

April 9, 2015

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

Re: **Notice of Exempt Modification – Facility Modification
45 Spaulding Road, Plainfield, Connecticut**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains twelve (12) wireless telecommunications antennas at the 114-foot level on an existing 150-foot tower at 45 Spaulding Road in Plainfield (the “Property”). The tower is owned American Tower Corporation. Cellco’s use of the tower was approved by the Council in 2000. Cellco now intends to modify its facility by replacing nine (9) of its existing antennas with three (3) model BXA-70080-4CF, 850 MHz antennas; three (3) model HBXX-6517DS-VTM, 1900 MHz antennas; and three (3) model HBXX-6517DS-VTM, 2100 MHz antennas, all at the same level on the tower. Cellco also intends to install six (6) remote radio heads (“RRHs”) behind its 1900 MHz and 2100 MHz antennas and one (1) HYBRIFLEX™ antenna cable inside the tower shaft. Included in Attachment 1 are specifications for Cellco’s replacement antennas, RRHs and HYBRIFLEX™ cable.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Paul E. Sweet, First Selectman of the Town of Plainfield. A copy of this letter is also being sent to Beatrice L. Theroux, the owner of the Property.

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

13582637-v1

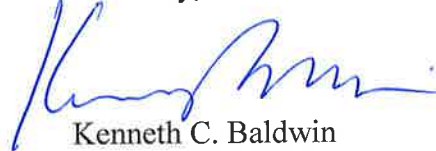
Robinson+Cole

Melanie A. Bachman
April 9, 2015
Page 2

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas and RRHs will be installed on its existing antenna platform at the 114-foot level on the tower.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table with Cellco's modified facility is included in Attachment 2.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The tower and its foundation can support Cellco's proposed modifications. (*See* Structural Analysis Report included in Attachment 3).

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Paul E. Sweet, Plainfield First Selectman
Beatrice L. Theroux
Tim Parks

ATTACHMENT 1

BXA-70080-4CF-EDIN-X

X-Pol | FET Panel | 80° | 12.0 dBd

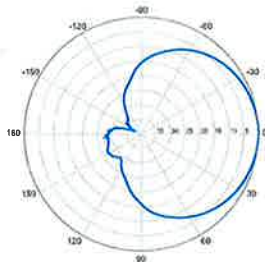
Replace 'X' with desired electrical downtilt.

Antenna is also available with NE connector(s). Replace 'EDIN' with 'NE' in the model number when ordering.



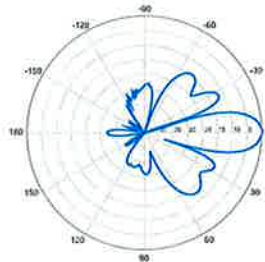
Electrical Characteristics	696-900 MHz		
Frequency bands	696-806 MHz	806-900 MHz	
Polarization	±45°		
Horizontal beamwidth	82°	80°	
Vertical beamwidth	17°	15°	
Gain	11.5 dBd (13.6 dBi)	12.0 dBd (14.1 dBi)	
Electrical downtilt (X)	0, 2, 4, 6, 8, 10, 12, 14		
Impedance	50Ω		
VSWR	≤1.35:1		
Upper sidelobe suppression (0°)	-11.8 dB	-13.1 dB	
Front-to-back ratio (+/-30°)	-30.3 dB	-36.7 dB	
Null fill	5% (-26.02 dB)		
Isolation between ports	< -25 dB		
Input power with EDIN connectors	500 W		
Input power with NE connectors	300 W		
Lightning protection	Direct Ground		
Connector(s)	2 Ports / EDIN or NE / Female / Center (Back)		
Mechanical Characteristics			
Dimensions Length x Width x Depth	1206 x 204 x 151 mm	47.5 x 8.0 x 5.9 in	
Depth with z-brackets	196 mm	7.7 in	
Weight without mounting brackets	5.4 kg	12 lbs	
Survival wind speed	> 201 km/hr	> 125 mph	
Wind area	Front: 0.25 m ² Side: 0.18 m ²	Front: 2.6 ft ² Side: 1.9 ft ²	
Wind load @ 161 km/hr (100 mph)	Front: 351 N Side: 280 N	Front: 79 lbf Side: 61 lbf	
Mounting Options	Part Number	Fits Pipe Diameter	Weight
2-Point Mounting & Downtilt Bracket Kit	36210006	40-115 mm 1.57-4.5 in	4.1 kg 9 lbs
Concealment Configurations	For concealment configurations, order BXA-70080-4CF-EDIN-X-FP		

BXA-70080-4CF-EDIN-X



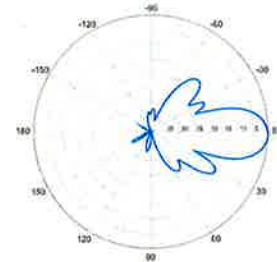
Horizontal | 750 MHz

BXA-70080-4CF-EDIN-0

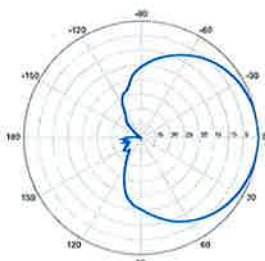


0° | Vertical | 750 MHz

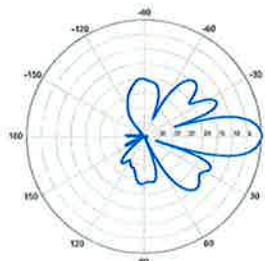
BXA-70080-4CF-EDIN-2



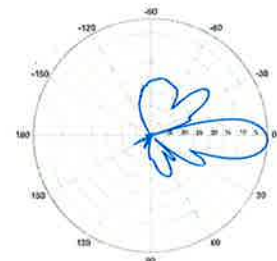
2° | Vertical | 750 MHz



Horizontal | 850 MHz



0° | Vertical | 850 MHz



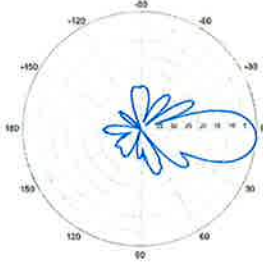
2° | Vertical | 850 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

BXA-70080-4CF-EDIN-X

X-Pol | FET Panel | 80° | 12.0 dBd

BXA-70080-4CF-EDIN-4



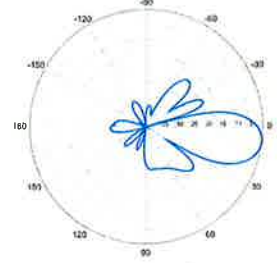
4° | Vertical | 750 MHz

BXA-70080-4CF-EDIN-6

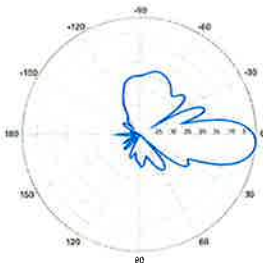


6° | Vertical | 750 MHz

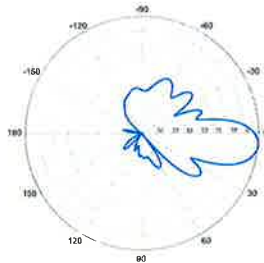
BXA-70080-4CF-EDIN-8



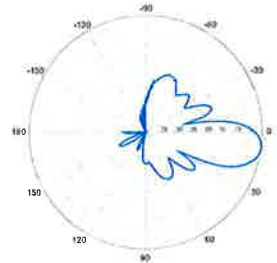
8° | Vertical | 750 MHz



4° | Vertical | 850 MHz

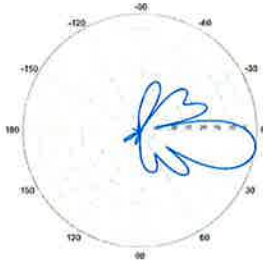


6° | Vertical | 850 MHz



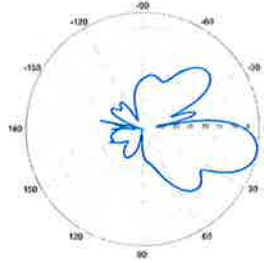
8° | Vertical | 850 MHz

BXA-70080-4CF-EDIN-10



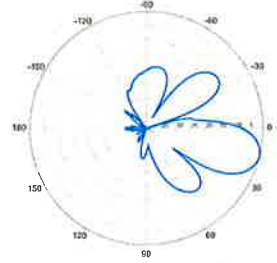
10° | Vertical | 750 MHz

BXA-70080-4CF-EDIN-12

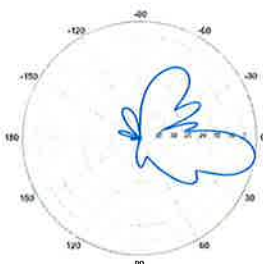


12° | Vertical | 750 MHz

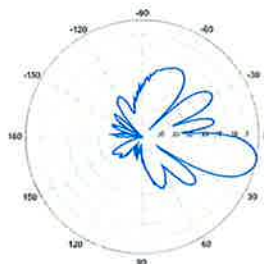
BXA-70080-4CF-EDIN-14



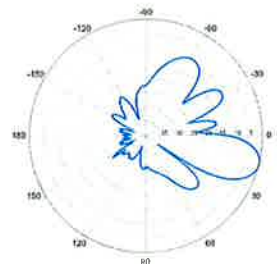
14° | Vertical | 750 MHz



10° | Vertical | 850 MHz



12° | Vertical | 850 MHz



14° | Vertical | 850 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



HBXX-6517DS-VTM

Andrew® Quad Port Antenna, 1710–2180 MHz, 65° horizontal beamwidth, RET compatible

- Superior azimuth tracking and pattern symmetry with excellent passive intermodulation suppression

Electrical Specifications

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain, dBi	19.0	19.1	19.2
Beamwidth, Horizontal, degrees	67	66	65
Beamwidth, Vertical, degrees	5.0	4.7	4.4
Beam Tilt, degrees	0–6	0–6	0–6
USLS, dB	18	18	18
Front-to-Back Ratio at 180°, dB	30	30	30
CPR at Boresight, dB	21	22	21
CPR at Sector, dB	10	11	9
Isolation, dB	30	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350
Polarization	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	1710–1880	1850–1990	1920–2180
Gain by all Beam Tilts, average, dBi	18.5	18.6	18.8
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.4
Gain by Beam Tilt, average, dBi	0° 18.4	0° 18.4	0° 18.7
	3° 18.7	3° 18.7	3° 18.9
	6° 18.4	6° 18.5	6° 18.6
Beamwidth, Horizontal Tolerance, degrees	±2.4	±1.7	±2.9
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.3	±0.3
USLS, dB	18	19	19
Front-to-Back Total Power at 180° ± 30°, dB	25	26	26
CPR at Boresight, dB	22	23	22
CPR at Sector, dB	10	10	9

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® quad
Band	Single band
Brand	DualPol® Teletilt®
Operating Frequency Band	1710 – 2180 MHz

Product Specifications

COMMScope®

HBXX-6517DS-VTM

POWERED BY



Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground
Radiator Material	Low loss circuit board
Radome Material	PVC, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	4
Wind Loading, maximum	668.0 N @ 150 km/h 150.2 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph

Dimensions

Depth	166.0 mm 6.5 in
Length	1903.0 mm 74.9 in
Width	305.0 mm 12.0 in
Net Weight	19.5 kg 43.0 lb

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HBXX-6517DS-A2M
RET System Teletilt®

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



Included Products

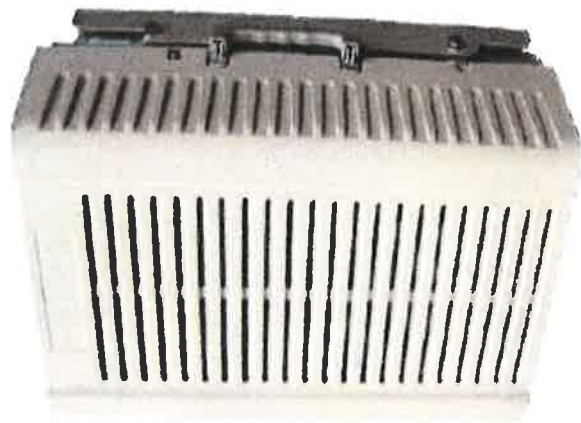
600899A-2 — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

PCS RF MODULES

RRH1900 2X60 - HW CHARACTERISTICS

LA6.0.1/13.3

RRH2x60	
RF Output Power	2X60W
Instantaneous Bandwidth	20MHz
Transmitter	2 TX
Receiver	1900 HW version 1900A HW version
Features	2 Branch RX – LA6.0.1 4 Branch RX – LR13.3 AISG 2.0 for RET/TMA Internal Smart Bias-T
Power	-48VDC
CPRI Ports	2 CPRI Rate 3 Ports
External Alarms	4 External User Alarms
Monitor Ports	TX
Environmental	GR487 Compliance
RF Connectors	7/16 DIN (top mounted)

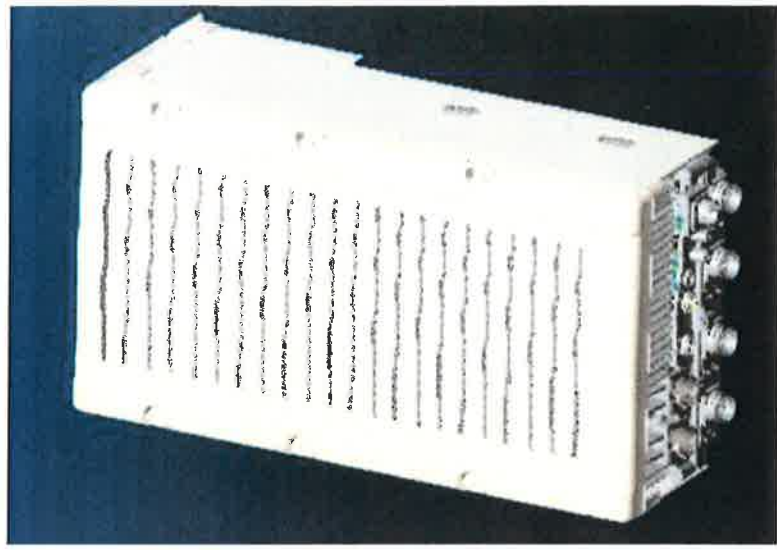


** Not a Verizon Wireless deployed product

NEW PCS RF MODULES FOR VZW RRH2X60 - HW CHARACTERISTICS

LR14.3

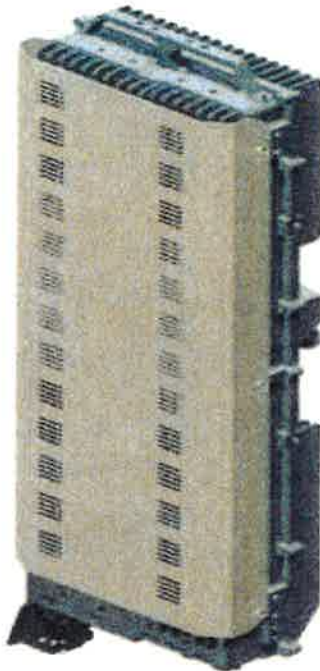
RRH2x60	
RF Output Power	2x60W (4x30W HW Ready)
Instantaneous Bandwidth	60MHz
Target Reliability (Annual Return Rate)	<2%
Receiver	4 Branch Rx
Features	AISG 2.0 for RET/TMA
Power	-48VDC Internal Smart Bias-T
CPRI Ports	2 CPRI Rate 5 Ports
External Alarms	4 External User Alarms
Monitor Ports	TX, RX
Environmental	GR487 Compliance
RF Connectors	7/16 DIN (downward facing)
Dimensions	22"(h) x 12"(w) x 9.4" (d)**
Weight	55lb**



** - Includes solar shield but not mounting brackets (8 lbs.)

ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET RRH2X60-AWS FOR BAND 4 APPLICATIONS

The Alcatel-Lucent RRH2x60-AWS is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent RRH2x60-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals

along with operations, administration and maintenance (OA&M) information.

SUPERIOR RF PERFORMANCE

The Alcatel-Lucent RRH2x60-AWS integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

OPTIMIZED TCO

The Alcatel-Lucent RRH2x60-AWS is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

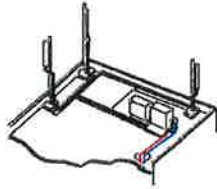
EASY INSTALLATION

The RRH2x60-AWS includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

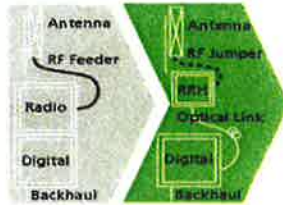
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent RRH2x60-AWS is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

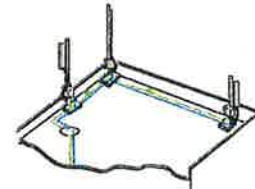
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- RRH2x60-AWS integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- RRH2x60-AWS is optimized for LTE operation
- RRH2x60-AWS is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control

BENEFITS

- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and

silent solutions, with minimum impact on the neighborhood, which ease the deployment

- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

TECHNICAL SPECIFICATIONS

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x186mm (27 l with solar shield)
- Weight : 20 kg (44 lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 250W @2x60W

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz, DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisy chaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Six external alarms
- Surge protection for all external ports (DC and RF)

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

www.alcatel-lucent.com Alcatel, Lucent, Alcatel-Lucent and the Alcatel-Lucent logo are trademarks of Alcatel-Lucent. All other trademarks are the property of their respective owners. The information presented is subject to change without notice. Alcatel-Lucent assumes no responsibility for inaccuracies contained herein.

Copyright © 2012 Alcatel-Lucent. All rights reserved. M2012XXXXXX (March)



HYBRIFLEX™ RRH Hybrid Feeder Cabling Solution, 1-5/8", Single-Mode Fiber

Product Description

RFS' HYBRIFLEX Remote Radio Head (RRH) hybrid feeder cabling solution combines optical fiber and DC power for RRHs in a single lightweight aluminum corrugated cable, making it the world's most innovative solution for RRH deployments.

It was developed to reduce installation complexity and costs at Cellular sites, HYBRIFLEX allows mobile operators deploying an RRH architecture to standardize the RRH installation process and eliminate the need for and cost of cable grounding. HYBRIFLEX combines optical fiber (multi-mode or single-mode) and power in a single corrugated cable. It eliminates the need for junction boxes and can connect multiple RRHs with a single feeder. Standard RFS CELLFLEX® accessories can be used with HYBRIFLEX cable. Both pre-connectorized and on-site options are available.

Features/Benefits

- Aluminum corrugated armor with outstanding bending characteristics - minimizes installation time and enables mechanical protection and shielding
- Same accessories as 1 5/8" coaxial cable
- Outer conductor grounding - Eliminates typical grounding requirements and saves on installation costs
- Lightweight solution and compact design - Decreases tower loading
- Robust cabling - Eliminates need for expensive cable trays and ducts
- Installation of tight bundled fiber optic cable pairs directly to the RRH - Reduces CAPEX and wind load by eliminating need for interconnection
- Optical fiber and power cables housed in single corrugated cable - Saves CAPEX by standardizing RRH cable installation and reducing installation requirements
- Outdoor polyethylene jacket - Ensures long-lasting cable protection

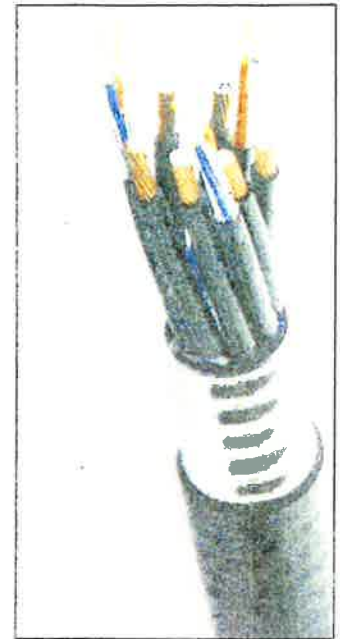


Figure 1: HYBRIFLEX Series

Technical Specifications

Dimensions			
Outer Conductor Armor	Corrugated Aluminum	(mm (in))	45.5 (1.83)
Jacket	Polyethylene, PE	(mm (in))	50.3 (1.98)
UV-Protection	Individual and External Jacket		Yes
Mechanical Properties			
Weight, Approximate		(kg/m (lb/ft))	1.9 (1.30)
Minimum Bending Radius, Single Bending		(mm (in))	200 (8)
Minimum Bending Radius, Repeated Bending		(mm (in))	500 (20)
Recommended/Maximum Clamp Spacing		(m (ft))	1.0 / 1.2 (3.25 / 4.0)
Electrical Properties			
DC-Resistance Outer Conductor Armor		(Ω/km (Ω/1000ft))	068 (0.205)
DC-Resistance Power Cable, 8.4mm ² (8AWG)		(Ω/km (Ω/1000ft))	2.1 (0.307)
Optical Properties			
Version			Single-mode OM3
Quantity, Fiber Count			16 (8 pairs)
Core/Clad	(μm)		50/125
Primary Coating (Acrylate)	(μm)		245
Buffer Diameter, Nominal	(μm)		900
Secondary Protection, Jacket, Nominal	(mm (in))		2.0 (0.08)
Minimum Bending Radius	(mm (in))		104 (4.1)
Insertion Loss @ wavelength 850nm	dB/km		3.0
Insertion Loss @ wavelength 1310nm	dB/km		1.0
Standards (Meets or exceeds)			UL94-V0, UL1666 RoHS Compliant
DC Power Cable Properties			
Size (Power)	(mm (AWG))		8.4 (8)
Quantity, Wire Count (Power)			16 (8 pairs)
Size (Alarm)	(mm (AWG))		0.8 (18)
Quantity, Wire Count (Alarm)			4 (2 pairs)
Type			UV protected
Strands			19
Primary Jacket Diameter, Nominal	(mm (in))		6.8 (0.27)
Standards (Meets or exceeds)			NFPA 130, ICEA S-95-658 UL Type XHHW-2, UL 44 UL-LS Limited Smoke, UL VW-1 IEEE-383 (1974), IEEE1202/FT4 RoHS Compliant
Environment			
Installation Temperature	(°C (°F))		-40 to +65 (-40 to 149)
Operation Temperature	(°C (°F))		-40 to +65 (-40 to 149)

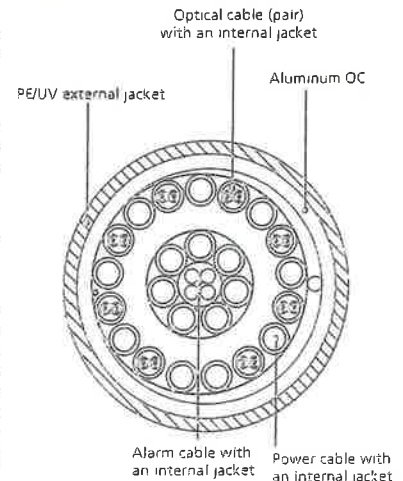


Figure 2: Construction Detail

All information contained in the present datasheet is subject to confirmation at time of ordering.

ATTACHMENT 2

		General		Power		Density							
Site Name: Plainfield Tower Height: 150Ft.													
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total					
*AT&T UMTS	2	565	154	0.0171	880	0.5867	2.92%						
*AT&T UMTS	2	875	154	0.0265	1900	1.0000	2.65%						
*AT&T GSM	1	283	154	0.0043	880	0.5867	0.73%						
*AT&T GSM	4	525	154	0.0318	1900	1.0000	3.18%						
*AT&T LTE	1	1771	154	0.0269	734	0.4893	5.49%						
Verizon PCS	11	470	114	0.1430	1970	1.0000	14.30%						
Verizon Cellular	9	243	114	0.0605	869	0.5793	10.44%						
Verizon AWS	1	2806	114	0.0776	2145	1.0000	7.76%						
Verizon 700	1	886	114	0.0245	746	0.4973	4.93%						
								52.42%					
* Source: Siting Council													

ATTACHMENT 3



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 150 ft Monopole
ATC Site Name : Plainfield CT 6, CT
ATC Site Number : 302498
Engineering Number : 58052023
Proposed Carrier : Verizon
Carrier Site Name : Plainfield CT
Carrier Site Number : 118618
Site Location : 45 Spaulding Road
Plainfield, CT 06374-1824
41.674806, -71.879100
County : Windham
Date : February 10, 2015
Max Usage : 100%
Result : Pass

Prepared By:
Isaac P. Dodson
Structural Engineer I

Isaac P. Dodson

Reviewed by:
Scott Wirgau, PE
Structural Team Leader



Feb 12 2015 4:40 PM



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	2
Proposed Equipment	2
Structure Usages	3
Foundations	3
Deflection, Twist, and Sway.....	3
Standard Conditions	4
Calculations	Attached



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 Verizon.

Supporting Documents

Tower Drawings	ITT Meyer 'Type B' Specification, ATT Spec AT-8935, dated April 13, 1984
Foundation Drawing	SNET Job #3C234, dated April 24, 1990
Geotechnical Report	GEOServices Project #21-07254, dated April 20, 2009
Modifications	ATC Project #48651233, dated May 8, 2012

Analysis

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

Basic Wind Speed:	105 mph (3-Second Gust)
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 meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

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



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
149.0	154.0	6	Powerwave LGP21902	Platform w/ Handrails	(12) 1 5/8" Coax (2) 0.78" 8 AWG 6 (1) 0.39" Fiber Trunk (1) 3" Conduit	AT&T Mobility
		6	Powerwave LGP21401			
		1	Raycap DC6-48-60-18-8F			
		6	Ericsson RRUS-11			
		6	Powerwave 7770.00			
		2	KMW AM-X-CD-17-65-00T-RET			
		1	Andrew SBNH-1D6565C			
114.0	114.0	6	RFS FD9R6004/2C-3L	T-Arms	(12) 1 5/8" Coax	Verizon
		3	Antel BXA-70063/6CF-EDIN-X			
39.0	39.0	1	0.5' Omni	Side Arm	(1) 1/2" Coax	AT&T Mobility

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
114.0	114.0	3	Antel BXA-171085-12BF-EDIN-X	-	-	Verizon
		6	Antel LPA-80080-4CF-EDIN-0			

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
114.0	114.0	3	Alcatel-Lucent RRH 2X60-1900	T-Arms	(1) 1 5/8" Hybriflex	Verizon
		3	Alcatel-Lucent RRH2X60-AWS Band 4			
		3	Antel BXA-70080-4CF-EDIN-X			
		1	RFS DB-T1-6Z-8AB-OZ			
		6	Commscope HBXX-6517DS-A2M			

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

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	67%	Pass
Shaft	100%	Pass
Base Plate	42%	Pass
Flanges	82%	Pass
Reinforcement	70%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	2,214.2	87%
Axial (Kips)	45.4	41%
Shear (Kips)	23.6	21%

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) (°)
114.0	1.563	1.865

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



Standard Conditions

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

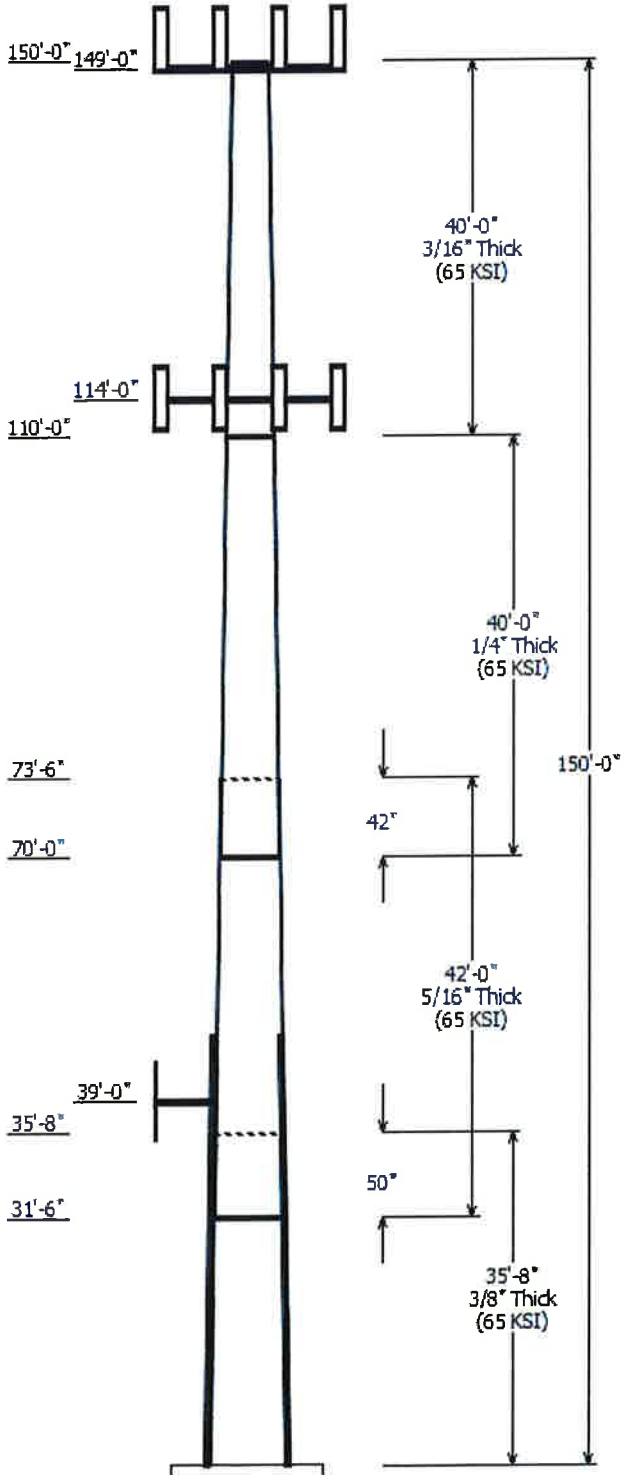
- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements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

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC 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. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

© 2007 - 2015 by ATC IP LLC. All rights reserved.



Job Information	
Pole :	302498
Code:	ANSI/TIA-222 Rev G
Description :	150' ITT Meyer Type "B" Monopole
Client :	Verizon Wireless
Struct Class :	II
Location :	Plainfield CT 6, CT
Shape :	12 Sides
Exposure :	B
Height :	150.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.15670(in/ft)

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap Length (in)	Steel Taper Grade (ksi)
		Top	Bottom				
1	35.667	31.79	37.38	0.375		0.000	0.156706 65
2	42.000	26.48	33.07	0.313	Slip Joint	50.000	0.156706 65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	0.156706 65
4	40.000	15.00	21.26	0.188	Butt Joint	0.000	0.156706 65

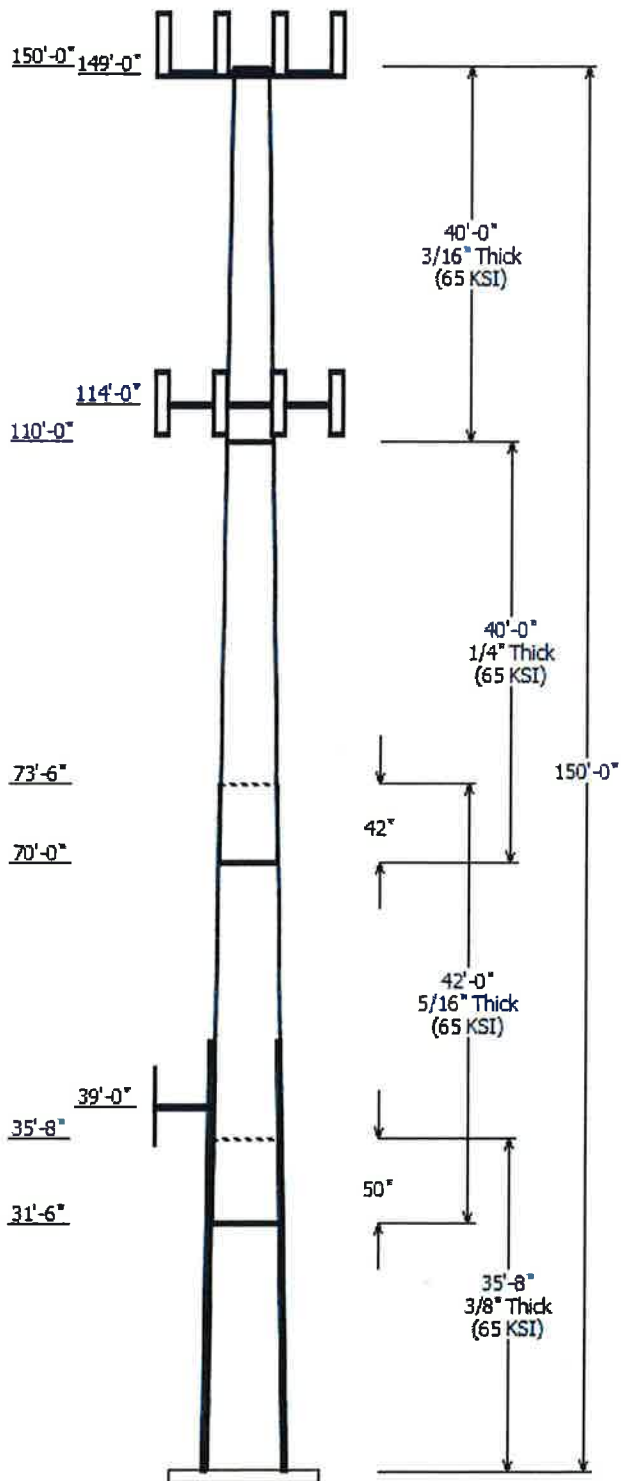
Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
149.000	154.000	1	Raycap DC6-48-60-18-8F
149.000	154.000	6	Powerwave LGP21902
149.000	154.000	6	Powerwave LGP21401
149.000	154.000	6	Ericsson RRUS-11
149.000	154.000	6	Powerwave 7770.00
149.000	154.000	1	Andrew SBNH-1D6565C
149.000	154.000	2	KMW AM-X-CD-17-65-00T-RET
149.000	149.000	1	Flat Platform w/ Handrails
114.000	114.000	6	Commscope HBXX-6517DS-
114.000	114.000	3	Alcatel-Lucent RRH2X60-AWS
114.000	114.000	3	Alcatel-Lucent RRH 2X60-1900
114.000	114.000	1	RFS DB-T1-6Z-8AB-0Z
114.000	114.000	6	RFS FD9R6004/2C-3L
114.000	114.000	3	Antel BXA-70080-4CF-EDIN-X
114.000	114.000	3	Round T-Arms
114.000	114.000	3	Antel BXA-70063/6CF-EDIN-X
39.000	39.000	1	Flat Side Arm
39.000	39.000	1	0.5' Omni

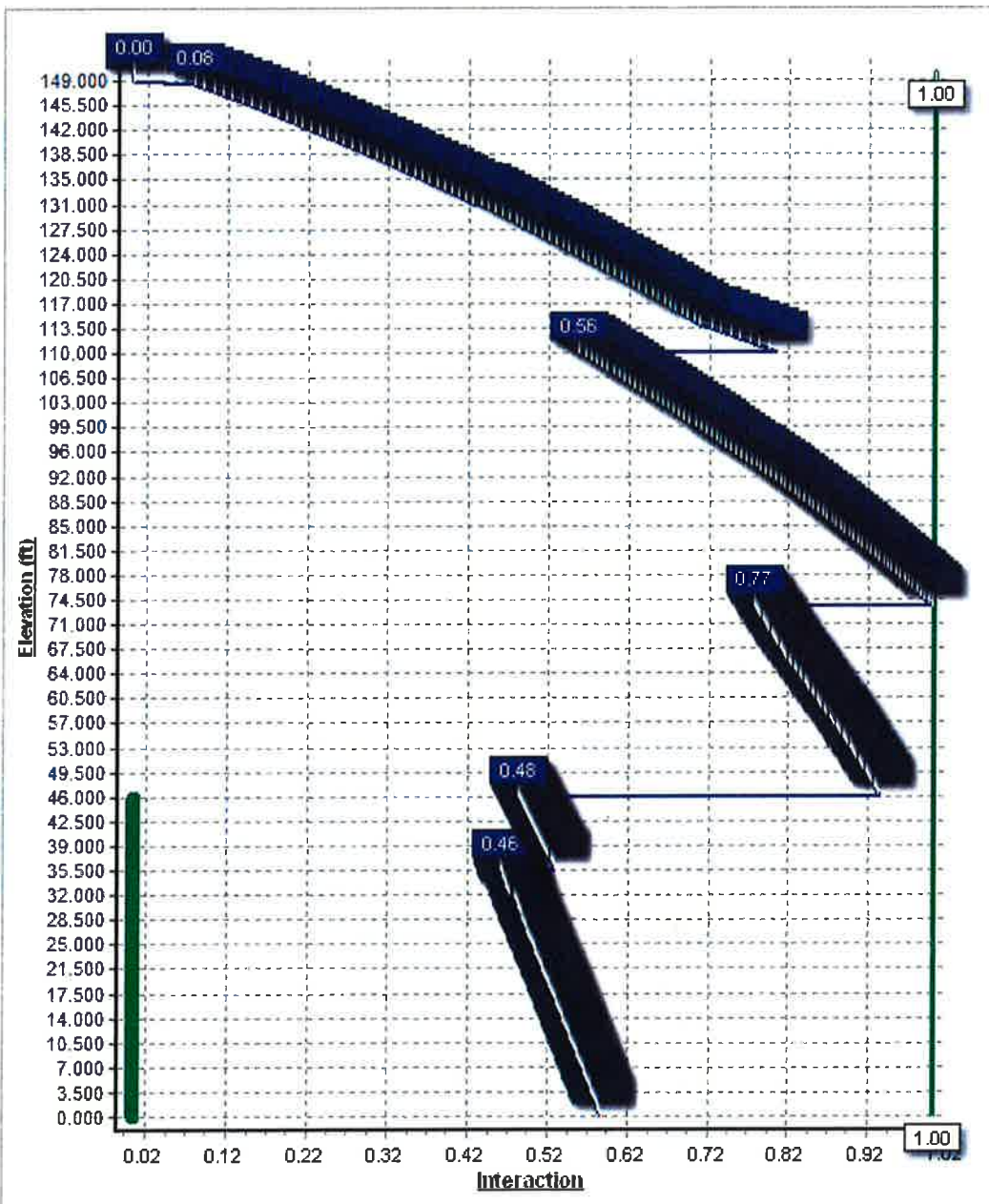
Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
5.000	114.0	1 5/8" Coax	No
5.000	114.0	1 5/8" Hybriflex	No
5.000	149.0	0.39" Fiber Trunk	No
5.000	149.0	0.78" 8 AWG 6	No
5.000	149.0	1 5/8" Coax	No
5.000	149.0	3" Conduit	No
5.000	39.000	1/2" Coax	No
0.000	52.500	#20 Dywidag	Yes

Load Cases	
1.2D + 1.6W	105.00 mph with No Ice
0.9D + 1.6W	105.00 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	2214.18	23.59	29.04
0.9D + 1.6W	2182.67	23.59	22.54
1.2D + 1.0Di + 1.0Wi	457.21	4.47	45.40
1.0D + 1.0W	452.41	4.93	24.71

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
	0.00	0.000	0.000

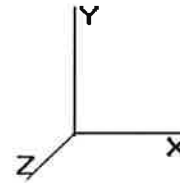




Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:57 AM
 Page: 1



© 2007 - 2015 by ATC IP LLC. All rights reserved.

Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint Len (in)	Weight (lb)	Bottom					Top					Taper (in/ft)		
							Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)		W/t Ratio	D/t Ratio
1-12	35.667	0.3750	65		0.00	5,014	37.38	0.00	44.68	7810.1	24.03	99.68	31.79	35.67	37.93	4778.8	20.04	84.78	0.156706
2-12	42.000	0.3130	65	Slip	50.00	4,244	33.07	31.50	33.01	4521.5	25.63	105.65	26.48	73.50	26.38	2307.0	20.00	84.63	0.156706
3-12	40.000	0.2500	65	Slip	42.00	2,646	27.53	70.00	21.97	2087.5	26.83	110.15	21.26	110.00	16.92	954.1	20.12	85.07	0.156706
4-12	40.000	0.1880	65	Butt	0.00	1,479	21.26	110.00	12.76	723.8	27.63	113.13	15.00	150.00	8.97	251.1	18.70	79.79	0.156706
Shaft Weight						13,383													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice EPAa (sf)	Orientation Factor	Weight (lb)	Ice EPAa (sf)	Orientation Factor	Distance From Face (ft)	Vert Ecc (ft)
149.00	Andrew SBNH-1D6565C	1	60.80	11.440	0.70	324.17	13.102	0.70	0.000	5.000
149.00	Ericsson RRUS-11	6	55.00	3.790	0.50	160.19	4.583	0.50	0.000	5.000
149.00	Flat Platform w/ Handrails	1	2000.00	40.000	1.00	3,423.13	59.812	1.00	0.000	0.000
149.00	KMW AM-X-CD-17-65-00T-	2	59.50	11.310	0.68	306.91	12.968	0.68	0.000	5.000
149.00	Powerwave 7770.00	6	35.00	5.510	0.65	170.06	6.564	0.65	0.000	5.000
149.00	Powerwave LGP21401	6	14.10	1.100	0.50	47.72	1.563	0.50	0.000	5.000
149.00	Powerwave LGP21902	6	5.50	0.270	0.50	19.04	0.472	0.50	0.000	5.000
149.00	Raycap DC6-48-60-18-8F	1	20.00	1.110	1.00	100.51	2.524	1.00	0.000	5.000
114.00	Alcatel-Lucent RRH 2X60-	3	43.00	1.880	0.50	107.71	2.442	0.50	0.000	0.000
114.00	Alcatel-Lucent RRH2X60-	3	55.00	3.350	0.50	157.54	4.572	0.50	0.000	0.000
114.00	Antel BXA-70063/6CF-EDIN-X	3	17.00	7.570	0.66	178.73	8.782	0.66	0.000	0.000
114.00	Antel BXA-70080-4CF-EDIN-X	3	12.00	3.570	0.72	115.41	4.432	0.72	0.000	0.000
114.00	Commscope HBXX-6517DS-	6	40.80	8.530	0.68	318.08	12.394	0.68	0.000	0.000
114.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	0.67	183.16	5.648	0.67	0.000	0.000
114.00	RFS FD9R6004/2C-3L	6	3.10	0.360	0.50	15.70	0.573	0.50	0.000	0.000
114.00	Round T-Arms	3	250.00	8.000	0.67	453.76	14.629	0.67	0.000	0.000
39.00	0.5' Omni	1	5.00	0.060	1.00	11.70	0.222	1.00	0.000	0.000
39.00	Flat Side Arm	1	50.00	2.500	1.00	71.35	3.354	1.00	0.000	0.000
Totals		59	4350.80			12,151.98			Number of Loadings :	18

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
5.00	149.00	(1) 0.39" Fiber Trunk	0.00	N
5.00	149.00	(2) 0.78" 8 AWG 6	0.00	N
5.00	149.00	(12) 1 5/8" Coax	0.00	N
5.00	149.00	(1) 3" Conduit	0.00	N
5.00	114.00	(12) 1 5/8" Coax	0.00	N
5.00	114.00	(1) 1 5/8" Hybriflex	0.00	N
0.00	52.50	(4) #20 Dywidag	8.00	Y
5.00	39.00	(1) 1/2" Coax	0.00	N

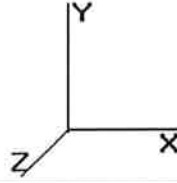
Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	46.00	4	SOL #20 All Thread	80	2.09	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt	No

Pole : 302498
Location : Plainfield CT 6, CT
Height : 150.0 (ft)
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156706 (in/ft)

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

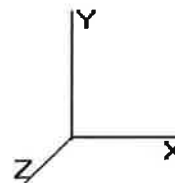
2/10/2015 10:37:57 AM
Page: 2



© 2007 - 2015 by ATC IP LLC. All rights reserved.

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:37:57 AM
 Page: 5

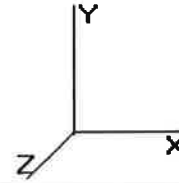
© 2007 - 2015 by ATC IP LLC. All rights reserved.

60.00		0.3130	28.604	28.513	2,912.8	21.81	91.39	80.9	196.7	48.6
60.50		0.3130	28.525	28.434	2,888.7	21.74	91.14	81.0	195.6	48.4
61.00		0.3130	28.447	28.355	2,864.7	21.67	90.88	81.1	194.5	48.3
61.50		0.3130	28.369	28.276	2,840.8	21.61	90.63	81.2	193.5	48.2
62.00		0.3130	28.290	28.197	2,817.1	21.54	90.38	81.2	192.4	48.0
62.50		0.3130	28.212	28.118	2,793.5	21.47	90.13	81.3	191.3	47.9
63.00		0.3130	28.134	28.039	2,770.0	21.40	89.88	81.4	190.2	47.8
63.50		0.3130	28.055	27.960	2,746.7	21.34	89.63	81.4	189.1	47.6
64.00		0.3130	27.977	27.881	2,723.5	21.27	89.38	81.5	188.1	47.5
64.50		0.3130	27.898	27.802	2,700.4	21.20	89.13	81.6	187.0	47.4
65.00		0.3130	27.820	27.723	2,677.4	21.14	88.88	81.7	185.9	47.2
65.50		0.3130	27.742	27.644	2,654.6	21.07	88.63	81.7	184.9	47.1
66.00		0.3130	27.663	27.565	2,631.9	21.00	88.38	81.8	183.8	47.0
66.50		0.3130	27.585	27.486	2,609.4	20.94	88.13	81.9	182.7	46.8
67.00		0.3130	27.507	27.407	2,587.0	20.87	87.88	81.9	181.7	46.7
67.50		0.3130	27.428	27.328	2,564.7	20.80	87.63	81.9	180.6	46.6
68.00		0.3130	27.350	27.249	2,542.5	20.73	87.38	81.9	179.6	46.4
68.50		0.3130	27.272	27.171	2,520.5	20.67	87.13	81.9	178.5	46.3
69.00		0.3130	27.193	27.092	2,498.5	20.60	86.88	81.9	177.5	46.2
69.50		0.3130	27.115	27.013	2,476.8	20.53	86.63	81.9	176.5	46.0
70.00		0.3130	27.037	26.934	2,455.1	20.47	86.38	81.9	175.4	45.9
70.00	Bot - Section 3	0.3130	27.037	26.934	2,455.1	20.47	86.38	81.9	175.4	0.0
70.50		0.3130	26.958	26.855	2,433.6	20.40	86.13	81.9	174.4	83.0
71.00		0.3130	26.880	26.776	2,412.2	20.33	85.88	81.9	173.4	82.8
71.50		0.3130	26.802	26.697	2,390.9	20.26	85.63	81.9	172.3	82.6
72.00		0.3130	26.723	26.618	2,369.7	20.20	85.38	81.9	171.3	82.4
72.50		0.3130	26.645	26.539	2,348.7	20.13	85.13	81.9	170.3	82.1
73.00		0.3130	26.566	26.460	2,327.8	20.06	84.88	81.9	169.3	81.9
73.50		0.3130	26.488	26.381	2,307.0	20.00	84.63	81.9	168.3	81.6
73.50	Top - Section 2	0.2500	26.988	21.524	1,964.1	26.25	107.95	76.1	140.6	0.1
74.00		0.2500	26.910	21.461	1,946.9	26.16	107.64	76.2	139.8	36.5
74.50		0.2500	26.831	21.398	1,929.8	26.08	107.33	76.3	138.9	36.5
75.00		0.2500	26.753	21.335	1,912.8	25.99	107.01	76.4	138.1	36.4
75.50		0.2500	26.675	21.272	1,895.9	25.91	106.70	76.5	137.3	36.2
76.00		0.2500	26.596	21.209	1,879.1	25.83	106.39	76.5	136.5	36.1
76.50		0.2500	26.518	21.146	1,862.4	25.74	106.07	76.6	135.7	36.0
77.00		0.2500	26.440	21.083	1,845.7	25.66	105.76	76.7	134.9	35.9
77.50		0.2500	26.361	21.020	1,829.2	25.57	105.45	76.8	134.1	35.8
78.00		0.2500	26.283	20.956	1,812.8	25.49	105.13	76.9	133.2	35.7
78.50		0.2500	26.205	20.893	1,796.5	25.41	104.82	77.0	132.4	35.6
79.00		0.2500	26.126	20.830	1,780.3	25.32	104.50	77.1	131.6	35.5
79.50		0.2500	26.048	20.767	1,764.1	25.24	104.19	77.2	130.8	35.4
80.00		0.2500	25.969	20.704	1,748.1	25.15	103.88	77.3	130.0	35.3
80.50		0.2500	25.891	20.641	1,732.2	25.07	103.56	77.4	129.2	35.2
81.00		0.2500	25.813	20.578	1,716.4	24.99	103.25	77.5	128.5	35.1
81.50		0.2500	25.734	20.515	1,700.6	24.90	102.94	77.6	127.7	35.0
82.00		0.2500	25.656	20.452	1,685.0	24.82	102.62	77.6	126.9	34.9
82.50		0.2500	25.578	20.389	1,669.4	24.73	102.31	77.7	126.1	34.7
83.00		0.2500	25.499	20.326	1,654.0	24.65	102.00	77.8	125.3	34.6
83.50		0.2500	25.421	20.263	1,638.6	24.57	101.68	77.9	124.5	34.5
84.00		0.2500	25.343	20.200	1,623.4	24.48	101.37	78.0	123.7	34.4
84.50		0.2500	25.264	20.137	1,608.2	24.40	101.06	78.1	123.0	34.3
85.00		0.2500	25.186	20.073	1,593.2	24.31	100.74	78.2	122.2	34.2
85.50		0.2500	25.108	20.010	1,578.2	24.23	100.43	78.3	121.4	34.1
86.00		0.2500	25.029	19.947	1,563.3	24.15	100.12	78.4	120.7	34.0
86.50		0.2500	24.951	19.884	1,548.5	24.06	99.80	78.5	119.9	33.9
87.00		0.2500	24.873	19.821	1,533.8	23.98	99.49	78.6	119.1	33.8
87.50		0.2500	24.794	19.758	1,519.2	23.89	99.18	78.7	118.4	33.7
88.00		0.2500	24.716	19.695	1,504.7	23.81	98.86	78.7	117.6	33.6
88.50		0.2500	24.637	19.632	1,490.3	23.73	98.55	78.8	116.9	33.5
89.00		0.2500	24.559	19.569	1,476.0	23.64	98.24	78.9	116.1	33.3
89.50		0.2500	24.481	19.506	1,461.8	23.56	97.92	79.0	115.4	33.2
90.00		0.2500	24.402	19.443	1,447.7	23.47	97.61	79.1	114.6	33.1
90.50		0.2500	24.324	19.380	1,433.6	23.39	97.30	79.2	113.9	33.0

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:57 AM
 Page: 6



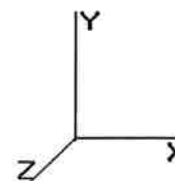
© 2007 - 2015 by ATC IP LLC. All rights reserved.

91.00	0.2500	24.246	19.317	1,419.7	23.31	96.98	79.3	113.1	32.9	
91.50	0.2500	24.167	19.253	1,405.8	23.22	96.67	79.4	112.4	32.8	
92.00	0.2500	24.089	19.190	1,392.0	23.14	96.36	79.5	111.6	32.7	
92.50	0.2500	24.011	19.127	1,378.3	23.06	96.04	79.6	110.9	32.6	
93.00	0.2500	23.932	19.064	1,364.8	22.97	95.73	79.7	110.2	32.5	
93.50	0.2500	23.854	19.001	1,351.3	22.89	95.42	79.8	109.4	32.4	
94.00	0.2500	23.776	18.938	1,337.8	22.80	95.10	79.8	108.7	32.3	
94.50	0.2500	23.697	18.875	1,324.5	22.72	94.79	79.9	108.0	32.2	
95.00	0.2500	23.619	18.812	1,311.3	22.64	94.48	80.0	107.3	32.1	
95.50	0.2500	23.541	18.749	1,298.1	22.55	94.16	80.1	106.5	32.0	
96.00	0.2500	23.462	18.686	1,285.1	22.47	93.85	80.2	105.8	31.8	
96.50	0.2500	23.384	18.623	1,272.1	22.38	93.54	80.3	105.1	31.7	
97.00	0.2500	23.305	18.560	1,259.2	22.30	93.22	80.4	104.4	31.6	
97.50	0.2500	23.227	18.497	1,246.4	22.22	92.91	80.5	103.7	31.5	
98.00	0.2500	23.149	18.434	1,233.7	22.13	92.60	80.6	103.0	31.4	
98.50	0.2500	23.070	18.370	1,221.1	22.05	92.28	80.7	102.3	31.3	
99.00	0.2500	22.992	18.307	1,208.6	21.96	91.97	80.8	101.5	31.2	
99.50	0.2500	22.914	18.244	1,196.1	21.88	91.65	80.9	100.8	31.1	
100.0	0.2500	22.835	18.181	1,183.8	21.80	91.34	80.9	100.1	31.0	
100.5	0.2500	22.757	18.118	1,171.5	21.71	91.03	81.0	99.4	30.9	
101.0	0.2500	22.679	18.055	1,159.3	21.63	90.71	81.1	98.8	30.8	
101.5	0.2500	22.600	17.992	1,147.2	21.54	90.40	81.2	98.1	30.7	
102.0	0.2500	22.522	17.929	1,135.2	21.46	90.09	81.3	97.4	30.6	
102.5	0.2500	22.444	17.866	1,123.2	21.38	89.77	81.4	96.7	30.5	
103.0	0.2500	22.365	17.803	1,111.4	21.29	89.46	81.5	96.0	30.3	
103.5	0.2500	22.287	17.740	1,099.6	21.21	89.15	81.6	95.3	30.2	
104.0	0.2500	22.209	17.677	1,087.9	21.12	88.83	81.7	94.6	30.1	
104.5	0.2500	22.130	17.614	1,076.3	21.04	88.52	81.8	94.0	30.0	
105.0	0.2500	22.052	17.550	1,064.8	20.96	88.21	81.9	93.3	29.9	
105.5	0.2500	21.973	17.487	1,053.3	20.87	87.89	81.9	92.6	29.8	
106.0	0.2500	21.895	17.424	1,042.0	20.79	87.58	81.9	91.9	29.7	
106.5	0.2500	21.817	17.361	1,030.7	20.70	87.27	81.9	91.3	29.6	
107.0	0.2500	21.738	17.298	1,019.5	20.62	86.95	81.9	90.6	29.5	
107.5	0.2500	21.660	17.235	1,008.4	20.54	86.64	81.9	89.9	29.4	
108.0	0.2500	21.582	17.172	997.4	20.45	86.33	81.9	89.3	29.3	
108.5	0.2500	21.503	17.109	986.4	20.37	86.01	81.9	88.6	29.2	
109.0	0.2500	21.425	17.046	975.6	20.28	85.70	81.9	88.0	29.1	
109.5	0.2500	21.347	16.983	964.8	20.20	85.39	81.9	87.3	28.9	
110.0	0.2500	21.268	16.920	954.1	20.12	85.07	81.9	86.7	28.8	
110.0	Top - Section 3	0.2500	21.268	16.920	954.1	20.12	85.07	81.9	86.7	0.0
110.0	Bot - Section 4	0.1880	21.268	12.761	723.8	27.63	113.13	74.6	65.7	
110.5		0.1880	21.190	12.714	715.8	27.52	112.71	74.7	65.3	21.7
111.0		0.1880	21.112	12.666	707.8	27.41	112.30	74.8	64.8	21.6
111.5		0.1880	21.033	12.619	699.9	27.30	111.88	74.9	64.3	21.5
112.0		0.1880	20.955	12.571	692.0	27.19	111.46	75.1	63.8	21.4
112.5		0.1880	20.877	12.524	684.2	27.08	111.05	75.2	63.3	21.3
113.0		0.1880	20.798	12.477	676.5	26.96	110.63	75.3	62.8	21.3
113.5		0.1880	20.720	12.429	668.8	26.85	110.21	75.4	62.4	21.2
114.0		0.1880	20.641	12.382	661.2	26.74	109.80	75.6	61.9	21.1
114.5		0.1880	20.563	12.334	653.6	26.63	109.38	75.7	61.4	21.0
115.0		0.1880	20.485	12.287	646.1	26.52	108.96	75.8	60.9	20.9
115.5		0.1880	20.406	12.239	638.6	26.41	108.54	75.9	60.5	20.9
116.0		0.1880	20.328	12.192	631.2	26.29	108.13	76.0	60.0	20.8
116.5		0.1880	20.250	12.145	623.9	26.18	107.71	76.2	59.5	20.7
117.0		0.1880	20.171	12.097	616.6	26.07	107.29	76.3	59.1	20.6
117.5		0.1880	20.093	12.050	609.4	25.96	106.88	76.4	58.6	20.5
118.0		0.1880	20.015	12.002	602.2	25.85	106.46	76.5	58.1	20.5
118.5		0.1880	19.936	11.955	595.1	25.73	106.04	76.6	57.7	20.4
119.0		0.1880	19.858	11.907	588.0	25.62	105.63	76.8	57.2	20.3
119.5		0.1880	19.780	11.860	581.0	25.51	105.21	76.9	56.7	20.2
120.0		0.1880	19.701	11.813	574.1	25.40	104.79	77.0	56.3	20.1
120.5		0.1880	19.623	11.765	567.2	25.29	104.38	77.1	55.8	20.1
121.0		0.1880	19.545	11.718	560.4	25.18	103.96	77.3	55.4	20.0
121.5		0.1880	19.466	11.670	553.6	25.06	103.54	77.4	54.9	19.9

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:57 AM
 Page: 7



© 2007 - 2015 by ATC IP LLC. All rights reserved.

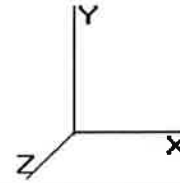
122.0	0.1880	19.388	11.623	546.9	24.95	103.13	77.5	54.5	19.8
122.5	0.1880	19.309	11.575	540.2	24.84	102.71	77.6	54.0	19.7
123.0	0.1880	19.231	11.528	533.6	24.73	102.29	77.7	53.6	19.7
123.5	0.1880	19.153	11.481	527.0	24.62	101.88	77.9	53.2	19.6
124.0	0.1880	19.074	11.433	520.5	24.51	101.46	78.0	52.7	19.5
124.5	0.1880	18.996	11.386	514.1	24.39	101.04	78.1	52.3	19.4
125.0	0.1880	18.918	11.338	507.7	24.28	100.63	78.2	51.8	19.3
125.5	0.1880	18.839	11.291	501.3	24.17	100.21	78.4	51.4	19.3
126.0	0.1880	18.761	11.243	495.0	24.06	99.79	78.5	51.0	19.2
126.5	0.1880	18.683	11.196	488.8	23.95	99.38	78.6	50.5	19.1
127.0	0.1880	18.604	11.148	482.6	23.84	98.96	78.7	50.1	19.0
127.5	0.1880	18.526	11.101	476.5	23.72	98.54	78.8	49.7	18.9
128.0	0.1880	18.448	11.054	470.4	23.61	98.13	79.0	49.3	18.8
128.5	0.1880	18.369	11.006	464.4	23.50	97.71	79.1	48.8	18.8
129.0	0.1880	18.291	10.959	458.4	23.39	97.29	79.2	48.4	18.7
129.5	0.1880	18.213	10.911	452.5	23.28	96.88	79.3	48.0	18.6
130.0	0.1880	18.134	10.864	446.6	23.17	96.46	79.4	47.6	18.5
130.5	0.1880	18.056	10.816	440.8	23.05	96.04	79.6	47.2	18.4
131.0	0.1880	17.977	10.769	435.0	22.94	95.62	79.7	46.7	18.4
131.5	0.1880	17.899	10.722	429.3	22.83	95.21	79.8	46.3	18.3
132.0	0.1880	17.821	10.674	423.6	22.72	94.79	79.9	45.9	18.2
132.5	0.1880	17.742	10.627	418.0	22.61	94.37	80.1	45.5	18.1
133.0	0.1880	17.664	10.579	412.4	22.50	93.96	80.2	45.1	18.0
133.5	0.1880	17.586	10.532	406.9	22.38	93.54	80.3	44.7	18.0
134.0	0.1880	17.507	10.484	401.4	22.27	93.12	80.4	44.3	17.9
134.5	0.1880	17.429	10.437	396.0	22.16	92.71	80.5	43.9	17.8
135.0	0.1880	17.351	10.390	390.6	22.05	92.29	80.7	43.5	17.7
135.5	0.1880	17.272	10.342	385.3	21.94	91.87	80.8	43.1	17.6
136.0	0.1880	17.194	10.295	380.0	21.83	91.46	80.9	42.7	17.6
136.5	0.1880	17.116	10.247	374.8	21.71	91.04	81.0	42.3	17.5
137.0	0.1880	17.037	10.200	369.6	21.60	90.62	81.2	41.9	17.4
137.5	0.1880	16.959	10.152	364.5	21.49	90.21	81.3	41.5	17.3
138.0	0.1880	16.881	10.105	359.4	21.38	89.79	81.4	41.1	17.2
138.5	0.1880	16.802	10.058	354.4	21.27	89.37	81.5	40.7	17.2
139.0	0.1880	16.724	10.010	349.4	21.16	88.96	81.6	40.4	17.1
139.5	0.1880	16.645	9.963	344.4	21.04	88.54	81.8	40.0	17.0
140.0	0.1880	16.567	9.915	339.5	20.93	88.12	81.9	39.6	16.9
140.5	0.1880	16.489	9.868	334.7	20.82	87.71	81.9	39.2	16.8
141.0	0.1880	16.410	9.820	329.9	20.71	87.29	81.9	38.8	16.7
141.5	0.1880	16.332	9.773	325.1	20.60	86.87	81.9	38.5	16.7
142.0	0.1880	16.254	9.726	320.4	20.49	86.46	81.9	38.1	16.6
142.5	0.1880	16.175	9.678	315.7	20.37	86.04	81.9	37.7	16.5
143.0	0.1880	16.097	9.631	311.1	20.26	85.62	81.9	37.3	16.4
143.5	0.1880	16.019	9.583	306.5	20.15	85.21	81.9	37.0	16.3
144.0	0.1880	15.940	9.536	302.0	20.04	84.79	81.9	36.6	16.3
144.5	0.1880	15.862	9.488	297.5	19.93	84.37	81.9	36.2	16.2
145.0	0.1880	15.784	9.441	293.1	19.82	83.96	81.9	35.9	16.1
145.5	0.1880	15.705	9.394	288.7	19.70	83.54	81.9	35.5	16.0
146.0	0.1880	15.627	9.346	284.3	19.59	83.12	81.9	35.2	15.9
146.5	0.1880	15.549	9.299	280.0	19.48	82.70	81.9	34.8	15.9
147.0	0.1880	15.470	9.251	275.8	19.37	82.29	81.9	34.4	15.8
147.5	0.1880	15.392	9.204	271.6	19.26	81.87	81.9	34.1	15.7
148.0	0.1880	15.313	9.156	267.4	19.15	81.45	81.9	33.7	15.6
148.5	0.1880	15.235	9.109	263.2	19.03	81.04	81.9	33.4	15.5
149.0	0.1880	15.157	9.061	259.2	18.92	80.62	81.9	33.0	15.5
149.5	0.1880	15.078	9.014	255.1	18.81	80.20	81.9	32.7	15.4
150.0	0.1880	15.000	8.967	251.1	18.70	79.79	81.9	32.3	15.3

13,382.9

3,072.8

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:37:58 AM
 Page: 13

© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W 105.00 mph with No Ice 45 Iterations
Gust Response Factor : 1.10 **Wind Importance Factor :** 1.00
Dead Load Factor : 1.20
Wind Load Factor : 1.60

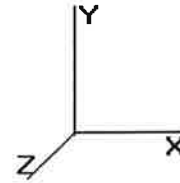
137.0	1.00	1.08	28.991	31.89	160.48	1.000	0.000	0.50	0.737	0.74	37.6	0.0	20.9	
137.5	1.00	1.08	29.021	31.92	159.82	1.000	0.000	0.50	0.733	0.73	37.5	0.0	20.8	
138.0	1.00	1.08	29.051	31.95	159.17	1.000	0.000	0.50	0.730	0.73	37.3	0.0	20.7	
138.5	1.00	1.08	29.081	31.99	158.51	1.000	0.000	0.50	0.726	0.73	37.2	0.0	20.6	
139.0	1.00	1.08	29.111	32.02	157.85	1.000	0.000	0.50	0.723	0.72	37.0	0.0	20.5	
139.5	1.00	1.08	29.141	32.05	157.19	1.000	0.000	0.50	0.720	0.72	36.9	0.0	20.4	
140.0	1.00	1.08	29.171	32.08	156.53	1.000	0.000	0.50	0.716	0.72	36.8	0.0	20.3	
140.5	1.00	1.08	29.201	32.12	155.87	1.000	0.000	0.50	0.713	0.71	36.6	0.0	20.2	
141.0	1.00	1.09	29.230	32.15	155.21	1.000	0.000	0.50	0.710	0.71	36.5	0.0	20.1	
141.5	1.00	1.09	29.260	32.18	154.55	1.000	0.000	0.50	0.706	0.71	36.4	0.0	20.0	
142.0	1.00	1.09	29.289	32.21	153.88	1.000	0.000	0.50	0.703	0.70	36.2	0.0	19.9	
142.5	1.00	1.09	29.319	32.25	153.22	1.000	0.000	0.50	0.699	0.70	36.1	0.0	19.8	
143.0	1.00	1.09	29.348	32.28	152.55	1.000	0.000	0.50	0.696	0.70	36.0	0.0	19.7	
143.5	1.00	1.09	29.378	32.31	151.88	1.000	0.000	0.50	0.693	0.69	35.8	0.0	19.6	
144.0	1.00	1.09	29.407	32.34	151.22	1.000	0.000	0.50	0.689	0.69	35.7	0.0	19.5	
144.5	1.00	1.09	29.436	32.37	150.55	1.000	0.000	0.50	0.686	0.69	35.5	0.0	19.4	
145.0	1.00	1.09	29.465	32.41	149.88	1.000	0.000	0.50	0.683	0.68	35.4	0.0	19.3	
145.5	1.00	1.10	29.494	32.44	149.21	1.000	0.000	0.50	0.679	0.68	35.3	0.0	19.2	
146.0	1.00	1.10	29.523	32.47	148.54	1.000	0.000	0.50	0.676	0.68	35.1	0.0	19.1	
146.5	1.00	1.10	29.552	32.50	147.86	1.000	0.000	0.50	0.672	0.67	35.0	0.0	19.0	
147.0	1.00	1.10	29.581	32.53	147.19	1.000	0.000	0.50	0.669	0.67	34.8	0.0	18.9	
147.5	1.00	1.10	29.609	32.57	146.52	1.000	0.000	0.50	0.666	0.67	34.7	0.0	18.8	
148.0	1.00	1.10	29.638	32.60	145.84	1.000	0.000	0.50	0.662	0.66	34.5	0.0	18.7	
148.5	1.00	1.10	29.666	32.63	145.16	1.000	0.000	0.50	0.659	0.66	34.4	0.0	18.6	
149.0	Appertunance(s)	1.00	1.10	29.695	32.66	144.49	1.000	0.000	0.50	0.655	0.66	34.3	0.0	18.5
149.5		1.00	1.10	29.723	32.69	143.81	1.000	0.000	0.50	0.652	0.65	34.1	0.0	18.5
150.0		1.00	1.11	29.752	32.72	143.13	1.000	0.000	0.50	0.649	0.65	34.0	0.0	18.4
							Totals:	150.00			14,917.2	0.0	19,132.2	

* = Cf Adjusted By Linear Load Ra Effect

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:58 AM
 Page: 14



© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W

105.00 mph with No Ice

45 Iterations

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

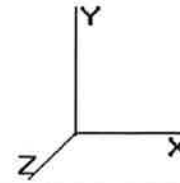
Wind Importance Factor : 1.00

Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
39.00	0.5' Omni	1	20.247	22.272	1.00	1.00	0.06	0.000	0.000	2.14	0.00	0.00	6.00
39.00	Flat Side Arm	1	20.247	22.272	1.00	1.00	2.50	0.000	0.000	89.09	0.00	0.00	60.00
114.0	RFS DB-T1-6Z-8AB-0Z	1	27.508	30.259	0.67	0.80	2.57	0.000	0.000	124.56	0.00	0.00	52.80
114.0	Alcatel-Lucent RRH 2	3	27.508	30.259	0.50	0.80	2.26	0.000	0.000	109.22	0.00	0.00	154.80
114.0	Alcatel-Lucent RRH2X	3	27.508	30.259	0.50	0.80	4.02	0.000	0.000	194.62	0.00	0.00	198.00
114.0	Commscope HBXX-	6	27.508	30.259	0.68	0.80	27.84	0.000	0.000	1,347.94	0.00	0.00	293.76
114.0	Antel BXA-70063/6CF-	3	27.508	30.259	0.66	0.80	11.99	0.000	0.000	580.53	0.00	0.00	61.20
114.0	Round T-Arms	3	27.508	30.259	0.67	0.75	12.06	0.000	0.000	583.87	0.00	0.00	900.00
114.0	Antel BXA-70080-4CF-	3	27.508	30.259	0.72	0.80	6.17	0.000	0.000	298.66	0.00	0.00	43.20
114.0	RFS FD9R6004/2C-3L	6	27.508	30.259	0.50	0.80	0.86	0.000	0.000	41.83	0.00	0.00	22.32
149.0	Powerwave LGP21401	6	29.976	32.974	0.50	0.75	2.48	0.000	5.000	130.58	0.00	652.88	101.52
149.0	Powerwave LGP21902	6	29.976	32.974	0.50	0.75	0.61	0.000	5.000	32.05	0.00	160.25	39.60
149.0	Flat Platform w/ Han	1	29.695	32.664	1.00	1.00	40.00	0.000	0.000	2,090.52	0.00	0.00	2,400.00
149.0	KMW AM-X-CD-17-65-	2	29.976	32.974	0.68	0.75	11.54	0.000	5.000	608.63	0.00	3,043.15	142.80
149.0	Andrew SBNH-	1	29.976	32.974	0.70	0.75	6.01	0.000	5.000	316.87	0.00	1,584.33	72.96
149.0	Powerwave 7770.00	6	29.976	32.974	0.65	0.75	16.12	0.000	5.000	850.29	0.00	4,251.46	252.00
149.0	Ericsson RRUS-11	6	29.976	32.974	0.50	0.75	8.53	0.000	5.000	449.90	0.00	2,249.48	396.00
149.0	Raycap DC6-48-60-18-	1	29.976	32.974	1.00	0.75	0.83	0.000	5.000	43.92	0.00	219.61	24.00
										7,895.23			5,220.96

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:37:58 AM
 Page: 15

© 2007 - 2015 by ATC IP LLC. All rights reserved.

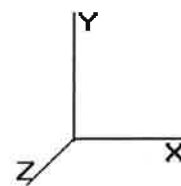
Load Case: 1.2D + 1.6W 105.00 mph with No Ice 45 Iterations
Gust Response Factor: 1.10 **Wind Importance Factor:** 1.00
Dead Load Factor: 1.20
Wind Load Factor: 1.60

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	FX (lb)	Dead Load (lb)
0.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.207	0.000	7.22	0.00
1.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.207	0.000	7.22	0.00
1.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.208	0.000	7.22	0.00
2.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.208	0.000	7.22	0.00
2.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.209	0.000	7.22	0.00
3.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.209	0.000	7.22	0.00
3.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.210	0.000	7.22	0.00
4.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.210	0.000	7.22	0.00
4.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.210	0.000	7.22	0.00
5.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.211	0.000	7.22	0.00
5.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.211	0.000	7.22	0.00
6.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.212	0.000	7.22	0.00
6.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.212	0.000	7.22	0.00
7.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.213	0.000	7.22	0.00
7.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.213	0.000	7.22	0.00
8.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.214	0.000	7.22	0.00
8.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.214	0.000	7.22	0.00
9.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.215	0.000	7.22	0.00
9.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.215	0.000	7.22	0.00
10.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.216	0.000	7.22	0.00
10.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.216	0.000	7.22	0.00
11.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.216	0.000	7.22	0.00
11.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.217	0.000	7.22	0.00
12.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.217	0.000	7.22	0.00
12.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.218	0.000	7.22	0.00
13.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.218	0.000	7.22	0.00
13.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.219	0.000	7.22	0.00
14.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.219	0.000	7.22	0.00
14.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.220	0.000	7.22	0.00
15.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.220	0.000	7.22	0.00
15.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.221	0.000	7.22	0.00
16.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.221	0.000	7.22	0.00
16.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.222	0.000	7.22	0.00
17.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.222	0.000	7.22	0.00
17.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.223	0.000	7.22	0.00
18.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.223	0.000	7.22	0.00
18.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.224	0.000	7.22	0.00
19.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.224	0.000	7.22	0.00
19.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.225	0.000	7.22	0.00
20.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.225	0.000	7.22	0.00
20.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.226	0.000	7.22	0.00
21.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.226	0.000	7.22	0.00
21.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.227	0.000	7.22	0.00
22.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.227	0.000	7.22	0.00
22.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.228	0.000	7.22	0.00
23.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.229	0.000	7.22	0.00
23.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.229	0.000	7.22	0.00
24.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.230	0.000	7.22	0.00
24.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.230	0.000	7.22	0.00
25.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.231	0.000	7.22	0.00
25.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.231	0.000	7.22	0.00

Pole : 302498
Location : Plainfield CT 6, CT
Height : 150.0 (ft)
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156706 (in/ft)

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



2/10/2015 10:37:58 AM
Page: 17

© 2007 - 2015 by ATC IP LLC. All rights reserved.

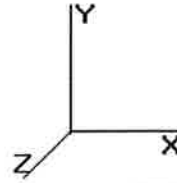
Load Case: 1.2D + 1.6W	105.00 mph with No Ice	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

Totals: 773.10 0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:58 AM
 Page: 18



© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W 105.00 mph with No Ice 45 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

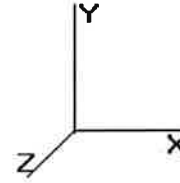
Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
0.50	71.07	124.53	0.00	0.00
1.00	70.94	124.34	0.00	0.00
1.50	70.80	124.15	0.00	0.00
2.00	70.67	123.95	0.00	0.00
2.50	70.53	123.76	0.00	0.00
3.00	70.40	123.57	0.00	0.00
3.50	70.27	123.37	0.00	0.00
4.00	70.13	123.18	0.00	0.00
4.50	70.00	122.99	0.00	0.00
5.00	69.86	122.79	0.00	0.00
5.50	69.73	140.57	0.00	0.00
6.00	69.60	140.38	0.00	0.00
6.50	69.46	140.19	0.00	0.00
7.00	69.33	140.00	0.00	0.00
7.50	69.19	139.80	0.00	0.00
8.00	69.06	139.61	0.00	0.00
8.50	68.93	139.42	0.00	0.00
9.00	68.79	139.22	0.00	0.00
9.50	68.66	139.03	0.00	0.00
10.00	68.52	138.84	0.00	0.00
10.50	68.39	138.64	0.00	0.00
11.00	68.26	138.45	0.00	0.00
11.50	68.12	138.26	0.00	0.00
12.00	67.99	138.06	0.00	0.00
12.50	67.85	137.87	0.00	0.00
13.00	67.72	137.68	0.00	0.00
13.50	67.59	137.48	0.00	0.00
14.00	67.45	137.29	0.00	0.00
14.50	67.32	137.10	0.00	0.00
15.00	67.18	136.90	0.00	0.00
15.50	67.05	136.71	0.00	0.00
16.00	66.92	136.52	0.00	0.00
16.50	66.78	136.33	0.00	0.00
17.00	66.65	136.13	0.00	0.00
17.50	66.51	135.94	0.00	0.00
18.00	66.38	135.75	0.00	0.00
18.50	66.25	135.55	0.00	0.00
19.00	66.11	135.36	0.00	0.00
19.50	65.98	135.17	0.00	0.00
20.00	65.84	134.97	0.00	0.00
20.50	65.71	134.78	0.00	0.00
21.00	65.58	134.59	0.00	0.00
21.50	65.44	134.39	0.00	0.00
22.00	65.31	134.20	0.00	0.00
22.50	65.17	134.01	0.00	0.00
23.00	65.04	133.81	0.00	0.00
23.50	64.91	133.62	0.00	0.00
24.00	64.77	133.43	0.00	0.00
24.50	64.64	133.23	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:58 AM
 Page: 19



© 2007 - 2015 by ATC IP LLC. All rights reserved.

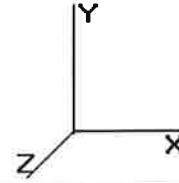
Load Case: 1.2D + 1.6W	105.00 mph with No Ice	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

25.00	64.50	133.04	0.00	0.00
25.50	64.37	132.85	0.00	0.00
26.00	64.24	132.66	0.00	0.00
26.50	64.10	132.46	0.00	0.00
27.00	63.97	132.27	0.00	0.00
27.50	63.84	132.08	0.00	0.00
28.00	63.70	131.88	0.00	0.00
28.50	63.57	131.69	0.00	0.00
29.00	63.43	131.50	0.00	0.00
29.50	63.30	131.30	0.00	0.00
30.00	63.22	131.11	0.00	0.00
30.50	63.36	130.92	0.00	0.00
31.00	63.51	130.72	0.00	0.00
31.50	63.64	130.53	0.00	0.00
31.50	0.04	0.09	0.00	0.00
32.00	64.83	197.53	0.00	0.00
32.50	65.00	197.31	0.00	0.00
33.00	65.13	196.95	0.00	0.00
33.50	65.26	196.60	0.00	0.00
34.00	65.38	196.24	0.00	0.00
34.50	65.50	195.89	0.00	0.00
35.00	65.62	195.53	0.00	0.00
35.50	65.73	195.18	0.00	0.00
35.67	21.95	65.11	0.00	0.00
36.00	43.83	78.18	0.00	0.00
36.50	65.94	117.25	0.00	0.00
37.00	66.04	117.09	0.00	0.00
37.50	66.13	116.92	0.00	0.00
38.00	66.23	116.76	0.00	0.00
38.50	66.32	116.60	0.00	0.00
39.00	157.63	182.44	0.00	0.00
39.50	66.49	116.19	0.00	0.00
40.00	66.57	116.03	0.00	0.00
40.50	66.64	115.87	0.00	0.00
41.00	66.72	115.71	0.00	0.00
41.50	66.79	115.54	0.00	0.00
42.00	66.86	115.38	0.00	0.00
42.50	66.92	115.22	0.00	0.00
43.00	66.99	115.06	0.00	0.00
43.50	67.05	114.90	0.00	0.00
44.00	67.10	114.74	0.00	0.00
44.50	67.16	114.58	0.00	0.00
45.00	67.21	114.42	0.00	0.00
45.50	67.26	114.25	0.00	0.00
46.00	67.31	114.09	0.00	0.00
46.50	67.35	80.53	0.00	0.00
47.00	67.39	80.37	0.00	0.00
47.50	67.43	80.21	0.00	0.00
48.00	67.47	80.05	0.00	0.00
48.50	67.50	79.89	0.00	0.00
49.00	67.54	79.73	0.00	0.00
49.50	67.57	79.56	0.00	0.00
50.00	67.59	79.40	0.00	0.00
50.50	67.62	79.24	0.00	0.00
51.00	67.64	79.08	0.00	0.00
51.50	67.66	78.92	0.00	0.00
52.00	67.68	78.76	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:58 AM
 Page: 20



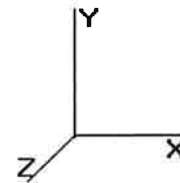
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W	105.00 mph with No Ice	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

52.50	67.70	78.60	0.00	0.00
53.00	49.90	78.44	0.00	0.00
53.50	49.90	78.28	0.00	0.00
54.00	49.90	78.11	0.00	0.00
54.50	49.90	77.95	0.00	0.00
55.00	49.90	77.79	0.00	0.00
55.50	49.90	77.63	0.00	0.00
56.00	49.89	77.47	0.00	0.00
56.50	49.88	77.31	0.00	0.00
57.00	49.88	77.15	0.00	0.00
57.50	49.87	76.99	0.00	0.00
58.00	49.85	76.82	0.00	0.00
58.50	49.84	76.66	0.00	0.00
59.00	49.83	76.50	0.00	0.00
59.50	49.81	76.34	0.00	0.00
60.00	49.80	76.18	0.00	0.00
60.50	49.78	76.02	0.00	0.00
61.00	49.76	75.86	0.00	0.00
61.50	49.74	75.70	0.00	0.00
62.00	49.71	75.53	0.00	0.00
62.50	49.69	75.37	0.00	0.00
63.00	49.67	75.21	0.00	0.00
63.50	49.64	75.05	0.00	0.00
64.00	49.61	74.89	0.00	0.00
64.50	49.58	74.73	0.00	0.00
65.00	49.55	74.57	0.00	0.00
65.50	49.52	74.41	0.00	0.00
66.00	49.49	74.24	0.00	0.00
66.50	49.46	74.08	0.00	0.00
67.00	49.42	73.92	0.00	0.00
67.50	49.39	73.76	0.00	0.00
68.00	49.35	73.60	0.00	0.00
68.50	49.31	73.44	0.00	0.00
69.00	49.27	73.28	0.00	0.00
69.50	49.23	73.12	0.00	0.00
70.00	49.19	72.95	0.00	0.00
70.00	0.03	0.05	0.00	0.00
70.50	50.02	117.50	0.00	0.00
71.00	50.02	117.29	0.00	0.00
71.50	49.97	117.00	0.00	0.00
72.00	49.93	116.71	0.00	0.00
72.50	49.88	116.42	0.00	0.00
73.00	49.84	116.13	0.00	0.00
73.50	49.79	115.84	0.00	0.00
73.50	0.03	0.08	0.00	0.00
74.00	49.71	61.72	0.00	0.00
74.50	49.69	61.64	0.00	0.00
75.00	49.64	61.51	0.00	0.00
75.50	49.59	61.38	0.00	0.00
76.00	49.54	61.25	0.00	0.00
76.50	49.49	61.12	0.00	0.00
77.00	49.43	60.99	0.00	0.00
77.50	49.38	60.86	0.00	0.00
78.00	49.32	60.74	0.00	0.00
78.50	49.27	60.61	0.00	0.00
79.00	49.21	60.48	0.00	0.00
79.50	49.15	60.35	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:37:58 AM
 Page: 21

© 2007 - 2015 by ATC IP LLC. All rights reserved.

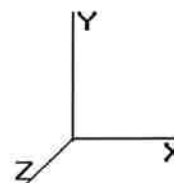
Load Case: 1.2D + 1.6W	105.00 mph with No Ice	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

80.00	49.09	60.22	0.00	0.00
80.50	49.03	60.09	0.00	0.00
81.00	48.97	59.96	0.00	0.00
81.50	48.90	59.83	0.00	0.00
82.00	48.84	59.70	0.00	0.00
82.50	48.78	59.58	0.00	0.00
83.00	48.71	59.45	0.00	0.00
83.50	48.65	59.32	0.00	0.00
84.00	48.58	59.19	0.00	0.00
84.50	48.51	59.06	0.00	0.00
85.00	48.44	58.93	0.00	0.00
85.50	48.37	58.80	0.00	0.00
86.00	48.30	58.67	0.00	0.00
86.50	48.23	58.55	0.00	0.00
87.00	48.16	58.42	0.00	0.00
87.50	48.09	58.29	0.00	0.00
88.00	48.01	58.16	0.00	0.00
88.50	47.94	58.03	0.00	0.00
89.00	47.86	57.90	0.00	0.00
89.50	47.79	57.77	0.00	0.00
90.00	47.71	57.64	0.00	0.00
90.50	47.63	57.52	0.00	0.00
91.00	47.55	57.39	0.00	0.00
91.50	47.48	57.26	0.00	0.00
92.00	47.40	57.13	0.00	0.00
92.50	47.31	57.00	0.00	0.00
93.00	47.23	56.87	0.00	0.00
93.50	47.15	56.74	0.00	0.00
94.00	47.07	56.61	0.00	0.00
94.50	46.98	56.49	0.00	0.00
95.00	46.90	56.36	0.00	0.00
95.50	46.81	56.23	0.00	0.00
96.00	46.73	56.10	0.00	0.00
96.50	46.64	55.97	0.00	0.00
97.00	46.56	55.84	0.00	0.00
97.50	46.47	55.71	0.00	0.00
98.00	46.38	55.58	0.00	0.00
98.50	46.29	55.46	0.00	0.00
99.00	46.20	55.33	0.00	0.00
99.50	46.11	55.20	0.00	0.00
100.0	46.02	55.07	0.00	0.00
100.5	45.92	54.94	0.00	0.00
101.0	45.83	54.81	0.00	0.00
101.5	45.74	54.68	0.00	0.00
102.0	45.64	54.55	0.00	0.00
102.5	45.55	54.43	0.00	0.00
103.0	45.45	54.30	0.00	0.00
103.5	45.36	54.17	0.00	0.00
104.0	45.26	54.04	0.00	0.00
104.5	45.16	53.91	0.00	0.00
105.0	45.06	53.78	0.00	0.00
105.5	44.96	53.65	0.00	0.00
106.0	44.87	53.52	0.00	0.00
106.5	44.77	53.39	0.00	0.00
107.0	44.66	53.27	0.00	0.00
107.5	44.56	53.14	0.00	0.00
108.0	44.46	53.01	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:58 AM
 Page: 22



© 2007 - 2015 by ATC IP LLC. All rights reserved.

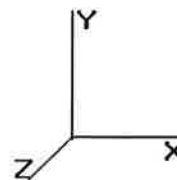
Load Case: 1.2D + 1.6W 105.00 mph with No Ice 45 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

108.5	44.36	52.88	0.00	0.00
109.0	44.26	52.75	0.00	0.00
109.5	44.15	52.62	0.00	0.00
110.0	44.05	52.49	0.00	0.00
110.0	0.03	0.04	0.00	0.00
110.5	43.91	43.86	0.00	0.00
111.0	43.84	43.79	0.00	0.00
111.5	43.73	43.70	0.00	0.00
112.0	43.62	43.60	0.00	0.00
112.5	43.52	43.50	0.00	0.00
113.0	43.41	43.41	0.00	0.00
113.5	43.30	43.31	0.00	0.00
114.0	3,324.44	1,769.29	0.00	0.00
114.5	43.08	36.43	0.00	0.00
115.0	42.97	36.34	0.00	0.00
115.5	42.86	36.24	0.00	0.00
116.0	42.75	36.14	0.00	0.00
116.5	42.64	36.04	0.00	0.00
117.0	42.52	35.95	0.00	0.00
117.5	42.41	35.85	0.00	0.00
118.0	42.30	35.75	0.00	0.00
118.5	42.18	35.66	0.00	0.00
119.0	42.07	35.56	0.00	0.00
119.5	41.95	35.46	0.00	0.00
120.0	41.83	35.37	0.00	0.00
120.5	41.72	35.27	0.00	0.00
121.0	41.60	35.17	0.00	0.00
121.5	41.48	35.08	0.00	0.00
122.0	41.37	34.98	0.00	0.00
122.5	41.25	34.88	0.00	0.00
123.0	41.13	34.79	0.00	0.00
123.5	41.01	34.69	0.00	0.00
124.0	40.89	34.59	0.00	0.00
124.5	40.77	34.50	0.00	0.00
125.0	40.65	34.40	0.00	0.00
125.5	40.52	34.30	0.00	0.00
126.0	40.40	34.20	0.00	0.00
126.5	40.28	34.11	0.00	0.00
127.0	40.16	34.01	0.00	0.00
127.5	40.03	33.91	0.00	0.00
128.0	39.91	33.82	0.00	0.00
128.5	39.78	33.72	0.00	0.00
129.0	39.66	33.62	0.00	0.00
129.5	39.53	33.53	0.00	0.00
130.0	39.40	33.43	0.00	0.00
130.5	39.28	33.33	0.00	0.00
131.0	39.15	33.24	0.00	0.00
131.5	39.02	33.14	0.00	0.00
132.0	38.89	33.04	0.00	0.00
132.5	38.77	32.95	0.00	0.00
133.0	38.64	32.85	0.00	0.00
133.5	38.51	32.75	0.00	0.00
134.0	38.38	32.66	0.00	0.00
134.5	38.25	32.56	0.00	0.00
135.0	38.11	32.46	0.00	0.00
135.5	37.98	32.36	0.00	0.00
136.0	37.85	32.27	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:58 AM
 Page: 23



© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W	105.00 mph with No Ice	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

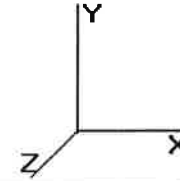
136.5	37.72	32.17	0.00	0.00
137.0	37.59	32.07	0.00	0.00
137.5	37.45	31.98	0.00	0.00
138.0	37.32	31.88	0.00	0.00
138.5	37.18	31.78	0.00	0.00
139.0	37.05	31.69	0.00	0.00
139.5	36.91	31.59	0.00	0.00
140.0	36.78	31.49	0.00	0.00
140.5	36.64	31.40	0.00	0.00
141.0	36.50	31.30	0.00	0.00
141.5	36.37	31.20	0.00	0.00
142.0	36.23	31.11	0.00	0.00
142.5	36.09	31.01	0.00	0.00
143.0	35.95	30.91	0.00	0.00
143.5	35.81	30.82	0.00	0.00
144.0	35.68	30.72	0.00	0.00
144.5	35.54	30.62	0.00	0.00
145.0	35.40	30.52	0.00	0.00
145.5	35.25	30.43	0.00	0.00
146.0	35.11	30.33	0.00	0.00
146.5	34.97	30.23	0.00	0.00
147.0	34.83	30.14	0.00	0.00
147.5	34.69	30.04	0.00	0.00
148.0	34.55	29.94	0.00	0.00
148.5	34.40	29.85	0.00	0.00
149.0	4,557.02	3,458.63	0.00	12,161.17
149.5	34.11	18.45	0.00	0.00
150.0	33.97	18.36	0.00	0.00
Totals:	23,585.52	29,042.21	0.00	12,161.17

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:37:58 AM

Page : 24



© 2007 - 2015 by ATC IP LLC. All rights reserved.

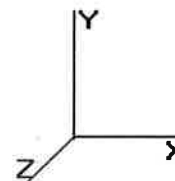
Load Case: 1.2D + 1.6W	105.00 mph with No Ice	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

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	-29.04	-23.59	0.00	-2,214.18	0.00	2,214.18	3,157.17	1,578.58	4,812.28	2,376.61	0.00	0.00	0.585
0.50	-28.90	-23.53	0.00	-2,202.38	0.00	2,202.38	3,152.93	1,576.47	4,795.55	2,368.34	0.00	-0.02	0.583
1.00	-28.77	-23.47	0.00	-2,190.62	0.00	2,190.62	3,148.69	1,574.34	4,778.83	2,360.09	0.01	-0.05	0.581
1.50	-28.63	-23.42	0.00	-2,178.88	0.00	2,178.88	3,144.43	1,572.22	4,762.12	2,351.83	0.01	-0.07	0.580
2.00	-28.50	-23.36	0.00	-2,167.17	0.00	2,167.17	3,140.17	1,570.08	4,745.43	2,343.59	0.02	-0.10	0.578
2.50	-28.36	-23.30	0.00	-2,155.49	0.00	2,155.49	3,135.89	1,567.94	4,728.74	2,335.35	0.03	-0.12	0.576
3.00	-28.23	-23.24	0.00	-2,143.85	0.00	2,143.85	3,131.60	1,565.80	4,712.07	2,327.11	0.05	-0.15	0.575
3.50	-28.10	-23.18	0.00	-2,132.23	0.00	2,132.23	3,127.31	1,563.65	4,695.41	2,318.89	0.07	-0.17	0.573
4.00	-27.96	-23.12	0.00	-2,120.63	0.00	2,120.63	3,123.00	1,561.50	4,678.76	2,310.67	0.09	-0.20	0.571
4.50	-27.83	-23.07	0.00	-2,109.07	0.00	2,109.07	3,118.68	1,559.34	4,662.13	2,302.45	0.11	-0.22	0.569
5.00	-27.70	-23.01	0.00	-2,097.54	0.00	2,097.54	3,114.35	1,557.18	4,645.51	2,294.24	0.13	-0.25	0.568
5.50	-27.55	-22.95	0.00	-2,086.04	0.00	2,086.04	3,110.01	1,555.01	4,628.90	2,286.04	0.16	-0.27	0.566
6.00	-27.40	-22.89	0.00	-2,074.56	0.00	2,074.56	3,105.67	1,552.83	4,612.30	2,277.84	0.19	-0.30	0.564
6.50	-27.25	-22.83	0.00	-2,063.12	0.00	2,063.12	3,101.31	1,550.65	4,595.72	2,269.65	0.22	-0.32	0.562
7.00	-27.10	-22.77	0.00	-2,051.70	0.00	2,051.70	3,096.94	1,548.47	4,579.15	2,261.47	0.26	-0.35	0.561
7.50	-26.95	-22.72	0.00	-2,040.31	0.00	2,040.31	3,092.56	1,546.28	4,562.59	2,253.29	0.30	-0.37	0.559
8.00	-26.80	-22.66	0.00	-2,028.96	0.00	2,028.96	3,088.17	1,544.08	4,546.05	2,245.12	0.34	-0.40	0.557
8.50	-26.65	-22.60	0.00	-2,017.63	0.00	2,017.63	3,083.76	1,541.88	4,529.52	2,236.96	0.38	-0.42	0.556
9.00	-26.50	-22.54	0.00	-2,006.33	0.00	2,006.33	3,079.35	1,539.68	4,513.00	2,228.80	0.43	-0.45	0.554
9.50	-26.36	-22.48	0.00	-1,995.06	0.00	1,995.06	3,074.93	1,537.47	4,496.50	2,220.65	0.48	-0.47	0.552
10.00	-26.21	-22.42	0.00	-1,983.82	0.00	1,983.82	3,070.50	1,535.25	4,480.01	2,212.51	0.53	-0.50	0.550
10.50	-26.06	-22.37	0.00	-1,972.61	0.00	1,972.61	3,066.06	1,533.03	4,463.53	2,204.37	0.58	-0.52	0.549
11.00	-25.91	-22.31	0.00	-1,961.42	0.00	1,961.42	3,061.60	1,530.80	4,447.07	2,196.24	0.64	-0.55	0.547
11.50	-25.77	-22.25	0.00	-1,950.27	0.00	1,950.27	3,057.14	1,528.57	4,430.62	2,188.12	0.70	-0.57	0.545
12.00	-25.62	-22.19	0.00	-1,939.14	0.00	1,939.14	3,052.67	1,526.33	4,414.18	2,180.00	0.76	-0.60	0.543
12.50	-25.47	-22.13	0.00	-1,928.05	0.00	1,928.05	3,048.18	1,524.09	4,397.76	2,171.89	0.82	-0.62	0.542
13.00	-25.33	-22.07	0.00	-1,916.98	0.00	1,916.98	3,043.69	1,521.84	4,381.36	2,163.79	0.89	-0.65	0.540
13.50	-25.18	-22.02	0.00	-1,905.95	0.00	1,905.95	3,039.18	1,519.59	4,364.97	2,155.69	0.96	-0.67	0.538
14.00	-25.03	-21.96	0.00	-1,894.94	0.00	1,894.94	3,034.67	1,517.33	4,348.59	2,147.60	1.03	-0.70	0.536
14.50	-24.89	-21.90	0.00	-1,883.96	0.00	1,883.96	3,030.14	1,515.07	4,332.23	2,139.52	1.10	-0.72	0.535
15.00	-24.74	-21.84	0.00	-1,873.01	0.00	1,873.01	3,025.61	1,512.80	4,315.88	2,131.45	1.18	-0.75	0.533
15.50	-24.60	-21.78	0.00	-1,862.09	0.00	1,862.09	3,021.06	1,510.53	4,299.55	2,123.38	1.26	-0.77	0.531
16.00	-24.45	-21.73	0.00	-1,851.20	0.00	1,851.20	3,016.50	1,508.25	4,283.23	2,115.33	1.34	-0.80	0.529
16.50	-24.31	-21.67	0.00	-1,840.34	0.00	1,840.34	3,011.94	1,505.97	4,266.92	2,107.27	1.43	-0.82	0.528
17.00	-24.16	-21.61	0.00	-1,829.50	0.00	1,829.50	3,007.36	1,503.68	4,250.64	2,099.23	1.52	-0.85	0.526
17.50	-24.02	-21.55	0.00	-1,818.70	0.00	1,818.70	3,002.77	1,501.39	4,234.36	2,091.19	1.61	-0.87	0.524
18.00	-23.87	-21.49	0.00	-1,807.92	0.00	1,807.92	2,998.17	1,499.09	4,218.11	2,083.16	1.70	-0.90	0.522
18.50	-23.73	-21.43	0.00	-1,797.18	0.00	1,797.18	2,993.56	1,496.78	4,201.86	2,075.14	1.79	-0.92	0.521
19.00	-23.59	-21.38	0.00	-1,786.46	0.00	1,786.46	2,988.94	1,494.47	4,185.64	2,067.13	1.89	-0.95	0.519
19.50	-23.44	-21.32	0.00	-1,775.77	0.00	1,775.77	2,984.31	1,492.16	4,169.42	2,059.12	1.99	-0.97	0.517
20.00	-23.30	-21.26	0.00	-1,765.11	0.00	1,765.11	2,979.67	1,489.84	4,153.23	2,051.12	2.10	-1.00	0.515
20.50	-23.16	-21.20	0.00	-1,754.48	0.00	1,754.48	2,975.02	1,487.51	4,137.05	2,043.13	2.20	-1.02	0.514
21.00	-23.02	-21.14	0.00	-1,743.88	0.00	1,743.88	2,970.36	1,485.18	4,120.89	2,035.15	2.31	-1.05	0.512
21.50	-22.87	-21.09	0.00	-1,733.31	0.00	1,733.31	2,965.69	1,482.85	4,104.74	2,027.18	2.42	-1.07	0.510
22.00	-22.73	-21.03	0.00	-1,722.77	0.00	1,722.77	2,961.01	1,480.51	4,088.61	2,019.21	2.54	-1.09	0.508
22.50	-22.59	-20.97	0.00	-1,712.25	0.00	1,712.25	2,956.32	1,478.16	4,072.49	2,011.25	2.65	-1.12	0.506
23.00	-22.45	-20.91	0.00	-1,701.77	0.00	1,701.77	2,951.62	1,475.81	4,056.39	2,003.30	2.77	-1.14	0.505
23.50	-22.31	-20.85	0.00	-1,691.31	0.00	1,691.31	2,946.90	1,473.45	4,040.31	1,995.36	2.89	-1.17	0.503
24.00	-22.17	-20.80	0.00	-1,680.89	0.00	1,680.89	2,942.18	1,471.09	4,024.24	1,987.42	3.02	-1.19	0.501
24.50	-22.03	-20.74	0.00	-1,670.49	0.00	1,670.49	2,937.45	1,468.72	4,008.19	1,979.50	3.14	-1.22	0.499
25.00	-21.88	-20.68	0.00	-1,660.12	0.00	1,660.12	2,932.70	1,466.35	3,992.16	1,971.58	3.27	-1.24	0.498

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:37:59 AM
 Page: 29

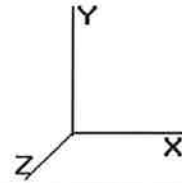
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W	105.00 mph with No Ice	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

136.00	-3.12	-6.25	0.00	-86.81	0.00	86.81	749.65	374.82	524.63	259.10	139.21	-11.14	0.339
136.50	-3.09	-6.21	0.00	-83.69	0.00	83.69	747.32	373.66	520.57	257.09	140.37	-11.17	0.330
137.00	-3.07	-6.17	0.00	-80.58	0.00	80.58	744.98	372.49	516.51	255.08	141.54	-11.20	0.320
137.50	-3.04	-6.12	0.00	-77.50	0.00	77.50	742.63	371.31	512.46	253.08	142.70	-11.23	0.311
138.00	-3.01	-6.08	0.00	-74.44	0.00	74.44	740.26	370.13	508.41	251.09	143.87	-11.26	0.301
138.50	-2.98	-6.04	0.00	-71.40	0.00	71.40	737.89	368.95	504.38	249.09	145.05	-11.29	0.291
139.00	-2.96	-6.00	0.00	-68.38	0.00	68.38	735.51	367.75	500.35	247.11	146.22	-11.32	0.281
139.50	-2.93	-5.96	0.00	-65.38	0.00	65.38	733.12	366.56	496.34	245.12	147.40	-11.34	0.271
140.00	-2.90	-5.92	0.00	-62.40	0.00	62.40	730.85	365.43	492.42	243.19	148.58	-11.37	0.261
140.50	-2.88	-5.88	0.00	-59.44	0.00	59.44	727.36	363.68	487.70	240.85	149.77	-11.40	0.251
141.00	-2.85	-5.84	0.00	-56.50	0.00	56.50	723.86	361.93	482.99	238.53	150.96	-11.42	0.241
141.50	-2.83	-5.80	0.00	-53.58	0.00	53.58	720.37	360.18	478.31	236.22	152.15	-11.44	0.231
142.00	-2.80	-5.76	0.00	-50.68	0.00	50.68	716.87	358.43	473.65	233.92	153.34	-11.47	0.221
142.50	-2.78	-5.72	0.00	-47.80	0.00	47.80	713.37	356.69	469.02	231.63	154.53	-11.49	0.211
143.00	-2.75	-5.68	0.00	-44.95	0.00	44.95	709.88	354.94	464.40	229.35	155.73	-11.51	0.200
143.50	-2.73	-5.63	0.00	-42.11	0.00	42.11	706.38	353.19	459.81	227.09	156.93	-11.53	0.190
144.00	-2.70	-5.59	0.00	-39.29	0.00	39.29	702.88	351.44	455.25	224.83	158.13	-11.55	0.179
144.50	-2.68	-5.55	0.00	-36.49	0.00	36.49	699.39	349.69	450.70	222.59	159.33	-11.57	0.168
145.00	-2.65	-5.51	0.00	-33.72	0.00	33.72	695.89	347.95	446.18	220.35	160.53	-11.58	0.157
145.50	-2.63	-5.47	0.00	-30.96	0.00	30.96	692.40	346.20	441.68	218.13	161.74	-11.60	0.146
146.00	-2.60	-5.43	0.00	-28.22	0.00	28.22	688.90	344.45	437.21	215.92	162.95	-11.61	0.135
146.50	-2.58	-5.39	0.00	-25.51	0.00	25.51	685.40	342.70	432.75	213.72	164.16	-11.63	0.123
147.00	-2.56	-5.36	0.00	-22.81	0.00	22.81	681.91	340.95	428.32	211.53	165.37	-11.64	0.112
147.50	-2.53	-5.32	0.00	-20.13	0.00	20.13	678.41	339.21	423.92	209.36	166.58	-11.65	0.100
148.00	-2.51	-5.28	0.00	-17.47	0.00	17.47	674.91	337.46	419.53	207.19	167.79	-11.66	0.088
148.50	-2.49	-5.24	0.00	-14.84	0.00	14.84	671.42	335.71	415.17	205.04	169.00	-11.67	0.076
149.00	-0.02	-0.07	0.00	-0.06	0.00	0.06	667.92	333.96	410.83	202.89	170.22	-11.68	0.000
149.50	-0.01	-0.04	0.00	-0.02	0.00	0.02	664.43	332.21	406.52	200.76	171.43	-11.68	0.000
150.00	0.00	-0.03	0.00	0.00	0.00	0.00	660.93	330.47	402.22	198.64	172.65	-11.68	0.000

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



© 2007 - 2015 by ATC IP LLC. All rights reserved.

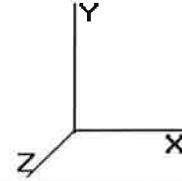
Load Case: 0.9D + 1.6W	105.00 mph with No Ice (Reduced DL)	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

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	18.769	20.64	283.30	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
0.50		1.00	0.70	18.769	20.64	282.71	1.200	* 0.000	0.50	1.611	1.93	63.9	0.0	101.7
1.00		1.00	0.70	18.769	20.64	282.11	1.200	* 0.000	0.50	1.607	1.93	63.7	0.0	101.6
1.50		1.00	0.70	18.769	20.64	281.52	1.200	* 0.000	0.50	1.604	1.92	63.6	0.0	101.5
2.00		1.00	0.70	18.769	20.64	280.92	1.200	* 0.000	0.50	1.601	1.92	63.4	0.0	101.3
2.50		1.00	0.70	18.769	20.64	280.33	1.200	* 0.000	0.50	1.597	1.92	63.3	0.0	101.2
3.00		1.00	0.70	18.769	20.64	279.74	1.200	* 0.000	0.50	1.594	1.91	63.2	0.0	101.0
3.50		1.00	0.70	18.769	20.64	279.14	1.200	* 0.000	0.50	1.590	1.91	63.0	0.0	100.9
4.00		1.00	0.70	18.769	20.64	278.55	1.200	* 0.000	0.50	1.587	1.90	62.9	0.0	100.7
4.50		1.00	0.70	18.769	20.64	277.95	1.200	* 0.000	0.50	1.584	1.90	62.8	0.0	100.6
5.00		1.00	0.70	18.769	20.64	277.36	1.200	* 0.000	0.50	1.580	1.90	62.6	0.0	100.4
5.50		1.00	0.70	18.769	20.64	276.77	1.200	* 0.000	0.50	1.577	1.89	62.5	0.0	100.3
6.00		1.00	0.70	18.769	20.64	276.17	1.200	* 0.000	0.50	1.574	1.89	62.4	0.0	100.2
6.50		1.00	0.70	18.769	20.64	275.58	1.200	* 0.000	0.50	1.570	1.88	62.2	0.0	100.0
7.00		1.00	0.70	18.769	20.64	274.99	1.200	* 0.000	0.50	1.567	1.88	62.1	0.0	99.9
7.50		1.00	0.70	18.769	20.64	274.39	1.200	* 0.000	0.50	1.563	1.88	62.0	0.0	99.7
8.00		1.00	0.70	18.769	20.64	273.80	1.200	* 0.000	0.50	1.560	1.87	61.8	0.0	99.6
8.50		1.00	0.70	18.769	20.64	273.20	1.200	* 0.000	0.50	1.557	1.87	61.7	0.0	99.4
9.00		1.00	0.70	18.769	20.64	272.61	1.200	* 0.000	0.50	1.553	1.86	61.6	0.0	99.3
9.50		1.00	0.70	18.769	20.64	272.02	1.200	* 0.000	0.50	1.550	1.86	61.4	0.0	99.1
10.00		1.00	0.70	18.769	20.64	271.42	1.200	* 0.000	0.50	1.547	1.86	61.3	0.0	99.0
10.50		1.00	0.70	18.769	20.64	270.83	1.200	* 0.000	0.50	1.543	1.85	61.2	0.0	98.9
11.00		1.00	0.70	18.769	20.64	270.23	1.200	* 0.000	0.50	1.540	1.85	61.0	0.0	98.7
11.50		1.00	0.70	18.769	20.64	269.64	1.200	* 0.000	0.50	1.536	1.84	60.9	0.0	98.6
12.00		1.00	0.70	18.769	20.64	269.05	1.200	* 0.000	0.50	1.533	1.84	60.8	0.0	98.4
12.50		1.00	0.70	18.769	20.64	268.45	1.200	* 0.000	0.50	1.530	1.84	60.6	0.0	98.3
13.00		1.00	0.70	18.769	20.64	267.86	1.200	* 0.000	0.50	1.526	1.83	60.5	0.0	98.1
13.50		1.00	0.70	18.769	20.64	267.27	1.200	* 0.000	0.50	1.523	1.83	60.4	0.0	98.0
14.00		1.00	0.70	18.769	20.64	266.67	1.200	* 0.000	0.50	1.519	1.82	60.2	0.0	97.8
14.50		1.00	0.70	18.769	20.64	266.08	1.200	* 0.000	0.50	1.516	1.82	60.1	0.0	97.7
15.00		1.00	0.70	18.769	20.64	265.48	1.200	* 0.000	0.50	1.513	1.82	60.0	0.0	97.5
15.50		1.00	0.70	18.769	20.64	264.89	1.200	* 0.000	0.50	1.509	1.81	59.8	0.0	97.4
16.00		1.00	0.70	18.769	20.64	264.30	1.200	* 0.000	0.50	1.506	1.81	59.7	0.0	97.3
16.50		1.00	0.70	18.769	20.64	263.70	1.200	* 0.000	0.50	1.503	1.80	59.6	0.0	97.1
17.00		1.00	0.70	18.769	20.64	263.11	1.200	* 0.000	0.50	1.499	1.80	59.4	0.0	97.0
17.50		1.00	0.70	18.769	20.64	262.52	1.200	* 0.000	0.50	1.496	1.80	59.3	0.0	96.8
18.00		1.00	0.70	18.769	20.64	261.92	1.200	* 0.000	0.50	1.492	1.79	59.2	0.0	96.7
18.50		1.00	0.70	18.769	20.64	261.33	1.200	* 0.000	0.50	1.489	1.79	59.0	0.0	96.5
19.00		1.00	0.70	18.769	20.64	260.73	1.200	* 0.000	0.50	1.486	1.78	58.9	0.0	96.4
19.50		1.00	0.70	18.769	20.64	260.14	1.200	* 0.000	0.50	1.482	1.78	58.8	0.0	96.2
20.00		1.00	0.70	18.769	20.64	259.55	1.200	* 0.000	0.50	1.479	1.77	58.6	0.0	96.1
20.50		1.00	0.70	18.769	20.64	258.95	1.200	* 0.000	0.50	1.476	1.77	58.5	0.0	96.0
21.00		1.00	0.70	18.769	20.64	258.36	1.200	* 0.000	0.50	1.472	1.77	58.4	0.0	95.8
21.50		1.00	0.70	18.769	20.64	257.76	1.200	* 0.000	0.50	1.469	1.76	58.2	0.0	95.7
22.00		1.00	0.70	18.769	20.64	257.17	1.200	* 0.000	0.50	1.465	1.76	58.1	0.0	95.5
22.50		1.00	0.70	18.769	20.64	256.58	1.200	* 0.000	0.50	1.462	1.75	58.0	0.0	95.4
23.00		1.00	0.70	18.769	20.64	255.98	1.200	* 0.000	0.50	1.459	1.75	57.8	0.0	95.2
23.50		1.00	0.70	18.769	20.64	255.39	1.200	* 0.000	0.50	1.455	1.75	57.7	0.0	95.1
24.00		1.00	0.70	18.769	20.64	254.80	1.200	* 0.000	0.50	1.452	1.74	57.6	0.0	94.9
24.50		1.00	0.70	18.769	20.64	254.20	1.200	* 0.000	0.50	1.449	1.74	57.4	0.0	94.8
25.00		1.00	0.70	18.769	20.64	253.61	1.200	* 0.000	0.50	1.445	1.73	57.3	0.0	94.7

Pole : 302498
Location : Plainfield CT 6, CT
Height : 150.0 (ft)
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156706 (in/ft)

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



© 2007 - 2015 by ATC IP LLC. All rights reserved.

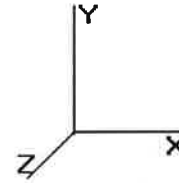
Load Case: 0.9D + 1.6W **105.00 mph with No Ice (Reduced DL)** **45 Iterations**
Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**
Dead Load Factor : 0.90
Wind Load Factor : 1.60

109.0	1.00	1.01	27.158	29.87	195.32	1.000	0.000	0.50	0.926	0.93	44.3	0.0	26.1
109.5	1.00	1.01	27.193	29.91	194.74	1.000	0.000	0.50	0.923	0.92	44.2	0.0	26.1
110.0	1.00	1.01	27.229	29.95	194.15	1.000	0.000	0.50	0.919	0.92	44.0	0.0	26.0
110.0	1.00	1.01	27.229	29.95	194.15	1.000	0.000	0.00	0.001	0.00	0.0	0.0	0.0
110.5	1.00	1.01	27.264	29.99	193.56	1.000	0.000	0.50	0.915	0.92	43.9	0.0	19.5
111.0	1.00	1.01	27.299	30.02	192.97	1.000	0.000	0.50	0.912	0.91	43.8	0.0	19.4
111.5	1.00	1.01	27.334	30.06	192.37	1.000	0.000	0.50	0.909	0.91	43.7	0.0	19.4
112.0	1.00	1.02	27.369	30.10	191.78	1.000	0.000	0.50	0.906	0.91	43.6	0.0	19.3
112.5	1.00	1.02	27.404	30.14	191.18	1.000	0.000	0.50	0.902	0.90	43.5	0.0	19.2
113.0	1.00	1.02	27.439	30.18	190.59	1.000	0.000	0.50	0.899	0.90	43.4	0.0	19.1
113.5	1.00	1.02	27.473	30.22	189.99	1.000	0.000	0.50	0.895	0.90	43.3	0.0	19.1
114.0	1.00	1.02	27.508	30.25	189.39	1.000	0.000	0.50	0.892	0.89	43.2	0.0	19.0
114.5	1.00	1.02	27.542	30.29	188.79	1.000	0.000	0.50	0.889	0.89	43.1	0.0	18.9
115.0	1.00	1.02	27.577	30.33	188.19	1.000	0.000	0.50	0.885	0.89	43.0	0.0	18.9
115.5	1.00	1.03	27.611	30.37	187.58	1.000	0.000	0.50	0.882	0.88	42.9	0.0	18.8
116.0	1.00	1.03	27.645	30.41	186.98	1.000	0.000	0.50	0.879	0.88	42.7	0.0	18.7
116.5	1.00	1.03	27.679	30.44	186.37	1.000	0.000	0.50	0.875	0.88	42.6	0.0	18.6
117.0	1.00	1.03	27.713	30.48	185.76	1.000	0.000	0.50	0.872	0.87	42.5	0.0	18.6
117.5	1.00	1.03	27.747	30.52	185.15	1.000	0.000	0.50	0.868	0.87	42.4	0.0	18.5
118.0	1.00	1.03	27.780	30.55	184.54	1.000	0.000	0.50	0.865	0.87	42.3	0.0	18.4
118.5	1.00	1.03	27.814	30.59	183.93	1.000	0.000	0.50	0.862	0.86	42.2	0.0	18.3
119.0	1.00	1.03	27.847	30.63	183.32	1.000	0.000	0.50	0.858	0.86	42.1	0.0	18.3
119.5	1.00	1.04	27.881	30.66	182.71	1.000	0.000	0.50	0.855	0.85	42.0	0.0	18.2
120.0	1.00	1.04	27.914	30.70	182.09	1.000	0.000	0.50	0.852	0.85	41.8	0.0	18.1
120.5	1.00	1.04	27.947	30.74	181.47	1.000	0.000	0.50	0.848	0.85	41.7	0.0	18.1
121.0	1.00	1.04	27.980	30.77	180.86	1.000	0.000	0.50	0.845	0.84	41.6	0.0	18.0
121.5	1.00	1.04	28.013	30.81	180.24	1.000	0.000	0.50	0.841	0.84	41.5	0.0	17.9
122.0	1.00	1.04	28.046	30.85	179.62	1.000	0.000	0.50	0.838	0.84	41.4	0.0	17.8
122.5	1.00	1.04	28.079	30.88	179.00	1.000	0.000	0.50	0.835	0.83	41.2	0.0	17.8
123.0	1.00	1.04	28.112	30.92	178.37	1.000	0.000	0.50	0.831	0.83	41.1	0.0	17.7
123.5	1.00	1.05	28.144	30.95	177.75	1.000	0.000	0.50	0.828	0.83	41.0	0.0	17.6
124.0	1.00	1.05	28.177	30.99	177.12	1.000	0.000	0.50	0.824	0.82	40.9	0.0	17.5
124.5	1.00	1.05	28.209	31.03	176.50	1.000	0.000	0.50	0.821	0.82	40.8	0.0	17.5
125.0	1.00	1.05	28.242	31.06	175.87	1.000	0.000	0.50	0.818	0.82	40.6	0.0	17.4
125.5	1.00	1.05	28.274	31.10	175.24	1.000	0.000	0.50	0.814	0.81	40.5	0.0	17.3
126.0	1.00	1.05	28.306	31.13	174.61	1.000	0.000	0.50	0.811	0.81	40.4	0.0	17.3
126.5	1.00	1.05	28.338	31.17	173.98	1.000	0.000	0.50	0.808	0.81	40.3	0.0	17.2
127.0	1.00	1.05	28.370	31.20	173.35	1.000	0.000	0.50	0.804	0.80	40.2	0.0	17.1
127.5	1.00	1.05	28.402	31.24	172.72	1.000	0.000	0.50	0.801	0.80	40.0	0.0	17.0
128.0	1.00	1.06	28.434	31.27	172.08	1.000	0.000	0.50	0.797	0.80	39.9	0.0	17.0
128.5	1.00	1.06	28.465	31.31	171.45	1.000	0.000	0.50	0.794	0.79	39.8	0.0	16.9
129.0	1.00	1.06	28.497	31.34	170.81	1.000	0.000	0.50	0.791	0.79	39.7	0.0	16.8
129.5	1.00	1.06	28.528	31.38	170.17	1.000	0.000	0.50	0.787	0.79	39.5	0.0	16.7
130.0	1.00	1.06	28.560	31.41	169.53	1.000	0.000	0.50	0.784	0.78	39.4	0.0	16.7
130.5	1.00	1.06	28.591	31.45	168.89	1.000	0.000	0.50	0.781	0.78	39.3	0.0	16.6
131.0	1.00	1.06	28.622	31.48	168.25	1.000	0.000	0.50	0.777	0.78	39.2	0.0	16.5
131.5	1.00	1.06	28.654	31.51	167.61	1.000	0.000	0.50	0.774	0.77	39.0	0.0	16.5
132.0	1.00	1.07	28.685	31.55	166.97	1.000	0.000	0.50	0.770	0.77	38.9	0.0	16.4
132.5	1.00	1.07	28.716	31.58	166.32	1.000	0.000	0.50	0.767	0.77	38.8	0.0	16.3
133.0	1.00	1.07	28.747	31.62	165.68	1.000	0.000	0.50	0.764	0.76	38.6	0.0	16.2
133.5	1.00	1.07	28.777	31.65	165.03	1.000	0.000	0.50	0.760	0.76	38.5	0.0	16.2
134.0	1.00	1.07	28.808	31.68	164.38	1.000	0.000	0.50	0.757	0.76	38.4	0.0	16.1
134.5	1.00	1.07	28.839	31.72	163.74	1.000	0.000	0.50	0.754	0.75	38.2	0.0	16.0
135.0	1.00	1.07	28.869	31.75	163.09	1.000	0.000	0.50	0.750	0.75	38.1	0.0	15.9
135.5	1.00	1.07	28.900	31.79	162.44	1.000	0.000	0.50	0.747	0.75	38.0	0.0	15.9
136.0	1.00	1.07	28.930	31.82	161.78	1.000	0.000	0.50	0.743	0.74	37.9	0.0	15.8
136.5	1.00	1.08	28.961	31.85	161.13	1.000	0.000	0.50	0.740	0.74	37.7	0.0	15.7

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:00 AM
 Page: 35



© 2007 - 2015 by ATC IP LLC. All rights reserved.

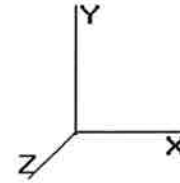
Load Case: 0.9D + 1.6W	105.00 mph with No Ice (Reduced DL)	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

137.0	1.00	1.08	28.991	31.89	160.48	1.000	0.000	0.50	0.737	0.74	37.6	0.0	15.7	
137.5	1.00	1.08	29.021	31.92	159.82	1.000	0.000	0.50	0.733	0.73	37.5	0.0	15.6	
138.0	1.00	1.08	29.051	31.95	159.17	1.000	0.000	0.50	0.730	0.73	37.3	0.0	15.5	
138.5	1.00	1.08	29.081	31.99	158.51	1.000	0.000	0.50	0.726	0.73	37.2	0.0	15.4	
139.0	1.00	1.08	29.111	32.02	157.85	1.000	0.000	0.50	0.723	0.72	37.0	0.0	15.4	
139.5	1.00	1.08	29.141	32.05	157.19	1.000	0.000	0.50	0.720	0.72	36.9	0.0	15.3	
140.0	1.00	1.08	29.171	32.08	156.53	1.000	0.000	0.50	0.716	0.72	36.8	0.0	15.2	
140.5	1.00	1.08	29.201	32.12	155.87	1.000	0.000	0.50	0.713	0.71	36.6	0.0	15.1	
141.0	1.00	1.09	29.230	32.15	155.21	1.000	0.000	0.50	0.710	0.71	36.5	0.0	15.1	
141.5	1.00	1.09	29.260	32.18	154.55	1.000	0.000	0.50	0.706	0.71	36.4	0.0	15.0	
142.0	1.00	1.09	29.289	32.21	153.88	1.000	0.000	0.50	0.703	0.70	36.2	0.0	14.9	
142.5	1.00	1.09	29.319	32.25	153.22	1.000	0.000	0.50	0.699	0.70	36.1	0.0	14.9	
143.0	1.00	1.09	29.348	32.28	152.55	1.000	0.000	0.50	0.696	0.70	36.0	0.0	14.8	
143.5	1.00	1.09	29.378	32.31	151.88	1.000	0.000	0.50	0.693	0.69	35.8	0.0	14.7	
144.0	1.00	1.09	29.407	32.34	151.22	1.000	0.000	0.50	0.689	0.69	35.7	0.0	14.6	
144.5	1.00	1.09	29.436	32.37	150.55	1.000	0.000	0.50	0.686	0.69	35.5	0.0	14.6	
145.0	1.00	1.09	29.465	32.41	149.88	1.000	0.000	0.50	0.683	0.68	35.4	0.0	14.5	
145.5	1.00	1.10	29.494	32.44	149.21	1.000	0.000	0.50	0.679	0.68	35.3	0.0	14.4	
146.0	1.00	1.10	29.523	32.47	148.54	1.000	0.000	0.50	0.676	0.68	35.1	0.0	14.3	
146.5	1.00	1.10	29.552	32.50	147.86	1.000	0.000	0.50	0.672	0.67	35.0	0.0	14.3	
147.0	1.00	1.10	29.581	32.53	147.19	1.000	0.000	0.50	0.669	0.67	34.8	0.0	14.2	
147.5	1.00	1.10	29.609	32.57	146.52	1.000	0.000	0.50	0.666	0.67	34.7	0.0	14.1	
148.0	1.00	1.10	29.638	32.60	145.84	1.000	0.000	0.50	0.662	0.66	34.5	0.0	14.1	
148.5	1.00	1.10	29.666	32.63	145.16	1.000	0.000	0.50	0.659	0.66	34.4	0.0	14.0	
149.0	Apertunance(s)	1.00	1.10	29.695	32.66	144.49	1.000	0.000	0.50	0.655	0.66	34.3	0.0	13.9
149.5		1.00	1.10	29.723	32.69	143.81	1.000	0.000	0.50	0.652	0.65	34.1	0.0	13.8
150.0		1.00	1.11	29.752	32.72	143.13	1.000	0.000	0.50	0.649	0.65	34.0	0.0	13.8
							Totals:	150.00			14,917.2	0.0	15,117.4	

* = Cf Adjusted By Linear Load Ra Effect

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:00 AM
 Page: 36

© 2007 - 2015 by ATC IP LLC. All rights reserved.

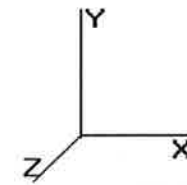
Load Case: 0.9D + 1.6W	105.00 mph with No Ice (Reduced DL)	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

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)
39.00	0.5' Omni	1	20.247	22.272	1.00	1.00	0.06	0.000	0.000	2.14	0.00	0.00	4.50
39.00	Flat Side Arm	1	20.247	22.272	1.00	1.00	2.50	0.000	0.000	89.09	0.00	0.00	45.00
114.0	RFS DB-T1-6Z-8AB-0Z	1	27.508	30.259	0.67	0.80	2.57	0.000	0.000	124.56	0.00	0.00	39.60
114.0	Alcatel-Lucent RRH 2	3	27.508	30.259	0.50	0.80	2.26	0.000	0.000	109.22	0.00	0.00	116.10
114.0	Alcatel-Lucent RRH2X	3	27.508	30.259	0.50	0.80	4.02	0.000	0.000	194.62	0.00	0.00	148.50
114.0	Commscope HBXX-	6	27.508	30.259	0.68	0.80	27.84	0.000	0.000	1,347.94	0.00	0.00	220.32
114.0	Antel BXA-70063/6CF-	3	27.508	30.259	0.66	0.80	11.99	0.000	0.000	580.53	0.00	0.00	45.90
114.0	Round T-Arms	3	27.508	30.259	0.67	0.75	12.06	0.000	0.000	583.87	0.00	0.00	675.00
114.0	Antel BXA-70080-4CF-	3	27.508	30.259	0.72	0.80	6.17	0.000	0.000	298.66	0.00	0.00	32.40
114.0	RFS FD9R6004/2C-3L	6	27.508	30.259	0.50	0.80	0.86	0.000	0.000	41.83	0.00	0.00	16.74
149.0	Powerwave LGP21401	6	29.976	32.974	0.50	0.75	2.48	0.000	5.000	130.58	0.00	652.88	76.14
149.0	Powerwave LGP21902	6	29.976	32.974	0.50	0.75	0.61	0.000	5.000	32.05	0.00	160.25	29.70
149.0	Flat Platform w/ Han	1	29.695	32.664	1.00	1.00	40.00	0.000	0.000	2,090.52	0.00	0.00	1,800.00
149.0	KMW AM-X-CD-17-65-	2	29.976	32.974	0.68	0.75	11.54	0.000	5.000	608.63	0.00	3,043.15	107.10
149.0	Andrew SBNH-	1	29.976	32.974	0.70	0.75	6.01	0.000	5.000	316.87	0.00	1,584.33	54.72
149.0	Powerwave 7770.00	6	29.976	32.974	0.65	0.75	16.12	0.000	5.000	850.29	0.00	4,251.46	189.00
149.0	Ericsson RRUS-11	6	29.976	32.974	0.50	0.75	8.53	0.000	5.000	449.90	0.00	2,249.48	297.00
149.0	Raycap DC6-48-60-18-	1	29.976	32.974	1.00	0.75	0.83	0.000	5.000	43.92	0.00	219.61	18.00
										7,895.23			3,915.72

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:00 AM
 Page: 37

© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W 105.00 mph with No Ice (Reduced DL)

45 Iterations

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

Wind Importance Factor : 1.00

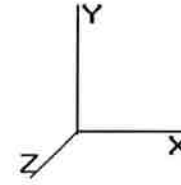
Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
0.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.207	0.000	7.22	0.00
1.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.207	0.000	7.22	0.00
1.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.208	0.000	7.22	0.00
2.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.208	0.000	7.22	0.00
2.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.209	0.000	7.22	0.00
3.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.209	0.000	7.22	0.00
3.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.210	0.000	7.22	0.00
4.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.210	0.000	7.22	0.00
4.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.210	0.000	7.22	0.00
5.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.211	0.000	7.22	0.00
5.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.211	0.000	7.22	0.00
6.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.212	0.000	7.22	0.00
6.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.212	0.000	7.22	0.00
7.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.213	0.000	7.22	0.00
7.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.213	0.000	7.22	0.00
8.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.214	0.000	7.22	0.00
8.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.214	0.000	7.22	0.00
9.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.215	0.000	7.22	0.00
9.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.215	0.000	7.22	0.00
10.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.216	0.000	7.22	0.00
10.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.216	0.000	7.22	0.00
11.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.216	0.000	7.22	0.00
11.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.217	0.000	7.22	0.00
12.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.217	0.000	7.22	0.00
12.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.218	0.000	7.22	0.00
13.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.218	0.000	7.22	0.00
13.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.219	0.000	7.22	0.00
14.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.219	0.000	7.22	0.00
14.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.220	0.000	7.22	0.00
15.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.220	0.000	7.22	0.00
15.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.221	0.000	7.22	0.00
16.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.221	0.000	7.22	0.00
16.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.222	0.000	7.22	0.00
17.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.222	0.000	7.22	0.00
17.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.223	0.000	7.22	0.00
18.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.223	0.000	7.22	0.00
18.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.224	0.000	7.22	0.00
19.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.224	0.000	7.22	0.00
19.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.225	0.000	7.22	0.00
20.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.225	0.000	7.22	0.00
20.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.226	0.000	7.22	0.00
21.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.226	0.000	7.22	0.00
21.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.227	0.000	7.22	0.00
22.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.227	0.000	7.22	0.00
22.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.228	0.000	7.22	0.00
23.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.229	0.000	7.22	0.00
23.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.229	0.000	7.22	0.00
24.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.230	0.000	7.22	0.00
24.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.230	0.000	7.22	0.00
25.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.231	0.000	7.22	0.00
25.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.231	0.000	7.22	0.00

Pole : 302498
Location : Plainfield CT 6, CT
Height : 150.0 (ft)
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156706 (in/ft)

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

© 2007 - 2015 by ATC IP LLC. All rights reserved.



2/10/2015 10:38:00 AM

Page: 38

Load Case: 0.9D + 1.6W

105.00 mph with No Ice (Reduced DL)

45 Iterations

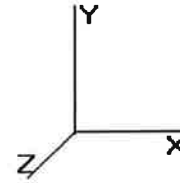
Gust Response Factor : 1.10
Dead Load Factor : 0.90
Wind Load Factor : 1.60

Wind Importance Factor : 1.00

26.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.232	0.000	7.22	0.00
26.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.232	0.000	7.22	0.00
27.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.233	0.000	7.22	0.00
27.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.233	0.000	7.22	0.00
28.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.234	0.000	7.22	0.00
28.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.234	0.000	7.22	0.00
29.00	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.235	0.000	7.22	0.00
29.50	(4) #20 Dywidag	Yes	0.50	0.656	8.00	0.33	0.22	18.769	0.236	0.000	7.22	0.00
30.00	(4) #20 Dywidag	Yes	0.50	0.655	8.00	0.33	0.22	18.785	0.236	0.000	7.22	0.00
30.50	(4) #20 Dywidag	Yes	0.50	0.654	8.00	0.33	0.22	18.874	0.237	0.000	7.24	0.00
31.00	(4) #20 Dywidag	Yes	0.50	0.652	8.00	0.33	0.22	18.962	0.237	0.000	7.26	0.00
31.50	(4) #20 Dywidag	Yes	0.50	0.651	8.00	0.33	0.22	19.049	0.238	0.000	7.27	0.00
31.50	(4) #20 Dywidag	Yes	0.00	0.651	8.00	0.00	0.00	19.049	0.238	0.000	0.00	0.00
32.00	(4) #20 Dywidag	Yes	0.50	0.649	8.00	0.33	0.22	19.134	0.238	0.000	7.28	0.00
32.50	(4) #20 Dywidag	Yes	0.50	0.648	8.00	0.33	0.22	19.219	0.239	0.000	7.31	0.00
33.00	(4) #20 Dywidag	Yes	0.50	0.647	8.00	0.33	0.22	19.303	0.240	0.000	7.32	0.00
33.50	(4) #20 Dywidag	Yes	0.50	0.645	8.00	0.33	0.22	19.386	0.240	0.000	7.34	0.00
34.00	(4) #20 Dywidag	Yes	0.50	0.644	8.00	0.33	0.21	19.469	0.241	0.000	7.35	0.00
34.50	(4) #20 Dywidag	Yes	0.50	0.642	8.00	0.33	0.21	19.550	0.241	0.000	7.37	0.00
35.00	(4) #20 Dywidag	Yes	0.50	0.641	8.00	0.33	0.21	19.631	0.242	0.000	7.38	0.00
35.50	(4) #20 Dywidag	Yes	0.50	0.640	8.00	0.33	0.21	19.710	0.243	0.000	7.40	0.00
35.67	(4) #20 Dywidag	Yes	0.17	0.639	8.00	0.11	0.07	19.737	0.243	0.000	2.47	0.00
36.00	(4) #20 Dywidag	Yes	0.33	0.639	8.00	0.22	0.14	19.789	0.239	0.000	4.94	0.00
36.50	(4) #20 Dywidag	Yes	0.50	0.637	8.00	0.33	0.21	19.867	0.239	0.000	7.43	0.00
37.00	(4) #20 Dywidag	Yes	0.50	0.636	8.00	0.33	0.21	19.945	0.240	0.000	7.44	0.00
37.50	(4) #20 Dywidag	Yes	0.50	0.635	8.00	0.33	0.21	20.021	0.240	0.000	7.46	0.00
38.00	(4) #20 Dywidag	Yes	0.50	0.634	8.00	0.33	0.21	20.097	0.241	0.000	7.47	0.00
38.50	(4) #20 Dywidag	Yes	0.50	0.632	8.00	0.33	0.21	20.173	0.241	0.000	7.48	0.00
39.00	(4) #20 Dywidag	Yes	0.50	0.631	8.00	0.33	0.21	20.247	0.242	0.000	7.50	0.00
39.50	(4) #20 Dywidag	Yes	0.50	0.630	8.00	0.33	0.21	20.321	0.243	0.000	7.51	0.00
40.00	(4) #20 Dywidag	Yes	0.50	0.629	8.00	0.33	0.21	20.394	0.243	0.000	7.53	0.00
40.50	(4) #20 Dywidag	Yes	0.50	0.628	8.00	0.33	0.21	20.467	0.244	0.000	7.54	0.00
41.00	(4) #20 Dywidag	Yes	0.50	0.627	8.00	0.33	0.21	20.538	0.244	0.000	7.55	0.00
41.50	(4) #20 Dywidag	Yes	0.50	0.626	8.00	0.33	0.21	20.610	0.245	0.000	7.57	0.00
42.00	(4) #20 Dywidag	Yes	0.50	0.625	8.00	0.33	0.21	20.680	0.246	0.000	7.58	0.00
42.50	(4) #20 Dywidag	Yes	0.50	0.624	8.00	0.33	0.21	20.750	0.246	0.000	7.59	0.00
43.00	(4) #20 Dywidag	Yes	0.50	0.623	8.00	0.33	0.21	20.820	0.247	0.000	7.60	0.00
43.50	(4) #20 Dywidag	Yes	0.50	0.622	8.00	0.33	0.21	20.889	0.247	0.000	7.62	0.00
44.00	(4) #20 Dywidag	Yes	0.50	0.620	8.00	0.33	0.21	20.957	0.248	0.000	7.63	0.00
44.50	(4) #20 Dywidag	Yes	0.50	0.619	8.00	0.33	0.21	21.025	0.249	0.000	7.64	0.00
45.00	(4) #20 Dywidag	Yes	0.50	0.619	8.00	0.33	0.21	21.092	0.249	0.000	7.65	0.00
45.50	(4) #20 Dywidag	Yes	0.50	0.618	8.00	0.33	0.21	21.159	0.250	0.000	7.67	0.00
46.00	(4) #20 Dywidag	Yes	0.50	0.617	8.00	0.33	0.21	21.225	0.251	0.000	7.68	0.00
46.50	(4) #20 Dywidag	Yes	0.50	0.616	8.00	0.33	0.21	21.291	0.251	0.000	7.69	0.00
47.00	(4) #20 Dywidag	Yes	0.50	0.615	8.00	0.33	0.20	21.356	0.252	0.000	7.70	0.00
47.50	(4) #20 Dywidag	Yes	0.50	0.614	8.00	0.33	0.20	21.420	0.253	0.000	7.71	0.00
48.00	(4) #20 Dywidag	Yes	0.50	0.613	8.00	0.33	0.20	21.485	0.253	0.000	7.72	0.00
48.50	(4) #20 Dywidag	Yes	0.50	0.612	8.00	0.33	0.20	21.548	0.254	0.000	7.74	0.00
49.00	(4) #20 Dywidag	Yes	0.50	0.611	8.00	0.33	0.20	21.612	0.254	0.000	7.75	0.00
49.50	(4) #20 Dywidag	Yes	0.50	0.610	8.00	0.33	0.20	21.674	0.255	0.000	7.76	0.00
50.00	(4) #20 Dywidag	Yes	0.50	0.609	8.00	0.33	0.20	21.737	0.256	0.000	7.77	0.00
50.50	(4) #20 Dywidag	Yes	0.50	0.608	8.00	0.33	0.20	21.799	0.256	0.000	7.78	0.00
51.00	(4) #20 Dywidag	Yes	0.50	0.608	8.00	0.33	0.20	21.860	0.257	0.000	7.79	0.00
51.50	(4) #20 Dywidag	Yes	0.50	0.607	8.00	0.33	0.20	21.921	0.258	0.000	7.80	0.00
52.00	(4) #20 Dywidag	Yes	0.50	0.606	8.00	0.33	0.20	21.982	0.258	0.000	7.81	0.00
52.50	(4) #20 Dywidag	Yes	0.50	0.605	8.00	0.33	0.20	22.042	0.259	0.000	7.82	0.00

Pole : 302498
Location : Plainfield CT 6, CT
Height : 150.0 (ft)
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:00 AM
Page: 39

© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W

105.00 mph with No Ice (Reduced DL)

45 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 0.90

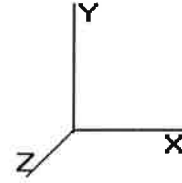
Wind Load Factor : 1.60

Totals: 773.10 0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:00 AM
 Page: 40



© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W 105.00 mph with No Ice (Reduced DL) 45 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

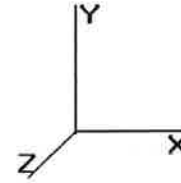
Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
0.50	71.07	101.75	0.00	0.00
1.00	70.94	101.60	0.00	0.00
1.50	70.80	101.46	0.00	0.00
2.00	70.67	101.31	0.00	0.00
2.50	70.53	101.17	0.00	0.00
3.00	70.40	101.02	0.00	0.00
3.50	70.27	100.88	0.00	0.00
4.00	70.13	100.73	0.00	0.00
4.50	70.00	100.59	0.00	0.00
5.00	69.86	100.45	0.00	0.00
5.50	69.73	113.78	0.00	0.00
6.00	69.60	113.64	0.00	0.00
6.50	69.46	113.49	0.00	0.00
7.00	69.33	113.35	0.00	0.00
7.50	69.19	113.20	0.00	0.00
8.00	69.06	113.06	0.00	0.00
8.50	68.93	112.91	0.00	0.00
9.00	68.79	112.77	0.00	0.00
9.50	68.66	112.62	0.00	0.00
10.00	68.52	112.48	0.00	0.00
10.50	68.39	112.33	0.00	0.00
11.00	68.26	112.19	0.00	0.00
11.50	68.12	112.04	0.00	0.00
12.00	67.99	111.90	0.00	0.00
12.50	67.85	111.75	0.00	0.00
13.00	67.72	111.61	0.00	0.00
13.50	67.59	111.46	0.00	0.00
14.00	67.45	111.32	0.00	0.00
14.50	67.32	111.17	0.00	0.00
15.00	67.18	111.03	0.00	0.00
15.50	67.05	110.88	0.00	0.00
16.00	66.92	110.74	0.00	0.00
16.50	66.78	110.59	0.00	0.00
17.00	66.65	110.45	0.00	0.00
17.50	66.51	110.30	0.00	0.00
18.00	66.38	110.16	0.00	0.00
18.50	66.25	110.01	0.00	0.00
19.00	66.11	109.87	0.00	0.00
19.50	65.98	109.72	0.00	0.00
20.00	65.84	109.58	0.00	0.00
20.50	65.71	109.44	0.00	0.00
21.00	65.58	109.29	0.00	0.00
21.50	65.44	109.15	0.00	0.00
22.00	65.31	109.00	0.00	0.00
22.50	65.17	108.86	0.00	0.00
23.00	65.04	108.71	0.00	0.00
23.50	64.91	108.57	0.00	0.00
24.00	64.77	108.42	0.00	0.00
24.50	64.64	108.28	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:00 AM
 Page: 41



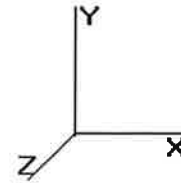
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W	105.00 mph with No Ice (Reduced DL)	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

25.00	64.50	108.13	0.00	0.00
25.50	64.37	107.99	0.00	0.00
26.00	64.24	107.84	0.00	0.00
26.50	64.10	107.70	0.00	0.00
27.00	63.97	107.55	0.00	0.00
27.50	63.84	107.41	0.00	0.00
28.00	63.70	107.26	0.00	0.00
28.50	63.57	107.12	0.00	0.00
29.00	63.43	106.97	0.00	0.00
29.50	63.30	106.83	0.00	0.00
30.00	63.22	106.68	0.00	0.00
30.50	63.36	106.54	0.00	0.00
31.00	63.51	106.39	0.00	0.00
31.50	63.64	106.25	0.00	0.00
31.50	0.04	0.07	0.00	0.00
32.00	64.83	156.49	0.00	0.00
32.50	65.00	156.33	0.00	0.00
33.00	65.13	156.06	0.00	0.00
33.50	65.26	155.80	0.00	0.00
34.00	65.38	155.53	0.00	0.00
34.50	65.50	155.27	0.00	0.00
35.00	65.62	155.00	0.00	0.00
35.50	65.73	154.73	0.00	0.00
35.67	21.95	51.62	0.00	0.00
36.00	43.83	64.19	0.00	0.00
36.50	65.94	96.28	0.00	0.00
37.00	66.04	96.16	0.00	0.00
37.50	66.13	96.04	0.00	0.00
38.00	66.23	95.92	0.00	0.00
38.50	66.32	95.80	0.00	0.00
39.00	157.63	145.18	0.00	0.00
39.50	66.49	95.49	0.00	0.00
40.00	66.57	95.37	0.00	0.00
40.50	66.64	95.25	0.00	0.00
41.00	66.72	95.13	0.00	0.00
41.50	66.79	95.01	0.00	0.00
42.00	66.86	94.89	0.00	0.00
42.50	66.92	94.77	0.00	0.00
43.00	66.99	94.65	0.00	0.00
43.50	67.05	94.52	0.00	0.00
44.00	67.10	94.40	0.00	0.00
44.50	67.16	94.28	0.00	0.00
45.00	67.21	94.16	0.00	0.00
45.50	67.26	94.04	0.00	0.00
46.00	67.31	93.92	0.00	0.00
46.50	67.35	93.80	0.00	0.00
47.00	67.39	93.68	0.00	0.00
47.50	67.43	93.56	0.00	0.00
48.00	67.47	93.44	0.00	0.00
48.50	67.50	93.32	0.00	0.00
49.00	67.54	93.20	0.00	0.00
49.50	67.57	93.08	0.00	0.00
50.00	67.59	92.96	0.00	0.00
50.50	67.62	92.84	0.00	0.00
51.00	67.64	92.72	0.00	0.00
51.50	67.66	92.60	0.00	0.00
52.00	67.68	92.48	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:00 AM
 Page: 42

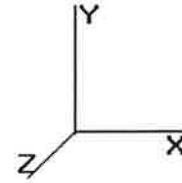
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W 105.00 mph with No Ice (Reduced DL) 45 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

52.50	67.70	58.95	0.00	0.00
53.00	49.90	58.83	0.00	0.00
53.50	49.90	58.71	0.00	0.00
54.00	49.90	58.59	0.00	0.00
54.50	49.90	58.46	0.00	0.00
55.00	49.90	58.34	0.00	0.00
55.50	49.90	58.22	0.00	0.00
56.00	49.89	58.10	0.00	0.00
56.50	49.88	57.98	0.00	0.00
57.00	49.88	57.86	0.00	0.00
57.50	49.87	57.74	0.00	0.00
58.00	49.85	57.62	0.00	0.00
58.50	49.84	57.50	0.00	0.00
59.00	49.83	57.38	0.00	0.00
59.50	49.81	57.26	0.00	0.00
60.00	49.80	57.13	0.00	0.00
60.50	49.78	57.01	0.00	0.00
61.00	49.76	56.89	0.00	0.00
61.50	49.74	56.77	0.00	0.00
62.00	49.71	56.65	0.00	0.00
62.50	49.69	56.53	0.00	0.00
63.00	49.67	56.41	0.00	0.00
63.50	49.64	56.29	0.00	0.00
64.00	49.61	56.17	0.00	0.00
64.50	49.58	56.05	0.00	0.00
65.00	49.55	55.93	0.00	0.00
65.50	49.52	55.80	0.00	0.00
66.00	49.49	55.68	0.00	0.00
66.50	49.46	55.56	0.00	0.00
67.00	49.42	55.44	0.00	0.00
67.50	49.39	55.32	0.00	0.00
68.00	49.35	55.20	0.00	0.00
68.50	49.31	55.08	0.00	0.00
69.00	49.27	54.96	0.00	0.00
69.50	49.23	54.84	0.00	0.00
70.00	49.19	54.72	0.00	0.00
70.00	0.03	0.04	0.00	0.00
70.50	50.02	88.12	0.00	0.00
71.00	50.02	87.96	0.00	0.00
71.50	49.97	87.75	0.00	0.00
72.00	49.93	87.53	0.00	0.00
72.50	49.88	87.31	0.00	0.00
73.00	49.84	87.09	0.00	0.00
73.50	49.79	86.88	0.00	0.00
73.50	0.03	0.06	0.00	0.00
74.00	49.71	46.29	0.00	0.00
74.50	49.69	46.23	0.00	0.00
75.00	49.64	46.13	0.00	0.00
75.50	49.59	46.03	0.00	0.00
76.00	49.54	45.94	0.00	0.00
76.50	49.49	45.84	0.00	0.00
77.00	49.43	45.74	0.00	0.00
77.50	49.38	45.65	0.00	0.00
78.00	49.32	45.55	0.00	0.00
78.50	49.27	45.45	0.00	0.00
79.00	49.21	45.36	0.00	0.00
79.50	49.15	45.26	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:00 AM
 Page: 43

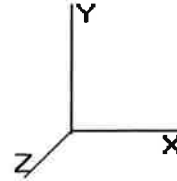
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W	105.00 mph with No Ice (Reduced DL)	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

80.00	49.09	45.17	0.00	0.00
80.50	49.03	45.07	0.00	0.00
81.00	48.97	44.97	0.00	0.00
81.50	48.90	44.88	0.00	0.00
82.00	48.84	44.78	0.00	0.00
82.50	48.78	44.68	0.00	0.00
83.00	48.71	44.59	0.00	0.00
83.50	48.65	44.49	0.00	0.00
84.00	48.58	44.39	0.00	0.00
84.50	48.51	44.30	0.00	0.00
85.00	48.44	44.20	0.00	0.00
85.50	48.37	44.10	0.00	0.00
86.00	48.30	44.01	0.00	0.00
86.50	48.23	43.91	0.00	0.00
87.00	48.16	43.81	0.00	0.00
87.50	48.09	43.72	0.00	0.00
88.00	48.01	43.62	0.00	0.00
88.50	47.94	43.52	0.00	0.00
89.00	47.86	43.43	0.00	0.00
89.50	47.79	43.33	0.00	0.00
90.00	47.71	43.23	0.00	0.00
90.50	47.63	43.14	0.00	0.00
91.00	47.55	43.04	0.00	0.00
91.50	47.48	42.94	0.00	0.00
92.00	47.40	42.85	0.00	0.00
92.50	47.31	42.75	0.00	0.00
93.00	47.23	42.65	0.00	0.00
93.50	47.15	42.56	0.00	0.00
94.00	47.07	42.46	0.00	0.00
94.50	46.98	42.36	0.00	0.00
95.00	46.90	42.27	0.00	0.00
95.50	46.81	42.17	0.00	0.00
96.00	46.73	42.07	0.00	0.00
96.50	46.64	41.98	0.00	0.00
97.00	46.56	41.88	0.00	0.00
97.50	46.47	41.78	0.00	0.00
98.00	46.38	41.69	0.00	0.00
98.50	46.29	41.59	0.00	0.00
99.00	46.20	41.49	0.00	0.00
99.50	46.11	41.40	0.00	0.00
100.0	46.02	41.30	0.00	0.00
100.5	45.92	41.21	0.00	0.00
101.0	45.83	41.11	0.00	0.00
101.5	45.74	41.01	0.00	0.00
102.0	45.64	40.92	0.00	0.00
102.5	45.55	40.82	0.00	0.00
103.0	45.45	40.72	0.00	0.00
103.5	45.36	40.63	0.00	0.00
104.0	45.26	40.53	0.00	0.00
104.5	45.16	40.43	0.00	0.00
105.0	45.06	40.34	0.00	0.00
105.5	44.96	40.24	0.00	0.00
106.0	44.87	40.14	0.00	0.00
106.5	44.77	40.05	0.00	0.00
107.0	44.66	39.95	0.00	0.00
107.5	44.56	39.85	0.00	0.00
108.0	44.46	39.76	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:00 AM
 Page: 44

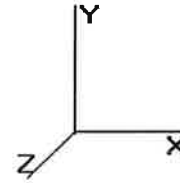
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W 105.00 mph with No Ice (Reduced DL) 45 Iterations
Gust Response Factor : 1.10 **Wind Importance Factor :** 1.00
Dead Load Factor : 0.90
Wind Load Factor : 1.60

108.5	44.36	39.66	0.00	0.00
109.0	44.26	39.56	0.00	0.00
109.5	44.15	39.47	0.00	0.00
110.0	44.05	39.37	0.00	0.00
110.0	0.03	0.03	0.00	0.00
110.5	43.91	32.90	0.00	0.00
111.0	43.84	32.85	0.00	0.00
111.5	43.73	32.77	0.00	0.00
112.0	43.62	32.70	0.00	0.00
112.5	43.52	32.63	0.00	0.00
113.0	43.41	32.55	0.00	0.00
113.5	43.30	32.48	0.00	0.00
114.0	3,324.44	1,326.97	0.00	0.00
114.5	43.08	27.32	0.00	0.00
115.0	42.97	27.25	0.00	0.00
115.5	42.86	27.18	0.00	0.00
116.0	42.75	27.11	0.00	0.00
116.5	42.64	27.03	0.00	0.00
117.0	42.52	26.96	0.00	0.00
117.5	42.41	26.89	0.00	0.00
118.0	42.30	26.82	0.00	0.00
118.5	42.18	26.74	0.00	0.00
119.0	42.07	26.67	0.00	0.00
119.5	41.95	26.60	0.00	0.00
120.0	41.83	26.53	0.00	0.00
120.5	41.72	26.45	0.00	0.00
121.0	41.60	26.38	0.00	0.00
121.5	41.48	26.31	0.00	0.00
122.0	41.37	26.23	0.00	0.00
122.5	41.25	26.16	0.00	0.00
123.0	41.13	26.09	0.00	0.00
123.5	41.01	26.02	0.00	0.00
124.0	40.89	25.94	0.00	0.00
124.5	40.77	25.87	0.00	0.00
125.0	40.65	25.80	0.00	0.00
125.5	40.52	25.73	0.00	0.00
126.0	40.40	25.65	0.00	0.00
126.5	40.28	25.58	0.00	0.00
127.0	40.16	25.51	0.00	0.00
127.5	40.03	25.44	0.00	0.00
128.0	39.91	25.36	0.00	0.00
128.5	39.78	25.29	0.00	0.00
129.0	39.66	25.22	0.00	0.00
129.5	39.53	25.15	0.00	0.00
130.0	39.40	25.07	0.00	0.00
130.5	39.28	25.00	0.00	0.00
131.0	39.15	24.93	0.00	0.00
131.5	39.02	24.85	0.00	0.00
132.0	38.89	24.78	0.00	0.00
132.5	38.77	24.71	0.00	0.00
133.0	38.64	24.64	0.00	0.00
133.5	38.51	24.56	0.00	0.00
134.0	38.38	24.49	0.00	0.00
134.5	38.25	24.42	0.00	0.00
135.0	38.11	24.35	0.00	0.00
135.5	37.98	24.27	0.00	0.00
136.0	37.85	24.20	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:00 AM
 Page: 45

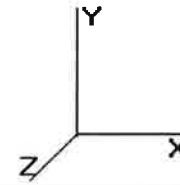
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W	105.00 mph with No Ice (Reduced DL)	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

136.5	37.72	24.13	0.00	0.00
137.0	37.59	24.06	0.00	0.00
137.5	37.45	23.98	0.00	0.00
138.0	37.32	23.91	0.00	0.00
138.5	37.18	23.84	0.00	0.00
139.0	37.05	23.77	0.00	0.00
139.5	36.91	23.69	0.00	0.00
140.0	36.78	23.62	0.00	0.00
140.5	36.64	23.55	0.00	0.00
141.0	36.50	23.47	0.00	0.00
141.5	36.37	23.40	0.00	0.00
142.0	36.23	23.33	0.00	0.00
142.5	36.09	23.26	0.00	0.00
143.0	35.95	23.18	0.00	0.00
143.5	35.81	23.11	0.00	0.00
144.0	35.68	23.04	0.00	0.00
144.5	35.54	22.97	0.00	0.00
145.0	35.40	22.89	0.00	0.00
145.5	35.25	22.82	0.00	0.00
146.0	35.11	22.75	0.00	0.00
146.5	34.97	22.68	0.00	0.00
147.0	34.83	22.60	0.00	0.00
147.5	34.69	22.53	0.00	0.00
148.0	34.55	22.46	0.00	0.00
148.5	34.40	22.39	0.00	0.00
149.0	4,557.02	2,593.97	0.00	12,161.17
149.5	34.11	13.84	0.00	0.00
150.0	33.97	13.77	0.00	0.00
Totals:	23,585.52	22,549.86	0.00	12,161.17

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:01 AM
 Page: 51

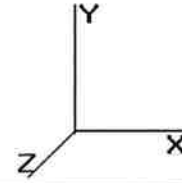
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W	105.00 mph with No Ice (Reduced DL)	45 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

136.00	-2.10	-6.03	0.00	-84.18	0.00	84.18	749.65	374.82	524.63	259.10	136.08	-10.85	0.328
136.50	-2.08	-5.99	0.00	-81.17	0.00	81.17	747.32	373.66	520.57	257.09	137.21	-10.88	0.319
137.00	-2.06	-5.95	0.00	-78.17	0.00	78.17	744.98	372.49	516.51	255.08	138.35	-10.91	0.309
137.50	-2.04	-5.91	0.00	-75.20	0.00	75.20	742.63	371.31	512.46	253.08	139.48	-10.94	0.300
138.00	-2.03	-5.87	0.00	-72.24	0.00	72.24	740.26	370.13	508.41	251.09	140.63	-10.97	0.291
138.50	-2.01	-5.83	0.00	-69.31	0.00	69.31	737.89	368.95	504.38	249.09	141.77	-11.00	0.281
139.00	-1.99	-5.79	0.00	-66.39	0.00	66.39	735.51	367.75	500.35	247.11	142.91	-11.03	0.272
139.50	-1.97	-5.75	0.00	-63.50	0.00	63.50	733.12	366.56	496.34	245.12	144.06	-11.05	0.262
140.00	-1.95	-5.71	0.00	-60.62	0.00	60.62	730.85	365.43	492.42	243.19	145.22	-11.08	0.252
140.50	-1.93	-5.67	0.00	-57.77	0.00	57.77	727.36	363.68	487.70	240.85	146.37	-11.10	0.243
141.00	-1.91	-5.63	0.00	-54.93	0.00	54.93	723.86	361.93	482.99	238.53	147.53	-11.13	0.233
141.50	-1.89	-5.59	0.00	-52.12	0.00	52.12	720.37	360.18	478.31	236.22	148.69	-11.15	0.223
142.00	-1.88	-5.55	0.00	-49.32	0.00	49.32	716.87	358.43	473.65	233.92	149.85	-11.17	0.214
142.50	-1.86	-5.51	0.00	-46.54	0.00	46.54	713.37	356.69	469.02	231.63	151.01	-11.19	0.204
143.00	-1.84	-5.47	0.00	-43.79	0.00	43.79	709.88	354.94	464.40	229.35	152.18	-11.21	0.194
143.50	-1.82	-5.44	0.00	-41.05	0.00	41.05	706.38	353.19	459.81	227.09	153.35	-11.23	0.184
144.00	-1.81	-5.40	0.00	-38.33	0.00	38.33	702.88	351.44	455.25	224.83	154.52	-11.25	0.173
144.50	-1.79	-5.36	0.00	-35.63	0.00	35.63	699.39	349.69	450.70	222.59	155.69	-11.27	0.163
145.00	-1.77	-5.32	0.00	-32.95	0.00	32.95	695.89	347.95	446.18	220.35	156.86	-11.29	0.152
145.50	-1.76	-5.28	0.00	-30.29	0.00	30.29	692.40	346.20	441.68	218.13	158.04	-11.30	0.142
146.00	-1.74	-5.24	0.00	-27.65	0.00	27.65	688.90	344.45	437.21	215.92	159.21	-11.32	0.131
146.50	-1.72	-5.20	0.00	-25.03	0.00	25.03	685.40	342.70	432.75	213.72	160.39	-11.33	0.120
147.00	-1.71	-5.17	0.00	-22.43	0.00	22.43	681.91	340.95	428.32	211.53	161.57	-11.34	0.109
147.50	-1.69	-5.13	0.00	-19.85	0.00	19.85	678.41	339.21	423.92	209.36	162.75	-11.35	0.098
148.00	-1.67	-5.09	0.00	-17.29	0.00	17.29	674.91	337.46	419.53	207.19	163.93	-11.36	0.086
148.50	-1.66	-5.05	0.00	-14.74	0.00	14.74	671.42	335.71	415.17	205.04	165.12	-11.37	0.075
149.00	-0.01	-0.07	0.00	-0.05	0.00	0.05	667.92	333.96	410.83	202.89	166.30	-11.38	0.000
149.50	-0.01	-0.04	0.00	-0.02	0.00	0.02	664.43	332.21	406.52	200.76	167.48	-11.38	0.000
150.00	0.00	-0.03	0.00	0.00	0.00	0.00	660.93	330.47	402.22	198.64	168.67	-11.38	0.000

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:02 AM
 Page: 57

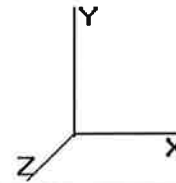
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 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		

137.0	1.00	1.08	6.574	7.231	0.000	1.200	1.729	0.50	0.881	1.06	7.6	21.0	41.8
137.5	1.00	1.08	6.581	7.239	0.000	1.200	1.730	0.50	0.877	1.05	7.6	20.9	41.7
138.0	1.00	1.08	6.588	7.246	0.000	1.200	1.731	0.50	0.874	1.05	7.6	20.8	41.5
138.5	1.00	1.08	6.594	7.254	0.000	1.200	1.731	0.50	0.871	1.04	7.6	20.7	41.3
139.0	1.00	1.08	6.601	7.261	0.000	1.200	1.732	0.50	0.867	1.04	7.6	20.7	41.1
139.5	1.00	1.08	6.608	7.269	0.000	1.200	1.733	0.50	0.864	1.04	7.5	20.6	41.0
140.0	1.00	1.08	6.615	7.276	0.000	1.200	1.733	0.50	0.861	1.03	7.5	20.5	40.8
140.5	1.00	1.08	6.621	7.284	0.000	1.200	1.734	0.50	0.857	1.03	7.5	20.4	40.6
141.0	1.00	1.09	6.628	7.291	0.000	1.200	1.734	0.50	0.854	1.02	7.5	20.3	40.4
141.5	1.00	1.09	6.635	7.298	0.000	1.200	1.735	0.50	0.851	1.02	7.5	20.3	40.3
142.0	1.00	1.09	6.642	7.306	0.000	1.200	1.736	0.50	0.847	1.02	7.4	20.2	40.1
142.5	1.00	1.09	6.648	7.313	0.000	1.200	1.736	0.50	0.844	1.01	7.4	20.1	39.9
143.0	1.00	1.09	6.655	7.320	0.000	1.200	1.737	0.50	0.841	1.01	7.4	20.0	39.7
143.5	1.00	1.09	6.662	7.328	0.000	1.200	1.738	0.50	0.837	1.00	7.4	19.9	39.5
144.0	1.00	1.09	6.668	7.335	0.000	1.200	1.738	0.50	0.834	1.00	7.3	19.9	39.4
144.5	1.00	1.09	6.675	7.342	0.000	1.200	1.739	0.50	0.831	1.00	7.3	19.8	39.2
145.0	1.00	1.09	6.681	7.350	0.000	1.200	1.739	0.50	0.827	0.99	7.3	19.7	39.0
145.5	1.00	1.10	6.688	7.357	0.000	1.200	1.740	0.50	0.824	0.99	7.3	19.6	38.8
146.0	1.00	1.10	6.695	7.364	0.000	1.200	1.741	0.50	0.821	0.98	7.3	19.5	38.7
146.5	1.00	1.10	6.701	7.371	0.000	1.200	1.741	0.50	0.817	0.98	7.2	19.4	38.5
147.0	1.00	1.10	6.708	7.378	0.000	1.200	1.742	0.50	0.814	0.98	7.2	19.4	38.3
147.5	1.00	1.10	6.714	7.386	0.000	1.200	1.742	0.50	0.811	0.97	7.2	19.3	38.1
148.0	1.00	1.10	6.721	7.393	0.000	1.200	1.743	0.50	0.807	0.97	7.2	19.2	37.9
148.5	1.00	1.10	6.727	7.400	0.000	1.200	1.743	0.50	0.804	0.97	7.1	19.1	37.8
149.0	1.00	1.10	6.734	7.407	0.000	1.200	1.744	0.50	0.801	0.96	7.1	19.0	37.6
149.5	1.00	1.10	6.740	7.414	0.000	1.200	1.745	0.50	0.798	0.96	7.1	19.0	37.4
150.0	1.00	1.11	6.746	7.421	0.000	1.200	1.745	0.50	0.794	0.95	7.1	18.9	37.2
* = Cf Adjusted By Linear Load Ra Effect							Totals:	150.00			2,648.6	8,455.2	27,587.5

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:02 AM
 Page: 58

© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 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)

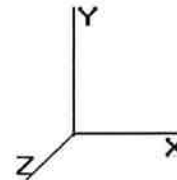
Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
39.00	0.5' Omni	1	4.591	5.050	1.00	1.00	0.22	0.000	0.000	1.12	0.00	0.00	12.70
39.00	Flat Side Arm	1	4.591	5.050	1.00	1.00	3.35	0.000	0.000	16.94	0.00	0.00	56.35
114.0	RFS DB-T1-6Z-8AB-0Z	1	6.238	6.861	0.67	0.80	3.03	0.000	0.000	20.77	0.00	0.00	191.96
114.0	Alcatel-Lucent RRH 2	3	6.238	6.861	0.50	0.80	2.93	0.000	0.000	20.11	0.00	0.00	348.93
114.0	Alcatel-Lucent RRH2X	3	6.238	6.861	0.50	0.80	5.49	0.000	0.000	37.64	0.00	0.00	449.52
114.0	Commscope HBXX-	6	6.238	6.861	0.68	0.80	40.45	0.000	0.000	277.58	0.00	0.00	1,956.21
114.0	Antel BXA-70063/6CF-	3	6.238	6.861	0.66	0.80	13.91	0.000	0.000	95.45	0.00	0.00	546.38
114.0	Round T-Arms	3	6.238	6.861	0.67	0.75	22.05	0.000	0.000	151.31	0.00	0.00	1,319.27
114.0	Antel BXA-70080-4CF-	3	6.238	6.861	0.72	0.80	7.66	0.000	0.000	52.55	0.00	0.00	353.43
114.0	RFS FD9R6004/2C-3L	6	6.238	6.861	0.50	0.80	1.38	0.000	0.000	9.44	0.00	0.00	97.93
149.0	Powerwave LGP21401	6	6.797	7.477	0.50	0.75	3.52	0.000	5.000	26.30	0.00	131.50	303.22
149.0	Powerwave LGP21902	6	6.797	7.477	0.50	0.75	1.06	0.000	5.000	7.93	0.00	39.66	120.83
149.0	Flat Platform w/ Han	1	6.734	7.407	1.00	1.00	59.81	0.000	0.000	443.02	0.00	0.00	3,373.13
149.0	KMW AM-X-CD-17-65-	2	6.797	7.477	0.68	0.75	13.23	0.000	5.000	98.90	0.00	494.52	637.62
149.0	Andrew SBNH-	1	6.797	7.477	0.70	0.75	6.88	0.000	5.000	51.43	0.00	257.16	336.33
149.0	Powerwave 7770.00	6	6.797	7.477	0.65	0.75	19.20	0.000	5.000	143.57	0.00	717.83	1,062.37
149.0	Ericsson RRUS-11	6	6.797	7.477	0.50	0.75	10.31	0.000	5.000	77.10	0.00	385.48	1,027.13
149.0	Raycap DC6-48-60-18-	1	6.797	7.477	1.00	0.75	1.89	0.000	5.000	14.15	0.00	70.76	104.51
										1,545.32			12,297.84

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:02 AM

Page: 59



© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 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		

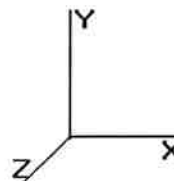
Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	FX (lb)	Dead Load (lb)
0.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.42	0.50	4.256	0.207	0.000	2.33	5.47
1.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.42	0.51	4.256	0.207	0.000	2.37	5.84
1.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.43	0.51	4.256	0.208	0.000	2.39	6.07
2.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.43	0.51	4.256	0.208	0.000	2.40	6.24
2.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.43	0.52	4.256	0.209	0.000	2.42	6.37
3.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.43	0.52	4.256	0.209	0.000	2.43	6.48
3.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.43	0.52	4.256	0.210	0.000	2.43	6.58
4.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.43	0.52	4.256	0.210	0.000	2.44	6.67
4.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.52	4.256	0.210	0.000	2.45	6.75
5.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.52	4.256	0.211	0.000	2.45	6.82
5.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.211	0.000	2.46	6.88
6.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.212	0.000	2.46	6.94
6.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.212	0.000	2.47	6.99
7.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.213	0.000	2.47	7.05
7.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.213	0.000	2.48	7.10
8.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.214	0.000	2.48	7.14
8.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.214	0.000	2.49	7.18
9.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.215	0.000	2.49	7.23
9.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.215	0.000	2.49	7.27
10.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.216	0.000	2.50	7.30
10.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.44	0.53	4.256	0.216	0.000	2.50	7.34
11.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.53	4.256	0.216	0.000	2.50	7.37
11.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.53	4.256	0.217	0.000	2.50	7.41
12.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.217	0.000	2.51	7.44
12.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.218	0.000	2.51	7.47
13.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.218	0.000	2.51	7.50
13.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.219	0.000	2.51	7.53
14.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.219	0.000	2.52	7.56
14.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.220	0.000	2.52	7.58
15.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.220	0.000	2.52	7.61
15.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.221	0.000	2.52	7.63
16.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.221	0.000	2.53	7.66
16.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.222	0.000	2.53	7.68
17.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.222	0.000	2.53	7.71
17.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.223	0.000	2.53	7.73
18.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.223	0.000	2.53	7.75
18.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.224	0.000	2.54	7.77
19.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.224	0.000	2.54	7.79
19.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.225	0.000	2.54	7.81
20.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.225	0.000	2.54	7.84
20.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.226	0.000	2.54	7.85
21.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.226	0.000	2.54	7.87
21.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.227	0.000	2.55	7.89
22.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.227	0.000	2.55	7.91
22.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.228	0.000	2.55	7.93
23.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.229	0.000	2.55	7.95
23.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.54	4.256	0.229	0.000	2.55	7.97
24.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.55	4.256	0.230	0.000	2.55	7.98
24.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.55	4.256	0.230	0.000	2.55	8.00
25.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.45	0.55	4.256	0.231	0.000	2.56	8.02
25.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.231	0.000	2.56	8.03

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:02 AM
 Page: 60



© 2007 - 2015 by ATC IP LLC. All rights reserved.

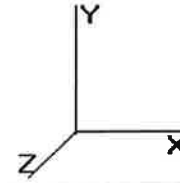
Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 43 Iterations

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

26.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.232	0.000	2.56	8.05
26.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.232	0.000	2.56	8.07
27.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.233	0.000	2.56	8.08
27.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.233	0.000	2.56	8.10
28.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.234	0.000	2.56	8.11
28.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.234	0.000	2.56	8.13
29.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.235	0.000	2.57	8.14
29.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.256	0.236	0.000	2.57	8.16
30.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.260	0.236	0.000	2.57	8.17
30.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.280	0.237	0.000	2.58	8.18
31.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.300	0.237	0.000	2.60	8.20
31.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.319	0.238	0.000	2.61	8.21
31.50	(4) #20 Dywidag	Yes	0.00	1.200	8.00	0.00	0.00	4.319	0.238	0.000	0.00	0.01
32.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.339	0.238	0.000	2.62	8.22
32.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.358	0.239	0.000	2.64	8.24
33.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.377	0.240	0.000	2.65	8.25
33.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.396	0.240	0.000	2.66	8.26
34.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.415	0.241	0.000	2.67	8.28
34.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.433	0.241	0.000	2.69	8.29
35.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.451	0.242	0.000	2.70	8.30
35.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.469	0.243	0.000	2.71	8.31
35.67	(4) #20 Dywidag	Yes	0.17	1.200	8.00	0.15	0.18	4.475	0.243	0.000	0.91	2.78
36.00	(4) #20 Dywidag	Yes	0.33	1.200	8.00	0.31	0.37	4.487	0.239	0.000	1.81	5.55
36.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.505	0.239	0.000	2.73	8.34
37.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.523	0.240	0.000	2.74	8.35
37.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.540	0.240	0.000	2.76	8.36
38.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.557	0.241	0.000	2.77	8.37
38.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.574	0.241	0.000	2.78	8.38
39.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.591	0.242	0.000	2.79	8.40
39.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.608	0.243	0.000	2.80	8.41
40.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.625	0.243	0.000	2.81	8.42
40.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.641	0.244	0.000	2.82	8.43
41.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.657	0.244	0.000	2.83	8.44
41.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.673	0.245	0.000	2.85	8.45
42.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.689	0.246	0.000	2.86	8.46
42.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.705	0.246	0.000	2.87	8.47
43.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.721	0.247	0.000	2.88	8.48
43.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.737	0.247	0.000	2.89	8.49
44.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.752	0.248	0.000	2.90	8.50
44.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.768	0.249	0.000	2.91	8.51
45.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.783	0.249	0.000	2.92	8.52
45.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.55	4.798	0.250	0.000	2.93	8.53
46.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.813	0.251	0.000	2.94	8.54
46.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.828	0.251	0.000	2.95	8.55
47.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.843	0.252	0.000	2.96	8.56
47.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.857	0.253	0.000	2.97	8.57
48.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.872	0.253	0.000	2.98	8.58
48.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.886	0.254	0.000	2.99	8.59
49.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.901	0.254	0.000	3.00	8.60
49.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.915	0.255	0.000	3.01	8.61
50.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.929	0.256	0.000	3.02	8.62
50.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.943	0.256	0.000	3.03	8.63
51.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.957	0.257	0.000	3.04	8.64
51.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.971	0.258	0.000	3.04	8.64
52.00	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.984	0.258	0.000	3.05	8.65
52.50	(4) #20 Dywidag	Yes	0.50	1.200	8.00	0.46	0.56	4.998	0.259	0.000	3.06	8.66

Pole : 302498
Location : Plainfield CT 6, CT
Height : 150.0 (ft)
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:02 AM
Page: 61

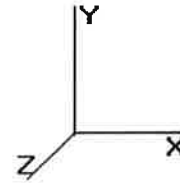
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 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		

Totals: 278.15 826.78

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:02 AM
 Page: 62

© 2007 - 2015 by ATC IP LLC. All rights reserved.

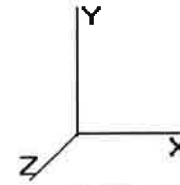
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

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
0.50	11.85	154.47	0.00	0.00
1.00	11.89	156.39	0.00	0.00
1.50	11.91	157.48	0.00	0.00
2.00	11.93	158.22	0.00	0.00
2.50	11.93	158.76	0.00	0.00
3.00	11.93	159.16	0.00	0.00
3.50	11.93	159.47	0.00	0.00
4.00	11.93	159.71	0.00	0.00
4.50	11.92	159.90	0.00	0.00
5.00	11.91	160.04	0.00	0.00
5.50	11.91	178.12	0.00	0.00
6.00	11.90	178.20	0.00	0.00
6.50	11.89	178.25	0.00	0.00
7.00	11.88	178.29	0.00	0.00
7.50	11.87	178.30	0.00	0.00
8.00	11.86	178.30	0.00	0.00
8.50	11.84	178.28	0.00	0.00
9.00	11.83	178.25	0.00	0.00
9.50	11.82	178.20	0.00	0.00
10.00	11.81	178.15	0.00	0.00
10.50	11.79	178.09	0.00	0.00
11.00	11.78	178.02	0.00	0.00
11.50	11.77	177.94	0.00	0.00
12.00	11.75	177.85	0.00	0.00
12.50	11.74	177.75	0.00	0.00
13.00	11.73	177.65	0.00	0.00
13.50	11.71	177.55	0.00	0.00
14.00	11.70	177.43	0.00	0.00
14.50	11.68	177.32	0.00	0.00
15.00	11.67	177.19	0.00	0.00
15.50	11.65	177.07	0.00	0.00
16.00	11.64	176.93	0.00	0.00
16.50	11.62	176.80	0.00	0.00
17.00	11.61	176.66	0.00	0.00
17.50	11.59	176.52	0.00	0.00
18.00	11.58	176.37	0.00	0.00
18.50	11.56	176.22	0.00	0.00
19.00	11.55	176.07	0.00	0.00
19.50	11.53	175.91	0.00	0.00
20.00	11.52	175.75	0.00	0.00
20.50	11.50	175.59	0.00	0.00
21.00	11.49	175.43	0.00	0.00
21.50	11.47	175.26	0.00	0.00
22.00	11.45	175.09	0.00	0.00
22.50	11.44	174.92	0.00	0.00
23.00	11.42	174.75	0.00	0.00
23.50	11.41	174.57	0.00	0.00
24.00	11.39	174.40	0.00	0.00
24.50	11.37	174.22	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:02 AM
 Page: 63

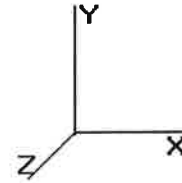
©2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 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	11.36	174.04	0.00	0.00
25.50	11.34	173.85	0.00	0.00
26.00	11.32	173.67	0.00	0.00
26.50	11.31	173.48	0.00	0.00
27.00	11.29	173.29	0.00	0.00
27.50	11.28	173.10	0.00	0.00
28.00	11.26	172.91	0.00	0.00
28.50	11.24	172.72	0.00	0.00
29.00	11.23	172.53	0.00	0.00
29.50	11.21	172.33	0.00	0.00
30.00	11.20	172.13	0.00	0.00
30.50	11.24	171.94	0.00	0.00
31.00	11.27	171.74	0.00	0.00
31.50	11.31	171.54	0.00	0.00
31.50	0.01	0.12	0.00	0.00
32.00	11.49	239.10	0.00	0.00
32.50	11.53	238.90	0.00	0.00
33.00	11.56	238.54	0.00	0.00
33.50	11.60	238.17	0.00	0.00
34.00	11.63	237.80	0.00	0.00
34.50	11.66	237.44	0.00	0.00
35.00	11.69	237.07	0.00	0.00
35.50	11.72	236.70	0.00	0.00
35.67	3.92	78.98	0.00	0.00
36.00	7.82	105.82	0.00	0.00
36.50	11.78	158.73	0.00	0.00
37.00	11.80	158.55	0.00	0.00
37.50	11.83	158.37	0.00	0.00
38.00	11.86	158.19	0.00	0.00
38.50	11.88	158.01	0.00	0.00
39.00	29.97	226.88	0.00	0.00
39.50	11.93	157.55	0.00	0.00
40.00	11.96	157.37	0.00	0.00
40.50	11.98	157.18	0.00	0.00
41.00	12.00	157.00	0.00	0.00
41.50	12.03	156.81	0.00	0.00
42.00	12.05	156.62	0.00	0.00
42.50	12.07	156.43	0.00	0.00
43.00	12.09	156.25	0.00	0.00
43.50	12.11	156.06	0.00	0.00
44.00	12.13	155.87	0.00	0.00
44.50	12.15	155.67	0.00	0.00
45.00	12.17	155.48	0.00	0.00
45.50	12.19	155.29	0.00	0.00
46.00	12.21	155.10	0.00	0.00
46.50	12.23	121.50	0.00	0.00
47.00	12.25	121.31	0.00	0.00
47.50	12.26	121.11	0.00	0.00
48.00	12.28	120.92	0.00	0.00
48.50	12.30	120.72	0.00	0.00
49.00	12.31	120.53	0.00	0.00
49.50	12.33	120.33	0.00	0.00
50.00	12.34	120.13	0.00	0.00
50.50	12.36	119.93	0.00	0.00
51.00	12.37	119.73	0.00	0.00
51.50	12.39	119.54	0.00	0.00
52.00	12.40	119.34	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:02 AM
 Page: 64

© 2007 - 2015 by ATC IP LLC. All rights reserved.

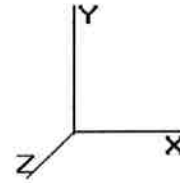
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

52.50	12.41	119.14	0.00	0.00
53.00	9.35	110.26	0.00	0.00
53.50	9.36	110.05	0.00	0.00
54.00	9.36	109.84	0.00	0.00
54.50	9.36	109.63	0.00	0.00
55.00	9.37	109.42	0.00	0.00
55.50	9.37	109.21	0.00	0.00
56.00	9.37	109.00	0.00	0.00
56.50	9.37	108.79	0.00	0.00
57.00	9.37	108.57	0.00	0.00
57.50	9.38	108.36	0.00	0.00
58.00	9.38	108.15	0.00	0.00
58.50	9.38	107.93	0.00	0.00
59.00	9.38	107.72	0.00	0.00
59.50	9.38	107.51	0.00	0.00
60.00	9.38	107.29	0.00	0.00
60.50	9.38	107.08	0.00	0.00
61.00	9.38	106.86	0.00	0.00
61.50	9.38	106.65	0.00	0.00
62.00	9.38	106.43	0.00	0.00
62.50	9.37	106.21	0.00	0.00
63.00	9.37	106.00	0.00	0.00
63.50	9.37	105.78	0.00	0.00
64.00	9.37	105.56	0.00	0.00
64.50	9.37	105.34	0.00	0.00
65.00	9.37	105.13	0.00	0.00
65.50	9.36	104.91	0.00	0.00
66.00	9.36	104.69	0.00	0.00
66.50	9.36	104.47	0.00	0.00
67.00	9.35	104.25	0.00	0.00
67.50	9.35	104.03	0.00	0.00
68.00	9.35	103.81	0.00	0.00
68.50	9.34	103.59	0.00	0.00
69.00	9.34	103.37	0.00	0.00
69.50	9.34	103.15	0.00	0.00
70.00	9.33	102.93	0.00	0.00
70.00	0.01	0.07	0.00	0.00
70.50	9.47	147.92	0.00	0.00
71.00	9.48	147.67	0.00	0.00
71.50	9.47	147.32	0.00	0.00
72.00	9.47	146.97	0.00	0.00
72.50	9.46	146.62	0.00	0.00
73.00	9.46	146.27	0.00	0.00
73.50	9.45	145.92	0.00	0.00
73.50	0.01	0.10	0.00	0.00
74.00	9.44	91.72	0.00	0.00
74.50	9.44	91.60	0.00	0.00
75.00	9.43	91.41	0.00	0.00
75.50	9.43	91.21	0.00	0.00
76.00	9.42	91.02	0.00	0.00
76.50	9.42	90.83	0.00	0.00
77.00	9.41	90.64	0.00	0.00
77.50	9.40	90.45	0.00	0.00
78.00	9.39	90.26	0.00	0.00
78.50	9.39	90.07	0.00	0.00
79.00	9.38	89.87	0.00	0.00
79.50	9.37	89.68	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:02 AM
 Page: 65



© 2007 - 2015 by ATC IP LLC. All rights reserved.

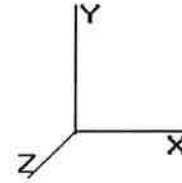
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

80.00	9.36	89.49	0.00	0.00
80.50	9.36	89.30	0.00	0.00
81.00	9.35	89.10	0.00	0.00
81.50	9.34	88.91	0.00	0.00
82.00	9.33	88.72	0.00	0.00
82.50	9.32	88.52	0.00	0.00
83.00	9.32	88.33	0.00	0.00
83.50	9.31	88.14	0.00	0.00
84.00	9.30	87.94	0.00	0.00
84.50	9.29	87.75	0.00	0.00
85.00	9.28	87.55	0.00	0.00
85.50	9.27	87.36	0.00	0.00
86.00	9.26	87.16	0.00	0.00
86.50	9.25	86.97	0.00	0.00
87.00	9.24	86.77	0.00	0.00
87.50	9.23	86.58	0.00	0.00
88.00	9.22	86.38	0.00	0.00
88.50	9.21	86.19	0.00	0.00
89.00	9.20	85.99	0.00	0.00
89.50	9.19	85.79	0.00	0.00
90.00	9.18	85.60	0.00	0.00
90.50	9.17	85.40	0.00	0.00
91.00	9.16	85.20	0.00	0.00
91.50	9.14	85.01	0.00	0.00
92.00	9.13	84.81	0.00	0.00
92.50	9.12	84.61	0.00	0.00
93.00	9.11	84.41	0.00	0.00
93.50	9.10	84.22	0.00	0.00
94.00	9.09	84.02	0.00	0.00
94.50	9.07	83.82	0.00	0.00
95.00	9.06	83.62	0.00	0.00
95.50	9.05	83.42	0.00	0.00
96.00	9.04	83.23	0.00	0.00
96.50	9.02	83.03	0.00	0.00
97.00	9.01	82.83	0.00	0.00
97.50	9.00	82.63	0.00	0.00
98.00	8.99	82.43	0.00	0.00
98.50	8.97	82.23	0.00	0.00
99.00	8.96	82.03	0.00	0.00
99.50	8.95	81.83	0.00	0.00
100.0	8.93	81.63	0.00	0.00
100.5	8.92	81.43	0.00	0.00
101.0	8.91	81.23	0.00	0.00
101.5	8.89	81.03	0.00	0.00
102.0	8.88	80.83	0.00	0.00
102.5	8.86	80.63	0.00	0.00
103.0	8.85	80.43	0.00	0.00
103.5	8.84	80.23	0.00	0.00
104.0	8.82	80.03	0.00	0.00
104.5	8.81	79.83	0.00	0.00
105.0	8.79	79.63	0.00	0.00
105.5	8.78	79.43	0.00	0.00
106.0	8.76	79.23	0.00	0.00
106.5	8.75	79.02	0.00	0.00
107.0	8.73	78.82	0.00	0.00
107.5	8.72	78.62	0.00	0.00
108.0	8.70	78.42	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:02 AM
 Page: 66



© 2007 - 2015 by ATC IP LLC. All rights reserved.

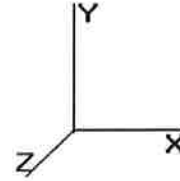
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

108.5	8.69	78.22	0.00	0.00
109.0	8.67	78.02	0.00	0.00
109.5	8.66	77.81	0.00	0.00
110.0	8.64	77.61	0.00	0.00
110.0	0.01	0.05	0.00	0.00
110.5	8.62	68.89	0.00	0.00
111.0	8.61	68.76	0.00	0.00
111.5	8.59	68.59	0.00	0.00
112.0	8.58	68.42	0.00	0.00
112.5	8.56	68.25	0.00	0.00
113.0	8.54	68.08	0.00	0.00
113.5	8.53	67.91	0.00	0.00
114.0	673.36	5,331.36	0.00	0.00
114.5	8.49	60.88	0.00	0.00
115.0	8.48	60.71	0.00	0.00
115.5	8.46	60.54	0.00	0.00
116.0	8.44	60.37	0.00	0.00
116.5	8.43	60.19	0.00	0.00
117.0	8.41	60.02	0.00	0.00
117.5	8.39	59.85	0.00	0.00
118.0	8.37	59.68	0.00	0.00
118.5	8.36	59.50	0.00	0.00
119.0	8.34	59.33	0.00	0.00
119.5	8.32	59.16	0.00	0.00
120.0	8.30	58.99	0.00	0.00
120.5	8.29	58.81	0.00	0.00
121.0	8.27	58.64	0.00	0.00
121.5	8.25	58.47	0.00	0.00
122.0	8.23	58.29	0.00	0.00
122.5	8.21	58.12	0.00	0.00
123.0	8.19	57.95	0.00	0.00
123.5	8.18	57.77	0.00	0.00
124.0	8.16	57.60	0.00	0.00
124.5	8.14	57.43	0.00	0.00
125.0	8.12	57.25	0.00	0.00
125.5	8.10	57.08	0.00	0.00
126.0	8.08	56.90	0.00	0.00
126.5	8.06	56.73	0.00	0.00
127.0	8.04	56.55	0.00	0.00
127.5	8.02	56.38	0.00	0.00
128.0	8.01	56.21	0.00	0.00
128.5	7.99	56.03	0.00	0.00
129.0	7.97	55.86	0.00	0.00
129.5	7.95	55.68	0.00	0.00
130.0	7.93	55.51	0.00	0.00
130.5	7.91	55.33	0.00	0.00
131.0	7.89	55.16	0.00	0.00
131.5	7.87	54.98	0.00	0.00
132.0	7.85	54.81	0.00	0.00
132.5	7.83	54.63	0.00	0.00
133.0	7.81	54.45	0.00	0.00
133.5	7.79	54.28	0.00	0.00
134.0	7.77	54.10	0.00	0.00
134.5	7.75	53.93	0.00	0.00
135.0	7.73	53.75	0.00	0.00
135.5	7.71	53.58	0.00	0.00
136.0	7.68	53.40	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:02 AM
 Page: 67



© 2007 - 2015 by ATC IP LLC. All rights reserved.

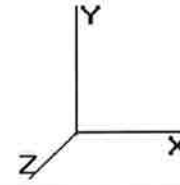
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

136.5	7.66	53.22	0.00	0.00
137.0	7.64	53.05	0.00	0.00
137.5	7.62	52.87	0.00	0.00
138.0	7.60	52.69	0.00	0.00
138.5	7.58	52.52	0.00	0.00
139.0	7.56	52.34	0.00	0.00
139.5	7.54	52.16	0.00	0.00
140.0	7.52	51.99	0.00	0.00
140.5	7.49	51.81	0.00	0.00
141.0	7.47	51.63	0.00	0.00
141.5	7.45	51.46	0.00	0.00
142.0	7.43	51.28	0.00	0.00
142.5	7.41	51.10	0.00	0.00
143.0	7.39	50.92	0.00	0.00
143.5	7.36	50.75	0.00	0.00
144.0	7.34	50.57	0.00	0.00
144.5	7.32	50.39	0.00	0.00
145.0	7.30	50.21	0.00	0.00
145.5	7.28	50.04	0.00	0.00
146.0	7.25	49.86	0.00	0.00
146.5	7.23	49.68	0.00	0.00
147.0	7.21	49.50	0.00	0.00
147.5	7.19	49.32	0.00	0.00
148.0	7.16	49.15	0.00	0.00
148.5	7.14	48.97	0.00	0.00
149.0	869.52	7,013.95	0.00	2,096.90
149.5	7.10	37.41	0.00	0.00
150.0	7.07	37.23	0.00	0.00
Totals:	4,472.04	45,401.13	0.00	2,096.90

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:03 AM
 Page: 73



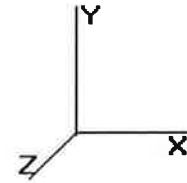
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	43 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		

136.00	-8.31	-1.42	0.00	-19.17	0.00	19.17	749.65	374.82	524.63	259.10	30.22	-2.44	0.085
136.50	-8.26	-1.42	0.00	-18.46	0.00	18.46	747.32	373.66	520.57	257.09	30.48	-2.45	0.083
137.00	-8.21	-1.41	0.00	-17.75	0.00	17.75	744.98	372.49	516.51	255.08	30.74	-2.46	0.081
137.50	-8.15	-1.40	0.00	-17.04	0.00	17.04	742.63	371.31	512.46	253.08	31.00	-2.46	0.078
138.00	-8.10	-1.39	0.00	-16.35	0.00	16.35	740.26	370.13	508.41	251.09	31.25	-2.47	0.076
138.50	-8.05	-1.38	0.00	-15.65	0.00	15.65	737.89	368.95	504.38	249.09	31.51	-2.48	0.074
139.00	-8.00	-1.37	0.00	-14.96	0.00	14.96	735.51	367.75	500.35	247.11	31.77	-2.48	0.071
139.50	-7.95	-1.36	0.00	-14.28	0.00	14.28	733.12	366.56	496.34	245.12	32.03	-2.49	0.069
140.00	-7.89	-1.35	0.00	-13.60	0.00	13.60	730.85	365.43	492.42	243.19	32.29	-2.49	0.067
140.50	-7.84	-1.34	0.00	-12.92	0.00	12.92	727.36	363.68	487.70	240.85	32.55	-2.50	0.064
141.00	-7.79	-1.34	0.00	-12.25	0.00	12.25	723.86	361.93	482.99	238.53	32.82	-2.50	0.062
141.50	-7.74	-1.33	0.00	-11.58	0.00	11.58	720.37	360.18	478.31	236.22	33.08	-2.51	0.060
142.00	-7.69	-1.32	0.00	-10.92	0.00	10.92	716.87	358.43	473.65	233.92	33.34	-2.51	0.057
142.50	-7.64	-1.31	0.00	-10.26	0.00	10.26	713.37	356.69	469.02	231.63	33.61	-2.52	0.055
143.00	-7.59	-1.30	0.00	-9.60	0.00	9.60	709.88	354.94	464.40	229.35	33.87	-2.52	0.053
143.50	-7.54	-1.29	0.00	-8.95	0.00	8.95	706.38	353.19	459.81	227.09	34.13	-2.53	0.050
144.00	-7.49	-1.28	0.00	-8.31	0.00	8.31	702.88	351.44	455.25	224.83	34.40	-2.53	0.048
144.50	-7.44	-1.27	0.00	-7.67	0.00	7.67	699.39	349.69	450.70	222.59	34.66	-2.54	0.045
145.00	-7.39	-1.26	0.00	-7.03	0.00	7.03	695.89	347.95	446.18	220.35	34.93	-2.54	0.043
145.50	-7.34	-1.25	0.00	-6.40	0.00	6.40	692.40	346.20	441.68	218.13	35.20	-2.54	0.040
146.00	-7.29	-1.24	0.00	-5.78	0.00	5.78	688.90	344.45	437.21	215.92	35.46	-2.55	0.037
146.50	-7.24	-1.24	0.00	-5.15	0.00	5.15	685.40	342.70	432.75	213.72	35.73	-2.55	0.035
147.00	-7.19	-1.23	0.00	-4.54	0.00	4.54	681.91	340.95	428.32	211.53	36.00	-2.55	0.032
147.50	-7.14	-1.22	0.00	-3.92	0.00	3.92	678.41	339.21	423.92	209.36	36.26	-2.55	0.029
148.00	-7.09	-1.21	0.00	-3.31	0.00	3.31	674.91	337.46	419.53	207.19	36.53	-2.55	0.027
148.50	-7.04	-1.20	0.00	-2.71	0.00	2.71	671.42	335.71	415.17	205.04	36.80	-2.56	0.024
149.00	-0.07	-0.02	0.00	-0.01	0.00	0.01	667.92	333.96	410.83	202.89	37.07	-2.56	0.000
149.50	-0.04	-0.01	0.00	0.00	0.00	0.00	664.43	332.21	406.52	200.76	37.33	-2.56	0.000
150.00	0.00	-0.01	0.00	0.00	0.00	0.00	660.93	330.47	402.22	198.64	37.60	-2.56	0.000

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:03 AM
 Page: 79

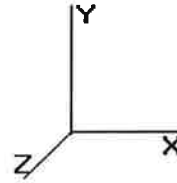
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.0D + 1.0W	60.00 mph Serviceability	42 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

137.0	1.00	1.08	9.466	10.41	91.704	1.000	0.000	0.50	0.737	0.74	7.7	0.0	17.4	
137.5	1.00	1.08	9.476	10.42	91.329	1.000	0.000	0.50	0.733	0.73	7.6	0.0	17.3	
138.0	1.00	1.08	9.486	10.43	90.955	1.000	0.000	0.50	0.730	0.73	7.6	0.0	17.2	
138.5	1.00	1.08	9.496	10.44	90.579	1.000	0.000	0.50	0.726	0.73	7.6	0.0	17.2	
139.0	1.00	1.08	9.506	10.45	90.203	1.000	0.000	0.50	0.723	0.72	7.6	0.0	17.1	
139.5	1.00	1.08	9.515	10.46	89.827	1.000	0.000	0.50	0.720	0.72	7.5	0.0	17.0	
140.0	1.00	1.08	9.525	10.47	89.450	1.000	0.000	0.50	0.716	0.72	7.5	0.0	16.9	
140.5	1.00	1.08	9.535	10.48	89.072	1.000	0.000	0.50	0.713	0.71	7.5	0.0	16.8	
141.0	1.00	1.09	9.545	10.49	88.694	1.000	0.000	0.50	0.710	0.71	7.4	0.0	16.7	
141.5	1.00	1.09	9.554	10.51	88.315	1.000	0.000	0.50	0.706	0.71	7.4	0.0	16.7	
142.0	1.00	1.09	9.564	10.52	87.935	1.000	0.000	0.50	0.703	0.70	7.4	0.0	16.6	
142.5	1.00	1.09	9.574	10.53	87.555	1.000	0.000	0.50	0.699	0.70	7.4	0.0	16.5	
143.0	1.00	1.09	9.583	10.54	87.175	1.000	0.000	0.50	0.696	0.70	7.3	0.0	16.4	
143.5	1.00	1.09	9.593	10.55	86.794	1.000	0.000	0.50	0.693	0.69	7.3	0.0	16.3	
144.0	1.00	1.09	9.602	10.56	86.412	1.000	0.000	0.50	0.689	0.69	7.3	0.0	16.3	
144.5	1.00	1.09	9.612	10.57	86.030	1.000	0.000	0.50	0.686	0.69	7.3	0.0	16.2	
145.0	1.00	1.09	9.621	10.58	85.647	1.000	0.000	0.50	0.683	0.68	7.2	0.0	16.1	
145.5	1.00	1.10	9.631	10.59	85.264	1.000	0.000	0.50	0.679	0.68	7.2	0.0	16.0	
146.0	1.00	1.10	9.640	10.60	84.880	1.000	0.000	0.50	0.676	0.68	7.2	0.0	15.9	
146.5	1.00	1.10	9.650	10.61	84.496	1.000	0.000	0.50	0.672	0.67	7.1	0.0	15.9	
147.0	1.00	1.10	9.659	10.62	84.111	1.000	0.000	0.50	0.669	0.67	7.1	0.0	15.8	
147.5	1.00	1.10	9.668	10.63	83.726	1.000	0.000	0.50	0.666	0.67	7.1	0.0	15.7	
148.0	1.00	1.10	9.678	10.64	83.340	1.000	0.000	0.50	0.662	0.66	7.1	0.0	15.6	
148.5	1.00	1.10	9.687	10.65	82.953	1.000	0.000	0.50	0.659	0.66	7.0	0.0	15.5	
149.0	Apertunance(s)	1.00	1.10	9.696	10.66	82.566	1.000	0.000	0.50	0.655	0.66	7.0	0.0	15.5
149.5		1.00	1.10	9.706	10.67	82.179	1.000	0.000	0.50	0.652	0.65	7.0	0.0	15.4
150.0		1.00	1.11	9.715	10.68	81.791	1.000	0.000	0.50	0.649	0.65	6.9	0.0	15.3
* = Cf Adjusted By Linear Load Ra Effect							Totals:	150.00			3,044.3	0.0	16,455.6	

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:04 AM
 Page: 80

© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.0D + 1.0W 60.00 mph Serviceability 42 Iterations
Gust Response Factor: 1.10 **Wind Importance Factor:** 1.00
Dead Load Factor: 1.00
Wind Load Factor: 1.00

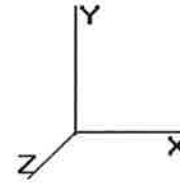
Discrete Appurtenance Segment Forces (Factored)

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)
39.00	0.5' Omni	1	6.611	7.272	1.00	1.00	0.06	0.000	0.000	0.44	0.00	0.00	5.00
39.00	Flat Side Arm	1	6.611	7.272	1.00	1.00	2.50	0.000	0.000	18.18	0.00	0.00	50.00
114.0	RFS DB-T1-6Z-8AB-0Z	1	8.982	9.880	0.67	0.80	2.57	0.000	0.000	25.42	0.00	0.00	44.00
114.0	Alcatel-Lucent RRH 2	3	8.982	9.880	0.50	0.80	2.26	0.000	0.000	22.29	0.00	0.00	129.00
114.0	Alcatel-Lucent RRH2X	3	8.982	9.880	0.50	0.80	4.02	0.000	0.000	39.72	0.00	0.00	165.00
114.0	Commscope HBXX-	6	8.982	9.880	0.68	0.80	27.84	0.000	0.000	275.09	0.00	0.00	244.80
114.0	Antel BXA-70063/6CF-	3	8.982	9.880	0.66	0.80	11.99	0.000	0.000	118.48	0.00	0.00	51.00
114.0	Round T-Arms	3	8.982	9.880	0.67	0.75	12.06	0.000	0.000	119.16	0.00	0.00	750.00
114.0	Antel BXA-70080-4CF-	3	8.982	9.880	0.72	0.80	6.17	0.000	0.000	60.95	0.00	0.00	36.00
114.0	RFS FD9R6004/2C-3L	6	8.982	9.880	0.50	0.80	0.86	0.000	0.000	8.54	0.00	0.00	18.60
149.0	Powerwave LGP21401	6	9.788	10.767	0.50	0.75	2.48	0.000	5.000	26.65	0.00	133.24	84.60
149.0	Powerwave LGP21902	6	9.788	10.767	0.50	0.75	0.61	0.000	5.000	6.54	0.00	32.70	33.00
149.0	Flat Platform w/ Han	1	9.696	10.666	1.00	1.00	40.00	0.000	0.000	426.64	0.00	0.00	2,000.00
149.0	KMW AM-X-CD-17-65-	2	9.788	10.767	0.68	0.75	11.54	0.000	5.000	124.21	0.00	621.05	119.00
149.0	Andrew SBNH-	1	9.788	10.767	0.70	0.75	6.01	0.000	5.000	64.67	0.00	323.33	60.80
149.0	Powerwave 7770.00	6	9.788	10.767	0.65	0.75	16.12	0.000	5.000	173.53	0.00	867.65	210.00
149.0	Ericsson RRUS-11	6	9.788	10.767	0.50	0.75	8.53	0.000	5.000	91.82	0.00	459.08	330.00
149.0	Raycap DC6-48-60-18-	1	9.788	10.767	1.00	0.75	0.83	0.000	5.000	8.96	0.00	44.82	20.00
										1,611.27			4,350.80

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:04 AM
 Page: 81



© 2007 - 2015 by ATC IP LLC. All rights reserved.

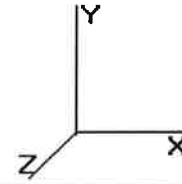
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	42 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

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	FX (lb)	Dead Load (lb)
0.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.207	0.000	2.58	0.00
1.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.207	0.000	2.58	0.00
1.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.208	0.000	2.58	0.00
2.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.208	0.000	2.58	0.00
2.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.209	0.000	2.58	0.00
3.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.209	0.000	2.58	0.00
3.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.210	0.000	2.58	0.00
4.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.210	0.000	2.58	0.00
4.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.210	0.000	2.58	0.00
5.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.211	0.000	2.58	0.00
5.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.211	0.000	2.58	0.00
6.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.212	0.000	2.58	0.00
6.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.212	0.000	2.58	0.00
7.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.213	0.000	2.58	0.00
7.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.213	0.000	2.58	0.00
8.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.214	0.000	2.58	0.00
8.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.214	0.000	2.58	0.00
9.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.215	0.000	2.58	0.00
9.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.215	0.000	2.58	0.00
10.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.216	0.000	2.58	0.00
10.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.216	0.000	2.58	0.00
11.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.216	0.000	2.58	0.00
11.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.217	0.000	2.58	0.00
12.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.217	0.000	2.58	0.00
12.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.218	0.000	2.58	0.00
13.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.218	0.000	2.58	0.00
13.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.219	0.000	2.58	0.00
14.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.219	0.000	2.58	0.00
14.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.220	0.000	2.58	0.00
15.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.220	0.000	2.58	0.00
15.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.221	0.000	2.58	0.00
16.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.221	0.000	2.58	0.00
16.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.222	0.000	2.58	0.00
17.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.222	0.000	2.58	0.00
17.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.223	0.000	2.58	0.00
18.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.223	0.000	2.58	0.00
18.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.224	0.000	2.58	0.00
19.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.224	0.000	2.58	0.00
19.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.225	0.000	2.58	0.00
20.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.225	0.000	2.58	0.00
20.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.226	0.000	2.58	0.00
21.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.226	0.000	2.58	0.00
21.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.227	0.000	2.58	0.00
22.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.227	0.000	2.58	0.00
22.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.228	0.000	2.58	0.00
23.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.229	0.000	2.58	0.00
23.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.229	0.000	2.58	0.00
24.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.230	0.000	2.58	0.00
24.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.230	0.000	2.58	0.00
25.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.231	0.000	2.58	0.00
25.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.231	0.000	2.58	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



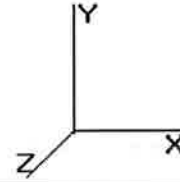
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	42 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

26.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.232	0.000	2.58	0.00
26.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.232	0.000	2.58	0.00
27.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.233	0.000	2.58	0.00
27.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.233	0.000	2.58	0.00
28.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.234	0.000	2.58	0.00
28.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.234	0.000	2.58	0.00
29.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.235	0.000	2.58	0.00
29.50	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.129	0.236	0.000	2.58	0.00
30.00	(4) #20 Dywidag	Yes	0.50	1.147	8.00	0.33	0.38	6.134	0.236	0.000	2.58	0.00
30.50	(4) #20 Dywidag	Yes	0.50	1.144	8.00	0.33	0.38	6.163	0.237	0.000	2.59	0.00
31.00	(4) #20 Dywidag	Yes	0.50	1.142	8.00	0.33	0.38	6.192	0.237	0.000	2.59	0.00
31.50	(4) #20 Dywidag	Yes	0.50	1.139	8.00	0.33	0.38	6.220	0.238	0.000	2.60	0.00
31.50	(4) #20 Dywidag	Yes	0.00	1.139	8.00	0.00	0.00	6.220	0.238	0.000	0.00	0.00
32.00	(4) #20 Dywidag	Yes	0.50	1.136	8.00	0.33	0.38	6.248	0.238	0.000	2.60	0.00
32.50	(4) #20 Dywidag	Yes	0.50	1.134	8.00	0.33	0.38	6.276	0.239	0.000	2.61	0.00
33.00	(4) #20 Dywidag	Yes	0.50	1.131	8.00	0.33	0.38	6.303	0.240	0.000	2.61	0.00
33.50	(4) #20 Dywidag	Yes	0.50	1.129	8.00	0.33	0.38	6.330	0.240	0.000	2.62	0.00
34.00	(4) #20 Dywidag	Yes	0.50	1.127	8.00	0.33	0.38	6.357	0.241	0.000	2.63	0.00
34.50	(4) #20 Dywidag	Yes	0.50	1.124	8.00	0.33	0.37	6.384	0.241	0.000	2.63	0.00
35.00	(4) #20 Dywidag	Yes	0.50	1.122	8.00	0.33	0.37	6.410	0.242	0.000	2.64	0.00
35.50	(4) #20 Dywidag	Yes	0.50	1.120	8.00	0.33	0.37	6.436	0.243	0.000	2.64	0.00
35.67	(4) #20 Dywidag	Yes	0.17	1.119	8.00	0.11	0.12	6.445	0.243	0.000	0.88	0.00
36.00	(4) #20 Dywidag	Yes	0.33	1.117	8.00	0.22	0.25	6.462	0.239	0.000	1.76	0.00
36.50	(4) #20 Dywidag	Yes	0.50	1.115	8.00	0.33	0.37	6.487	0.239	0.000	2.65	0.00
37.00	(4) #20 Dywidag	Yes	0.50	1.113	8.00	0.33	0.37	6.513	0.240	0.000	2.66	0.00
37.50	(4) #20 Dywidag	Yes	0.50	1.111	8.00	0.33	0.37	6.538	0.240	0.000	2.66	0.00
38.00	(4) #20 Dywidag	Yes	0.50	1.109	8.00	0.33	0.37	6.562	0.241	0.000	2.67	0.00
38.50	(4) #20 Dywidag	Yes	0.50	1.107	8.00	0.33	0.37	6.587	0.241	0.000	2.67	0.00
39.00	(4) #20 Dywidag	Yes	0.50	1.105	8.00	0.33	0.37	6.611	0.242	0.000	2.68	0.00
39.50	(4) #20 Dywidag	Yes	0.50	1.103	8.00	0.33	0.37	6.635	0.243	0.000	2.68	0.00
40.00	(4) #20 Dywidag	Yes	0.50	1.101	8.00	0.33	0.37	6.659	0.243	0.000	2.69	0.00
40.50	(4) #20 Dywidag	Yes	0.50	1.099	8.00	0.33	0.37	6.683	0.244	0.000	2.69	0.00
41.00	(4) #20 Dywidag	Yes	0.50	1.097	8.00	0.33	0.37	6.706	0.244	0.000	2.70	0.00
41.50	(4) #20 Dywidag	Yes	0.50	1.095	8.00	0.33	0.36	6.730	0.245	0.000	2.70	0.00
42.00	(4) #20 Dywidag	Yes	0.50	1.093	8.00	0.33	0.36	6.753	0.246	0.000	2.71	0.00
42.50	(4) #20 Dywidag	Yes	0.50	1.091	8.00	0.33	0.36	6.776	0.246	0.000	2.71	0.00
43.00	(4) #20 Dywidag	Yes	0.50	1.089	8.00	0.33	0.36	6.798	0.247	0.000	2.72	0.00
43.50	(4) #20 Dywidag	Yes	0.50	1.088	8.00	0.33	0.36	6.821	0.247	0.000	2.72	0.00
44.00	(4) #20 Dywidag	Yes	0.50	1.086	8.00	0.33	0.36	6.843	0.248	0.000	2.72	0.00
44.50	(4) #20 Dywidag	Yes	0.50	1.084	8.00	0.33	0.36	6.865	0.249	0.000	2.73	0.00
45.00	(4) #20 Dywidag	Yes	0.50	1.082	8.00	0.33	0.36	6.887	0.249	0.000	2.73	0.00
45.50	(4) #20 Dywidag	Yes	0.50	1.081	8.00	0.33	0.36	6.909	0.250	0.000	2.74	0.00
46.00	(4) #20 Dywidag	Yes	0.50	1.079	8.00	0.33	0.36	6.931	0.251	0.000	2.74	0.00
46.50	(4) #20 Dywidag	Yes	0.50	1.077	8.00	0.33	0.36	6.952	0.251	0.000	2.75	0.00
47.00	(4) #20 Dywidag	Yes	0.50	1.076	8.00	0.33	0.36	6.973	0.252	0.000	2.75	0.00
47.50	(4) #20 Dywidag	Yes	0.50	1.074	8.00	0.33	0.36	6.994	0.253	0.000	2.75	0.00
48.00	(4) #20 Dywidag	Yes	0.50	1.072	8.00	0.33	0.36	7.015	0.253	0.000	2.76	0.00
48.50	(4) #20 Dywidag	Yes	0.50	1.071	8.00	0.33	0.36	7.036	0.254	0.000	2.76	0.00
49.00	(4) #20 Dywidag	Yes	0.50	1.069	8.00	0.33	0.36	7.057	0.254	0.000	2.77	0.00
49.50	(4) #20 Dywidag	Yes	0.50	1.068	8.00	0.33	0.36	7.077	0.255	0.000	2.77	0.00
50.00	(4) #20 Dywidag	Yes	0.50	1.066	8.00	0.33	0.36	7.098	0.256	0.000	2.77	0.00
50.50	(4) #20 Dywidag	Yes	0.50	1.065	8.00	0.33	0.35	7.118	0.256	0.000	2.78	0.00
51.00	(4) #20 Dywidag	Yes	0.50	1.063	8.00	0.33	0.35	7.138	0.257	0.000	2.78	0.00
51.50	(4) #20 Dywidag	Yes	0.50	1.062	8.00	0.33	0.35	7.158	0.258	0.000	2.79	0.00
52.00	(4) #20 Dywidag	Yes	0.50	1.060	8.00	0.33	0.35	7.178	0.258	0.000	2.79	0.00
52.50	(4) #20 Dywidag	Yes	0.50	1.059	8.00	0.33	0.35	7.197	0.259	0.000	2.79	0.00

Pole : 302498
Location : Plainfield CT 6, CT
Height : 150.0 (ft)
Base Dia : 37.38 (in)
Top Dia : 15.00 (in)
Shape : 12 Sides
Taper : 0.156706 (in/ft)

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

© 2007 - 2015 by ATC IP LLC. All rights reserved.



2/10/2015 10:38:04 AM
Page: 83

Load Case: 1.0D + 1.0W

60.00 mph Serviceability

42 Iterations

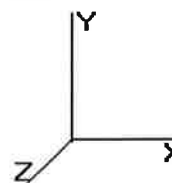
Gust Response Factor : 1.10
Dead Load Factor : 1.00
Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Totals: 276.11 0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:04 AM
 Page: 84

© 2007 - 2015 by ATC IP LLC. All rights reserved.

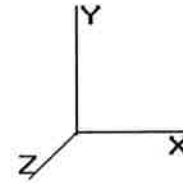
Load Case: 1.0D + 1.0W 60.00 mph Serviceability 42 Iterations
Gust Response Factor : 1.10 **Wind Importance Factor :** 1.00
Dead Load Factor : 1.00
Wind Load Factor : 1.00

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
0.50	15.61	109.34	0.00	0.00
1.00	15.58	109.18	0.00	0.00
1.50	15.55	109.02	0.00	0.00
2.00	15.53	108.86	0.00	0.00
2.50	15.50	108.70	0.00	0.00
3.00	15.47	108.54	0.00	0.00
3.50	15.45	108.38	0.00	0.00
4.00	15.42	108.22	0.00	0.00
4.50	15.39	108.06	0.00	0.00
5.00	15.36	107.89	0.00	0.00
5.50	15.34	122.71	0.00	0.00
6.00	15.31	122.55	0.00	0.00
6.50	15.28	122.39	0.00	0.00
7.00	15.25	122.23	0.00	0.00
7.50	15.23	122.07	0.00	0.00
8.00	15.20	121.91	0.00	0.00
8.50	15.17	121.75	0.00	0.00
9.00	15.14	121.59	0.00	0.00
9.50	15.12	121.42	0.00	0.00
10.00	15.09	121.26	0.00	0.00
10.50	15.06	121.10	0.00	0.00
11.00	15.03	120.94	0.00	0.00
11.50	15.01	120.78	0.00	0.00
12.00	14.98	120.62	0.00	0.00
12.50	14.95	120.46	0.00	0.00
13.00	14.93	120.30	0.00	0.00
13.50	14.90	120.14	0.00	0.00
14.00	14.87	119.98	0.00	0.00
14.50	14.84	119.82	0.00	0.00
15.00	14.82	119.65	0.00	0.00
15.50	14.79	119.49	0.00	0.00
16.00	14.76	119.33	0.00	0.00
16.50	14.73	119.17	0.00	0.00
17.00	14.71	119.01	0.00	0.00
17.50	14.68	118.85	0.00	0.00
18.00	14.65	118.69	0.00	0.00
18.50	14.62	118.53	0.00	0.00
19.00	14.60	118.37	0.00	0.00
19.50	14.57	118.21	0.00	0.00
20.00	14.54	118.04	0.00	0.00
20.50	14.52	117.88	0.00	0.00
21.00	14.49	117.72	0.00	0.00
21.50	14.46	117.56	0.00	0.00
22.00	14.43	117.40	0.00	0.00
22.50	14.41	117.24	0.00	0.00
23.00	14.38	117.08	0.00	0.00
23.50	14.35	116.92	0.00	0.00
24.00	14.32	116.76	0.00	0.00
24.50	14.30	116.60	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:04 AM
 Page: 85

© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.0D + 1.0W

60.00 mph Serviceability

42 Iterations

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

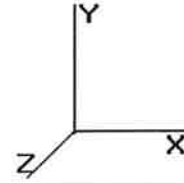
Wind Importance Factor : 1.00

25.00	14.27	116.43	0.00	0.00
25.50	14.24	116.27	0.00	0.00
26.00	14.21	116.11	0.00	0.00
26.50	14.19	115.95	0.00	0.00
27.00	14.16	115.79	0.00	0.00
27.50	14.13	115.63	0.00	0.00
28.00	14.11	115.47	0.00	0.00
28.50	14.08	115.31	0.00	0.00
29.00	14.05	115.15	0.00	0.00
29.50	14.02	114.99	0.00	0.00
30.00	14.01	114.82	0.00	0.00
30.50	14.04	114.66	0.00	0.00
31.00	14.07	114.50	0.00	0.00
31.50	14.10	114.34	0.00	0.00
31.50	0.01	0.08	0.00	0.00
32.00	14.34	170.17	0.00	0.00
32.50	14.38	169.99	0.00	0.00
33.00	14.41	169.69	0.00	0.00
33.50	14.44	169.40	0.00	0.00
34.00	14.47	169.10	0.00	0.00
34.50	14.50	168.81	0.00	0.00
35.00	14.52	168.51	0.00	0.00
35.50	14.55	168.22	0.00	0.00
35.67	4.86	56.12	0.00	0.00
36.00	9.70	68.85	0.00	0.00
36.50	14.59	103.27	0.00	0.00
37.00	14.62	103.14	0.00	0.00
37.50	14.64	103.00	0.00	0.00
38.00	14.66	102.87	0.00	0.00
38.50	14.68	102.73	0.00	0.00
39.00	33.32	157.60	0.00	0.00
39.50	14.72	102.39	0.00	0.00
40.00	14.74	102.26	0.00	0.00
40.50	14.75	102.12	0.00	0.00
41.00	14.77	101.99	0.00	0.00
41.50	14.79	101.85	0.00	0.00
42.00	14.80	101.72	0.00	0.00
42.50	14.82	101.58	0.00	0.00
43.00	14.83	101.45	0.00	0.00
43.50	14.85	101.32	0.00	0.00
44.00	14.86	101.18	0.00	0.00
44.50	14.88	101.05	0.00	0.00
45.00	14.89	100.91	0.00	0.00
45.50	14.90	100.78	0.00	0.00
46.00	14.91	100.64	0.00	0.00
46.50	14.92	67.11	0.00	0.00
47.00	14.93	66.98	0.00	0.00
47.50	14.94	66.84	0.00	0.00
48.00	14.95	66.71	0.00	0.00
48.50	14.96	66.57	0.00	0.00
49.00	14.97	66.44	0.00	0.00
49.50	14.98	66.30	0.00	0.00
50.00	14.98	66.17	0.00	0.00
50.50	14.99	66.04	0.00	0.00
51.00	15.00	65.90	0.00	0.00
51.50	15.00	65.77	0.00	0.00
52.00	15.01	65.63	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:04 AM
 Page: 86



© 2007 - 2015 by ATC IP LLC. All rights reserved.

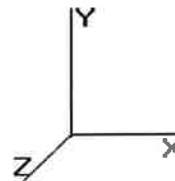
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	42 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

52.50	15.01	65.50	0.00	0.00
53.00	10.18	65.36	0.00	0.00
53.50	10.18	65.23	0.00	0.00
54.00	10.18	65.09	0.00	0.00
54.50	10.18	64.96	0.00	0.00
55.00	10.18	64.83	0.00	0.00
55.50	10.18	64.69	0.00	0.00
56.00	10.18	64.56	0.00	0.00
56.50	10.18	64.42	0.00	0.00
57.00	10.18	64.29	0.00	0.00
57.50	10.18	64.15	0.00	0.00
58.00	10.17	64.02	0.00	0.00
58.50	10.17	63.89	0.00	0.00
59.00	10.17	63.75	0.00	0.00
59.50	10.17	63.62	0.00	0.00
60.00	10.16	63.48	0.00	0.00
60.50	10.16	63.35	0.00	0.00
61.00	10.15	63.21	0.00	0.00
61.50	10.15	63.08	0.00	0.00
62.00	10.15	62.95	0.00	0.00
62.50	10.14	62.81	0.00	0.00
63.00	10.14	62.68	0.00	0.00
63.50	10.13	62.54	0.00	0.00
64.00	10.12	62.41	0.00	0.00
64.50	10.12	62.27	0.00	0.00
65.00	10.11	62.14	0.00	0.00
65.50	10.11	62.00	0.00	0.00
66.00	10.10	61.87	0.00	0.00
66.50	10.09	61.74	0.00	0.00
67.00	10.09	61.60	0.00	0.00
67.50	10.08	61.47	0.00	0.00
68.00	10.07	61.33	0.00	0.00
68.50	10.06	61.20	0.00	0.00
69.00	10.06	61.06	0.00	0.00
69.50	10.05	60.93	0.00	0.00
70.00	10.04	60.80	0.00	0.00
70.00	0.01	0.04	0.00	0.00
70.50	10.21	97.91	0.00	0.00
71.00	10.21	97.74	0.00	0.00
71.50	10.20	97.50	0.00	0.00
72.00	10.19	97.25	0.00	0.00
72.50	10.18	97.01	0.00	0.00
73.00	10.17	96.77	0.00	0.00
73.50	10.16	96.53	0.00	0.00
73.50	0.01	0.06	0.00	0.00
74.00	10.14	51.44	0.00	0.00
74.50	10.14	51.36	0.00	0.00
75.00	10.13	51.26	0.00	0.00
75.50	10.12	51.15	0.00	0.00
76.00	10.11	51.04	0.00	0.00
76.50	10.10	50.93	0.00	0.00
77.00	10.09	50.83	0.00	0.00
77.50	10.08	50.72	0.00	0.00
78.00	10.07	50.61	0.00	0.00
78.50	10.05	50.51	0.00	0.00
79.00	10.04	50.40	0.00	0.00
79.50	10.03	50.29	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:04 AM
 Page: 87



© 2007 - 2015 by ATC IP LLC. All rights reserved.

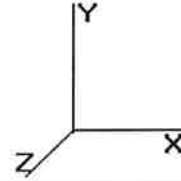
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	42 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

80.00	10.02	50.18	0.00	0.00
80.50	10.01	50.08	0.00	0.00
81.00	9.99	49.97	0.00	0.00
81.50	9.98	49.86	0.00	0.00
82.00	9.97	49.75	0.00	0.00
82.50	9.95	49.65	0.00	0.00
83.00	9.94	49.54	0.00	0.00
83.50	9.93	49.43	0.00	0.00
84.00	9.91	49.32	0.00	0.00
84.50	9.90	49.22	0.00	0.00
85.00	9.89	49.11	0.00	0.00
85.50	9.87	49.00	0.00	0.00
86.00	9.86	48.90	0.00	0.00
86.50	9.84	48.79	0.00	0.00
87.00	9.83	48.68	0.00	0.00
87.50	9.81	48.57	0.00	0.00
88.00	9.80	48.47	0.00	0.00
88.50	9.78	48.36	0.00	0.00
89.00	9.77	48.25	0.00	0.00
89.50	9.75	48.14	0.00	0.00
90.00	9.74	48.04	0.00	0.00
90.50	9.72	47.93	0.00	0.00
91.00	9.71	47.82	0.00	0.00
91.50	9.69	47.72	0.00	0.00
92.00	9.67	47.61	0.00	0.00
92.50	9.66	47.50	0.00	0.00
93.00	9.64	47.39	0.00	0.00
93.50	9.62	47.29	0.00	0.00
94.00	9.61	47.18	0.00	0.00
94.50	9.59	47.07	0.00	0.00
95.00	9.57	46.96	0.00	0.00
95.50	9.55	46.86	0.00	0.00
96.00	9.54	46.75	0.00	0.00
96.50	9.52	46.64	0.00	0.00
97.00	9.50	46.53	0.00	0.00
97.50	9.48	46.43	0.00	0.00
98.00	9.46	46.32	0.00	0.00
98.50	9.45	46.21	0.00	0.00
99.00	9.43	46.11	0.00	0.00
99.50	9.41	46.00	0.00	0.00
100.0	9.39	45.89	0.00	0.00
100.5	9.37	45.78	0.00	0.00
101.0	9.35	45.68	0.00	0.00
101.5	9.33	45.57	0.00	0.00
102.0	9.31	45.46	0.00	0.00
102.5	9.30	45.35	0.00	0.00
103.0	9.28	45.25	0.00	0.00
103.5	9.26	45.14	0.00	0.00
104.0	9.24	45.03	0.00	0.00
104.5	9.22	44.92	0.00	0.00
105.0	9.20	44.82	0.00	0.00
105.5	9.18	44.71	0.00	0.00
106.0	9.16	44.60	0.00	0.00
106.5	9.14	44.50	0.00	0.00
107.0	9.12	44.39	0.00	0.00
107.5	9.09	44.28	0.00	0.00
108.0	9.07	44.17	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:04 AM
 Page: 88



© 2007 - 2015 by ATC IP LLC. All rights reserved.

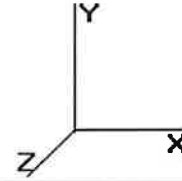
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	42 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

108.5	9.05	44.07	0.00	0.00
109.0	9.03	43.96	0.00	0.00
109.5	9.01	43.85	0.00	0.00
110.0	8.99	43.74	0.00	0.00
110.0	0.01	0.03	0.00	0.00
110.5	8.96	36.55	0.00	0.00
111.0	8.95	36.49	0.00	0.00
111.5	8.92	36.41	0.00	0.00
112.0	8.90	36.33	0.00	0.00
112.5	8.88	36.25	0.00	0.00
113.0	8.86	36.17	0.00	0.00
113.5	8.84	36.09	0.00	0.00
114.0	678.46	1,474.41	0.00	0.00
114.5	8.79	30.36	0.00	0.00
115.0	8.77	30.28	0.00	0.00
115.5	8.75	30.20	0.00	0.00
116.0	8.72	30.12	0.00	0.00
116.5	8.70	30.04	0.00	0.00
117.0	8.68	29.96	0.00	0.00
117.5	8.65	29.88	0.00	0.00
118.0	8.63	29.80	0.00	0.00
118.5	8.61	29.71	0.00	0.00
119.0	8.58	29.63	0.00	0.00
119.5	8.56	29.55	0.00	0.00
120.0	8.54	29.47	0.00	0.00
120.5	8.51	29.39	0.00	0.00
121.0	8.49	29.31	0.00	0.00
121.5	8.47	29.23	0.00	0.00
122.0	8.44	29.15	0.00	0.00
122.5	8.42	29.07	0.00	0.00
123.0	8.39	28.99	0.00	0.00
123.5	8.37	28.91	0.00	0.00
124.0	8.34	28.83	0.00	0.00
124.5	8.32	28.75	0.00	0.00
125.0	8.30	28.67	0.00	0.00
125.5	8.27	28.58	0.00	0.00
126.0	8.25	28.50	0.00	0.00
126.5	8.22	28.42	0.00	0.00
127.0	8.19	28.34	0.00	0.00
127.5	8.17	28.26	0.00	0.00
128.0	8.14	28.18	0.00	0.00
128.5	8.12	28.10	0.00	0.00
129.0	8.09	28.02	0.00	0.00
129.5	8.07	27.94	0.00	0.00
130.0	8.04	27.86	0.00	0.00
130.5	8.02	27.78	0.00	0.00
131.0	7.99	27.70	0.00	0.00
131.5	7.96	27.62	0.00	0.00
132.0	7.94	27.54	0.00	0.00
132.5	7.91	27.45	0.00	0.00
133.0	7.88	27.37	0.00	0.00
133.5	7.86	27.29	0.00	0.00
134.0	7.83	27.21	0.00	0.00
134.5	7.81	27.13	0.00	0.00
135.0	7.78	27.05	0.00	0.00
135.5	7.75	26.97	0.00	0.00
136.0	7.72	26.89	0.00	0.00

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:04 AM
 Page: 89



© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.0D + 1.0W 60.00 mph Serviceability 42 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

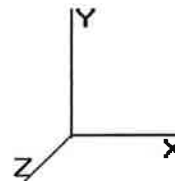
136.5	7.70	26.81	0.00	0.00
137.0	7.67	26.73	0.00	0.00
137.5	7.64	26.65	0.00	0.00
138.0	7.62	26.57	0.00	0.00
138.5	7.59	26.49	0.00	0.00
139.0	7.56	26.41	0.00	0.00
139.5	7.53	26.33	0.00	0.00
140.0	7.51	26.24	0.00	0.00
140.5	7.48	26.16	0.00	0.00
141.0	7.45	26.08	0.00	0.00
141.5	7.42	26.00	0.00	0.00
142.0	7.39	25.92	0.00	0.00
142.5	7.37	25.84	0.00	0.00
143.0	7.34	25.76	0.00	0.00
143.5	7.31	25.68	0.00	0.00
144.0	7.28	25.60	0.00	0.00
144.5	7.25	25.52	0.00	0.00
145.0	7.22	25.44	0.00	0.00
145.5	7.19	25.36	0.00	0.00
146.0	7.17	25.28	0.00	0.00
146.5	7.14	25.20	0.00	0.00
147.0	7.11	25.11	0.00	0.00
147.5	7.08	25.03	0.00	0.00
148.0	7.05	24.95	0.00	0.00
148.5	7.02	24.87	0.00	0.00
149.0	930.00	2,882.19	0.00	2,481.87
149.5	6.96	15.38	0.00	0.00
150.0	6.93	15.30	0.00	0.00
Totals:	4,931.70	24,713.98	0.00	2,481.87

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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

2/10/2015 10:38:05 AM

Page: 95



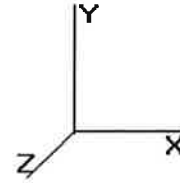
© 2007 - 2015 by ATC IP LLC. All rights reserved.

Load Case: 1.0D + 1.0W	60.00 mph Serviceability	42 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

136.00	-3.51	-1.27	0.00	-17.63	0.00	17.63	749.65	374.82	524.63	259.10	28.33	-2.26	0.073
136.50	-3.48	-1.26	0.00	-17.00	0.00	17.00	747.32	373.66	520.57	257.09	28.56	-2.26	0.071
137.00	-3.46	-1.25	0.00	-16.37	0.00	16.37	744.98	372.49	516.51	255.08	28.80	-2.27	0.069
137.50	-3.43	-1.24	0.00	-15.74	0.00	15.74	742.63	371.31	512.46	253.08	29.04	-2.28	0.067
138.00	-3.41	-1.23	0.00	-15.12	0.00	15.12	740.26	370.13	508.41	251.09	29.28	-2.28	0.065
138.50	-3.38	-1.23	0.00	-14.50	0.00	14.50	737.89	368.95	504.38	249.09	29.52	-2.29	0.063
139.00	-3.35	-1.22	0.00	-13.89	0.00	13.89	735.51	367.75	500.35	247.11	29.76	-2.29	0.061
139.50	-3.33	-1.21	0.00	-13.28	0.00	13.28	733.12	366.56	496.34	245.12	30.00	-2.30	0.059
140.00	-3.30	-1.20	0.00	-12.68	0.00	12.68	730.85	365.43	492.42	243.19	30.24	-2.31	0.057
140.50	-3.28	-1.19	0.00	-12.08	0.00	12.08	727.36	363.68	487.70	240.85	30.48	-2.31	0.055
141.00	-3.25	-1.18	0.00	-11.48	0.00	11.48	723.86	361.93	482.99	238.53	30.72	-2.32	0.053
141.50	-3.22	-1.18	0.00	-10.89	0.00	10.89	720.37	360.18	478.31	236.22	30.97	-2.32	0.051
142.00	-3.20	-1.17	0.00	-10.30	0.00	10.30	716.87	358.43	473.65	233.92	31.21	-2.33	0.049
142.50	-3.17	-1.16	0.00	-9.72	0.00	9.72	713.37	356.69	469.02	231.63	31.45	-2.33	0.046
143.00	-3.15	-1.15	0.00	-9.14	0.00	9.14	709.88	354.94	464.40	229.35	31.70	-2.33	0.044
143.50	-3.12	-1.14	0.00	-8.56	0.00	8.56	706.38	353.19	459.81	227.09	31.94	-2.34	0.042
144.00	-3.10	-1.14	0.00	-7.99	0.00	7.99	702.88	351.44	455.25	224.83	32.19	-2.34	0.040
144.50	-3.07	-1.13	0.00	-7.42	0.00	7.42	699.39	349.69	450.70	222.59	32.43	-2.35	0.038
145.00	-3.05	-1.12	0.00	-6.86	0.00	6.86	695.89	347.95	446.18	220.35	32.68	-2.35	0.036
145.50	-3.02	-1.11	0.00	-6.30	0.00	6.30	692.40	346.20	441.68	218.13	32.92	-2.35	0.033
146.00	-3.00	-1.10	0.00	-5.74	0.00	5.74	688.90	344.45	437.21	215.92	33.17	-2.36	0.031
146.50	-2.97	-1.10	0.00	-5.19	0.00	5.19	685.40	342.70	432.75	213.72	33.42	-2.36	0.029
147.00	-2.95	-1.09	0.00	-4.64	0.00	4.64	681.91	340.95	428.32	211.53	33.66	-2.36	0.026
147.50	-2.92	-1.08	0.00	-4.10	0.00	4.10	678.41	339.21	423.92	209.36	33.91	-2.36	0.024
148.00	-2.90	-1.07	0.00	-3.56	0.00	3.56	674.91	337.46	419.53	207.19	34.16	-2.36	0.021
148.50	-2.87	-1.06	0.00	-3.02	0.00	3.02	671.42	335.71	415.17	205.04	34.41	-2.37	0.019
149.00	-0.03	-0.02	0.00	-0.01	0.00	0.01	667.92	333.96	410.83	202.89	34.65	-2.37	0.000
149.50	-0.01	-0.01	0.00	0.00	0.00	0.00	664.43	332.21	406.52	200.76	34.90	-2.37	0.000
150.00	0.00	-0.01	0.00	0.00	0.00	0.00	660.93	330.47	402.22	198.64	35.15	-2.37	0.000

Pole : 302498
 Location : Plainfield CT 6, CT
 Height : 150.0 (ft)
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Shape : 12 Sides
 Taper : 0.156706 (in/ft)

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



2/10/2015 10:38:05 AM
 Page: 96

© 2007 - 2015 by ATC IP LLC. All rights reserved.

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.6W	23.59	0.00	29.04	0.00	0.00	2214.18	73.50	1.00
0.9D + 1.6W	23.59	0.00	22.54	0.00	0.00	2182.67	73.50	0.97
1.2D + 1.0Di + 1.0Wi	4.47	0.00	45.40	0.00	0.00	457.21	73.50	0.23
1.0D + 1.0W	4.93	0.00	24.71	0.00	0.00	452.41	73.50	0.21

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
			VQ/I (lb/in)	Applied (kips)	Shear phiVn (kips)	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Pu (kip)	phiPn (kip)	Ratio
0.00	46.0	(4) SOL-#20 All Thre	233.3	7.0	16.8	194.8	12.0	17	20	0.0	12.0	0	0	230.6	330.5	0.698

Base/Flange Plate	Plate Type	Baseplate
	Pole Diameter	37.38 in
	Pole Thickness	0.375 in
	Plate Length	44 in
	Plate Thickness	2.5 in
	Plate Fy	60 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	1382.37 k-in
	Applied	584.98 k-in
Stiffeners	#	0

Code Rev. **G** Date **2/10/2015**
 Engineer **IPD**
 Site # **302498**
 Carrier **Verizon**

Moment **2214.2 k-ft**
 Axial **29.0 k**

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	173.58 k	
Reinforcement	#	4
	DYW. Circle	44.06 in
	Offset Angle	0°
	Type	#20
	Diameter	2.5 in
Fu	100 ksi	
Extra Bolts	#	0

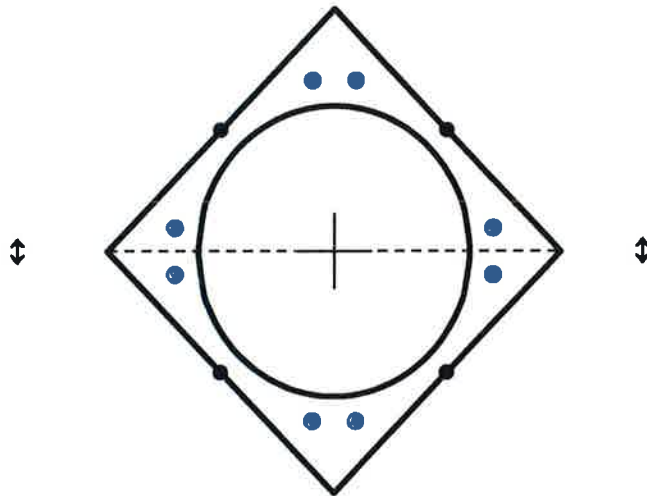


Plate Stress Ratio:
0.42 (Pass)

Bolt Stress Ratio:
0.67 (Pass)

Base/Flange Plate	Plate Type	Flange @ 110.0 ft
	Pole Diameter	21.27 in
	Pole Thickness	0.1875 in
	Plate Diameter	28.5 in
	Plate Thickness	1 in
	Plate Fy	60 ksi
	Weld Length	0.3125 in
	ϕ_s Resistance	75.17 k-in
	Applied	61.36 k-in
	Stiffeners	#

Code Rev. **G**

Date **2/10/2015**
 Engineer **IPD**
 Site # **302498**
 Carrier **Verizon**

Moment **292.8 k-ft**
 Axial **6.1 k**

Required Flange Thickness:
0.90 in OK

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	44.95 k
Reinforcement	#	0
Extra Bolts	#	0

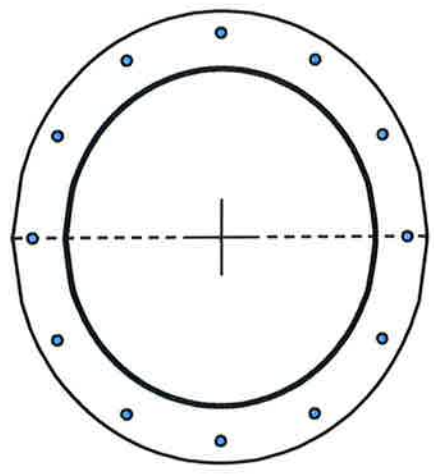
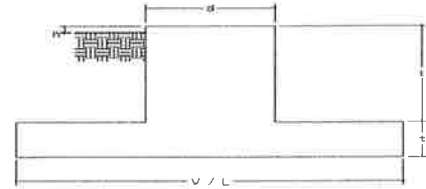


Plate Stress Ratio:
0.82 (Pass)

Bolt Stress Ratio:
0.82 (Pass)

Site Name: Plainfield CT6, CT
 Site Number: 302498
 Engineering Number: 58052023
 Engineer: I. Dodson
 Date: 02/10/15
 Tower Type: MP

Program Last Updated: 11/15/2012



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

Design / Analysis / Mapping:

	Analysis
Compression/Leg:	29.0 k
Uplift/Leg:	0.0 k
Total Shear:	23.6 k
Moment:	2214.2 k-ft
Tower + Appurtenance Weight:	24.7 k
Depth to Base of Foundation (l + t - h):	8.00 ft
Diameter of Pier (d):	6.00 ft
Height of Pier above Ground (h):	0.50
Width of Pad (W):	18.00 ft
Length of Pad (L):	18.00 ft
Thickness of Pad (t):	3.00 ft
Tower Leg Center to Center:	0.00 ft
Number of Tower Legs:	1.0 (1 if MP or GT)
Tower Center from Mat Center:	0.00 ft
Depth Below Ground Surface to Water Table:	3.50 ft
Unit Weight of Concrete:	150.0 pcf
Unit Weight of Soil Above Water Table:	135.0 pcf
Unit Weight of Water:	62.4 pcf
Unit Weight of Soil Below Water Table:	75.0 pcf
Friction Angle of Uplift:	30.0 Degrees
Ultimate Coefficient of Shear Friction:	0.35
Ultimate Compressive Bearing Pressure:	15000.0 psf
Ultimate Passive Pressure on Pad Face:	1000.0 psf
$\phi_{\text{Soil and Concrete Weight}}$:	0.9
ϕ_{Soil} :	0.75

Concrete Strength (f'_c):	3000 psi
Pad Tension Steel Depth:	32.00 in
ϕ_{Shear} :	0.75
$\phi_{\text{Flexure / Tension}}$:	0.90
$\phi_{\text{Compression}}$:	0.65
β :	0.85
Bottom Pad Rebar Size #:	10
# of Bottom Pad Rebar:	36
Pad Bottom Steel Area:	45.72 in ²
Pad Steel F_y :	60000 psi
Top Pad Rebar Size #:	5
# of Top Pad Rebar:	36
Pad Top Steel Area:	11.16 in ²
Pier Rebar Size #:	11
Pier Steel Area (Single Bar):	1.56 in ²
# of Pier Rebar:	52
Pier Steel F_y :	60000 psi
Pier Cage Diameter:	64.0 in
Rebar Strain Limit:	0.008
Steel Elastic Modulus:	29000 ksi
Tie Rebar Size #:	4
Tie Steel Area (Single Bar):	0.20 in ²
Tie Spacing:	12 in
Tie Steel F_y :	60000 psi

Overturning Moment Usage

Design OTM:	2414.7 k-ft
OTM Resistance:	2790.5 k-ft
Design OTM / OTM Resistance:	0.87 Result: OK

Soil Bearing Pressure Usage

Net Bearing Pressure:	4611 psf
Factored Nominal Bearing Pressure:	11250 psf
Net Bearing Pressure/Factored Nominal Bearing Pressure:	0.41 Result: OK
Load Direction Controlling Design Bearing Pressure:	Diagonal to Pad Edge

Sliding Factor of Safety

Total Factored Sliding Resistance:	115.0 k
Sliding Design / Sliding Resistance:	0.21 Result: OK

One Way Shear, Flexural Capacity, and Punching Shear

Factored One Way Shear (V_u):	141.5 k
One Way Shear Capacity (ϕV_c):	445.5 k - ACI11.3.1.1
$V_u / \phi V_c$:	0.32 Result: OK
Load Direction Controlling Shear Capacity:	Diagonal to Pad Edge
Lower Steel Pad Factored Moment (M_u):	852.7 k-ft
Lower Steel Pad Moment Capacity (ϕM_n):	6449.8 k-ft - ACI10.3
$M_u / \phi M_n$:	0.13 Result: OK
Load Direction Controlling Flexural Capacity:	Diagonal to Pad Edge
Upper Steel Pad Factored Moment (M_u):	439.5 k-ft
Upper Steel Pad Moment Capacity (ϕM_n):	1581.1 k-ft
$M_u / \phi M_n$:	0.28 Result: OK
Lower Pad Flexural Reinforcement Ratio:	0.0066 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Upper Pad Flexural Reinforcement Ratio:	0.0016 OK - Minimum Reinforcement Ratio Met - ACI10.5.1
Lower Pad Reinforcement Spacing:	6 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Upper Pad Reinforcement Spacing:	6 in - Pad Reinforcing Spacing OK - ACI7.12.2.2 & 10.5.4
Factored Punching Shear (V_u):	0.0 k
Nominal Punching Shear Capacity ($\phi_c V_n$):	1718.0 k - ACI11.12.2.1
$V_u / \phi V_c$:	0.00 Result: OK
Factored Moment in Pier (M_u):	2343.9 k-ft
Pier Moment Capacity (ϕM_n):	11423.2 k-ft
$M_u / \phi M_n$:	0.21 Result: OK
Factored Shear in Pier (V_u):	23.6 k
Pier Shear Capacity (ϕV_n):	335.7 k
$V_u / \phi V_c$:	0.07 Result: OK
Pier Shear Reinforcement Ratio:	0.0005 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
$T_u / \phi T_n$:	0.00 Result: OK
Factored Compression in Pier (P_u):	29.0 k
Pier Compression Capacity (ϕP_n):	5291.2 k - ACI10.3.6.2
$P_u / \phi P_n$:	0.01 Result: OK
Pier Compression Reinforcement Ratio:	0.020 OK - Reinforcement Ratio Met - ACI10.9.1 & 10.8.4
$M_u / \phi M_n + T_u / \phi T_n$:	0.21 Result: OK

Nominal and Design Moment Capacity and Factored Design Loads

