17.9	53.1	127.6

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:22 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 70**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Load Case: **1.2D + 1.0Di + 1.0Wi** **50.00 mph with 0.75 in Radial Ice** **34 Iterations**

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

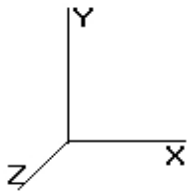
Dead Load Factor : 1.20 **Ice Importance Factor : 1.00**

Wind Load Factor : 1.00

101.0		1.00	0.99	6.026	6.628	0.000	1.200	*	1.678	1.00	2.243	2.69	17.8	52.8	126.8
102.0		1.00	0.99	6.043	6.647	0.000	1.200	*	1.679	1.00	2.229	2.68	17.8	52.6	126.0
103.0		1.00	0.99	6.059	6.665	0.000	1.200	*	1.681	1.00	2.216	2.66	17.7	52.3	125.2
104.0		1.00	0.99	6.076	6.684	0.000	1.200	*	1.682	1.00	2.203	2.64	17.7	52.0	124.4
105.0		1.00	1.00	6.093	6.702	0.000	1.200	*	1.684	1.00	2.190	2.63	17.6	51.7	123.6
106.0		1.00	1.00	6.109	6.720	0.000	1.200	*	1.686	1.00	2.177	2.61	17.6	51.4	122.8
107.0		1.00	1.00	6.126	6.738	0.000	1.200	*	1.687	1.00	2.163	2.60	17.5	51.1	122.0
108.0	Appertunance(s)	1.00	1.01	6.142	6.756	0.000	1.200	*	1.689	1.00	2.150	2.58	17.4	50.8	121.2
109.0		1.00	1.01	6.158	6.774	0.000	1.200	*	1.690	1.00	2.137	2.56	17.4	50.5	120.4
110.0		1.00	1.01	6.174	6.792	0.000	1.200	*	1.692	1.00	2.123	2.55	17.3	50.2	119.6
110.0	Top - Section 3	1.00	1.01	6.174	6.792	0.000	1.200	*	1.692	0.00	0.001	0.00	0.0	0.0	0.0
111.0		1.00	1.01	6.190	6.809	0.000	1.200	*	1.693	1.00	2.110	2.53	17.2	49.9	101.7
112.0		1.00	1.02	6.206	6.827	0.000	1.200	*	1.695	1.00	2.097	2.52	17.2	49.6	101.0
113.0		1.00	1.02	6.222	6.844	0.000	1.200	*	1.696	1.00	2.084	2.50	17.1	49.3	100.3
114.0		1.00	1.02	6.238	6.861	0.000	1.200	*	1.698	1.00	2.070	2.48	17.0	49.0	99.7
115.0		1.00	1.02	6.253	6.879	0.000	1.200	*	1.699	1.00	2.057	2.47	17.0	48.7	99.0
116.0		1.00	1.03	6.269	6.896	0.000	1.200	*	1.701	1.00	2.044	2.45	16.9	48.4	98.3
117.0		1.00	1.03	6.284	6.913	0.000	1.200	*	1.702	1.00	2.031	2.44	16.8	48.1	97.6
118.0		1.00	1.03	6.299	6.929	0.000	1.200	*	1.704	1.00	2.017	2.42	16.8	47.8	96.9
119.0		1.00	1.03	6.315	6.946	0.000	1.200	*	1.705	1.00	2.004	2.40	16.7	47.5	96.2
120.0		1.00	1.04	6.330	6.963	0.000	1.200	*	1.707	1.00	1.991	2.39	16.6	47.2	95.5
121.0		1.00	1.04	6.345	6.979	0.000	1.200	*	1.708	1.00	1.978	2.37	16.6	46.9	94.8
122.0		1.00	1.04	6.360	6.996	0.000	1.200	*	1.710	1.00	1.964	2.36	16.5	46.6	94.2
123.0		1.00	1.04	6.375	7.012	0.000	1.200	*	1.711	1.00	1.951	2.34	16.4	46.3	93.5
124.0		1.00	1.05	6.389	7.028	0.000	1.200	*	1.712	1.00	1.938	2.33	16.3	46.0	92.8
125.0		1.00	1.05	6.404	7.044	0.000	1.200	*	1.714	1.00	1.924	2.31	16.3	45.7	92.1
126.0		1.00	1.05	6.419	7.060	0.000	1.200	*	1.715	1.00	1.911	2.29	16.2	45.4	91.4
127.0		1.00	1.05	6.433	7.076	0.000	1.200	*	1.716	1.00	1.898	2.28	16.1	45.1	90.7
128.0		1.00	1.06	6.448	7.092	0.000	1.200	*	1.718	1.00	1.885	2.26	16.0	44.8	90.0
129.0		1.00	1.06	6.462	7.108	0.000	1.200	*	1.719	1.00	1.871	2.25	16.0	44.5	89.3
130.0		1.00	1.06	6.476	7.124	0.000	1.200	*	1.720	1.00	1.858	2.23	15.9	44.2	88.6
131.0		1.00	1.06	6.490	7.139	0.000	1.200	*	1.722	1.00	1.845	2.21	15.8	43.8	87.9
132.0		1.00	1.07	6.504	7.155	0.000	1.200	*	1.723	1.00	1.831	2.20	15.7	43.5	87.2
133.0		1.00	1.07	6.519	7.170	0.000	1.200	*	1.724	1.00	1.818	2.18	15.6	43.2	86.5
134.0		1.00	1.07	6.532	7.186	0.000	1.200	*	1.726	1.00	1.805	2.17	15.6	42.9	85.8
135.0		1.00	1.07	6.546	7.201	0.000	1.200	*	1.727	1.00	1.791	2.15	15.5	42.6	85.1
136.0		1.00	1.07	6.560	7.216	0.000	1.200	*	1.728	1.00	1.778	2.13	15.4	42.3	84.4
137.0		1.00	1.08	6.574	7.231	0.000	1.200	*	1.729	1.00	1.765	2.12	15.3	41.9	83.7
138.0		1.00	1.08	6.588	7.246	0.000	1.200	*	1.731	1.00	1.752	2.10	15.2	41.6	83.0
139.0		1.00	1.08	6.601	7.261	0.000	1.200	*	1.732	1.00	1.738	2.09	15.1	41.3	82.3
140.0		1.00	1.08	6.615	7.276	0.000	1.200	*	1.733	1.00	1.725	2.07	15.1	41.0	81.6
141.0		1.00	1.09	6.628	7.291	0.000	1.200	*	1.734	1.00	1.712	2.05	15.0	40.7	80.9
142.0		1.00	1.09	6.642	7.306	0.000	1.200	*	1.736	1.00	1.698	2.04	14.9	40.3	80.1
143.0		1.00	1.09	6.655	7.320	0.000	1.200	*	1.737	1.00	1.685	2.02	14.8	40.0	79.4
144.0		1.00	1.09	6.668	7.335	0.000	1.200	*	1.738	1.00	1.672	2.01	14.7	39.7	78.7
145.0		1.00	1.09	6.681	7.350	0.000	1.200	*	1.739	1.00	1.658	1.99	14.6	39.4	78.0
146.0	Appertunance(s)	1.00	1.10	6.695	7.364	0.000	1.200	*	1.741	1.00	1.645	1.97	14.5	39.1	77.3
147.0		1.00	1.10	6.708	7.378	0.000	1.200		1.742	1.00	1.632	1.96	14.4	38.7	76.6
148.0		1.00	1.10	6.721	7.393	0.000	1.200		1.743	1.00	1.618	1.94	14.4	38.4	75.9
149.0		1.00	1.10	6.734	7.407	0.000	1.200		1.744	1.00	1.605	1.93	14.3	38.1	75.2
150.0	Appertunance(s)	1.00	1.11	6.746	7.421	0.000	1.200		1.745	1.00	1.592	1.91	14.2	37.8	74.5
Totals:										**150.00**			**2,650.5**	**8,451.8**	**30,864.9**

*** = Cf Adjusted By Linear Load Ra Effect**

Pole :	302482	Code: ANSI/TIA-222 Rev G	
Location :	North Haven CT 1, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

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

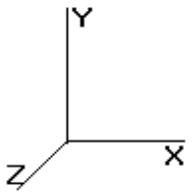
Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

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)
108.0	RFS FD9R6004/2C-3L	6	6.142	6.756	0.50	0.80	1.37	0.000	0.000	9.27	0.00	0.00	93.70
108.0	Commscope HBX-	3	6.142	6.756	0.68	0.80	6.85	0.000	0.000	46.29	0.00	0.00	281.35
108.0	Commscope HBX-	3	6.142	6.756	0.69	0.80	12.59	0.000	0.000	85.04	0.00	0.00	245.23
108.0	Antel BXA-70063/6CF_	3	6.142	6.756	0.65	0.80	13.69	0.000	0.000	92.49	0.00	0.00	543.20
108.0	Andrew LNX-6514DS-	3	6.142	6.756	0.69	0.80	18.05	0.000	0.000	121.97	0.00	0.00	499.99
108.0	RFS FD9R6004/1C-3L	6	6.142	6.756	0.50	0.80	1.37	0.000	0.000	9.26	0.00	0.00	97.27
108.0	Round Low Profile Pl	1	6.142	6.756	1.00	1.00	40.32	0.000	0.000	272.39	0.00	0.00	2,228.24
146.0	12" x 12" Junction B	3	6.695	7.364	0.50	0.80	2.00	0.000	0.000	14.71	0.00	0.00	191.51
146.0	NextNet BTS-2500	3	6.695	7.364	0.50	0.80	2.83	0.000	0.000	20.86	0.00	0.00	296.76
146.0	Argus LLPX310R	3	6.695	7.364	0.63	0.80	7.84	0.000	0.000	57.75	0.00	0.00	425.40
146.0	Collar	1	6.695	7.364	1.00	1.00	15.60	0.000	0.000	114.89	0.00	0.00	71.42
146.0	DragonWave Horizon	3	6.695	7.364	0.33	0.80	0.52	0.000	0.000	3.84	0.00	0.00	128.42
146.0	DragonWave A-ANT-	1	6.695	7.364	0.90	0.80	1.70	0.000	0.000	12.55	0.00	0.00	43.21
146.0	DragonWave A-ANT-	1	6.695	7.364	1.00	0.80	8.32	0.000	0.000	61.25	0.00	0.00	115.14
146.0	DragonWave A-ANT-	1	6.695	7.364	0.90	0.80	4.29	0.000	0.000	31.62	0.00	0.00	101.69
150.0	Round Low Profile Pl	1	6.746	7.421	1.00	1.00	40.94	0.000	0.000	303.81	0.00	0.00	2,249.22
150.0	Allgon 7770.00	3	6.785	7.463	0.65	0.80	10.23	0.000	3.000	76.37	0.00	229.12	531.26
150.0	Powerwave LGP21401	6	6.785	7.463	0.50	0.80	3.75	0.000	3.000	28.01	0.00	84.02	303.41
150.0	Powerwave LGP21901	6	6.785	7.463	0.50	0.80	1.13	0.000	3.000	8.45	0.00	25.35	120.92
150.0	Raycap DC6-48-60-18-	1	6.785	7.463	1.00	0.80	2.02	0.000	3.000	15.07	0.00	45.21	104.58
150.0	Tophat	1	6.766	7.442	1.00	1.00	7.16	0.000	1.500	53.32	0.00	79.98	489.04
150.0	Kathrein 782 10250	6	6.785	7.463	0.50	0.80	1.87	0.000	3.000	13.94	0.00	41.81	161.49
150.0	Raycap DC6-48-60-18-	2	6.785	7.463	1.00	0.80	4.56	0.000	3.000	34.07	0.00	102.21	262.22
150.0	Ericsson RRUS A2 B2	3	6.785	7.463	0.50	0.80	3.20	0.000	3.000	23.85	0.00	71.55	245.35
150.0	Ericsson RRUS 11 (Ba	6	6.785	7.463	0.50	0.80	8.33	0.000	3.000	62.15	0.00	186.44	883.56
150.0	Ericsson RRUS 12	3	6.785	7.463	0.50	0.80	4.64	0.000	3.000	34.61	0.00	103.82	466.17
150.0	Ericsson RRUS E2 B29	3	6.785	7.463	0.50	0.80	5.18	0.000	3.000	38.63	0.00	115.89	403.96
150.0	Ericsson RRUS-32	3	6.785	7.463	0.50	0.80	5.51	0.000	3.000	41.15	0.00	123.45	485.86
150.0	CCI OPA-65R-LCUU-H6	6	6.785	7.463	0.66	0.80	34.93	0.000	3.000	260.70	0.00	782.10	1,916.18
										1,948.29			13,985.76

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:22 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 72
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

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

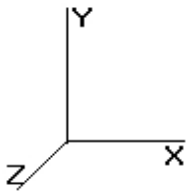
Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

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)
1.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.80	0.00	4.256	0.194	1.283	0.00	11.68
2.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.81	0.00	4.256	0.195	1.285	0.00	12.47
3.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.82	0.00	4.256	0.196	1.288	0.00	12.97
4.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.83	0.00	4.256	0.197	1.290	0.00	13.34
5.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.83	0.00	4.256	0.198	1.293	0.00	13.63
6.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.302	0.000	0.00	3.34
6.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.302	0.000	0.00	5.01
6.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.34	0.41	4.256	0.302	0.000	1.91	4.44
6.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.302	0.000	0.00	12.39
6.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.302	0.000	0.00	6.95
6.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.41	0.49	4.256	0.302	0.000	2.30	15.52
6.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.302	0.000	0.00	4.19
6.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.84	1.00	4.256	0.302	0.000	4.70	13.88
7.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.304	0.000	0.00	3.41
7.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.304	0.000	0.00	5.09
7.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.34	0.41	4.256	0.304	0.000	1.93	4.52
7.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.304	0.000	0.00	12.52
7.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.304	0.000	0.00	7.07
7.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.41	0.49	4.256	0.304	0.000	2.32	15.63
7.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.304	0.000	0.00	4.28
7.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.84	1.01	4.256	0.304	0.000	4.71	14.09
8.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.305	0.000	0.00	3.48
8.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.305	0.000	0.00	5.17
8.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.35	0.42	4.256	0.305	0.000	1.94	4.60
8.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.305	0.000	0.00	12.65
8.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.305	0.000	0.00	7.18
8.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.42	0.50	4.256	0.305	0.000	2.33	15.73
8.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.305	0.000	0.00	4.36
8.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.84	1.01	4.256	0.305	0.000	4.73	14.28
9.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.306	0.000	0.00	3.54
9.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.306	0.000	0.00	5.24
9.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.35	0.42	4.256	0.306	0.000	1.96	4.66
9.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.306	0.000	0.00	12.75
9.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.306	0.000	0.00	7.27
9.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.42	0.50	4.256	0.306	0.000	2.35	15.82
9.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.306	0.000	0.00	4.43
9.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.84	1.01	4.256	0.306	0.000	4.74	14.45
10.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.308	0.000	0.00	3.60
10.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.308	0.000	0.00	5.30
10.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.35	0.42	4.256	0.308	0.000	1.97	4.73
10.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.308	0.000	0.00	12.85
10.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.308	0.000	0.00	7.36
10.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.42	0.50	4.256	0.308	0.000	2.36	15.91
10.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.308	0.000	0.00	4.49
10.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.85	1.02	4.256	0.308	0.000	4.76	14.61
11.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.309	0.000	0.00	3.65
11.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.309	0.000	0.00	5.35
11.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.35	0.42	4.256	0.309	0.000	1.98	4.78
11.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.309	0.000	0.00	12.94
11.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.309	0.000	0.00	7.44
11.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.42	0.51	4.256	0.309	0.000	2.37	15.98

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:23 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	73
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

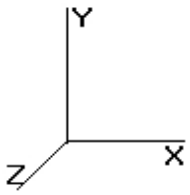
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

11.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.309	0.000	0.00	4.56
11.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.85	1.02	4.256	0.309	0.000	4.77	14.75
12.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.310	0.000	0.00	3.70
12.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.310	0.000	0.00	5.41
12.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.36	0.43	4.256	0.310	0.000	2.00	4.84
12.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.310	0.000	0.00	13.03
12.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.310	0.000	0.00	7.51
12.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.42	0.51	4.256	0.310	0.000	2.38	16.05
12.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.310	0.000	0.00	4.61
12.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.85	1.02	4.256	0.310	0.000	4.78	14.88
12.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.311	0.000	0.00	1.86
12.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.311	0.000	0.00	2.72
12.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.18	0.21	4.256	0.311	0.000	1.00	2.43
12.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.311	0.000	0.00	6.53
12.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.311	0.000	0.00	3.77
12.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.21	0.26	4.256	0.311	0.000	1.19	8.04
12.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.311	0.000	0.00	2.32
12.50	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.43	0.51	4.256	0.311	0.000	2.39	7.47
13.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.312	0.000	0.00	1.87
13.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.312	0.000	0.00	2.73
13.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.18	0.21	4.256	0.312	0.000	1.00	2.44
13.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.312	0.000	0.00	6.55
13.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.312	0.000	0.00	3.79
13.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.21	0.26	4.256	0.312	0.000	1.20	8.06
13.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.256	0.312	0.000	0.00	2.33
13.00	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.43	0.51	4.256	0.312	0.000	2.40	7.50
14.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.313	0.000	0.00	3.79
14.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.313	0.000	0.00	5.50
14.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.36	0.43	4.256	0.313	0.000	2.01	4.93
14.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.313	0.000	0.00	13.18
14.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.313	0.000	0.00	7.64
14.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.43	0.51	4.256	0.313	0.000	2.40	16.18
14.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.313	0.000	0.00	4.71
14.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.85	1.03	4.256	0.313	0.000	4.80	15.11
15.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.315	0.000	0.00	3.83
15.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.315	0.000	0.00	5.55
15.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.36	0.43	4.256	0.315	0.000	2.02	4.98
15.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.315	0.000	0.00	13.25
15.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.315	0.000	0.00	7.70
15.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.43	0.52	4.256	0.315	0.000	2.41	16.24
15.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.315	0.000	0.00	4.76
15.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.86	1.03	4.256	0.315	0.000	4.81	15.22
16.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.316	0.000	0.00	3.86
16.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.316	0.000	0.00	5.59
16.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.36	0.43	4.256	0.316	0.000	2.03	5.02
16.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.316	0.000	0.00	13.31
16.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.316	0.000	0.00	7.76
16.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.43	0.52	4.256	0.316	0.000	2.42	16.29
16.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.316	0.000	0.00	4.80
16.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.86	1.03	4.256	0.316	0.000	4.82	15.32
17.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.317	0.000	0.00	3.90
17.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.317	0.000	0.00	5.63
17.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.36	0.44	4.256	0.317	0.000	2.04	5.06
17.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.317	0.000	0.00	13.38
17.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.317	0.000	0.00	7.81
17.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.43	0.52	4.256	0.317	0.000	2.43	16.35
17.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.317	0.000	0.00	4.84

Pole :	302482				Code: ANSI/TIA-222 Rev G						11/12/2014 9:57:23 AM	
Location :	North Haven CT 1, CT				Struct Class : II						Page: 74	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.37 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

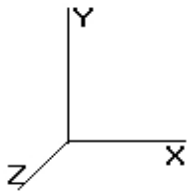
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

17.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.86	1.03	4.256	0.317	0.000	4.83	15.41
18.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.319	0.000	0.00	3.93
18.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.319	0.000	0.00	5.67
18.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.36	0.44	4.256	0.319	0.000	2.05	5.09
18.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.319	0.000	0.00	13.43
18.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.319	0.000	0.00	7.86
18.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.43	0.52	4.256	0.319	0.000	2.44	16.40
18.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.319	0.000	0.00	4.88
18.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.86	1.03	4.256	0.319	0.000	4.83	15.50
19.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.320	0.000	0.00	3.97
19.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.320	0.000	0.00	5.70
19.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.44	4.256	0.320	0.000	2.05	5.13
19.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.320	0.000	0.00	13.49
19.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.320	0.000	0.00	7.91
19.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.43	0.52	4.256	0.320	0.000	2.44	16.44
19.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.320	0.000	0.00	4.92
19.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.86	1.03	4.256	0.320	0.000	4.84	15.59
20.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.322	0.000	0.00	4.00
20.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.322	0.000	0.00	5.74
20.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.44	4.256	0.322	0.000	2.06	5.16
20.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.322	0.000	0.00	13.54
20.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.322	0.000	0.00	7.96
20.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.52	4.256	0.322	0.000	2.45	16.49
20.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.322	0.000	0.00	4.96
20.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.86	1.04	4.256	0.322	0.000	4.85	15.67
21.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.323	0.000	0.00	4.03
21.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.323	0.000	0.00	5.77
21.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.44	4.256	0.323	0.000	2.07	5.20
21.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.323	0.000	0.00	13.60
21.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.323	0.000	0.00	8.00
21.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.52	4.256	0.323	0.000	2.46	16.53
21.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.323	0.000	0.00	4.99
21.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.86	1.04	4.256	0.323	0.000	4.85	15.75
22.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	4.06
22.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	5.80
22.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.44	4.256	0.325	0.000	2.07	5.23
22.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	13.64
22.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	8.05
22.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.53	4.256	0.325	0.000	2.46	16.57
22.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.325	0.000	0.00	5.03
22.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.04	4.256	0.325	0.000	4.86	15.82
23.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.326	0.000	0.00	4.08
23.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.326	0.000	0.00	5.83
23.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.44	4.256	0.326	0.000	2.08	5.26
23.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.326	0.000	0.00	13.69
23.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.326	0.000	0.00	8.09
23.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.53	4.256	0.326	0.000	2.47	16.61
23.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.326	0.000	0.00	5.06
23.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.04	4.256	0.326	0.000	4.87	15.90
24.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.328	0.000	0.00	4.11
24.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.328	0.000	0.00	5.86
24.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.45	4.256	0.328	0.000	2.09	5.29
24.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.328	0.000	0.00	13.74
24.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.328	0.000	0.00	8.13
24.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.53	4.256	0.328	0.000	2.47	16.65
24.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.328	0.000	0.00	5.09
24.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.04	4.256	0.328	0.000	4.87	15.97

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:23 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	75
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

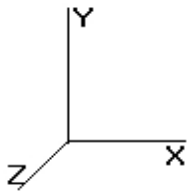
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

25.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.329	0.000	0.00	4.14
25.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.329	0.000	0.00	5.89
25.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.45	4.256	0.329	0.000	2.09	5.32
25.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.329	0.000	0.00	13.78
25.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.329	0.000	0.00	8.17
25.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.53	4.256	0.329	0.000	2.48	16.69
25.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.329	0.000	0.00	5.12
25.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.04	4.256	0.329	0.000	4.88	16.03
26.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.331	0.000	0.00	4.16
26.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.331	0.000	0.00	5.92
26.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.45	4.256	0.331	0.000	2.10	5.34
26.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.331	0.000	0.00	13.82
26.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.331	0.000	0.00	8.20
26.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.53	4.256	0.331	0.000	2.49	16.73
26.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.331	0.000	0.00	5.15
26.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.04	4.256	0.331	0.000	4.88	16.10
27.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.332	0.000	0.00	4.19
27.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.332	0.000	0.00	5.94
27.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.37	0.45	4.256	0.332	0.000	2.10	5.37
27.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.332	0.000	0.00	13.87
27.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.332	0.000	0.00	8.24
27.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.53	4.256	0.332	0.000	2.49	16.76
27.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.332	0.000	0.00	5.17
27.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.04	4.256	0.332	0.000	4.89	16.16
28.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.334	0.000	0.00	4.21
28.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.334	0.000	0.00	5.97
28.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.45	4.256	0.334	0.000	2.11	5.40
28.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.334	0.000	0.00	13.91
28.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.334	0.000	0.00	8.28
28.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.44	0.53	4.256	0.334	0.000	2.50	16.80
28.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.334	0.000	0.00	5.20
28.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.05	4.256	0.334	0.000	4.89	16.22
29.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.335	0.000	0.00	4.23
29.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.335	0.000	0.00	5.99
29.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.45	4.256	0.335	0.000	2.11	5.42
29.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.335	0.000	0.00	13.94
29.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.335	0.000	0.00	8.31
29.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.53	4.256	0.335	0.000	2.50	16.83
29.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.256	0.335	0.000	0.00	5.23
29.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.05	4.256	0.335	0.000	4.90	16.28
30.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.260	0.337	0.000	0.00	4.26
30.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.260	0.337	0.000	0.00	6.02
30.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.45	4.260	0.337	0.000	2.12	5.44
30.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.260	0.337	0.000	0.00	13.98
30.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.260	0.337	0.000	0.00	8.34
30.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.260	0.337	0.000	2.51	16.86
30.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.260	0.337	0.000	0.00	5.25
30.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.05	4.260	0.337	0.000	4.91	16.34
31.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.300	0.339	0.000	0.00	4.28
31.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.300	0.339	0.000	0.00	6.04
31.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.45	4.300	0.339	0.000	2.14	5.47
31.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.300	0.339	0.000	0.00	14.02
31.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.300	0.339	0.000	0.00	8.38
31.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.300	0.339	0.000	2.54	16.89
31.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.300	0.339	0.000	0.00	5.28
31.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.87	1.05	4.300	0.339	0.000	4.96	16.40
31.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	4.319	0.340	0.000	0.00	2.15

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:23 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	76
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

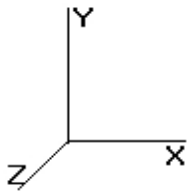
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

31.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	4.319	0.340	0.000	0.00	3.03
31.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.19	0.23	4.319	0.340	0.000	1.08	2.74
31.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	4.319	0.340	0.000	0.00	7.02
31.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.319	0.340	0.000	0.00	4.20
31.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.22	0.27	4.319	0.340	0.000	1.28	8.46
31.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.319	0.340	0.000	0.00	2.65
31.50	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.44	0.52	4.319	0.340	0.000	2.49	8.22
32.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.341	0.000	0.00	2.15
32.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.341	0.000	0.00	3.03
32.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.19	0.23	4.339	0.341	0.000	1.08	2.74
32.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.341	0.000	0.00	7.02
32.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.341	0.000	0.00	4.20
32.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.22	0.27	4.339	0.341	0.000	1.28	8.45
32.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	4.339	0.341	0.000	0.00	2.65
32.00	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.44	0.52	4.339	0.341	0.000	2.50	8.22
33.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.377	0.342	0.000	0.00	4.32
33.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.377	0.342	0.000	0.00	6.09
33.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.45	4.377	0.342	0.000	2.19	5.51
33.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.377	0.342	0.000	0.00	14.09
33.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.377	0.342	0.000	0.00	8.44
33.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.377	0.342	0.000	2.59	16.95
33.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.377	0.342	0.000	0.00	5.33
33.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.05	4.377	0.342	0.000	5.06	16.50
34.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.415	0.344	0.000	0.00	4.34
34.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.415	0.344	0.000	0.00	6.11
34.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.46	4.415	0.344	0.000	2.21	5.54
34.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.415	0.344	0.000	0.00	14.12
34.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.415	0.344	0.000	0.00	8.47
34.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.415	0.344	0.000	2.62	16.98
34.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.415	0.344	0.000	0.00	5.35
34.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.05	4.415	0.344	0.000	5.10	16.55
35.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.451	0.345	0.000	0.00	4.36
35.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.451	0.345	0.000	0.00	6.13
35.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.46	4.451	0.345	0.000	2.24	5.56
35.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.451	0.345	0.000	0.00	14.16
35.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.451	0.345	0.000	0.00	8.50
35.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.451	0.345	0.000	2.64	17.01
35.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.451	0.345	0.000	0.00	5.37
35.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.05	4.451	0.345	0.000	5.15	16.60
35.67	(2) 0.51" Hybrid	Yes	0.67	0.000	0.00	0.00	0.00	4.475	0.347	0.000	0.00	2.92
35.67	(2) 0.78" 8 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	4.475	0.347	0.000	0.00	4.10
35.67	(1) 1 1/4" Coax	Yes	0.67	1.200	1.55	0.25	0.31	4.475	0.347	0.000	1.50	3.72
35.67	(4) 1.24" 4 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	4.475	0.347	0.000	0.00	9.46
35.67	(6) 1/2" Coax	Yes	0.67	0.000	0.00	0.00	0.00	4.475	0.347	0.000	0.00	5.68
35.67	(1) 3" Conduit	Yes	0.67	1.200	2.38	0.30	0.36	4.475	0.347	0.000	1.77	11.36
35.67	(6) 5/16" Coax	Yes	0.67	0.000	0.00	0.00	0.00	4.475	0.347	0.000	0.00	3.59
35.67	(4) # 20 Dywidag	Yes	0.67	1.200	7.50	0.58	0.70	4.475	0.347	0.000	3.46	11.10
36.00	(2) 0.51" Hybrid	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.341	0.000	0.00	1.46
36.00	(2) 0.78" 8 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.341	0.000	0.00	2.05
36.00	(1) 1 1/4" Coax	Yes	0.33	1.200	1.55	0.13	0.15	4.487	0.341	0.000	0.75	1.86
36.00	(4) 1.24" 4 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.341	0.000	0.00	4.72
36.00	(6) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.341	0.000	0.00	2.84
36.00	(1) 3" Conduit	Yes	0.33	1.200	2.38	0.15	0.18	4.487	0.341	0.000	0.89	5.67
36.00	(6) 5/16" Coax	Yes	0.33	0.000	0.00	0.00	0.00	4.487	0.341	0.000	0.00	1.80
36.00	(4) # 20 Dywidag	Yes	0.33	1.200	7.50	0.29	0.35	4.487	0.341	0.000	1.73	5.55
37.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.523	0.342	0.000	0.00	4.40
37.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.523	0.342	0.000	0.00	6.17

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:23 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page: 77**	
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **1.2D + 1.0Di + 1.0Wi** **50.00 mph with 0.75 in Radial Ice** **34 Iterations**

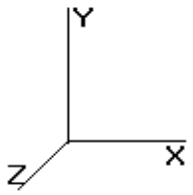
Gust Response Factor : 1.10 **Ice Dead Load Factor : 1.00** **Wind Importance Factor : 1.00**

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

Wind Load Factor : 1.00

37.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.46	4.523	0.342	0.000	2.28	5.60
37.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.523	0.342	0.000	0.00	14.22
37.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.523	0.342	0.000	0.00	8.55
37.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.523	0.342	0.000	2.69	17.06
37.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.523	0.342	0.000	0.00	5.42
37.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.05	4.523	0.342	0.000	5.24	16.70
38.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.557	0.344	0.000	0.00	4.41
38.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.557	0.344	0.000	0.00	6.19
38.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.46	4.557	0.344	0.000	2.30	5.62
38.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.557	0.344	0.000	0.00	14.25
38.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.557	0.344	0.000	0.00	8.58
38.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.557	0.344	0.000	2.72	17.09
38.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.557	0.344	0.000	0.00	5.44
38.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.05	4.557	0.344	0.000	5.28	16.75
39.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.591	0.345	0.000	0.00	4.43
39.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.591	0.345	0.000	0.00	6.21
39.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.46	4.591	0.345	0.000	2.32	5.64
39.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.591	0.345	0.000	0.00	14.28
39.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.591	0.345	0.000	0.00	8.60
39.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.591	0.345	0.000	2.74	17.11
39.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.591	0.345	0.000	0.00	5.46
39.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.591	0.345	0.000	5.33	16.79
40.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.625	0.347	0.000	0.00	4.45
40.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.625	0.347	0.000	0.00	6.23
40.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.46	4.625	0.347	0.000	2.34	5.66
40.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.625	0.347	0.000	0.00	14.31
40.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.625	0.347	0.000	0.00	8.63
40.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.625	0.347	0.000	2.77	17.14
40.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.625	0.347	0.000	0.00	5.48
40.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.625	0.347	0.000	5.37	16.84
41.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.657	0.349	0.000	0.00	4.47
41.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.657	0.349	0.000	0.00	6.25
41.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.38	0.46	4.657	0.349	0.000	2.36	5.68
41.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.657	0.349	0.000	0.00	14.34
41.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.657	0.349	0.000	0.00	8.66
41.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.54	4.657	0.349	0.000	2.79	17.16
41.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.657	0.349	0.000	0.00	5.50
41.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.657	0.349	0.000	5.41	16.88
42.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.689	0.351	0.000	0.00	4.48
42.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.689	0.351	0.000	0.00	6.27
42.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.46	4.689	0.351	0.000	2.38	5.69
42.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.689	0.351	0.000	0.00	14.37
42.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.689	0.351	0.000	0.00	8.68
42.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.45	0.55	4.689	0.351	0.000	2.81	17.19
42.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.689	0.351	0.000	0.00	5.52
42.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.689	0.351	0.000	5.45	16.92
43.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.721	0.352	0.000	0.00	4.50
43.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.721	0.352	0.000	0.00	6.28
43.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.46	4.721	0.352	0.000	2.40	5.71
43.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.721	0.352	0.000	0.00	14.39
43.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.721	0.352	0.000	0.00	8.70
43.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.721	0.352	0.000	2.84	17.21
43.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.721	0.352	0.000	0.00	5.54
43.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.721	0.352	0.000	5.49	16.96
44.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.752	0.354	0.000	0.00	4.52
44.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.752	0.354	0.000	0.00	6.30
44.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.46	4.752	0.354	0.000	2.42	5.73

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:23 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	78
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



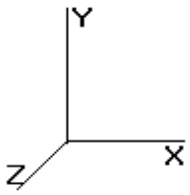
Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

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

44.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.752	0.354	0.000	0.00	14.42
44.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.752	0.354	0.000	0.00	8.73
44.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.752	0.354	0.000	2.86	17.23
44.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.752	0.354	0.000	0.00	5.55
44.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.752	0.354	0.000	5.53	17.01
45.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.783	0.356	0.000	0.00	4.53
45.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.783	0.356	0.000	0.00	6.32
45.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.46	4.783	0.356	0.000	2.44	5.75
45.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.783	0.356	0.000	0.00	14.45
45.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.783	0.356	0.000	0.00	8.75
45.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.783	0.356	0.000	2.88	17.26
45.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.783	0.356	0.000	0.00	5.57
45.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.783	0.356	0.000	5.57	17.05
46.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.813	0.358	0.000	0.00	4.55
46.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.813	0.358	0.000	0.00	6.34
46.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	4.813	0.358	0.000	2.46	5.76
46.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.813	0.358	0.000	0.00	14.47
46.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.813	0.358	0.000	0.00	8.77
46.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.813	0.358	0.000	2.90	17.28
46.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.813	0.358	0.000	0.00	5.59
46.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.813	0.358	0.000	5.61	17.08
47.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.843	0.359	0.000	0.00	4.56
47.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.843	0.359	0.000	0.00	6.35
47.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	4.843	0.359	0.000	2.48	5.78
47.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.843	0.359	0.000	0.00	14.50
47.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.843	0.359	0.000	0.00	8.80
47.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.843	0.359	0.000	2.92	17.30
47.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.843	0.359	0.000	0.00	5.61
47.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.843	0.359	0.000	5.65	17.12
48.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.872	0.361	0.000	0.00	4.58
48.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.872	0.361	0.000	0.00	6.37
48.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	4.872	0.361	0.000	2.50	5.80
48.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.872	0.361	0.000	0.00	14.52
48.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.872	0.361	0.000	0.00	8.82
48.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.872	0.361	0.000	2.94	17.32
48.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.872	0.361	0.000	0.00	5.62
48.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.88	1.06	4.872	0.361	0.000	5.69	17.16
49.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.901	0.363	0.000	0.00	4.59
49.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.901	0.363	0.000	0.00	6.39
49.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	4.901	0.363	0.000	2.52	5.81
49.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.901	0.363	0.000	0.00	14.55
49.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.901	0.363	0.000	0.00	8.84
49.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.901	0.363	0.000	2.97	17.34
49.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.901	0.363	0.000	0.00	5.64
49.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.06	4.901	0.363	0.000	5.73	17.20
50.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.929	0.365	0.000	0.00	4.61
50.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.929	0.365	0.000	0.00	6.40
50.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	4.929	0.365	0.000	2.54	5.83
50.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.929	0.365	0.000	0.00	14.57
50.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.929	0.365	0.000	0.00	8.86
50.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.929	0.365	0.000	2.99	17.36
50.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.929	0.365	0.000	0.00	5.66
50.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.06	4.929	0.365	0.000	5.76	17.24
51.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.957	0.367	0.000	0.00	4.62
51.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.957	0.367	0.000	0.00	6.42
51.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	4.957	0.367	0.000	2.55	5.84
51.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.957	0.367	0.000	0.00	14.60



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

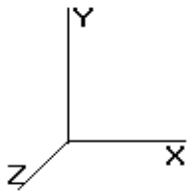
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

51.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.957	0.367	0.000	0.00	8.88
51.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.957	0.367	0.000	3.01	17.38
51.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.957	0.367	0.000	0.00	5.67
51.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.06	4.957	0.367	0.000	5.80	17.27
52.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	4.984	0.369	0.000	0.00	4.64
52.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.984	0.369	0.000	0.00	6.43
52.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	4.984	0.369	0.000	2.57	5.86
52.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	4.984	0.369	0.000	0.00	14.62
52.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.984	0.369	0.000	0.00	8.90
52.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	4.984	0.369	0.000	3.03	17.40
52.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	4.984	0.369	0.000	0.00	5.69
52.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.06	4.984	0.369	0.000	5.83	17.31
53.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.012	0.371	0.000	0.00	4.65
53.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.012	0.371	0.000	0.00	6.45
53.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	5.012	0.371	0.000	2.59	5.87
53.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.012	0.371	0.000	0.00	14.64
53.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.012	0.371	0.000	0.00	8.92
53.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	5.012	0.371	0.000	3.05	17.42
53.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.012	0.371	0.000	0.00	5.71
53.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.06	5.012	0.371	0.000	5.87	17.34
54.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.039	0.373	0.000	0.00	4.66
54.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.039	0.373	0.000	0.00	6.46
54.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	5.039	0.373	0.000	2.61	5.89
54.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.039	0.373	0.000	0.00	14.67
54.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.039	0.373	0.000	0.00	8.94
54.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	5.039	0.373	0.000	3.07	17.44
54.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.039	0.373	0.000	0.00	5.72
54.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.039	0.373	0.000	5.90	17.38
55.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.065	0.375	0.000	0.00	4.68
55.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.065	0.375	0.000	0.00	6.48
55.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	5.065	0.375	0.000	2.62	5.90
55.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.065	0.375	0.000	0.00	14.69
55.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.065	0.375	0.000	0.00	8.96
55.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	5.065	0.375	0.000	3.09	17.46
55.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.065	0.375	0.000	0.00	5.74
55.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.065	0.375	0.000	5.94	17.41
56.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.091	0.377	0.000	0.00	4.69
56.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.091	0.377	0.000	0.00	6.49
56.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	5.091	0.377	0.000	2.64	5.92
56.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.091	0.377	0.000	0.00	14.71
56.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.091	0.377	0.000	0.00	8.98
56.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	5.091	0.377	0.000	3.10	17.48
56.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.091	0.377	0.000	0.00	5.75
56.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.091	0.377	0.000	5.97	17.44
57.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.117	0.379	0.000	0.00	4.70
57.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.117	0.379	0.000	0.00	6.51
57.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	5.117	0.379	0.000	2.66	5.93
57.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.117	0.379	0.000	0.00	14.73
57.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.117	0.379	0.000	0.00	9.00
57.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.55	5.117	0.379	0.000	3.12	17.50
57.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.117	0.379	0.000	0.00	5.77
57.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.117	0.379	0.000	6.00	17.47
58.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.142	0.381	0.000	0.00	4.72
58.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.142	0.381	0.000	0.00	6.52
58.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	5.142	0.381	0.000	2.67	5.95
58.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.142	0.381	0.000	0.00	14.75
58.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.142	0.381	0.000	0.00	9.02

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:23 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	80
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

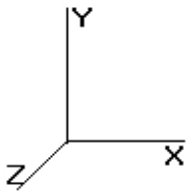
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

58.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.56	5.142	0.381	0.000	3.14	17.52
58.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.142	0.381	0.000	0.00	5.78
58.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.142	0.381	0.000	6.04	17.51
59.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.168	0.383	0.000	0.00	4.73
59.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.168	0.383	0.000	0.00	6.53
59.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	5.168	0.383	0.000	2.69	5.96
59.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.168	0.383	0.000	0.00	14.77
59.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.168	0.383	0.000	0.00	9.04
59.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.56	5.168	0.383	0.000	3.16	17.53
59.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.168	0.383	0.000	0.00	5.80
59.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.168	0.383	0.000	6.07	17.54
60.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.193	0.385	0.000	0.00	4.74
60.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.193	0.385	0.000	0.00	6.55
60.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.39	0.47	5.193	0.385	0.000	2.70	5.97
60.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.193	0.385	0.000	0.00	14.79
60.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.193	0.385	0.000	0.00	9.06
60.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.56	5.193	0.385	0.000	3.18	17.55
60.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.193	0.385	0.000	0.00	5.81
60.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.193	0.385	0.000	6.10	17.57
61.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.217	0.387	0.000	0.00	4.75
61.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.217	0.387	0.000	0.00	6.56
61.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.47	5.217	0.387	0.000	2.72	5.99
61.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.217	0.387	0.000	0.00	14.81
61.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.217	0.387	0.000	0.00	9.08
61.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.56	5.217	0.387	0.000	3.20	17.57
61.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.217	0.387	0.000	0.00	5.83
61.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.217	0.387	0.000	6.13	17.60
62.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.241	0.389	0.000	0.00	4.77
62.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.241	0.389	0.000	0.00	6.57
62.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.47	5.241	0.389	0.000	2.74	6.00
62.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.241	0.389	0.000	0.00	14.84
62.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.241	0.389	0.000	0.00	9.09
62.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.46	0.56	5.241	0.389	0.000	3.21	17.59
62.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.241	0.389	0.000	0.00	5.84
62.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.241	0.389	0.000	6.17	17.63
63.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.265	0.391	0.000	0.00	4.78
63.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.265	0.391	0.000	0.00	6.59
63.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.265	0.391	0.000	2.75	6.01
63.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.265	0.391	0.000	0.00	14.85
63.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.265	0.391	0.000	0.00	9.11
63.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.265	0.391	0.000	3.23	17.60
63.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.265	0.391	0.000	0.00	5.85
63.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.265	0.391	0.000	6.20	17.66
64.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.289	0.394	0.000	0.00	4.79
64.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.289	0.394	0.000	0.00	6.60
64.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.289	0.394	0.000	2.77	6.03
64.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.289	0.394	0.000	0.00	14.87
64.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.289	0.394	0.000	0.00	9.13
64.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.289	0.394	0.000	3.25	17.62
64.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.289	0.394	0.000	0.00	5.87
64.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.289	0.394	0.000	6.23	17.69
65.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.313	0.396	0.000	0.00	4.80
65.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.313	0.396	0.000	0.00	6.61
65.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.313	0.396	0.000	2.78	6.04
65.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.313	0.396	0.000	0.00	14.89
65.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.313	0.396	0.000	0.00	9.15
65.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.313	0.396	0.000	3.27	17.64

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:24 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	81
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

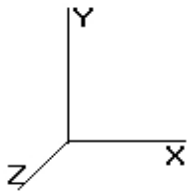
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

65.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.313	0.396	0.000	0.00	5.88
65.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.313	0.396	0.000	6.26	17.72
66.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.336	0.398	0.000	0.00	4.81
66.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.336	0.398	0.000	0.00	6.63
66.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.336	0.398	0.000	2.80	6.05
66.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.336	0.398	0.000	0.00	14.91
66.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.336	0.398	0.000	0.00	9.16
66.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.336	0.398	0.000	3.28	17.65
66.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.336	0.398	0.000	0.00	5.89
66.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.336	0.398	0.000	6.29	17.75
67.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.359	0.400	0.000	0.00	4.82
67.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.359	0.400	0.000	0.00	6.64
67.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.359	0.400	0.000	2.81	6.06
67.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.359	0.400	0.000	0.00	14.93
67.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.359	0.400	0.000	0.00	9.18
67.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.359	0.400	0.000	3.30	17.67
67.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.359	0.400	0.000	0.00	5.91
67.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.359	0.400	0.000	6.32	17.78
68.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.382	0.403	0.000	0.00	4.84
68.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.382	0.403	0.000	0.00	6.65
68.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.382	0.403	0.000	2.83	6.08
68.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.382	0.403	0.000	0.00	14.95
68.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.382	0.403	0.000	0.00	9.20
68.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.382	0.403	0.000	3.32	17.68
68.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.382	0.403	0.000	0.00	5.92
68.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.382	0.403	0.000	6.35	17.80
69.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.404	0.405	0.000	0.00	4.85
69.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.404	0.405	0.000	0.00	6.66
69.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.404	0.405	0.000	2.84	6.09
69.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.404	0.405	0.000	0.00	14.97
69.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.404	0.405	0.000	0.00	9.21
69.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.404	0.405	0.000	3.33	17.70
69.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.404	0.405	0.000	0.00	5.93
69.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.404	0.405	0.000	6.38	17.83
70.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.426	0.407	0.000	0.00	4.86
70.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.426	0.407	0.000	0.00	6.67
70.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.426	0.407	0.000	2.86	6.10
70.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.426	0.407	0.000	0.00	14.99
70.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.426	0.407	0.000	0.00	9.23
70.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.426	0.407	0.000	3.35	17.72
70.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.426	0.407	0.000	0.00	5.95
70.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.426	0.407	0.000	6.41	17.86
70.00	(2) 0.51" Hybrid	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.408	0.000	0.00	0.00
70.00	(2) 0.78" 8 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.408	0.000	0.00	0.00
70.00	(1) 1 1/4" Coax	Yes	0.00	1.200	1.55	0.00	0.00	5.426	0.408	0.000	0.00	0.00
70.00	(4) 1.24" 4 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.408	0.000	0.00	0.01
70.00	(6) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.408	0.000	0.00	0.00
70.00	(1) 3" Conduit	Yes	0.00	1.200	2.38	0.00	0.00	5.426	0.408	0.000	0.00	0.01
70.00	(6) 5/16" Coax	Yes	0.00	0.000	0.00	0.00	0.00	5.426	0.408	0.000	0.00	0.00
70.00	(4) # 20 Dywidag	Yes	0.00	1.200	7.50	0.00	0.00	5.426	0.408	0.000	0.00	0.01
71.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.448	0.410	0.000	0.00	4.87
71.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.448	0.410	0.000	0.00	6.68
71.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.448	0.410	0.000	2.87	6.11
71.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.448	0.410	0.000	0.00	15.00
71.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.448	0.410	0.000	0.00	9.24
71.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.448	0.410	0.000	3.37	17.72
71.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.448	0.410	0.000	0.00	5.96

Pole :	302482				Code: ANSI/TIA-222 Rev G						11/12/2014 9:57:24 AM	
Location :	North Haven CT 1, CT				Struct Class : II						Page: 82	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.37 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

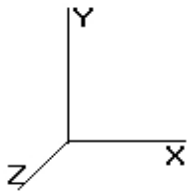
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

71.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.89	1.07	5.448	0.410	0.000	6.43	17.88
72.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.470	0.412	0.000	0.00	4.88
72.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.470	0.412	0.000	0.00	6.70
72.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.470	0.412	0.000	2.88	6.12
72.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.470	0.412	0.000	0.00	15.02
72.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.470	0.412	0.000	0.00	9.26
72.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.470	0.412	0.000	3.38	17.75
72.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.470	0.412	0.000	0.00	5.97
72.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.07	5.470	0.412	0.000	6.46	17.91
73.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.492	0.414	0.000	0.00	4.89
73.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.492	0.414	0.000	0.00	6.71
73.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.492	0.414	0.000	2.90	6.14
73.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.492	0.414	0.000	0.00	15.04
73.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.492	0.414	0.000	0.00	9.27
73.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.492	0.414	0.000	3.40	17.76
73.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.492	0.414	0.000	0.00	5.98
73.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.07	5.492	0.414	0.000	6.49	17.94
73.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	5.502	0.416	0.000	0.00	2.45
73.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	5.502	0.416	0.000	0.00	3.36
73.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.20	0.24	5.502	0.416	0.000	1.45	3.07
73.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	5.502	0.416	0.000	0.00	7.53
73.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.502	0.416	0.000	0.00	4.64
73.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.23	0.28	5.502	0.416	0.000	1.71	8.89
73.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.502	0.416	0.000	0.00	3.00
73.50	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.45	0.54	5.502	0.416	0.000	3.26	8.98
74.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.410	0.000	0.00	2.45
74.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.410	0.000	0.00	3.36
74.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.20	0.24	5.513	0.410	0.000	1.46	3.07
74.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.410	0.000	0.00	7.52
74.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.410	0.000	0.00	4.64
74.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.23	0.28	5.513	0.410	0.000	1.71	8.88
74.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.513	0.410	0.000	0.00	3.00
74.00	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.45	0.54	5.513	0.410	0.000	3.26	8.98
75.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.534	0.412	0.000	0.00	4.91
75.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.534	0.412	0.000	0.00	6.73
75.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.534	0.412	0.000	2.93	6.16
75.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.534	0.412	0.000	0.00	15.07
75.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.534	0.412	0.000	0.00	9.30
75.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.534	0.412	0.000	3.43	17.79
75.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.534	0.412	0.000	0.00	6.01
75.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.534	0.412	0.000	6.55	17.99
76.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.555	0.414	0.000	0.00	4.92
76.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.555	0.414	0.000	0.00	6.74
76.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.555	0.414	0.000	2.94	6.17
76.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.555	0.414	0.000	0.00	15.09
76.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.555	0.414	0.000	0.00	9.32
76.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.555	0.414	0.000	3.45	17.80
76.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.555	0.414	0.000	0.00	6.02
76.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.555	0.414	0.000	6.58	18.02
77.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.576	0.416	0.000	0.00	4.93
77.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.576	0.416	0.000	0.00	6.75
77.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.576	0.416	0.000	2.95	6.18
77.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.576	0.416	0.000	0.00	15.11
77.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.576	0.416	0.000	0.00	9.33
77.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.576	0.416	0.000	3.46	17.82
77.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.576	0.416	0.000	0.00	6.03
77.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.576	0.416	0.000	6.60	18.04

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:24 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	83
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

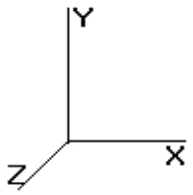
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

78.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.597	0.419	0.000	0.00	4.94
78.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.597	0.419	0.000	0.00	6.77
78.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.597	0.419	0.000	2.97	6.19
78.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.597	0.419	0.000	0.00	15.12
78.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.597	0.419	0.000	0.00	9.35
78.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.56	5.597	0.419	0.000	3.48	17.83
78.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.597	0.419	0.000	0.00	6.04
78.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.597	0.419	0.000	6.63	18.07
79.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.617	0.421	0.000	0.00	4.95
79.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.617	0.421	0.000	0.00	6.78
79.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.617	0.421	0.000	2.98	6.20
79.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.617	0.421	0.000	0.00	15.14
79.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.617	0.421	0.000	0.00	9.36
79.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.617	0.421	0.000	3.49	17.85
79.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.617	0.421	0.000	0.00	6.05
79.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.617	0.421	0.000	6.66	18.09
80.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.637	0.424	0.000	0.00	4.96
80.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.637	0.424	0.000	0.00	6.79
80.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.637	0.424	0.000	2.99	6.21
80.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.637	0.424	0.000	0.00	15.16
80.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.637	0.424	0.000	0.00	9.38
80.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.637	0.424	0.000	3.51	17.86
80.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.637	0.424	0.000	0.00	6.06
80.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.637	0.424	0.000	6.68	18.11
81.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.657	0.426	0.000	0.00	4.97
81.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.657	0.426	0.000	0.00	6.80
81.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.657	0.426	0.000	3.01	6.22
81.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.657	0.426	0.000	0.00	15.17
81.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.657	0.426	0.000	0.00	9.39
81.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.657	0.426	0.000	3.52	17.87
81.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.657	0.426	0.000	0.00	6.07
81.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.657	0.426	0.000	6.71	18.14
82.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.677	0.429	0.000	0.00	4.98
82.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.677	0.429	0.000	0.00	6.81
82.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.677	0.429	0.000	3.02	6.23
82.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.677	0.429	0.000	0.00	15.19
82.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.677	0.429	0.000	0.00	9.41
82.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.677	0.429	0.000	3.54	17.89
82.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.677	0.429	0.000	0.00	6.09
82.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.677	0.429	0.000	6.74	18.16
83.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.697	0.432	0.000	0.00	4.99
83.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.697	0.432	0.000	0.00	6.82
83.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.697	0.432	0.000	3.03	6.25
83.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.697	0.432	0.000	0.00	15.20
83.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.697	0.432	0.000	0.00	9.42
83.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.697	0.432	0.000	3.55	17.90
83.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.697	0.432	0.000	0.00	6.10
83.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.697	0.432	0.000	6.76	18.19
84.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.716	0.434	0.000	0.00	5.00
84.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.716	0.434	0.000	0.00	6.83
84.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.716	0.434	0.000	3.05	6.26
84.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.716	0.434	0.000	0.00	15.22
84.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.716	0.434	0.000	0.00	9.43
84.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.716	0.434	0.000	3.57	17.92
84.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.716	0.434	0.000	0.00	6.11
84.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.716	0.434	0.000	6.79	18.21
85.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.736	0.437	0.000	0.00	5.01

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:24 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	84
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

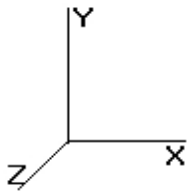
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

85.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.736	0.437	0.000	0.00	6.84
85.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.48	5.736	0.437	0.000	3.06	6.27
85.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.736	0.437	0.000	0.00	15.24
85.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.736	0.437	0.000	0.00	9.45
85.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.736	0.437	0.000	3.58	17.93
85.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.736	0.437	0.000	0.00	6.12
85.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.736	0.437	0.000	6.81	18.23
86.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.755	0.440	0.000	0.00	5.02
86.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.755	0.440	0.000	0.00	6.85
86.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.49	5.755	0.440	0.000	3.07	6.28
86.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.755	0.440	0.000	0.00	15.25
86.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.755	0.440	0.000	0.00	9.46
86.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.755	0.440	0.000	3.60	17.94
86.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.755	0.440	0.000	0.00	6.13
86.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.755	0.440	0.000	6.84	18.26
86.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	5.765	0.442	0.000	0.00	2.51
86.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	5.765	0.442	0.000	0.00	3.43
86.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.20	0.24	5.765	0.442	0.000	1.54	3.14
86.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	5.765	0.442	0.000	0.00	7.63
86.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.765	0.442	0.000	0.00	4.73
86.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.24	0.28	5.765	0.442	0.000	1.80	8.97
86.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.765	0.442	0.000	0.00	3.07
86.50	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.45	0.54	5.765	0.442	0.000	3.43	9.13
87.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	5.774	0.443	0.000	0.00	2.51
87.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	5.774	0.443	0.000	0.00	3.43
87.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.20	0.24	5.774	0.443	0.000	1.54	3.14
87.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	5.774	0.443	0.000	0.00	7.63
87.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.774	0.443	0.000	0.00	4.74
87.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.24	0.28	5.774	0.443	0.000	1.81	8.98
87.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	5.774	0.443	0.000	0.00	3.07
87.00	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.45	0.54	5.774	0.443	0.000	3.43	9.14
88.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.793	0.445	0.000	0.00	5.04
88.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.793	0.445	0.000	0.00	6.87
88.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.40	0.49	5.793	0.445	0.000	3.10	6.30
88.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.793	0.445	0.000	0.00	15.28
88.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.793	0.445	0.000	0.00	9.49
88.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.793	0.445	0.000	3.63	17.97
88.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.793	0.445	0.000	0.00	6.15
88.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.793	0.445	0.000	6.89	18.30
89.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.812	0.448	0.000	0.00	5.05
89.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.812	0.448	0.000	0.00	6.88
89.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.812	0.448	0.000	3.11	6.31
89.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.812	0.448	0.000	0.00	15.30
89.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.812	0.448	0.000	0.00	9.50
89.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.812	0.448	0.000	3.64	17.98
89.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.812	0.448	0.000	0.00	6.16
89.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.812	0.448	0.000	6.91	18.32
90.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.830	0.451	0.000	0.00	5.05
90.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.830	0.451	0.000	0.00	6.89
90.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.830	0.451	0.000	3.12	6.32
90.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.830	0.451	0.000	0.00	15.31
90.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.830	0.451	0.000	0.00	9.51
90.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.47	0.57	5.830	0.451	0.000	3.65	17.99
90.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.830	0.451	0.000	0.00	6.17
90.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.830	0.451	0.000	6.94	18.34
91.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.849	0.454	0.000	0.00	5.06
91.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.849	0.454	0.000	0.00	6.90

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:24 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	85
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

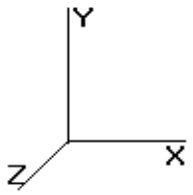
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

91.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.849	0.454	0.000	3.13	6.32
91.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.849	0.454	0.000	0.00	15.32
91.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.849	0.454	0.000	0.00	9.53
91.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	5.849	0.454	0.000	3.67	18.00
91.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.849	0.454	0.000	0.00	6.18
91.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.849	0.454	0.000	6.96	18.37
92.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.867	0.457	0.000	0.00	5.07
92.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.867	0.457	0.000	0.00	6.91
92.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.867	0.457	0.000	3.15	6.33
92.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.867	0.457	0.000	0.00	15.34
92.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.867	0.457	0.000	0.00	9.54
92.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	5.867	0.457	0.000	3.68	18.02
92.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.867	0.457	0.000	0.00	6.19
92.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.867	0.457	0.000	6.99	18.39
93.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.885	0.460	0.000	0.00	5.08
93.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.885	0.460	0.000	0.00	6.92
93.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.885	0.460	0.000	3.16	6.34
93.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.885	0.460	0.000	0.00	15.35
93.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.885	0.460	0.000	0.00	9.55
93.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	5.885	0.460	0.000	3.69	18.03
93.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.885	0.460	0.000	0.00	6.20
93.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.885	0.460	0.000	7.01	18.41
94.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.903	0.463	0.000	0.00	5.09
94.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.903	0.463	0.000	0.00	6.93
94.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.903	0.463	0.000	3.17	6.35
94.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.903	0.463	0.000	0.00	15.37
94.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.903	0.463	0.000	0.00	9.56
94.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	5.903	0.463	0.000	3.71	18.04
94.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.903	0.463	0.000	0.00	6.21
94.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.903	0.463	0.000	7.03	18.43
95.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.921	0.466	0.000	0.00	5.10
95.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.921	0.466	0.000	0.00	6.94
95.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.921	0.466	0.000	3.18	6.36
95.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.921	0.466	0.000	0.00	15.38
95.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.921	0.466	0.000	0.00	9.58
95.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	5.921	0.466	0.000	3.72	18.05
95.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.921	0.466	0.000	0.00	6.22
95.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.921	0.466	0.000	7.06	18.45
95.33	(2) 0.51" Hybrid	Yes	0.33	0.000	0.00	0.00	0.00	5.927	0.468	0.000	0.00	1.70
95.33	(2) 0.78" 8 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	5.927	0.468	0.000	0.00	2.31
95.33	(1) 1 1/4" Coax	Yes	0.33	1.200	1.55	0.14	0.16	5.927	0.468	0.000	1.06	2.12
95.33	(4) 1.24" 4 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	5.927	0.468	0.000	0.00	5.13
95.33	(6) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	5.927	0.468	0.000	0.00	3.19
95.33	(1) 3" Conduit	Yes	0.33	1.200	2.38	0.16	0.19	5.927	0.468	0.000	1.24	6.02
95.33	(6) 5/16" Coax	Yes	0.33	0.000	0.00	0.00	0.00	5.927	0.468	0.000	0.00	2.07
95.33	(4) # 20 Dywidag	Yes	0.33	1.200	7.50	0.30	0.36	5.927	0.468	0.000	2.35	6.15
96.00	(2) 0.51" Hybrid	Yes	0.67	0.000	0.00	0.00	0.00	5.939	0.470	0.000	0.00	3.41
96.00	(2) 0.78" 8 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	5.939	0.470	0.000	0.00	4.63
96.00	(1) 1 1/4" Coax	Yes	0.67	1.200	1.55	0.27	0.33	5.939	0.470	0.000	2.13	4.25
96.00	(4) 1.24" 4 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	5.939	0.470	0.000	0.00	10.27
96.00	(6) 1/2" Coax	Yes	0.67	0.000	0.00	0.00	0.00	5.939	0.470	0.000	0.00	6.39
96.00	(1) 3" Conduit	Yes	0.67	1.200	2.38	0.32	0.38	5.939	0.470	0.000	2.49	12.05
96.00	(6) 5/16" Coax	Yes	0.67	0.000	0.00	0.00	0.00	5.939	0.470	0.000	0.00	4.15
96.00	(4) # 20 Dywidag	Yes	0.67	1.200	7.50	0.60	0.72	5.939	0.470	0.000	4.72	12.32
97.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.956	0.472	0.000	0.00	5.12
97.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.956	0.472	0.000	0.00	6.96
97.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.956	0.472	0.000	3.20	6.38

Pole :	302482			Code: ANSI/TIA-222 Rev G								11/12/2014 9:57:24 AM	
Location :	North Haven CT 1, CT			Struct Class : II								Page: 86	
Height :	150.0 (ft)			Exposure Category : B									
Base Dia :	37.37 (in)			Topographic Category : 1									
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)									
Shape :	12 Sides												
Taper :	0.156666 (in/ft)												



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

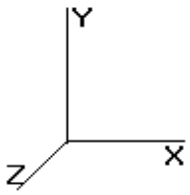
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

97.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.956	0.472	0.000	0.00	15.41
97.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.956	0.472	0.000	0.00	9.60
97.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	5.956	0.472	0.000	3.75	18.08
97.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.956	0.472	0.000	0.00	6.24
97.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.956	0.472	0.000	7.10	18.49
98.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.974	0.475	0.000	0.00	5.12
98.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.974	0.475	0.000	0.00	6.96
98.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.974	0.475	0.000	3.22	6.39
98.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.974	0.475	0.000	0.00	15.42
98.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.974	0.475	0.000	0.00	9.61
98.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	5.974	0.475	0.000	3.76	18.09
98.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.974	0.475	0.000	0.00	6.25
98.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.974	0.475	0.000	7.13	18.51
99.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	5.991	0.479	0.000	0.00	5.13
99.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.991	0.479	0.000	0.00	6.97
99.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	5.991	0.479	0.000	3.23	6.40
99.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	5.991	0.479	0.000	0.00	15.44
99.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.991	0.479	0.000	0.00	9.62
99.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	5.991	0.479	0.000	3.78	18.10
99.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	5.991	0.479	0.000	0.00	6.26
99.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.08	5.991	0.479	0.000	7.15	18.53
100.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.008	0.482	0.000	0.00	5.14
100.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.008	0.482	0.000	0.00	6.98
100.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	6.008	0.482	0.000	3.24	6.41
100.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.008	0.482	0.000	0.00	15.45
100.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.008	0.482	0.000	0.00	9.64
100.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	6.008	0.482	0.000	3.79	18.11
100.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.008	0.482	0.000	0.00	6.27
100.0	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.09	6.008	0.482	0.000	7.17	18.55
101.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.026	0.485	0.000	0.00	5.15
101.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.026	0.485	0.000	0.00	6.99
101.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.41	0.49	6.026	0.485	0.000	3.25	6.42
101.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.026	0.485	0.000	0.00	15.46
101.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.026	0.485	0.000	0.00	9.65
101.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.57	6.026	0.485	0.000	3.80	18.12
101.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.026	0.485	0.000	0.00	6.28
101.0	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.90	1.09	6.026	0.485	0.000	7.19	18.57
102.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.043	0.168	1.204	0.00	5.16
102.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.043	0.168	1.204	0.00	7.00
102.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.043	0.168	1.204	0.00	6.43
102.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.043	0.168	1.204	0.00	15.48
102.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.043	0.168	1.204	0.00	9.66
102.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.043	0.168	1.204	0.00	18.13
102.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.043	0.168	1.204	0.00	6.29
103.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.059	0.169	1.207	0.00	5.16
103.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.059	0.169	1.207	0.00	7.01
103.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.059	0.169	1.207	0.00	6.43
103.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.059	0.169	1.207	0.00	15.49
103.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.059	0.169	1.207	0.00	9.67
103.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.059	0.169	1.207	0.00	18.15
103.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.059	0.169	1.207	0.00	6.30
104.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.076	0.170	1.211	0.00	5.17
104.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.076	0.170	1.211	0.00	7.02
104.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.076	0.170	1.211	0.00	6.44
104.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.076	0.170	1.211	0.00	15.50
104.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.076	0.170	1.211	0.00	9.68
104.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.076	0.170	1.211	0.00	18.16

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:24 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 87
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

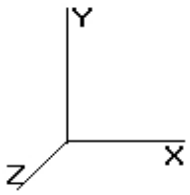
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

104.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.076	0.170	1.211	0.00	6.30
105.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.093	0.172	1.215	0.00	5.18
105.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.093	0.172	1.215	0.00	7.03
105.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.093	0.172	1.215	0.00	6.45
105.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.093	0.172	1.215	0.00	15.51
105.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.093	0.172	1.215	0.00	9.69
105.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.093	0.172	1.215	0.00	18.17
105.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.093	0.172	1.215	0.00	6.31
106.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.109	0.173	1.218	0.00	5.19
106.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.109	0.173	1.218	0.00	7.03
106.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.109	0.173	1.218	0.00	6.46
106.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.109	0.173	1.218	0.00	15.53
106.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.109	0.173	1.218	0.00	9.71
106.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.109	0.173	1.218	0.00	18.18
106.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.109	0.173	1.218	0.00	6.32
107.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.126	0.174	1.222	0.00	5.20
107.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.126	0.174	1.222	0.00	7.04
107.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.126	0.174	1.222	0.00	6.47
107.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.126	0.174	1.222	0.00	15.54
107.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.126	0.174	1.222	0.00	9.72
107.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.126	0.174	1.222	0.00	18.19
107.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.126	0.174	1.222	0.00	6.33
108.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.142	0.175	1.226	0.00	5.20
108.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.142	0.175	1.226	0.00	7.05
108.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.142	0.175	1.226	0.00	6.48
108.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.142	0.175	1.226	0.00	15.55
108.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.142	0.175	1.226	0.00	9.73
108.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.142	0.175	1.226	0.00	18.20
108.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.142	0.175	1.226	0.00	6.34
109.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.158	0.177	1.230	0.00	5.21
109.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.158	0.177	1.230	0.00	7.06
109.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.158	0.177	1.230	0.00	6.48
109.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.158	0.177	1.230	0.00	15.57
109.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.158	0.177	1.230	0.00	9.74
109.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.158	0.177	1.230	0.00	18.21
109.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.158	0.177	1.230	0.00	6.35
110.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.174	0.178	1.234	0.00	5.22
110.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.174	0.178	1.234	0.00	7.07
110.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.174	0.178	1.234	0.00	6.49
110.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.174	0.178	1.234	0.00	15.58
110.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.174	0.178	1.234	0.00	9.75
110.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.174	0.178	1.234	0.00	18.22
110.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.174	0.178	1.234	0.00	6.36
110.0	(2) 0.51" Hybrid	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.178	1.235	0.00	0.00
110.0	(2) 0.78" 8 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.178	1.235	0.00	0.00
110.0	(1) 1 1/4" Coax	Yes	0.00	0.000	1.55	0.00	0.00	6.174	0.178	1.235	0.00	0.00
110.0	(4) 1.24" 4 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.178	1.235	0.00	0.01
110.0	(6) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.178	1.235	0.00	0.00
110.0	(1) 3" Conduit	Yes	0.00	0.000	2.38	0.00	0.00	6.174	0.178	1.235	0.00	0.01
110.0	(6) 5/16" Coax	Yes	0.00	0.000	0.00	0.00	0.00	6.174	0.178	1.235	0.00	0.00
111.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.190	0.179	1.237	0.00	5.22
111.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.190	0.179	1.237	0.00	7.07
111.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.190	0.179	1.237	0.00	6.50
111.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.190	0.179	1.237	0.00	15.58
111.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.190	0.179	1.237	0.00	9.76
111.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.190	0.179	1.237	0.00	18.23
111.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.190	0.179	1.237	0.00	6.36

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:24 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	88
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

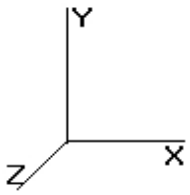
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

112.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.206	0.180	1.241	0.00	5.23
112.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.206	0.180	1.241	0.00	7.08
112.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.206	0.180	1.241	0.00	6.51
112.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.206	0.180	1.241	0.00	15.60
112.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.206	0.180	1.241	0.00	9.77
112.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.206	0.180	1.241	0.00	18.24
112.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.206	0.180	1.241	0.00	6.37
113.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.222	0.182	1.246	0.00	5.24
113.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.222	0.182	1.246	0.00	7.09
113.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.222	0.182	1.246	0.00	6.52
113.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.222	0.182	1.246	0.00	15.61
113.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.222	0.182	1.246	0.00	9.78
113.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.222	0.182	1.246	0.00	18.25
113.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.222	0.182	1.246	0.00	6.38
114.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.238	0.183	1.250	0.00	5.25
114.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.238	0.183	1.250	0.00	7.10
114.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.238	0.183	1.250	0.00	6.53
114.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.238	0.183	1.250	0.00	15.63
114.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.238	0.183	1.250	0.00	9.79
114.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.238	0.183	1.250	0.00	18.26
114.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.238	0.183	1.250	0.00	6.39
115.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.253	0.185	1.254	0.00	5.26
115.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.253	0.185	1.254	0.00	7.11
115.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.253	0.185	1.254	0.00	6.53
115.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.253	0.185	1.254	0.00	15.64
115.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.253	0.185	1.254	0.00	9.80
115.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.253	0.185	1.254	0.00	18.27
115.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.253	0.185	1.254	0.00	6.40
116.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.269	0.186	1.258	0.00	5.26
116.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.269	0.186	1.258	0.00	7.12
116.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.269	0.186	1.258	0.00	6.54
116.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.269	0.186	1.258	0.00	15.65
116.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.269	0.186	1.258	0.00	9.81
116.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.269	0.186	1.258	0.00	18.28
116.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.269	0.186	1.258	0.00	6.41
117.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.284	0.187	1.262	0.00	5.27
117.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.284	0.187	1.262	0.00	7.12
117.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.284	0.187	1.262	0.00	6.55
117.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.284	0.187	1.262	0.00	15.66
117.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.284	0.187	1.262	0.00	9.82
117.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.284	0.187	1.262	0.00	18.29
117.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.284	0.187	1.262	0.00	6.42
118.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.299	0.189	1.267	0.00	5.28
118.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.299	0.189	1.267	0.00	7.13
118.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.299	0.189	1.267	0.00	6.56
118.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.299	0.189	1.267	0.00	15.67
118.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.299	0.189	1.267	0.00	9.83
118.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.299	0.189	1.267	0.00	18.30
118.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.299	0.189	1.267	0.00	6.42
119.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.315	0.190	1.271	0.00	5.29
119.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.315	0.190	1.271	0.00	7.14
119.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.315	0.190	1.271	0.00	6.56
119.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.315	0.190	1.271	0.00	15.68
119.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.315	0.190	1.271	0.00	9.84
119.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.315	0.190	1.271	0.00	18.31
119.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.315	0.190	1.271	0.00	6.43
120.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.330	0.192	1.276	0.00	5.29

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:25 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	89
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

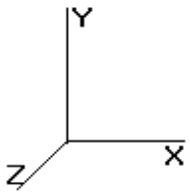
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

120.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.330	0.192	1.276	0.00	7.15
120.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.330	0.192	1.276	0.00	6.57
120.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.330	0.192	1.276	0.00	15.70
120.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.330	0.192	1.276	0.00	9.85
120.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.330	0.192	1.276	0.00	18.32
120.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.330	0.192	1.276	0.00	6.44
121.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.193	1.280	0.00	5.30
121.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.193	1.280	0.00	7.15
121.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.345	0.193	1.280	0.00	6.58
121.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.193	1.280	0.00	15.71
121.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.193	1.280	0.00	9.86
121.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.345	0.193	1.280	0.00	18.33
121.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.345	0.193	1.280	0.00	6.45
122.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.195	1.285	0.00	5.31
122.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.195	1.285	0.00	7.16
122.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.360	0.195	1.285	0.00	6.59
122.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.195	1.285	0.00	15.72
122.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.195	1.285	0.00	9.87
122.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.360	0.195	1.285	0.00	18.34
122.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.360	0.195	1.285	0.00	6.46
123.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.375	0.197	1.290	0.00	5.31
123.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.375	0.197	1.290	0.00	7.17
123.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.375	0.197	1.290	0.00	6.60
123.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.375	0.197	1.290	0.00	15.73
123.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.375	0.197	1.290	0.00	9.88
123.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.375	0.197	1.290	0.00	18.35
123.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.375	0.197	1.290	0.00	6.46
124.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.389	0.198	1.295	0.00	5.32
124.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.389	0.198	1.295	0.00	7.18
124.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.389	0.198	1.295	0.00	6.60
124.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.389	0.198	1.295	0.00	15.74
124.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.389	0.198	1.295	0.00	9.89
124.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.389	0.198	1.295	0.00	18.36
124.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.389	0.198	1.295	0.00	6.47
125.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.404	0.200	1.300	0.00	5.33
125.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.404	0.200	1.300	0.00	7.18
125.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.41	0.00	6.404	0.200	1.300	0.00	6.61
125.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.404	0.200	1.300	0.00	15.75
125.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.404	0.200	1.300	0.00	9.90
125.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.48	0.00	6.404	0.200	1.300	0.00	18.37
125.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.404	0.200	1.300	0.00	6.48
126.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.419	0.202	0.000	0.00	5.33
126.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.419	0.202	0.000	0.00	7.19
126.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.419	0.202	0.000	3.52	6.62
126.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.419	0.202	0.000	0.00	15.76
126.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.419	0.202	0.000	0.00	9.91
126.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.58	6.419	0.202	0.000	4.10	18.38
126.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.419	0.202	0.000	0.00	6.49
127.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.433	0.203	0.000	0.00	5.34
127.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.433	0.203	0.000	0.00	7.20
127.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.433	0.203	0.000	3.53	6.62
127.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.433	0.203	0.000	0.00	15.77
127.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.433	0.203	0.000	0.00	9.92
127.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.58	6.433	0.203	0.000	4.11	18.39
127.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.433	0.203	0.000	0.00	6.50
128.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.448	0.205	0.000	0.00	5.35
128.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.448	0.205	0.000	0.00	7.21

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:25 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	90
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

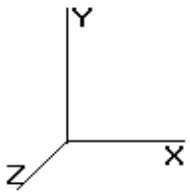
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

128.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.448	0.205	0.000	3.54	6.63
128.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.448	0.205	0.000	0.00	15.78
128.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.448	0.205	0.000	0.00	9.93
128.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.58	6.448	0.205	0.000	4.12	18.40
128.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.448	0.205	0.000	0.00	6.50
129.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.462	0.207	0.000	0.00	5.35
129.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.462	0.207	0.000	0.00	7.21
129.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.462	0.207	0.000	3.55	6.64
129.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.462	0.207	0.000	0.00	15.80
129.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.462	0.207	0.000	0.00	9.94
129.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.48	0.58	6.462	0.207	0.000	4.14	18.41
129.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.462	0.207	0.000	0.00	6.51
130.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.476	0.208	0.000	0.00	5.36
130.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.476	0.208	0.000	0.00	7.22
130.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.476	0.208	0.000	3.56	6.65
130.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.476	0.208	0.000	0.00	15.81
130.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.476	0.208	0.000	0.00	9.95
130.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.476	0.208	0.000	4.15	18.42
130.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.476	0.208	0.000	0.00	6.52
131.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.210	0.000	0.00	5.37
131.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.210	0.000	0.00	7.23
131.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.490	0.210	0.000	3.57	6.65
131.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.210	0.000	0.00	15.82
131.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.210	0.000	0.00	9.96
131.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.490	0.210	0.000	4.16	18.43
131.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.210	0.000	0.00	6.53
132.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.504	0.212	0.000	0.00	5.37
132.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.504	0.212	0.000	0.00	7.24
132.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.504	0.212	0.000	3.57	6.66
132.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.504	0.212	0.000	0.00	15.83
132.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.504	0.212	0.000	0.00	9.97
132.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.504	0.212	0.000	4.17	18.44
132.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.504	0.212	0.000	0.00	6.53
133.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.519	0.214	0.000	0.00	5.38
133.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.519	0.214	0.000	0.00	7.24
133.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.519	0.214	0.000	3.58	6.67
133.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.519	0.214	0.000	0.00	15.84
133.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.519	0.214	0.000	0.00	9.98
133.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.519	0.214	0.000	4.18	18.45
133.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.519	0.214	0.000	0.00	6.54
134.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.532	0.216	0.000	0.00	5.39
134.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.532	0.216	0.000	0.00	7.25
134.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.532	0.216	0.000	3.59	6.67
134.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.532	0.216	0.000	0.00	15.85
134.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.532	0.216	0.000	0.00	9.99
134.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.532	0.216	0.000	4.19	18.45
134.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.532	0.216	0.000	0.00	6.55
135.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.546	0.218	0.000	0.00	5.39
135.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.546	0.218	0.000	0.00	7.26
135.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.546	0.218	0.000	3.60	6.68
135.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.546	0.218	0.000	0.00	15.86
135.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.546	0.218	0.000	0.00	10.00
135.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.546	0.218	0.000	4.20	18.46
135.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.546	0.218	0.000	0.00	6.55
136.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.560	0.220	0.000	0.00	5.40
136.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.560	0.220	0.000	0.00	7.26
136.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.560	0.220	0.000	3.61	6.69

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:25 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	91
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

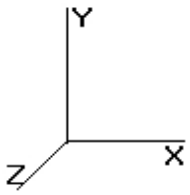
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

136.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.560	0.220	0.000	0.00	15.87
136.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.560	0.220	0.000	0.00	10.01
136.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.560	0.220	0.000	4.21	18.47
136.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.560	0.220	0.000	0.00	6.56
137.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.574	0.222	0.000	0.00	5.41
137.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.574	0.222	0.000	0.00	7.27
137.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.574	0.222	0.000	3.62	6.70
137.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.574	0.222	0.000	0.00	15.88
137.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.574	0.222	0.000	0.00	10.02
137.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.574	0.222	0.000	4.22	18.48
137.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.574	0.222	0.000	0.00	6.57
138.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.588	0.224	0.000	0.00	5.41
138.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.588	0.224	0.000	0.00	7.28
138.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.588	0.224	0.000	3.63	6.70
138.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.588	0.224	0.000	0.00	15.89
138.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.588	0.224	0.000	0.00	10.03
138.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.588	0.224	0.000	4.23	18.49
138.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.588	0.224	0.000	0.00	6.58
139.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.601	0.226	0.000	0.00	5.42
139.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.601	0.226	0.000	0.00	7.28
139.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.601	0.226	0.000	3.64	6.71
139.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.601	0.226	0.000	0.00	15.90
139.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.601	0.226	0.000	0.00	10.03
139.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.601	0.226	0.000	4.24	18.50
139.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.601	0.226	0.000	0.00	6.58
140.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.615	0.228	0.000	0.00	5.42
140.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.615	0.228	0.000	0.00	7.29
140.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.615	0.228	0.000	3.65	6.72
140.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.615	0.228	0.000	0.00	15.91
140.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.615	0.228	0.000	0.00	10.04
140.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.615	0.228	0.000	4.25	18.51
140.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.615	0.228	0.000	0.00	6.59
141.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.628	0.230	0.000	0.00	5.43
141.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.628	0.230	0.000	0.00	7.30
141.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.628	0.230	0.000	3.66	6.72
141.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.628	0.230	0.000	0.00	15.92
141.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.628	0.230	0.000	0.00	10.05
141.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.58	6.628	0.230	0.000	4.26	18.52
141.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.628	0.230	0.000	0.00	6.60
142.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.642	0.232	0.000	0.00	5.44
142.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.642	0.232	0.000	0.00	7.30
142.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.642	0.232	0.000	3.67	6.73
142.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.642	0.232	0.000	0.00	15.93
142.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.642	0.232	0.000	0.00	10.06
142.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.59	6.642	0.232	0.000	4.27	18.52
142.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.642	0.232	0.000	0.00	6.60
143.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.655	0.235	0.000	0.00	5.44
143.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.655	0.235	0.000	0.00	7.31
143.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.655	0.235	0.000	3.68	6.74
143.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.655	0.235	0.000	0.00	15.94
143.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.655	0.235	0.000	0.00	10.07
143.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.59	6.655	0.235	0.000	4.29	18.53
143.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.655	0.235	0.000	0.00	6.61
144.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.668	0.237	0.000	0.00	5.45
144.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.668	0.237	0.000	0.00	7.32
144.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.668	0.237	0.000	3.69	6.74
144.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.668	0.237	0.000	0.00	15.95

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:25 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 92**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Load Case: **1.2D + 1.0Di + 1.0Wi** — **50.00 mph with 0.75 in Radial Ice** — **34 Iterations**

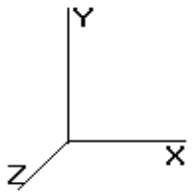
Gust Response Factor : 1.10 — **Ice Dead Load Factor : 1.00** — **Wind Importance Factor : 1.00**

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

Wind Load Factor : 1.00

144.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.668	0.237	0.000	0.00	10.08
144.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.59	6.668	0.237	0.000	4.30	18.54
144.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.668	0.237	0.000	0.00	6.62
145.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.681	0.239	0.000	0.00	5.46
145.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.681	0.239	0.000	0.00	7.32
145.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.681	0.239	0.000	3.70	6.75
145.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.681	0.239	0.000	0.00	15.96
145.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.681	0.239	0.000	0.00	10.09
145.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.59	6.681	0.239	0.000	4.31	18.55
145.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.681	0.239	0.000	0.00	6.63
146.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.695	0.242	0.000	0.00	5.46
146.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.695	0.242	0.000	0.00	7.33
146.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.42	0.50	6.695	0.242	0.000	3.70	6.76
146.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.695	0.242	0.000	0.00	15.97
146.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.695	0.242	0.000	0.00	10.10
146.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.49	0.59	6.695	0.242	0.000	4.32	18.56
146.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.695	0.242	0.000	0.00	6.63
147.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.708	0.096	0.000	0.00	5.47
147.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.708	0.096	0.000	0.00	7.34
147.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.42	0.00	6.708	0.096	0.000	0.00	6.76
147.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.708	0.096	0.000	0.00	15.98
148.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.721	0.097	0.000	0.00	5.47
148.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.721	0.097	0.000	0.00	7.34
148.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.42	0.00	6.721	0.097	0.000	0.00	6.77
148.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.721	0.097	0.000	0.00	15.99
149.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.734	0.098	0.000	0.00	5.48
149.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.734	0.098	0.000	0.00	7.35
149.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.42	0.00	6.734	0.098	0.000	0.00	6.77
149.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.734	0.098	0.000	0.00	16.00
150.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.746	0.099	0.000	0.00	5.49
150.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.746	0.099	0.000	0.00	7.36
150.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.42	0.00	6.746	0.099	0.000	0.00	6.78
150.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.746	0.099	0.000	0.00	16.01
										Totals:	**1,264.61**	**10,996.87**

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Load Case: **1.2D + 1.0Di + 1.0Wi** — **50.00 mph with 0.75 in Radial Ice** — **34 Iterations**

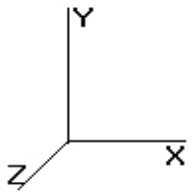
Gust Response Factor : 1.10 — **Ice Dead Load Factor : 1.00** — **Wind Importance Factor : 1.00**

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

Wind Load Factor : 1.00

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
1.00	19.07	312.94	0.00	0.00
2.00	19.06	316.60	0.00	0.00
3.00	19.03	318.48	0.00	0.00
4.00	18.99	319.58	0.00	0.00
5.00	18.94	320.24	0.00	0.00
6.00	27.79	388.02	0.00	0.00
7.00	27.78	388.90	0.00	0.00
8.00	27.77	389.55	0.00	0.00
9.00	27.75	390.02	0.00	0.00
10.00	27.73	390.34	0.00	0.00
11.00	27.70	390.54	0.00	0.00
12.00	27.67	390.64	0.00	0.00
12.50	13.82	195.23	0.00	0.00
13.00	13.81	195.23	0.00	0.00
14.00	27.60	390.61	0.00	0.00
15.00	27.56	390.49	0.00	0.00
16.00	27.51	390.31	0.00	0.00
17.00	27.47	390.08	0.00	0.00
18.00	27.42	389.81	0.00	0.00
19.00	27.38	389.50	0.00	0.00
20.00	27.33	389.16	0.00	0.00
21.00	27.28	388.78	0.00	0.00
22.00	27.23	388.37	0.00	0.00
23.00	27.18	387.93	0.00	0.00
24.00	27.12	387.46	0.00	0.00
25.00	27.07	386.97	0.00	0.00
26.00	27.02	386.46	0.00	0.00
27.00	26.96	385.93	0.00	0.00
28.00	26.90	385.38	0.00	0.00
29.00	26.85	384.81	0.00	0.00
30.00	26.81	384.23	0.00	0.00
31.00	27.01	383.63	0.00	0.00
31.50	13.55	191.69	0.00	0.00
32.00	13.73	259.05	0.00	0.00
33.00	27.69	517.53	0.00	0.00
34.00	27.86	516.24	0.00	0.00
35.00	28.03	514.95	0.00	0.00
35.67	18.76	342.73	0.00	0.00
36.00	9.38	119.35	0.00	0.00
37.00	28.35	358.08	0.00	0.00
38.00	28.50	357.52	0.00	0.00
39.00	28.65	356.95	0.00	0.00
40.00	28.79	356.37	0.00	0.00
41.00	28.93	355.78	0.00	0.00
42.00	29.06	355.19	0.00	0.00
43.00	29.19	354.58	0.00	0.00
44.00	29.31	353.96	0.00	0.00
45.00	29.43	353.34	0.00	0.00
46.00	29.54	352.71	0.00	0.00



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

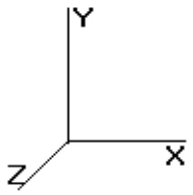
Gust Response Factor : 1.10
Dead Load Factor : 1.20
Wind Load Factor : 1.00

Ice Dead Load Factor : 1.00

Wind Importance Factor : 1.00
Ice Importance Factor : 1.00

47.00	29.65	352.07	0.00	0.00
48.00	29.76	351.43	0.00	0.00
49.00	29.86	350.77	0.00	0.00
50.00	29.96	350.11	0.00	0.00
51.00	30.05	349.45	0.00	0.00
52.00	30.14	348.78	0.00	0.00
53.00	30.23	348.10	0.00	0.00
54.00	30.32	347.42	0.00	0.00
55.00	30.40	346.73	0.00	0.00
56.00	30.48	346.03	0.00	0.00
57.00	30.55	345.33	0.00	0.00
58.00	30.63	344.63	0.00	0.00
59.00	30.70	343.92	0.00	0.00
60.00	30.76	343.20	0.00	0.00
61.00	30.83	342.48	0.00	0.00
62.00	30.89	341.76	0.00	0.00
63.00	30.95	341.03	0.00	0.00
64.00	31.01	340.30	0.00	0.00
65.00	31.06	339.56	0.00	0.00
66.00	31.11	338.82	0.00	0.00
67.00	31.16	338.07	0.00	0.00
68.00	31.21	337.33	0.00	0.00
69.00	31.26	336.57	0.00	0.00
70.00	31.30	335.82	0.00	0.00
70.00	0.01	0.11	0.00	0.00
71.00	31.64	425.39	0.00	0.00
72.00	31.69	424.25	0.00	0.00
73.00	31.73	422.97	0.00	0.00
73.50	15.87	211.16	0.00	0.00
74.00	15.86	156.91	0.00	0.00
75.00	31.80	313.51	0.00	0.00
76.00	31.83	312.86	0.00	0.00
77.00	31.86	312.21	0.00	0.00
78.00	31.89	311.56	0.00	0.00
79.00	31.91	310.91	0.00	0.00
80.00	31.94	310.25	0.00	0.00
81.00	31.96	309.59	0.00	0.00
82.00	31.98	308.92	0.00	0.00
83.00	32.00	308.25	0.00	0.00
84.00	32.02	307.59	0.00	0.00
85.00	32.04	306.91	0.00	0.00
86.00	32.05	306.24	0.00	0.00
86.50	16.02	152.89	0.00	0.00
87.00	16.02	152.72	0.00	0.00
88.00	32.07	304.88	0.00	0.00
89.00	32.08	304.20	0.00	0.00
90.00	32.09	303.52	0.00	0.00
91.00	32.10	302.83	0.00	0.00
92.00	32.10	302.14	0.00	0.00
93.00	32.11	301.45	0.00	0.00
94.00	32.11	300.75	0.00	0.00
95.00	32.11	300.06	0.00	0.00
95.33	10.69	99.84	0.00	0.00
96.00	21.40	155.02	0.00	0.00
97.00	32.11	231.86	0.00	0.00
98.00	32.10	231.16	0.00	0.00
99.00	32.10	230.46	0.00	0.00

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:25 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 95**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Load Case: **1.2D + 1.0Di + 1.0Wi** **50.00 mph with 0.75 in Radial Ice** **34 Iterations**

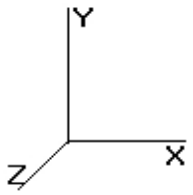
Gust Response Factor : 1.10 **Ice Dead Load Factor : 1.00** **Wind Importance Factor : 1.00**

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

Wind Load Factor : 1.00

100.0		32.09	229.75	0.00	0.00
101.0		32.09	229.04	0.00	0.00
102.0		17.78	209.74	0.00	0.00
103.0		17.73	209.01	0.00	0.00
104.0		17.67	208.28	0.00	0.00
105.0		17.61	207.54	0.00	0.00
106.0		17.55	206.81	0.00	0.00
107.0		17.49	206.07	0.00	0.00
108.0		654.14	4,194.31	0.00	0.00
109.0		17.37	192.78	0.00	0.00
110.0		17.31	192.04	0.00	0.00
110.0		0.01	0.06	0.00	0.00
111.0		17.24	174.18	0.00	0.00
112.0		17.18	173.62	0.00	0.00
113.0		17.11	173.01	0.00	0.00
114.0		17.05	172.39	0.00	0.00
115.0		16.98	171.77	0.00	0.00
116.0		16.91	171.14	0.00	0.00
117.0		16.84	170.52	0.00	0.00
118.0		16.77	169.89	0.00	0.00
119.0		16.70	169.27	0.00	0.00
120.0		16.63	168.64	0.00	0.00
121.0		16.56	168.01	0.00	0.00
122.0		16.49	167.38	0.00	0.00
123.0		16.42	166.75	0.00	0.00
124.0		16.34	166.11	0.00	0.00
125.0		16.27	165.48	0.00	0.00
126.0		23.81	164.84	0.00	0.00
127.0		23.75	164.21	0.00	0.00
128.0		23.70	163.57	0.00	0.00
129.0		23.64	162.93	0.00	0.00
130.0		23.58	162.29	0.00	0.00
131.0		23.53	161.65	0.00	0.00
132.0		23.47	161.00	0.00	0.00
133.0		23.41	160.36	0.00	0.00
134.0		23.35	159.71	0.00	0.00
135.0		23.28	159.07	0.00	0.00
136.0		23.22	158.42	0.00	0.00
137.0		23.16	157.77	0.00	0.00
138.0		23.09	157.12	0.00	0.00
139.0		23.03	156.47	0.00	0.00
140.0		22.96	155.82	0.00	0.00
141.0		22.90	155.17	0.00	0.00
142.0		22.83	154.52	0.00	0.00
143.0		22.76	153.86	0.00	0.00
144.0		22.70	153.21	0.00	0.00
145.0		22.63	152.55	0.00	0.00
146.0		340.02	1,525.44	0.00	0.00
147.0		14.45	115.92	0.00	0.00
148.0		14.36	115.24	0.00	0.00
149.0		14.27	114.56	0.00	0.00
150.0		1,008.29	8,737.10	0.00	1,990.95
	Totals:	**5,863.38**	**57,611.70**	**0.00**	**1,990.95**

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:25 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 96**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Load Case: **1.2D + 1.0Di + 1.0Wi** **50.00 mph with 0.75 in Radial Ice** **34 Iterations**

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

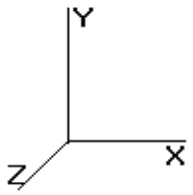
Dead Load Factor : 1.20 **Ice Importance Factor : 1.00**

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	-57.61	-5.87	0.00	-611.84	0.00	611.84	3,133.39	1,566.70	4,775.40	2,358.39	0.00	0.00	0.175
1.00	-57.30	-5.86	0.00	-605.97	0.00	605.97	3,125.01	1,562.51	4,742.26	2,342.02	0.00	-0.01	0.175
2.00	-56.98	-5.86	0.00	-600.11	0.00	600.11	3,116.59	1,558.30	4,709.17	2,325.68	0.01	-0.03	0.174
3.00	-56.66	-5.85	0.00	-594.25	0.00	594.25	3,108.13	1,554.07	4,676.12	2,309.36	0.01	-0.04	0.173
4.00	-56.34	-5.85	0.00	-588.40	0.00	588.40	3,099.63	1,549.81	4,643.13	2,293.07	0.02	-0.06	0.172
5.00	-56.02	-5.84	0.00	-582.55	0.00	582.55	3,091.08	1,545.54	4,610.18	2,276.80	0.04	-0.07	0.171
6.00	-55.63	-5.83	0.00	-576.71	0.00	576.71	3,082.50	1,541.25	4,577.28	2,260.55	0.05	-0.08	0.170
7.00	-55.24	-5.81	0.00	-570.88	0.00	570.88	3,073.87	1,536.93	4,544.44	2,244.33	0.07	-0.10	0.169
8.00	-54.85	-5.80	0.00	-565.07	0.00	565.07	3,065.20	1,532.60	4,511.64	2,228.13	0.09	-0.11	0.169
9.00	-54.45	-5.78	0.00	-559.28	0.00	559.28	3,056.49	1,528.24	4,478.89	2,211.96	0.12	-0.13	0.168
10.00	-54.06	-5.77	0.00	-553.50	0.00	553.50	3,047.73	1,523.87	4,446.20	2,195.81	0.15	-0.14	0.167
11.00	-53.67	-5.75	0.00	-547.73	0.00	547.73	3,038.94	1,519.47	4,413.57	2,179.69	0.18	-0.15	0.166
12.00	-53.28	-5.73	0.00	-541.98	0.00	541.98	3,030.10	1,515.05	4,380.98	2,163.60	0.21	-0.17	0.165
12.50	-53.08	-5.72	0.00	-539.12	0.00	539.12	3,025.67	1,512.83	4,364.71	2,155.57	0.23	-0.17	0.165
12.50	-53.08	-5.72	0.00	-539.12	0.00	539.12	3,025.67	1,512.83	4,364.71	2,155.57	0.23	-0.17	0.165
13.00	-52.89	-5.72	0.00	-536.25	0.00	536.25	3,021.22	1,510.61	4,348.46	2,147.54	0.25	-0.18	0.164
14.00	-52.49	-5.70	0.00	-530.54	0.00	530.54	3,012.30	1,506.15	4,315.98	2,131.50	0.29	-0.20	0.163
15.00	-52.10	-5.69	0.00	-524.83	0.00	524.83	3,003.34	1,501.67	4,283.57	2,115.49	0.33	-0.21	0.162
16.00	-51.71	-5.67	0.00	-519.15	0.00	519.15	2,994.34	1,497.17	4,251.21	2,099.51	0.38	-0.22	0.161
17.00	-51.32	-5.65	0.00	-513.48	0.00	513.48	2,985.30	1,492.65	4,218.92	2,083.56	0.42	-0.24	0.160
18.00	-50.93	-5.64	0.00	-507.82	0.00	507.82	2,976.21	1,488.11	4,186.68	2,067.64	0.48	-0.25	0.159
19.00	-50.54	-5.62	0.00	-502.19	0.00	502.19	2,967.08	1,483.54	4,154.50	2,051.75	0.53	-0.27	0.159
20.00	-50.15	-5.60	0.00	-496.57	0.00	496.57	2,957.91	1,478.96	4,122.38	2,035.89	0.59	-0.28	0.158
21.00	-49.76	-5.59	0.00	-490.96	0.00	490.96	2,948.70	1,474.35	4,090.33	2,020.06	0.65	-0.29	0.157
22.00	-49.37	-5.57	0.00	-485.38	0.00	485.38	2,939.45	1,469.73	4,058.33	2,004.26	0.71	-0.31	0.156
23.00	-48.98	-5.55	0.00	-479.81	0.00	479.81	2,930.16	1,465.08	4,026.41	1,988.49	0.78	-0.32	0.155
24.00	-48.59	-5.53	0.00	-474.26	0.00	474.26	2,920.82	1,460.41	3,994.54	1,972.75	0.85	-0.34	0.154
25.00	-48.20	-5.52	0.00	-468.72	0.00	468.72	2,911.45	1,455.72	3,962.74	1,957.05	0.92	-0.35	0.153
26.00	-47.81	-5.50	0.00	-463.21	0.00	463.21	2,902.03	1,451.01	3,931.01	1,941.38	0.99	-0.36	0.152
27.00	-47.43	-5.48	0.00	-457.71	0.00	457.71	2,892.57	1,446.28	3,899.34	1,925.74	1.07	-0.38	0.151
28.00	-47.04	-5.46	0.00	-452.23	0.00	452.23	2,883.07	1,441.53	3,867.74	1,910.13	1.15	-0.39	0.150
29.00	-46.66	-5.45	0.00	-446.76	0.00	446.76	2,873.52	1,436.76	3,836.21	1,894.56	1.24	-0.41	0.149
30.00	-46.27	-5.43	0.00	-441.32	0.00	441.32	2,863.94	1,431.97	3,804.75	1,879.02	1.32	-0.42	0.148
31.00	-45.89	-5.41	0.00	-435.89	0.00	435.89	2,854.31	1,427.16	3,773.36	1,863.52	1.41	-0.43	0.147
31.50	-45.69	-5.40	0.00	-433.19	0.00	433.19	2,849.48	1,424.74	3,757.68	1,855.78	1.46	-0.44	0.146
32.00	-45.43	-5.39	0.00	-430.49	0.00	430.49	2,844.65	1,422.32	3,742.04	1,848.05	1.50	-0.45	0.144
33.00	-44.91	-5.37	0.00	-425.10	0.00	425.10	2,833.03	1,416.51	3,708.29	1,831.38	1.60	-0.46	0.143
34.00	-44.40	-5.35	0.00	-419.73	0.00	419.73	2,819.08	1,409.54	3,671.66	1,813.30	1.70	-0.48	0.142
35.00	-43.88	-5.32	0.00	-414.39	0.00	414.39	2,805.14	1,402.57	3,635.22	1,795.30	1.80	-0.49	0.141
35.67	-43.54	-5.31	0.00	-410.84	0.00	410.84	2,230.91	1,115.46	2,950.86	1,457.32	1.87	-0.50	0.164
36.00	-43.42	-5.30	0.00	-409.07	0.00	409.07	2,228.70	1,114.35	2,943.10	1,453.48	1.90	-0.50	0.163
37.00	-43.06	-5.28	0.00	-403.77	0.00	403.77	2,222.04	1,111.02	2,919.81	1,441.99	2.01	-0.52	0.162
38.00	-42.70	-5.26	0.00	-398.48	0.00	398.48	2,215.33	1,107.67	2,896.56	1,430.50	2.12	-0.53	0.161
39.00	-42.34	-5.24	0.00	-393.22	0.00	393.22	2,208.58	1,104.29	2,873.35	1,419.04	2.23	-0.55	0.159
40.00	-41.99	-5.22	0.00	-387.98	0.00	387.98	2,201.80	1,100.90	2,850.16	1,407.59	2.35	-0.56	0.158
41.00	-41.63	-5.20	0.00	-382.76	0.00	382.76	2,194.97	1,097.48	2,827.01	1,396.16	2.47	-0.58	0.157
42.00	-41.27	-5.18	0.00	-377.57	0.00	377.57	2,188.09	1,094.05	2,803.90	1,384.74	2.59	-0.59	0.155
43.00	-40.92	-5.15	0.00	-372.39	0.00	372.39	2,181.18	1,090.59	2,780.83	1,373.35	2.72	-0.61	0.154
44.00	-40.56	-5.13	0.00	-367.24	0.00	367.24	2,174.23	1,087.11	2,757.79	1,361.97	2.85	-0.62	0.153
45.00	-40.21	-5.11	0.00	-362.11	0.00	362.11	2,167.23	1,083.61	2,734.79	1,350.61	2.98	-0.64	0.151
46.00	-39.85	-5.08	0.00	-357.00	0.00	357.00	2,160.19	1,080.10	2,711.83	1,339.27	3.11	-0.65	0.150

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:25 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 97
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

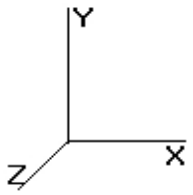
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

47.00	-39.50	-5.06	0.00	-351.92	0.00	351.92	2,153.11	1,076.56	2,688.91	1,327.95	3.25	-0.66	0.149
48.00	-39.15	-5.04	0.00	-346.86	0.00	346.86	2,145.99	1,073.00	2,666.03	1,316.65	3.39	-0.68	0.147
49.00	-38.80	-5.01	0.00	-341.82	0.00	341.82	2,138.83	1,069.41	2,643.19	1,305.37	3.54	-0.69	0.146
50.00	-38.45	-4.99	0.00	-336.81	0.00	336.81	2,131.62	1,065.81	2,620.39	1,294.11	3.68	-0.71	0.145
51.00	-38.10	-4.96	0.00	-331.83	0.00	331.83	2,124.38	1,062.19	2,597.64	1,282.88	3.83	-0.72	0.143
52.00	-37.75	-4.94	0.00	-326.87	0.00	326.87	2,117.09	1,058.55	2,574.93	1,271.66	3.98	-0.74	0.142
53.00	-37.40	-4.91	0.00	-321.93	0.00	321.93	2,109.76	1,054.88	2,552.26	1,260.47	4.14	-0.75	0.140
54.00	-37.05	-4.89	0.00	-317.02	0.00	317.02	2,102.39	1,051.20	2,529.64	1,249.30	4.30	-0.76	0.139
55.00	-36.70	-4.86	0.00	-312.13	0.00	312.13	2,094.98	1,047.49	2,507.07	1,238.15	4.46	-0.78	0.138
56.00	-36.35	-4.83	0.00	-307.28	0.00	307.28	2,087.53	1,043.76	2,484.55	1,227.02	4.63	-0.79	0.136
57.00	-36.01	-4.81	0.00	-302.44	0.00	302.44	2,080.03	1,040.02	2,462.07	1,215.92	4.79	-0.81	0.135
58.00	-35.66	-4.78	0.00	-297.64	0.00	297.64	2,072.49	1,036.25	2,439.64	1,204.85	4.96	-0.82	0.133
59.00	-35.32	-4.75	0.00	-292.86	0.00	292.86	2,064.92	1,032.46	2,417.26	1,193.79	5.14	-0.83	0.132
60.00	-34.97	-4.73	0.00	-288.10	0.00	288.10	2,057.30	1,028.65	2,394.93	1,182.77	5.31	-0.85	0.131
61.00	-34.63	-4.70	0.00	-283.38	0.00	283.38	2,049.63	1,024.82	2,372.65	1,171.76	5.49	-0.86	0.129
62.00	-34.29	-4.67	0.00	-278.68	0.00	278.68	2,041.93	1,020.97	2,350.43	1,160.79	5.67	-0.88	0.128
63.00	-33.95	-4.64	0.00	-274.01	0.00	274.01	2,034.19	1,017.09	2,328.25	1,149.84	5.86	-0.89	0.126
64.00	-33.61	-4.61	0.00	-269.37	0.00	269.37	2,026.40	1,013.20	2,306.13	1,138.91	6.05	-0.90	0.125
65.00	-33.27	-4.58	0.00	-264.76	0.00	264.76	2,018.57	1,009.29	2,284.07	1,128.02	6.24	-0.92	0.124
66.00	-32.93	-4.56	0.00	-260.17	0.00	260.17	2,010.70	1,005.35	2,262.06	1,117.15	6.43	-0.93	0.122
67.00	-32.59	-4.53	0.00	-255.62	0.00	255.62	2,002.79	1,001.40	2,240.11	1,106.30	6.63	-0.94	0.121
68.00	-32.25	-4.50	0.00	-251.09	0.00	251.09	1,994.84	997.42	2,218.21	1,095.49	6.83	-0.96	0.119
69.00	-31.91	-4.47	0.00	-246.59	0.00	246.59	1,986.85	993.42	2,196.37	1,084.71	7.03	-0.97	0.118
70.00	-31.58	-4.43	0.00	-242.13	0.00	242.13	1,978.81	989.40	2,174.59	1,073.95	7.23	-0.98	0.116
70.00	-31.58	-4.44	0.00	-242.13	0.00	242.13	1,978.81	989.40	2,174.58	1,073.95	7.23	-0.98	0.116
71.00	-31.15	-4.41	0.00	-237.69	0.00	237.69	1,970.29	985.14	2,152.38	1,062.98	7.44	-1.00	0.113
72.00	-30.73	-4.37	0.00	-233.28	0.00	233.28	1,958.67	979.33	2,126.92	1,050.41	7.65	-1.01	0.112
73.00	-30.30	-4.34	0.00	-228.91	0.00	228.91	1,947.05	973.52	2,101.61	1,037.91	7.87	-1.02	0.111
73.50	-30.09	-4.32	0.00	-226.74	0.00	226.74	1,462.56	731.28	1,611.85	796.03	7.97	-1.03	0.131
74.00	-29.94	-4.31	0.00	-224.58	0.00	224.58	1,460.05	730.02	1,604.32	792.31	8.08	-1.04	0.130
75.00	-29.62	-4.28	0.00	-220.27	0.00	220.27	1,454.98	727.49	1,589.27	784.88	8.30	-1.05	0.128
76.00	-29.31	-4.25	0.00	-215.99	0.00	215.99	1,449.87	724.94	1,574.24	777.46	8.52	-1.06	0.126
77.00	-29.00	-4.22	0.00	-211.74	0.00	211.74	1,444.73	722.36	1,559.24	770.05	8.74	-1.08	0.124
78.00	-28.68	-4.19	0.00	-207.52	0.00	207.52	1,439.54	719.77	1,544.25	762.65	8.97	-1.09	0.122
79.00	-28.37	-4.16	0.00	-203.33	0.00	203.33	1,434.31	717.15	1,529.29	755.26	9.20	-1.10	0.121
80.00	-28.06	-4.12	0.00	-199.17	0.00	199.17	1,429.03	714.52	1,514.36	747.88	9.43	-1.12	0.119
81.00	-27.75	-4.09	0.00	-195.05	0.00	195.05	1,423.72	711.86	1,499.45	740.52	9.67	-1.13	0.117
82.00	-27.44	-4.06	0.00	-190.96	0.00	190.96	1,418.36	709.18	1,484.56	733.17	9.91	-1.14	0.115
83.00	-27.13	-4.03	0.00	-186.90	0.00	186.90	1,412.96	706.48	1,469.70	725.83	10.15	-1.16	0.113
84.00	-26.83	-4.00	0.00	-182.87	0.00	182.87	1,407.53	703.76	1,454.87	718.51	10.39	-1.17	0.111
85.00	-26.52	-3.96	0.00	-178.87	0.00	178.87	1,402.05	701.02	1,440.07	711.20	10.64	-1.18	0.110
86.00	-26.21	-3.93	0.00	-174.91	0.00	174.91	1,396.52	698.26	1,425.29	703.90	10.89	-1.19	0.108
86.50	-26.06	-3.91	0.00	-172.94	0.00	172.94	1,393.75	696.87	1,417.92	700.26	11.01	-1.20	0.107
86.50	-26.06	-3.91	0.00	-172.94	0.00	172.94	1,393.75	696.87	1,417.92	700.26	11.01	-1.20	0.107
87.00	-25.91	-3.90	0.00	-170.98	0.00	170.98	1,390.96	695.48	1,410.55	696.62	11.14	-1.21	0.106
88.00	-25.60	-3.87	0.00	-167.09	0.00	167.09	1,385.35	692.68	1,395.84	689.35	11.39	-1.22	0.104
89.00	-25.30	-3.83	0.00	-163.22	0.00	163.22	1,379.71	689.85	1,381.15	682.10	11.65	-1.23	0.102
90.00	-24.99	-3.80	0.00	-159.39	0.00	159.39	1,374.02	687.01	1,366.50	674.86	11.91	-1.24	0.100
91.00	-24.69	-3.77	0.00	-155.59	0.00	155.59	1,368.29	684.14	1,351.89	667.65	12.17	-1.25	0.099
92.00	-24.39	-3.73	0.00	-151.82	0.00	151.82	1,362.52	681.26	1,337.30	660.44	12.43	-1.27	0.097
93.00	-24.09	-3.70	0.00	-148.09	0.00	148.09	1,356.70	678.35	1,322.75	653.26	12.70	-1.28	0.095
94.00	-23.79	-3.66	0.00	-144.39	0.00	144.39	1,350.85	675.42	1,308.24	646.09	12.97	-1.29	0.093
95.00	-23.49	-3.63	0.00	-140.73	0.00	140.73	1,344.95	672.48	1,293.77	638.94	13.24	-1.30	0.091
95.33	-23.39	-3.62	0.00	-139.52	0.00	139.52	1,342.98	671.49	1,288.95	636.56	13.33	-1.31	0.091
95.33	-23.39	-3.62	0.00	-139.52	0.00	139.52	1,342.98	671.49	1,288.95	636.56	13.33	-1.31	0.237
96.00	-23.23	-3.60	0.00	-137.11	0.00	137.11	1,339.02	669.51	1,279.33	631.81	13.51	-1.31	0.234
97.00	-23.00	-3.58	0.00	-133.51	0.00	133.51	1,333.04	666.52	1,264.93	624.70	13.79	-1.34	0.231

Pole :	302482	Code: ANSI/TIA-222 Rev G	
Location :	North Haven CT 1, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.2D + 1.0Di + 1.0Wi — 50.00 mph with 0.75 in Radial Ice — 34 Iterations

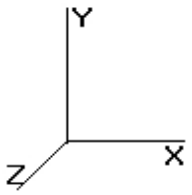
Gust Response Factor : 1.10 — Ice Dead Load Factor : 1.00 — Wind Importance Factor : 1.00

Dead Load Factor : 1.20 — Ice Importance Factor : 1.00

Wind Load Factor : 1.00

98.00	-22.77	-3.55	0.00	-129.93	0.00	129.93	1,327.01	663.51	1,250.56	617.61	14.08	-1.37	0.228
99.00	-22.54	-3.52	0.00	-126.38	0.00	126.38	1,320.95	660.48	1,236.24	610.53	14.37	-1.40	0.224
100.00	-22.31	-3.50	0.00	-122.86	0.00	122.86	1,314.85	657.42	1,221.96	603.48	14.66	-1.43	0.221
101.00	-22.08	-3.47	0.00	-119.36	0.00	119.36	1,308.70	654.35	1,207.72	596.45	14.97	-1.46	0.217
102.00	-21.86	-3.46	0.00	-115.89	0.00	115.89	1,302.51	651.26	1,193.52	589.43	15.28	-1.49	0.213
103.00	-21.65	-3.45	0.00	-112.44	0.00	112.44	1,296.29	648.14	1,179.36	582.44	15.59	-1.52	0.210
104.00	-21.44	-3.43	0.00	-108.99	0.00	108.99	1,290.02	645.01	1,165.25	575.47	15.91	-1.55	0.206
105.00	-21.24	-3.42	0.00	-105.56	0.00	105.56	1,283.70	641.85	1,151.18	568.52	16.24	-1.57	0.202
106.00	-21.03	-3.41	0.00	-102.14	0.00	102.14	1,277.35	638.67	1,137.16	561.60	16.57	-1.60	0.198
107.00	-20.82	-3.39	0.00	-98.73	0.00	98.73	1,270.95	635.48	1,123.18	554.70	16.91	-1.63	0.194
108.00	-16.65	-2.63	0.00	-95.34	0.00	95.34	1,264.52	632.26	1,109.25	547.82	17.26	-1.66	0.187
109.00	-16.45	-2.61	0.00	-92.71	0.00	92.71	1,256.36	628.18	1,093.90	540.24	17.61	-1.68	0.185
110.00	-16.26	-2.59	0.00	-90.10	0.00	90.10	1,247.06	623.53	1,077.68	532.23	17.96	-1.71	0.182
110.00	-16.26	-2.60	0.00	-90.10	0.00	90.10	1,247.06	623.53	1,077.67	532.22	17.96	-1.71	0.182
110.00	-16.26	-2.60	0.00	-90.10	0.00	90.10	846.51	423.26	735.89	363.43	17.96	-1.71	0.267
111.00	-16.09	-2.58	0.00	-87.50	0.00	87.50	843.00	421.50	727.35	359.21	18.32	-1.74	0.263
112.00	-15.91	-2.57	0.00	-84.92	0.00	84.92	839.44	419.72	718.80	354.99	18.69	-1.77	0.258
113.00	-15.74	-2.56	0.00	-82.35	0.00	82.35	835.84	417.92	710.28	350.78	19.06	-1.81	0.254
114.00	-15.56	-2.54	0.00	-79.79	0.00	79.79	832.20	416.10	701.76	346.57	19.45	-1.84	0.249
115.00	-15.39	-2.53	0.00	-77.25	0.00	77.25	828.52	414.26	693.25	342.37	19.83	-1.87	0.244
116.00	-15.22	-2.52	0.00	-74.72	0.00	74.72	824.80	412.40	684.76	338.18	20.23	-1.91	0.239
117.00	-15.05	-2.50	0.00	-72.20	0.00	72.20	821.03	410.52	676.28	333.99	20.63	-1.94	0.235
118.00	-14.88	-2.49	0.00	-69.70	0.00	69.70	817.23	408.61	667.82	329.81	21.04	-1.97	0.230
119.00	-14.71	-2.47	0.00	-67.21	0.00	67.21	813.38	406.69	659.38	325.64	21.46	-2.01	0.225
120.00	-14.54	-2.46	0.00	-64.74	0.00	64.74	809.49	404.75	650.95	321.48	21.88	-2.04	0.219
121.00	-14.37	-2.45	0.00	-62.28	0.00	62.28	805.56	402.78	642.54	317.32	22.31	-2.07	0.214
122.00	-14.20	-2.43	0.00	-59.83	0.00	59.83	801.59	400.79	634.14	313.18	22.75	-2.10	0.209
123.00	-14.03	-2.42	0.00	-57.40	0.00	57.40	797.57	398.79	625.77	309.04	23.19	-2.13	0.203
124.00	-13.87	-2.40	0.00	-54.99	0.00	54.99	793.52	396.76	617.41	304.92	23.64	-2.16	0.198
125.00	-13.70	-2.38	0.00	-52.59	0.00	52.59	789.42	394.71	609.08	300.80	24.10	-2.19	0.192
126.00	-13.54	-2.36	0.00	-50.21	0.00	50.21	785.28	392.64	600.77	296.70	24.56	-2.22	0.186
127.00	-13.37	-2.34	0.00	-47.85	0.00	47.85	781.10	390.55	592.48	292.60	25.03	-2.25	0.181
128.00	-13.21	-2.31	0.00	-45.51	0.00	45.51	776.88	388.44	584.21	288.52	25.50	-2.28	0.175
129.00	-13.05	-2.29	0.00	-43.19	0.00	43.19	772.61	386.31	575.97	284.45	25.98	-2.30	0.169
130.00	-12.88	-2.27	0.00	-40.91	0.00	40.91	768.31	384.15	567.75	280.39	26.47	-2.33	0.163
131.00	-12.72	-2.24	0.00	-38.64	0.00	38.64	763.96	381.98	559.56	276.35	26.96	-2.35	0.157
132.00	-12.56	-2.22	0.00	-36.40	0.00	36.40	759.57	379.79	551.40	272.31	27.45	-2.38	0.150
133.00	-12.40	-2.19	0.00	-34.18	0.00	34.18	755.14	377.57	543.26	268.29	27.95	-2.40	0.144
134.00	-12.24	-2.17	0.00	-31.99	0.00	31.99	750.67	375.34	535.15	264.29	28.46	-2.43	0.137
135.00	-12.08	-2.14	0.00	-29.83	0.00	29.83	746.16	373.08	527.07	260.30	28.97	-2.45	0.131
136.00	-11.92	-2.11	0.00	-27.69	0.00	27.69	741.60	370.80	519.02	256.32	29.48	-2.47	0.124
137.00	-11.77	-2.09	0.00	-25.57	0.00	25.57	737.01	368.50	511.00	252.36	30.00	-2.49	0.117
138.00	-11.61	-2.06	0.00	-23.48	0.00	23.48	732.37	366.18	503.01	248.42	30.53	-2.51	0.110
139.00	-11.45	-2.04	0.00	-21.42	0.00	21.42	727.69	363.84	495.05	244.49	31.05	-2.52	0.103
140.00	-11.30	-2.01	0.00	-19.39	0.00	19.39	722.97	361.48	487.13	240.57	31.58	-2.54	0.096
141.00	-11.14	-1.98	0.00	-17.38	0.00	17.38	718.21	359.10	479.24	236.68	32.12	-2.56	0.089
142.00	-10.99	-1.96	0.00	-15.39	0.00	15.39	713.40	356.70	471.38	232.80	32.65	-2.57	0.082
143.00	-10.84	-1.93	0.00	-13.44	0.00	13.44	708.00	354.00	463.20	228.76	33.19	-2.58	0.074
144.00	-10.69	-1.90	0.00	-11.51	0.00	11.51	701.03	350.51	454.07	224.25	33.74	-2.60	0.067
145.00	-10.53	-1.87	0.00	-9.61	0.00	9.61	694.06	347.03	445.03	219.78	34.28	-2.61	0.059
146.00	-9.03	-1.47	0.00	-7.74	0.00	7.74	687.08	343.54	436.08	215.36	34.83	-2.61	0.049
147.00	-8.91	-1.45	0.00	-6.27	0.00	6.27	680.11	340.06	427.22	210.99	35.38	-2.62	0.043
148.00	-8.80	-1.43	0.00	-4.83	0.00	4.83	673.14	336.57	418.46	206.66	35.93	-2.63	0.036
149.00	-8.68	-1.41	0.00	-3.40	0.00	3.40	666.17	333.08	409.78	202.37	36.48	-2.63	0.030
150.00	0.00	-1.01	0.00	-1.99	0.00	1.99	659.20	329.60	401.19	198.13	37.03	-2.63	0.010

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:25 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 99
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

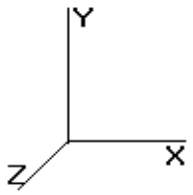
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

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	0.70	6.129	6.742	161.86	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.70	6.129	6.742	161.18	1.000 *	0.000	1.00	3.218	3.22	21.7	0.0	218.5
2.00		1.00	0.70	6.129	6.742	160.50	1.000 *	0.000	1.00	3.204	3.20	21.6	0.0	217.9
3.00		1.00	0.70	6.129	6.742	159.83	1.000 *	0.000	1.00	3.191	3.19	21.5	0.0	217.2
4.00		1.00	0.70	6.129	6.742	159.15	1.000 *	0.000	1.00	3.177	3.18	21.4	0.0	216.6
5.00		1.00	0.70	6.129	6.742	158.47	1.000 *	0.000	1.00	3.164	3.16	21.3	0.0	215.9
6.00		1.00	0.70	6.129	6.742	157.79	1.200 *	0.000	1.00	3.150	3.78	25.5	0.0	215.3
7.00		1.00	0.70	6.129	6.742	157.11	1.200 *	0.000	1.00	3.137	3.76	25.4	0.0	214.6
8.00		1.00	0.70	6.129	6.742	156.43	1.200 *	0.000	1.00	3.123	3.75	25.3	0.0	214.0
9.00		1.00	0.70	6.129	6.742	155.76	1.200 *	0.000	1.00	3.110	3.73	25.2	0.0	213.4
10.00		1.00	0.70	6.129	6.742	155.08	1.200 *	0.000	1.00	3.096	3.72	25.0	0.0	212.7
11.00		1.00	0.70	6.129	6.742	154.40	1.200 *	0.000	1.00	3.083	3.70	24.9	0.0	212.1
12.00		1.00	0.70	6.129	6.742	153.72	1.200 *	0.000	1.00	3.069	3.68	24.8	0.0	211.4
12.50	Reinf. Top Reinf Bottom	1.00	0.70	6.129	6.742	153.38	1.200 *	0.000	0.50	1.529	1.84	12.4	0.0	105.5
13.00		1.00	0.70	6.129	6.742	153.04	1.200 *	0.000	0.50	1.526	1.83	12.3	0.0	105.3
14.00		1.00	0.70	6.129	6.742	152.36	1.200 *	0.000	1.00	3.042	3.65	24.6	0.0	210.1
15.00		1.00	0.70	6.129	6.742	151.68	1.200 *	0.000	1.00	3.028	3.63	24.5	0.0	209.5
16.00		1.00	0.70	6.129	6.742	151.01	1.200 *	0.000	1.00	3.015	3.62	24.4	0.0	208.8
17.00		1.00	0.70	6.129	6.742	150.33	1.200 *	0.000	1.00	3.001	3.60	24.3	0.0	208.2
18.00		1.00	0.70	6.129	6.742	149.65	1.200 *	0.000	1.00	2.988	3.59	24.2	0.0	207.6
19.00		1.00	0.70	6.129	6.742	148.97	1.200 *	0.000	1.00	2.974	3.57	24.1	0.0	206.9
20.00		1.00	0.70	6.129	6.742	148.29	1.200 *	0.000	1.00	2.961	3.55	24.0	0.0	206.3
21.00		1.00	0.70	6.129	6.742	147.61	1.200 *	0.000	1.00	2.947	3.54	23.8	0.0	205.6
22.00		1.00	0.70	6.129	6.742	146.93	1.200 *	0.000	1.00	2.934	3.52	23.7	0.0	205.0
23.00		1.00	0.70	6.129	6.742	146.26	1.200 *	0.000	1.00	2.920	3.50	23.6	0.0	204.3
24.00		1.00	0.70	6.129	6.742	145.58	1.200 *	0.000	1.00	2.907	3.49	23.5	0.0	203.7
25.00		1.00	0.70	6.129	6.742	144.90	1.200 *	0.000	1.00	2.893	3.47	23.4	0.0	203.1
26.00		1.00	0.70	6.129	6.742	144.22	1.200 *	0.000	1.00	2.880	3.46	23.3	0.0	202.4
27.00		1.00	0.70	6.129	6.742	143.54	1.200 *	0.000	1.00	2.866	3.44	23.2	0.0	201.8
28.00		1.00	0.70	6.129	6.742	142.86	1.200 *	0.000	1.00	2.853	3.42	23.1	0.0	201.1
29.00		1.00	0.70	6.129	6.742	142.19	1.200 *	0.000	1.00	2.839	3.41	23.0	0.0	200.5
30.00		1.00	0.70	6.134	6.747	141.57	1.200 *	0.000	1.00	2.826	3.39	22.9	0.0	199.8
31.00		1.00	0.70	6.192	6.811	141.55	1.200 *	0.000	1.00	2.812	3.37	23.0	0.0	199.2
31.50	Bot - Section 2	1.00	0.71	6.220	6.842	141.53	1.200 *	0.000	0.50	1.402	1.68	11.5	0.0	99.4
32.00		1.00	0.71	6.248	6.873	141.51	1.200 *	0.000	0.50	1.424	1.71	11.7	0.0	155.1
33.00		1.00	0.72	6.303	6.933	141.44	1.200 *	0.000	1.00	2.839	3.41	23.6	0.0	309.5
34.00		1.00	0.72	6.357	6.993	141.36	1.200 *	0.000	1.00	2.826	3.39	23.7	0.0	308.3
35.00		1.00	0.73	6.410	7.051	141.25	1.200 *	0.000	1.00	2.812	3.37	23.8	0.0	307.2
35.67	Top - Section 1	1.00	0.73	6.445	7.089	141.17	1.200 *	0.000	0.67	1.868	2.24	15.9	0.0	204.2
36.00		1.00	0.73	6.462	7.108	143.90	1.200 *	0.000	0.33	0.930	1.12	7.9	0.0	58.8
37.00		1.00	0.74	6.513	7.164	143.77	1.200 *	0.000	1.00	2.785	3.34	23.9	0.0	176.3
38.00		1.00	0.75	6.562	7.219	143.61	1.200 *	0.000	1.00	2.772	3.33	24.0	0.0	175.7
39.00		1.00	0.75	6.611	7.272	143.44	1.200 *	0.000	1.00	2.758	3.31	24.1	0.0	175.2
40.00		1.00	0.76	6.659	7.325	143.25	1.200 *	0.000	1.00	2.744	3.29	24.1	0.0	174.7
41.00		1.00	0.76	6.706	7.377	143.05	1.200 *	0.000	1.00	2.731	3.28	24.2	0.0	174.1
42.00		1.00	0.77	6.753	7.428	142.83	1.200 *	0.000	1.00	2.717	3.26	24.2	0.0	173.6
43.00		1.00	0.77	6.798	7.478	142.60	1.200 *	0.000	1.00	2.704	3.24	24.3	0.0	173.0
44.00		1.00	0.78	6.843	7.527	142.35	1.200 *	0.000	1.00	2.690	3.23	24.3	0.0	172.5
45.00		1.00	0.78	6.887	7.576	142.09	1.200 *	0.000	1.00	2.677	3.21	24.3	0.0	172.0
46.00		1.00	0.79	6.931	7.624	141.81	1.200 *	0.000	1.00	2.663	3.20	24.4	0.0	171.4
47.00		1.00	0.79	6.973	7.671	141.53	1.200 *	0.000	1.00	2.650	3.18	24.4	0.0	170.9

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**		**11/12/2014 9:57:25 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**		**Page: 100**
Height :	**150.0 (ft)**	**Exposure Category : B**		
Base Dia :	**37.37 (in)**	**Topographic Category : 1**		
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**		
Shape :	**12 Sides**			
Taper :	**0.156666 (in/ft)**			



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

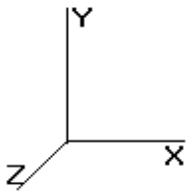
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

48.00		1.00	0.80	7.015	7.717	141.23	1.200	* 0.000	1.00	2.636	3.16	24.4	0.0	170.4
49.00		1.00	0.80	7.057	7.763	140.92	1.200	* 0.000	1.00	2.623	3.15	24.4	0.0	169.8
50.00		1.00	0.81	7.098	7.807	140.59	1.200	* 0.000	1.00	2.609	3.13	24.4	0.0	169.3
51.00		1.00	0.81	7.138	7.852	140.26	1.200	* 0.000	1.00	2.596	3.11	24.5	0.0	168.8
52.00		1.00	0.82	7.178	7.895	139.91	1.200	* 0.000	1.00	2.582	3.10	24.5	0.0	168.2
53.00		1.00	0.82	7.217	7.939	139.56	1.200	* 0.000	1.00	2.569	3.08	24.5	0.0	167.7
54.00		1.00	0.82	7.255	7.981	139.19	1.200	* 0.000	1.00	2.555	3.07	24.5	0.0	167.1
55.00		1.00	0.83	7.294	8.023	138.82	1.200	* 0.000	1.00	2.542	3.05	24.5	0.0	166.6
56.00		1.00	0.83	7.331	8.064	138.44	1.200	* 0.000	1.00	2.528	3.03	24.5	0.0	166.1
57.00		1.00	0.84	7.368	8.105	138.04	1.200	* 0.000	1.00	2.515	3.02	24.5	0.0	165.5
58.00		1.00	0.84	7.405	8.146	137.64	1.200	* 0.000	1.00	2.501	3.00	24.4	0.0	165.0
59.00		1.00	0.85	7.441	8.186	137.23	1.200	* 0.000	1.00	2.488	2.99	24.4	0.0	164.5
60.00		1.00	0.85	7.477	8.225	136.81	1.200	* 0.000	1.00	2.474	2.97	24.4	0.0	163.9
61.00		1.00	0.85	7.513	8.264	136.38	1.200	* 0.000	1.00	2.461	2.95	24.4	0.0	163.4
62.00		1.00	0.86	7.548	8.302	135.95	1.200	* 0.000	1.00	2.447	2.94	24.4	0.0	162.9
63.00		1.00	0.86	7.582	8.340	135.50	1.200	* 0.000	1.00	2.434	2.92	24.4	0.0	162.3
64.00		1.00	0.87	7.616	8.378	135.05	1.200	* 0.000	1.00	2.420	2.90	24.3	0.0	161.8
65.00		1.00	0.87	7.650	8.415	134.59	1.200	* 0.000	1.00	2.407	2.89	24.3	0.0	161.2
66.00		1.00	0.87	7.684	8.452	134.13	1.200	* 0.000	1.00	2.393	2.87	24.3	0.0	160.7
67.00		1.00	0.88	7.717	8.488	133.65	1.200	* 0.000	1.00	2.380	2.86	24.2	0.0	160.2
68.00		1.00	0.88	7.749	8.524	133.17	1.200	* 0.000	1.00	2.366	2.84	24.2	0.0	159.6
69.00		1.00	0.88	7.782	8.560	132.69	1.200	* 0.000	1.00	2.353	2.82	24.2	0.0	159.1
70.00		1.00	0.89	7.814	8.595	132.19	1.200	* 0.000	1.00	2.339	2.81	24.1	0.0	158.6
70.00	Bot - Section 3	1.00	0.89	7.814	8.595	132.19	1.200	* 0.000	0.00	0.001	0.00	0.0	0.0	0.1
71.00		1.00	0.89	7.846	8.630	131.69	1.200	* 0.000	1.00	2.368	2.84	24.5	0.0	232.5
72.00		1.00	0.90	7.877	8.665	131.19	1.200	* 0.000	1.00	2.355	2.83	24.5	0.0	231.6
73.00		1.00	0.90	7.908	8.699	130.68	1.200	* 0.000	1.00	2.342	2.81	24.4	0.0	230.6
73.50	Top - Section 2	1.00	0.90	7.924	8.716	130.42	1.200	* 0.000	0.50	1.167	1.40	12.2	0.0	115.0
74.00		1.00	0.90	7.939	8.733	132.62	1.200	* 0.000	0.50	1.162	1.39	12.2	0.0	69.9
75.00		1.00	0.91	7.969	8.766	132.10	1.200	* 0.000	1.00	2.315	2.78	24.3	0.0	139.6
76.00		1.00	0.91	8.000	8.800	131.58	1.200	* 0.000	1.00	2.301	2.76	24.3	0.0	139.2
77.00		1.00	0.91	8.030	8.833	131.05	1.200	* 0.000	1.00	2.288	2.75	24.2	0.0	138.7
78.00		1.00	0.92	8.059	8.865	130.51	1.200	* 0.000	1.00	2.274	2.73	24.2	0.0	138.3
79.00		1.00	0.92	8.089	8.897	129.97	1.200	* 0.000	1.00	2.261	2.71	24.1	0.0	137.9
80.00		1.00	0.92	8.118	8.930	129.42	1.200	* 0.000	1.00	2.247	2.70	24.1	0.0	137.5
81.00		1.00	0.93	8.147	8.961	128.87	1.200	* 0.000	1.00	2.233	2.68	24.0	0.0	137.0
82.00		1.00	0.93	8.175	8.993	128.31	1.200	* 0.000	1.00	2.220	2.66	24.0	0.0	136.6
83.00		1.00	0.93	8.204	9.024	127.75	1.200	* 0.000	1.00	2.206	2.65	23.9	0.0	136.2
84.00		1.00	0.94	8.232	9.055	127.18	1.200	* 0.000	1.00	2.193	2.63	23.8	0.0	135.7
85.00		1.00	0.94	8.260	9.086	126.61	1.200	* 0.000	1.00	2.179	2.62	23.8	0.0	135.3
86.00		1.00	0.94	8.287	9.116	126.03	1.200	* 0.000	1.00	2.166	2.60	23.7	0.0	134.9
86.50	Reinf. Top Reinf Bottom	1.00	0.94	8.301	9.131	125.74	1.200	* 0.000	0.50	1.078	1.29	11.8	0.0	67.3
87.00		1.00	0.95	8.315	9.146	125.45	1.200	* 0.000	0.50	1.074	1.29	11.8	0.0	67.2
88.00		1.00	0.95	8.342	9.176	124.87	1.200	* 0.000	1.00	2.139	2.57	23.6	0.0	134.0
89.00		1.00	0.95	8.369	9.206	124.27	1.200	* 0.000	1.00	2.125	2.55	23.5	0.0	133.6
90.00		1.00	0.95	8.396	9.235	123.68	1.200	* 0.000	1.00	2.112	2.53	23.4	0.0	133.2
91.00		1.00	0.96	8.422	9.264	123.08	1.200	* 0.000	1.00	2.098	2.52	23.3	0.0	132.7
92.00		1.00	0.96	8.448	9.293	122.47	1.200	* 0.000	1.00	2.085	2.50	23.2	0.0	132.3
93.00		1.00	0.96	8.475	9.322	121.87	1.200	* 0.000	1.00	2.071	2.49	23.2	0.0	131.9
94.00		1.00	0.97	8.501	9.351	121.25	1.200	* 0.000	1.00	2.058	2.47	23.1	0.0	131.5
95.00		1.00	0.97	8.526	9.379	120.64	1.200	* 0.000	1.00	2.044	2.45	23.0	0.0	131.0
95.33	Reinf. Top	1.00	0.97	8.535	9.388	120.43	1.200	* 0.000	0.33	0.678	0.81	7.6	0.0	43.6
96.00		1.00	0.97	8.552	9.407	120.02	1.200	* 0.000	0.67	1.353	1.62	15.3	0.0	42.5
97.00		1.00	0.98	8.577	9.435	119.39	1.200	* 0.000	1.00	2.017	2.42	22.8	0.0	63.4
98.00		1.00	0.98	8.602	9.463	118.76	1.200	* 0.000	1.00	2.004	2.40	22.8	0.0	62.9
99.00		1.00	0.98	8.627	9.490	118.13	1.200	* 0.000	1.00	1.990	2.39	22.7	0.0	62.5
100.0		1.00	0.98	8.652	9.517	117.49	1.200	* 0.000	1.00	1.977	2.37	22.6	0.0	62.1

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**		**11/12/2014 9:57:26 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**		**Page: 101**
Height :	**150.0 (ft)**	**Exposure Category : B**		
Base Dia :	**37.37 (in)**	**Topographic Category : 1**		
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**		
Shape :	**12 Sides**			
Taper :	**0.156666 (in/ft)**			



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

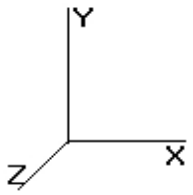
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

101.0		1.00	0.99	8.677	9.544	116.85	1.200	*	0.000	1.00	1.963	2.36	22.5	0.0	61.6
102.0		1.00	0.99	8.701	9.571	116.21	1.000	*	0.000	1.00	1.950	1.95	18.7	0.0	61.2
103.0		1.00	0.99	8.726	9.598	115.56	1.000	*	0.000	1.00	1.936	1.94	18.6	0.0	60.8
104.0		1.00	0.99	8.750	9.625	114.91	1.000	*	0.000	1.00	1.923	1.92	18.5	0.0	60.4
105.0		1.00	1.00	8.774	9.651	114.26	1.000	*	0.000	1.00	1.909	1.91	18.4	0.0	59.9
106.0		1.00	1.00	8.797	9.677	113.60	1.000	*	0.000	1.00	1.896	1.90	18.3	0.0	59.5
107.0		1.00	1.00	8.821	9.703	112.94	1.000	*	0.000	1.00	1.882	1.88	18.3	0.0	59.1
108.0	Appertunance(s)	1.00	1.01	8.845	9.729	112.27	1.000	*	0.000	1.00	1.869	1.87	18.2	0.0	58.6
109.0		1.00	1.01	8.868	9.755	111.60	1.000	*	0.000	1.00	1.855	1.86	18.1	0.0	58.2
110.0		1.00	1.01	8.891	9.780	110.93	1.000	*	0.000	1.00	1.842	1.84	18.0	0.0	57.8
110.0	Top - Section 3	1.00	1.01	8.891	9.780	110.93	1.000	*	0.000	0.00	0.001	0.00	0.0	0.0	0.0
111.0		1.00	1.01	8.914	9.805	110.26	1.000	*	0.000	1.00	1.827	1.83	17.9	0.0	43.1
112.0		1.00	1.02	8.937	9.831	109.58	1.000	*	0.000	1.00	1.814	1.81	17.8	0.0	42.8
113.0		1.00	1.02	8.960	9.856	108.90	1.000	*	0.000	1.00	1.801	1.80	17.7	0.0	42.5
114.0		1.00	1.02	8.982	9.880	108.21	1.000	*	0.000	1.00	1.787	1.79	17.7	0.0	42.2
115.0		1.00	1.02	9.005	9.905	107.53	1.000	*	0.000	1.00	1.774	1.77	17.6	0.0	41.9
116.0		1.00	1.03	9.027	9.930	106.83	1.000	*	0.000	1.00	1.760	1.76	17.5	0.0	41.5
117.0		1.00	1.03	9.049	9.954	106.14	1.000	*	0.000	1.00	1.747	1.75	17.4	0.0	41.2
118.0		1.00	1.03	9.071	9.978	105.45	1.000	*	0.000	1.00	1.733	1.73	17.3	0.0	40.9
119.0		1.00	1.03	9.093	10.00	104.75	1.000	*	0.000	1.00	1.720	1.72	17.2	0.0	40.6
120.0		1.00	1.04	9.115	10.02	104.04	1.000	*	0.000	1.00	1.706	1.71	17.1	0.0	40.2
121.0		1.00	1.04	9.136	10.05	103.34	1.000	*	0.000	1.00	1.693	1.69	17.0	0.0	39.9
122.0		1.00	1.04	9.158	10.07	102.63	1.000	*	0.000	1.00	1.679	1.68	16.9	0.0	39.6
123.0		1.00	1.04	9.179	10.09	101.92	1.000	*	0.000	1.00	1.666	1.67	16.8	0.0	39.3
124.0		1.00	1.05	9.201	10.12	101.21	1.000	*	0.000	1.00	1.652	1.65	16.7	0.0	39.0
125.0		1.00	1.05	9.222	10.14	100.49	1.000	*	0.000	1.00	1.639	1.64	16.6	0.0	38.6
126.0		1.00	1.05	9.243	10.16	99.777	1.200	*	0.000	1.00	1.625	1.95	19.8	0.0	38.3
127.0		1.00	1.05	9.264	10.19	99.055	1.200	*	0.000	1.00	1.612	1.93	19.7	0.0	38.0
128.0		1.00	1.06	9.284	10.21	98.331	1.200	*	0.000	1.00	1.598	1.92	19.6	0.0	37.7
129.0		1.00	1.06	9.305	10.23	97.604	1.200	*	0.000	1.00	1.585	1.90	19.5	0.0	37.4
130.0		1.00	1.06	9.326	10.25	96.875	1.200	*	0.000	1.00	1.571	1.89	19.3	0.0	37.0
131.0		1.00	1.06	9.346	10.28	96.143	1.200	*	0.000	1.00	1.558	1.87	19.2	0.0	36.7
132.0		1.00	1.07	9.366	10.30	95.409	1.200	*	0.000	1.00	1.544	1.85	19.1	0.0	36.4
133.0		1.00	1.07	9.387	10.32	94.672	1.200	*	0.000	1.00	1.531	1.84	19.0	0.0	36.1
134.0		1.00	1.07	9.407	10.34	93.933	1.200	*	0.000	1.00	1.517	1.82	18.8	0.0	35.7
135.0		1.00	1.07	9.427	10.36	93.191	1.200	*	0.000	1.00	1.504	1.80	18.7	0.0	35.4
136.0		1.00	1.07	9.447	10.39	92.447	1.200	*	0.000	1.00	1.490	1.79	18.6	0.0	35.1
137.0		1.00	1.08	9.466	10.41	91.701	1.200	*	0.000	1.00	1.477	1.77	18.5	0.0	34.8
138.0		1.00	1.08	9.486	10.43	90.952	1.200	*	0.000	1.00	1.463	1.76	18.3	0.0	34.5
139.0		1.00	1.08	9.506	10.45	90.201	1.200	*	0.000	1.00	1.450	1.74	18.2	0.0	34.1
140.0		1.00	1.08	9.525	10.47	89.448	1.200	*	0.000	1.00	1.436	1.72	18.1	0.0	33.8
141.0		1.00	1.09	9.545	10.49	88.692	1.200	*	0.000	1.00	1.423	1.71	17.9	0.0	33.5
142.0		1.00	1.09	9.564	10.52	87.934	1.200	*	0.000	1.00	1.409	1.69	17.8	0.0	33.2
143.0		1.00	1.09	9.583	10.54	87.174	1.200	*	0.000	1.00	1.395	1.67	17.7	0.0	32.8
144.0		1.00	1.09	9.602	10.56	86.411	1.200	*	0.000	1.00	1.382	1.66	17.5	0.0	32.5
145.0		1.00	1.09	9.621	10.58	85.646	1.200	*	0.000	1.00	1.368	1.64	17.4	0.0	32.2
146.0	Appertunance(s)	1.00	1.10	9.640	10.60	84.880	1.200	*	0.000	1.00	1.355	1.63	17.2	0.0	31.9
147.0		1.00	1.10	9.659	10.62	84.111	1.000		0.000	1.00	1.341	1.34	14.3	0.0	31.6
148.0		1.00	1.10	9.678	10.64	83.339	1.000		0.000	1.00	1.328	1.33	14.1	0.0	31.2
149.0		1.00	1.10	9.696	10.66	82.566	1.000		0.000	1.00	1.314	1.31	14.0	0.0	30.9
150.0	Appertunance(s)	1.00	1.11	9.715	10.68	81.791	1.000		0.000	1.00	1.301	1.30	13.9	0.0	30.6
* = Cf Adjusted By Linear Load Ra Effect							Totals:			150.00			3,282.8	0.0	19,739.0

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	**11/12/2014 9:57:26 AM**
Location :	**North Haven CT 1, CT**	**Struct Class : II**	**Page: 102**
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **33 Iterations**

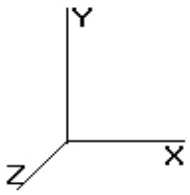
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
108.0	RFS FD9R6004/2C-3L	6	8.845	9.729	0.50	0.80	0.89	0.000	0.000	8.64	0.00	0.00	15.60
108.0	Commscope HBX-	3	8.845	9.729	0.68	0.80	5.42	0.000	0.000	52.71	0.00	0.00	31.20
108.0	Commscope HBX-	3	8.845	9.729	0.69	0.80	8.68	0.000	0.000	84.42	0.00	0.00	41.10
108.0	Antel BXA-70063/6CF_	3	8.845	9.729	0.65	0.80	11.81	0.000	0.000	114.89	0.00	0.00	51.00
108.0	Andrew LNX-6514DS-	3	8.845	9.729	0.69	0.80	13.53	0.000	0.000	131.63	0.00	0.00	116.40
108.0	RFS FD9R6004/1C-3L	6	8.845	9.729	0.50	0.80	0.89	0.000	0.000	8.64	0.00	0.00	18.60
108.0	Round Low Profile Pl	1	8.845	9.729	1.00	1.00	21.70	0.000	0.000	211.12	0.00	0.00	1,500.00
146.0	12" x 12" Junction B	3	9.640	10.604	0.50	0.80	1.44	0.000	0.000	15.27	0.00	0.00	30.00
146.0	NextNet BTS-2500	3	9.640	10.604	0.50	0.80	2.18	0.000	0.000	23.16	0.00	0.00	105.00
146.0	Argus LLPX310R	3	9.640	10.604	0.63	0.80	6.49	0.000	0.000	68.78	0.00	0.00	85.80
146.0	Collar	1	9.640	10.604	1.00	1.00	8.50	0.000	0.000	90.14	0.00	0.00	40.00
146.0	DragonWave Horizon	3	9.640	10.604	0.33	0.80	0.34	0.000	0.000	3.61	0.00	0.00	31.80
146.0	DragonWave A-ANT-	1	9.640	10.604	0.90	0.80	1.16	0.000	0.000	12.29	0.00	0.00	15.00
146.0	DragonWave A-ANT-	1	9.640	10.604	1.00	0.80	6.94	0.000	0.000	73.55	0.00	0.00	47.60
146.0	DragonWave A-ANT-	1	9.640	10.604	0.90	0.80	3.38	0.000	0.000	35.81	0.00	0.00	27.00
150.0	Round Low Profile Pl	1	9.715	10.686	1.00	1.00	21.70	0.000	0.000	231.89	0.00	0.00	1,500.00
150.0	Allgon 7770.00	3	9.770	10.747	0.65	0.80	8.60	0.000	3.000	92.38	0.00	277.13	105.00
150.0	Powerwave LGP21401	6	9.770	10.747	0.50	0.80	2.64	0.000	3.000	28.37	0.00	85.12	84.60
150.0	Powerwave LGP21901	6	9.770	10.747	0.50	0.80	0.55	0.000	3.000	5.93	0.00	17.80	33.00
150.0	Raycap DC6-48-60-18-	1	9.770	10.747	1.00	0.80	0.89	0.000	3.000	9.54	0.00	28.63	20.00
150.0	Tophat	1	9.743	10.717	1.00	1.00	3.50	0.000	1.500	37.51	0.00	56.26	200.00
150.0	Kathrein 782 10250	6	9.770	10.747	0.50	0.80	1.25	0.000	3.000	13.41	0.00	40.24	38.40
150.0	Raycap DC6-48-60-18-	2	9.770	10.747	1.00	0.80	2.05	0.000	3.000	22.01	0.00	66.03	63.60
150.0	Ericsson RRUS A2 B2	3	9.770	10.747	0.50	0.80	2.47	0.000	3.000	26.57	0.00	79.70	66.00
150.0	Ericsson RRUS 11 (Ba	6	9.770	10.747	0.50	0.80	6.70	0.000	3.000	71.96	0.00	215.89	304.20
150.0	Ericsson RRUS 12	3	9.770	10.747	0.50	0.80	3.78	0.000	3.000	40.62	0.00	121.87	150.00
150.0	Ericsson RRUS E2 B29	3	9.770	10.747	0.50	0.80	3.78	0.000	3.000	40.62	0.00	121.87	180.00
150.0	Ericsson RRUS-32	3	9.770	10.747	0.50	0.80	3.97	0.000	3.000	42.69	0.00	128.06	231.00
150.0	CCI OPA-65R-LCUU-H6	6	9.770	10.747	0.66	0.80	30.60	0.000	3.000	328.89	0.00	986.67	438.00
										1,927.06			5,569.90

Pole :	302482	Code: ANSI/TIA-222 Rev G	11/12/2014 9:57:26 AM
Location :	North Haven CT 1, CT	Struct Class : II	Page: 103
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



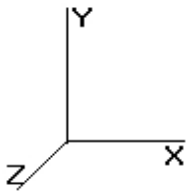
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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)
1.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	6.129	0.194	1.283	0.00	0.00
2.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	6.129	0.195	1.285	0.00	0.00
3.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	6.129	0.196	1.288	0.00	0.00
4.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	6.129	0.197	1.290	0.00	0.00
5.00	(4) # 20 Dywidag	Yes	1.00	0.000	7.50	0.63	0.00	6.129	0.198	1.293	0.00	0.00
6.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.302	0.000	0.00	0.28
6.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.302	0.000	0.00	1.18
6.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.302	0.000	1.04	0.63
6.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.302	0.000	0.00	4.20
6.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.302	0.000	0.00	0.90
6.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.302	0.000	1.60	7.58
6.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.302	0.000	0.00	0.27
6.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.302	0.000	5.06	0.00
7.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.304	0.000	0.00	0.28
7.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.304	0.000	0.00	1.18
7.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.304	0.000	1.04	0.63
7.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.304	0.000	0.00	4.20
7.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.304	0.000	0.00	0.90
7.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.304	0.000	1.60	7.58
7.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.304	0.000	0.00	0.27
7.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.304	0.000	5.06	0.00
8.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.305	0.000	0.00	0.28
8.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.305	0.000	0.00	1.18
8.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.305	0.000	1.04	0.63
8.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.305	0.000	0.00	4.20
8.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.305	0.000	0.00	0.90
8.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.305	0.000	1.60	7.58
8.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.305	0.000	0.00	0.27
8.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.305	0.000	5.06	0.00
9.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.306	0.000	0.00	0.28
9.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.306	0.000	0.00	1.18
9.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.306	0.000	1.04	0.63
9.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.306	0.000	0.00	4.20
9.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.306	0.000	0.00	0.90
9.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.306	0.000	1.60	7.58
9.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.306	0.000	0.00	0.27
9.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.306	0.000	5.06	0.00
10.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.308	0.000	0.00	0.28
10.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.308	0.000	0.00	1.18
10.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.308	0.000	1.04	0.63
10.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.308	0.000	0.00	4.20
10.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.308	0.000	0.00	0.90
10.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.308	0.000	1.60	7.58
10.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.308	0.000	0.00	0.27
10.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.308	0.000	5.06	0.00
11.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.309	0.000	0.00	0.28
11.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.309	0.000	0.00	1.18
11.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.309	0.000	1.04	0.63
11.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.309	0.000	0.00	4.20
11.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.309	0.000	0.00	0.90
11.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.309	0.000	1.60	7.58

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:26 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**104**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **33 Iterations**

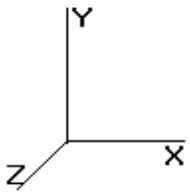
Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**

Dead Load Factor : 1.00

Wind Load Factor : 1.00

11.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.309	0.000	0.00	0.27
11.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.309	0.000	5.06	0.00
12.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.310	0.000	0.00	0.28
12.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.310	0.000	0.00	1.18
12.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.310	0.000	1.04	0.63
12.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.310	0.000	0.00	4.20
12.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.310	0.000	0.00	0.90
12.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.310	0.000	1.60	7.58
12.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.310	0.000	0.00	0.27
12.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.310	0.000	5.06	0.00
12.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.311	0.000	0.00	0.14
12.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.311	0.000	0.00	0.59
12.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	6.129	0.311	0.000	0.52	0.31
12.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.311	0.000	0.00	2.10
12.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.311	0.000	0.00	0.45
12.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	6.129	0.311	0.000	0.80	3.79
12.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.311	0.000	0.00	0.14
12.50	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.31	0.38	6.129	0.311	0.000	2.53	0.00
13.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.312	0.000	0.00	0.14
13.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.312	0.000	0.00	0.59
13.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	6.129	0.312	0.000	0.52	0.31
13.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.312	0.000	0.00	2.10
13.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.312	0.000	0.00	0.45
13.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	6.129	0.312	0.000	0.80	3.79
13.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.129	0.312	0.000	0.00	0.14
13.00	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.31	0.38	6.129	0.312	0.000	2.53	0.00
14.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.313	0.000	0.00	0.28
14.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.313	0.000	0.00	1.18
14.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.313	0.000	1.04	0.63
14.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.313	0.000	0.00	4.20
14.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.313	0.000	0.00	0.90
14.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.313	0.000	1.60	7.58
14.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.313	0.000	0.00	0.27
14.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.313	0.000	5.06	0.00
15.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.315	0.000	0.00	0.28
15.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.315	0.000	0.00	1.18
15.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.315	0.000	1.04	0.63
15.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.315	0.000	0.00	4.20
15.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.315	0.000	0.00	0.90
15.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.315	0.000	1.60	7.58
15.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.315	0.000	0.00	0.27
15.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.315	0.000	5.06	0.00
16.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.316	0.000	0.00	0.28
16.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.316	0.000	0.00	1.18
16.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.316	0.000	1.04	0.63
16.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.316	0.000	0.00	4.20
16.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.316	0.000	0.00	0.90
16.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.316	0.000	1.60	7.58
16.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.316	0.000	0.00	0.27
16.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.316	0.000	5.06	0.00
17.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.317	0.000	0.00	0.28
17.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.317	0.000	0.00	1.18
17.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.317	0.000	1.04	0.63
17.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.317	0.000	0.00	4.20
17.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.317	0.000	0.00	0.90
17.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.317	0.000	1.60	7.58
17.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.317	0.000	0.00	0.27

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:26 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**105**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **33 Iterations**

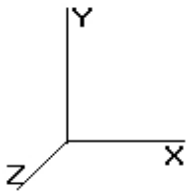
Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**

Dead Load Factor : 1.00

Wind Load Factor : 1.00

17.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.317	0.000	5.06	0.00
18.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.319	0.000	0.00	0.28
18.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.319	0.000	0.00	1.18
18.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.319	0.000	1.04	0.63
18.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.319	0.000	0.00	4.20
18.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.319	0.000	0.00	0.90
18.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.319	0.000	1.60	7.58
18.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.319	0.000	0.00	0.27
18.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.319	0.000	5.06	0.00
19.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.320	0.000	0.00	0.28
19.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.320	0.000	0.00	1.18
19.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.320	0.000	1.04	0.63
19.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.320	0.000	0.00	4.20
19.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.320	0.000	0.00	0.90
19.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.320	0.000	1.60	7.58
19.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.320	0.000	0.00	0.27
19.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.320	0.000	5.06	0.00
20.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.322	0.000	0.00	0.28
20.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.322	0.000	0.00	1.18
20.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.322	0.000	1.04	0.63
20.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.322	0.000	0.00	4.20
20.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.322	0.000	0.00	0.90
20.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.322	0.000	1.60	7.58
20.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.322	0.000	0.00	0.27
20.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.322	0.000	5.06	0.00
21.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.323	0.000	0.00	0.28
21.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.323	0.000	0.00	1.18
21.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.323	0.000	1.04	0.63
21.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.323	0.000	0.00	4.20
21.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.323	0.000	0.00	0.90
21.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.323	0.000	1.60	7.58
21.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.323	0.000	0.00	0.27
21.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.323	0.000	5.06	0.00
22.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	0.28
22.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	1.18
22.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.325	0.000	1.04	0.63
22.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	4.20
22.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	0.90
22.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.325	0.000	1.60	7.58
22.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.325	0.000	0.00	0.27
22.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.325	0.000	5.06	0.00
23.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.326	0.000	0.00	0.28
23.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.326	0.000	0.00	1.18
23.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.326	0.000	1.04	0.63
23.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.326	0.000	0.00	4.20
23.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.326	0.000	0.00	0.90
23.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.326	0.000	1.60	7.58
23.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.326	0.000	0.00	0.27
23.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.326	0.000	5.06	0.00
24.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.328	0.000	0.00	0.28
24.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.328	0.000	0.00	1.18
24.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.328	0.000	1.04	0.63
24.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.328	0.000	0.00	4.20
24.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.328	0.000	0.00	0.90
24.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.328	0.000	1.60	7.58
24.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.328	0.000	0.00	0.27
24.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.328	0.000	5.06	0.00

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:26 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**106**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **33 Iterations**

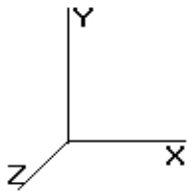
Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**

Dead Load Factor : 1.00

Wind Load Factor : 1.00

25.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.329	0.000	0.00	0.28
25.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.329	0.000	0.00	1.18
25.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.329	0.000	1.04	0.63
25.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.329	0.000	0.00	4.20
25.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.329	0.000	0.00	0.90
25.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.329	0.000	1.60	7.58
25.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.329	0.000	0.00	0.27
25.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.329	0.000	5.06	0.00
26.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.331	0.000	0.00	0.28
26.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.331	0.000	0.00	1.18
26.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.331	0.000	1.04	0.63
26.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.331	0.000	0.00	4.20
26.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.331	0.000	0.00	0.90
26.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.331	0.000	1.60	7.58
26.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.331	0.000	0.00	0.27
26.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.331	0.000	5.06	0.00
27.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.332	0.000	0.00	0.28
27.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.332	0.000	0.00	1.18
27.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.332	0.000	1.04	0.63
27.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.332	0.000	0.00	4.20
27.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.332	0.000	0.00	0.90
27.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.332	0.000	1.60	7.58
27.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.332	0.000	0.00	0.27
27.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.332	0.000	5.06	0.00
28.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.334	0.000	0.00	0.28
28.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.334	0.000	0.00	1.18
28.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.334	0.000	1.04	0.63
28.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.334	0.000	0.00	4.20
28.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.334	0.000	0.00	0.90
28.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.334	0.000	1.60	7.58
28.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.334	0.000	0.00	0.27
28.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.334	0.000	5.06	0.00
29.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.335	0.000	0.00	0.28
29.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.335	0.000	0.00	1.18
29.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.129	0.335	0.000	1.04	0.63
29.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.335	0.000	0.00	4.20
29.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.335	0.000	0.00	0.90
29.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.129	0.335	0.000	1.60	7.58
29.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.129	0.335	0.000	0.00	0.27
29.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.129	0.335	0.000	5.06	0.00
30.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.134	0.337	0.000	0.00	0.28
30.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.134	0.337	0.000	0.00	1.18
30.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.134	0.337	0.000	1.05	0.63
30.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.134	0.337	0.000	0.00	4.20
30.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.134	0.337	0.000	0.00	0.90
30.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.134	0.337	0.000	1.61	7.58
30.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.134	0.337	0.000	0.00	0.27
30.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.134	0.337	0.000	5.06	0.00
31.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.192	0.339	0.000	0.00	0.28
31.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.192	0.339	0.000	0.00	1.18
31.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.192	0.339	0.000	1.06	0.63
31.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.192	0.339	0.000	0.00	4.20
31.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.192	0.339	0.000	0.00	0.90
31.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.192	0.339	0.000	1.62	7.58
31.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.192	0.339	0.000	0.00	0.27
31.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.192	0.339	0.000	5.11	0.00
31.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	6.220	0.340	0.000	0.00	0.14

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:26 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page: 107**	
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											

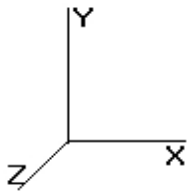


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

31.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	6.220	0.340	0.000	0.00	0.59
31.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	6.220	0.340	0.000	0.53	0.32
31.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	6.220	0.340	0.000	0.00	2.10
31.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.220	0.340	0.000	0.00	0.45
31.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	6.220	0.340	0.000	0.81	3.79
31.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.220	0.340	0.000	0.00	0.14
31.50	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.31	0.38	6.220	0.340	0.000	2.57	0.00
32.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.341	0.000	0.00	0.14
32.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.341	0.000	0.00	0.59
32.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	6.248	0.341	0.000	0.53	0.31
32.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.341	0.000	0.00	2.10
32.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.341	0.000	0.00	0.45
32.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	6.248	0.341	0.000	0.82	3.79
32.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	6.248	0.341	0.000	0.00	0.13
32.00	(4) # 20 Dywidag	Yes	0.50	1.200	7.50	0.31	0.37	6.248	0.341	0.000	2.58	0.00
33.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.303	0.342	0.000	0.00	0.28
33.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.303	0.342	0.000	0.00	1.18
33.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.303	0.342	0.000	1.07	0.63
33.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.303	0.342	0.000	0.00	4.20
33.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.303	0.342	0.000	0.00	0.90
33.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.303	0.342	0.000	1.65	7.58
33.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.303	0.342	0.000	0.00	0.27
33.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.303	0.342	0.000	5.20	0.00
34.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.357	0.344	0.000	0.00	0.28
34.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.357	0.344	0.000	0.00	1.18
34.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.357	0.344	0.000	1.08	0.63
34.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.357	0.344	0.000	0.00	4.20
34.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.357	0.344	0.000	0.00	0.90
34.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.357	0.344	0.000	1.66	7.58
34.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.357	0.344	0.000	0.00	0.27
34.00	(4) # 20 Dywidag	Yes	1.00	1.200	7.50	0.63	0.75	6.357	0.344	0.000	5.24	0.00
35.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.410	0.345	0.000	0.00	0.28
35.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.410	0.345	0.000	0.00	1.18
35.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.410	0.345	0.000	1.09	0.63
35.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.410	0.345	0.000	0.00	4.20
35.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.410	0.345	0.000	0.00	0.90
35.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.410	0.345	0.000	1.68	7.58
35.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.410	0.345	0.000	0.00	0.27
35.00	(4) # 20 Dywidag	Yes	1.00	1.197	7.50	0.63	0.75	6.410	0.345	0.000	5.27	0.00
35.67	(2) 0.51" Hybrid	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.347	0.000	0.00	0.19
35.67	(2) 0.78" 8 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.347	0.000	0.00	0.79
35.67	(1) 1 1/4" Coax	Yes	0.67	1.200	1.55	0.09	0.10	6.445	0.347	0.000	0.73	0.42
35.67	(4) 1.24" 4 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.347	0.000	0.00	2.80
35.67	(6) 1/2" Coax	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.347	0.000	0.00	0.60
35.67	(1) 3" Conduit	Yes	0.67	1.200	2.38	0.13	0.16	6.445	0.347	0.000	1.13	5.06
35.67	(6) 5/16" Coax	Yes	0.67	0.000	0.00	0.00	0.00	6.445	0.347	0.000	0.00	0.18
35.67	(4) # 20 Dywidag	Yes	0.67	1.194	7.50	0.42	0.50	6.445	0.347	0.000	3.53	0.00
36.00	(2) 0.51" Hybrid	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.341	0.000	0.00	0.09
36.00	(2) 0.78" 8 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.341	0.000	0.00	0.39
36.00	(1) 1 1/4" Coax	Yes	0.33	1.200	1.55	0.04	0.05	6.462	0.341	0.000	0.37	0.21
36.00	(4) 1.24" 4 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.341	0.000	0.00	1.40
36.00	(6) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.341	0.000	0.00	0.30
36.00	(1) 3" Conduit	Yes	0.33	1.200	2.38	0.07	0.08	6.462	0.341	0.000	0.56	2.52
36.00	(6) 5/16" Coax	Yes	0.33	0.000	0.00	0.00	0.00	6.462	0.341	0.000	0.00	0.09
36.00	(4) # 20 Dywidag	Yes	0.33	1.192	7.50	0.21	0.25	6.462	0.341	0.000	1.76	0.00
37.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.513	0.342	0.000	0.00	0.28
37.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.513	0.342	0.000	0.00	1.18

Pole :	**302482**			**Code:**	**ANSI/TIA-222 Rev G**						**11/12/2014 9:57:26 AM**	
Location :	**North Haven CT 1, CT**			**Struct Class :**	**II**						**Page:**	**108**
Height :	**150.0 (ft)**			**Exposure Category :**	**B**							
Base Dia :	**37.37 (in)**			**Topographic Category :**	**1**							
Top Dia :	**15.00 (in)**			**Base Elev :**	**0.000 (ft)**							
Shape :	**12 Sides**											
Taper :	**0.156666 (in/ft)**											



Load Case: 1.0D + 1.0W — **60.00 mph Serviceability** — **33 Iterations**

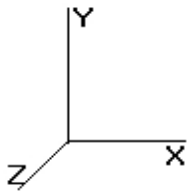
Gust Response Factor : 1.10 — **Wind Importance Factor : 1.00**

Dead Load Factor : 1.00

Wind Load Factor : 1.00

37.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.513	0.342	0.000	1.11	0.63
37.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.513	0.342	0.000	0.00	4.20
37.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.513	0.342	0.000	0.00	0.90
37.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.513	0.342	0.000	1.70	7.58
37.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.513	0.342	0.000	0.00	0.27
37.00	(4) # 20 Dywidag	Yes	1.00	1.187	7.50	0.63	0.74	6.513	0.342	0.000	5.32	0.00
38.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.562	0.344	0.000	0.00	0.28
38.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.562	0.344	0.000	0.00	1.18
38.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.562	0.344	0.000	1.12	0.63
38.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.562	0.344	0.000	0.00	4.20
38.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.562	0.344	0.000	0.00	0.90
38.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.562	0.344	0.000	1.72	7.58
38.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.562	0.344	0.000	0.00	0.27
38.00	(4) # 20 Dywidag	Yes	1.00	1.183	7.50	0.63	0.74	6.562	0.344	0.000	5.34	0.00
39.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.611	0.345	0.000	0.00	0.28
39.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.611	0.345	0.000	0.00	1.18
39.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.611	0.345	0.000	1.13	0.63
39.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.611	0.345	0.000	0.00	4.20
39.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.611	0.345	0.000	0.00	0.90
39.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.611	0.345	0.000	1.73	7.58
39.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.611	0.345	0.000	0.00	0.27
39.00	(4) # 20 Dywidag	Yes	1.00	1.178	7.50	0.63	0.74	6.611	0.345	0.000	5.36	0.00
40.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.659	0.347	0.000	0.00	0.28
40.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.659	0.347	0.000	0.00	1.18
40.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.659	0.347	0.000	1.14	0.63
40.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.659	0.347	0.000	0.00	4.20
40.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.659	0.347	0.000	0.00	0.90
40.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.659	0.347	0.000	1.74	7.58
40.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.659	0.347	0.000	0.00	0.27
40.00	(4) # 20 Dywidag	Yes	1.00	1.174	7.50	0.63	0.73	6.659	0.347	0.000	5.38	0.00
41.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.706	0.349	0.000	0.00	0.28
41.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.706	0.349	0.000	0.00	1.18
41.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.706	0.349	0.000	1.14	0.63
41.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.706	0.349	0.000	0.00	4.20
41.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.706	0.349	0.000	0.00	0.90
41.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.706	0.349	0.000	1.76	7.58
41.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.706	0.349	0.000	0.00	0.27
41.00	(4) # 20 Dywidag	Yes	1.00	1.170	7.50	0.63	0.73	6.706	0.349	0.000	5.39	0.00
42.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.753	0.351	0.000	0.00	0.28
42.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.753	0.351	0.000	0.00	1.18
42.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.753	0.351	0.000	1.15	0.63
42.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.753	0.351	0.000	0.00	4.20
42.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.753	0.351	0.000	0.00	0.90
42.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.753	0.351	0.000	1.77	7.58
42.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.753	0.351	0.000	0.00	0.27
42.00	(4) # 20 Dywidag	Yes	1.00	1.166	7.50	0.63	0.73	6.753	0.351	0.000	5.41	0.00
43.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.798	0.352	0.000	0.00	0.28
43.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.798	0.352	0.000	0.00	1.18
43.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.798	0.352	0.000	1.16	0.63
43.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.798	0.352	0.000	0.00	4.20
43.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.798	0.352	0.000	0.00	0.90
43.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.798	0.352	0.000	1.78	7.58
43.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.798	0.352	0.000	0.00	0.27
43.00	(4) # 20 Dywidag	Yes	1.00	1.162	7.50	0.63	0.73	6.798	0.352	0.000	5.43	0.00
44.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.843	0.354	0.000	0.00	0.28
44.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.843	0.354	0.000	0.00	1.18
44.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.843	0.354	0.000	1.17	0.63

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:26 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	109
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

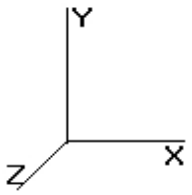


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

44.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.843	0.354	0.000	0.00	4.20
44.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.843	0.354	0.000	0.00	0.90
44.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.843	0.354	0.000	1.79	7.58
44.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.843	0.354	0.000	0.00	0.27
44.00	(4) # 20 Dywidag	Yes	1.00	1.158	7.50	0.63	0.72	6.843	0.354	0.000	5.45	0.00
45.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.887	0.356	0.000	0.00	0.28
45.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.887	0.356	0.000	0.00	1.18
45.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.887	0.356	0.000	1.17	0.63
45.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.887	0.356	0.000	0.00	4.20
45.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.887	0.356	0.000	0.00	0.90
45.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.887	0.356	0.000	1.80	7.58
45.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.887	0.356	0.000	0.00	0.27
45.00	(4) # 20 Dywidag	Yes	1.00	1.155	7.50	0.63	0.72	6.887	0.356	0.000	5.47	0.00
46.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.931	0.358	0.000	0.00	0.28
46.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.931	0.358	0.000	0.00	1.18
46.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.931	0.358	0.000	1.18	0.63
46.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.931	0.358	0.000	0.00	4.20
46.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.931	0.358	0.000	0.00	0.90
46.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.931	0.358	0.000	1.81	7.58
46.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.931	0.358	0.000	0.00	0.27
46.00	(4) # 20 Dywidag	Yes	1.00	1.151	7.50	0.63	0.72	6.931	0.358	0.000	5.48	0.00
47.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	6.973	0.359	0.000	0.00	0.28
47.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.973	0.359	0.000	0.00	1.18
47.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	6.973	0.359	0.000	1.19	0.63
47.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	6.973	0.359	0.000	0.00	4.20
47.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.973	0.359	0.000	0.00	0.90
47.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	6.973	0.359	0.000	1.83	7.58
47.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.973	0.359	0.000	0.00	0.27
47.00	(4) # 20 Dywidag	Yes	1.00	1.147	7.50	0.63	0.72	6.973	0.359	0.000	5.50	0.00
48.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.015	0.361	0.000	0.00	0.28
48.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.015	0.361	0.000	0.00	1.18
48.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.015	0.361	0.000	1.20	0.63
48.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.015	0.361	0.000	0.00	4.20
48.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.015	0.361	0.000	0.00	0.90
48.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.015	0.361	0.000	1.84	7.58
48.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.015	0.361	0.000	0.00	0.27
48.00	(4) # 20 Dywidag	Yes	1.00	1.144	7.50	0.63	0.71	7.015	0.361	0.000	5.52	0.00
49.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.057	0.363	0.000	0.00	0.28
49.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.057	0.363	0.000	0.00	1.18
49.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.057	0.363	0.000	1.20	0.63
49.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.057	0.363	0.000	0.00	4.20
49.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.057	0.363	0.000	0.00	0.90
49.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.057	0.363	0.000	1.85	7.58
49.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.057	0.363	0.000	0.00	0.27
49.00	(4) # 20 Dywidag	Yes	1.00	1.141	7.50	0.63	0.71	7.057	0.363	0.000	5.53	0.00
50.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.098	0.365	0.000	0.00	0.28
50.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.098	0.365	0.000	0.00	1.18
50.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.098	0.365	0.000	1.21	0.63
50.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.098	0.365	0.000	0.00	4.20
50.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.098	0.365	0.000	0.00	0.90
50.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.098	0.365	0.000	1.86	7.58
50.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.098	0.365	0.000	0.00	0.27
50.00	(4) # 20 Dywidag	Yes	1.00	1.137	7.50	0.63	0.71	7.098	0.365	0.000	5.55	0.00
51.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.138	0.367	0.000	0.00	0.28
51.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.138	0.367	0.000	0.00	1.18
51.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.138	0.367	0.000	1.22	0.63
51.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.138	0.367	0.000	0.00	4.20

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:27 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	110
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



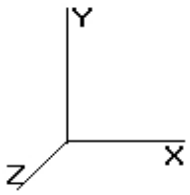
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

51.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.138	0.367	0.000	0.00	0.90
51.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.138	0.367	0.000	1.87	7.58
51.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.138	0.367	0.000	0.00	0.27
51.00	(4) # 20 Dywidag	Yes	1.00	1.134	7.50	0.63	0.71	7.138	0.367	0.000	5.57	0.00
52.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.178	0.369	0.000	0.00	0.28
52.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.178	0.369	0.000	0.00	1.18
52.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.178	0.369	0.000	1.22	0.63
52.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.178	0.369	0.000	0.00	4.20
52.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.178	0.369	0.000	0.00	0.90
52.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.178	0.369	0.000	1.88	7.58
52.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.178	0.369	0.000	0.00	0.27
52.00	(4) # 20 Dywidag	Yes	1.00	1.131	7.50	0.63	0.71	7.178	0.369	0.000	5.58	0.00
53.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.217	0.371	0.000	0.00	0.28
53.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.217	0.371	0.000	0.00	1.18
53.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.217	0.371	0.000	1.23	0.63
53.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.217	0.371	0.000	0.00	4.20
53.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.217	0.371	0.000	0.00	0.90
53.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.217	0.371	0.000	1.89	7.58
53.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.217	0.371	0.000	0.00	0.27
53.00	(4) # 20 Dywidag	Yes	1.00	1.128	7.50	0.63	0.70	7.217	0.371	0.000	5.60	0.00
54.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.255	0.373	0.000	0.00	0.28
54.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.255	0.373	0.000	0.00	1.18
54.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.255	0.373	0.000	1.24	0.63
54.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.255	0.373	0.000	0.00	4.20
54.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.255	0.373	0.000	0.00	0.90
54.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.255	0.373	0.000	1.90	7.58
54.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.255	0.373	0.000	0.00	0.27
54.00	(4) # 20 Dywidag	Yes	1.00	1.125	7.50	0.63	0.70	7.255	0.373	0.000	5.61	0.00
55.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.294	0.375	0.000	0.00	0.28
55.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.294	0.375	0.000	0.00	1.18
55.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.294	0.375	0.000	1.24	0.63
55.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.294	0.375	0.000	0.00	4.20
55.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.294	0.375	0.000	0.00	0.90
55.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.294	0.375	0.000	1.91	7.58
55.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.294	0.375	0.000	0.00	0.27
55.00	(4) # 20 Dywidag	Yes	1.00	1.122	7.50	0.63	0.70	7.294	0.375	0.000	5.63	0.00
56.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.377	0.000	0.00	0.28
56.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.377	0.000	0.00	1.18
56.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.331	0.377	0.000	1.25	0.63
56.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.377	0.000	0.00	4.20
56.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.377	0.000	0.00	0.90
56.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.331	0.377	0.000	1.92	7.58
56.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.331	0.377	0.000	0.00	0.27
56.00	(4) # 20 Dywidag	Yes	1.00	1.119	7.50	0.63	0.70	7.331	0.377	0.000	5.64	0.00
57.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.368	0.379	0.000	0.00	0.28
57.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.368	0.379	0.000	0.00	1.18
57.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.368	0.379	0.000	1.26	0.63
57.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.368	0.379	0.000	0.00	4.20
57.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.368	0.379	0.000	0.00	0.90
57.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.368	0.379	0.000	1.93	7.58
57.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.368	0.379	0.000	0.00	0.27
57.00	(4) # 20 Dywidag	Yes	1.00	1.116	7.50	0.63	0.70	7.368	0.379	0.000	5.65	0.00
58.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.405	0.381	0.000	0.00	0.28
58.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.405	0.381	0.000	0.00	1.18
58.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.405	0.381	0.000	1.26	0.63
58.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.405	0.381	0.000	0.00	4.20
58.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.405	0.381	0.000	0.00	0.90

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:27 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	111
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



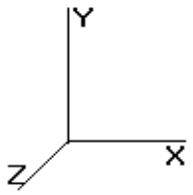
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

58.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.405	0.381	0.000	1.94	7.58
58.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.405	0.381	0.000	0.00	0.27
58.00	(4) # 20 Dywidag	Yes	1.00	1.113	7.50	0.63	0.70	7.405	0.381	0.000	5.67	0.00
59.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.441	0.383	0.000	0.00	0.28
59.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.441	0.383	0.000	0.00	1.18
59.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.441	0.383	0.000	1.27	0.63
59.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.441	0.383	0.000	0.00	4.20
59.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.441	0.383	0.000	0.00	0.90
59.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.441	0.383	0.000	1.95	7.58
59.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.441	0.383	0.000	0.00	0.27
59.00	(4) # 20 Dywidag	Yes	1.00	1.111	7.50	0.63	0.69	7.441	0.383	0.000	5.68	0.00
60.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.477	0.385	0.000	0.00	0.28
60.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.477	0.385	0.000	0.00	1.18
60.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.477	0.385	0.000	1.27	0.63
60.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.477	0.385	0.000	0.00	4.20
60.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.477	0.385	0.000	0.00	0.90
60.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.477	0.385	0.000	1.96	7.58
60.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.477	0.385	0.000	0.00	0.27
60.00	(4) # 20 Dywidag	Yes	1.00	1.108	7.50	0.63	0.69	7.477	0.385	0.000	5.70	0.00
61.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.513	0.387	0.000	0.00	0.28
61.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.513	0.387	0.000	0.00	1.18
61.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.513	0.387	0.000	1.28	0.63
61.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.513	0.387	0.000	0.00	4.20
61.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.513	0.387	0.000	0.00	0.90
61.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.513	0.387	0.000	1.97	7.58
61.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.513	0.387	0.000	0.00	0.27
61.00	(4) # 20 Dywidag	Yes	1.00	1.105	7.50	0.63	0.69	7.513	0.387	0.000	5.71	0.00
62.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.548	0.389	0.000	0.00	0.28
62.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.548	0.389	0.000	0.00	1.18
62.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.548	0.389	0.000	1.29	0.63
62.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.548	0.389	0.000	0.00	4.20
62.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.548	0.389	0.000	0.00	0.90
62.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.548	0.389	0.000	1.98	7.58
62.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.548	0.389	0.000	0.00	0.27
62.00	(4) # 20 Dywidag	Yes	1.00	1.103	7.50	0.63	0.69	7.548	0.389	0.000	5.72	0.00
63.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.582	0.391	0.000	0.00	0.28
63.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.582	0.391	0.000	0.00	1.18
63.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.582	0.391	0.000	1.29	0.63
63.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.582	0.391	0.000	0.00	4.20
63.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.582	0.391	0.000	0.00	0.90
63.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.582	0.391	0.000	1.99	7.58
63.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.582	0.391	0.000	0.00	0.27
63.00	(4) # 20 Dywidag	Yes	1.00	1.100	7.50	0.63	0.69	7.582	0.391	0.000	5.74	0.00
64.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.616	0.394	0.000	0.00	0.28
64.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.616	0.394	0.000	0.00	1.18
64.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.616	0.394	0.000	1.30	0.63
64.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.616	0.394	0.000	0.00	4.20
64.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.616	0.394	0.000	0.00	0.90
64.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.616	0.394	0.000	1.99	7.58
64.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.616	0.394	0.000	0.00	0.27
64.00	(4) # 20 Dywidag	Yes	1.00	1.098	7.50	0.63	0.69	7.616	0.394	0.000	5.75	0.00
65.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.650	0.396	0.000	0.00	0.28
65.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.650	0.396	0.000	0.00	1.18
65.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.650	0.396	0.000	1.30	0.63
65.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.650	0.396	0.000	0.00	4.20
65.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.650	0.396	0.000	0.00	0.90
65.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.650	0.396	0.000	2.00	7.58

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:27 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	112
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



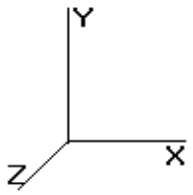
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

65.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.650	0.396	0.000	0.00	0.27
65.00	(4) # 20 Dywidag	Yes	1.00	1.095	7.50	0.63	0.68	7.650	0.396	0.000	5.76	0.00
66.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.684	0.398	0.000	0.00	0.28
66.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.684	0.398	0.000	0.00	1.18
66.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.684	0.398	0.000	1.31	0.63
66.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.684	0.398	0.000	0.00	4.20
66.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.684	0.398	0.000	0.00	0.90
66.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.684	0.398	0.000	2.01	7.58
66.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.684	0.398	0.000	0.00	0.27
66.00	(4) # 20 Dywidag	Yes	1.00	1.093	7.50	0.63	0.68	7.684	0.398	0.000	5.77	0.00
67.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.717	0.400	0.000	0.00	0.28
67.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.717	0.400	0.000	0.00	1.18
67.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.717	0.400	0.000	1.32	0.63
67.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.717	0.400	0.000	0.00	4.20
67.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.717	0.400	0.000	0.00	0.90
67.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.717	0.400	0.000	2.02	7.58
67.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.717	0.400	0.000	0.00	0.27
67.00	(4) # 20 Dywidag	Yes	1.00	1.091	7.50	0.63	0.68	7.717	0.400	0.000	5.79	0.00
68.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.749	0.403	0.000	0.00	0.28
68.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.749	0.403	0.000	0.00	1.18
68.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.749	0.403	0.000	1.32	0.63
68.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.749	0.403	0.000	0.00	4.20
68.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.749	0.403	0.000	0.00	0.90
68.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.749	0.403	0.000	2.03	7.58
68.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.749	0.403	0.000	0.00	0.27
68.00	(4) # 20 Dywidag	Yes	1.00	1.088	7.50	0.63	0.68	7.749	0.403	0.000	5.80	0.00
69.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.782	0.405	0.000	0.00	0.28
69.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.782	0.405	0.000	0.00	1.18
69.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.782	0.405	0.000	1.33	0.63
69.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.782	0.405	0.000	0.00	4.20
69.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.782	0.405	0.000	0.00	0.90
69.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.782	0.405	0.000	2.04	7.58
69.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.782	0.405	0.000	0.00	0.27
69.00	(4) # 20 Dywidag	Yes	1.00	1.086	7.50	0.63	0.68	7.782	0.405	0.000	5.81	0.00
70.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.814	0.407	0.000	0.00	0.28
70.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.814	0.407	0.000	0.00	1.18
70.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.814	0.407	0.000	1.33	0.63
70.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.814	0.407	0.000	0.00	4.20
70.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.814	0.407	0.000	0.00	0.90
70.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.814	0.407	0.000	2.05	7.58
70.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.814	0.407	0.000	0.00	0.27
70.00	(4) # 20 Dywidag	Yes	1.00	1.084	7.50	0.63	0.68	7.814	0.407	0.000	5.82	0.00
70.00	(2) 0.51" Hybrid	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.408	0.000	0.00	0.00
70.00	(2) 0.78" 8 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.408	0.000	0.00	0.00
70.00	(1) 1 1/4" Coax	Yes	0.00	1.200	1.55	0.00	0.00	7.814	0.408	0.000	0.00	0.00
70.00	(4) 1.24" 4 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.408	0.000	0.00	0.00
70.00	(6) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.408	0.000	0.00	0.00
70.00	(1) 3" Conduit	Yes	0.00	1.200	2.38	0.00	0.00	7.814	0.408	0.000	0.00	0.00
70.00	(6) 5/16" Coax	Yes	0.00	0.000	0.00	0.00	0.00	7.814	0.408	0.000	0.00	0.00
70.00	(4) # 20 Dywidag	Yes	0.00	1.084	7.50	0.00	0.00	7.814	0.408	0.000	0.00	0.00
71.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.846	0.410	0.000	0.00	0.28
71.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.846	0.410	0.000	0.00	1.18
71.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.15	7.846	0.410	0.000	1.34	0.63
71.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.846	0.410	0.000	0.00	4.20
71.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.846	0.410	0.000	0.00	0.90
71.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.846	0.410	0.000	2.05	7.58
71.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.846	0.410	0.000	0.00	0.27

Pole :	302482				Code: ANSI/TIA-222 Rev G						11/12/2014 9:57:27 AM	
Location :	North Haven CT 1, CT				Struct Class : II						Page: 113	
Height :	150.0 (ft)				Exposure Category : B							
Base Dia :	37.37 (in)				Topographic Category : 1							
Top Dia :	15.00 (in)				Base Elev : 0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



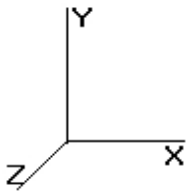
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

71.00	(4) # 20 Dywidag	Yes	1.00	1.082	7.50	0.62	0.68	7.846	0.410	0.000	5.83	0.00
72.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.877	0.412	0.000	0.00	0.28
72.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.877	0.412	0.000	0.00	1.18
72.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.877	0.412	0.000	1.34	0.63
72.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.877	0.412	0.000	0.00	4.20
72.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.877	0.412	0.000	0.00	0.90
72.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.877	0.412	0.000	2.06	7.58
72.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.877	0.412	0.000	0.00	0.27
72.00	(4) # 20 Dywidag	Yes	1.00	1.080	7.50	0.63	0.67	7.877	0.412	0.000	5.85	0.00
73.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.908	0.414	0.000	0.00	0.28
73.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.908	0.414	0.000	0.00	1.18
73.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.908	0.414	0.000	1.35	0.63
73.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.908	0.414	0.000	0.00	4.20
73.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.908	0.414	0.000	0.00	0.90
73.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.908	0.414	0.000	2.07	7.58
73.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.908	0.414	0.000	0.00	0.27
73.00	(4) # 20 Dywidag	Yes	1.00	1.077	7.50	0.63	0.67	7.908	0.414	0.000	5.86	0.00
73.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	7.924	0.416	0.000	0.00	0.14
73.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	7.924	0.416	0.000	0.00	0.59
73.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	7.924	0.416	0.000	0.68	0.32
73.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	7.924	0.416	0.000	0.00	2.10
73.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.924	0.416	0.000	0.00	0.45
73.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	7.924	0.416	0.000	1.04	3.79
73.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.924	0.416	0.000	0.00	0.14
73.50	(4) # 20 Dywidag	Yes	0.50	1.076	7.50	0.31	0.34	7.924	0.416	0.000	2.93	0.00
74.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.410	0.000	0.00	0.14
74.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.410	0.000	0.00	0.59
74.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	7.939	0.410	0.000	0.68	0.31
74.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.410	0.000	0.00	2.10
74.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.410	0.000	0.00	0.45
74.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	7.939	0.410	0.000	1.04	3.79
74.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	7.939	0.410	0.000	0.00	0.13
74.00	(4) # 20 Dywidag	Yes	0.50	1.075	7.50	0.31	0.34	7.939	0.410	0.000	2.93	0.00
75.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	7.969	0.412	0.000	0.00	0.28
75.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.969	0.412	0.000	0.00	1.18
75.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	7.969	0.412	0.000	1.36	0.63
75.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	7.969	0.412	0.000	0.00	4.20
75.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.969	0.412	0.000	0.00	0.90
75.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	7.969	0.412	0.000	2.09	7.58
75.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	7.969	0.412	0.000	0.00	0.27
75.00	(4) # 20 Dywidag	Yes	1.00	1.073	7.50	0.63	0.67	7.969	0.412	0.000	5.88	0.00
76.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.000	0.414	0.000	0.00	0.28
76.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.000	0.414	0.000	0.00	1.18
76.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.000	0.414	0.000	1.36	0.63
76.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.000	0.414	0.000	0.00	4.20
76.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.000	0.414	0.000	0.00	0.90
76.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.000	0.414	0.000	2.09	7.58
76.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.000	0.414	0.000	0.00	0.27
76.00	(4) # 20 Dywidag	Yes	1.00	1.071	7.50	0.63	0.67	8.000	0.414	0.000	5.89	0.00
77.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.030	0.416	0.000	0.00	0.28
77.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.030	0.416	0.000	0.00	1.18
77.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.030	0.416	0.000	1.37	0.63
77.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.030	0.416	0.000	0.00	4.20
77.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.030	0.416	0.000	0.00	0.90
77.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.030	0.416	0.000	2.10	7.58
77.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.030	0.416	0.000	0.00	0.27
77.00	(4) # 20 Dywidag	Yes	1.00	1.069	7.50	0.63	0.67	8.030	0.416	0.000	5.90	0.00

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:27 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	114
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



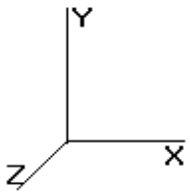
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

78.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.059	0.419	0.000	0.00	0.28
78.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.059	0.419	0.000	0.00	1.18
78.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.059	0.419	0.000	1.37	0.63
78.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.059	0.419	0.000	0.00	4.20
78.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.059	0.419	0.000	0.00	0.90
78.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.059	0.419	0.000	2.11	7.58
78.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.059	0.419	0.000	0.00	0.27
78.00	(4) # 20 Dywidag	Yes	1.00	1.067	7.50	0.63	0.67	8.059	0.419	0.000	5.91	0.00
79.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.089	0.421	0.000	0.00	0.28
79.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.089	0.421	0.000	0.00	1.18
79.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.089	0.421	0.000	1.38	0.63
79.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.089	0.421	0.000	0.00	4.20
79.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.089	0.421	0.000	0.00	0.90
79.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.089	0.421	0.000	2.12	7.58
79.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.089	0.421	0.000	0.00	0.27
79.00	(4) # 20 Dywidag	Yes	1.00	1.065	7.50	0.63	0.67	8.089	0.421	0.000	5.92	0.00
80.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.118	0.424	0.000	0.00	0.28
80.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.118	0.424	0.000	0.00	1.18
80.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.118	0.424	0.000	1.38	0.63
80.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.118	0.424	0.000	0.00	4.20
80.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.118	0.424	0.000	0.00	0.90
80.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.118	0.424	0.000	2.13	7.58
80.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.118	0.424	0.000	0.00	0.27
80.00	(4) # 20 Dywidag	Yes	1.00	1.063	7.50	0.63	0.66	8.118	0.424	0.000	5.94	0.00
81.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.147	0.426	0.000	0.00	0.28
81.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.147	0.426	0.000	0.00	1.18
81.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.147	0.426	0.000	1.39	0.63
81.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.147	0.426	0.000	0.00	4.20
81.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.147	0.426	0.000	0.00	0.90
81.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.147	0.426	0.000	2.13	7.58
81.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.147	0.426	0.000	0.00	0.27
81.00	(4) # 20 Dywidag	Yes	1.00	1.062	7.50	0.63	0.66	8.147	0.426	0.000	5.95	0.00
82.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.175	0.429	0.000	0.00	0.28
82.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.175	0.429	0.000	0.00	1.18
82.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.175	0.429	0.000	1.39	0.63
82.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.175	0.429	0.000	0.00	4.20
82.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.175	0.429	0.000	0.00	0.90
82.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.175	0.429	0.000	2.14	7.58
82.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.175	0.429	0.000	0.00	0.27
82.00	(4) # 20 Dywidag	Yes	1.00	1.060	7.50	0.63	0.66	8.175	0.429	0.000	5.96	0.00
83.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.204	0.432	0.000	0.00	0.28
83.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.204	0.432	0.000	0.00	1.18
83.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.204	0.432	0.000	1.40	0.63
83.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.204	0.432	0.000	0.00	4.20
83.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.204	0.432	0.000	0.00	0.90
83.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.204	0.432	0.000	2.15	7.58
83.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.204	0.432	0.000	0.00	0.27
83.00	(4) # 20 Dywidag	Yes	1.00	1.058	7.50	0.63	0.66	8.204	0.432	0.000	5.97	0.00
84.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.232	0.434	0.000	0.00	0.28
84.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.232	0.434	0.000	0.00	1.18
84.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.232	0.434	0.000	1.40	0.63
84.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.232	0.434	0.000	0.00	4.20
84.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.232	0.434	0.000	0.00	0.90
84.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.232	0.434	0.000	2.16	7.58
84.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.232	0.434	0.000	0.00	0.27
84.00	(4) # 20 Dywidag	Yes	1.00	1.056	7.50	0.63	0.66	8.232	0.434	0.000	5.98	0.00
85.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.260	0.437	0.000	0.00	0.28

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:27 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	115
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



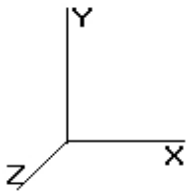
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

85.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.260	0.437	0.000	0.00	1.18
85.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.260	0.437	0.000	1.41	0.63
85.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.260	0.437	0.000	0.00	4.20
85.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.260	0.437	0.000	0.00	0.90
85.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.260	0.437	0.000	2.16	7.58
85.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.260	0.437	0.000	0.00	0.27
85.00	(4) # 20 Dywidag	Yes	1.00	1.054	7.50	0.63	0.66	8.260	0.437	0.000	5.99	0.00
86.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.287	0.440	0.000	0.00	0.28
86.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.287	0.440	0.000	0.00	1.18
86.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.287	0.440	0.000	1.41	0.63
86.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.287	0.440	0.000	0.00	4.20
86.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.287	0.440	0.000	0.00	0.90
86.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.287	0.440	0.000	2.17	7.58
86.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.287	0.440	0.000	0.00	0.27
86.00	(4) # 20 Dywidag	Yes	1.00	1.053	7.50	0.63	0.66	8.287	0.440	0.000	6.00	0.00
86.50	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	8.301	0.442	0.000	0.00	0.14
86.50	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	8.301	0.442	0.000	0.00	0.59
86.50	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	8.301	0.442	0.000	0.71	0.31
86.50	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	8.301	0.442	0.000	0.00	2.10
86.50	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	8.301	0.442	0.000	0.00	0.45
86.50	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	8.301	0.442	0.000	1.09	3.79
86.50	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	8.301	0.442	0.000	0.00	0.14
86.50	(4) # 20 Dywidag	Yes	0.50	1.052	7.50	0.31	0.33	8.301	0.442	0.000	3.00	0.00
87.00	(2) 0.51" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	8.315	0.443	0.000	0.00	0.14
87.00	(2) 0.78" 8 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	8.315	0.443	0.000	0.00	0.59
87.00	(1) 1 1/4" Coax	Yes	0.50	1.200	1.55	0.06	0.08	8.315	0.443	0.000	0.71	0.31
87.00	(4) 1.24" 4 AWG 6	Yes	0.50	0.000	0.00	0.00	0.00	8.315	0.443	0.000	0.00	2.10
87.00	(6) 1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	8.315	0.443	0.000	0.00	0.45
87.00	(1) 3" Conduit	Yes	0.50	1.200	2.38	0.10	0.12	8.315	0.443	0.000	1.09	3.79
87.00	(6) 5/16" Coax	Yes	0.50	0.000	0.00	0.00	0.00	8.315	0.443	0.000	0.00	0.14
87.00	(4) # 20 Dywidag	Yes	0.50	1.051	7.50	0.31	0.33	8.315	0.443	0.000	3.00	0.00
88.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.342	0.445	0.000	0.00	0.28
88.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.342	0.445	0.000	0.00	1.18
88.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.342	0.445	0.000	1.42	0.63
88.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.342	0.445	0.000	0.00	4.20
88.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.342	0.445	0.000	0.00	0.90
88.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.342	0.445	0.000	2.18	7.58
88.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.342	0.445	0.000	0.00	0.27
88.00	(4) # 20 Dywidag	Yes	1.00	1.049	7.50	0.63	0.66	8.342	0.445	0.000	6.02	0.00
89.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.369	0.448	0.000	0.00	0.28
89.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.369	0.448	0.000	0.00	1.18
89.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.369	0.448	0.000	1.43	0.63
89.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.369	0.448	0.000	0.00	4.20
89.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.369	0.448	0.000	0.00	0.90
89.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.369	0.448	0.000	2.19	7.58
89.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.369	0.448	0.000	0.00	0.27
89.00	(4) # 20 Dywidag	Yes	1.00	1.047	7.50	0.63	0.65	8.369	0.448	0.000	6.03	0.00
90.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.396	0.451	0.000	0.00	0.28
90.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.396	0.451	0.000	0.00	1.18
90.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.396	0.451	0.000	1.43	0.63
90.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.396	0.451	0.000	0.00	4.20
90.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.396	0.451	0.000	0.00	0.90
90.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.396	0.451	0.000	2.20	7.58
90.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.396	0.451	0.000	0.00	0.27
90.00	(4) # 20 Dywidag	Yes	1.00	1.046	7.50	0.63	0.65	8.396	0.451	0.000	6.04	0.00
91.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.422	0.454	0.000	0.00	0.28
91.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.422	0.454	0.000	0.00	1.18

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:27 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	116
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

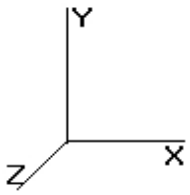
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

91.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.422	0.454	0.000	1.44	0.63
91.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.422	0.454	0.000	0.00	4.20
91.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.422	0.454	0.000	0.00	0.90
91.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.422	0.454	0.000	2.20	7.58
91.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.422	0.454	0.000	0.00	0.27
91.00	(4) # 20 Dywidag	Yes	1.00	1.044	7.50	0.63	0.65	8.422	0.454	0.000	6.05	0.00
92.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.448	0.457	0.000	0.00	0.28
92.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.448	0.457	0.000	0.00	1.18
92.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.448	0.457	0.000	1.44	0.63
92.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.448	0.457	0.000	0.00	4.20
92.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.448	0.457	0.000	0.00	0.90
92.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.448	0.457	0.000	2.21	7.58
92.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.448	0.457	0.000	0.00	0.27
92.00	(4) # 20 Dywidag	Yes	1.00	1.042	7.50	0.63	0.65	8.448	0.457	0.000	6.05	0.00
93.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.475	0.460	0.000	0.00	0.28
93.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.475	0.460	0.000	0.00	1.18
93.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.475	0.460	0.000	1.44	0.63
93.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.475	0.460	0.000	0.00	4.20
93.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.475	0.460	0.000	0.00	0.90
93.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.475	0.460	0.000	2.22	7.58
93.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.475	0.460	0.000	0.00	0.27
93.00	(4) # 20 Dywidag	Yes	1.00	1.041	7.50	0.63	0.65	8.475	0.460	0.000	6.06	0.00
94.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.501	0.463	0.000	0.00	0.28
94.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.501	0.463	0.000	0.00	1.18
94.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.501	0.463	0.000	1.45	0.63
94.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.501	0.463	0.000	0.00	4.20
94.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.501	0.463	0.000	0.00	0.90
94.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.501	0.463	0.000	2.23	7.58
94.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.501	0.463	0.000	0.00	0.27
94.00	(4) # 20 Dywidag	Yes	1.00	1.039	7.50	0.63	0.65	8.501	0.463	0.000	6.07	0.00
95.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.526	0.466	0.000	0.00	0.28
95.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.526	0.466	0.000	0.00	1.18
95.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.526	0.466	0.000	1.45	0.63
95.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.526	0.466	0.000	0.00	4.20
95.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.526	0.466	0.000	0.00	0.90
95.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.526	0.466	0.000	2.23	7.58
95.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.526	0.466	0.000	0.00	0.27
95.00	(4) # 20 Dywidag	Yes	1.00	1.038	7.50	0.63	0.65	8.526	0.466	0.000	6.08	0.00
95.33	(2) 0.51" Hybrid	Yes	0.33	0.000	0.00	0.00	0.00	8.535	0.468	0.000	0.00	0.09
95.33	(2) 0.78" 8 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	8.535	0.468	0.000	0.00	0.39
95.33	(1) 1 1/4" Coax	Yes	0.33	1.200	1.55	0.04	0.05	8.535	0.468	0.000	0.48	0.21
95.33	(4) 1.24" 4 AWG 6	Yes	0.33	0.000	0.00	0.00	0.00	8.535	0.468	0.000	0.00	1.40
95.33	(6) 1/2" Coax	Yes	0.33	0.000	0.00	0.00	0.00	8.535	0.468	0.000	0.00	0.30
95.33	(1) 3" Conduit	Yes	0.33	1.200	2.38	0.07	0.08	8.535	0.468	0.000	0.74	2.53
95.33	(6) 5/16" Coax	Yes	0.33	0.000	0.00	0.00	0.00	8.535	0.468	0.000	0.00	0.09
95.33	(4) # 20 Dywidag	Yes	0.33	1.037	7.50	0.21	0.22	8.535	0.468	0.000	2.03	0.00
96.00	(2) 0.51" Hybrid	Yes	0.67	0.000	0.00	0.00	0.00	8.552	0.470	0.000	0.00	0.19
96.00	(2) 0.78" 8 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	8.552	0.470	0.000	0.00	0.79
96.00	(1) 1 1/4" Coax	Yes	0.67	1.200	1.55	0.09	0.10	8.552	0.470	0.000	0.97	0.42
96.00	(4) 1.24" 4 AWG 6	Yes	0.67	0.000	0.00	0.00	0.00	8.552	0.470	0.000	0.00	2.80
96.00	(6) 1/2" Coax	Yes	0.67	0.000	0.00	0.00	0.00	8.552	0.470	0.000	0.00	0.60
96.00	(1) 3" Conduit	Yes	0.67	1.200	2.38	0.13	0.16	8.552	0.470	0.000	1.49	5.05
96.00	(6) 5/16" Coax	Yes	0.67	0.000	0.00	0.00	0.00	8.552	0.470	0.000	0.00	0.18
96.00	(4) # 20 Dywidag	Yes	0.67	1.036	7.50	0.42	0.43	8.552	0.470	0.000	4.06	0.00
97.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.577	0.472	0.000	0.00	0.28
97.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.577	0.472	0.000	0.00	1.18
97.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.577	0.472	0.000	1.46	0.63

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:27 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	117
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											

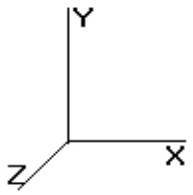


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

97.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.577	0.472	0.000	0.00	4.20
97.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.577	0.472	0.000	0.00	0.90
97.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.577	0.472	0.000	2.25	7.58
97.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.577	0.472	0.000	0.00	0.27
97.00	(4) # 20 Dywidag	Yes	1.00	1.035	7.50	0.63	0.65	8.577	0.472	0.000	6.10	0.00
98.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.602	0.475	0.000	0.00	0.28
98.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.602	0.475	0.000	0.00	1.18
98.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.602	0.475	0.000	1.47	0.63
98.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.602	0.475	0.000	0.00	4.20
98.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.602	0.475	0.000	0.00	0.90
98.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.602	0.475	0.000	2.25	7.58
98.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.602	0.475	0.000	0.00	0.27
98.00	(4) # 20 Dywidag	Yes	1.00	1.033	7.50	0.63	0.65	8.602	0.475	0.000	6.11	0.00
99.00	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.627	0.479	0.000	0.00	0.28
99.00	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.627	0.479	0.000	0.00	1.18
99.00	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.627	0.479	0.000	1.47	0.63
99.00	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.627	0.479	0.000	0.00	4.20
99.00	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.627	0.479	0.000	0.00	0.90
99.00	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.627	0.479	0.000	2.26	7.58
99.00	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.627	0.479	0.000	0.00	0.27
99.00	(4) # 20 Dywidag	Yes	1.00	1.032	7.50	0.63	0.64	8.627	0.479	0.000	6.12	0.00
100.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.652	0.482	0.000	0.00	0.28
100.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.652	0.482	0.000	0.00	1.18
100.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.652	0.482	0.000	1.48	0.63
100.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.652	0.482	0.000	0.00	4.20
100.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.652	0.482	0.000	0.00	0.90
100.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.652	0.482	0.000	2.27	7.58
100.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.652	0.482	0.000	0.00	0.27
100.0	(4) # 20 Dywidag	Yes	1.00	1.030	7.50	0.63	0.64	8.652	0.482	0.000	6.13	0.00
101.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.677	0.485	0.000	0.00	0.28
101.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.677	0.485	0.000	0.00	1.18
101.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	8.677	0.485	0.000	1.48	0.63
101.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.677	0.485	0.000	0.00	4.20
101.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.677	0.485	0.000	0.00	0.90
101.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	8.677	0.485	0.000	2.27	7.58
101.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.677	0.485	0.000	0.00	0.27
101.0	(4) # 20 Dywidag	Yes	1.00	1.029	7.50	0.63	0.64	8.677	0.485	0.000	6.14	0.00
102.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.701	0.168	1.204	0.00	0.28
102.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.701	0.168	1.204	0.00	1.18
102.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.701	0.168	1.204	0.00	0.63
102.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.701	0.168	1.204	0.00	4.20
102.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.701	0.168	1.204	0.00	0.90
102.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.701	0.168	1.204	0.00	7.58
102.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.701	0.168	1.204	0.00	0.27
103.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.726	0.169	1.207	0.00	0.28
103.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.726	0.169	1.207	0.00	1.18
103.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.726	0.169	1.207	0.00	0.63
103.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.726	0.169	1.207	0.00	4.20
103.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.726	0.169	1.207	0.00	0.90
103.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.726	0.169	1.207	0.00	7.58
103.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.726	0.169	1.207	0.00	0.27
104.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.750	0.170	1.211	0.00	0.28
104.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.750	0.170	1.211	0.00	1.18
104.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.750	0.170	1.211	0.00	0.63
104.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.750	0.170	1.211	0.00	4.20
104.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.750	0.170	1.211	0.00	0.90
104.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.750	0.170	1.211	0.00	7.58

Pole :	302482			Code: ANSI/TIA-222 Rev G							11/12/2014 9:57:28 AM	
Location :	North Haven CT 1, CT			Struct Class : II							Page: 118	
Height :	150.0 (ft)			Exposure Category : B								
Base Dia :	37.37 (in)			Topographic Category : 1								
Top Dia :	15.00 (in)			Base Elev : 0.000 (ft)								
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

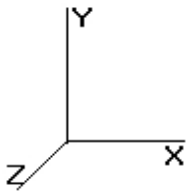
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

104.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.750	0.170	1.211	0.00	0.27
105.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.774	0.172	1.215	0.00	0.28
105.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.774	0.172	1.215	0.00	1.18
105.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.774	0.172	1.215	0.00	0.63
105.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.774	0.172	1.215	0.00	4.20
105.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.774	0.172	1.215	0.00	0.90
105.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.774	0.172	1.215	0.00	7.58
105.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.774	0.172	1.215	0.00	0.27
106.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.797	0.173	1.218	0.00	0.28
106.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.797	0.173	1.218	0.00	1.18
106.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.797	0.173	1.218	0.00	0.63
106.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.797	0.173	1.218	0.00	4.20
106.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.797	0.173	1.218	0.00	0.90
106.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.797	0.173	1.218	0.00	7.58
106.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.797	0.173	1.218	0.00	0.27
107.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.821	0.174	1.222	0.00	0.28
107.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.821	0.174	1.222	0.00	1.18
107.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.821	0.174	1.222	0.00	0.63
107.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.821	0.174	1.222	0.00	4.20
107.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.821	0.174	1.222	0.00	0.90
107.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.821	0.174	1.222	0.00	7.58
107.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.821	0.174	1.222	0.00	0.27
108.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.845	0.175	1.226	0.00	0.28
108.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.845	0.175	1.226	0.00	1.18
108.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.845	0.175	1.226	0.00	0.63
108.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.845	0.175	1.226	0.00	4.20
108.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.845	0.175	1.226	0.00	0.90
108.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.845	0.175	1.226	0.00	7.58
108.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.845	0.175	1.226	0.00	0.27
109.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.868	0.177	1.230	0.00	0.28
109.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.868	0.177	1.230	0.00	1.18
109.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.868	0.177	1.230	0.00	0.63
109.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.868	0.177	1.230	0.00	4.20
109.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.868	0.177	1.230	0.00	0.90
109.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.868	0.177	1.230	0.00	7.58
109.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.868	0.177	1.230	0.00	0.27
110.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.891	0.178	1.234	0.00	0.28
110.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.891	0.178	1.234	0.00	1.18
110.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.891	0.178	1.234	0.00	0.63
110.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.891	0.178	1.234	0.00	4.20
110.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.891	0.178	1.234	0.00	0.90
110.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.891	0.178	1.234	0.00	7.58
110.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.891	0.178	1.234	0.00	0.27
110.0	(2) 0.51" Hybrid	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.178	1.235	0.00	0.00
110.0	(2) 0.78" 8 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.178	1.235	0.00	0.00
110.0	(1) 1 1/4" Coax	Yes	0.00	0.000	1.55	0.00	0.00	8.891	0.178	1.235	0.00	0.00
110.0	(4) 1.24" 4 AWG 6	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.178	1.235	0.00	0.00
110.0	(6) 1/2" Coax	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.178	1.235	0.00	0.00
110.0	(1) 3" Conduit	Yes	0.00	0.000	2.38	0.00	0.00	8.891	0.178	1.235	0.00	0.00
110.0	(6) 5/16" Coax	Yes	0.00	0.000	0.00	0.00	0.00	8.891	0.178	1.235	0.00	0.00
111.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.914	0.179	1.237	0.00	0.28
111.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.914	0.179	1.237	0.00	1.18
111.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.914	0.179	1.237	0.00	0.63
111.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.914	0.179	1.237	0.00	4.20
111.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.914	0.179	1.237	0.00	0.90
111.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.914	0.179	1.237	0.00	7.58
111.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.914	0.179	1.237	0.00	0.27

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:28 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	119
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



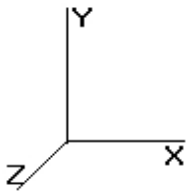
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

112.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.937	0.180	1.241	0.00	0.28
112.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.937	0.180	1.241	0.00	1.18
112.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.937	0.180	1.241	0.00	0.63
112.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.937	0.180	1.241	0.00	4.20
112.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.937	0.180	1.241	0.00	0.90
112.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.937	0.180	1.241	0.00	7.58
112.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.937	0.180	1.241	0.00	0.27
113.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.960	0.182	1.246	0.00	0.28
113.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.960	0.182	1.246	0.00	1.18
113.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.960	0.182	1.246	0.00	0.63
113.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.960	0.182	1.246	0.00	4.20
113.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.960	0.182	1.246	0.00	0.90
113.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.960	0.182	1.246	0.00	7.58
113.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.960	0.182	1.246	0.00	0.27
114.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	8.982	0.183	1.250	0.00	0.28
114.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.982	0.183	1.250	0.00	1.18
114.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	8.982	0.183	1.250	0.00	0.63
114.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	8.982	0.183	1.250	0.00	4.20
114.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.982	0.183	1.250	0.00	0.90
114.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	8.982	0.183	1.250	0.00	7.58
114.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	8.982	0.183	1.250	0.00	0.27
115.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.005	0.185	1.254	0.00	0.28
115.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.005	0.185	1.254	0.00	1.18
115.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.005	0.185	1.254	0.00	0.63
115.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.005	0.185	1.254	0.00	4.20
115.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.005	0.185	1.254	0.00	0.90
115.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.005	0.185	1.254	0.00	7.58
115.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.005	0.185	1.254	0.00	0.27
116.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.027	0.186	1.258	0.00	0.28
116.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.027	0.186	1.258	0.00	1.18
116.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.027	0.186	1.258	0.00	0.63
116.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.027	0.186	1.258	0.00	4.20
116.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.027	0.186	1.258	0.00	0.90
116.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.027	0.186	1.258	0.00	7.58
116.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.027	0.186	1.258	0.00	0.27
117.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.049	0.187	1.262	0.00	0.28
117.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.049	0.187	1.262	0.00	1.18
117.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.049	0.187	1.262	0.00	0.63
117.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.049	0.187	1.262	0.00	4.20
117.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.049	0.187	1.262	0.00	0.90
117.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.049	0.187	1.262	0.00	7.58
117.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.049	0.187	1.262	0.00	0.27
118.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.071	0.189	1.267	0.00	0.28
118.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.071	0.189	1.267	0.00	1.18
118.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.071	0.189	1.267	0.00	0.63
118.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.071	0.189	1.267	0.00	4.20
118.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.071	0.189	1.267	0.00	0.90
118.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.071	0.189	1.267	0.00	7.58
118.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.071	0.189	1.267	0.00	0.27
119.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.093	0.190	1.271	0.00	0.28
119.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.093	0.190	1.271	0.00	1.18
119.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.093	0.190	1.271	0.00	0.63
119.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.093	0.190	1.271	0.00	4.20
119.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.093	0.190	1.271	0.00	0.90
119.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.093	0.190	1.271	0.00	7.58
119.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.093	0.190	1.271	0.00	0.27
120.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.115	0.192	1.276	0.00	0.28

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:28 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	120
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



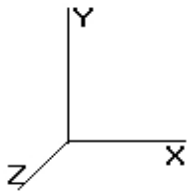
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

120.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.115	0.192	1.276	0.00	1.18
120.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.115	0.192	1.276	0.00	0.63
120.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.115	0.192	1.276	0.00	4.20
120.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.115	0.192	1.276	0.00	0.90
120.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.115	0.192	1.276	0.00	7.58
120.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.115	0.192	1.276	0.00	0.27
121.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.193	1.280	0.00	0.28
121.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.193	1.280	0.00	1.18
121.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.136	0.193	1.280	0.00	0.63
121.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.193	1.280	0.00	4.20
121.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.193	1.280	0.00	0.90
121.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.136	0.193	1.280	0.00	7.58
121.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.136	0.193	1.280	0.00	0.27
122.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.195	1.285	0.00	0.28
122.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.195	1.285	0.00	1.18
122.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.158	0.195	1.285	0.00	0.63
122.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.195	1.285	0.00	4.20
122.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.195	1.285	0.00	0.90
122.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.158	0.195	1.285	0.00	7.58
122.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.158	0.195	1.285	0.00	0.27
123.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.179	0.197	1.290	0.00	0.28
123.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.179	0.197	1.290	0.00	1.18
123.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.179	0.197	1.290	0.00	0.63
123.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.179	0.197	1.290	0.00	4.20
123.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.179	0.197	1.290	0.00	0.90
123.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.179	0.197	1.290	0.00	7.58
123.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.179	0.197	1.290	0.00	0.27
124.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.201	0.198	1.295	0.00	0.28
124.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.201	0.198	1.295	0.00	1.18
124.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.201	0.198	1.295	0.00	0.63
124.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.201	0.198	1.295	0.00	4.20
124.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.201	0.198	1.295	0.00	0.90
124.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.201	0.198	1.295	0.00	7.58
124.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.201	0.198	1.295	0.00	0.27
125.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.222	0.200	1.300	0.00	0.28
125.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.222	0.200	1.300	0.00	1.18
125.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.222	0.200	1.300	0.00	0.63
125.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.222	0.200	1.300	0.00	4.20
125.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.222	0.200	1.300	0.00	0.90
125.0	(1) 3" Conduit	Yes	1.00	0.000	2.38	0.20	0.00	9.222	0.200	1.300	0.00	7.58
125.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.222	0.200	1.300	0.00	0.27
126.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.243	0.202	0.000	0.00	0.28
126.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.243	0.202	0.000	0.00	1.18
126.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.243	0.202	0.000	1.58	0.63
126.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.243	0.202	0.000	0.00	4.20
126.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.243	0.202	0.000	0.00	0.90
126.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.243	0.202	0.000	2.42	7.58
126.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.243	0.202	0.000	0.00	0.27
127.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.264	0.203	0.000	0.00	0.28
127.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.264	0.203	0.000	0.00	1.18
127.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.264	0.203	0.000	1.58	0.63
127.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.264	0.203	0.000	0.00	4.20
127.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.264	0.203	0.000	0.00	0.90
127.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.264	0.203	0.000	2.43	7.58
127.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.264	0.203	0.000	0.00	0.27
128.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.284	0.205	0.000	0.00	0.28
128.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.284	0.205	0.000	0.00	1.18

Pole :	302482			**Code:**	ANSI/TIA-222 Rev G						11/12/2014 9:57:28 AM	
Location :	North Haven CT 1, CT			**Struct Class :**	II							
Height :	150.0 (ft)			**Exposure Category :**	B						**Page:**	121
Base Dia :	37.37 (in)			**Topographic Category :**	1							
Top Dia :	15.00 (in)			**Base Elev :**	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

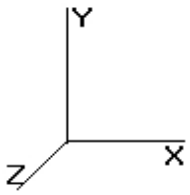
Gust Response Factor : 1.10 — Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

128.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.284	0.205	0.000	1.58	0.63
128.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.284	0.205	0.000	0.00	4.20
128.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.284	0.205	0.000	0.00	0.90
128.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.284	0.205	0.000	2.43	7.58
128.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.284	0.205	0.000	0.00	0.27
129.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.305	0.207	0.000	0.00	0.28
129.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.305	0.207	0.000	0.00	1.18
129.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.305	0.207	0.000	1.59	0.63
129.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.305	0.207	0.000	0.00	4.20
129.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.305	0.207	0.000	0.00	0.90
129.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.305	0.207	0.000	2.44	7.58
129.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.305	0.207	0.000	0.00	0.27
130.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.326	0.208	0.000	0.00	0.28
130.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.326	0.208	0.000	0.00	1.18
130.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.326	0.208	0.000	1.59	0.63
130.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.326	0.208	0.000	0.00	4.20
130.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.326	0.208	0.000	0.00	0.90
130.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.326	0.208	0.000	2.44	7.58
130.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.326	0.208	0.000	0.00	0.27
131.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.346	0.210	0.000	0.00	0.28
131.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.346	0.210	0.000	0.00	1.18
131.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.346	0.210	0.000	1.59	0.63
131.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.346	0.210	0.000	0.00	4.20
131.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.346	0.210	0.000	0.00	0.90
131.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.346	0.210	0.000	2.45	7.58
131.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.346	0.210	0.000	0.00	0.27
132.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.366	0.212	0.000	0.00	0.28
132.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.366	0.212	0.000	0.00	1.18
132.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.366	0.212	0.000	1.60	0.63
132.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.366	0.212	0.000	0.00	4.20
132.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.366	0.212	0.000	0.00	0.90
132.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.366	0.212	0.000	2.45	7.58
132.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.366	0.212	0.000	0.00	0.27
133.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.387	0.214	0.000	0.00	0.28
133.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.387	0.214	0.000	0.00	1.18
133.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.387	0.214	0.000	1.60	0.63
133.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.387	0.214	0.000	0.00	4.20
133.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.387	0.214	0.000	0.00	0.90
133.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.387	0.214	0.000	2.46	7.58
133.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.387	0.214	0.000	0.00	0.27
134.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.407	0.216	0.000	0.00	0.28
134.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.407	0.216	0.000	0.00	1.18
134.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.407	0.216	0.000	1.60	0.63
134.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.407	0.216	0.000	0.00	4.20
134.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.407	0.216	0.000	0.00	0.90
134.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.407	0.216	0.000	2.46	7.58
134.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.407	0.216	0.000	0.00	0.27
135.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.427	0.218	0.000	0.00	0.28
135.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.427	0.218	0.000	0.00	1.18
135.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.427	0.218	0.000	1.61	0.63
135.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.427	0.218	0.000	0.00	4.20
135.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.427	0.218	0.000	0.00	0.90
135.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.427	0.218	0.000	2.47	7.58
135.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.427	0.218	0.000	0.00	0.27
136.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.447	0.220	0.000	0.00	0.28
136.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.447	0.220	0.000	0.00	1.18
136.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.447	0.220	0.000	1.61	0.63

Pole :	302482			Code:	ANSI/TIA-222 Rev G						11/12/2014 9:57:28 AM	
Location :	North Haven CT 1, CT			Struct Class :	II						Page:	122
Height :	150.0 (ft)			Exposure Category :	B							
Base Dia :	37.37 (in)			Topographic Category :	1							
Top Dia :	15.00 (in)			Base Elev :	0.000 (ft)							
Shape :	12 Sides											
Taper :	0.156666 (in/ft)											



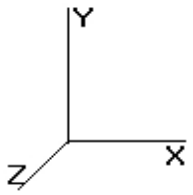
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

136.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.447	0.220	0.000	0.00	4.20
136.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.447	0.220	0.000	0.00	0.90
136.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.447	0.220	0.000	2.47	7.58
136.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.447	0.220	0.000	0.00	0.27
137.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.466	0.222	0.000	0.00	0.28
137.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.466	0.222	0.000	0.00	1.18
137.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.466	0.222	0.000	1.61	0.63
137.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.466	0.222	0.000	0.00	4.20
137.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.466	0.222	0.000	0.00	0.90
137.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.466	0.222	0.000	2.48	7.58
137.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.466	0.222	0.000	0.00	0.27
138.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.486	0.224	0.000	0.00	0.28
138.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.486	0.224	0.000	0.00	1.18
138.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.486	0.224	0.000	1.62	0.63
138.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.486	0.224	0.000	0.00	4.20
138.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.486	0.224	0.000	0.00	0.90
138.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.486	0.224	0.000	2.48	7.58
138.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.486	0.224	0.000	0.00	0.27
139.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.506	0.226	0.000	0.00	0.28
139.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.506	0.226	0.000	0.00	1.18
139.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.506	0.226	0.000	1.62	0.63
139.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.506	0.226	0.000	0.00	4.20
139.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.506	0.226	0.000	0.00	0.90
139.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.506	0.226	0.000	2.49	7.58
139.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.506	0.226	0.000	0.00	0.27
140.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.525	0.228	0.000	0.00	0.28
140.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.525	0.228	0.000	0.00	1.18
140.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.525	0.228	0.000	1.62	0.63
140.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.525	0.228	0.000	0.00	4.20
140.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.525	0.228	0.000	0.00	0.90
140.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.525	0.228	0.000	2.49	7.58
140.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.525	0.228	0.000	0.00	0.27
141.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.545	0.230	0.000	0.00	0.28
141.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.545	0.230	0.000	0.00	1.18
141.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.545	0.230	0.000	1.63	0.63
141.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.545	0.230	0.000	0.00	4.20
141.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.545	0.230	0.000	0.00	0.90
141.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.545	0.230	0.000	2.50	7.58
141.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.545	0.230	0.000	0.00	0.27
142.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.564	0.232	0.000	0.00	0.28
142.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.564	0.232	0.000	0.00	1.18
142.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.564	0.232	0.000	1.63	0.63
142.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.564	0.232	0.000	0.00	4.20
142.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.564	0.232	0.000	0.00	0.90
142.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.564	0.232	0.000	2.50	7.58
142.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.564	0.232	0.000	0.00	0.27
143.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.583	0.235	0.000	0.00	0.28
143.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.583	0.235	0.000	0.00	1.18
143.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.583	0.235	0.000	1.63	0.63
143.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.583	0.235	0.000	0.00	4.20
143.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.583	0.235	0.000	0.00	0.90
143.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.583	0.235	0.000	2.51	7.58
143.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.583	0.235	0.000	0.00	0.27
144.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.602	0.237	0.000	0.00	0.28
144.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.602	0.237	0.000	0.00	1.18
144.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.602	0.237	0.000	1.64	0.63
144.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.602	0.237	0.000	0.00	4.20

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		

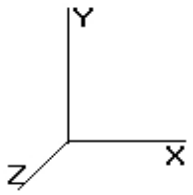


Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **33 Iterations**

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

144.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.602	0.237	0.000	0.00	0.90
144.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.602	0.237	0.000	2.51	7.58
144.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.602	0.237	0.000	0.00	0.27
145.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.621	0.239	0.000	0.00	0.28
145.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.621	0.239	0.000	0.00	1.18
145.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.621	0.239	0.000	1.64	0.63
145.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.621	0.239	0.000	0.00	4.20
145.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.621	0.239	0.000	0.00	0.90
145.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.621	0.239	0.000	2.52	7.58
145.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.621	0.239	0.000	0.00	0.27
146.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.640	0.242	0.000	0.00	0.28
146.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.640	0.242	0.000	0.00	1.18
146.0	(1) 1 1/4" Coax	Yes	1.00	1.200	1.55	0.13	0.16	9.640	0.242	0.000	1.64	0.63
146.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.640	0.242	0.000	0.00	4.20
146.0	(6) 1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.640	0.242	0.000	0.00	0.90
146.0	(1) 3" Conduit	Yes	1.00	1.200	2.38	0.20	0.24	9.640	0.242	0.000	2.52	7.58
146.0	(6) 5/16" Coax	Yes	1.00	0.000	0.00	0.00	0.00	9.640	0.242	0.000	0.00	0.27
147.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.659	0.096	0.000	0.00	0.28
147.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.659	0.096	0.000	0.00	1.18
147.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.659	0.096	0.000	0.00	0.63
147.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.659	0.096	0.000	0.00	4.20
148.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.678	0.097	0.000	0.00	0.28
148.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.678	0.097	0.000	0.00	1.18
148.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.678	0.097	0.000	0.00	0.63
148.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.678	0.097	0.000	0.00	4.20
149.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.696	0.098	0.000	0.00	0.28
149.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.696	0.098	0.000	0.00	1.18
149.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.696	0.098	0.000	0.00	0.63
149.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.696	0.098	0.000	0.00	4.20
150.0	(2) 0.51" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	9.715	0.099	0.000	0.00	0.28
150.0	(2) 0.78" 8 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.715	0.099	0.000	0.00	1.18
150.0	(1) 1 1/4" Coax	Yes	1.00	0.000	1.55	0.13	0.00	9.715	0.099	0.000	0.00	0.63
150.0	(4) 1.24" 4 AWG 6	Yes	1.00	0.000	0.00	0.00	0.00	9.715	0.099	0.000	0.00	4.20
										Totals:	**918.85**	**2,145.79**

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



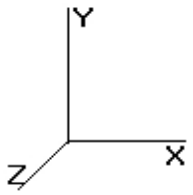
Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **33 Iterations**

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
1.00	21.69	218.51	0.00	0.00
2.00	21.60	217.86	0.00	0.00
3.00	21.51	217.22	0.00	0.00
4.00	21.42	216.57	0.00	0.00
5.00	21.33	215.93	0.00	0.00
6.00	33.19	243.32	0.00	0.00
7.00	33.08	242.67	0.00	0.00
8.00	32.97	242.03	0.00	0.00
9.00	32.86	241.38	0.00	0.00
10.00	32.75	240.74	0.00	0.00
11.00	32.64	240.10	0.00	0.00
12.00	32.53	239.45	0.00	0.00
12.50	16.23	119.49	0.00	0.00
13.00	16.20	119.32	0.00	0.00
14.00	32.31	238.17	0.00	0.00
15.00	32.21	237.52	0.00	0.00
16.00	32.10	236.88	0.00	0.00
17.00	31.99	236.23	0.00	0.00
18.00	31.88	235.59	0.00	0.00
19.00	31.77	234.95	0.00	0.00
20.00	31.66	234.30	0.00	0.00
21.00	31.55	233.66	0.00	0.00
22.00	31.44	233.02	0.00	0.00
23.00	31.33	232.37	0.00	0.00
24.00	31.22	231.73	0.00	0.00
25.00	31.11	231.08	0.00	0.00
26.00	31.00	230.44	0.00	0.00
27.00	30.89	229.80	0.00	0.00
28.00	30.78	229.15	0.00	0.00
29.00	30.67	228.51	0.00	0.00
30.00	30.59	227.87	0.00	0.00
31.00	30.77	227.22	0.00	0.00
31.50	15.42	113.45	0.00	0.00
32.00	15.67	169.10	0.00	0.00
33.00	31.55	337.54	0.00	0.00
34.00	31.70	336.36	0.00	0.00
35.00	31.84	335.18	0.00	0.00
35.67	21.28	222.91	0.00	0.00
36.00	10.63	68.15	0.00	0.00
37.00	32.07	204.29	0.00	0.00
38.00	32.18	203.76	0.00	0.00
39.00	32.28	203.22	0.00	0.00
40.00	32.38	202.68	0.00	0.00
41.00	32.47	202.15	0.00	0.00
42.00	32.55	201.61	0.00	0.00
43.00	32.63	201.07	0.00	0.00
44.00	32.71	200.54	0.00	0.00
45.00	32.78	200.00	0.00	0.00
46.00	32.85	199.46	0.00	0.00



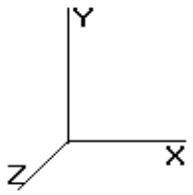
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

Wind Importance Factor : 1.00

47.00	32.91	198.93	0.00	0.00
48.00	32.96	198.39	0.00	0.00
49.00	33.02	197.86	0.00	0.00
50.00	33.06	197.32	0.00	0.00
51.00	33.11	196.78	0.00	0.00
52.00	33.15	196.25	0.00	0.00
53.00	33.19	195.71	0.00	0.00
54.00	33.22	195.17	0.00	0.00
55.00	33.25	194.64	0.00	0.00
56.00	33.28	194.10	0.00	0.00
57.00	33.30	193.56	0.00	0.00
58.00	33.32	193.03	0.00	0.00
59.00	33.33	192.49	0.00	0.00
60.00	33.35	191.95	0.00	0.00
61.00	33.36	191.42	0.00	0.00
62.00	33.37	190.88	0.00	0.00
63.00	33.37	190.35	0.00	0.00
64.00	33.37	189.81	0.00	0.00
65.00	33.37	189.27	0.00	0.00
66.00	33.37	188.74	0.00	0.00
67.00	33.36	188.20	0.00	0.00
68.00	33.35	187.66	0.00	0.00
69.00	33.34	187.13	0.00	0.00
70.00	33.33	186.59	0.00	0.00
70.00	0.01	0.06	0.00	0.00
71.00	33.75	260.49	0.00	0.00
72.00	33.74	259.61	0.00	0.00
73.00	33.72	258.64	0.00	0.00
73.50	16.85	129.05	0.00	0.00
74.00	16.82	83.92	0.00	0.00
75.00	33.67	167.63	0.00	0.00
76.00	33.65	167.20	0.00	0.00
77.00	33.62	166.77	0.00	0.00
78.00	33.59	166.35	0.00	0.00
79.00	33.56	165.92	0.00	0.00
80.00	33.52	165.49	0.00	0.00
81.00	33.49	165.06	0.00	0.00
82.00	33.45	164.63	0.00	0.00
83.00	33.41	164.20	0.00	0.00
84.00	33.36	163.77	0.00	0.00
85.00	33.32	163.34	0.00	0.00
86.00	33.27	162.91	0.00	0.00
86.50	16.61	81.30	0.00	0.00
87.00	16.59	81.19	0.00	0.00
88.00	33.17	162.05	0.00	0.00
89.00	33.12	161.62	0.00	0.00
90.00	33.07	161.20	0.00	0.00
91.00	33.01	160.77	0.00	0.00
92.00	32.96	160.34	0.00	0.00
93.00	32.90	159.91	0.00	0.00
94.00	32.84	159.48	0.00	0.00
95.00	32.78	159.05	0.00	0.00
95.33	10.90	52.90	0.00	0.00
96.00	21.80	61.18	0.00	0.00
97.00	32.65	91.39	0.00	0.00
98.00	32.58	90.96	0.00	0.00
99.00	32.51	90.53	0.00	0.00

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		

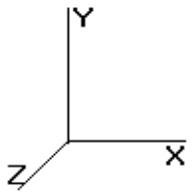


Load Case: **1.0D + 1.0W** **60.00 mph Serviceability** **33 Iterations**

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

100.0		32.44	90.10	0.00	0.00
101.0		32.37	89.68	0.00	0.00
102.0		18.66	89.25	0.00	0.00
103.0		18.58	88.82	0.00	0.00
104.0		18.50	88.39	0.00	0.00
105.0		18.42	87.96	0.00	0.00
106.0		18.34	87.53	0.00	0.00
107.0		18.26	87.10	0.00	0.00
108.0		630.23	1,860.57	0.00	0.00
109.0		18.10	76.40	0.00	0.00
110.0		18.01	75.97	0.00	0.00
110.0		0.01	0.03	0.00	0.00
111.0		17.92	61.31	0.00	0.00
112.0		17.84	61.01	0.00	0.00
113.0		17.75	60.69	0.00	0.00
114.0		17.66	60.37	0.00	0.00
115.0		17.57	60.05	0.00	0.00
116.0		17.48	59.73	0.00	0.00
117.0		17.39	59.40	0.00	0.00
118.0		17.30	59.08	0.00	0.00
119.0		17.20	58.76	0.00	0.00
120.0		17.11	58.44	0.00	0.00
121.0		17.01	58.12	0.00	0.00
122.0		16.92	57.79	0.00	0.00
123.0		16.82	57.47	0.00	0.00
124.0		16.72	57.15	0.00	0.00
125.0		16.62	56.83	0.00	0.00
126.0		23.82	56.51	0.00	0.00
127.0		23.71	56.18	0.00	0.00
128.0		23.60	55.86	0.00	0.00
129.0		23.49	55.54	0.00	0.00
130.0		23.37	55.22	0.00	0.00
131.0		23.26	54.90	0.00	0.00
132.0		23.14	54.58	0.00	0.00
133.0		23.02	54.25	0.00	0.00
134.0		22.90	53.93	0.00	0.00
135.0		22.79	53.61	0.00	0.00
136.0		22.66	53.29	0.00	0.00
137.0		22.54	52.97	0.00	0.00
138.0		22.42	52.64	0.00	0.00
139.0		22.30	52.32	0.00	0.00
140.0		22.17	52.00	0.00	0.00
141.0		22.05	51.68	0.00	0.00
142.0		21.92	51.36	0.00	0.00
143.0		21.80	51.04	0.00	0.00
144.0		21.67	50.71	0.00	0.00
145.0		21.54	50.39	0.00	0.00
146.0		344.02	432.27	0.00	0.00
147.0		14.25	41.00	0.00	0.00
148.0		14.14	40.68	0.00	0.00
149.0		14.02	40.35	0.00	0.00
150.0		1,006.30	3,453.83	0.00	2,225.25
	Totals:	**6,128.71**	**28,924.80**	**0.00**	**2,225.25**

Pole :	302482	Code: ANSI/TIA-222 Rev G	
Location :	North Haven CT 1, CT	Struct Class : II	
Height :	150.0 (ft)	Exposure Category : B	
Base Dia :	37.37 (in)	Topographic Category : 1	
Top Dia :	15.00 (in)	Base Elev : 0.000 (ft)	
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		



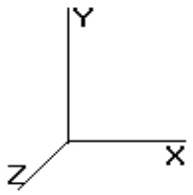
Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00
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	-28.92	-6.13	0.00	-579.04	0.00	579.04	3,133.39	1,566.70	4,775.40	2,358.39	0.00	0.00	0.160
1.00	-28.70	-6.11	0.00	-572.91	0.00	572.91	3,125.01	1,562.51	4,742.26	2,342.02	0.00	-0.01	0.159
2.00	-28.48	-6.10	0.00	-566.80	0.00	566.80	3,116.59	1,558.30	4,709.17	2,325.68	0.01	-0.03	0.158
3.00	-28.27	-6.08	0.00	-560.70	0.00	560.70	3,108.13	1,554.07	4,676.12	2,309.36	0.01	-0.04	0.157
4.00	-28.05	-6.07	0.00	-554.62	0.00	554.62	3,099.63	1,549.81	4,643.13	2,293.07	0.02	-0.05	0.157
5.00	-27.83	-6.05	0.00	-548.55	0.00	548.55	3,091.08	1,545.54	4,610.18	2,276.80	0.04	-0.07	0.156
6.00	-27.59	-6.03	0.00	-542.49	0.00	542.49	3,082.50	1,541.25	4,577.28	2,260.55	0.05	-0.08	0.155
7.00	-27.34	-6.00	0.00	-536.47	0.00	536.47	3,073.87	1,536.93	4,544.44	2,244.33	0.07	-0.09	0.154
8.00	-27.10	-5.97	0.00	-530.47	0.00	530.47	3,065.20	1,532.60	4,511.64	2,228.13	0.09	-0.11	0.153
9.00	-26.86	-5.94	0.00	-524.50	0.00	524.50	3,056.49	1,528.24	4,478.89	2,211.96	0.11	-0.12	0.152
10.00	-26.61	-5.92	0.00	-518.55	0.00	518.55	3,047.73	1,523.87	4,446.20	2,195.81	0.14	-0.13	0.151
11.00	-26.37	-5.89	0.00	-512.63	0.00	512.63	3,038.94	1,519.47	4,413.57	2,179.69	0.17	-0.14	0.150
12.00	-26.13	-5.86	0.00	-506.74	0.00	506.74	3,030.10	1,515.05	4,380.98	2,163.60	0.20	-0.16	0.149
12.50	-26.01	-5.85	0.00	-503.81	0.00	503.81	3,025.67	1,512.83	4,364.71	2,155.57	0.22	-0.16	0.148
12.50	-26.01	-5.85	0.00	-503.81	0.00	503.81	3,025.67	1,512.83	4,364.71	2,155.57	0.22	-0.16	0.148
13.00	-25.89	-5.84	0.00	-500.89	0.00	500.89	3,021.22	1,510.61	4,348.46	2,147.54	0.23	-0.17	0.148
14.00	-25.65	-5.81	0.00	-495.05	0.00	495.05	3,012.30	1,506.15	4,315.98	2,131.50	0.27	-0.18	0.147
15.00	-25.41	-5.78	0.00	-489.24	0.00	489.24	3,003.34	1,501.67	4,283.57	2,115.49	0.31	-0.20	0.146
16.00	-25.18	-5.75	0.00	-483.46	0.00	483.46	2,994.34	1,497.17	4,251.21	2,099.51	0.35	-0.21	0.145
17.00	-24.94	-5.73	0.00	-477.71	0.00	477.71	2,985.30	1,492.65	4,218.92	2,083.56	0.40	-0.22	0.144
18.00	-24.70	-5.70	0.00	-471.98	0.00	471.98	2,976.21	1,488.11	4,186.68	2,067.64	0.45	-0.24	0.143
19.00	-24.47	-5.67	0.00	-466.28	0.00	466.28	2,967.08	1,483.54	4,154.50	2,051.75	0.50	-0.25	0.142
20.00	-24.23	-5.65	0.00	-460.61	0.00	460.61	2,957.91	1,478.96	4,122.38	2,035.89	0.55	-0.26	0.141
21.00	-24.00	-5.62	0.00	-454.96	0.00	454.96	2,948.70	1,474.35	4,090.33	2,020.06	0.61	-0.28	0.140
22.00	-23.76	-5.59	0.00	-449.34	0.00	449.34	2,939.45	1,469.73	4,058.33	2,004.26	0.67	-0.29	0.139
23.00	-23.53	-5.56	0.00	-443.75	0.00	443.75	2,930.16	1,465.08	4,026.41	1,988.49	0.73	-0.30	0.138
24.00	-23.30	-5.54	0.00	-438.19	0.00	438.19	2,920.82	1,460.41	3,994.54	1,972.75	0.79	-0.31	0.137
25.00	-23.06	-5.51	0.00	-432.65	0.00	432.65	2,911.45	1,455.72	3,962.74	1,957.05	0.86	-0.33	0.136
26.00	-22.83	-5.48	0.00	-427.14	0.00	427.14	2,902.03	1,451.01	3,931.01	1,941.38	0.93	-0.34	0.135
27.00	-22.60	-5.46	0.00	-421.66	0.00	421.66	2,892.57	1,446.28	3,899.34	1,925.74	1.00	-0.35	0.134
28.00	-22.37	-5.43	0.00	-416.20	0.00	416.20	2,883.07	1,441.53	3,867.74	1,910.13	1.08	-0.37	0.133
29.00	-22.14	-5.40	0.00	-410.78	0.00	410.78	2,873.52	1,436.76	3,836.21	1,894.56	1.16	-0.38	0.132
30.00	-21.91	-5.37	0.00	-405.38	0.00	405.38	2,863.94	1,431.97	3,804.75	1,879.02	1.24	-0.39	0.131
31.00	-21.68	-5.35	0.00	-400.00	0.00	400.00	2,854.31	1,427.16	3,773.36	1,863.52	1.32	-0.40	0.130
31.50	-21.57	-5.33	0.00	-397.33	0.00	397.33	2,849.48	1,424.74	3,757.68	1,855.78	1.37	-0.41	0.130
32.00	-21.40	-5.32	0.00	-394.66	0.00	394.66	2,844.65	1,422.32	3,742.04	1,848.05	1.41	-0.42	0.127
33.00	-21.06	-5.29	0.00	-389.35	0.00	389.35	2,833.03	1,416.51	3,708.29	1,831.38	1.50	-0.43	0.126
34.00	-20.72	-5.26	0.00	-384.06	0.00	384.06	2,819.08	1,409.54	3,671.66	1,813.30	1.59	-0.44	0.125
35.00	-20.39	-5.23	0.00	-378.80	0.00	378.80	2,805.14	1,402.57	3,635.22	1,795.30	1.68	-0.46	0.125
35.67	-20.17	-5.21	0.00	-375.31	0.00	375.31	2,230.91	1,115.46	2,950.86	1,457.32	1.75	-0.46	0.144
36.00	-20.10	-5.20	0.00	-373.58	0.00	373.58	2,228.70	1,114.35	2,943.10	1,453.48	1.78	-0.47	0.144
37.00	-19.89	-5.17	0.00	-368.38	0.00	368.38	2,222.04	1,111.02	2,919.81	1,441.99	1.88	-0.48	0.142
38.00	-19.69	-5.14	0.00	-363.21	0.00	363.21	2,215.33	1,107.67	2,896.56	1,430.50	1.98	-0.50	0.141
39.00	-19.48	-5.11	0.00	-358.07	0.00	358.07	2,208.58	1,104.29	2,873.35	1,419.04	2.09	-0.51	0.140
40.00	-19.28	-5.08	0.00	-352.95	0.00	352.95	2,201.80	1,100.90	2,850.16	1,407.59	2.20	-0.52	0.138
41.00	-19.08	-5.05	0.00	-347.87	0.00	347.87	2,194.97	1,097.48	2,827.01	1,396.16	2.31	-0.54	0.137
42.00	-18.87	-5.02	0.00	-342.82	0.00	342.82	2,188.09	1,094.05	2,803.90	1,384.74	2.42	-0.55	0.136
43.00	-18.67	-4.99	0.00	-337.80	0.00	337.80	2,181.18	1,090.59	2,780.83	1,373.35	2.54	-0.56	0.135
44.00	-18.47	-4.96	0.00	-332.81	0.00	332.81	2,174.23	1,087.11	2,757.79	1,361.97	2.66	-0.57	0.133
45.00	-18.27	-4.93	0.00	-327.85	0.00	327.85	2,167.23	1,083.61	2,734.79	1,350.61	2.78	-0.59	0.132
46.00	-18.07	-4.90	0.00	-322.92	0.00	322.92	2,160.19	1,080.10	2,711.83	1,339.27	2.90	-0.60	0.131

Pole :	302482	Code:	ANSI/TIA-222 Rev G
Location :	North Haven CT 1, CT	Struct Class :	II
Height :	150.0 (ft)	Exposure Category :	B
Base Dia :	37.37 (in)	Topographic Category :	1
Top Dia :	15.00 (in)	Base Elev :	0.000 (ft)
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		

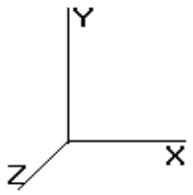


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

47.00	-17.87	-4.87	0.00	-318.02	0.00	318.02	2,153.11	1,076.56	2,688.91	1,327.95	3.03	-0.61	0.129
48.00	-17.67	-4.84	0.00	-313.15	0.00	313.15	2,145.99	1,073.00	2,666.03	1,316.65	3.16	-0.63	0.128
49.00	-17.47	-4.81	0.00	-308.31	0.00	308.31	2,138.83	1,069.41	2,643.19	1,305.37	3.29	-0.64	0.127
50.00	-17.27	-4.77	0.00	-303.51	0.00	303.51	2,131.62	1,065.81	2,620.39	1,294.11	3.43	-0.65	0.125
51.00	-17.08	-4.74	0.00	-298.73	0.00	298.73	2,124.38	1,062.19	2,597.64	1,282.88	3.57	-0.67	0.124
52.00	-16.88	-4.71	0.00	-293.99	0.00	293.99	2,117.09	1,058.55	2,574.93	1,271.66	3.71	-0.68	0.123
53.00	-16.68	-4.68	0.00	-289.28	0.00	289.28	2,109.76	1,054.88	2,552.26	1,260.47	3.85	-0.69	0.121
54.00	-16.49	-4.65	0.00	-284.60	0.00	284.60	2,102.39	1,051.20	2,529.64	1,249.30	4.00	-0.70	0.120
55.00	-16.29	-4.62	0.00	-279.95	0.00	279.95	2,094.98	1,047.49	2,507.07	1,238.15	4.15	-0.72	0.119
56.00	-16.10	-4.58	0.00	-275.33	0.00	275.33	2,087.53	1,043.76	2,484.55	1,227.02	4.30	-0.73	0.117
57.00	-15.90	-4.55	0.00	-270.75	0.00	270.75	2,080.03	1,040.02	2,462.07	1,215.92	4.45	-0.74	0.116
58.00	-15.71	-4.52	0.00	-266.20	0.00	266.20	2,072.49	1,036.25	2,439.64	1,204.85	4.61	-0.75	0.115
59.00	-15.52	-4.49	0.00	-261.68	0.00	261.68	2,064.92	1,032.46	2,417.26	1,193.79	4.77	-0.77	0.113
60.00	-15.32	-4.45	0.00	-257.19	0.00	257.19	2,057.30	1,028.65	2,394.93	1,182.77	4.93	-0.78	0.112
61.00	-15.13	-4.42	0.00	-252.74	0.00	252.74	2,049.63	1,024.82	2,372.65	1,171.76	5.09	-0.79	0.111
62.00	-14.94	-4.39	0.00	-248.32	0.00	248.32	2,041.93	1,020.97	2,350.43	1,160.79	5.26	-0.80	0.109
63.00	-14.75	-4.36	0.00	-243.93	0.00	243.93	2,034.19	1,017.09	2,328.25	1,149.84	5.43	-0.82	0.108
64.00	-14.56	-4.32	0.00	-239.58	0.00	239.58	2,026.40	1,013.20	2,306.13	1,138.91	5.60	-0.83	0.107
65.00	-14.37	-4.29	0.00	-235.25	0.00	235.25	2,018.57	1,009.29	2,284.07	1,128.02	5.78	-0.84	0.105
66.00	-14.18	-4.26	0.00	-230.96	0.00	230.96	2,010.70	1,005.35	2,262.06	1,117.15	5.96	-0.85	0.104
67.00	-13.99	-4.22	0.00	-226.71	0.00	226.71	2,002.79	1,001.40	2,240.11	1,106.30	6.14	-0.86	0.103
68.00	-13.80	-4.19	0.00	-222.49	0.00	222.49	1,994.84	997.42	2,218.21	1,095.49	6.32	-0.88	0.101
69.00	-13.62	-4.16	0.00	-218.30	0.00	218.30	1,986.85	993.42	2,196.37	1,084.71	6.50	-0.89	0.100
70.00	-13.43	-4.12	0.00	-214.14	0.00	214.14	1,978.81	989.40	2,174.59	1,073.95	6.69	-0.90	0.099
70.00	-13.43	-4.12	0.00	-214.14	0.00	214.14	1,978.81	989.40	2,174.58	1,073.95	6.69	-0.90	0.099
71.00	-13.17	-4.09	0.00	-210.02	0.00	210.02	1,970.29	985.14	2,152.38	1,062.98	6.88	-0.91	0.096
72.00	-12.91	-4.05	0.00	-205.93	0.00	205.93	1,958.67	979.33	2,126.92	1,050.41	7.07	-0.92	0.095
73.00	-12.65	-4.02	0.00	-201.88	0.00	201.88	1,947.05	973.52	2,101.61	1,037.91	7.27	-0.93	0.094
73.50	-12.52	-4.00	0.00	-199.87	0.00	199.87	1,462.56	731.28	1,611.85	796.03	7.37	-0.94	0.110
74.00	-12.44	-3.98	0.00	-197.87	0.00	197.87	1,460.05	730.02	1,604.32	792.31	7.46	-0.95	0.109
75.00	-12.27	-3.95	0.00	-193.89	0.00	193.89	1,454.98	727.49	1,589.27	784.88	7.66	-0.96	0.108
76.00	-12.10	-3.91	0.00	-189.94	0.00	189.94	1,449.87	724.94	1,574.24	777.46	7.87	-0.97	0.106
77.00	-11.94	-3.88	0.00	-186.03	0.00	186.03	1,444.73	722.36	1,559.24	770.05	8.07	-0.98	0.104
78.00	-11.77	-3.85	0.00	-182.15	0.00	182.15	1,439.54	719.77	1,544.25	762.65	8.28	-0.99	0.103
79.00	-11.60	-3.81	0.00	-178.30	0.00	178.30	1,434.31	717.15	1,529.29	755.26	8.49	-1.01	0.101
80.00	-11.44	-3.78	0.00	-174.49	0.00	174.49	1,429.03	714.52	1,514.36	747.88	8.70	-1.02	0.099
81.00	-11.27	-3.74	0.00	-170.71	0.00	170.71	1,423.72	711.86	1,499.45	740.52	8.91	-1.03	0.098
82.00	-11.11	-3.71	0.00	-166.97	0.00	166.97	1,418.36	709.18	1,484.56	733.17	9.13	-1.04	0.096
83.00	-10.94	-3.68	0.00	-163.26	0.00	163.26	1,412.96	706.48	1,469.70	725.83	9.35	-1.05	0.094
84.00	-10.78	-3.64	0.00	-159.58	0.00	159.58	1,407.53	703.76	1,454.87	718.51	9.57	-1.06	0.093
85.00	-10.62	-3.61	0.00	-155.94	0.00	155.94	1,402.05	701.02	1,440.07	711.20	9.79	-1.07	0.091
86.00	-10.45	-3.57	0.00	-152.33	0.00	152.33	1,396.52	698.26	1,425.29	703.90	10.02	-1.08	0.089
86.50	-10.37	-3.55	0.00	-150.55	0.00	150.55	1,393.75	696.87	1,417.92	700.26	10.13	-1.09	0.089
86.50	-10.37	-3.55	0.00	-150.55	0.00	150.55	1,393.75	696.87	1,417.92	700.26	10.13	-1.09	0.089
87.00	-10.29	-3.54	0.00	-148.77	0.00	148.77	1,390.96	695.48	1,410.55	696.62	10.25	-1.09	0.088
88.00	-10.13	-3.50	0.00	-145.23	0.00	145.23	1,385.35	692.68	1,395.84	689.35	10.48	-1.11	0.086
89.00	-9.97	-3.47	0.00	-141.73	0.00	141.73	1,379.71	689.85	1,381.15	682.10	10.71	-1.12	0.084
90.00	-9.81	-3.44	0.00	-138.26	0.00	138.26	1,374.02	687.01	1,366.50	674.86	10.95	-1.13	0.083
91.00	-9.64	-3.40	0.00	-134.82	0.00	134.82	1,368.29	684.14	1,351.89	667.65	11.18	-1.14	0.081
92.00	-9.48	-3.37	0.00	-131.42	0.00	131.42	1,362.52	681.26	1,337.30	660.44	11.42	-1.15	0.080
93.00	-9.32	-3.33	0.00	-128.06	0.00	128.06	1,356.70	678.35	1,322.75	653.26	11.66	-1.16	0.078
94.00	-9.17	-3.30	0.00	-124.72	0.00	124.72	1,350.85	675.42	1,308.24	646.09	11.91	-1.17	0.076
95.00	-9.01	-3.26	0.00	-121.43	0.00	121.43	1,344.95	672.48	1,293.77	638.94	12.15	-1.18	0.075
95.33	-8.95	-3.25	0.00	-120.34	0.00	120.34	1,342.98	671.49	1,288.95	636.56	12.24	-1.18	0.074
95.33	-8.95	-3.25	0.00	-120.34	0.00	120.34	1,342.98	671.49	1,288.95	636.56	12.24	-1.18	0.196
96.00	-8.89	-3.23	0.00	-118.17	0.00	118.17	1,339.02	669.51	1,279.33	631.81	12.40	-1.19	0.194
97.00	-8.80	-3.20	0.00	-114.94	0.00	114.94	1,333.04	666.52	1,264.93	624.70	12.65	-1.21	0.191

Pole :	302482	Code:	ANSI/TIA-222 Rev G
Location :	North Haven CT 1, CT	Struct Class :	II
Height :	150.0 (ft)	Exposure Category :	B
Base Dia :	37.37 (in)	Topographic Category :	1
Top Dia :	15.00 (in)	Base Elev :	0.000 (ft)
Shape :	12 Sides		
Taper :	0.156666 (in/ft)		

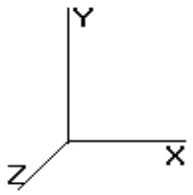


Load Case: 1.0D + 1.0W — 60.00 mph Serviceability — 33 Iterations

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

98.00	-8.71	-3.17	0.00	-111.74	0.00	111.74	1,327.01	663.51	1,250.56	617.61	12.91	-1.24	0.188
99.00	-8.62	-3.14	0.00	-108.57	0.00	108.57	1,320.95	660.48	1,236.24	610.53	13.17	-1.26	0.184
100.00	-8.53	-3.11	0.00	-105.43	0.00	105.43	1,314.85	657.42	1,221.96	603.48	13.44	-1.29	0.181
101.00	-8.44	-3.08	0.00	-102.32	0.00	102.32	1,308.70	654.35	1,207.72	596.45	13.71	-1.31	0.178
102.00	-8.35	-3.06	0.00	-99.25	0.00	99.25	1,302.51	651.26	1,193.52	589.43	13.99	-1.34	0.175
103.00	-8.26	-3.04	0.00	-96.19	0.00	96.19	1,296.29	648.14	1,179.36	582.44	14.27	-1.36	0.172
104.00	-8.17	-3.03	0.00	-93.14	0.00	93.14	1,290.02	645.01	1,165.25	575.47	14.56	-1.39	0.168
105.00	-8.08	-3.01	0.00	-90.12	0.00	90.12	1,283.70	641.85	1,151.18	568.52	14.85	-1.41	0.165
106.00	-7.99	-2.99	0.00	-87.11	0.00	87.11	1,277.35	638.67	1,137.16	561.60	15.15	-1.44	0.161
107.00	-7.90	-2.97	0.00	-84.12	0.00	84.12	1,270.95	635.48	1,123.18	554.70	15.46	-1.46	0.158
108.00	-6.06	-2.30	0.00	-81.14	0.00	81.14	1,264.52	632.26	1,109.25	547.82	15.76	-1.48	0.153
109.00	-5.98	-2.28	0.00	-78.84	0.00	78.84	1,256.36	628.18	1,093.90	540.24	16.08	-1.50	0.151
110.00	-5.91	-2.26	0.00	-76.56	0.00	76.56	1,247.06	623.53	1,077.68	532.23	16.39	-1.53	0.149
110.00	-5.90	-2.26	0.00	-76.56	0.00	76.56	1,247.06	623.53	1,077.67	532.22	16.39	-1.53	0.149
110.00	-5.90	-2.26	0.00	-76.56	0.00	76.56	846.51	423.26	735.89	363.43	16.39	-1.53	0.218
111.00	-5.84	-2.25	0.00	-74.30	0.00	74.30	843.00	421.50	727.35	359.21	16.72	-1.55	0.214
112.00	-5.78	-2.23	0.00	-72.05	0.00	72.05	839.44	419.72	718.80	354.99	17.04	-1.58	0.210
113.00	-5.72	-2.21	0.00	-69.82	0.00	69.82	835.84	417.92	710.28	350.78	17.38	-1.61	0.206
114.00	-5.66	-2.20	0.00	-67.61	0.00	67.61	832.20	416.10	701.76	346.57	17.72	-1.64	0.202
115.00	-5.60	-2.18	0.00	-65.41	0.00	65.41	828.52	414.26	693.25	342.37	18.06	-1.67	0.198
116.00	-5.54	-2.16	0.00	-63.23	0.00	63.23	824.80	412.40	684.76	338.18	18.42	-1.69	0.194
117.00	-5.48	-2.15	0.00	-61.06	0.00	61.06	821.03	410.52	676.28	333.99	18.77	-1.72	0.190
118.00	-5.42	-2.13	0.00	-58.92	0.00	58.92	817.23	408.61	667.82	329.81	19.14	-1.75	0.185
119.00	-5.36	-2.12	0.00	-56.79	0.00	56.79	813.38	406.69	659.38	325.64	19.51	-1.78	0.181
120.00	-5.30	-2.10	0.00	-54.67	0.00	54.67	809.49	404.75	650.95	321.48	19.88	-1.80	0.177
121.00	-5.24	-2.08	0.00	-52.57	0.00	52.57	805.56	402.78	642.54	317.32	20.26	-1.83	0.172
122.00	-5.18	-2.07	0.00	-50.49	0.00	50.49	801.59	400.79	634.14	313.18	20.65	-1.86	0.168
123.00	-5.13	-2.05	0.00	-48.42	0.00	48.42	797.57	398.79	625.77	309.04	21.04	-1.88	0.163
124.00	-5.07	-2.03	0.00	-46.37	0.00	46.37	793.52	396.76	617.41	304.92	21.44	-1.91	0.158
125.00	-5.01	-2.02	0.00	-44.34	0.00	44.34	789.42	394.71	609.08	300.80	21.84	-1.93	0.154
126.00	-4.95	-1.99	0.00	-42.32	0.00	42.32	785.28	392.64	600.77	296.70	22.25	-1.96	0.149
127.00	-4.90	-1.97	0.00	-40.33	0.00	40.33	781.10	390.55	592.48	292.60	22.66	-1.98	0.144
128.00	-4.84	-1.95	0.00	-38.36	0.00	38.36	776.88	388.44	584.21	288.52	23.08	-2.01	0.139
129.00	-4.79	-1.92	0.00	-36.41	0.00	36.41	772.61	386.31	575.97	284.45	23.50	-2.03	0.134
130.00	-4.73	-1.90	0.00	-34.49	0.00	34.49	768.31	384.15	567.75	280.39	23.93	-2.05	0.129
131.00	-4.68	-1.88	0.00	-32.59	0.00	32.59	763.96	381.98	559.56	276.35	24.36	-2.07	0.124
132.00	-4.62	-1.85	0.00	-30.72	0.00	30.72	759.57	379.79	551.40	272.31	24.80	-2.09	0.119
133.00	-4.57	-1.83	0.00	-28.86	0.00	28.86	755.14	377.57	543.26	268.29	25.24	-2.11	0.114
134.00	-4.52	-1.81	0.00	-27.03	0.00	27.03	750.67	375.34	535.15	264.29	25.68	-2.13	0.108
135.00	-4.46	-1.78	0.00	-25.23	0.00	25.23	746.16	373.08	527.07	260.30	26.13	-2.15	0.103
136.00	-4.41	-1.76	0.00	-23.45	0.00	23.45	741.60	370.80	519.02	256.32	26.58	-2.17	0.097
137.00	-4.36	-1.74	0.00	-21.69	0.00	21.69	737.01	368.50	511.00	252.36	27.04	-2.18	0.092
138.00	-4.30	-1.71	0.00	-19.95	0.00	19.95	732.37	366.18	503.01	248.42	27.50	-2.20	0.086
139.00	-4.25	-1.69	0.00	-18.24	0.00	18.24	727.69	363.84	495.05	244.49	27.96	-2.22	0.080
140.00	-4.20	-1.67	0.00	-16.55	0.00	16.55	722.97	361.48	487.13	240.57	28.42	-2.23	0.075
141.00	-4.15	-1.64	0.00	-14.88	0.00	14.88	718.21	359.10	479.24	236.68	28.89	-2.24	0.069
142.00	-4.10	-1.62	0.00	-13.24	0.00	13.24	713.40	356.70	471.38	232.80	29.36	-2.26	0.063
143.00	-4.05	-1.60	0.00	-11.62	0.00	11.62	708.00	354.00	463.20	228.76	29.84	-2.27	0.057
144.00	-4.00	-1.57	0.00	-10.02	0.00	10.02	701.03	350.51	454.07	224.25	30.31	-2.28	0.050
145.00	-3.95	-1.55	0.00	-8.45	0.00	8.45	694.06	347.03	445.03	219.78	30.79	-2.29	0.044
146.00	-3.53	-1.19	0.00	-6.90	0.00	6.90	687.08	343.54	436.08	215.36	31.27	-2.29	0.037
147.00	-3.49	-1.18	0.00	-5.71	0.00	5.71	680.11	340.06	427.22	210.99	31.75	-2.30	0.032
148.00	-3.45	-1.16	0.00	-4.53	0.00	4.53	673.14	336.57	418.46	206.66	32.23	-2.30	0.027
149.00	-3.41	-1.14	0.00	-3.37	0.00	3.37	666.17	333.08	409.78	202.37	32.72	-2.31	0.022
150.00	0.00	-1.01	0.00	-2.23	0.00	2.23	659.20	329.60	401.19	198.13	33.20	-2.31	0.011

Pole :	**302482**	**Code: ANSI/TIA-222 Rev G**	
Location :	**North Haven CT 1, CT**	**Struct Class : II**	
Height :	**150.0 (ft)**	**Exposure Category : B**	
Base Dia :	**37.37 (in)**	**Topographic Category : 1**	
Top Dia :	**15.00 (in)**	**Base Elev : 0.000 (ft)**	
Shape :	**12 Sides**		
Taper :	**0.156666 (in/ft)**		



Analysis Summary

Load Case	Reactions Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Max Usage Elev (ft)	Interaction Ratio
1.2D + 1.6W	32.44	0.00	33.41	0.00	0.00	3124.21	110.00	1.15
0.9D + 1.6W	31.70	0.00	26.65	0.00	0.00	3019.00	110.00	1.11
1.2D + 1.0Di + 1.0Wi	5.87	0.00	57.61	0.00	0.00	611.84	110.00	0.27
1.0D + 1.0W	6.13	0.00	28.92	0.00	0.00	579.04	110.00	0.22

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Upper Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Lower Termination Connectors MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Max Member Pu (kip)	phiPn (kip)	Ratio
0.00	12.5	(4) SOL-#20 All Thre	289.9	10.7	25.3	0.0	12.0	0	0	0.0	12.0	0	0	323.9	319.1	1.015
12.5	86.5	(4) SOL-#20 All Thre	381.4	11.4	25.3	0.0	12.0	0	12	0.0	12.0	0	0	309.2	330.5	0.936
86.5	95.3	(4) SOL-#20 All Thre	381.2	11.4	25.3	166.3	12.0	14	16	0.0	12.0	0	0	194.3	330.5	0.588

Code Rev.	***G***	**Date**	11/10/2014
		Engineer	CEH
		Site #	302482
Moment	3124.2 k-ft	**Carrier**	AT&T Mobility
Axial	33.4 k		

Base/Flange Plate	Plate Type	***Baseplate***	
	Pole Diameter	37.375	in
	Pole Thickness	0.375	in
	Plate Length	44	in
	Plate Thickness	2.5	in
	Plate Fy	60	ksi
	Weld Length	0.25	in
	ϕ_s Resistance	1401.37	k-in
	Applied	915.53	k-in
Stiffeners	#	***0***	

Bolts	#	***8***	
	Bolt Circle	44	in
	(R)adial / (S)quare	S	
	Bolt Gap	6	in
●	Diameter	2.25	in
	Hole Diameter	2.625	in
	Type	A615-75	
	Fy	75	ksi
	Fu	100	ksi
	ϕ_s Resistance	259.82	k
	Applied	261.58	k
Reinforcement	#	***4***	
●	DYW. Circle	44	in
	Offset Angle	22.5	°
	Type	#20	
	Diameter	2.5	in
	Fu	100	ksi
Extra Bolts O	#	***0***	

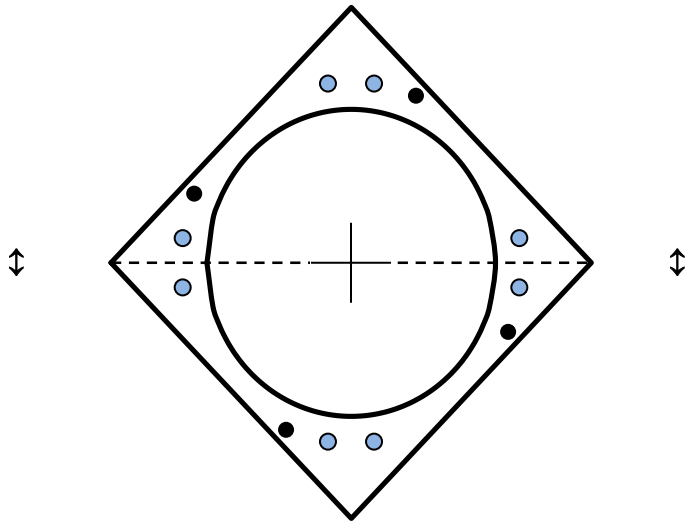


Plate Stress Ratio:

0.65 (Pass)

Bolt Stress Ratio:

1.01 (Acceptable Overstress)

Base/Flange Plate			
	Plate Type	***Flange***	***@ 110.0 ft***
	Pole Diameter	21.267	in
	Pole Thickness	0.1875	in
	Plate Diameter	28.5	in
	Plate Thickness	1	in
	Plate Fy	60	ksi
	Weld Length	0.1875	in
	ϕ_s Resistance	161.56	k-in
	Applied	95.69	k-in

Stiffeners			
	#	***12***	***Show***
	Thickness	0.5	in
	Length	3	in
	Height	4	in
	Chamfer	0.5	in
	Offset Angle	0	°
	Fy	36	ksi

Bolts			
	#	***12***	
	Bolt Circle	25.75	in
	(R)adial / (S)quare	R	
●	Diameter	1	in
	Hole Diameter	1.125	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	ϕ_s Resistance	54.52	k
	Applied	64.16	k

Reinforcement ●		
#	***0***	

Extra Bolts O		
#	***0***	

Code Rev. ***G***

Moment 416.1 k-ft

Axial 5.4 k

Date 11/10/2014

Engineer CEH

Site # 302482

Carrier AT&T Mobility

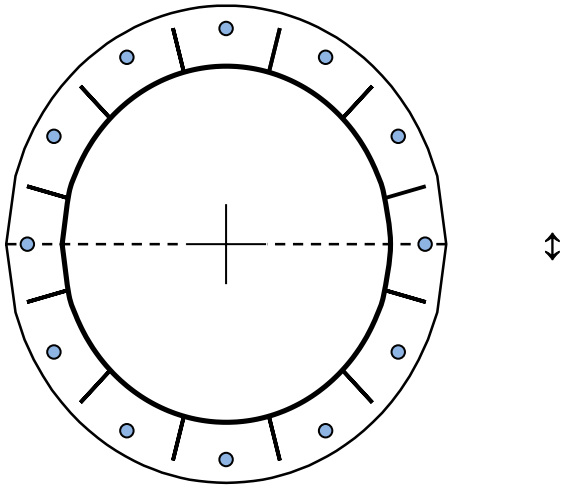


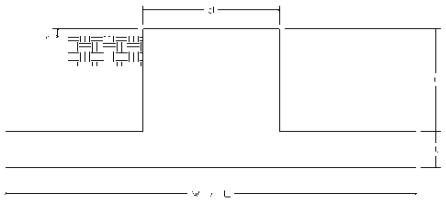
Plate Stress Ratio:

0.59 (Pass)

Bolt Stress Ratio:

1.18 (Fail)

Site Name:	North Haven CT 1, CT	*Program Last Updated:*	*5/13/2014*
Site Number:	302482		
Engineering Number:	60261722		
Engineer:	CEH		
Date:	11/10/14		
Tower Type:	MP		



Design Loads (Factored) - Analysis per TIA-222-G Standards

Design / Analysis / Mapping:	Analysis				
Compression/Leg:	57.6	k	Concrete Strength (f'_c):	3000	psi
Uplift/Leg:	0.0	k	Pad Tension Steel Depth:	32.00	in
Total Shear:	32.4	k	ϕ_{Shear}:	0.75	
Moment:	3124.2	k-ft	$\phi_{Flexure\ /\ Tension}$:	0.90	
Tower + Appurtenance Weight:	54.7	k	$\phi_{Compression:}$	0.65	
Depth to Base of Foundation (l + t - h):	8.00	ft	β:	0.85	
Diameter of Pier (d):	5.50	ft	Bottom Pad Rebar Size #:	10	
Height of Pier above Ground (h):	0.50		# of Bottom Pad Rebar:	36	
Width of Pad (W):	22.00	ft	Pad Bottom Steel Area:	45.72	in^2
Length of Pad (L):	18.00	ft	Pad Steel F_y:	60000	psi
Thickness of Pad (t):	3.00	ft	Top Pad Rebar Size #:	5	
Tower Leg Center to Center:	0.00	ft	# of Top Pad Rebar:	36	
Number of Tower Legs:	1.0	(1 if MP or GT)	Pad Top Steel Area:	11.16	in^2
Tower Center from Mat Center:	0.00	ft	Pier Rebar Size #:	11	
Depth Below Ground Surface to Water Table:	7.00	ft	Pier Steel Area (Single Bar):	1.56	in^2
Unit Weight of Concrete:	150.0	pcf	# of Pier Rebar:	52	
Unit Weight of Soil Above Water Table:	115.0	pcf	Pier Steel F_y:	60000	psi
Unit Weight of Water:	62.4	pcf	Pier Cage Diameter:	58.0	in
Unit Weight of Soil Below Water Table:	65.0	pcf	Rebar Strain Limit:	0.008	
Friction Angle of Uplift:	15.0	Degrees	Steel Elastic Modulus:	29000	ksi
Ultimate Coefficient of Shear Friction:	0.40		Tie Rebar Size #:	4	
Ultimate Compressive Bearing Pressure:	7500.0	psf	Tie Steel Area (Single Bar):	0.20	in^2
Ultimate Passive Pressure on Pad Face:	0.0	psf	Tie Spacing:	12	in
$\phi_{Soil\ and\ Concrete\ Weight}$:	0.9		Tie Steel F_y:	60000	psi
ϕ_{Soil}:	0.75				

Overturning Moment Usage

Design OTM:	3399.6	k-ft
OTM Resistance:	3867.3	k-ft
Design OTM / OTM Resistance:	0.88	Result: OK

Soil Bearing Pressure Usage

Net Bearing Pressure:	5339	psf
Factored Nominal Bearing Pressure:	5625	psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.95	Result: OK
Load Direction Controling Design Bearing Pressure:	Diagonal to Pad Edge	

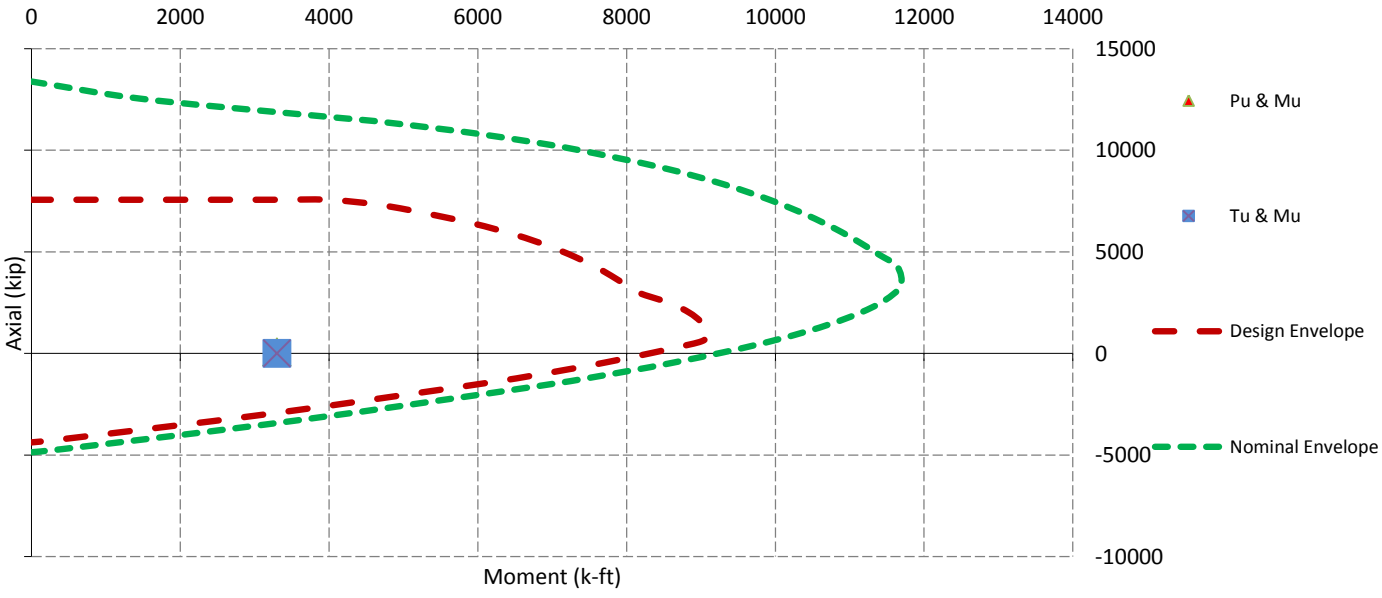
Sliding Factor of Safety

Total Factored Sliding Resistance:	129.8	k
Sliding Design / Sliding Resistance:	0.25	Result: OK

One Way Shear, Flexual Capacity, and Punching Shear

Factored One Way Shear (V_u):	175.7	k
One Way Shear Capacity (ϕV_c):	461.3	k - ACI11.3.1.1
V_u / ϕV_c:	0.38	Result: OK
Load Direction Controling Shear Capacity:	Diagonal to Pad Edge	
Lower Steel Pad Factored Moment (M_u):	1216.3	k-ft
Lower Steel Pad Moment Capacity (ϕM_n):	6227.4	k-ft - ACI10.3
M_u / ϕM_n:	0.20	Result: OK
Load Direction Controling Flexural Capacity:	Parallel to Pad Edge	
Upper Steel Pad Factored Moment (M_u):	661.4	k-ft
Upper Steel Pad Moment Capacity (ϕM_n):	1585.8	k-ft
M_u / ϕM_n:	0.42	Result: OK
Lower Pad Flexural Reinforcement Ratio:	0.0054	OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Upper Pad Flexural Reinforcement Ratio:	0.0013	OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Lower Pad Reinforcement Spacing:	7	in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Upper Pad Reinforcement Spacing:	7	in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Factored Punching Shear (V_u):	0.0	k
Nominal Punching Shear Capacity ($\phi_c V_n$):	1618.9	k - ACI11.12.2.1
V_u / ϕV_c:	0.00	Result: OK
Factored Moment in Pier (M_u):	3302.4	k-ft
Pier Moment Capacity (ϕM_n):	10352.3	k-ft
M_u / ϕM_n:	0.32	Result: OK
Factored Shear in Pier (V_u):	32.4	k
Pier Shear Capacity (ϕV_n):	283.4	k
V_u / ϕV_c:	0.11	Result: OK
Pier Shear Reinforcement Ratio:	0.0006	No Ties Necessary for Shear - ACI11.5.6.1
Factored Tension in Pier (T_u):	0.0	k
Pier Tension Capacity (ϕT_n):	4380.5	k
T_u / ϕT_n:	0.00	Result: OK
Factored Compression in Pier (P_u):	57.6	k
Pier Compression Capacity (ϕP_n):	4428.9	k - ACI10.3.6.2
P_u / ϕP_n:	0.01	Result: OK
Pier Compression Reinforcement Ratio:	0.024	OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4
$M_u/\phi_B M_n + T_u/\phi_T T_n$:	0.32	Result: OK

Nominal and Design Moment Capacity and Factored Design Loads



PROJECT INFORMATION

SCOPE OF WORK:
- REMOVE ALL TOWER TOP EQUIPMENT & REPLACE SECTOR FRAMES (COMMSCOPE PART #MTC3607)
- NEW AT&T ANTENNAS: (2) ANTENNAS PER SECTOR WITH (3) SECTORS, FOR A TOTAL OF (6) NEW ANTENNAS; (3) EXISTING UMTS ANTENNAS TO BE RE-USED (1 PER SECTOR)
- NEW AT&T RRUs: (4) RRUs PER SECTOR WITH (3) SECTORS, FOR A TOTAL OF (12) NEW RRUs.
- (1) NEW A2 MODULES PER SECTOR WITH (3) SECTORS, FOR A TOTAL OF (3) A2 MODULES.
- EXISTING RRUs: (1) RRUs PER SECTOR TO BE REUSED FOR A TOTAL OF (3) EXISTING RRUs.
- (2) NEW AT&T DC6 SURGE SUPPRESSORS.
- (1) EXISTING DC6 SURGE SUPPRESSOR TO BE REUSED.
- (2) NEW FIBER TRUNKS & (4) NEW DC TRUNKS.
- NEW POWER PLANT
- NEW LTE RBS-6601 & DC-DC CONVERTER INSTALLED IN EXISTING LTE RACK

SITE ADDRESS: 12 DWIGHT STREET
NORTH HAVEN, CT 06473

LATITUDE: 41.420798 41° 25' 14.87"N
LONGITUDE: -72.848805 72° 50' 55.69"W

USID: 61156

TOWER OWNER: AMERICAN TOWER CORPORATION
116 HUNTINGTON AVE., 11TH FLOOR
BOSTON, MA 02116

TYPE OF SITE: MONOPOLE/INDOOR EQUIPMENT

MONOPOLE HEIGHT: 154'-0"±
RAD CENTER: 153'-0"±

CURRENT USE: UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY
PROPOSED USE: UNMANNED WIRELESS TELECOMMUNICATIONS FACILITY

at&t MOBILITY

FA CODE: 10034972
SITE NUMBER: CT2012
SITE NAME:
NORTH HAVEN - DWIGHT STREET

PROJECT TEAM

CLIENT REPRESENTATIVE
COMPANY: EMPIRE TELECOM
ADDRESS: 16 ESQUIRE ROAD
BILLERICA, MA 01821
CONTACT: DAVID COOPER
PHONE: 617-639-4908
EMAIL: dcooper@empiretelecomm.com

SITE ACQUISITION:
COMPANY: VERTICAL DEVELOPMENT, LLC
ADDRESS: 7 SYCAMORE WAY
BRANFORD, CT 06405
CONTACT: DAVID BASS
PHONE: 203-826-5857
EMAIL: dbass@verticaldevelopmentllc.com

ZONING:
COMPANY: VERTICAL DEVELOPMENT, LLC
ADDRESS: 7 SYCAMORE WAY
BRANFORD, CT 06405
CONTACT: DAVID BASS
PHONE: 203-826-5857
EMAIL: dbass@verticaldevelopmentllc.com

ENGINEERING:
COMPANY: COM-EX CONSULTANTS, LLC
ADDRESS: 4 SECOND AVENUE
SUITE 204
DENVILLE, NJ 07834
CONTACT: NICHOLAS D. BARILE, P.E.
PHONE: 862-209-4300
EMAIL: nbarile@comexconsultants.com

RF ENGINEER:
COMPANY: AT&T MOBILITY - NEW ENGLAND
ADDRESS: 550 COCHITUATE ROAD
SUITE 550 13 & 14
FRAMINGHAM, MA 01701
CONTACT: CAMERON SYME
PHONE: 508-596-7146
EMAIL: cs6970@att.com

CONSTRUCTION MANAGEMENT:
COMPANY: EMPIRE TELECOM
ADDRESS: 16 ESQUIRE ROAD
BILLERICA, MA 01821
CONTACT: GRZEGORZ "GREG" DORMAN
PHONE: 484-683-1750
EMAIL: gdorman@empiretelecomm.com

DRAWING INDEX

		REV.
T-1	TITLE SHEET	0
GN-1	GROUNDING & GENERAL NOTES	0
A-1	COMPOUND LAYOUTS	0
A-2	EQUIPMENT LAYOUTS	0
A-3	ANTENNA LAYOUTS & ELEVATIONS	0
A-4	DETAILS	0
A-5	ANTENNA MOUNTING DETAILS	0
G-1	GROUNDING, ONE-LINE DIAGRAM & DETAILS	0

ATC SITE ID: NORTH HAVEN CT1
SITE NAME: 302482

VICINITY MAP

1. HEAD WEST ON COCHITUATE RD TOWARD BURR ST (0.3 MI). 2. TURN LEFT ONTO SHOPPERS WORLD DR (230 FT). 3. MAKE A U-TURN AT RING RD (138 FT). 4. TAKE THE 1ST RIGHT ONTO COCHITUATE RD (0.3 MI). 5. TAKE THE RAMP TO I-90 E/MASS PIKE W/SPRINGFIELD/BOSTON (0.6 MI) 6. KEEP LEFT AT THE FORK, FOLLOW SIGNS FOR INTERSTATE 90 W/MASSACHUSETTS TURNPIKE/WORCHESTER/SPRINGFIELD AND MERGE ONTO I-90 W/MASSACHUSETTS TURNPIKE (38.3 MI). 7. TAKE EXIT 9 TO MERGE ONTO I-84 TOWARD US-20/HARTFORD/NEW YORK CITY (41.7 MI). 8. KEEP LEFT TO CONTINUE ON CT-15 S, FOLLOW SIGNS FOR I-91 S/CHARTER OAK BRIDGE/N.Y. CITY (1.1 MI). 9. CONTINUE ONTO CT-15 S/US-5 S (0.8 MI). 10. TAKE EXIT 86 TO MERGE ONTO I-91 S TOWARD NEW HAVEN/NEW YORK CITY (25.7 MI). 11. TAKE EXIT 13 TOWARD US-5/WALLINGFORD/NEW HAVEN (0.2 MI). 12. MERGE ONTO WHARTON BROOK CON (0.6 MI). 13. TURN LEFT ONTO S COLONY RD (430 FT). 14. CONTINUE ONTO WASHINGTON AVE (0.7 MI). 15. TURN RIGHT ONTO DEFCO PARK RD (0.3 MI). 16. TAKE THE 1ST RIGHT ONTO DODGE AVE (0.2 MI). 17. TAKE THE 1ST LEFT ONTO DWIGHT ST (0.2 MI)

GENERAL NOTES

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY, AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.

3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CONNECTICUT ONE CALL SYSTEM, INC. STOP · CALL BEFORE YOU DIG! 1-800-922-4455

CONNECTICUT LAW REQUIRES
TWO WORKING DAYS NOTICE PRIOR TO
ANY EARTH MOVING ACTIVITIES BY
CALLING 800-922-4455 OR DIAL 811

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN, ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AMD MAY IMPOSE CHANGES OR SITE MODIFICATIONS.

DISCIPLINE:	NAME:	DATE:
SITE ACQUISITION:		
CONSTRUCTION MANAGER:		
AT&T PROJECT MANAGER:		

COM-EX Consultants
4 SECOND AVENUE
SUITE 204
DENVILLE, NJ 07834
PHONE: 862.209.4300
FAX: 862.209.4301

EMPIRE telecom
16 ESQUIRE ROAD
BILLERICA, MA 01821

SITE NUMBER: CT2012
SITE NAME: NORTH HAVEN - DWIGHT ST.
12 DWIGHT STREET
NORTH HAVEN, CT 06473
NEW HAVEN COUNTY

at&t MOBILITY
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	03/30/15	INITIAL SUBMISSION	CJT	NDB	NDB

SCALE: AS SHOWN | DESIGNED BY: CJT | DRAWN BY: CJT

SEAL: STATE OF CONNECTICUT · NICHOLAS D. BARILE · No. 28643 · LICENSED PROFESSIONAL ENGINEER
03/30/15

AT&T - CSOF.V2

DRAWING TITLE: TITLE SHEET

JOB NUMBER	DRAWING NUMBER	REV
14002-EMP	T-1	0

GROUNDING NOTES:

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.

2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH 25471-000-3PS-EG00-0001, DESIGN & TESTING OF FACILITY GROUNDING FOR CELL SITES.

4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.

6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.

9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

11. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

12. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

13. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222. FOR TOWERS BEING BUILT TO REV-G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2/0 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM EIGHT FEET (8') TO TEN FEET (10').

14. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE ½" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID TINNED COPPER GROUND WIRE, PER NEC 250.50.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   CONTRACTOR – EMPIRE TELECOM
   SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
   OWNER – AT&T MOBILITY
   OEM – ORIGINAL EQUIPMENT MANUFACTURER

2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.

3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.

5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.

8. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR

9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

10. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OFF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

12. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

13. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.

14. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy=36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.

15. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 25741-000-3APS-A00Z-00002, "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."

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

17. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.

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

19. SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
    - INTERNATIONAL BUILDING CODE: IBC 2009 WITH LOCAL & COUNTY AMENDMENTS
    - NATIONAL ELECTRICAL CODE: NEC 2011 WITH LOCAL & COUNTY AMENDMENTS
    - FIRE/LIFE SAFETY CODE: NFPA-101 2009 WITH LOCAL & COUNTY AMENDMENTS

20. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
    - AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
    - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION
    - AMERICAN SOCIETY OF TESTING OF MATERIALS, ASTM
    - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (ANSI/TIA-222-G-1), STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
    - TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
    - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OSHA
    - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVELY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT
    - TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

21. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

COM-EX Consultants
4 SECOND AVENUE
SUITE 204
DENVILLE, NJ 07834
PHONE: 862.209.4300
FAX: 862.209.4301

EMPIRE telecom
16 ESQUIRE ROAD
BILLERICA, MA 01821

SITE NUMBER: CT2012
SITE NAME: NORTH HAVEN - DWIGHT ST.

12 DWIGHT STREET
NORTH HAVEN, CT 06473
NEW HAVEN COUNTY

at&t MOBILITY
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	03/30/15	INITIAL SUBMISSION	CJT	NDB	NDB

SCALE: AS SHOWN | DESIGNED BY: CJT | DRAWN BY: CJT

SEAL: STATE OF CONNECTICUT · NICHOLAS E. BARBA · No. 28643 · LICENSED PROFESSIONAL ENGINEER
03/30/15

AT&T - CSOF.V2

DRAWING TITLE:
GROUNDING NOTES & GENERAL NOTES

JOB NUMBER	DRAWING NUMBER	REV
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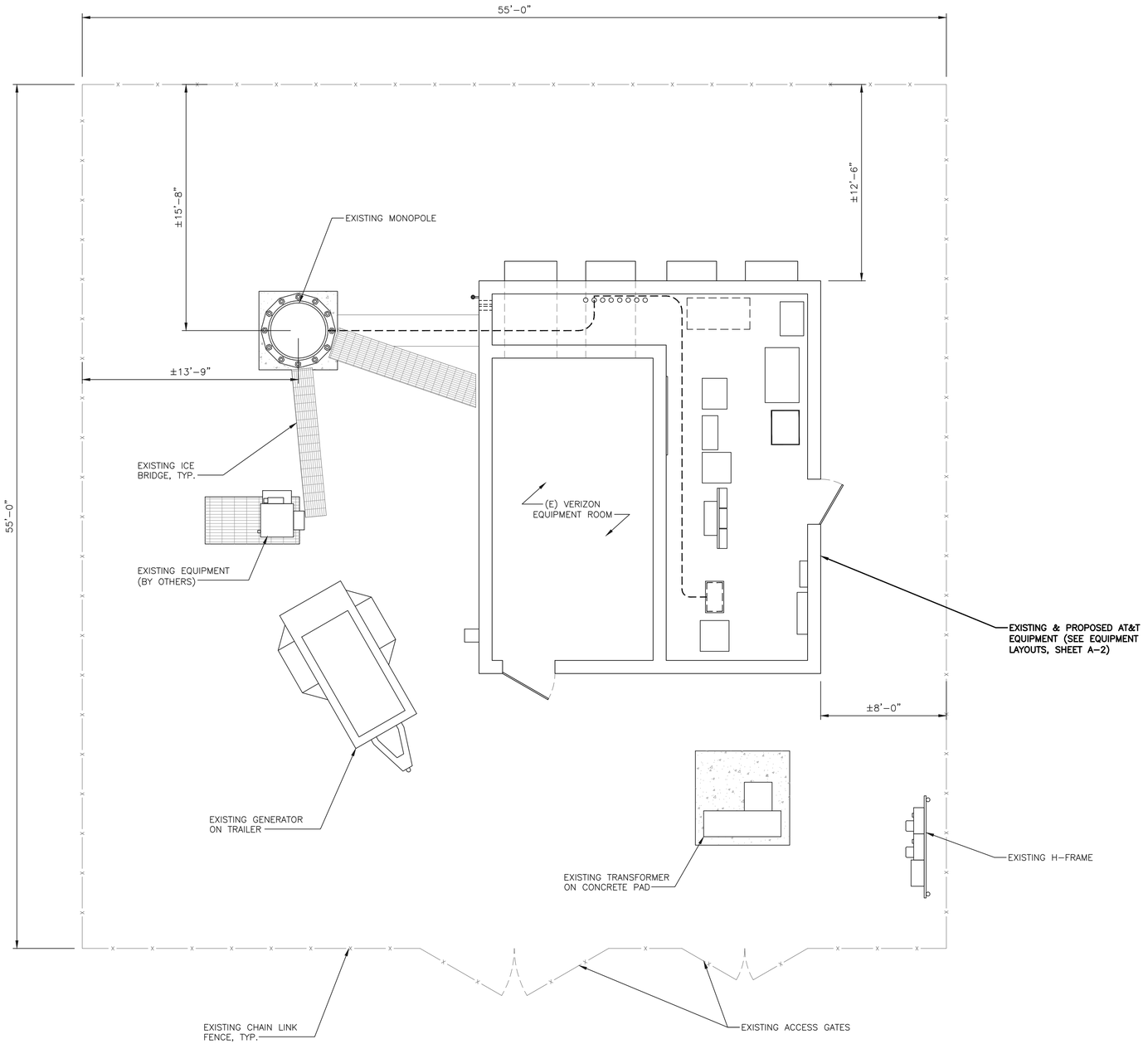

COMPOUND LAYOUT

SCALE: 1" = 4'-0"

4 0 2 4 8 16

(IN FEET)
1/4 Inch = 1 Foot

13.81° W

NORTH

COM-EX Consultants
4 SECOND AVENUE
SUITE 204
DENVILLE, NJ 07834
PHONE: 862.209.4300
FAX: 862.209.4301

EMPIRE telecom
16 ESQUIRE ROAD
BILLERICA, MA 01821

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at&t MOBILITY
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	03/30/15	INITIAL SUBMISSION	CJT	NDB	NDB

SCALE: AS SHOWN | DESIGNED BY: CJT | DRAWN BY: CJT

SEAL: STATE OF CONNECTICUT · NICHOLAS D. BARTH · No. 29645 · LICENSED PROFESSIONAL ENGINEER
03/30/15

AT&T - CSOF.V2

DRAWING TITLE: COMPOUND LAYOUT

JOB NUMBER	DRAWING NUMBER	REV
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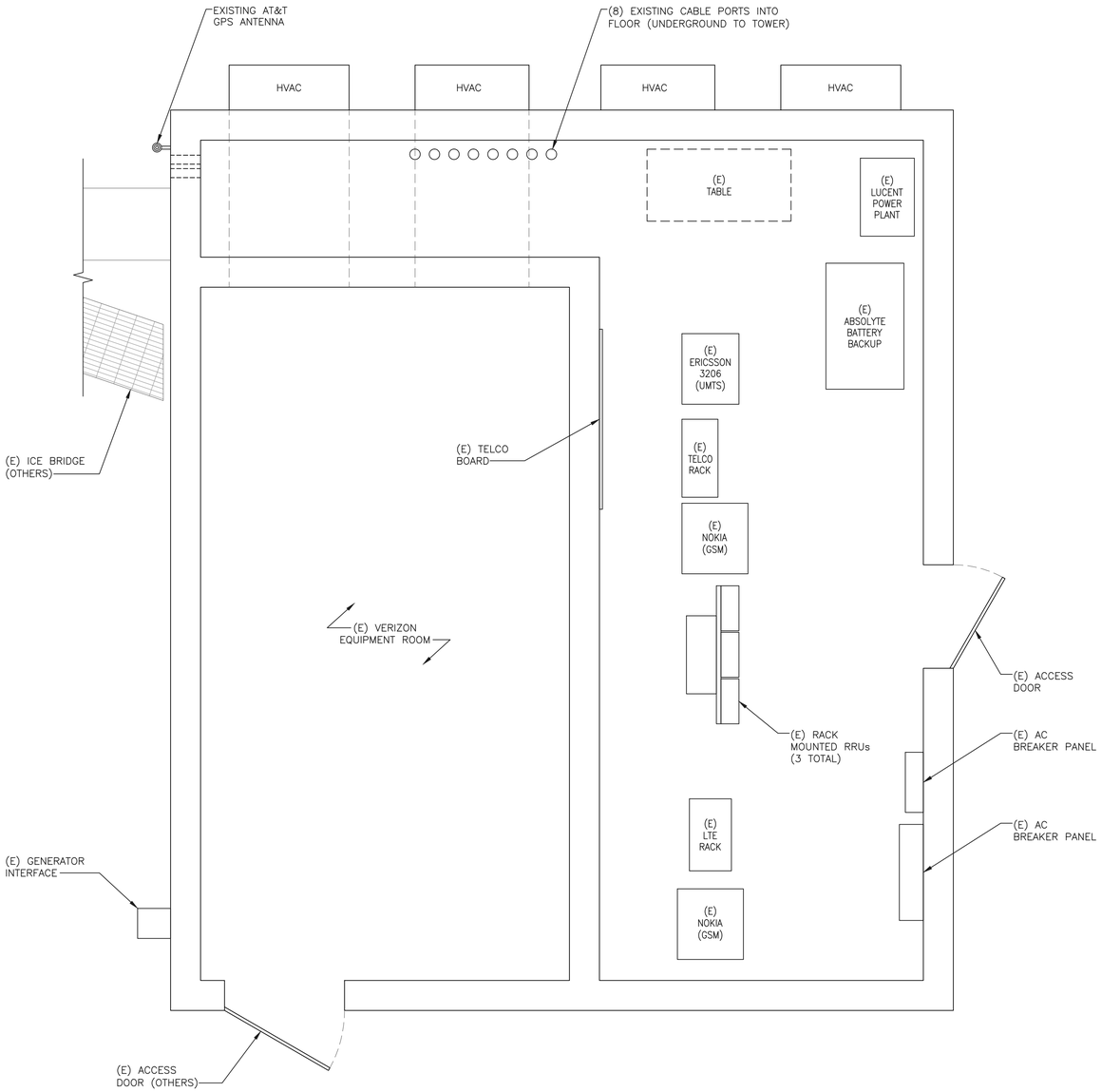


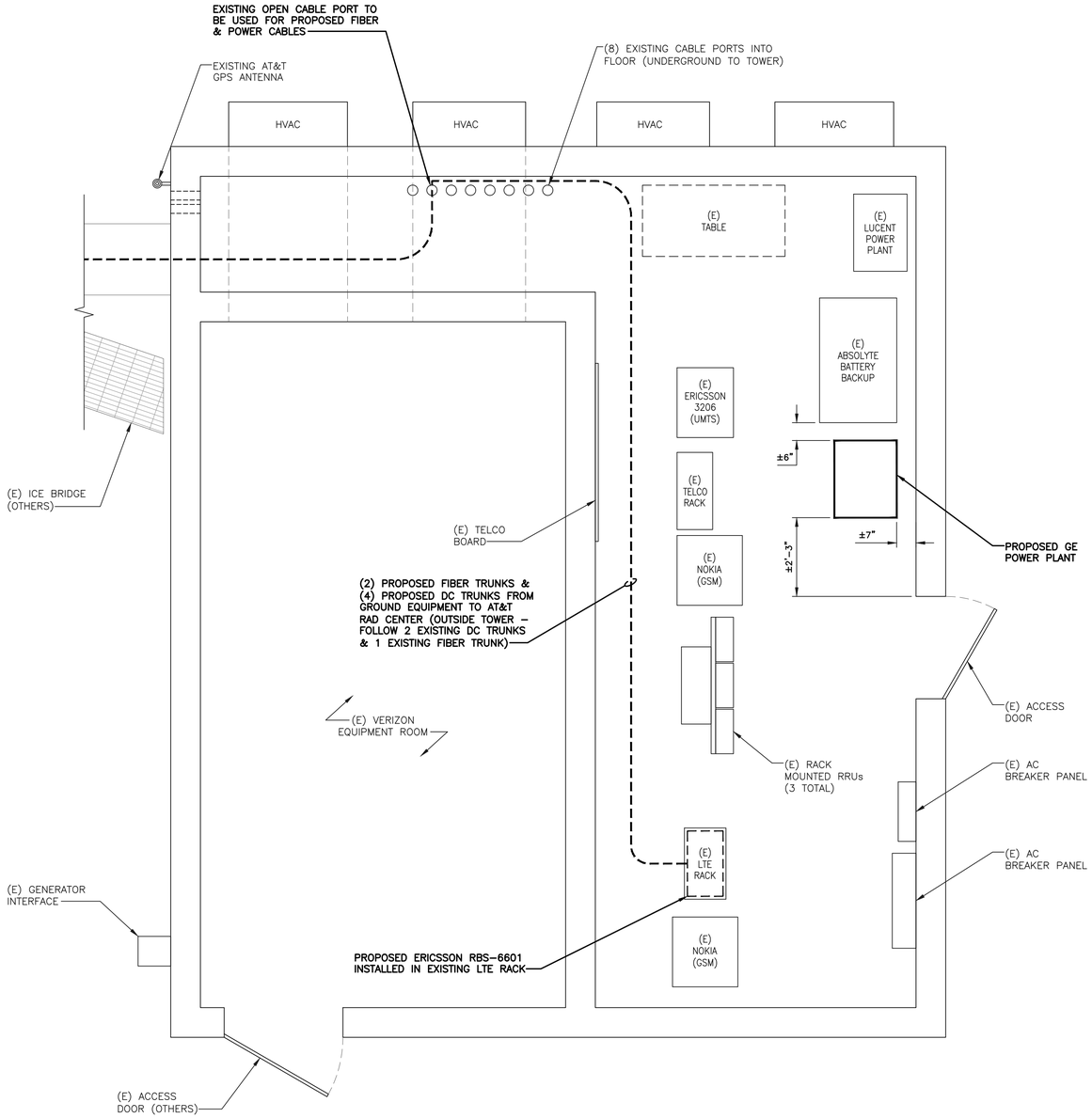
EXISTING EQUIPMENT LAYOUT

SCALE: 1" = 2'-0"

2 0 1 2 4 8

(IN FEET)

1/2 Inch = 1 Foot



PROPOSED EQUIPMENT LAYOUT

SCALE: 1" = 2'-0"

2 0 1 2 4 8

(IN FEET)

1/2 Inch = 1 Foot

COM-EX Consultants
4 SECOND AVENUE
SUITE 204
DENVILLE, NJ 07834
PHONE: 862.209.4300
FAX: 862.209.4301

EMPIRE telecom
16 ESQUIRE ROAD
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SITE NUMBER: CT2012
SITE NAME: NORTH HAVEN - DWIGHT ST.

12 DWIGHT STREET
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NEW HAVEN COUNTY

at&t MOBILITY
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	03/30/15	INITIAL SUBMISSION	CJT	NDB	NDB

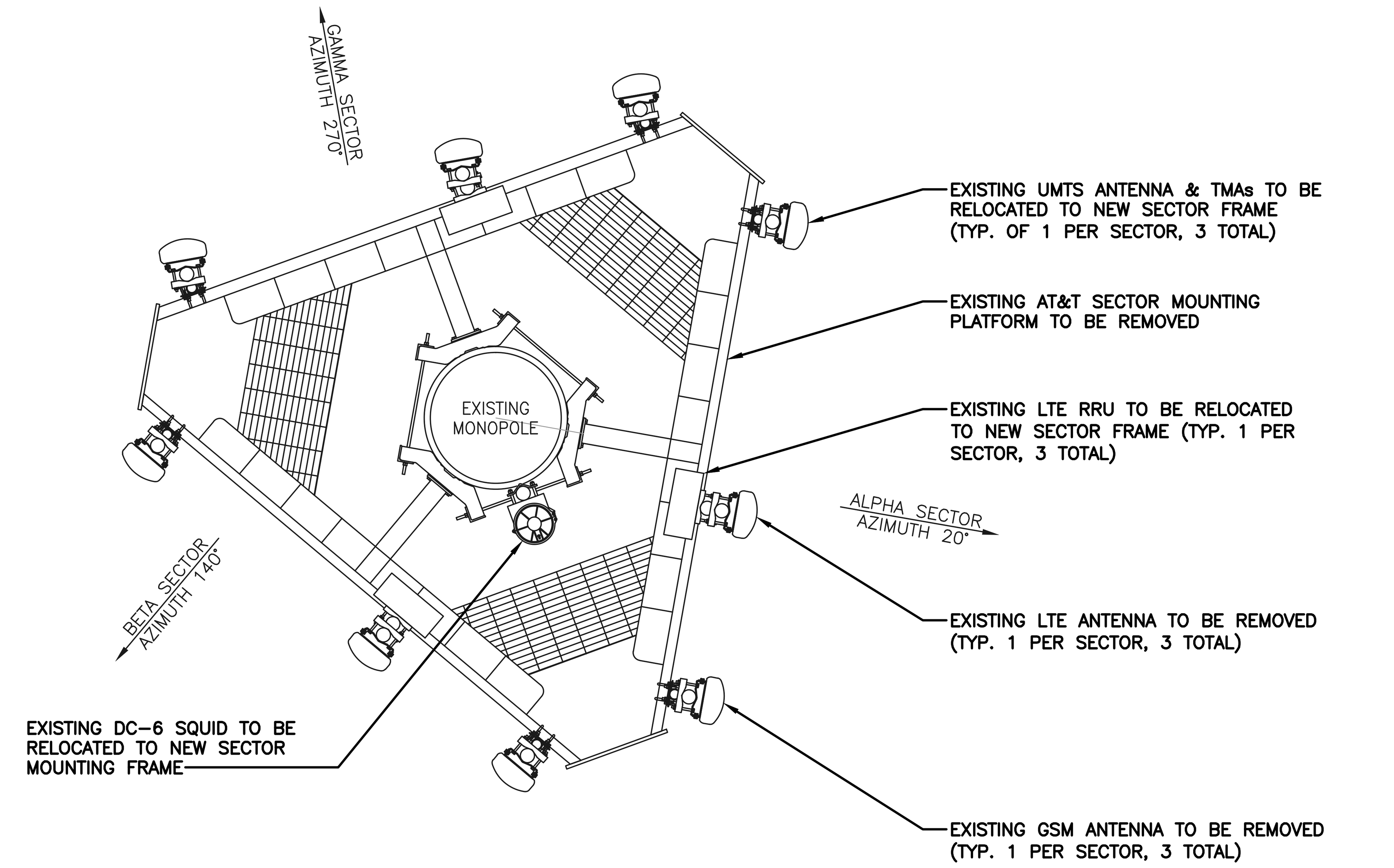
SCALE: AS SHOWN | DESIGNED BY: CJT | DRAWN BY: CJT

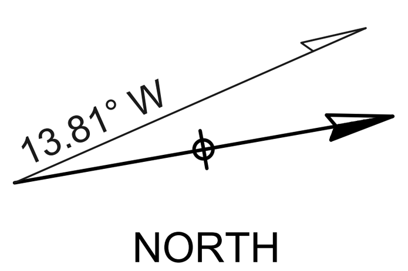
SEAL: STATE OF CONNECTICUT · DOUGLAS G. BASS · No. 23643 · LICENSED PROFESSIONAL ENGINEER
03/30/15

AT&T - CSOF.V2

DRAWING TITLE: EQUIPMENT LAYOUTS

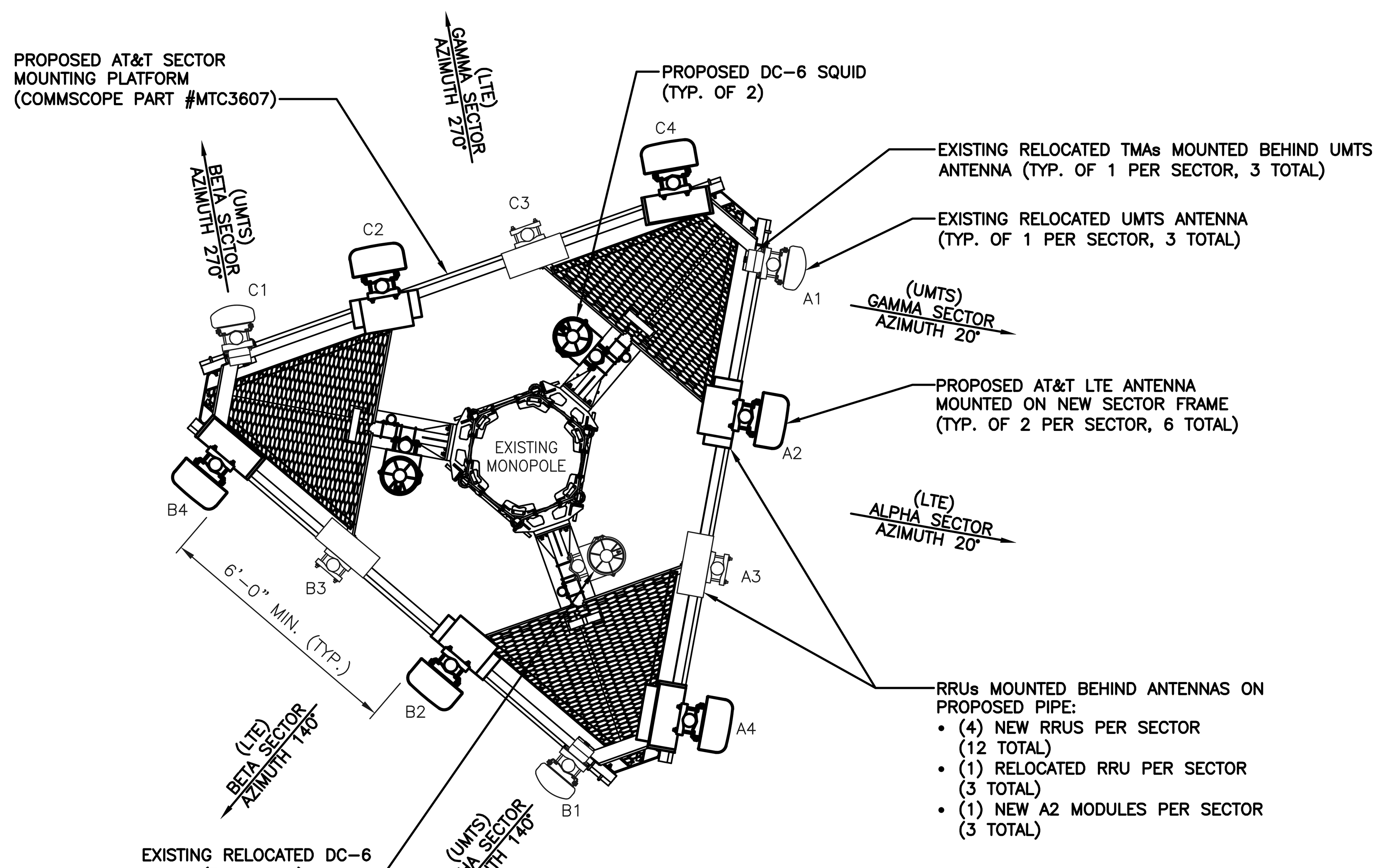
JOB NUMBER	DRAWING NUMBER	REV.
14002-EMP	A-2	0



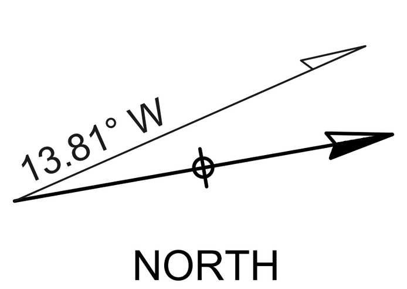


EXISTING ANTENNA LAYOUT

SCALE: N.T.S.

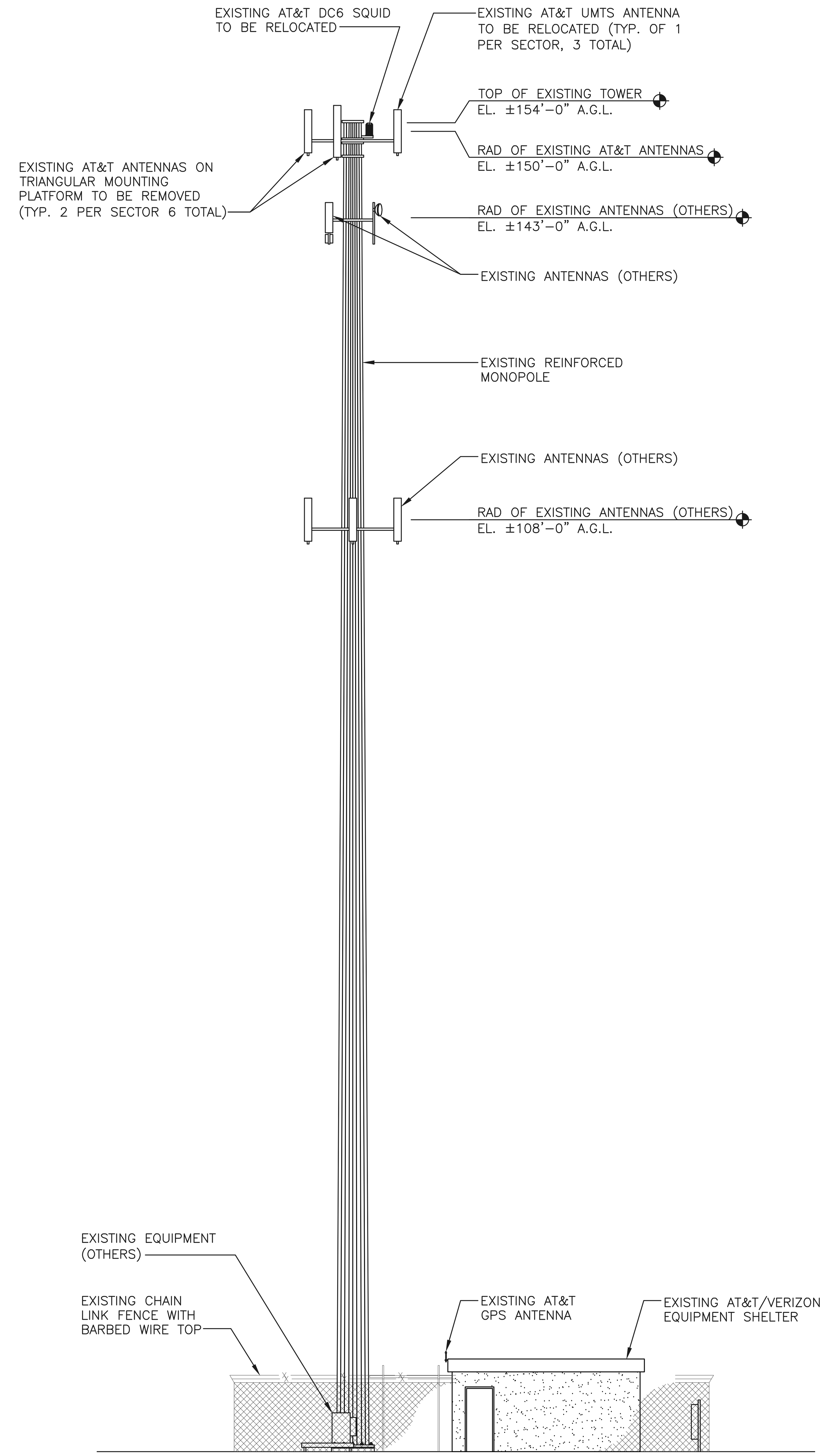


MINIMUM SEPARATION OF 6'-0" TO BE MAINTAINED BETWEEN ALL PROPOSED AT&T LTE ANTENNAS



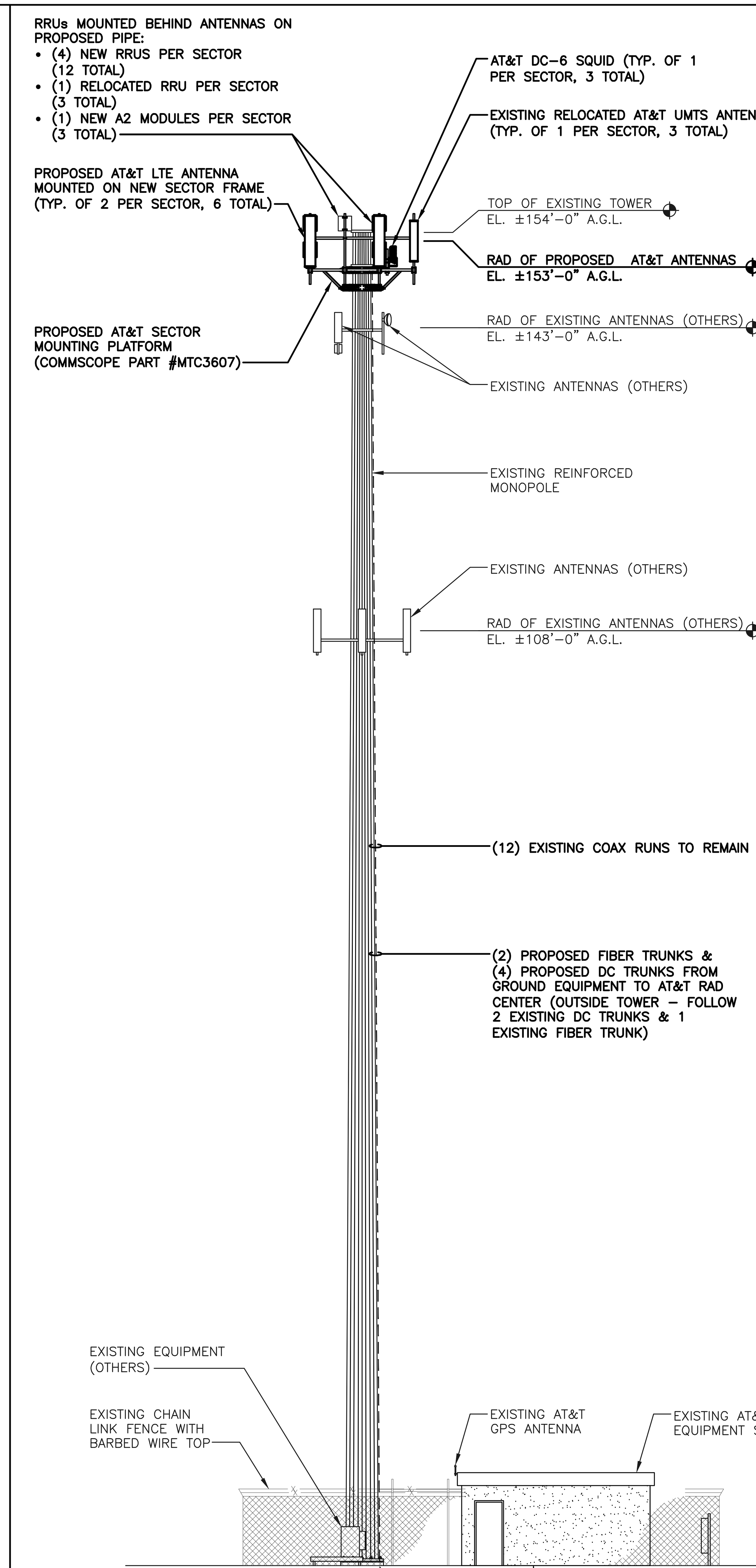
PROPOSED ANTENNA LAYOUT

SCALE: N.T.S.



EXISTING TOWER ELEVATION

SCALE: NTS



PROPOSED TOWER ELEVATION

SCALE: NTS

PROJECT OWNER IS RESPONSIBLE FOR PROVIDING A STRUCTURAL STABILITY ANALYSIS TO DETERMINE THE CAPACITY AND SUITABILITY OF THE EXISTING ANTENNA SUPPORT STRUCTURE TO SAFELY CARRY ALL ADDITIONAL LOADS IMPOSED BY THE PROPOSED EQUIPMENT AS SHOWN HEREIN. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY REQUIRED STRUCTURAL MODIFICATIONS INTO THEIR SCOPE OF WORK.

COM-EX Consultants
4 SECOND AVENUE
SUITE 204
DENVILLE, NJ 07834
PHONE: 862.209.4300
FAX: 862.209.4301

EMPIRE telecom
16 ESQUIRE ROAD
BILLERICA, MA 01821

SITE NUMBER: CT2012
SITE NAME: NORTH HAVEN - DWIGHT ST.

12 DWIGHT STREET
NORTH HAVEN, CT 06473
NEW HAVEN COUNTY

at&t MOBILITY
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	03/30/15	INITIAL SUBMISSION	CJT	NDB	NDB

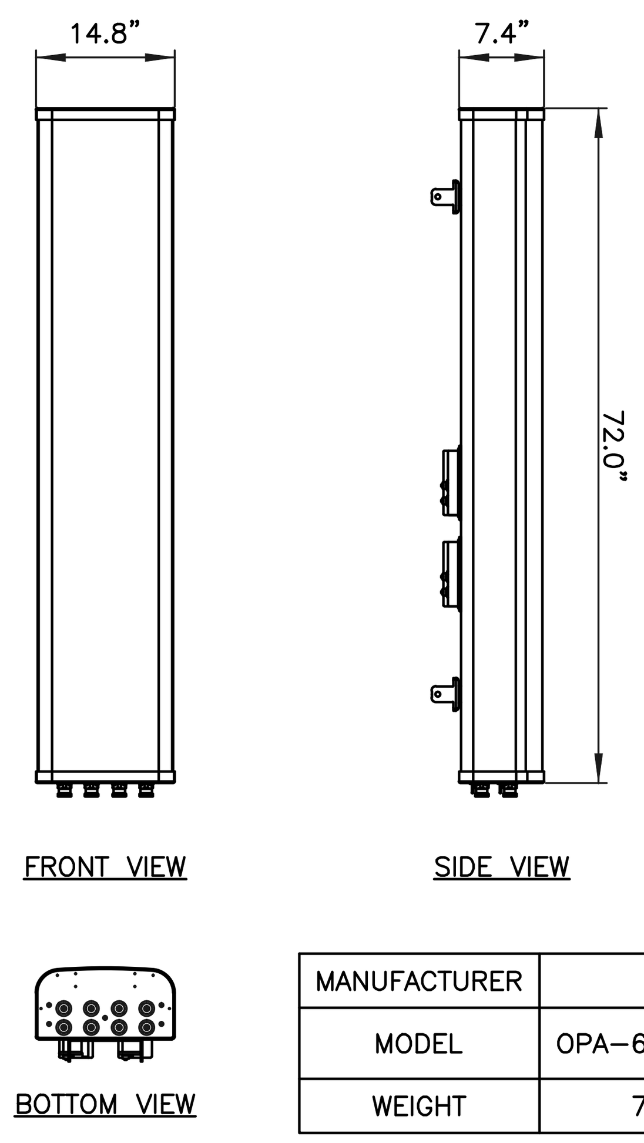
SCALE: AS SHOWN | DESIGNED BY: CJT | DRAWN BY: CJT

SEAL: STATE OF CONNECTICUT NICHOLAS D. BARILE No. 28643 LICENSED PROFESSIONAL ENGINEER
[illegible]
03/30/15

AT&T - CSOF.V2

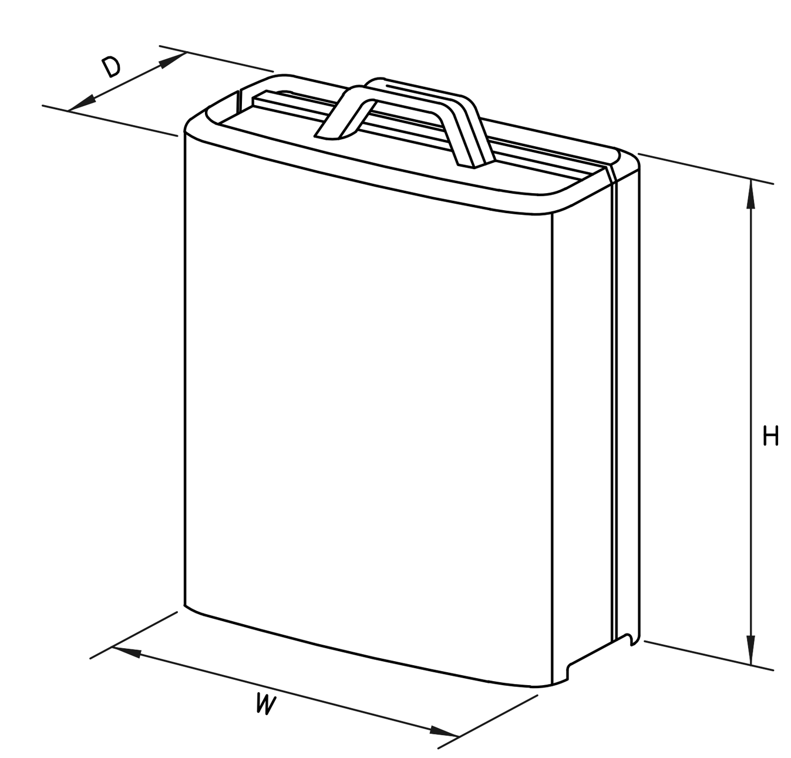
DRAWING TITLE:
ANTENNA LAYOUTS & ELEVATIONS

JOB NUMBER	DRAWING NUMBER	REV
14002-EMP	A-3	0



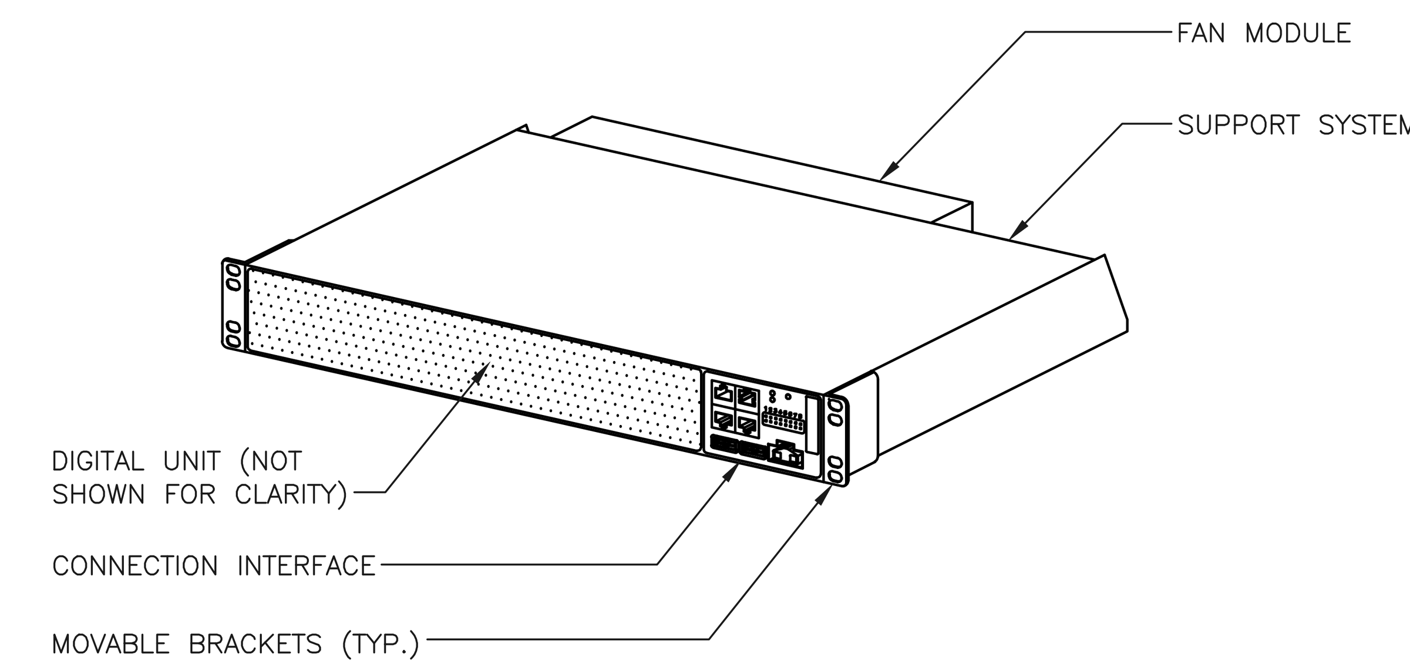
MANUFACTURER	CCI
MODEL	OPA–65R–LCUU–H6
WEIGHT	73.0 LBS

LTE ANTENNA DETAIL
SCALE: N.T.S.



MODEL	L x W x H	WEIGHT
RRUS–11	19.69" x 16.97" x 7.17"	50.7 LBS
RRUS–12	20.4" x 18.5" x 7.5"	58 LBS
RRUS–32	29.9" x 13.3" x 9.5"	77 LBS
RRUS–E2	20.4" x 18.5" x 7.5"	58 LBS
A2 MODULE	16.4" x 15.2" x 3.4"	22 LBS

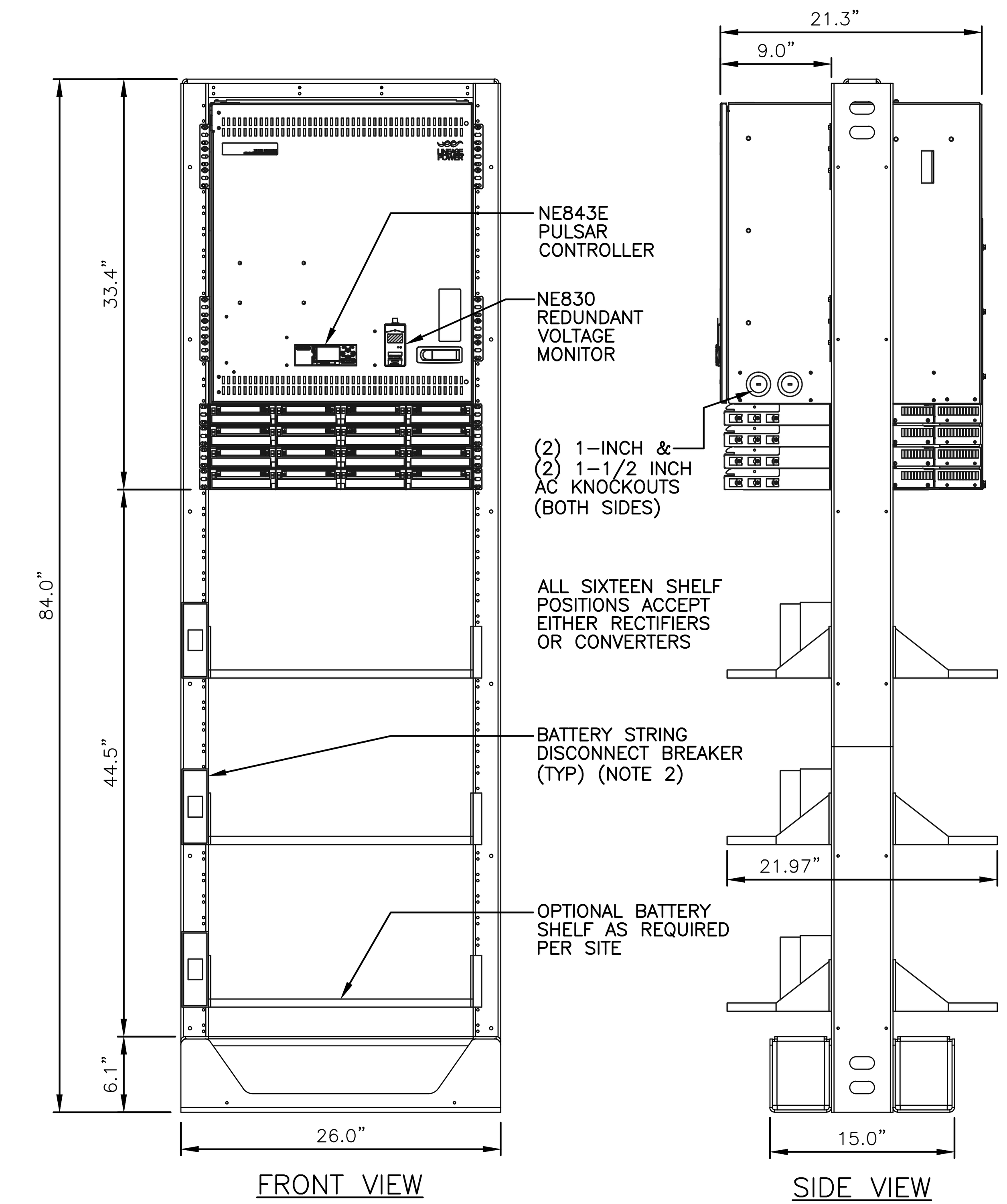
RRUS DETAIL
SCALE: N.T.S.



PHYSICAL CHARACTERISTICS	
HEIGHT	2.59" (1.5 U)
WIDTH	19"
DEPTH	13.77"
WEIGHT (FULLY EQUIPPED)	<22 LBS.
COLOR	WHITE

DC POWER SUPPLY	
NOMINAL VOLTAGE	–48VDC
OPERATING VOLTAGE RANGE	–40.0 TO –57.6 VDC
NON–DESTRUCTIVE VOLTAGE RANGE	0 TO –60 VDC

RBS 6601 DETAIL
SCALE: N.T.S.



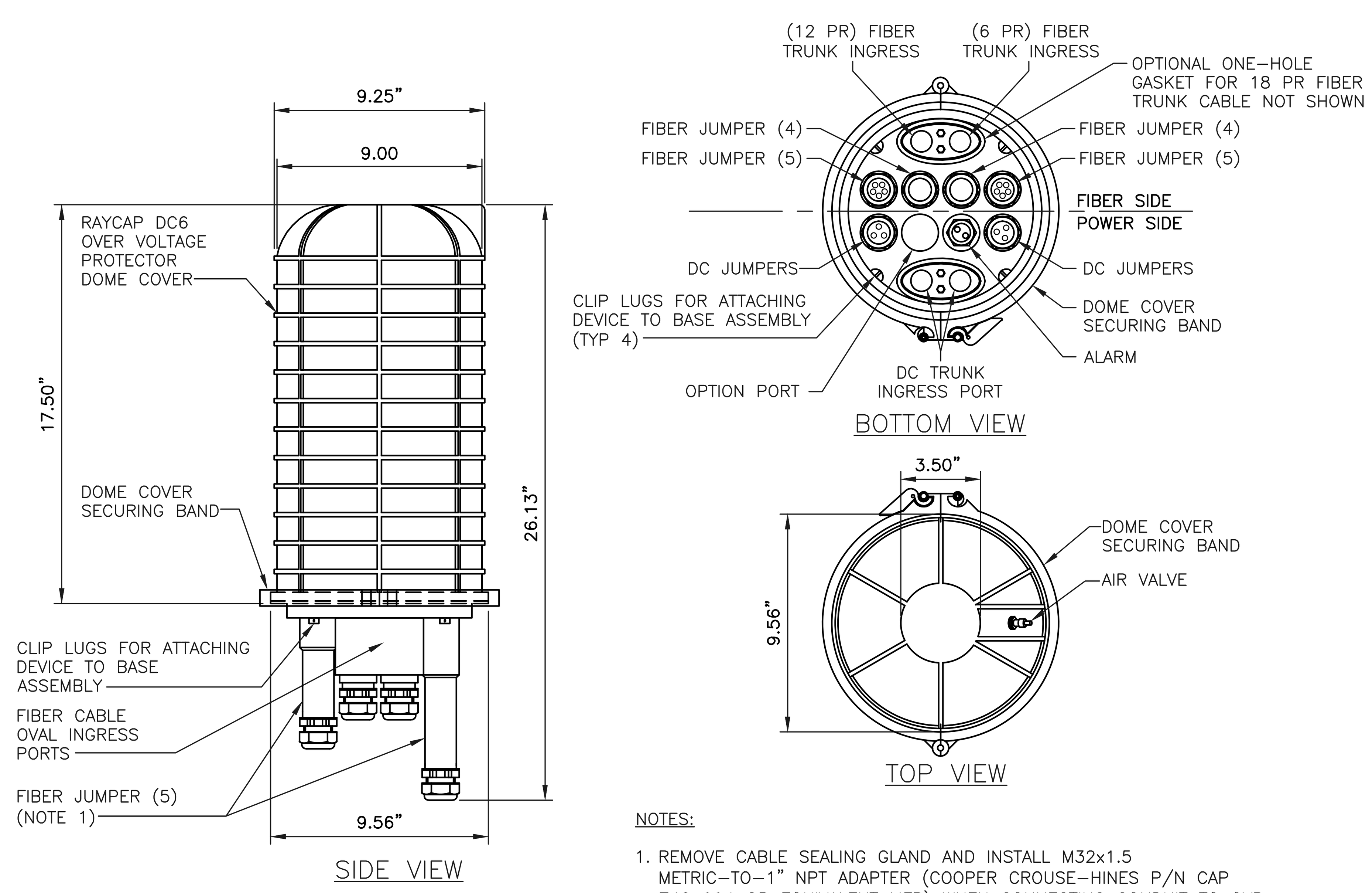
WEIGHT:
FRAME W/DC POWER SYSTEM AND W/0 BATTERIES = 435lbs

BATTERY SHELF (W/(4) 155AH BATTERIES = APPROXIMATELY 500lbs PER SHELF

CLEARANCE:
FRONT = 36"
REAR = 6"
SIDES = 2"

NOTES:
1. GE/LINEAGE FLOOR ANCHOR KIT (847135688) MAY BE USED UNLESS LOCAL REQUIREMENTS GOVERN.
2. DISCONNECT MAY BE MOUNTED TO EITHER SIDE OF TRAY OR DIRECTLY TO FRAMEWORK
3. PER MANUFACTURER, FRAME IS SEISMIC COMPLIANT UP TO 3 BATTERY SHELVES.

POWER PLANT DETAIL
SCALE: N.T.S.



NOTES:
1. REMOVE CABLE SEALING GLAND AND INSTALL M32x1.5 METRIC–TO–1" NPT ADAPTER (COOPER CROUSE–HINES P/N CAP 740 994 OR EQUIVALENT MFR) WHEN CONNECTING CONDUIT TO OVP.

DC-6 SURGE SUPPRESSOR DETAIL
SCALE: N.T.S.

COM–EX Consultants
4 SECOND AVENUE
SUITE 204
DENVILLE, NJ 07834
PHONE: 862.209.4300
FAX: 862.209.4301

EMPIRE telecom
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NEW HAVEN COUNTY

at&t MOBILITY
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

0	03/30/15	INITIAL SUBMISSION	CJT	NDB	NDB
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: CJT	DRAWN BY: CJT		

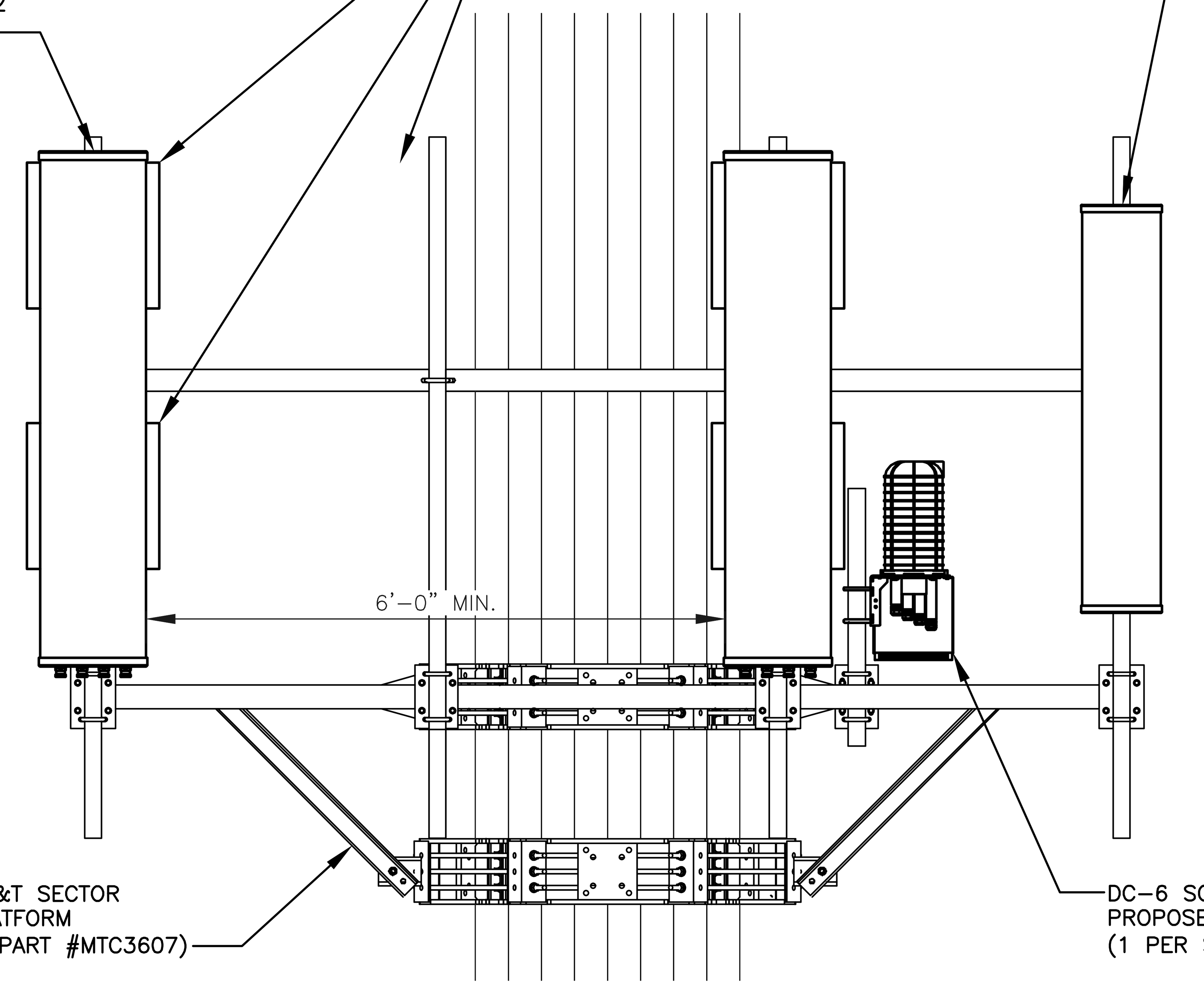
SEAL:
STATE OF CONNECTICUT NICHOLAS D. BARILE No. 28643 LICENSED PROFESSIONAL ENGINEER
[illegible]
03/30/15

AT&T - CSOF.V2

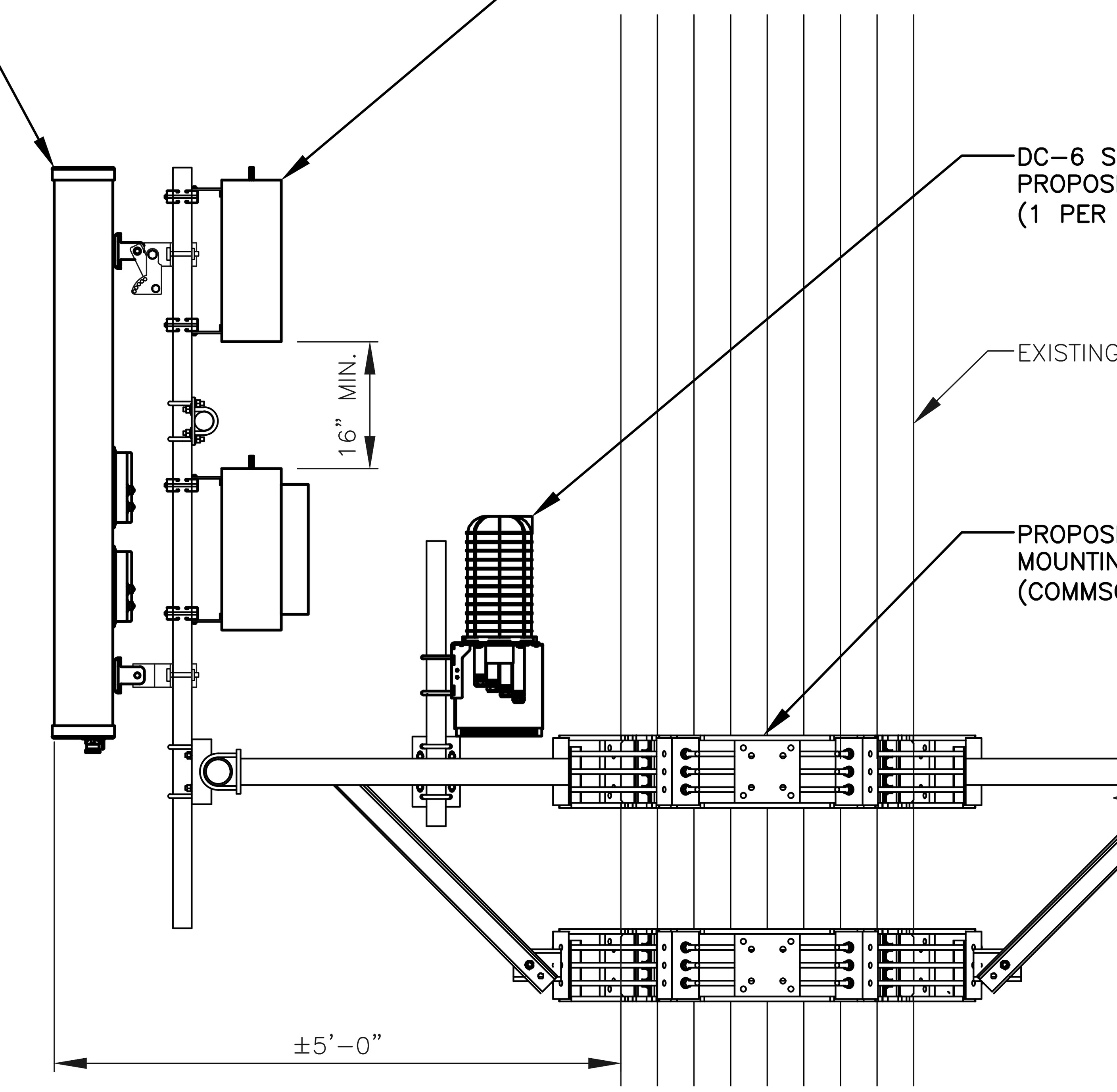
DRAWING TITLE:
DETAILS

JOB NUMBER	DRAWING NUMBER	REV
14002–EMP	A–4	0

MINIMUM SEPARATION OF 6'–0" TO BE MAINTAINED BETWEEN ALL PROPOSED AT&T LTE ANTENNAS



PROPOSED ANTENNA MOUNTING DETAIL (FRONT VIEW)
SCALE: N.T.S.



PROPOSED ANTENNA MOUNTING DETAIL (SIDE VIEW)
SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

	SECTOR	MAKE	MODEL	SIZE (INCHES)
ALPHA	A1	POWERWAVE	7770	55"x11"x5"
	A2	–	–	–
	A3	KMW	AM–X–CD–16–65–00T–RET	72"x11.8"x5.9"
	A4	POWERWAVE	7770	55"x11"x5"
BETA	B1	POWERWAVE	7770	55"x11"x5"
	B2	–	–	–
	B3	KMW	AM–X–CD–16–65–00T–RET	72"x11.8"x5.9"
	B4	POWERWAVE	7770	55"x11"x5"
GAMMA	C1	POWERWAVE	7770	55"x11"x5"
	C2	–	–	–
	C3	KMW	AM–X–CD–16–65–00T–RET	72"x11.8"x5.9"
	C4	POWERWAVE	7770	55"x11"x5"

PROPOSED ANTENNA SCHEDULE

SECTOR	POSITION	MAKE	MODEL	SIZE (INCHES)
ALPHA	A1	POWERWAVE	7770	55"x11"x5"
	A2	CCI	OPA–65R–LCUU–H6	72"x14.8"x7.4"
	A3	–	–	–
	A4	CCI	OPA–65R–LCUU–H6	72"x14.8"x7.4"
BETA	B1	POWERWAVE	7770	55"x11"x5"
	B2	CCI	OPA–65R–LCUU–H6	72"x14.8"x7.4"
	B3	–	–	–
	B4	CCI	OPA–65R–LCUU–H6	72"x14.8"x7.4"
GAMMA	C1	POWERWAVE	7770	55"x11"x5"
	C2	CCI	OPA–65R–LCUU–H6	72"x14.8"x7.4"
	C3	–	–	–
	C4	CCI	OPA–65R–LCUU–H6	72"x14.8"x7.4"

PROJECT OWNER IS RESPONSIBLE FOR PROVIDING A STRUCTURAL STABILITY ANALYSIS TO DETERMINE THE CAPACITY AND SUITABILITY OF THE EXISTING ANTENNA SUPPORT STRUCTURE TO SAFELY CARRY ALL ADDITIONAL LOADS IMPOSED BY THE PROPOSED EQUIPMENT AS SHOWN HEREIN. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCORPORATING ANY REQUIRED STRUCTURAL MODIFICATIONS INTO THEIR SCOPE OF WORK.

PROPOSED RRH SCHEDULE

SECTOR	MAKE	MODEL	SIZE (INCHES)	ADDITIONAL COMPONENT	SIZE (INCHES)
ALPHA	ERICSSON	RRUS–12	20.4"x18.5"x7.5"	ERICSSON A2 MODULE	16.4"x15.2"x3.4"
	ERICSSON	RRUS–11	19.7"x16.9"x7.2"		
	ERICSSON	RRUS–11 (RELOCATED)	19.7"x16.9"x7.2"		
	ERICSSON	RRUS–32	29.9"x13.3"x9.5"		
	ERICSSON	RRUS–E2	20.4"x18.5"x7.5"		
BETA	ERICSSON	RRUS–12	20.4"x18.5"x7.5"	ERICSSON A2 MODULE	16.4"x15.2"x3.4"
	ERICSSON	RRUS–11	19.7"x16.9"x7.2"		
	ERICSSON	RRUS–11 (RELOCATED)	19.7"x16.9"x7.2"		
	ERICSSON	RRUS–32	29.9"x13.3"x9.5"		
	ERICSSON	RRUS–E2	20.4"x18.5"x7.5"		
GAMMA	ERICSSON	RRUS–12	20.4"x18.5"x7.5"	ERICSSON A2 MODULE	16.4"x15.2"x3.4"
	ERICSSON	RRUS–11	19.7"x16.9"x7.2"		
	ERICSSON	RRUS–11 (RELOCATED)	19.7"x16.9"x7.2"		
	ERICSSON	RRUS–32	29.9"x13.3"x9.5"		
	ERICSSON	RRUS–E2	20.4"x18.5"x7.5"		

COM-EX Consultants
4 SECOND AVENUE
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NEW HAVEN COUNTY

at&t MOBILITY
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FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	03/30/15	INITIAL SUBMISSION	CJT	NDB	NDB

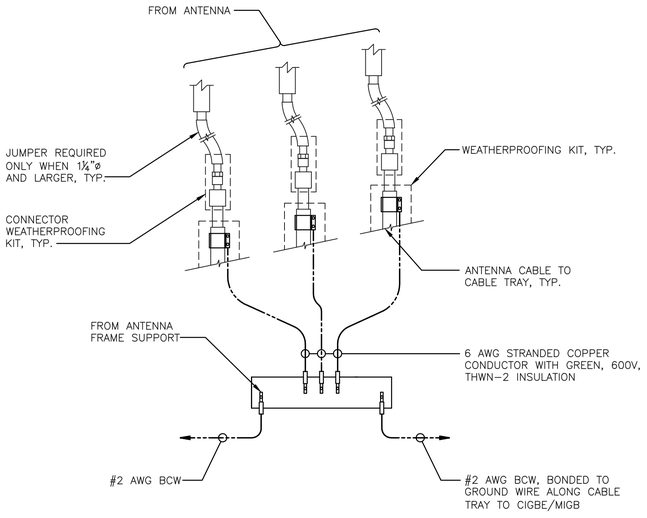
SCALE: AS SHOWN | DESIGNED BY: CJT | DRAWN BY: CJT

SEAL: STATE OF CONNECTICUT NICHOLAS D. BARILE No. 28643 LICENSED PROFESSIONAL ENGINEER
[illegible]
03/30/15

AT&T - CSOF.V2

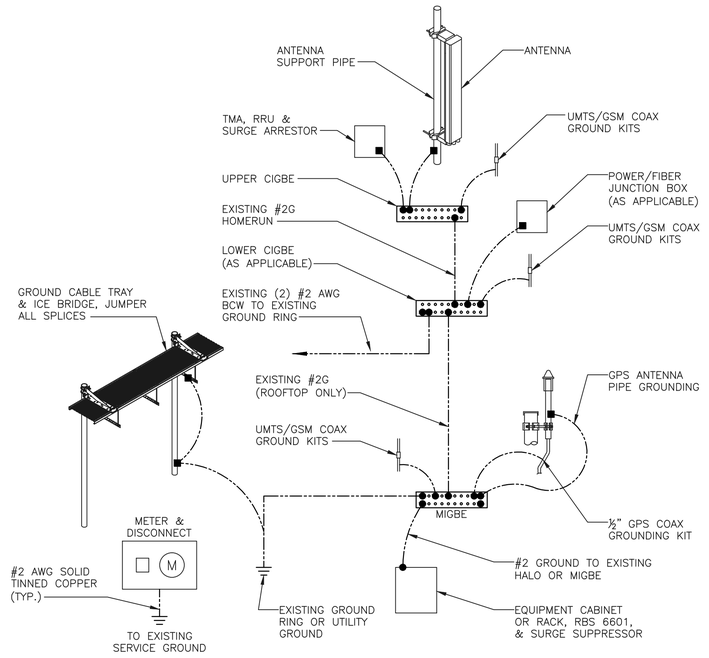
DRAWING TITLE:
ANTENNA MOUNTING DETAILS

JOB NUMBER	DRAWING NUMBER	REV
14002–EMP	A–5	0



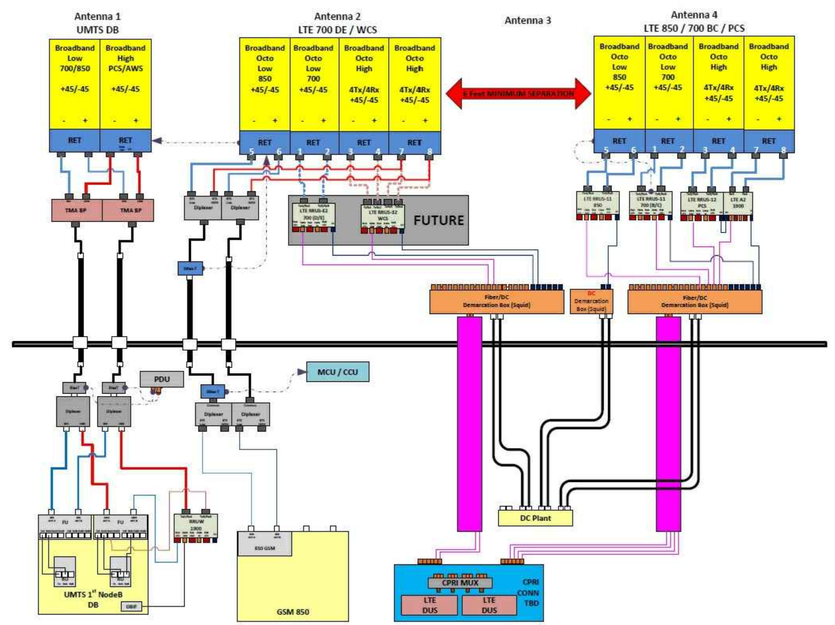
GROUND WIRE TO GROUND BAR CONNECTION DETAIL

SCALE: N.T.S.



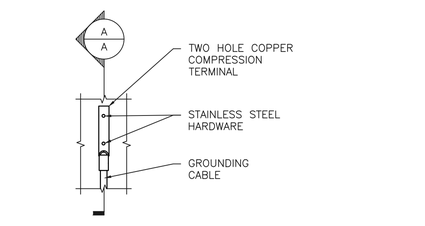
GROUNDING RISER DIAGRAM

SCALE: N.T.S.

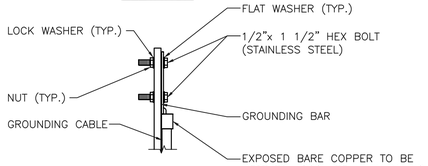


PLUMBING DIAGRAM

SCALE: N.T.S.



ELEVATION



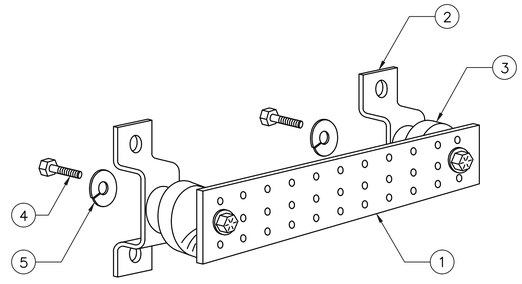
SECTION "A–A"

NOTE:

1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.

TYPICAL GROUND BAR CONNECTION DETAIL

SCALE: N.T.S.



ITEM NO.	QTY.	DESCRIPTION
1	1	SOLID GROUND BAR (20"x 4"x ¼")
2	2	WALL MOUNTING BRACKET
3	2	INSULATORS
4	4	⅝"–11x1" H.H.C.S.
5	4	⅝" LOCK WASHER

NOTES:

EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION

SECTION "P" – SURGE PRODUCERS
- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#2)
- –48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES

SECTION "A" – SURGE ABSORBERS
- INTERIOR GROUND RING (#2)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
- BUILDING STEEL (IF AVAILABLE) (#2)

GROUND BAR DETAIL

SCALE: N.T.S.

COM-EX Consultants
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SUITE 204
DENVILLE, NJ 07834
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FRAMINGHAM, MA 01701

NO.	DATE	REVISIONS	BY	CHK	APP'D
0	03/30/15	INITIAL SUBMISSION	CJT	NDB	NDB

SCALE: AS SHOWN | DESIGNED BY: CJT | DRAWN BY: CJT

SEAL: STATE OF CONNECTICUT – DOUGLAS G. BIRD – No. 28643 – LICENSED PROFESSIONAL ENGINEER
03/30/15

AT&T - CSOF.V2

DRAWING TITLE: GROUNDING, ONE–LINE DIAGRAM & DETAILS

JOB NUMBER	DRAWING NUMBER	REV
14002–EMP	G–1	0

AMERICAN TOWER®
CORPORATION
ATC TOWER SERVICES, INC.
3500 REGENCY PARKWAY, SUITE 100
CARY, NORTH CAROLINA 27518
PHONE: (919) 468-0112 / FAX: (919) 466-5040

302482 - NORTH HAVEN CT 1, CONNECTICUT

150 FT MONOPOLE MODIFICATIONS

PROJECT DESCRIPTION:

THE MODIFICATIONS PRESENTED ON THESE DRAWINGS ARE BASED ON THE RECOMMENDATIONS OUTLINED IN THE STRUCTURAL ANALYSIS COMPLETED UNDER ENGINEERING PROJECT NUMBER 60261722 DATED 11/10/14. SATISFACTORY COMPLETION OF THE WORK INDICATED ON THESE DRAWINGS WILL RESULT IN THE STRUCTURE MEETING THE REQUIREMENTS OF THE SPECIFICATIONS UNDER WHICH THE STRUCTURAL WAS COMPLETED.

AS-BUILT SIGN-OFF		
DESCRIPTION	SIGNATURE	DATE
CONTRACTOR NAME		
CONTRACTOR REP. (PRINT NAME)		
CONTRACTOR REP. (SIGNATURE)		
REDEVELOPMENT P.M. (PRINT NAME)		
REDEVELOPMENT P.M. (SIGNATURE)		

PROJECT SUMMARY

ATC PROJECT NUMBER: 60261734

CUSTOMER: AT&T MOBILITY

CUSTOMER SITE NUMBER: CT2012/FA#10034972

CUSTOMER SITE NAME: NORTH HAVEN - DWIGHT STREET

SITE ADDRESS: 15 DEWIGHT STREET
NORTH HAVEN, CT 06473

DATE: 01/19/15

REVISION: 0

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the state of Connecticut.

SHEET	SHEET TITLE	REV.
BOM	BILL OF MATERIALS (1 PAGE)	0
IGN	IBC GENERAL NOTES	0
A-1	MODIFICATION PROFILE	0
A-2	REINFORCEMENT INSTALLATION DETAILS	0
A-2A	REINFORCEMENT INSTALLATION DETAILS (CONT'D)	0
F-1	TRANSITION WELDMENT FABRICATION DETAILS	0
F-2	#20 BAR BRACKET [W8X21 T-BRACKET]	0
F-3	TERMINATION BRACKET FABRICATION DETAILS	0
#20SB	#20 STEP BOLT BRACKET FABRICATION AND INSTALLATION DETAILS	0

BILL OF MATERIALS

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PART WEIGHT	WEIGHT (lb)	NOTES
			DYWIDAG REINFORCEMENT MATERIAL & HARDWARE					
2	2	----	#20 DYWIDAG THREADBAR	30'-0"	A-1, A-2	501.0	1002	GALVANIZED
1	1	----	#20 DYWIDAG THREADBAR	25'-9"	A-1, A-2	430.0	430	GALVANIZED
1	1	302482-1	TRANSITION WELDMENT	5'-4 3/4"	A-2, F-1	304.0	304	CONCENTRIC
25	25	302482-2	W8X21	1'-3"	A-2, F-2	27.6	690	CONCENTRIC
5	5	302482-3	W8X21	3'-7"	A-2, F-3	12.3	79	CONCENTRIC
134	141	RUH4	RU-BOLT, 5/8"Ø X 3 1/8" C/C	----	F-2	----	----	(2) HHN-LKW / GALVANIZED
93	98	LHMB16#1-HDG	HOLLO-BOLT, 5/8"Ø (M16) LINDAPTER	----	----	----	----	HOT-DIPPED GALVANIZED
4	4	----	#20 DYWIDAG HEX NUT	----	----	----	----	GALVANIZED
24	24	#20SB	STEP BOLT WELDMENT	0'-7 1/4"	#20SB	2.5	60	
						TOTAL WEIGHT (lb)	2,565	

PAGE 1 OF 1

AMERICAN TOWER®
ATC TOWER SERVICES, INC.
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
FAX: (919) 466-5040

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1
CONNECTICUT

SITE ADDRESS:
15 DEWIGHT STREET
NORTH HAVEN, CT 06473

STATE OF CONNECTICUT
SCOTT A. WIRGAU
30575
LICENSED
PROFESSIONAL ENGINEER
2.23.15

DRAWN BY:	JLB
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734

SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER: BOM
REV. #: 0

GENERAL

1. ALL METHODS, MATERIALS AND WORKMANSHIP SHALL FOLLOW THE DICTATES OF GOOD CONSTRUCTION PRACTICE.
2. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS. DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS FOR THIS JOB.
4. ANY SUBSTITUTIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
5. ANY MANUFACTURED DESIGN ELEMENTS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS AND SHOULD BE SIMILAR TO THOSE SHOWN. THESE DESIGN ELEMENTS MUST BE STAMPED BY AN ENGINEER PROFESSIONALLY REGISTERED IN THE STATE OF THE PROJECT, AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL CODES AND OSHA SAFETY REGULATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER TIA-1019-A-2011, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
8. CONTRACTOR'S PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.

STRUCTURAL STEEL

1. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS, LATEST EDITION.
2. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
3. ALL U-BOLTS SHALL BE ASTM A36 OR EQUIVALENT, WITH LOCKING DEVICE, UNLESS NOTED OTHERWISE.
4. FIELD CUT EDGES, EXCEPT DRILLED HOLES, SHALL BE GROUND SMOOTH.
5. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
6. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.

WELDING

1. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
2. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE (100% IF REJECTABLE DEFECTS ARE FOUND) TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
3. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
4. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
5. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
6. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.

BOLT TIGHTENING PROCEDURE

1. STRUCTURAL CONNECTIONS TO BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RCSC-2004 (SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS.)
2. TIGHTEN FLANGE BOLTS BY AISC "TURN-OF-THE-NUT" METHOD, USING THE CHART BELOW:

BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS

1/2"	BOLTS UP TO AND INCLUDING 2.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
5/8"	BOLTS UP TO AND INCLUDING 2.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
3/4"	BOLTS UP TO AND INCLUDING 3.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
7/8"	BOLTS UP TO AND INCLUDING 3.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1"	BOLTS UP TO AND INCLUDING 4.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS UP TO AND INCLUDING 4.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS UP TO AND INCLUDING 5.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS UP TO AND INCLUDING 5.5 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS UP TO AND INCLUDING 6.0 INCH LENGTH	+1/3 TURN BEYOND SNUG TIGHT

BOLT LENGTHS OVER FOUR DIAMETERS BUT NOT EXCEEDING EIGHT DIAMETERS

1/2"	BOLTS 2.25 TO 4.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
5/8"	BOLTS 2.75 TO 5.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
3/4"	BOLTS 3.25 TO 6.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
7/8"	BOLTS 3.75 TO 7.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1"	BOLTS 4.25 TO 8.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/8"	BOLTS 4.75 TO 9.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/4"	BOLTS 5.25 TO 10.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-3/8"	BOLTS 5.75 TO 11.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT
1-1/2"	BOLTS 6.25 TO 12.0 INCH LENGTH	+1/2 TURN BEYOND SNUG TIGHT

3. SPLICE BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTION 8.2.1 OF THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

   FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4.

   8.2.1 TURN-OF-NUT PRETENSIONING
   BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY.

4. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

   ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT INSERTION OF THE BOLTS WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH WASHERS POSITIONED AS REQUIRED AND NUTS THREADED TO COMPLETE THE ASSEMBLY. COMPACTING THE JOINT TO THE SNUG-TIGHT CONDITION SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. THE SNUG-TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.

PAINT

1. AS REQUIRED, CLEAN AND PAINT PROPOSED STEEL ACCORDING TO FAA ADVISORY CIRCULAR AC 70/7460-1K.

APPLICABLE CODES AND STANDARDS

1. ANSI/TIA: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, 222-G EDITION.
2. 2003 INTERNATIONAL BUILDING CODE WITH 2005 CONNECTICUT SUPPLEMENTS AND 2009 CONNECTICUT AMENDMENTS.
3. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-02.
4. CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
5. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.
6. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

SPECIAL INSPECTION

1. A QUALIFIED INDEPENDENT TESTING LABORATORY, EMPLOYED BY THE OWNER, SHALL PERFORM INSPECTION AND TESTING IN ACCORDANCE WITH IBC 2003, SECTION 1704 AS REQUIRED BY PROJECT SPECIFICATIONS FOR THE FOLLOWING CONSTRUCTION WORK:
   a) STRUCTURAL WELDING (CONTINUOUS INSPECTION OF FIELD WELD ONLY)
   b) HIGH STRENGTH BOLTS (PERIODIC INSPECTION OF A325 EXTENSION FLANGE BOLTS TO BE TIGHTENED PER "TURN-OF-THE-NUT" METHOD)
2. THE INSPECTION AGENCY SHALL SUBMIT INSPECTION AND TEST REPORTS TO THE BUILDING DEPARTMENT, THE ENGINEER OF RECORD, AND THE OWNER IN ACCORDANCE WITH IBC 2003, SECTION 1704, UNLESS THE FABRICATOR IS APPROVED BY THE BUILDING OFFICIAL TO PERFORM SUCH WORK WITHOUT THE SPECIAL INSPECTIONS.

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ATC TOWER SERVICES, INC.
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
FAX: (919) 466-5040

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1

CONNECTICUT

SITE ADDRESS:
15 DEWIGHT STREET
NORTH HAVEN, CT 06473

STATE OF CONNECTICUT
SCOTT A. WIRGAU
30575
LICENSED
PROFESSIONAL ENGINEER
01/23/15

DRAWN BY:	JLB
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734

SHEET TITLE:
IBC GENERAL NOTES

SHEET NUMBER:	REV. #
IGN	0

AT&T MOBILITY
EL: 150.0' [PROPOSED]

EL: 150.0'
[TOP OF STRUCTURE]

SECTION 4

EL: 110.0'

SECTION 3

EL: 73.5'

SECTION 2

EL: 35.7'

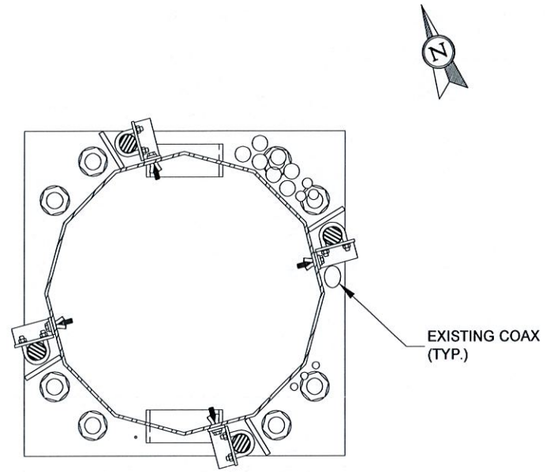
SECTION 1

EL: 0.0'
[BOTTOM OF STRUCTURE]

EXTEND (1) EXISTING #20 DYWIDAG REINFORCEMENT BAR FROM EL: 95.3' TO 121.0'. SEE SHEETS A-2 TO A-2A FOR INSTALLATION DETAILS.

INSTALL (2) #20 DYWIDAG REINFORCEMENT BARS FROM EL: 91.0' TO 121.0'. SEE SHEETS A-2 TO A-2A FOR INSTALLATION DETAILS.

TOWER ELEVATION VIEW



COAX DISTRIBUTION
EXTERIOR ONLY

NOTES:

1. **PROPOSED AT&T MOBILITY COAX TO BE INSTALLED INSIDE MONOPOLE.**
2. **CONTACT AMERICAN TOWER FIELD OPERATIONS WHEN EXISTING EQUIPMENT INTERFERES WITH INSTALLATION OF MODIFICATIONS. ONCE APPROVED, EXISTING EQUIPMENT MAY BE TEMPORARILY MOVED DURING INSTALLATION & REINSTALLED TO THE ORIGINAL HEIGHT & LOCATION BY CONTRACTOR POST COMPLETION OF MODIFICATIONS.**

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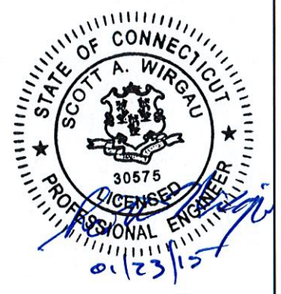
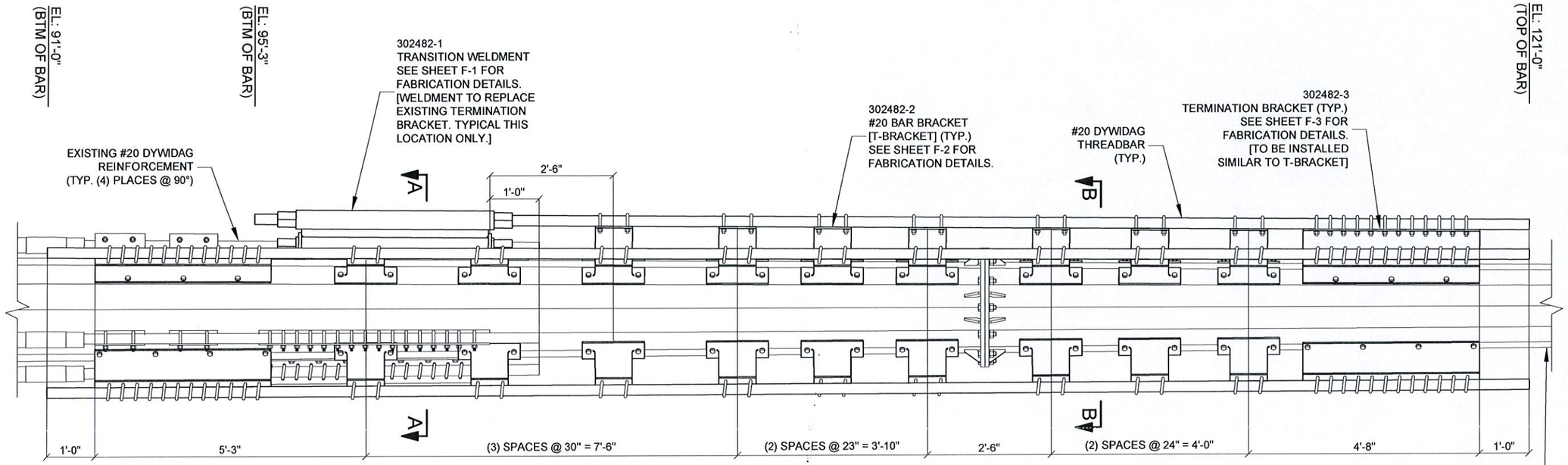


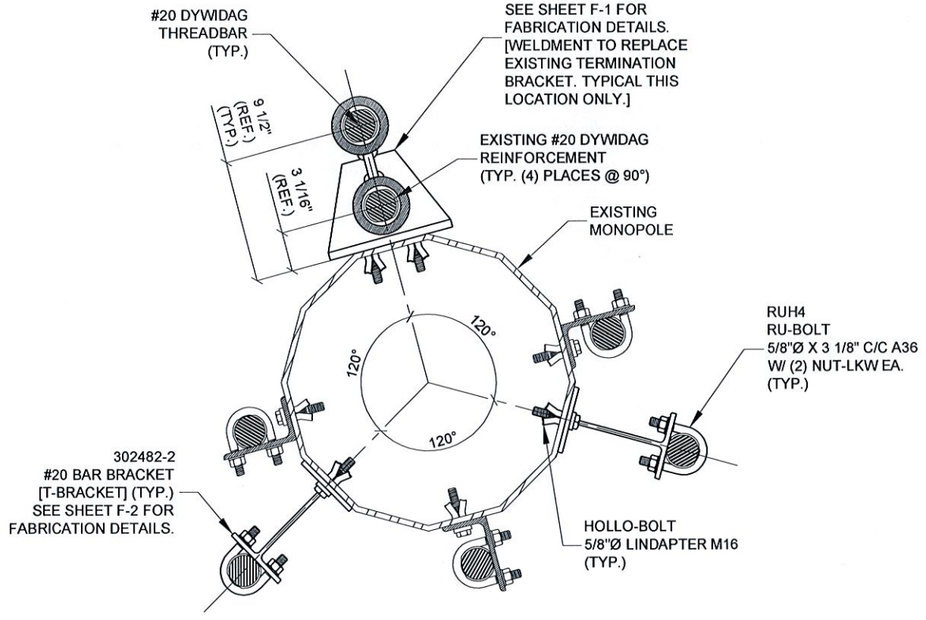
DRAWN BY:	JLB
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734

SHEET TITLE:
MODIFICATION PROFILE

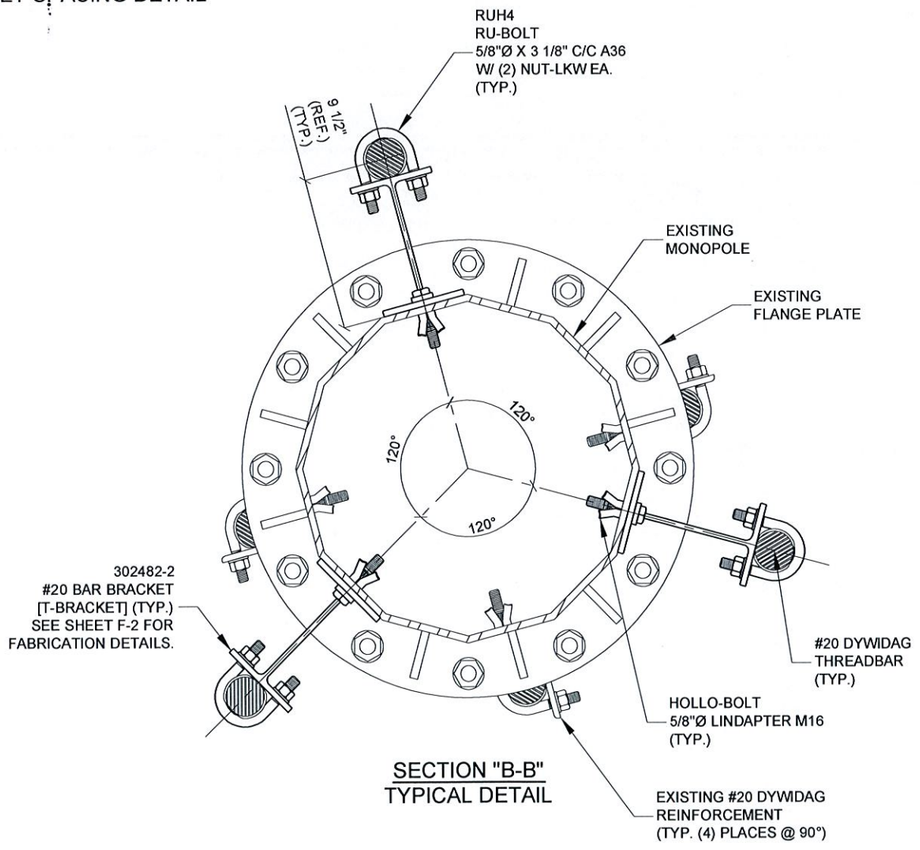
SHEET NUMBER:	REV. #
A-1	0



ELEVATION VIEW
#20 BAR BRACKET SPACING DETAIL



SECTION "A-A"
TYPICAL DETAIL



SECTION "B-B"
TYPICAL DETAIL

NOTES:
1. REPLACE ANY EXISTING STEP BOLTS THAT INTERFERE WITH NEW REINFORCING BARS. THE NEW STEP SHALL BE ATTACHED TO THE REINFORCING BARS IN THE SAME APPROXIMATE LOCATION. SEE SHEET #20SB FOR INSTALLATION DETAILS.
2. PLACE A BRACKET (302482-1) DIRECTLY ABOVE AND BELOW ANY EXISTING PORTHOLE AS REQUIRED.
3. SEE SHEET A-2A FOR #20 BAR BRACKET INSTALLATION DETAILS.

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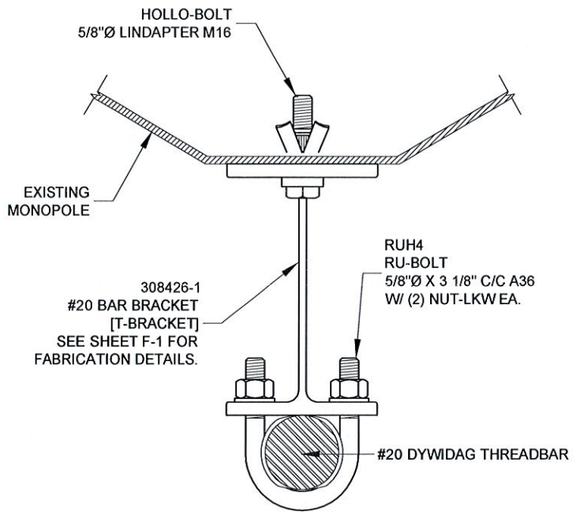
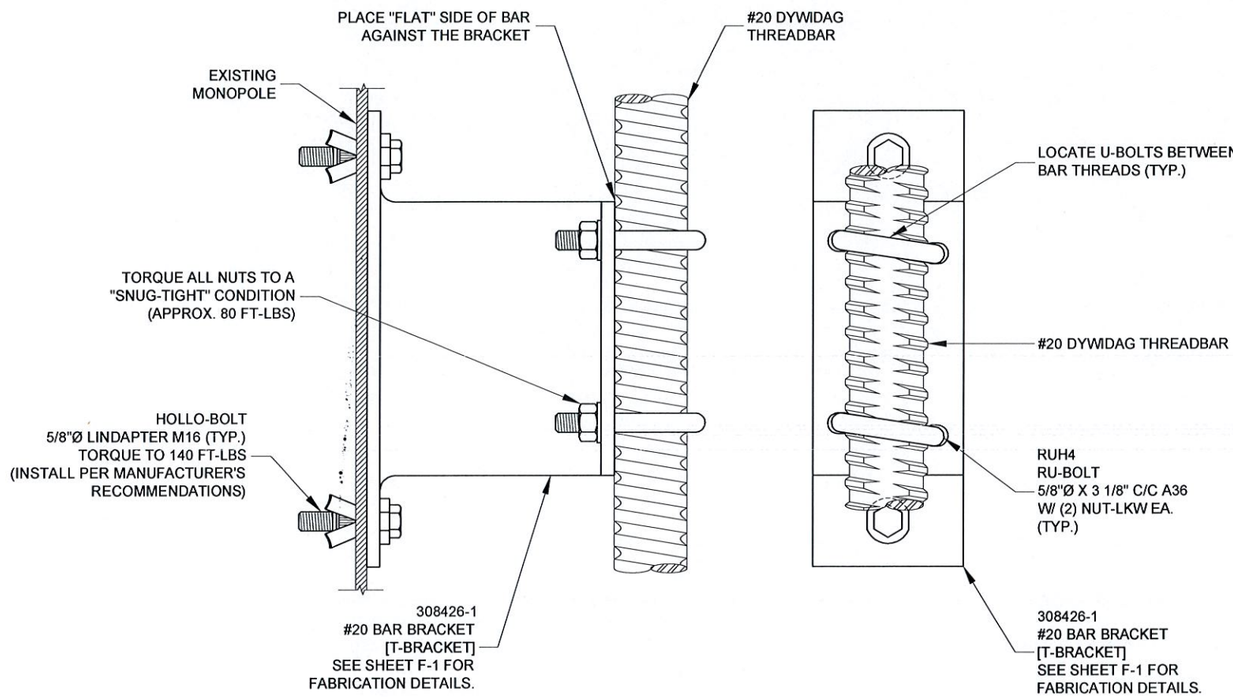
DRAWN BY:	JLB
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734

SHEET TITLE:
REINFORCEMENT INSTALLATION DETAILS

SHEET NUMBER:	REV. #
A-2	0



PLAN VIEW
#20 BAR BRACKET ORIENTATION
[W5X19 T-BRACKET]



ELEVATION VIEW
#20 BAR BRACKET ORIENTATION
[W5X19 T-BRACKET]

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LICENSED
PROFESSIONAL ENGINEER
01/23/15

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APPROVED BY:	SAW
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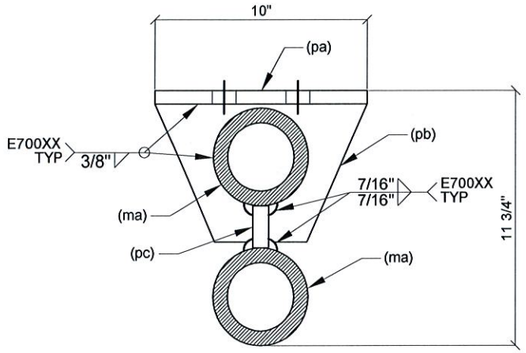
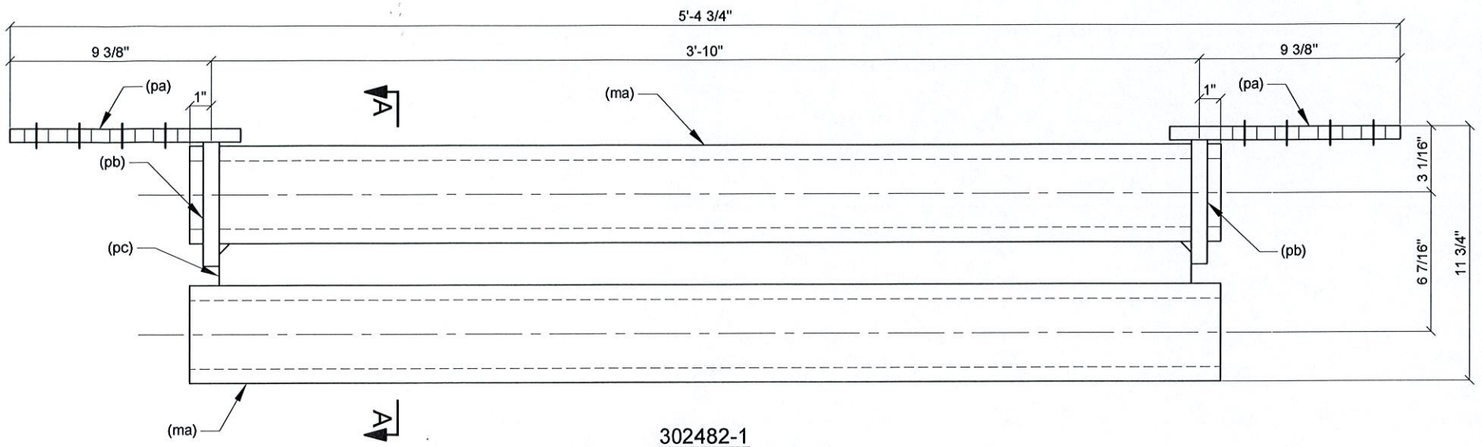
ATC JOB NO:	60261734

SHEET TITLE:
REINFORCEMENT
INSTALLATION DETAILS
(CONT'D)

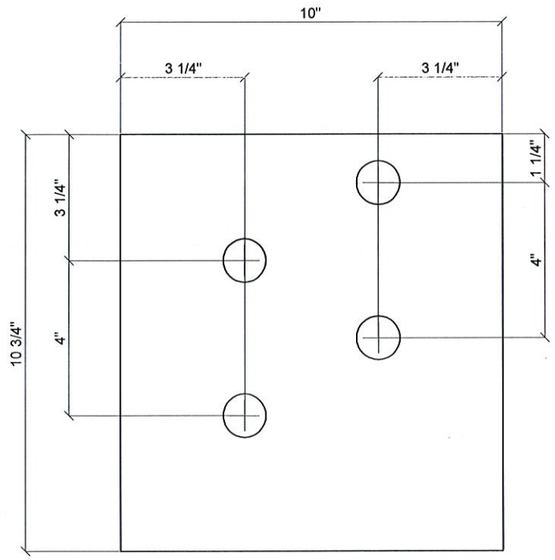
SHEET NUMBER:	REV. #
A-2A	0



SECTION "A-A"



302482-1
TRANSITION WELDMENT



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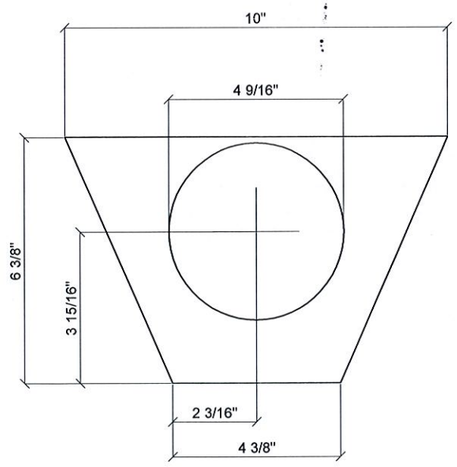

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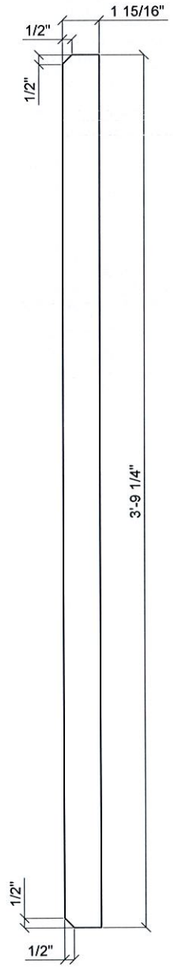

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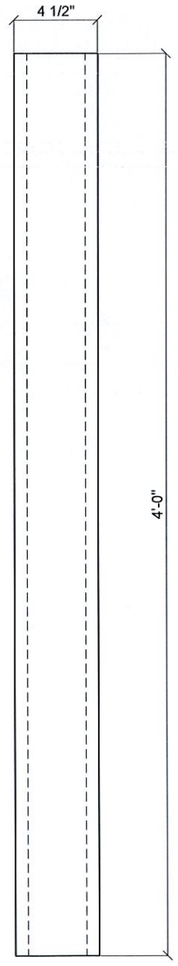

(ma)

PART NO.	QTY	DESCRIPTION	LENGTH	NOTES	BLK WT
(ma)	2	PIPE 4.5" OD X 0.674"	4'-0"	A53 GR. B	220.3#
(pc)	1	PL 3/4" X 1 15/16"	3'-9 1/4"		18.6#
(pb)	2	PL 3/4" X 6 3/8"	0'-10"	SHAPE	12.4#
(pa)	2	PL 5/8" X 10 3/4"	0'-10"		38.2#
302482-1	1	TRANSITION WELDMENT	5'-4 3/4"		289.5#

MATERIAL: A572 GR. 50 U.N.O. **FINISH:** GALVANIZED **HOLES:** 1 1/8"Ø U.N.O. **GALV WT:** 304.0#

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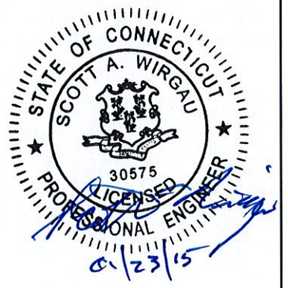

DRAWN BY:	JLB
APPROVED BY:	SAW
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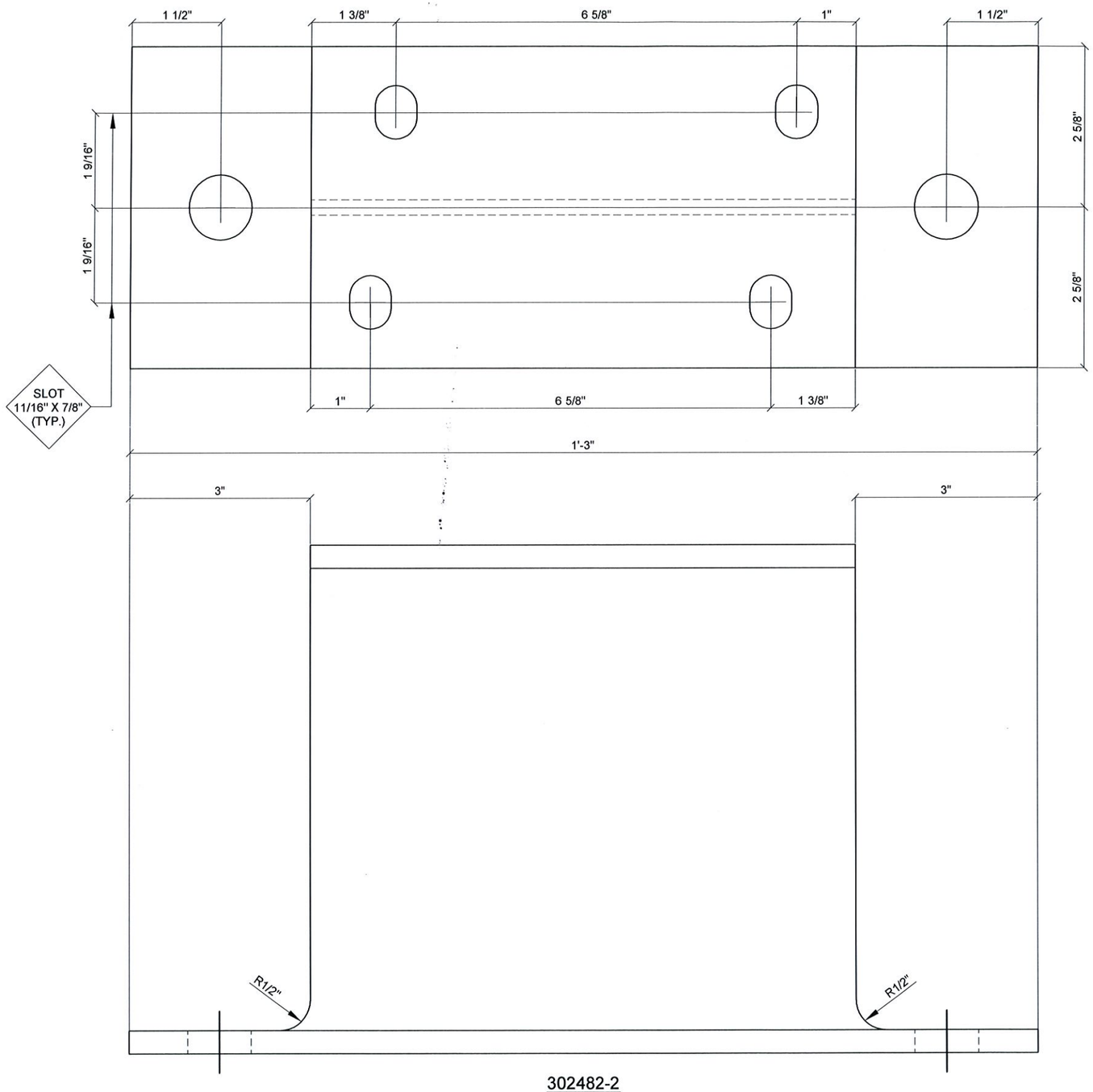
ATC JOB NO:	60261734

SHEET TITLE:
TRANSITION WELDMENT
FABRICATION DETAILS

SHEET NUMBER:	REV. #
F-1	0



302482-2
#20 BAR BRACKET
[T-BRACKET]

RUH4
RU-BOLT 5/8"Ø X 3 1/8" C/C

302482-2	W8X21	1'-3"		26.3#	27.6#
PART NO.	**DESCRIPTION**	**LENGTH**	**NOTES**	**BLK WT**	**GALV WT**
MATERIAL: A36	**FINISH:** GALVANIZED		**HOLES:** 1 1/16"Ø U.N.O.		

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STATE OF CONNECTICUT
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01/23/15

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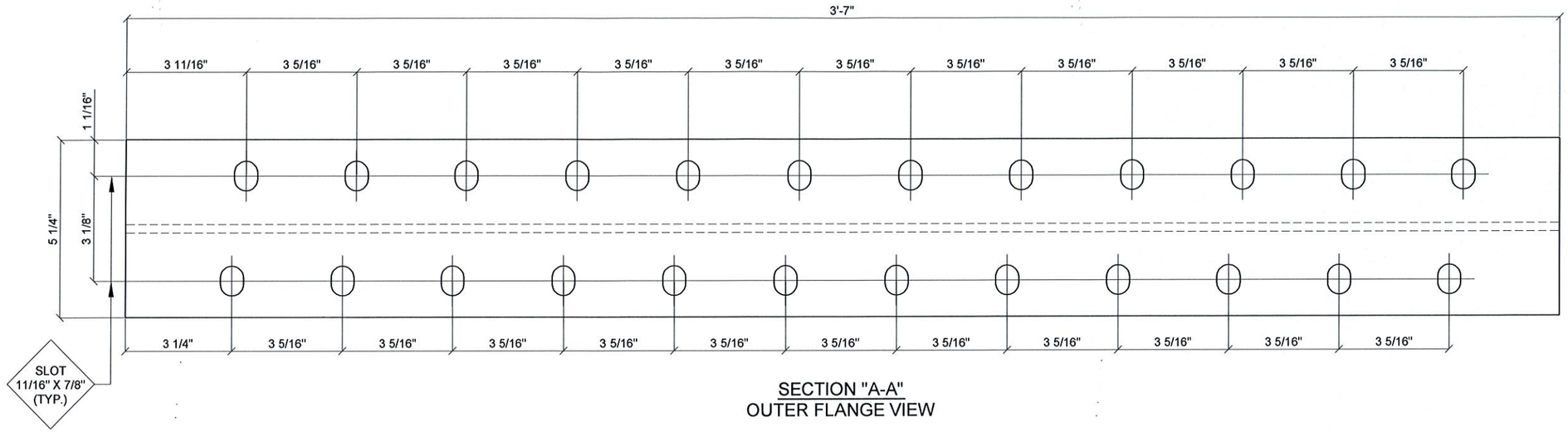
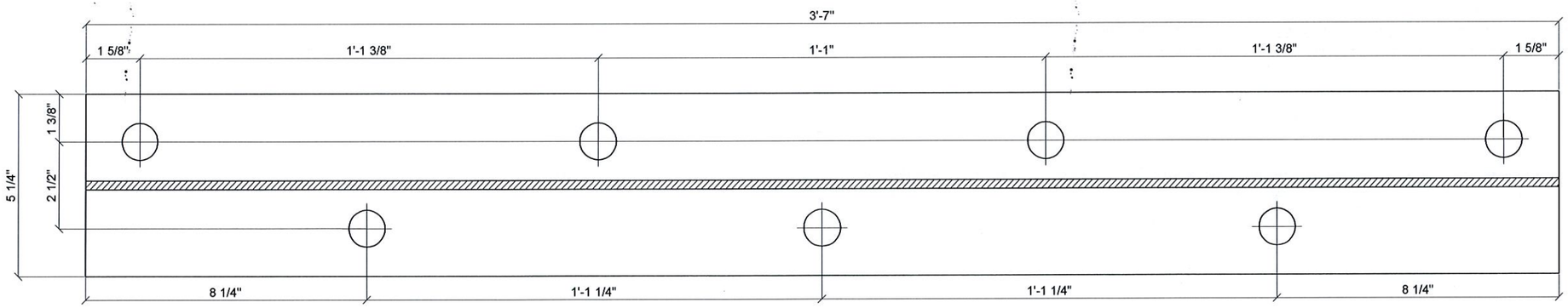
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734

SHEET TITLE:
#20 BAR BRACKET
[W8X21 T-BRACKET]

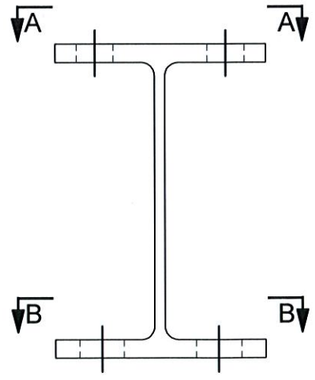
SHEET NUMBER:	REV. #
F-2	0



SECTION "A-A"
OUTER FLANGE VIEW



SECTION "B-B"
INNER FLANGE VIEW



302482-3
(NTS)

302482-3	W8X21	3'-7"		75.3#	79.0#
PART NO.	**DESCRIPTION**	**LENGTH**	**NOTES**	**BLK WT**	**GALV WT**
MATERIAL: A36	**FINISH:** GALVANIZED		**HOLES:** 1 1/16"Ø U.N.O.		

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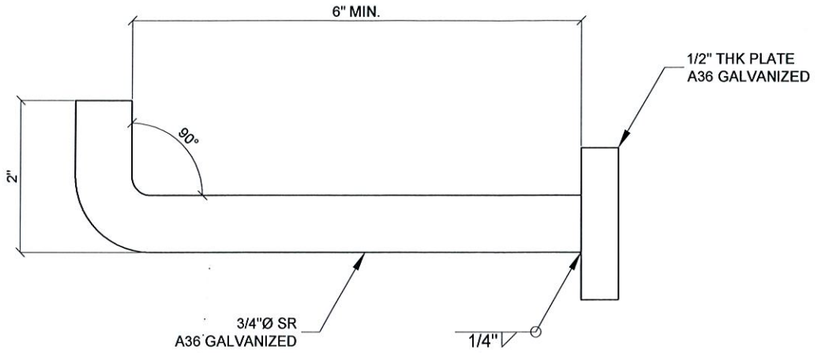
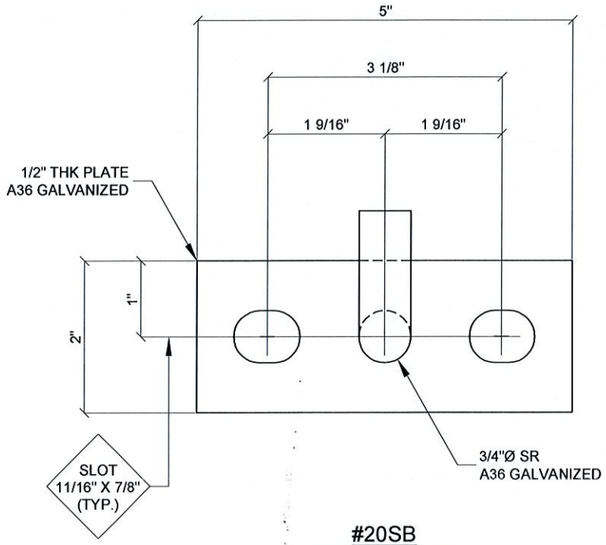
ATC JOB NO:	60261734

SHEET TITLE:
TERMINATION BRACKET
FABRICATION DETAILS

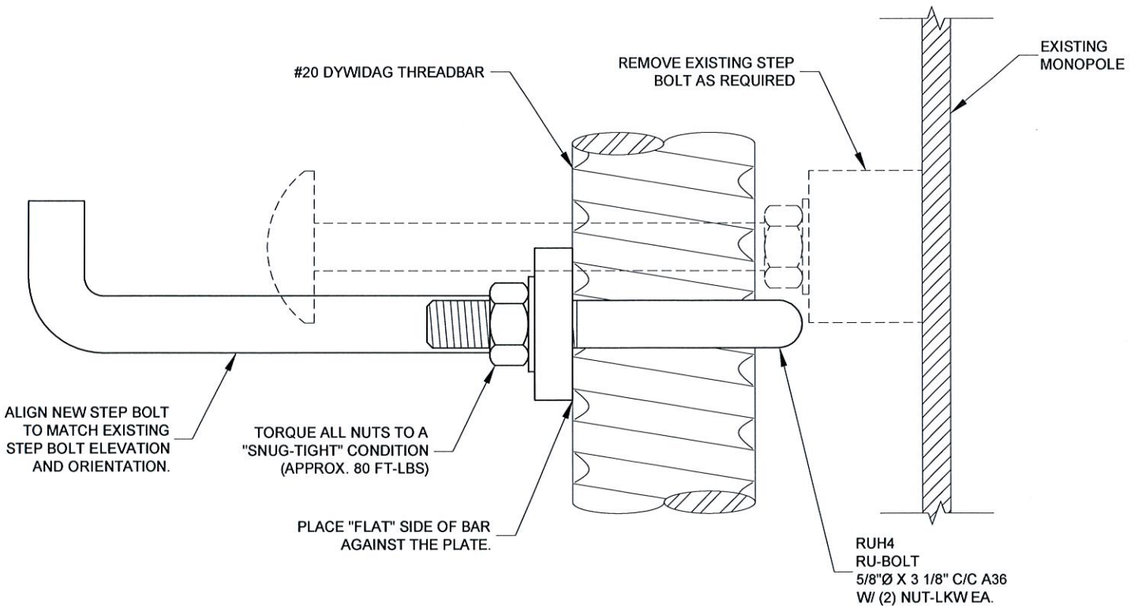
SHEET NUMBER:	REV. #
F-3	0



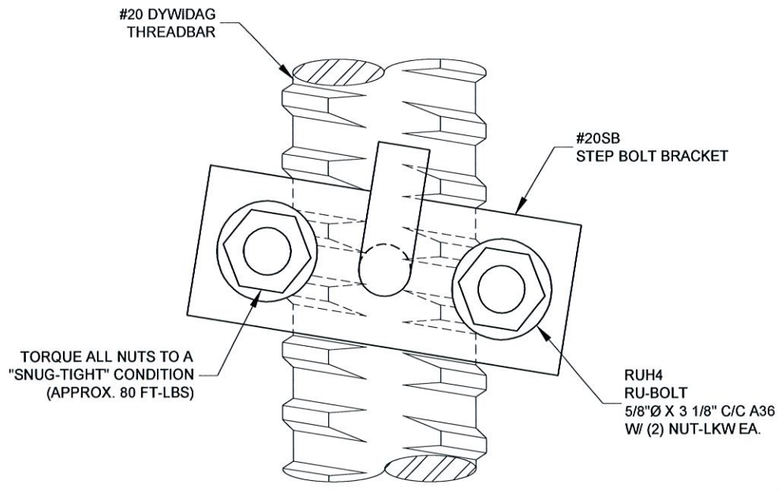
#20SB
SIDE VIEW



#20SB
FRONT VIEW



#20SB INSTALLATION DETAILS
SIDE VIEW



#20SB INSTALLATION DETAILS
FRONT VIEW

AMERICAN TOWER®
ATC TOWER SERVICES, INC.
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
PHONE: (919) 468-0112
FAX: (919) 466-5040

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	JLB	01/19/15

ATC SITE NUMBER:
302482

ATC SITE NAME:
NORTH HAVEN CT 1
CONNECTICUT

SITE ADDRESS:
15 DEWIGHT STREET
NORTH HAVEN, CT 06473

STATE OF CONNECTICUT
SCOTT A. WIRGAU
30575
LICENSED
PROFESSIONAL ENGINEER
01/23/15

DRAWN BY:	JLB
APPROVED BY:	SAW
DATE DRAWN:	01/19/15
ATC JOB NO:	60261734

SHEET TITLE:
#20 STEP BOLT BRACKET FABRICATION AND INSTALLATION DETAILS

SHEET NUMBER:	REV. #
#20SB	0