



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 142 ft Monopole
ATC Site Name : WSPT - South, CT
ATC Site Number : 302511
Engineering Number : 58995222
Proposed Carrier : Sprint Nextel
Carrier Site Name : WSPT - South
Carrier Site Number : CT03XC336
Site Location : 20 Post Office Lane
Westport, CT 06880-6226
41.123444,-73.313100
County : Fairfield
Date : July 17, 2014
Max Usage : 90%
Result : Pass

William Maynard, E.I.

W. Maynard





Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	2
Proposed Equipment	3
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 142 ft monopole to reflect the change in loading by Sprint Nextel.

Supporting Documents

Tower Drawings	EEI Job #3502, dated March 2, 1998
Foundation Drawing	Walker Job #W0105-988RE, dated August 2, 2001
Geotechnical Report	MB&A Project #011105, dated July 17, 2001
Modifications	EEI Project #11753, dated July 25, 2003 SpectraSite Drawing #CT-0047-M1, dated August 12, 2005 ATC Job #42046633, dated October 16, 2008 ATC Job #46844332/46993332, dated April 15, 2011

Analysis

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

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

Conclusion

Based on the analysis results, the structure 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					
136.0	140.0	3	Kathrein 742-218 / AP20-1940/0	Flush	(6) 1 5/8" Coax (1) 3/8" Coax	Metro PCS
	136.0	3	Generic RCU			
131.0	131.0	6	Powerwave LGP219nn	Platform w/ Handrails	(12) 1 1/4" Coax (2) 0.65" 8 AWG 2C (1) 0.28" RG-6 (1) 3" Conduit	AT&T Mobility
		6	Powerwave LGP21401			
		1	Raycap DC6-48-60-18-8F			
		6	Ericsson RRUS 11 (Band 4)			
		6	Powerwave 7770			
		3	Powerwave P65-16-XLH-RR			
120.0	120.0	2	DragonWave Horizon Compact	Platform w/ Handrails	(6) 5/16" Coax (3) 1 1/4" Hybriflex Cab (2) 1/2" Coax (1) 2" Conduit	Clearwire
		3	NextNet BTS-2500			
		3	Argus LLPX310R			
		2	DragonWave A-ANT-18G-2-C			Sprint Nextel
		3	Alcatel-Lucent 800MHz 2X50W RRH w/ Filter			
		3	Alcatel-Lucent 1900MHz 4x45 RRH			
		3	RFS APXVSP18-C-A20			
110.0	110.0	9	48" x 12" Panel	Platform w/ Handrails	(12) 1 5/8" Coax	
		3	72" x 12" Panel			
100.0	100.0	6	RFS FD9R6004/1C-3L	Platform w/ Handrails	(12) 1 5/8" Coax (1) 1 5/8" Hybriflex	Verizon
		1	GPS			
		3	Alcatel-Lucent RRH2x40-AWS			
		3	Ryma MGD3-800TX			
		3	Antel BXA-171063/12CF_2FP			
		1	RFS DB-T1-6Z-8AB-0Z			
		3	Antel BXA-70080/6CF			
		3	Allgon P65-16-XL-2			
90.0	90.0	4	RFS ATMAA1412D-1A20	Platform w/ Handrails	(14) 1 5/8" Coax (1) 1 1/4" Fiber	T-Mobile
		4	Ericsson AIR 21, 1.3M, B2A B4P			
		3	Ericsson AIR 21, 1.3M, B4A B2P			
80.0	80.0	2	Diamond X50A	Stand-Offs	(2) 1/2" Coax	Enertrac
70.0	70.0	1	PCTEL GPS-TMG-HR-26N	Stand-Off	(1) 1/2" Coax	Sprint Nextel

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
120.0	120.0	6	Decibel DB980H80E-M	-	(6) 1 5/8" Coax	Sprint Nextel



Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
120.0	120.0	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield	Platform w/ Handrails	(1) 1 1/4" Hybriflex	Sprint Nextel
		3	RFS APXV9TM14-ALU-I20			

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	61%	Pass
Shaft	90%	Pass
Base Plate	49%	Pass
Reinforcement	78%	Pass

Foundations

Reaction Component	Analysis Reactions
Moment (Kips-Ft)	3,748.4
Axial (Kips)	50.3
Shear (Kips)	40.8

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) (°)
120.0	1.218	1.230

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

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

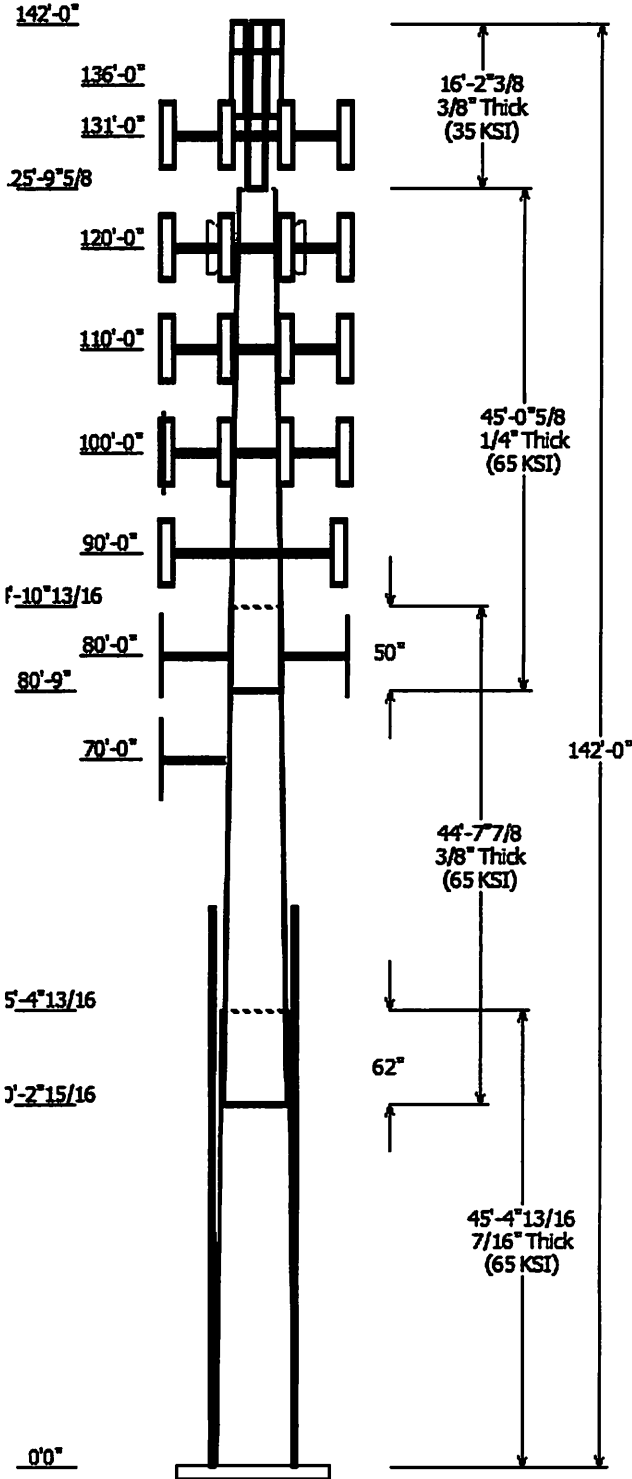
All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

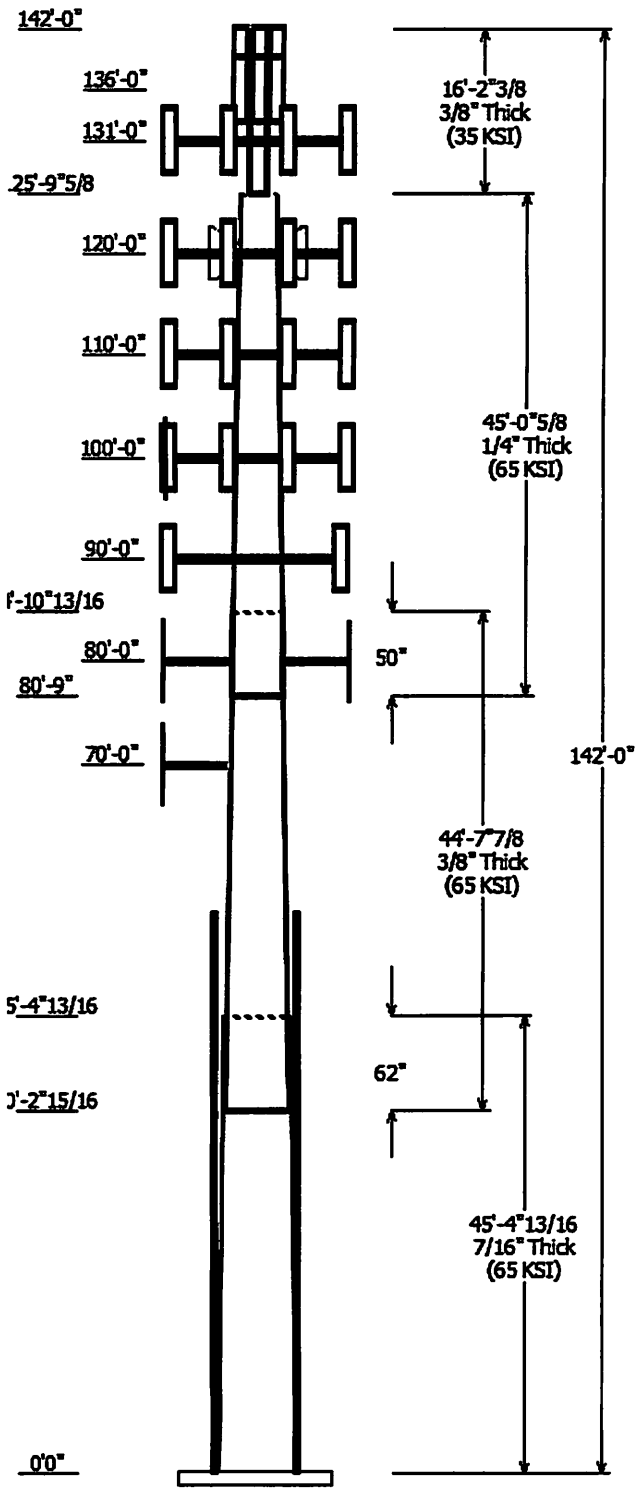
© 2007 - 2014 by ATC IP LLC. All rights reserved.

Job Information	
Pole :	302511
Code:	ANSI/TIA-222 Rev G
Description :	142 ft \square Monopole
Client :	Sprint Nextel
Struct Class :	II
Location :	WSPT - South, CT
Shape :	12 Sides
Exposure :	B
Height :	142.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.21263(in/ft)

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Flats Top	Across Flats Bottom				
1	45.400	35.34	45.00	0.438	0.000	0.212638	65
2	44.656	27.69	37.19	0.375 Slip Joint	61.875	0.212638	65
3	45.052	19.50	29.08	0.250 Slip Joint	49.813	0.212638	65
4	16.200	10.75	10.75	0.375 Butt Joint	0.000	0.000000	35

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
136.000	136.000	3	Generic RCU
136.000	140.000	3	Kathrein 742-218 / AP20-1940/0
131.000	131.000	1	Raycap DC6-48-60-18-8F
131.000	131.000	6	Ericsson RRUS 11 (Band 4)
131.000	131.000	3	Powerwave P65-16-XLH-RR
131.000	131.000	6	Powerwave LGP219nn
131.000	131.000	6	Powerwave LGP21401
131.000	131.000	6	Powerwave 7770
131.000	131.000	1	Flat Platform w/ Handrails
120.000	120.000	3	RFS APXV9TM14-ALU-120
120.000	120.000	3	Alcatel-Lucent TD-RRH8x20-25
120.000	120.000	3	Alcatel-Lucent 800 MHz 2X50W
120.000	120.000	3	Alcatel-Lucent 1900 MHz 4x45
120.000	120.000	3	RFS APXVSP18-C-A20
120.000	120.000	3	Argus LLPX310R
120.000	120.000	2	DragonWave Horizon Compact
120.000	120.000	2	DragonWave A-ANT-18G-2-C
120.000	120.000	3	NextNet BTS-2500
120.000	120.000	1	Flat Platform w/ Handrails
110.000	110.000	9	48" x 12" Panel
110.000	110.000	3	72" x 12" Panel
110.000	110.000	1	Flat Platform w/ Handrails
100.000	100.000	1	GPS
100.000	100.000	3	Antel BXA-171063/12CF_2FP
100.000	100.000	3	Antel BXA-70080/6CF
100.000	100.000	1	RFS DB-T1-6Z-8AB-0Z
100.000	100.000	3	Alcatel-Lucent RRH2x40-AWS
100.000	100.000	6	RFS FD9R6004/1C-3L
100.000	100.000	3	Allgon P65-16-XL-2
100.000	100.000	3	Ryma MGD3-800TX
100.000	100.000	1	Flat Platform w/ Handrails
90.000	90.000	3	Ericsson AIR 21, 1.3M, B4A B2P
90.000	90.000	4	Ericsson AIR 21, 1.3M, B2A B4P
90.000	90.000	4	RFS ATMAA1412D-1A20
90.000	90.000	1	Flat Platform w/ Handrails
80.000	80.000	2	Stand-Offs
80.000	80.000	2	Diamond X50A
70.000	70.000	1	Stand-Off
70.000	70.000	1	PCTEL GPS-TMG-HR-26N



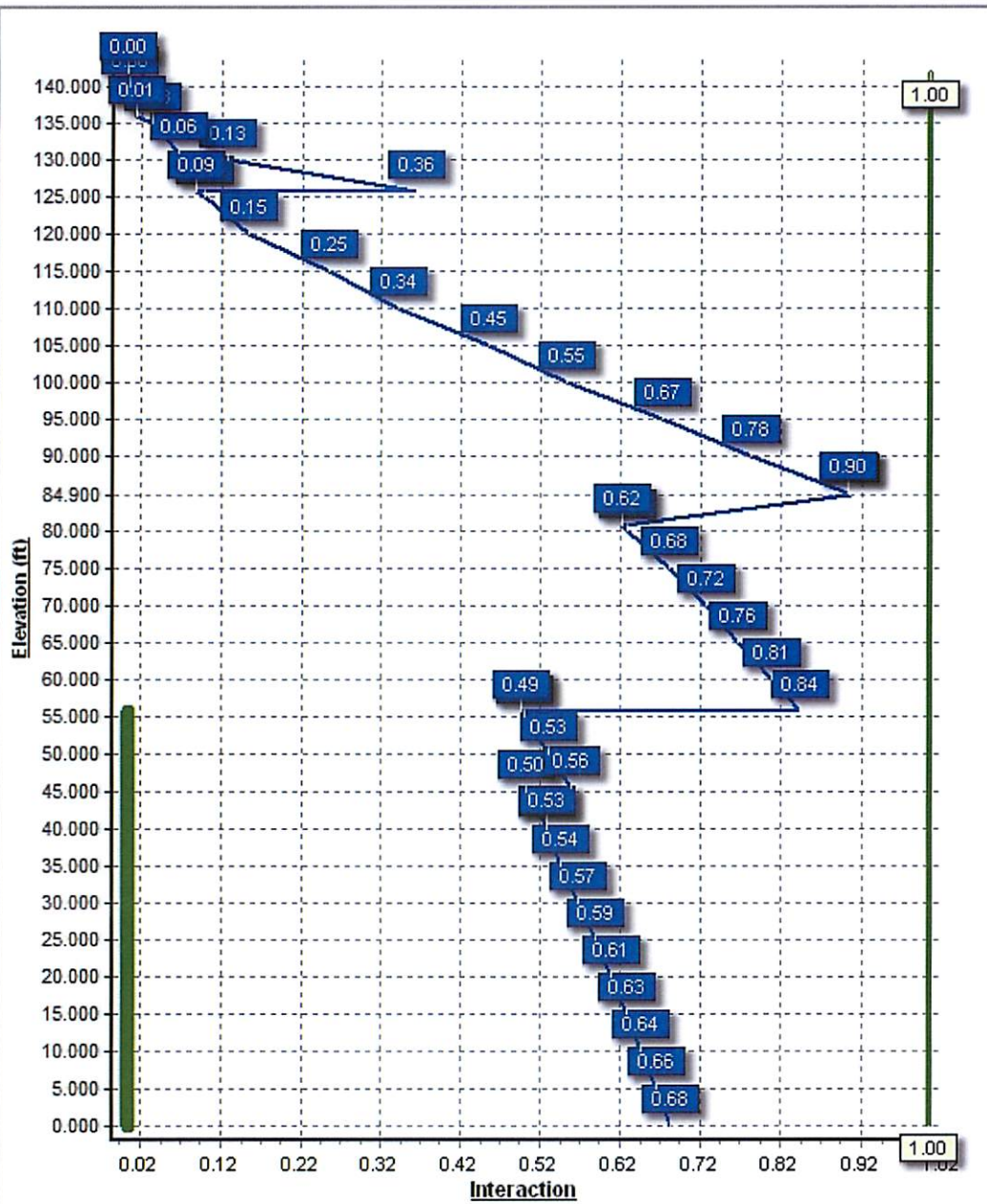


Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
0.000	63.000	DYWIDAG	Yes
0.000	70.000	1/2" Coax	No
0.000	80.000	1/2" Coax	Yes
0.000	90.000	1 1/4" Fiber	Yes
0.000	90.000	1 5/8" Coax	Yes
0.000	100.0	1 5/8" Coax	No
0.000	100.0	1 5/8" Hybriflex	No
0.000	110.0	1 5/8" Coax	No
0.000	120.0	1 1/4" Hybriflex	No
0.000	120.0	1 1/4" Hybriflex	No
0.000	120.0	1/2" Coax	Yes
0.000	120.0	2" Conduit	Yes
0.000	120.0	5/16" Coax	Yes
0.000	131.0	0.28" RG-6	No
0.000	131.0	0.65" 8 AWG 2C	No
0.000	131.0	1 1/4" Coax	No
0.000	131.0	3" Conduit	No
0.000	136.0	1 5/8" Coax	Yes
0.000	136.0	3/8" Coax	Yes

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

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3748.35	40.83	50.34
0.9D + 1.6W	3623.95	38.87	38.67
1.2D + 1.0Di + 1.0Wi	673.48	6.79	84.61
1.0D + 1.0W	679.60	7.25	42.64

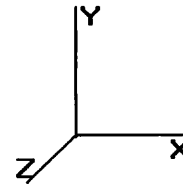
Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	120.00	14.624	1.228



Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

7/17/2014 9:55:19 AM
 Page: 1



© 2007 - 2014 by ATC IP LLC. All rights reserved.

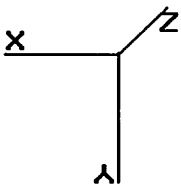
Shaft Section Properties

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Len (in)	Weight (lb)	Bottom						Top						
							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	Taper (in/ft)
1-12	45.400	0.4375	65		0.00	8,648	45.00	0.00	62.78	15912.1	25.42	102.86	35.34	45.40	49.18	7649.3	19.50	80.79	0.212638
2-12	44.656	0.3750	65	Slip	61.88	5,884	37.19	40.24	44.46	7692.0	24.43	99.18	27.69	84.90	32.99	3143.5	17.65	73.86	0.212638
3-12	45.052	0.2500	65	Slip	49.81	2,967	29.08	80.75	23.21	2462.1	29.02	116.32	19.50	125.80	15.50	732.9	18.76	78.00	0.212638
4-R	16.200	0.3750	35	Butt	0.00	674	10.75	125.80	12.22	164.6	0.00	28.67	10.75	142.00	12.22	164.6	0.00	28.67	0.000000
Shaft Weight						18,173													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	No Ice			Ice			Distance From Face (ft)	Vert Ecc (ft)
			Weight (lb)	EPAA (sf)	Orientation Factor	Weight (lb)	EPAA (sf)	Orientation Factor		
136.00	Generic RCU	3	1.00	0.160	0.50	11.02	0.359	0.50	0.000	0.000
136.00	Kathrein 742-218 / AP20-	3	22.50	3.850	0.73	110.55	4.763	0.73	0.000	4.000
131.00	Ericsson RRUS 11 (Band 4)	6	44.00	2.570	0.50	124.02	3.205	0.50	0.000	0.000
131.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,404.92	63.132	1.00	0.000	0.000
131.00	Powerwave 7770	6	35.00	5.510	0.65	167.86	6.545	0.65	0.000	0.000
131.00	Powerwave LGP21401	6	14.10	1.100	0.50	47.12	1.557	0.50	0.000	0.000
131.00	Powerwave LGP219nn	6	5.50	0.230	0.50	17.84	0.425	0.50	0.000	0.000
131.00	Powerwave P65-16-XLH-RR	3	53.00	8.130	0.67	241.57	9.411	0.67	0.000	0.000
131.00	Raycap DC6-48-60-18-8F	1	31.80	1.280	1.00	123.22	2.843	1.00	0.000	0.000
120.00	Alcatel-Lucent 1900 MHz	3	60.00	2.320	0.50	152.61	2.977	0.50	0.000	0.000
120.00	Alcatel-Lucent 800 MHz	3	64.00	2.060	0.50	152.36	2.641	0.50	0.000	0.000
120.00	Alcatel-Lucent TD-RRH8x20-	3	70.00	4.050	0.50	159.55	5.679	0.50	0.000	0.000
120.00	Argus LLPX310R	3	28.60	4.290	0.73	133.51	5.168	0.73	0.000	0.000
120.00	DragonWave A-ANT-18G-2-C	2	27.10	4.690	0.90	122.73	5.939	0.90	0.000	0.000
120.00	DragonWave Horizon	2	10.60	0.430	0.50	39.93	0.654	0.50	0.000	0.000
120.00	Flat Platform w/ Handrails	1	2000.00	42.400	1.00	3,392.66	62.951	1.00	0.000	0.000
120.00	NextNet BTS-2500	3	35.00	1.820	0.50	91.20	2.384	0.50	0.000	0.000
120.00	RFS APXV9TM14-ALU-I20	3	55.10	6.340	0.78	210.92	7.066	0.78	0.000	0.000
120.00	RFS APXVSP18-C-A20	3	57.00	8.020	0.69	251.45	9.284	0.69	0.000	0.000
110.00	48" x 12" Panel	9	30.00	5.070	0.66	158.39	6.020	0.66	0.000	0.000
110.00	72" x 12" Panel	3	45.00	8.130	0.67	229.67	9.387	0.67	0.000	0.000
110.00	Flat Platform w/ Handrails	1	2000.00	42.400	0.90	3,380.59	62.773	0.90	0.000	0.000
100.00	Alcatel-Lucent RRH2x40-AWS	3	44.00	2.160	0.50	113.88	2.776	0.50	0.000	0.000
100.00	Allgon P65-16-XL-2	3	33.00	8.130	0.75	206.09	9.374	0.75	0.000	0.000
100.00	Antel BXA-171063/12CF_2FP	3	15.00	4.790	0.72	129.08	5.936	0.72	0.000	0.000
100.00	Antel BXA-70080/6CF	3	18.00	5.840	0.88	161.83	7.033	0.88	0.000	0.000
100.00	Flat Platform w/ Handrails	1	2000.00	42.400	0.90	3,367.50	62.580	0.90	0.000	0.000
100.00	GPS	1	10.00	1.000	0.50	46.47	0.922	0.50	0.000	0.000
100.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.800	1.00	175.46	5.637	1.00	0.000	0.000
100.00	RFS FD9R6004/1C-3L	6	3.10	0.370	0.50	15.44	0.569	0.50	0.000	0.000
100.00	Ryma MGD3-800TX	3	15.40	3.340	0.82	98.01	4.237	0.82	0.000	0.000
90.00	Ericsson AIR 21, 1.3M, B2A	4	83.00	6.050	0.71	242.07	7.090	0.71	0.000	0.000
90.00	Ericsson AIR 21, 1.3M, B4A	3	81.50	6.090	0.70	240.53	7.135	0.70	0.000	0.000
90.00	Flat Platform w/ Handrails	1	2000.00	42.400	0.90	3,353.16	62.368	0.90	0.000	0.000
90.00	RFS ATMAA1412D-1A20	4	13.00	1.000	0.50	45.81	1.408	0.50	0.000	0.000
80.00	Diamond X50A	2	2.30	1.120	1.00	57.21	2.431	1.00	0.000	0.000
80.00	Stand-Offs	2	50.00	3.000	1.00	72.94	4.475	1.00	0.000	0.000
70.00	PCTEL GPS-TMG-HR-26N	1	0.60	0.090	1.00	9.99	0.257	1.00	0.000	0.000
70.00	Stand-Off	1	30.00	1.000	1.00	43.58	1.485	1.00	0.000	0.000
Totals		116	13654.90			30,775.42			Number of Loadings :	39

Pole : 302511
 Location : WSP - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides, Sect 4: Round
 Taper : 0.212638 (in/ft)
 Code: ANS/ITA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)



© 2007 - 2014 by ATC IP LLC. All rights reserved.

Linear Appurtenance Properties

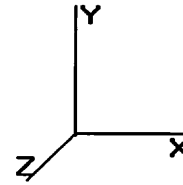
Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	To Wind
----------------	--------------	-------------	--------------------	---------

Elev From (ft)	Elev To (ft)	Description	Fy (ksi)	Offset (in)	Description	Spacing Len (in)	Connectors	Continuation?
0.00	136.00	(6) 1 5/8" Coax	1.98	Y				
0.00	136.00	(1) 3/8" Coax	0.00	Y				
0.00	131.00	(1) 0.28" RG-6	0.00	N				
0.00	131.00	(2) 0.65" 8 AWG2C	0.00	N				
0.00	131.00	(12) 1 1/4" Coax	0.00	N				
0.00	131.00	(1) 3" Conduit	0.00	N				
0.00	120.00	(1) 1 1/4" Hybridex	0.00	N				
0.00	120.00	(3) 1 1/4" Hybridex Cab	0.00	N				
0.00	120.00	(2) 1/2" Coax	0.00	Y				
0.00	120.00	(1) 2" Conduit	0.00	Y				
0.00	120.00	(6) 5/16" Coax	0.00	Y				
0.00	110.00	(12) 1 5/8" Coax	0.00	N				
0.00	100.00	(12) 1 5/8" Coax	0.00	N				
0.00	100.00	(1) 1 5/8" Hybridex	0.00	N				
0.00	90.00	(1) 1 1/4" Fiber	0.00	Y				
0.00	90.00	(14) 1 5/8" Coax	3.96	Y				
0.00	80.00	(2) 1/2" Coax	0.00	Y				
0.00	70.00	(1) 1/2" Coax	0.00	N				
0.00	63.00	(4) DWIDAG	1.46	Y				
Additional Steel								
0.00	55.68	4 SOL #20 All Thread	80	2.19	6" Angle Bracket	30.0	3.31	5/8" A36 U-Bolt

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



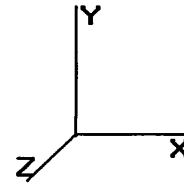
7/17/2014 9:55:19 AM
 Page: 3

Segment Properties (Max Len : 5 ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	S (in3)	Weight (lb)	Additional Reinforcing		
											Area (in^2)	Ix (in^4)	Weight (lb)
0.00		0.4375	45.000	62.777	15,912.1	25.42	102.86	77.0	683.1	0.0	19.64	6,615	0.0
5.00		0.4375	43.937	61.280	14,800.2	24.77	100.43	77.7	650.7	1,055.3	19.64	6,347	334.0
10.00		0.4375	42.874	59.782	13,741.3	24.11	98.00	78.4	619.2	1,029.9	19.64	6,084	334.0
15.00		0.4375	41.810	58.284	12,734.1	23.46	95.57	79.1	588.4	1,004.4	19.64	5,827	334.0
20.00		0.4375	40.747	56.786	11,777.4	22.81	93.14	79.8	558.4	978.9	19.64	5,576	334.0
25.00		0.4375	39.684	55.289	10,869.9	22.16	90.71	80.5	529.2	953.4	19.64	5,330	334.0
30.00		0.4375	38.621	53.791	10,010.2	21.51	88.28	81.3	500.7	927.9	19.64	5,090	334.0
35.00		0.4375	37.558	52.293	9,197.1	20.86	85.85	81.9	473.1	902.4	19.64	4,855	334.0
40.00		0.4375	36.494	50.795	8,429.2	20.21	83.42	81.9	446.2	877.0	19.64	4,626	334.0
40.24	Bot - Section 2	0.4375	36.443	50.722	8,392.9	20.18	83.30	81.9	444.9	42.1	19.64	4,615	16.3
45.00		0.4375	35.431	49.297	7,705.4	19.56	80.99	81.9	420.1	1,519.0	19.64	4,559	317.7
45.40	Top - Section 1	0.3750	36.096	43.133	7,025.1	23.65	96.26	78.9	376.0	125.8	19.64	4,542	26.7
50.00		0.3750	35.118	41.952	6,463.7	22.95	93.65	79.7	355.6	665.9	19.64	4,337	307.3
55.00		0.3750	34.055	40.668	5,888.2	22.19	90.81	80.5	334.0	702.9	19.64	4,121	334.0
55.68	Reinf. Top	0.3750	33.911	40.495	5,813.1	22.09	90.43	80.6	331.2	93.5	19.64	4,092	45.2
60.00		0.3750	32.992	39.385	5,348.0	21.43	87.98	81.3	313.2	587.5			
65.00		0.3750	31.929	38.101	4,841.9	20.67	85.14	81.9	293.0	659.2			
70.00		0.3750	30.865	36.817	4,368.8	19.91	82.31	81.9	273.4	637.3			
75.00		0.3750	29.802	35.533	3,927.5	19.15	79.47	81.9	254.6	615.5			
80.00		0.3750	28.739	34.249	3,517.0	18.39	76.64	81.9	236.4	593.6			
80.75	Bot - Section 3	0.3750	28.580	34.057	3,458.1	18.28	76.21	81.9	233.8	87.0			
84.90	Top - Section 2	0.2500	28.197	22.497	2,242.8	28.08	112.79	74.1	153.7	796.3			
85.00		0.2500	28.176	22.480	2,237.7	28.06	112.70	74.1	153.4	7.7			
90.00		0.2500	27.113	21.624	1,991.7	26.92	108.45	75.4	141.9	375.2			
95.00		0.2500	26.049	20.768	1,764.4	25.78	104.20	76.6	130.9	360.6			
100.0		0.2500	24.986	19.913	1,555.2	24.64	99.94	77.8	120.2	346.1			
105.0		0.2500	23.923	19.057	1,363.1	23.50	95.69	79.1	110.1	331.5			
110.0		0.2500	22.860	18.201	1,187.6	22.36	91.44	80.3	100.4	316.9			
115.0		0.2500	21.797	17.345	1,027.8	21.22	87.19	81.6	91.1	302.4			
120.0		0.2500	20.733	16.489	883.1	20.08	82.93	81.9	82.3	287.8			
125.0		0.2500	19.670	15.633	752.6	18.94	78.68	81.9	73.9	273.3			
125.8	Top - Section 3	0.2500	19.500	15.496	732.9	18.76	78.00	81.9	72.6	42.4			
125.8	Bot - Section 4	0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6				
130.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	174.7			
131.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	41.6			
135.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	166.4			
136.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	41.6			
140.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	166.4			
142.0		0.3750	10.750	12.223	164.6	0.00	28.67	35.0	30.6	83.2			
										18,172.5	3,719.2		

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:19 AM
 Page : 4

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W 110.00 mph with No Ice 25 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.20

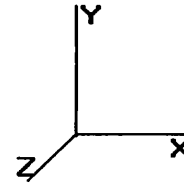
Wind Load Factor : 1.60

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	20.599	22.65	357.29	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	20.599	22.65	348.85	1.182	* 0.000	5.00	19.182	22.68	822.2	0.0	1,600.4
10.00		1.00	0.70	20.599	22.65	340.41	1.194	* 0.000	5.00	18.723	22.36	810.5	0.0	1,569.8
15.00		1.00	0.70	20.599	22.65	331.97	1.206	* 0.000	5.00	18.265	22.04	798.9	0.0	1,539.3
20.00		1.00	0.70	20.599	22.65	323.53	1.219	* 0.000	5.00	17.806	21.71	787.2	0.0	1,508.7
25.00		1.00	0.70	20.599	22.65	315.08	1.233	* 0.000	5.00	17.348	21.39	775.6	0.0	1,478.1
30.00		1.00	0.70	20.616	22.67	306.77	1.248	* 0.000	5.00	16.889	21.07	764.6	0.0	1,447.5
35.00		1.00	0.73	21.545	23.69	304.97	1.263	* 0.000	5.00	16.430	20.75	786.9	0.0	1,416.9
40.00		1.00	0.76	22.383	24.62	302.04	1.279	* 0.000	5.00	15.972	20.43	804.8	0.0	1,386.4
40.24	Bot - Section 2	1.00	0.76	22.421	24.66	301.88	1.288	* 0.000	0.24	0.767	0.99	39.0	0.0	66.8
45.00		1.00	0.78	23.149	25.46	298.22	1.297	* 0.000	4.76	15.054	19.52	795.3	0.0	2,140.6
45.40	Top - Section 1	1.00	0.78	23.207	25.52	297.88	1.200	* 0.000	0.40	1.247	1.50	61.1	0.0	177.6
50.00		1.00	0.81	23.856	26.24	300.07	1.200	* 0.000	4.60	14.131	16.96	712.0	0.0	1,106.4
55.00		1.00	0.83	24.515	26.96	294.97	1.200	* 0.000	5.00	14.919	17.90	772.5	0.0	1,177.4
55.68	Reinf. Top	1.00	0.83	24.600	27.06	294.24	1.200	* 0.000	0.68	1.985	2.38	103.1	0.0	157.4
60.00		1.00	0.85	25.132	27.64	289.34	1.200	* 0.000	4.32	12.476	14.97	662.2	0.0	705.0
65.00		1.00	0.87	25.713	28.28	283.23	1.200	* 0.000	5.00	14.002	16.80	760.4	0.0	791.0
70.00	Appertunance(s)	1.00	0.89	26.263	28.89	276.71	1.248	* 0.000	5.00	13.544	16.91	781.4	0.0	764.8
75.00		1.00	0.91	26.786	29.46	269.83	1.267	* 0.000	5.00	13.085	16.58	781.9	0.0	738.6
80.00	Appertunance(s)	1.00	0.92	27.285	30.01	262.61	1.288	* 0.000	5.00	12.626	16.26	781.0	0.0	712.4
80.75	Bot - Section 3	1.00	0.93	27.357	30.09	261.51	1.200	* 0.000	0.75	1.851	2.22	106.9	0.0	104.4
84.90	Top - Section 2	1.00	0.94	27.752	30.52	255.25	1.200	* 0.000	4.15	10.256	12.31	601.1	0.0	955.6
85.00		1.00	0.94	27.761	30.53	259.71	1.200	* 0.000	0.10	0.244	0.29	14.3	0.0	9.2
90.00	Appertunance(s)	1.00	0.95	28.219	31.04	251.95	1.200	* 0.000	5.00	11.925	14.31	710.7	0.0	450.2
95.00		1.00	0.97	28.658	31.52	243.95	1.000	0.000	5.00	11.466	11.47	578.3	0.0	432.8
100.0	Appertunance(s)	1.00	0.98	29.081	31.98	235.72	1.000	0.000	5.00	11.007	11.01	563.4	0.0	415.3
105.0		1.00	1.00	29.489	32.43	227.26	1.000	0.000	5.00	10.549	10.55	547.5	0.0	397.8
110.0	Appertunance(s)	1.00	1.01	29.884	32.87	218.61	1.000	0.000	5.00	10.090	10.09	530.7	0.0	380.3
115.0		1.00	1.02	30.266	33.29	209.77	1.000	0.000	5.00	9.632	9.63	513.1	0.0	362.9
120.0	Appertunance(s)	1.00	1.04	30.636	33.69	200.76	1.000	0.000	5.00	9.173	9.17	494.6	0.0	345.4
125.0		1.00	1.05	30.995	34.09	191.58	1.000	0.000	5.00	8.714	8.71	475.4	0.0	327.9
125.8	Top - Section 3	1.00	1.05	31.052	34.15	190.09	1.000	0.000	0.80	1.353	1.35	73.9	0.0	50.9
130.0		1.00	1.06	31.345	34.47	101.70	0.752	* 0.000	4.20	3.762	2.83	156.0	0.0	209.6
131.0	Appertunance(s)	1.00	1.06	31.413	34.55	101.81	0.752	* 0.000	1.00	0.896	0.67	37.2	0.0	49.9
135.0		1.00	1.07	31.684	34.85	102.25	0.752	* 0.000	4.00	3.583	2.69	150.2	0.0	199.6
136.0	Appertunance(s)	1.00	1.07	31.751	34.92	102.35	0.752	* 0.000	1.00	0.896	0.67	37.6	0.0	49.9
140.0		1.00	1.08	32.015	35.21	102.78	0.600	0.000	4.00	3.583	2.15	121.1	0.0	199.6
142.0		1.00	1.09	32.145	35.36	102.99	0.600	0.000	2.00	1.792	1.08	60.8	0.0	99.8
* = Cf Adjusted By Linear Load Ra Effect								Totals:	142.00			18,373.4	0.0	25,526.3

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:19 AM
 Page: 5

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W 110.00 mph with No Ice 25 Iterations
Gust Response Factor: 1.10 **Wind Importance Factor:** 1.00
Dead Load Factor: 1.20
Wind Load Factor: 1.60

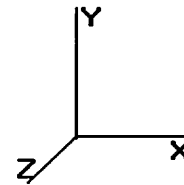
Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orientation Factor	Ka	Total EPAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
70.00	PCTEL GPS-TMG-HR-	1	26.263	28.890	1.00	1.00	0.09	0.000	0.000	4.16	0.00	0.00	0.72
70.00	Stand-Off	1	26.263	28.890	1.00	1.00	1.00	0.000	0.000	46.22	0.00	0.00	36.00
80.00	Diamond X50A	2	27.285	30.013	1.00	1.00	2.24	0.000	0.000	107.57	0.00	0.00	5.52
80.00	Stand-Offs	2	27.285	30.013	1.00	1.00	6.00	0.000	0.000	288.13	0.00	0.00	120.00
90.00	Flat Platform w/ Han	1	28.219	31.040	0.90	1.00	38.16	0.000	0.000	1,895.20	0.00	0.00	2,400.00
90.00	RFS ATMAA1412D-	4	28.219	31.040	0.50	0.75	1.50	0.000	0.000	74.50	0.00	0.00	62.40
90.00	Ericsson AIR 21, 1.3	4	28.219	31.040	0.71	0.75	12.89	0.000	0.000	640.00	0.00	0.00	398.40
90.00	Ericsson AIR 21, 1.3	3	28.219	31.040	0.70	0.75	9.59	0.000	0.000	476.37	0.00	0.00	293.40
100.0	Flat Platform w/ Han	1	29.081	31.989	0.90	1.00	38.16	0.000	0.000	1,953.11	0.00	0.00	2,400.00
100.0	Rymsa MGD3-800TX	3	29.081	31.989	0.82	0.75	6.16	0.000	0.000	315.40	0.00	0.00	55.44
100.0	Allgon P65-16-XL-2	3	29.081	31.989	0.75	0.75	13.72	0.000	0.000	702.19	0.00	0.00	118.80
100.0	RFS FD9R6004/1C-3L	6	29.081	31.989	0.50	0.75	0.83	0.000	0.000	42.61	0.00	0.00	22.32
100.0	Alcatel-Lucent RRH2x	3	29.081	31.989	0.50	0.75	2.43	0.000	0.000	124.37	0.00	0.00	158.40
100.0	RFS DB-T1-6Z-8AB-0Z	1	29.081	31.989	1.00	0.75	3.60	0.000	0.000	184.26	0.00	0.00	52.80
100.0	Antel BXA-70080/6CF	3	29.081	31.989	0.88	0.75	11.56	0.000	0.000	591.83	0.00	0.00	64.80
100.0	Antel BXA-171063/12C	3	29.081	31.989	0.72	0.75	7.76	0.000	0.000	397.16	0.00	0.00	54.00
100.0	GPS	1	29.081	31.989	0.50	0.75	0.38	0.000	0.000	19.19	0.00	0.00	12.00
110.0	Flat Platform w/ Han	1	29.884	32.872	0.90	1.00	38.16	0.000	0.000	2,007.03	0.00	0.00	2,400.00
110.0	72" x 12" Panel	3	29.884	32.872	0.67	0.75	12.26	0.000	0.000	644.61	0.00	0.00	162.00
110.0	48" x 12" Panel	9	29.884	32.872	0.66	0.75	22.59	0.000	0.000	1,187.96	0.00	0.00	324.00
120.0	Flat Platform w/ Han	1	30.636	33.699	1.00	1.00	42.40	0.000	0.000	2,286.17	0.00	0.00	2,400.00
120.0	NextNet BTS-2500	3	30.636	33.699	0.50	0.75	2.05	0.000	0.000	110.40	0.00	0.00	126.00
120.0	DragonWave A-ANT-	2	30.636	33.699	0.90	0.75	6.33	0.000	0.000	341.39	0.00	0.00	65.04
120.0	DragonWave Horizon	2	30.636	33.699	0.50	0.75	0.32	0.000	0.000	17.39	0.00	0.00	25.44
120.0	Argus LLPX310R	3	30.636	33.699	0.73	0.75	7.05	0.000	0.000	379.93	0.00	0.00	102.96
120.0	RFS APXVSP18-C-	3	30.636	33.699	0.69	0.75	12.45	0.000	0.000	671.35	0.00	0.00	205.20
120.0	Alcatel-Lucent 1900	3	30.636	33.699	0.50	0.75	2.61	0.000	0.000	140.73	0.00	0.00	216.00
120.0	Alcatel-Lucent 800 M	3	30.636	33.699	0.50	0.75	2.32	0.000	0.000	124.96	0.00	0.00	230.40
120.0	Alcatel-Lucent TD-RR	3	30.636	33.699	0.50	0.75	4.56	0.000	0.000	245.67	0.00	0.00	252.00
120.0	RFS APXV9TM14-ALU-	3	30.636	33.699	0.78	0.75	11.13	0.000	0.000	599.94	0.00	0.00	198.36
131.0	Flat Platform w/ Han	1	31.413	34.555	1.00	1.00	42.40	0.000	0.000	2,344.18	0.00	0.00	2,400.00
131.0	Powerwave 7770	6	31.413	34.555	0.65	0.75	16.12	0.000	0.000	891.05	0.00	0.00	252.00
131.0	Powerwave LGP21401	6	31.413	34.555	0.50	0.75	2.48	0.000	0.000	136.84	0.00	0.00	101.52
131.0	Powerwave LGP219nn	6	31.413	34.555	0.50	0.75	0.52	0.000	0.000	28.61	0.00	0.00	39.60
131.0	Powerwave P65-16-	3	31.413	34.555	0.67	0.75	12.26	0.000	0.000	677.60	0.00	0.00	190.80
131.0	Ericsson RRUS 11 (Ba	6	31.413	34.555	0.50	0.75	5.78	0.000	0.000	319.70	0.00	0.00	316.80
131.0	Raycap DC6-48-60-18-	1	31.413	34.555	1.00	0.75	0.96	0.000	0.000	53.08	0.00	0.00	38.16
136.0	Kathrein 742-218 / A	3	32.015	35.217	0.73	0.80	6.75	0.000	4.000	380.07	0.00	1,520.29	81.00
136.0	Generic RCU	3	31.751	34.926	0.50	0.80	0.19	0.000	0.000	10.73	0.00	0.00	3.60
										21,461.66			16,385.88

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:19 AM
 Page: 6

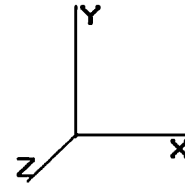
Load Case: 1.2D + 1.6W 110.00 mph with No Ice 25 Iterations
Gust Response Factor : 1.10 **Wind Importance Factor :** 1.00
Dead Load Factor : 1.20
Wind Load Factor : 1.60

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)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.161	1.182	0.00	29.52
5.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	0.48
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.80
5.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	21.90
5.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.62
5.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	6.30
5.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.161	1.182	0.00	68.87
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.80
5.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.161	1.182	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.165	1.194	0.00	29.52
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	0.48
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.80
10.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	21.90
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.62
10.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	6.30
10.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.165	1.194	0.00	68.87
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.80
10.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.165	1.194	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.169	1.206	0.00	29.52
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	0.48
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.80
15.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	21.90
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.62
15.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	6.30
15.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.169	1.206	0.00	68.87
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.80
15.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.169	1.206	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.173	1.219	0.00	29.52
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	0.48
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.80
20.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	21.90
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.62
20.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	6.30
20.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.173	1.219	0.00	68.87
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.80
20.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.173	1.219	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.178	1.233	0.00	29.52
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	0.48
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.80
25.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	21.90
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.62
25.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	6.30
25.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.178	1.233	0.00	68.87
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.80
25.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.178	1.233	0.00	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.616	0.183	1.248	0.00	29.52
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	0.48
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.80
30.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	21.90
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.62
30.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	6.30

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:19 AM
 Page: 7

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W 110.00 mph with No Ice 25 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

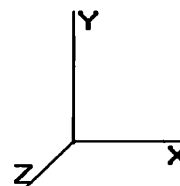
Dead Load Factor : 1.20

Wind Load Factor : 1.60

30.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.616	0.183	1.248	0.00	68.87
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.80
30.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.616	0.183	1.248	0.00	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.545	0.188	1.263	0.00	29.52
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	0.48
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.80
35.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	21.90
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.62
35.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	6.30
35.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	21.545	0.188	1.263	0.00	68.87
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.80
35.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	21.545	0.188	1.263	0.00	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.383	0.193	1.279	0.00	29.52
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	0.48
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.80
40.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	21.90
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.62
40.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	6.30
40.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	22.383	0.193	1.279	0.00	68.87
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.80
40.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	22.383	0.193	1.279	0.00	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	0.000	1.98	0.04	0.00	22.421	0.196	1.288	0.00	1.44
40.24	(1) 3/8" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.02
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.09
40.24	(1) 2" Conduit	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	1.07
40.24	(6) 5/16" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.08
40.24	(1) 1 1/4" Fiber	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.31
40.24	(14) 1 5/8" Coax	Yes	0.24	0.000	3.96	0.08	0.00	22.421	0.196	1.288	0.00	3.36
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.09
40.24	(4) DYWIDAG	Yes	0.24	0.000	1.46	0.03	0.00	22.421	0.196	1.288	0.00	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	0.000	1.98	0.78	0.00	23.149	0.199	1.297	0.00	28.08
45.00	(1) 3/8" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	0.46
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.71
45.00	(1) 2" Conduit	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	20.83
45.00	(6) 5/16" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.54
45.00	(1) 1 1/4" Fiber	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	5.99
45.00	(14) 1 5/8" Coax	Yes	4.76	0.000	3.96	1.57	0.00	23.149	0.199	1.297	0.00	65.52
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.71
45.00	(4) DYWIDAG	Yes	4.76	0.000	1.46	0.58	0.00	23.149	0.199	1.297	0.00	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.200	1.98	0.07	0.08	23.207	0.202	0.000	3.23	2.36
45.40	(1) 3/8" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.04
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.14
45.40	(1) 2" Conduit	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	1.75
45.40	(6) 5/16" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.13
45.40	(1) 1 1/4" Fiber	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.50
45.40	(14) 1 5/8" Coax	Yes	0.40	1.191	3.96	0.13	0.16	23.207	0.202	0.000	6.42	5.51
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.14
45.40	(4) DYWIDAG	Yes	0.40	1.200	1.46	0.05	0.06	23.207	0.202	0.000	2.38	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.200	1.98	0.76	0.91	23.856	0.201	0.000	38.24	27.16
50.00	(1) 3/8" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	0.44
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.66
50.00	(1) 2" Conduit	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	20.15
50.00	(6) 5/16" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.49
50.00	(1) 1 1/4" Fiber	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	5.80
50.00	(14) 1 5/8" Coax	Yes	4.60	1.175	3.96	1.52	1.78	23.856	0.201	0.000	74.88	63.36
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.66
50.00	(4) DYWIDAG	Yes	4.60	1.200	1.46	0.56	0.67	23.856	0.201	0.000	28.20	0.00

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:19 AM
 Page: 8

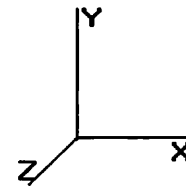
© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W **110.00 mph with No Ice** **25 Iterations**
Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**
Dead Load Factor : 1.20
Wind Load Factor : 1.60

55.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	24.515	0.207	0.000	42.71	29.52
55.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	0.48
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.80
55.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	21.90
55.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.62
55.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	6.30
55.00	(14) 1 5/8" Coax	Yes	5.00	1.159	3.96	1.65	1.91	24.515	0.207	0.000	82.51	68.87
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.80
55.00	(4) DYWIDAG	Yes	5.00	1.200	1.46	0.61	0.73	24.515	0.207	0.000	31.50	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.200	1.98	0.11	0.13	24.600	0.210	0.000	5.80	4.00
55.68	(1) 3/8" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.06
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.24
55.68	(1) 2" Conduit	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	2.97
55.68	(6) 5/16" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.22
55.68	(1) 1 1/4" Fiber	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.85
55.68	(14) 1 5/8" Coax	Yes	0.68	1.157	3.96	0.22	0.26	24.600	0.210	0.000	11.19	9.33
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.24
55.68	(4) DYWIDAG	Yes	0.68	1.200	1.46	0.08	0.10	24.600	0.210	0.000	4.28	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.200	1.98	0.71	0.86	25.132	0.214	0.000	37.86	25.52
60.00	(1) 3/8" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	0.42
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.56
60.00	(1) 2" Conduit	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	18.93
60.00	(6) 5/16" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.40
60.00	(1) 1 1/4" Fiber	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	5.45
60.00	(14) 1 5/8" Coax	Yes	4.32	1.145	3.96	1.43	1.63	25.132	0.214	0.000	72.23	59.55
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.56
60.00	(4) DYWIDAG	Yes	4.32	1.200	1.46	0.53	0.63	25.132	0.214	0.000	27.92	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	25.713	0.203	0.000	44.80	29.52
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	0.48
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.80
65.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	21.90
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.62
65.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	6.30
65.00	(14) 1 5/8" Coax	Yes	5.00	1.132	3.96	1.65	1.87	25.713	0.203	0.000	84.50	68.87
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.80
65.00	(4) DYWIDAG	Yes	3.00	1.200	1.46	0.37	0.44	25.713	0.203	0.000	19.82	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.263	0.183	1.248	0.00	29.52
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	0.48
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.80
70.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	21.90
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.62
70.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	6.30
70.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.263	0.183	1.248	0.00	68.87
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.80
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.786	0.189	1.267	0.00	29.52
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	0.48
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.80
75.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	21.90
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.62
75.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	6.30
75.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.786	0.189	1.267	0.00	68.87
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.80
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.285	0.196	1.288	0.00	29.52
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	0.48
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.80
80.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	21.90
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.62

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:19 AM
 Page: 9

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.6W **110.00 mph with No Ice** **25 Iterations**

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

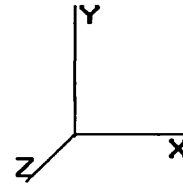
Dead Load Factor : 1.20

Wind Load Factor : 1.60

80.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	6.30
80.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	27.285	0.196	1.288	0.00	68.87
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.80
80.75	(6) 1 5/8" Coax	Yes	0.75	1.200	1.98	0.12	0.15	27.357	0.200	0.000	7.14	4.42
80.75	(1) 3/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.07
80.75	(2) 1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.27
80.75	(1) 2" Conduit	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	3.28
80.75	(6) 5/16" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.24
80.75	(1) 1 1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.94
80.75	(14) 1 5/8" Coax	Yes	0.75	1.097	3.96	0.25	0.27	27.357	0.200	0.000	13.05	10.31
84.90	(6) 1 5/8" Coax	Yes	4.15	1.200	1.98	0.68	0.82	27.752	0.204	0.000	40.15	24.50
84.90	(1) 3/8" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	0.40
84.90	(2) 1/2" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	1.49
84.90	(1) 2" Conduit	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	18.18
84.90	(6) 5/16" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	1.34
84.90	(1) 1 1/4" Fiber	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	5.23
84.90	(14) 1 5/8" Coax	Yes	4.15	1.089	3.96	1.37	1.49	27.752	0.204	0.000	72.88	57.18
85.00	(6) 1 5/8" Coax	Yes	0.10	1.200	1.98	0.02	0.02	27.761	0.204	0.000	0.97	0.59
85.00	(1) 3/8" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.01
85.00	(2) 1/2" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.04
85.00	(1) 2" Conduit	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.44
85.00	(6) 5/16" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.03
85.00	(1) 1 1/4" Fiber	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.13
85.00	(14) 1 5/8" Coax	Yes	0.10	1.089	3.96	0.03	0.04	27.761	0.204	0.000	1.76	1.38
90.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	28.219	0.208	0.000	49.17	29.52
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	0.48
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	1.80
90.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	21.90
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	1.62
90.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	6.30
90.00	(14) 1 5/8" Coax	Yes	5.00	1.080	3.96	1.65	1.78	28.219	0.208	0.000	88.52	68.87
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.658	0.072	0.000	0.00	29.52
95.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	0.48
95.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	1.80
95.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	21.90
95.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	1.62
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.081	0.075	0.000	0.00	29.52
100.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	0.48
100.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	1.80
100.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	21.90
100.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	1.62
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.489	0.078	0.000	0.00	29.52
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	0.48
105.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	1.80
105.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	21.90
105.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	1.62
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.884	0.082	0.000	0.00	29.52
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	0.48
110.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	1.80
110.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	21.90
110.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	1.62
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.266	0.086	0.000	0.00	29.52
115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	0.48
115.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	1.80
115.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	21.90
115.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	1.62
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.636	0.090	0.000	0.00	29.52

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:19 AM
 Page: 10

© 2007 - 2014 by ATC IP LLC. All rights reserved.

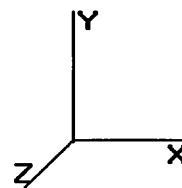
Load Case: 1.2D + 1.6W	110.00 mph with No Ice	25 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.20		
Wind Load Factor : 1.60		

120.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	30.636	0.090	0.000	0.00	0.48
120.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	30.636	0.090	0.000	0.00	1.80
120.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.00	30.636	0.090	0.000	0.00	21.90
120.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	30.636	0.090	0.000	0.00	1.62
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.00	30.995	0.095	0.000	0.00	29.52
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	30.995	0.095	0.000	0.00	0.48
125.8	(6) 1 5/8" Coax	Yes	0.80	0.000	1.98	0.13	0.00	0.00	31.052	0.098	0.000	0.00	4.73
125.8	(1) 3/8" Coax	Yes	0.80	0.000	0.00	0.00	0.00	0.00	31.052	0.098	0.000	0.00	0.08
130.0	(6) 1 5/8" Coax	Yes	4.20	0.000	1.98	0.69	0.00	0.00	31.345	0.184	1.253	0.00	24.79
130.0	(1) 3/8" Coax	Yes	4.20	0.000	0.00	0.00	0.00	0.00	31.345	0.184	1.253	0.00	0.40
131.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.00	31.413	0.184	1.253	0.00	5.90
131.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.00	31.413	0.184	1.253	0.00	0.10
135.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	0.00	31.684	0.184	1.253	0.00	23.61
135.0	(1) 3/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.00	31.684	0.184	1.253	0.00	0.38
136.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.00	31.751	0.184	1.253	0.00	5.90
136.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.00	31.751	0.184	1.253	0.00	0.10
Totals:											892.14	2,805.47	

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:19 AM

Page: 11

Load Case: 1.2D + 1.6W 110.00 mph with No Ice 25 Iterations
Gust Response Factor: 1.10 **Wind Importance Factor:** 1.00
Dead Load Factor: 1.20
Wind Load Factor: 1.60

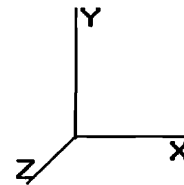
Applied Segment Forces Summary

Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	822.16	1,978.19	0.00	0.00
10.00	810.52	1,947.61	0.00	0.00
15.00	798.88	1,917.04	0.00	0.00
20.00	787.24	1,886.46	0.00	0.00
25.00	775.60	1,855.88	0.00	0.00
30.00	764.61	1,825.30	0.00	0.00
35.00	786.86	1,794.72	0.00	0.00
40.00	804.82	1,764.14	0.00	0.00
40.24	38.96	85.19	0.00	0.00
45.00	795.31	2,499.95	0.00	0.00
45.40	73.15	207.85	0.00	0.00
50.00	853.31	1,453.96	0.00	0.00
55.00	929.17	1,555.20	0.00	0.00
55.68	124.40	208.56	0.00	0.00
60.00	800.21	1,031.65	0.00	0.00
65.00	909.53	1,168.78	0.00	0.00
70.00	831.81	1,179.29	0.00	0.00
75.00	781.85	1,115.46	0.00	0.00
80.00	1,176.68	1,214.77	0.00	0.00
80.75	127.11	160.53	0.00	0.00
84.90	714.17	1,267.00	0.00	0.00
85.00	17.06	16.76	0.00	0.00
90.00	3,934.44	3,979.51	0.00	0.00
95.00	578.32	732.67	0.00	0.00
100.0	4,893.52	3,653.75	0.00	0.00
105.0	547.49	630.89	0.00	0.00
110.0	4,370.30	3,499.41	0.00	0.00
115.0	513.05	536.91	0.00	0.00
120.0	5,412.53	4,340.83	0.00	0.00
125.0	475.38	452.64	0.00	0.00
125.8	73.92	70.84	0.00	0.00
130.0	155.97	314.35	0.00	0.00
131.0	4,488.28	3,413.73	0.00	0.00
135.0	150.17	223.64	0.00	0.00
136.0	428.42	140.51	0.00	1,520.29
140.0	121.15	199.64	0.00	0.00
142.0	60.82	99.82	0.00	0.00
Totals:	40,727.17	50,423.41	0.00	1,520.29

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides, Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:19 AM
 Page: 12

Load Case: 1.2D + 1.6W

110.00 mph with No Ice

25 Iterations

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

Wind Importance Factor : 1.00

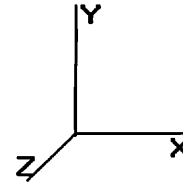
Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-50.34	-40.83	0.00	-3,748.35	0.00	3,748.35	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.680
5.00	-48.20	-40.20	0.00	-3,544.20	0.00	3,544.20	4,285.51	2,142.75	7,679.11	3,792.42	0.12	-0.23	0.663
10.00	-46.10	-39.56	0.00	-3,343.20	0.00	3,343.20	4,218.97	2,109.49	7,373.27	3,641.38	0.49	-0.46	0.645
15.00	-44.03	-38.93	0.00	-3,145.39	0.00	3,145.39	4,150.52	2,075.26	7,070.06	3,491.64	1.10	-0.69	0.626
20.00	-42.00	-38.28	0.00	-2,950.76	0.00	2,950.76	4,080.16	2,040.08	6,769.73	3,343.32	1.95	-0.93	0.607
25.00	-40.01	-37.64	0.00	-2,759.35	0.00	2,759.35	4,007.88	2,003.94	6,472.54	3,196.54	3.05	-1.16	0.587
30.00	-38.05	-36.99	0.00	-2,571.16	0.00	2,571.16	3,933.69	1,966.85	6,178.73	3,051.44	4.40	-1.40	0.566
35.00	-36.13	-36.30	0.00	-2,386.22	0.00	2,386.22	3,854.52	1,927.26	5,883.88	2,905.83	5.99	-1.63	0.545
40.00	-34.31	-35.52	0.00	-2,204.72	0.00	2,204.72	3,744.12	1,872.06	5,549.75	2,740.81	7.82	-1.86	0.526
40.24	-34.16	-35.54	0.00	-2,196.07	0.00	2,196.07	3,738.74	1,869.37	5,533.72	2,732.90	7.91	-1.87	0.525
45.00	-31.61	-34.73	0.00	-2,027.01	0.00	2,027.01	3,633.72	1,816.86	5,225.39	2,580.62	9.89	-2.09	0.500
45.40	-31.34	-34.71	0.00	-2,013.13	0.00	2,013.13	3,063.79	1,531.89	4,506.32	2,225.50	10.07	-2.11	0.557
50.00	-29.79	-33.92	0.00	-1,853.47	0.00	1,853.47	3,008.67	1,504.34	4,302.82	2,125.00	12.21	-2.32	0.529
55.00	-28.20	-32.98	0.00	-1,683.89	0.00	1,683.89	2,946.93	1,473.46	4,084.17	2,017.02	14.76	-2.55	0.498
55.68	-27.93	-32.91	0.00	-1,661.56	0.00	1,661.56	2,938.42	1,469.21	4,054.78	2,002.51	15.13	-2.58	0.494
55.68	-27.93	-32.91	0.00	-1,661.56	0.00	1,661.56	2,938.42	1,469.21	4,054.78	2,002.51	15.13	-2.58	0.840
60.00	-26.77	-32.20	0.00	-1,519.30	0.00	1,519.30	2,883.27	1,441.64	3,868.42	1,910.47	17.56	-2.78	0.805
65.00	-25.45	-31.40	0.00	-1,358.32	0.00	1,358.32	2,808.41	1,404.21	3,643.77	1,799.52	20.68	-3.17	0.764
70.00	-24.12	-30.66	0.00	-1,201.34	0.00	1,201.34	2,713.79	1,356.89	3,400.96	1,679.60	24.20	-3.54	0.725
75.00	-22.87	-29.95	0.00	-1,048.07	0.00	1,048.07	2,619.16	1,309.58	3,166.52	1,563.83	28.10	-3.91	0.679
80.00	-21.64	-28.76	0.00	-898.34	0.00	898.34	2,524.53	1,262.26	2,940.46	1,452.18	32.38	-4.26	0.628
80.75	-21.41	-28.69	0.00	-876.81	0.00	876.81	2,510.36	1,255.18	2,907.34	1,435.82	33.06	-4.31	0.620
84.90	-20.13	-27.92	0.00	-757.73	0.00	757.73	1,500.18	750.09	1,728.96	853.87	36.93	-4.59	0.902
85.00	-20.00	-27.99	0.00	-754.93	0.00	754.93	1,499.54	749.77	1,726.89	852.85	37.03	-4.60	0.900
90.00	-16.20	-23.85	0.00	-615.00	0.00	615.00	1,466.64	733.32	1,624.12	802.09	42.08	-5.03	0.779
95.00	-15.37	-23.31	0.00	-495.75	0.00	495.75	1,431.82	715.91	1,522.23	751.77	47.56	-5.43	0.671
100.00	-12.11	-18.15	0.00	-379.22	0.00	379.22	1,395.09	697.54	1,421.47	702.01	53.44	-5.78	0.550
105.00	-11.45	-17.60	0.00	-288.47	0.00	288.47	1,356.44	678.22	1,322.10	652.93	59.65	-6.09	0.451
110.00	-8.40	-12.91	0.00	-200.50	0.00	200.50	1,315.88	657.94	1,224.36	604.67	66.16	-6.34	0.338
115.00	-7.88	-12.36	0.00	-135.97	0.00	135.97	1,273.40	636.70	1,128.51	557.33	72.91	-6.55	0.251
120.00	-4.18	-6.49	0.00	-74.18	0.00	74.18	1,215.41	607.71	1,023.36	505.40	79.83	-6.69	0.150
125.00	-3.78	-5.97	0.00	-41.73	0.00	41.73	1,152.33	576.16	919.28	454.00	86.88	-6.79	0.095
125.80	-3.72	-5.89	0.00	-36.95	0.00	36.95	1,142.23	571.11	903.13	446.02	88.02	-6.80	0.086
125.80	-3.72	-5.89	0.00	-36.95	0.00	36.95	385.02	192.51	160.54	106.00	88.02	-6.80	0.359
130.00	-3.42	-5.70	0.00	-12.22	0.00	12.22	385.02	192.51	160.54	106.00	94.00	-6.84	0.125
131.00	-0.57	-0.83	0.00	-6.53	0.00	6.53	385.02	192.51	160.54	106.00	95.43	-6.85	0.063
135.00	-0.36	-0.66	0.00	-3.19	0.00	3.19	385.02	192.51	160.54	106.00	101.18	-6.89	0.031
136.00	-0.28	-0.22	0.00	-1.01	0.00	1.01	385.02	192.51	160.54	106.00	102.62	-6.89	0.010
140.00	-0.09	-0.07	0.00	-0.14	0.00	0.14	385.02	192.51	160.54	106.00	108.38	-6.90	0.002
142.00	0.00	-0.06	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	111.26	-6.90	0.000

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:19 AM
 Page : 13

Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 25 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

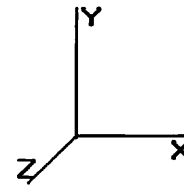
Shaft Segment Forces (Factored)

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	20.599	22.65	357.29	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	20.599	22.65	348.85	1.000	* 0.000	5.00	19.182	19.18	695.4	0.0	1,283.8
10.00		1.00	0.70	20.599	22.65	340.41	1.000	* 0.000	5.00	18.723	18.72	678.8	0.0	1,260.9
15.00		1.00	0.70	20.599	22.65	331.97	1.000	* 0.000	5.00	18.265	18.26	662.2	0.0	1,237.9
20.00		1.00	0.70	20.599	22.65	323.53	1.000	* 0.000	5.00	17.806	17.81	645.6	0.0	1,215.0
25.00		1.00	0.70	20.599	22.65	315.08	1.000	* 0.000	5.00	17.348	17.35	628.9	0.0	1,192.1
30.00		1.00	0.70	20.616	22.67	306.77	1.000	* 0.000	5.00	16.889	16.89	612.8	0.0	1,169.1
35.00		1.00	0.73	21.545	23.69	304.97	1.000	* 0.000	5.00	16.430	16.43	623.0	0.0	1,146.2
40.00		1.00	0.76	22.383	24.62	302.04	1.000	* 0.000	5.00	15.972	15.97	629.2	0.0	1,123.3
40.24	Bot - Section 2	1.00	0.76	22.421	24.66	301.88	1.000	* 0.000	0.24	0.767	0.77	30.3	0.0	54.2
45.00		1.00	0.78	23.149	25.46	298.22	1.000	* 0.000	4.76	15.054	15.05	613.3	0.0	1,684.9
45.40	Top - Section 1	1.00	0.78	23.207	25.52	297.88	1.200	* 0.000	0.40	1.247	1.50	61.1	0.0	139.9
50.00		1.00	0.81	23.856	26.24	300.07	1.200	* 0.000	4.60	14.131	16.96	712.0	0.0	906.6
55.00		1.00	0.83	24.515	26.96	294.97	1.200	* 0.000	5.00	14.919	17.90	772.5	0.0	966.6
55.68	Reinf. Top	1.00	0.83	24.600	27.06	294.24	1.200	* 0.000	0.68	1.985	2.38	103.1	0.0	129.4
60.00		1.00	0.85	25.132	27.64	289.34	1.200	* 0.000	4.32	12.476	14.97	662.2	0.0	528.8
65.00		1.00	0.87	25.713	28.28	283.23	1.200	* 0.000	5.00	14.002	16.80	760.4	0.0	593.2
70.00	Appertunance(s)	1.00	0.89	26.263	28.89	276.71	1.000	* 0.000	5.00	13.544	13.54	626.0	0.0	573.6
75.00		1.00	0.91	26.786	29.46	269.83	1.000	* 0.000	5.00	13.085	13.08	616.9	0.0	553.9
80.00	Appertunance(s)	1.00	0.92	27.285	30.01	262.61	1.000	* 0.000	5.00	12.626	12.63	606.3	0.0	534.3
80.75	Bot - Section 3	1.00	0.93	27.357	30.09	261.51	1.200	* 0.000	0.75	1.851	2.22	106.9	0.0	78.3
84.90	Top - Section 2	1.00	0.94	27.752	30.52	255.25	1.200	* 0.000	4.15	10.256	12.31	601.1	0.0	716.7
85.00		1.00	0.94	27.761	30.53	259.71	1.200	* 0.000	0.10	0.244	0.29	14.3	0.0	6.9
90.00	Appertunance(s)	1.00	0.95	28.219	31.04	251.95	1.200	* 0.000	5.00	11.925	14.31	710.7	0.0	337.7
95.00		1.00	0.97	28.658	31.52	243.95	1.000	0.000	5.00	11.466	11.47	578.3	0.0	324.6
100.00	Appertunance(s)	1.00	0.98	29.081	31.98	235.72	1.000	0.000	5.00	11.007	11.01	563.4	0.0	311.5
105.00		1.00	1.00	29.489	32.43	227.26	1.000	0.000	5.00	10.549	10.55	547.5	0.0	298.4
110.00	Appertunance(s)	1.00	1.01	29.884	32.87	218.61	1.000	0.000	5.00	10.090	10.09	530.7	0.0	285.3
115.00		1.00	1.02	30.266	33.29	209.77	1.000	0.000	5.00	9.632	9.63	513.1	0.0	272.1
120.00	Appertunance(s)	1.00	1.04	30.636	33.69	200.76	1.000	0.000	5.00	9.173	9.17	494.6	0.0	259.0
125.00		1.00	1.05	30.995	34.09	191.58	1.000	0.000	5.00	8.714	8.71	475.4	0.0	245.9
125.80	Top - Section 3	1.00	1.05	31.052	34.15	190.09	1.000	0.000	0.80	1.353	1.35	73.9	0.0	38.2
130.00		1.00	1.06	31.345	34.47	101.70	0.600	* 0.000	4.20	3.762	2.26	124.5	0.0	157.2
131.00	Appertunance(s)	1.00	1.06	31.413	34.55	101.81	0.600	* 0.000	1.00	0.896	0.54	29.7	0.0	37.4
135.00		1.00	1.07	31.684	34.85	102.25	0.600	* 0.000	4.00	3.583	2.15	119.9	0.0	149.7
136.00	Appertunance(s)	1.00	1.07	31.751	34.92	102.35	0.600	* 0.000	1.00	0.896	0.54	30.0	0.0	37.4
140.00		1.00	1.08	32.015	35.21	102.78	0.600	0.000	4.00	3.583	2.15	121.1	0.0	149.7
142.00		1.00	1.09	32.145	35.36	102.99	0.600	0.000	2.00	1.792	1.08	60.8	0.0	74.9
* = Cf Adjusted By Linear Load Ra Effect								Totals:	142.00			16,436.1	0.0	20,074.5

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM
 Page: 14

Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 25 Iterations

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

Dead Load Factor : 0.90

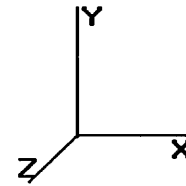
Wind Load Factor : 1.60

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)
70.00	PCTEL GPS-TMG-HR-	1	26.263	28.890	1.00	1.00	0.09	0.000	0.000	4.16	0.00	0.00	0.54
70.00	Stand-Off	1	26.263	28.890	1.00	1.00	1.00	0.000	0.000	46.22	0.00	0.00	27.00
80.00	Diamond X50A	2	27.285	30.013	1.00	1.00	2.24	0.000	0.000	107.57	0.00	0.00	4.14
80.00	Stand-Offs	2	27.285	30.013	1.00	1.00	6.00	0.000	0.000	288.13	0.00	0.00	90.00
90.00	Flat Platform w/ Han	1	28.219	31.040	0.90	1.00	38.16	0.000	0.000	1,895.20	0.00	0.00	1,800.00
90.00	RFS ATMAA1412D-	4	28.219	31.040	0.50	0.75	1.50	0.000	0.000	74.50	0.00	0.00	46.80
90.00	Ericsson AIR 21, 1.3	4	28.219	31.040	0.71	0.75	12.89	0.000	0.000	640.00	0.00	0.00	298.80
90.00	Ericsson AIR 21, 1.3	3	28.219	31.040	0.70	0.75	9.59	0.000	0.000	476.37	0.00	0.00	220.05
100.0	Flat Platform w/ Han	1	29.081	31.989	0.90	1.00	38.16	0.000	0.000	1,953.11	0.00	0.00	1,800.00
100.0	Rymsa MGD3-800TX	3	29.081	31.989	0.82	0.75	6.16	0.000	0.000	315.40	0.00	0.00	41.58
100.0	Allgon P65-16-XL-2	3	29.081	31.989	0.75	0.75	13.72	0.000	0.000	702.19	0.00	0.00	89.10
100.0	RFS FD9R6004/1C-3L	6	29.081	31.989	0.50	0.75	0.83	0.000	0.000	42.61	0.00	0.00	16.74
100.0	Alcatel-Lucent RRH2x	3	29.081	31.989	0.50	0.75	2.43	0.000	0.000	124.37	0.00	0.00	118.80
100.0	RFS DB-T1-6Z-8AB-0Z	1	29.081	31.989	1.00	0.75	3.60	0.000	0.000	184.26	0.00	0.00	39.60
100.0	Antel BXA-70080/6CF	3	29.081	31.989	0.88	0.75	11.56	0.000	0.000	591.83	0.00	0.00	48.60
100.0	Antel BXA-171063/12C	3	29.081	31.989	0.72	0.75	7.76	0.000	0.000	397.16	0.00	0.00	40.50
100.0	GPS	1	29.081	31.989	0.50	0.75	0.38	0.000	0.000	19.19	0.00	0.00	9.00
110.0	Flat Platform w/ Han	1	29.884	32.872	0.90	1.00	38.16	0.000	0.000	2,007.03	0.00	0.00	1,800.00
110.0	72" x 12" Panel	3	29.884	32.872	0.67	0.75	12.26	0.000	0.000	644.61	0.00	0.00	121.50
110.0	48" x 12" Panel	9	29.884	32.872	0.66	0.75	22.59	0.000	0.000	1,187.96	0.00	0.00	243.00
120.0	Flat Platform w/ Han	1	30.636	33.699	1.00	1.00	42.40	0.000	0.000	2,286.17	0.00	0.00	1,800.00
120.0	NextNet BTS-2500	3	30.636	33.699	0.50	0.75	2.05	0.000	0.000	110.40	0.00	0.00	94.50
120.0	DragonWave A-ANT-	2	30.636	33.699	0.90	0.75	6.33	0.000	0.000	341.39	0.00	0.00	48.78
120.0	DragonWave Horizon	2	30.636	33.699	0.50	0.75	0.32	0.000	0.000	17.39	0.00	0.00	19.08
120.0	Argus LLPX310R	3	30.636	33.699	0.73	0.75	7.05	0.000	0.000	379.93	0.00	0.00	77.22
120.0	RFS APXVSPP18-C-	3	30.636	33.699	0.69	0.75	12.45	0.000	0.000	671.35	0.00	0.00	153.90
120.0	Alcatel-Lucent 1900	3	30.636	33.699	0.50	0.75	2.61	0.000	0.000	140.73	0.00	0.00	162.00
120.0	Alcatel-Lucent 800 M	3	30.636	33.699	0.50	0.75	2.32	0.000	0.000	124.96	0.00	0.00	172.80
120.0	Alcatel-Lucent TD-RR	3	30.636	33.699	0.50	0.75	4.56	0.000	0.000	245.67	0.00	0.00	189.00
120.0	RFS APXV9TM14-ALU-	3	30.636	33.699	0.78	0.75	11.13	0.000	0.000	599.94	0.00	0.00	148.77
131.0	Flat Platform w/ Han	1	31.413	34.555	1.00	1.00	42.40	0.000	0.000	2,344.18	0.00	0.00	1,800.00
131.0	Powerwave 7770	6	31.413	34.555	0.65	0.75	16.12	0.000	0.000	891.05	0.00	0.00	189.00
131.0	Powerwave LGP21401	6	31.413	34.555	0.50	0.75	2.48	0.000	0.000	136.84	0.00	0.00	76.14
131.0	Powerwave LGP219nn	6	31.413	34.555	0.50	0.75	0.52	0.000	0.000	28.61	0.00	0.00	29.70
131.0	Powerwave P65-16-	3	31.413	34.555	0.67	0.75	12.26	0.000	0.000	677.60	0.00	0.00	143.10
131.0	Ericsson RRUS 11 (Ba	6	31.413	34.555	0.50	0.75	5.78	0.000	0.000	319.70	0.00	0.00	237.60
131.0	Raycap DC6-48-60-18-	1	31.413	34.555	1.00	0.75	0.96	0.000	0.000	53.08	0.00	0.00	28.62
136.0	Kathrein 742-218 / A	3	32.015	35.217	0.73	0.80	6.75	0.000	4.000	380.07	0.00	1,520.29	60.75
136.0	Generic RCU	3	31.751	34.926	0.50	0.80	0.19	0.000	0.000	10.73	0.00	0.00	2.70
										21,461.66			12,289.41

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:20 AM
 Page: 15

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 25 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

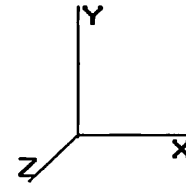
Wind Load Factor : 1.60

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)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.161	1.182	0.00	22.14
5.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	0.36
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.35
5.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	16.42
5.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.22
5.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	4.72
5.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.161	1.182	0.00	51.65
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.161	1.182	0.00	1.35
5.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.161	1.182	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.165	1.194	0.00	22.14
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	0.36
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.35
10.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	16.42
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.22
10.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	4.72
10.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.165	1.194	0.00	51.65
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.165	1.194	0.00	1.35
10.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.165	1.194	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.169	1.206	0.00	22.14
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	0.36
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.35
15.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	16.42
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.22
15.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	4.72
15.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.169	1.206	0.00	51.65
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.169	1.206	0.00	1.35
15.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.169	1.206	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.173	1.219	0.00	22.14
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	0.36
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.35
20.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	16.42
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.22
20.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	4.72
20.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.173	1.219	0.00	51.65
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.173	1.219	0.00	1.35
20.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.173	1.219	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.178	1.233	0.00	22.14
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	0.36
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.35
25.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	16.42
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.22
25.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	4.72
25.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.178	1.233	0.00	51.65
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.178	1.233	0.00	1.35
25.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.599	0.178	1.233	0.00	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.616	0.183	1.248	0.00	22.14
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	0.36
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.35
30.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	16.42
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.22
30.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	4.72

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:20 AM
 Page: 16

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 0.9D + 1.6W **110.00 mph with No Ice (Reduced DL)** **25 Iterations**

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

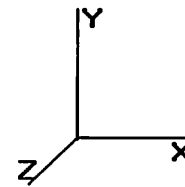
Dead Load Factor : 0.90

Wind Load Factor : 1.60

30.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.616	0.183	1.248	0.00	51.65
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.183	1.248	0.00	1.35
30.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	20.616	0.183	1.248	0.00	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.545	0.188	1.263	0.00	22.14
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	0.36
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.35
35.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	16.42
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.22
35.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	4.72
35.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	21.545	0.188	1.263	0.00	51.65
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.188	1.263	0.00	1.35
35.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	21.545	0.188	1.263	0.00	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.383	0.193	1.279	0.00	22.14
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	0.36
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.35
40.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	16.42
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.22
40.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	4.72
40.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	22.383	0.193	1.279	0.00	51.65
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.193	1.279	0.00	1.35
40.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	22.383	0.193	1.279	0.00	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	0.000	1.98	0.04	0.00	22.421	0.196	1.288	0.00	1.08
40.24	(1) 3/8" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.02
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.07
40.24	(1) 2" Conduit	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.80
40.24	(6) 5/16" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.06
40.24	(1) 1 1/4" Fiber	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.23
40.24	(14) 1 5/8" Coax	Yes	0.24	0.000	3.96	0.08	0.00	22.421	0.196	1.288	0.00	2.52
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	22.421	0.196	1.288	0.00	0.07
40.24	(4) DYWIDAG	Yes	0.24	0.000	1.46	0.03	0.00	22.421	0.196	1.288	0.00	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	0.000	1.98	0.78	0.00	23.149	0.199	1.297	0.00	21.06
45.00	(1) 3/8" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	0.34
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.28
45.00	(1) 2" Conduit	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	15.62
45.00	(6) 5/16" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.16
45.00	(1) 1 1/4" Fiber	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	4.49
45.00	(14) 1 5/8" Coax	Yes	4.76	0.000	3.96	1.57	0.00	23.149	0.199	1.297	0.00	49.14
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	23.149	0.199	1.297	0.00	1.28
45.00	(4) DYWIDAG	Yes	4.76	0.000	1.46	0.58	0.00	23.149	0.199	1.297	0.00	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.200	1.98	0.07	0.08	23.207	0.202	0.000	3.23	1.77
45.40	(1) 3/8" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.03
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.11
45.40	(1) 2" Conduit	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	1.31
45.40	(6) 5/16" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.10
45.40	(1) 1 1/4" Fiber	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.38
45.40	(14) 1 5/8" Coax	Yes	0.40	1.191	3.96	0.13	0.16	23.207	0.202	0.000	6.42	4.13
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	23.207	0.202	0.000	0.00	0.11
45.40	(4) DYWIDAG	Yes	0.40	1.200	1.46	0.05	0.06	23.207	0.202	0.000	2.38	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.200	1.98	0.76	0.91	23.856	0.201	0.000	38.24	20.37
50.00	(1) 3/8" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	0.33
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.24
50.00	(1) 2" Conduit	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	15.11
50.00	(6) 5/16" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.12
50.00	(1) 1 1/4" Fiber	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	4.35
50.00	(14) 1 5/8" Coax	Yes	4.60	1.175	3.96	1.52	1.78	23.856	0.201	0.000	74.88	47.52
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	23.856	0.201	0.000	0.00	1.24
50.00	(4) DYWIDAG	Yes	4.60	1.200	1.46	0.56	0.67	23.856	0.201	0.000	28.20	0.00

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:20 AM
 Page : 17

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case : 0.9D + 1.6W **110.00 mph with No Ice (Reduced DL)** **25 Iterations**

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

Dead Load Factor : 0.90

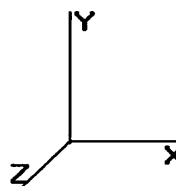
Wind Load Factor : 1.60

55.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	24.515	0.207	0.000	42.71	22.14
55.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	0.36
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.35
55.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	16.42
55.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.22
55.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	4.72
55.00	(14) 1 5/8" Coax	Yes	5.00	1.159	3.96	1.65	1.91	24.515	0.207	0.000	82.51	51.65
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.207	0.000	0.00	1.35
55.00	(4) DYWIDAG	Yes	5.00	1.200	1.46	0.61	0.73	24.515	0.207	0.000	31.50	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.200	1.98	0.11	0.13	24.600	0.210	0.000	5.80	3.00
55.68	(1) 3/8" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.05
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.18
55.68	(1) 2" Conduit	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	2.22
55.68	(6) 5/16" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.16
55.68	(1) 1 1/4" Fiber	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.64
55.68	(14) 1 5/8" Coax	Yes	0.68	1.157	3.96	0.22	0.26	24.600	0.210	0.000	11.19	6.99
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	24.600	0.210	0.000	0.00	0.18
55.68	(4) DYWIDAG	Yes	0.68	1.200	1.46	0.08	0.10	24.600	0.210	0.000	4.28	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.200	1.98	0.71	0.86	25.132	0.214	0.000	37.86	19.14
60.00	(1) 3/8" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	0.31
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.17
60.00	(1) 2" Conduit	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	14.20
60.00	(6) 5/16" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.05
60.00	(1) 1 1/4" Fiber	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	4.09
60.00	(14) 1 5/8" Coax	Yes	4.32	1.145	3.96	1.43	1.63	25.132	0.214	0.000	72.23	44.66
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	25.132	0.214	0.000	0.00	1.17
60.00	(4) DYWIDAG	Yes	4.32	1.200	1.46	0.53	0.63	25.132	0.214	0.000	27.92	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	25.713	0.203	0.000	44.80	22.14
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	0.36
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.35
65.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	16.42
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.22
65.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	4.72
65.00	(14) 1 5/8" Coax	Yes	5.00	1.132	3.96	1.65	1.87	25.713	0.203	0.000	84.50	51.65
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.203	0.000	0.00	1.35
65.00	(4) DYWIDAG	Yes	3.00	1.200	1.46	0.37	0.44	25.713	0.203	0.000	19.82	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.263	0.183	1.248	0.00	22.14
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	0.36
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.35
70.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	16.42
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.22
70.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	4.72
70.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.263	0.183	1.248	0.00	51.65
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.183	1.248	0.00	1.35
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.786	0.189	1.267	0.00	22.14
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	0.36
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.35
75.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	16.42
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.22
75.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	4.72
75.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.786	0.189	1.267	0.00	51.65
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.189	1.267	0.00	1.35
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	27.285	0.196	1.288	0.00	22.14
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	0.36
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.35
80.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	16.42
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.22

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM
 Page : 18

Load Case: 0.9D + 1.6W **110.00 mph with No Ice (Reduced DL)** **25 Iterations**

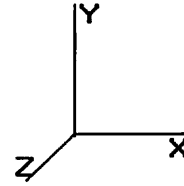
Gust Response Factor : 1.10 **Wind Importance Factor : 1.00**
Dead Load Factor : 0.90
Wind Load Factor : 1.60

80.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	4.72
80.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	27.285	0.196	1.288	0.00	51.65
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.196	1.288	0.00	1.35
80.75	(6) 1 5/8" Coax	Yes	0.75	1.200	1.98	0.12	0.15	27.357	0.200	0.000	7.14	3.31
80.75	(1) 3/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.05
80.75	(2) 1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.20
80.75	(1) 2" Conduit	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	2.46
80.75	(6) 5/16" Coax	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.18
80.75	(1) 1 1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	27.357	0.200	0.000	0.00	0.71
80.75	(14) 1 5/8" Coax	Yes	0.75	1.097	3.96	0.25	0.27	27.357	0.200	0.000	13.05	7.73
84.90	(6) 1 5/8" Coax	Yes	4.15	1.200	1.98	0.68	0.82	27.752	0.204	0.000	40.15	18.38
84.90	(1) 3/8" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	0.30
84.90	(2) 1/2" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	1.12
84.90	(1) 2" Conduit	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	13.64
84.90	(6) 5/16" Coax	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	1.01
84.90	(1) 1 1/4" Fiber	Yes	4.15	0.000	0.00	0.00	0.00	27.752	0.204	0.000	0.00	3.92
84.90	(14) 1 5/8" Coax	Yes	4.15	1.089	3.96	1.37	1.49	27.752	0.204	0.000	72.88	42.88
85.00	(6) 1 5/8" Coax	Yes	0.10	1.200	1.98	0.02	0.02	27.761	0.204	0.000	0.97	0.44
85.00	(1) 3/8" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.01
85.00	(2) 1/2" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.03
85.00	(1) 2" Conduit	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.33
85.00	(6) 5/16" Coax	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.02
85.00	(1) 1 1/4" Fiber	Yes	0.10	0.000	0.00	0.00	0.00	27.761	0.204	0.000	0.00	0.09
85.00	(14) 1 5/8" Coax	Yes	0.10	1.089	3.96	0.03	0.04	27.761	0.204	0.000	1.76	1.04
90.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	28.219	0.208	0.000	49.17	22.14
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	0.36
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	1.35
90.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	16.42
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	1.22
90.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	28.219	0.208	0.000	0.00	4.72
90.00	(14) 1 5/8" Coax	Yes	5.00	1.080	3.96	1.65	1.78	28.219	0.208	0.000	88.52	51.65
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	28.658	0.072	0.000	0.00	22.14
95.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	0.36
95.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	1.35
95.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	16.42
95.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	28.658	0.072	0.000	0.00	1.22
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.081	0.075	0.000	0.00	22.14
100.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	0.36
100.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	1.35
100.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	16.42
100.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.081	0.075	0.000	0.00	1.22
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.489	0.078	0.000	0.00	22.14
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	0.36
105.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	1.35
105.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	16.42
105.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.489	0.078	0.000	0.00	1.22
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	29.884	0.082	0.000	0.00	22.14
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	0.36
110.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	1.35
110.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	16.42
110.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	29.884	0.082	0.000	0.00	1.22
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.266	0.086	0.000	0.00	22.14
115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	0.36
115.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	1.35
115.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	16.42
115.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.266	0.086	0.000	0.00	1.22
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.636	0.090	0.000	0.00	22.14

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM
 Page: 19

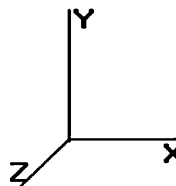
Load Case: 0.9D + 1.6W	110.00 mph with No Ice (Reduced DL)	25 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 0.90		
Wind Load Factor : 1.60		

120.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	0.36
120.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	1.35
120.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	16.42
120.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.636	0.090	0.000	0.00	1.22
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	30.995	0.095	0.000	0.00	22.14
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	30.995	0.095	0.000	0.00	0.36
125.8	(6) 1 5/8" Coax	Yes	0.80	0.000	1.98	0.13	0.00	31.052	0.098	0.000	0.00	3.54
125.8	(1) 3/8" Coax	Yes	0.80	0.000	0.00	0.00	0.00	31.052	0.098	0.000	0.00	0.06
130.0	(6) 1 5/8" Coax	Yes	4.20	0.000	1.98	0.69	0.00	31.345	0.184	1.253	0.00	18.59
130.0	(1) 3/8" Coax	Yes	4.20	0.000	0.00	0.00	0.00	31.345	0.184	1.253	0.00	0.30
131.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	31.413	0.184	1.253	0.00	4.43
131.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.413	0.184	1.253	0.00	0.07
135.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	31.684	0.184	1.253	0.00	17.71
135.0	(1) 3/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	31.684	0.184	1.253	0.00	0.29
136.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	31.751	0.184	1.253	0.00	4.43
136.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	31.751	0.184	1.253	0.00	0.07
										Totals:	892.14	2,104.10

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM

Page: 20

Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 25 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

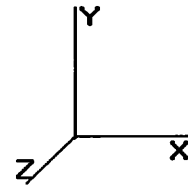
Applied Segment Forces Summary

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
5.00	695.43	1,567.14	0.00	0.00
10.00	678.81	1,544.21	0.00	0.00
15.00	662.18	1,521.28	0.00	0.00
20.00	645.55	1,498.34	0.00	0.00
25.00	628.93	1,475.41	0.00	0.00
30.00	612.82	1,452.47	0.00	0.00
35.00	623.02	1,429.54	0.00	0.00
40.00	629.18	1,406.60	0.00	0.00
40.24	30.25	67.96	0.00	0.00
45.00	613.34	1,954.39	0.00	0.00
45.40	73.15	162.56	0.00	0.00
50.00	853.31	1,167.29	0.00	0.00
55.00	929.17	1,249.90	0.00	0.00
55.68	124.40	167.72	0.00	0.00
60.00	800.21	773.74	0.00	0.00
65.00	909.53	876.58	0.00	0.00
70.00	676.41	884.46	0.00	0.00
75.00	616.87	836.59	0.00	0.00
80.00	1,002.02	911.07	0.00	0.00
80.75	127.11	120.40	0.00	0.00
84.90	714.17	950.25	0.00	0.00
85.00	17.06	12.57	0.00	0.00
90.00	3,934.44	2,984.64	0.00	0.00
95.00	578.32	549.50	0.00	0.00
100.0	4,893.52	2,740.32	0.00	0.00
105.0	547.49	473.17	0.00	0.00
110.0	4,370.30	2,624.56	0.00	0.00
115.0	513.05	402.68	0.00	0.00
120.0	5,412.53	3,255.63	0.00	0.00
125.0	475.38	339.48	0.00	0.00
125.8	73.92	53.13	0.00	0.00
130.0	124.52	235.76	0.00	0.00
131.0	4,480.77	2,560.30	0.00	0.00
135.0	119.89	167.73	0.00	0.00
136.0	420.84	105.38	0.00	1,520.29
140.0	121.15	149.73	0.00	0.00
142.0	60.82	74.86	0.00	0.00
Totals:	38,789.87	38,747.36	0.00	1,520.29

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM
 Page: 21

Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 25 Iterations

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

Dead Load Factor : 0.90

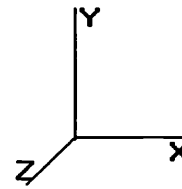
Wind Load Factor : 1.60

Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-38.67	-38.87	0.00	-3,623.95	0.00	3,623.95	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.656
5.00	-36.95	-38.31	0.00	-3,429.62	0.00	3,429.62	4,285.51	2,142.75	7,679.11	3,792.42	0.12	-0.22	0.640
10.00	-35.27	-37.76	0.00	-3,238.06	0.00	3,238.06	4,218.97	2,109.49	7,373.27	3,641.38	0.47	-0.45	0.623
15.00	-33.61	-37.22	0.00	-3,049.24	0.00	3,049.24	4,150.52	2,075.26	7,070.06	3,491.64	1.06	-0.67	0.605
20.00	-31.97	-36.68	0.00	-2,863.15	0.00	2,863.15	4,080.16	2,040.08	6,769.73	3,343.32	1.89	-0.90	0.587
25.00	-30.36	-36.15	0.00	-2,679.75	0.00	2,679.75	4,007.88	2,003.94	6,472.54	3,196.54	2.96	-1.13	0.568
30.00	-28.78	-35.62	0.00	-2,499.02	0.00	2,499.02	3,933.69	1,966.85	6,178.73	3,051.44	4.26	-1.35	0.549
35.00	-27.23	-35.06	0.00	-2,320.94	0.00	2,320.94	3,854.52	1,927.26	5,883.88	2,905.83	5.80	-1.58	0.528
40.00	-25.77	-34.45	0.00	-2,145.61	0.00	2,145.61	3,744.12	1,872.06	5,549.75	2,740.81	7.58	-1.81	0.511
40.24	-25.64	-34.47	0.00	-2,137.22	0.00	2,137.22	3,738.74	1,869.37	5,533.72	2,732.90	7.67	-1.82	0.510
45.00	-23.64	-33.83	0.00	-1,973.29	0.00	1,973.29	3,633.72	1,816.86	5,225.39	2,580.62	9.59	-2.03	0.485
45.40	-23.41	-33.80	0.00	-1,959.76	0.00	1,959.76	3,063.79	1,531.89	4,506.32	2,225.50	9.76	-2.05	0.541
50.00	-22.15	-32.99	0.00	-1,804.27	0.00	1,804.27	3,008.67	1,504.34	4,302.82	2,125.00	11.84	-2.25	0.514
55.00	-20.87	-32.05	0.00	-1,639.34	0.00	1,639.34	2,946.93	1,473.46	4,084.17	2,017.02	14.32	-2.48	0.483
55.68	-20.65	-31.96	0.00	-1,617.64	0.00	1,617.64	2,938.42	1,469.21	4,054.78	2,002.51	14.67	-2.51	0.479
55.68	-20.65	-31.96	0.00	-1,617.64	0.00	1,617.64	2,938.42	1,469.21	4,054.78	2,002.51	14.67	-2.51	0.815
60.00	-19.76	-31.23	0.00	-1,479.46	0.00	1,479.46	2,883.27	1,441.64	3,868.42	1,910.47	17.04	-2.70	0.782
65.00	-18.73	-30.40	0.00	-1,323.32	0.00	1,323.32	2,808.41	1,404.21	3,643.77	1,799.52	20.07	-3.08	0.743
70.00	-17.70	-29.78	0.00	-1,171.34	0.00	1,171.34	2,713.79	1,356.89	3,400.96	1,679.60	23.48	-3.44	0.704
75.00	-16.72	-29.22	0.00	-1,022.43	0.00	1,022.43	2,619.16	1,309.58	3,166.52	1,563.83	27.28	-3.80	0.661
80.00	-15.79	-28.21	0.00	-876.34	0.00	876.34	2,524.53	1,262.26	2,940.46	1,452.18	31.44	-4.14	0.610
80.75	-15.60	-28.12	0.00	-855.23	0.00	855.23	2,510.36	1,255.18	2,907.34	1,435.82	32.10	-4.20	0.602
84.90	-14.64	-27.37	0.00	-738.51	0.00	738.51	1,500.18	750.09	1,728.96	853.87	35.86	-4.47	0.876
85.00	-14.52	-27.41	0.00	-735.76	0.00	735.76	1,499.54	749.77	1,726.89	852.85	35.96	-4.47	0.874
90.00	-11.70	-23.33	0.00	-598.72	0.00	598.72	1,466.64	733.32	1,624.12	802.09	40.87	-4.90	0.755
95.00	-11.06	-22.77	0.00	-482.10	0.00	482.10	1,431.82	715.91	1,522.23	751.77	46.21	-5.28	0.650
100.00	-8.70	-17.69	0.00	-368.24	0.00	368.24	1,395.09	697.54	1,421.47	702.01	51.93	-5.63	0.531
105.00	-8.21	-17.13	0.00	-279.80	0.00	279.80	1,356.44	678.22	1,322.10	652.93	57.97	-5.92	0.435
110.00	-6.01	-12.53	0.00	-194.13	0.00	194.13	1,315.88	657.94	1,224.36	604.67	64.31	-6.17	0.326
115.00	-5.63	-12.00	0.00	-131.46	0.00	131.46	1,273.40	636.70	1,128.51	557.33	70.87	-6.37	0.241
120.00	-2.99	-6.26	0.00	-71.47	0.00	71.47	1,215.41	607.71	1,023.36	505.40	77.60	-6.51	0.144
125.00	-2.70	-5.75	0.00	-40.17	0.00	40.17	1,152.33	576.16	919.28	454.00	84.45	-6.60	0.091
125.80	-2.66	-5.67	0.00	-35.57	0.00	35.57	1,142.23	571.11	903.13	446.02	85.56	-6.61	0.082
125.80	-2.66	-5.67	0.00	-35.57	0.00	35.57	385.02	192.51	160.54	106.00	85.56	-6.61	0.343
130.00	-2.43	-5.52	0.00	-11.75	0.00	11.75	385.02	192.51	160.54	106.00	91.38	-6.65	0.118
131.00	-0.41	-0.78	0.00	-6.23	0.00	6.23	385.02	192.51	160.54	106.00	92.77	-6.66	0.060
135.00	-0.26	-0.64	0.00	-3.12	0.00	3.12	385.02	192.51	160.54	106.00	98.35	-6.69	0.030
136.00	-0.20	-0.21	0.00	-0.97	0.00	0.97	385.02	192.51	160.54	106.00	99.75	-6.70	0.010
140.00	-0.07	-0.07	0.00	-0.14	0.00	0.14	385.02	192.51	160.54	106.00	105.35	-6.70	0.001
142.00	0.00	-0.06	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	108.15	-6.70	0.000

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:20 AM
 Page: 22

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 24 Iterations

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

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

Wind Load Factor: 1.00

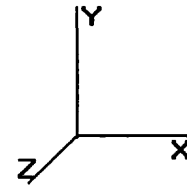
Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.256	4.682	0.000	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.242	5.00	20.217	24.26	113.6	363.4	1,963.8
10.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.331	5.00	19.833	23.80	111.4	381.0	1,950.9
15.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.386	5.00	19.420	23.30	109.1	387.7	1,927.0
20.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.427	5.00	18.995	22.79	106.7	389.6	1,898.3
25.00		1.00	0.70	4.256	4.682	0.000	1.200	* 1.459	5.00	18.563	22.28	104.3	388.6	1,866.7
30.00		1.00	0.70	4.260	4.686	0.000	1.200	* 1.486	5.00	18.127	21.75	101.9	385.8	1,833.3
35.00		1.00	0.73	4.451	4.897	0.000	1.200	* 1.509	5.00	17.688	21.23	103.9	381.6	1,798.5
40.00		1.00	0.76	4.625	5.087	0.000	1.200	* 1.529	5.00	17.246	20.70	105.3	376.4	1,762.7
40.24	Bot - Section 2	1.00	0.76	4.633	5.096	0.000	1.200	* 1.530	0.24	0.829	0.99	5.1	18.3	85.1
45.00		1.00	0.78	4.783	5.261	0.000	1.200	* 1.547	4.76	16.281	19.54	102.8	359.4	2,500.0
45.40	Top - Section 1	1.00	0.78	4.795	5.274	0.000	1.200	* 1.549	0.40	1.350	1.62	8.5	30.2	207.8
50.00		1.00	0.81	4.929	5.422	0.000	1.200	* 1.564	4.60	15.330	18.40	99.7	341.6	1,448.0
55.00		1.00	0.83	5.065	5.572	0.000	1.200	* 1.579	5.00	16.235	19.48	108.5	364.1	1,541.5
55.68	Reinf. Top	1.00	0.83	5.083	5.591	0.000	1.200	* 1.581	0.68	2.163	2.60	14.5	49.2	206.6
60.00		1.00	0.85	5.193	5.712	0.000	1.200	* 1.592	4.32	13.623	16.35	93.4	308.2	1,013.2
65.00		1.00	0.87	5.313	5.844	0.000	1.200	* 1.605	5.00	15.340	18.41	107.6	348.3	1,139.3
70.00	Appertunance(s)	1.00	0.89	5.426	5.969	0.000	1.200	* 1.617	5.00	14.891	17.87	106.7	339.9	1,104.7
75.00		1.00	0.91	5.534	6.088	0.000	1.200	* 1.628	5.00	14.442	17.33	105.5	331.2	1,069.7
80.00	Appertunance(s)	1.00	0.92	5.637	6.201	0.000	1.200	* 1.639	5.00	13.992	16.79	104.1	322.1	1,034.5
80.75	Bot - Section 3	1.00	0.93	5.652	6.218	0.000	1.200	* 1.640	0.75	2.055	2.47	15.3	48.0	152.4
84.90	Top - Section 2	1.00	0.94	5.734	6.307	0.000	1.200	* 1.649	4.15	11.397	13.68	86.3	264.3	1,219.9
85.00		1.00	0.94	5.736	6.309	0.000	1.200	* 1.649	0.10	0.272	0.33	2.1	6.4	15.6
90.00	Appertunance(s)	1.00	0.95	5.830	6.413	0.000	1.200	* 1.658	5.00	13.307	15.97	102.4	308.7	758.9
95.00		1.00	0.97	5.921	6.513	0.000	1.200	* 1.667	5.00	12.856	15.43	100.5	298.9	731.7
100.00	Appertunance(s)	1.00	0.98	6.008	6.609	0.000	1.200	* 1.676	5.00	12.404	14.88	98.4	289.0	704.3
105.00		1.00	1.00	6.093	6.702	0.000	1.200	* 1.684	5.00	11.952	14.34	96.1	278.9	676.7
110.00	Appertunance(s)	1.00	1.01	6.174	6.792	0.000	1.200	* 1.692	5.00	11.500	13.80	93.7	268.6	649.0
115.00		1.00	1.02	6.253	6.879	0.000	1.200	* 1.699	5.00	11.048	13.26	91.2	258.2	621.1
120.00	Appertunance(s)	1.00	1.04	6.330	6.963	0.000	1.200	* 1.707	5.00	10.595	12.71	88.5	247.6	593.0
125.00		1.00	1.05	6.404	7.044	0.000	1.200	* 1.714	5.00	10.142	12.17	85.7	236.9	564.8
125.80	Top - Section 3	1.00	1.05	6.416	7.057	0.000	1.200	* 1.715	0.80	1.581	1.90	13.4	37.6	88.5
130.00		1.00	1.06	6.476	7.124	0.000	1.200	* 1.720	4.20	4.966	5.96	42.5	110.0	319.6
131.00	Appertunance(s)	1.00	1.06	6.490	7.139	0.000	1.200	* 1.722	1.00	1.183	1.42	10.1	26.2	76.1
135.00		1.00	1.07	6.546	7.201	0.000	1.200	* 1.727	4.00	4.735	5.68	40.9	105.2	304.9
136.00	Appertunance(s)	1.00	1.07	6.560	7.216	0.000	1.200	* 1.728	1.00	1.184	1.42	10.3	26.3	76.2
140.00		1.00	1.08	6.615	7.276	0.000	1.200	* 1.733	4.00	4.739	5.69	41.4	105.7	305.3
142.00		1.00	1.09	6.642	7.306	0.000	1.200	* 1.736	2.00	2.370	2.84	20.8	52.9	152.7
* = Cf Adjusted By Linear Load Ra Effect								Totals:	142.00			2,752.2	8,836.1	34,362.3

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM
 Page: 23

Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 24 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

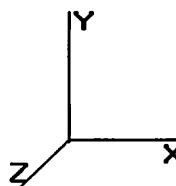
Discrete Appurtenance Segment Forces (Factored)

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)
70.00	PCTEL GPS-TMG-HR-	1	5.426	5.969	1.00	1.00	0.26	0.000	0.000	1.54	0.00	0.00	10.11
70.00	Stand-Off	1	5.426	5.969	1.00	1.00	1.49	0.000	0.000	8.86	0.00	0.00	29.58
80.00	Diamond X50A	2	5.637	6.201	1.00	1.00	4.86	0.000	0.000	30.15	0.00	0.00	115.34
80.00	Stand-Offs	2	5.637	6.201	1.00	1.00	8.95	0.000	0.000	55.50	0.00	0.00	265.89
90.00	Flat Platform w/ Han	1	5.830	6.413	0.90	1.00	56.13	0.000	0.000	359.99	0.00	0.00	3,303.16
90.00	RFS ATMAA1412D-	4	5.830	6.413	0.50	0.75	2.11	0.000	0.000	13.55	0.00	0.00	193.63
90.00	Ericsson AIR 21, 1.3	4	5.830	6.413	0.71	0.75	15.10	0.000	0.000	96.85	0.00	0.00	1,034.70
90.00	Ericsson AIR 21, 1.3	3	5.830	6.413	0.70	0.75	11.24	0.000	0.000	72.07	0.00	0.00	770.49
100.0	Flat Platform w/ Han	1	6.008	6.609	0.90	1.00	56.32	0.000	0.000	372.25	0.00	0.00	3,317.50
100.0	Rymasa MGD3-800TX	3	6.008	6.609	0.82	0.75	7.82	0.000	0.000	51.67	0.00	0.00	303.27
100.0	Allgon P65-16-XL-2	3	6.008	6.609	0.75	0.75	15.82	0.000	0.000	104.55	0.00	0.00	638.08
100.0	RFS FD9R6004/1C-3L	6	6.008	6.609	0.50	0.75	1.28	0.000	0.000	8.46	0.00	0.00	96.35
100.0	Alcatel-Lucent RRH2x	3	6.008	6.609	0.50	0.75	3.12	0.000	0.000	20.64	0.00	0.00	368.03
100.0	RFS DB-T1-6Z-8AB-0Z	1	6.008	6.609	1.00	0.75	4.23	0.000	0.000	27.94	0.00	0.00	184.26
100.0	Antel BXA-70080/6CF	3	6.008	6.609	0.88	0.75	13.93	0.000	0.000	92.04	0.00	0.00	496.30
100.0	Antel BXA-171063/12C	3	6.008	6.609	0.72	0.75	9.62	0.000	0.000	63.56	0.00	0.00	396.25
100.0	GPS	1	6.008	6.609	0.50	0.75	0.35	0.000	0.000	2.28	0.00	0.00	48.47
110.0	Flat Platform w/ Han	1	6.174	6.792	0.90	1.00	56.50	0.000	0.000	383.71	0.00	0.00	3,330.59
110.0	72" x 12" Panel	3	6.174	6.792	0.67	0.75	14.15	0.000	0.000	96.11	0.00	0.00	716.01
110.0	48" x 12" Panel	9	6.174	6.792	0.66	0.75	26.82	0.000	0.000	182.14	0.00	0.00	1,479.51
120.0	Flat Platform w/ Han	1	6.330	6.963	1.00	1.00	62.95	0.000	0.000	438.31	0.00	0.00	3,342.66
120.0	NextNet BTS-2500	3	6.330	6.963	0.50	0.75	2.68	0.000	0.000	18.67	0.00	0.00	294.60
120.0	DragonWave A-ANT-	2	6.330	6.963	0.90	0.75	8.02	0.000	0.000	55.82	0.00	0.00	200.30
120.0	DragonWave Horizon	2	6.330	6.963	0.50	0.75	0.49	0.000	0.000	3.41	0.00	0.00	84.11
120.0	Argus LLPX310R	3	6.330	6.963	0.73	0.75	8.49	0.000	0.000	59.10	0.00	0.00	417.68
120.0	RFS APXVSPP18-C-	3	6.330	6.963	0.69	0.75	14.41	0.000	0.000	100.36	0.00	0.00	788.54
120.0	Alcatel-Lucent 1900	3	6.330	6.963	0.50	0.75	3.35	0.000	0.000	23.32	0.00	0.00	493.83
120.0	Alcatel-Lucent 800 M	3	6.330	6.963	0.50	0.75	2.97	0.000	0.000	20.69	0.00	0.00	495.48
120.0	Alcatel-Lucent TD-RR	3	6.330	6.963	0.50	0.75	6.39	0.000	0.000	44.48	0.00	0.00	442.06
120.0	RFS APXV9TM14-ALU-	3	6.330	6.963	0.78	0.75	12.40	0.000	0.000	86.34	0.00	0.00	665.81
131.0	Flat Platform w/ Han	1	6.490	7.139	1.00	1.00	63.13	0.000	0.000	450.73	0.00	0.00	3,354.92
131.0	Powerwave 7770	6	6.490	7.139	0.65	0.75	19.14	0.000	0.000	136.67	0.00	0.00	1,049.16
131.0	Powerwave LGP21401	6	6.490	7.139	0.50	0.75	3.50	0.000	0.000	25.01	0.00	0.00	299.65
131.0	Powerwave LGP219nn	6	6.490	7.139	0.50	0.75	0.96	0.000	0.000	6.83	0.00	0.00	113.67
131.0	Powerwave P65-16-	3	6.490	7.139	0.67	0.75	14.19	0.000	0.000	101.28	0.00	0.00	756.51
131.0	Ericsson RRUS 11 (Ba	6	6.490	7.139	0.50	0.75	7.21	0.000	0.000	51.48	0.00	0.00	796.92
131.0	Raycap DC6-48-60-18-	1	6.490	7.139	1.00	0.75	2.13	0.000	0.000	15.23	0.00	0.00	129.58
136.0	Kathrein 742-218 / A	3	6.615	7.276	0.73	0.80	8.34	0.000	4.000	60.71	0.00	242.86	345.16
136.0	Generic RCU	3	6.560	7.216	0.50	0.80	0.43	0.000	0.000	3.11	0.00	0.00	33.65
										3,745.42			31,201.80

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM
 Page: 24

Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 24 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

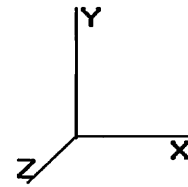
Linear Appurtenance Segment Forces (Factored)

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)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	1.86	0.00	4.256	0.161	1.182	0.00	106.14
5.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	12.11
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	17.64
5.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	45.18
5.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	20.42
5.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	22.41
5.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.69	0.00	4.256	0.161	1.182	0.00	235.09
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.161	1.182	0.00	17.64
5.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.64	0.00	4.256	0.161	1.182	0.00	68.16
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	1.93	0.00	4.256	0.165	1.194	0.00	111.66
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	13.66
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	19.48
10.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	47.41
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	22.48
10.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	24.25
10.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.76	0.00	4.256	0.165	1.194	0.00	246.10
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.165	1.194	0.00	19.48
10.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.72	0.00	4.256	0.165	1.194	0.00	73.03
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	1.98	0.00	4.256	0.169	1.206	0.00	115.12
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	14.67
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	20.66
15.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	48.83
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	23.80
15.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	25.43
15.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.81	0.00	4.256	0.169	1.206	0.00	252.95
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.169	1.206	0.00	20.66
15.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.76	0.00	4.256	0.169	1.206	0.00	76.08
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.01	0.00	4.256	0.173	1.219	0.00	117.68
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	15.44
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	21.56
20.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	49.90
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	24.79
20.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	26.32
20.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.84	0.00	4.256	0.173	1.219	0.00	258.01
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.173	1.219	0.00	21.56
20.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.80	0.00	4.256	0.173	1.219	0.00	78.35
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.04	0.00	4.256	0.178	1.233	0.00	119.74
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	16.06
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	22.28
25.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	50.77
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	25.59
25.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	27.05
25.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.87	0.00	4.256	0.178	1.233	0.00	262.05
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.256	0.178	1.233	0.00	22.28
25.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.82	0.00	4.256	0.178	1.233	0.00	80.17
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.06	0.00	4.260	0.183	1.248	0.00	121.46
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	16.59
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	22.90
30.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	51.50
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	26.27
30.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	27.66

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM
 Page : 25

Load Case : 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 24 Iterations

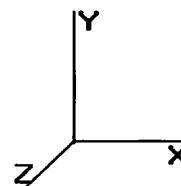
Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20 Ice Importance Factor : 1.00
 Wind Load Factor : 1.00

30.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.89	0.00	4.260	0.183	1.248	0.00	265.43
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.260	0.183	1.248	0.00	22.90
30.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.85	0.00	4.260	0.183	1.248	0.00	81.70
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.08	0.00	4.451	0.188	1.263	0.00	122.95
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	17.05
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	23.43
35.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	52.14
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	26.87
35.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	28.19
35.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.91	0.00	4.451	0.188	1.263	0.00	268.34
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.451	0.188	1.263	0.00	23.43
35.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.87	0.00	4.451	0.188	1.263	0.00	83.02
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.10	0.00	4.625	0.193	1.279	0.00	124.26
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	17.46
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	23.91
40.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	52.70
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	27.39
40.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	28.67
40.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.92	0.00	4.625	0.193	1.279	0.00	270.90
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	4.625	0.193	1.279	0.00	23.91
40.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	1.88	0.00	4.625	0.193	1.279	0.00	84.18
40.24	(6) 1 5/8" Coax	Yes	0.24	0.000	1.98	0.10	0.00	4.633	0.196	1.288	0.00	6.06
40.24	(1) 3/8" Coax	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	0.85
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	1.17
40.24	(1) 2" Conduit	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	2.57
40.24	(6) 5/16" Coax	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	1.34
40.24	(1) 1 1/4" Fiber	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	1.40
40.24	(14) 1 5/8" Coax	Yes	0.24	0.000	3.96	0.14	0.00	4.633	0.196	1.288	0.00	13.21
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	4.633	0.196	1.288	0.00	1.17
40.24	(4) DYWIDAG	Yes	0.24	0.000	1.46	0.09	0.00	4.633	0.196	1.288	0.00	4.10
45.00	(6) 1 5/8" Coax	Yes	4.76	0.000	1.98	2.01	0.00	4.783	0.199	1.297	0.00	119.33
45.00	(1) 3/8" Coax	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	16.96
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	23.15
45.00	(1) 2" Conduit	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	50.62
45.00	(6) 5/16" Coax	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	26.51
45.00	(1) 1 1/4" Fiber	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	27.68
45.00	(14) 1 5/8" Coax	Yes	4.76	0.000	3.96	2.80	0.00	4.783	0.199	1.297	0.00	259.88
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	4.783	0.199	1.297	0.00	23.15
45.00	(4) DYWIDAG	Yes	4.76	0.000	1.46	1.81	0.00	4.783	0.199	1.297	0.00	81.07
45.40	(6) 1 5/8" Coax	Yes	0.40	1.200	1.98	0.17	0.20	4.795	0.202	0.000	1.07	10.04
45.40	(1) 3/8" Coax	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	1.43
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	1.95
45.40	(1) 2" Conduit	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	4.26
45.40	(6) 5/16" Coax	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	2.23
45.40	(1) 1 1/4" Fiber	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	2.33
45.40	(14) 1 5/8" Coax	Yes	0.40	1.200	3.96	0.24	0.28	4.795	0.202	0.000	1.49	21.86
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	4.795	0.202	0.000	0.00	1.95
45.40	(4) DYWIDAG	Yes	0.40	1.200	1.46	0.15	0.18	4.795	0.202	0.000	0.96	6.82
50.00	(6) 1 5/8" Coax	Yes	4.60	1.200	1.98	1.96	2.35	4.929	0.201	0.000	12.74	116.39
50.00	(1) 3/8" Coax	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	16.72
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	22.75
50.00	(1) 2" Conduit	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	49.38
50.00	(6) 5/16" Coax	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	26.03
50.00	(1) 1 1/4" Fiber	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	27.13
50.00	(14) 1 5/8" Coax	Yes	4.60	1.200	3.96	2.72	3.26	4.929	0.201	0.000	17.68	253.25
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	4.929	0.201	0.000	0.00	22.75
50.00	(4) DYWIDAG	Yes	4.60	1.200	1.46	1.76	2.11	4.929	0.201	0.000	11.44	79.28

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:20 AM
 Page : 26

Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 24 Iterations

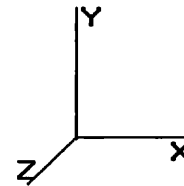
Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20 Ice Importance Factor : 1.00
 Wind Load Factor : 1.00

55.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.14	2.57	5.065	0.207	0.000	14.31	127.49
55.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	18.48
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	25.09
55.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	54.10
55.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	28.69
55.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	29.85
55.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	2.97	3.56	5.065	0.207	0.000	19.83	277.17
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.207	0.000	0.00	25.09
55.00	(4) DYWIDAG	Yes	5.00	1.200	1.46	1.92	2.31	5.065	0.207	0.000	12.86	87.05
55.68	(6) 1 5/8" Coax	Yes	0.68	1.200	1.98	0.29	0.35	5.083	0.210	0.000	1.95	17.28
55.68	(1) 3/8" Coax	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	2.51
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	3.40
55.68	(1) 2" Conduit	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	7.33
55.68	(6) 5/16" Coax	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	3.89
55.68	(1) 1 1/4" Fiber	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	4.05
55.68	(14) 1 5/8" Coax	Yes	0.68	1.200	3.96	0.40	0.48	5.083	0.210	0.000	2.70	37.56
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	5.083	0.210	0.000	0.00	3.40
55.68	(4) DYWIDAG	Yes	0.68	1.200	1.46	0.26	0.31	5.083	0.210	0.000	1.75	11.80
60.00	(6) 1 5/8" Coax	Yes	4.32	1.200	1.98	1.86	2.23	5.193	0.214	0.000	12.75	111.01
60.00	(1) 3/8" Coax	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	16.23
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	21.98
60.00	(1) 2" Conduit	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	47.11
60.00	(6) 5/16" Coax	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	25.13
60.00	(1) 1 1/4" Fiber	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	26.10
60.00	(14) 1 5/8" Coax	Yes	4.32	1.200	3.96	2.57	3.09	5.193	0.214	0.000	17.64	241.16
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	5.193	0.214	0.000	0.00	21.98
60.00	(4) DYWIDAG	Yes	4.32	1.200	1.46	1.67	2.01	5.193	0.214	0.000	11.47	75.95
65.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.16	2.60	5.313	0.203	0.000	15.17	129.23
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	19.05
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	25.74
65.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	54.86
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	29.41
65.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	30.50
65.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	2.99	3.59	5.313	0.203	0.000	20.95	280.56
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.203	0.000	0.00	25.74
65.00	(4) DYWIDAG	Yes	3.00	1.200	1.46	1.17	1.40	5.313	0.203	0.000	8.19	53.16
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.17	0.00	5.426	0.183	1.248	0.00	130.02
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	19.30
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	26.03
70.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	55.21
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	29.73
70.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	30.79
70.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.00	0.00	5.426	0.183	1.248	0.00	282.08
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.183	1.248	0.00	26.03
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.18	0.00	5.534	0.189	1.267	0.00	130.76
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	19.54
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	26.31
75.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	55.53
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	30.03
75.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	31.06
75.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.01	0.00	5.534	0.189	1.267	0.00	283.51
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.189	1.267	0.00	26.31
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.19	0.00	5.637	0.196	1.288	0.00	131.46
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	19.77
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	26.57
80.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	55.84
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	30.32

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



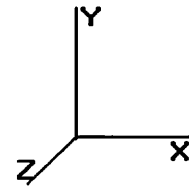
7/17/2014 9:55:20 AM
 Page: 27

Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	24 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	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	31.33
80.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.02	0.00	5.637	0.196	1.288	0.00	284.85
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.196	1.288	0.00	26.57
80.75	(6) 1 5/8" Coax	Yes	0.75	1.200	1.98	0.33	0.39	5.652	0.200	0.000	2.45	19.69
80.75	(1) 3/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	2.96
80.75	(2) 1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	3.98
80.75	(1) 2" Conduit	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	8.37
80.75	(6) 5/16" Coax	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	4.55
80.75	(1) 1 1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	5.652	0.200	0.000	0.00	4.70
80.75	(14) 1 5/8" Coax	Yes	0.75	1.200	3.96	0.45	0.54	5.652	0.200	0.000	3.37	42.67
84.90	(6) 1 5/8" Coax	Yes	4.15	1.200	1.98	1.83	2.19	5.734	0.204	0.000	13.82	109.67
84.90	(1) 3/8" Coax	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	16.59
84.90	(2) 1/2" Coax	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	22.26
84.90	(1) 2" Conduit	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	46.60
84.90	(6) 5/16" Coax	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	25.40
84.90	(1) 1 1/4" Fiber	Yes	4.15	0.000	0.00	0.00	0.00	5.734	0.204	0.000	0.00	26.21
84.90	(14) 1 5/8" Coax	Yes	4.15	1.200	3.96	2.51	3.01	5.734	0.204	0.000	19.00	237.53
85.00	(6) 1 5/8" Coax	Yes	0.10	1.200	1.98	0.04	0.05	5.736	0.204	0.000	0.33	2.65
85.00	(1) 3/8" Coax	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	0.40
85.00	(2) 1/2" Coax	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	0.54
85.00	(1) 2" Conduit	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	1.13
85.00	(6) 5/16" Coax	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	0.61
85.00	(1) 1 1/4" Fiber	Yes	0.10	0.000	0.00	0.00	0.00	5.736	0.204	0.000	0.00	0.63
85.00	(14) 1 5/8" Coax	Yes	0.10	1.200	3.96	0.06	0.07	5.736	0.204	0.000	0.46	5.75
90.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.21	2.65	5.830	0.208	0.000	16.98	132.74
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	20.20
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	27.05
90.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	56.41
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	30.86
90.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	5.830	0.208	0.000	0.00	31.81
90.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.03	3.64	5.830	0.208	0.000	23.33	287.34
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.21	0.00	5.921	0.072	0.000	0.00	133.34
95.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.072	0.000	0.00	20.39
95.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.072	0.000	0.00	27.28
95.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.072	0.000	0.00	56.68
95.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.921	0.072	0.000	0.00	31.10
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.22	0.00	6.008	0.075	0.000	0.00	133.91
100.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.075	0.000	0.00	20.58
100.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.075	0.000	0.00	27.50
100.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.075	0.000	0.00	56.93
100.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.008	0.075	0.000	0.00	31.34
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	6.093	0.078	0.000	0.00	134.46
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.078	0.000	0.00	20.77
105.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.078	0.000	0.00	27.71
105.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.078	0.000	0.00	57.18
105.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.093	0.078	0.000	0.00	31.57
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.23	0.00	6.174	0.082	0.000	0.00	134.98
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.082	0.000	0.00	20.94
110.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.082	0.000	0.00	27.91
110.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.082	0.000	0.00	57.41
110.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.174	0.082	0.000	0.00	31.79
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.24	0.00	6.253	0.086	0.000	0.00	135.49
115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.086	0.000	0.00	21.11
115.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.086	0.000	0.00	28.10
115.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.086	0.000	0.00	57.64
115.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.253	0.086	0.000	0.00	32.00
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.25	0.00	6.330	0.090	0.000	0.00	135.98

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:21 AM
 Page: 28

© 2007 - 2014 by ATC IP LLC. All rights reserved.

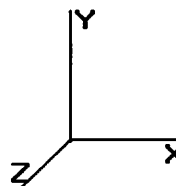
Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 24 Iterations
 Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20 Ice Importance Factor : 1.00
 Wind Load Factor : 1.00

120.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.090	0.000	0.00	21.27
120.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.090	0.000	0.00	28.29
120.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.090	0.000	0.00	57.85
120.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.330	0.090	0.000	0.00	32.21
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.25	0.00	6.404	0.095	0.000	0.00	136.44
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.404	0.095	0.000	0.00	21.43
125.8	(6) 1 5/8" Coax	Yes	0.80	0.000	1.98	0.36	0.00	6.416	0.098	0.000	0.00	21.86
125.8	(1) 3/8" Coax	Yes	0.80	0.000	0.00	0.00	0.00	6.416	0.098	0.000	0.00	3.44
130.0	(6) 1 5/8" Coax	Yes	4.20	0.000	1.98	1.90	0.00	6.476	0.184	1.253	0.00	114.98
130.0	(1) 3/8" Coax	Yes	4.20	0.000	0.00	0.00	0.00	6.476	0.184	1.253	0.00	18.13
131.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.45	0.00	6.490	0.184	1.253	0.00	27.40
131.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.490	0.184	1.253	0.00	4.32
135.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	1.81	0.00	6.546	0.184	1.253	0.00	109.87
135.0	(1) 3/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	6.546	0.184	1.253	0.00	17.39
136.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.45	0.00	6.560	0.184	1.253	0.00	27.48
136.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	6.560	0.184	1.253	0.00	4.35
Totals:										264.68	13,340.26	

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM

Page: 29

Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 24 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

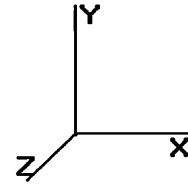
Applied Segment Forces Summary

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
5.00	113.58	2,754.09	0.00	0.00
10.00	111.42	2,773.91	0.00	0.00
15.00	109.10	2,770.69	0.00	0.00
20.00	106.71	2,757.35	0.00	0.00
25.00	104.29	2,738.18	0.00	0.00
30.00	101.92	2,715.17	0.00	0.00
35.00	103.93	2,689.42	0.00	0.00
40.00	105.28	2,661.59	0.00	0.00
40.24	5.07	128.92	0.00	0.00
45.00	102.79	3,361.90	0.00	0.00
45.40	12.07	280.32	0.00	0.00
50.00	141.60	2,287.50	0.00	0.00
55.00	155.54	2,459.99	0.00	0.00
55.68	20.90	331.03	0.00	0.00
60.00	135.24	1,812.09	0.00	0.00
65.00	151.88	2,033.07	0.00	0.00
70.00	117.06	1,989.07	0.00	0.00
75.00	105.50	1,917.38	0.00	0.00
80.00	189.77	2,267.01	0.00	0.00
80.75	21.15	275.93	0.00	0.00
84.90	119.08	1,907.22	0.00	0.00
85.00	2.85	32.25	0.00	0.00
90.00	685.18	6,891.87	0.00	0.00
95.00	100.48	1,245.08	0.00	0.00
100.0	841.77	7,067.67	0.00	0.00
105.0	96.13	1,126.15	0.00	0.00
110.0	755.68	6,625.86	0.00	0.00
115.0	91.19	1,014.12	0.00	0.00
120.0	939.04	8,212.39	0.00	0.00
125.0	85.74	817.40	0.00	0.00
125.8	13.39	128.98	0.00	0.00
130.0	42.45	532.29	0.00	0.00
131.0	797.35	6,627.21	0.00	0.00
135.0	40.91	432.14	0.00	0.00
136.0	74.08	486.89	0.00	242.86
140.0	41.38	305.32	0.00	0.00
142.0	20.78	152.74	0.00	0.00
Totals:	6,762.28	84,610.18	0.00	242.86

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM
 Page: 30

Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 24 Iterations

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

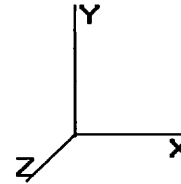
Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-84.61	-6.79	0.00	-673.48	0.00	673.48	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.135
5.00	-81.85	-6.74	0.00	-639.51	0.00	639.51	4,285.51	2,142.75	7,679.11	3,792.42	0.02	-0.04	0.132
10.00	-79.07	-6.68	0.00	-605.82	0.00	605.82	4,218.97	2,109.49	7,373.27	3,641.38	0.09	-0.08	0.129
15.00	-76.29	-6.62	0.00	-572.41	0.00	572.41	4,150.52	2,075.26	7,070.06	3,491.64	0.20	-0.13	0.126
20.00	-73.53	-6.57	0.00	-539.29	0.00	539.29	4,080.16	2,040.08	6,769.73	3,343.32	0.35	-0.17	0.123
25.00	-70.79	-6.51	0.00	-506.46	0.00	506.46	4,007.88	2,003.94	6,472.54	3,196.54	0.55	-0.21	0.119
30.00	-68.07	-6.44	0.00	-473.94	0.00	473.94	3,933.69	1,966.85	6,178.73	3,051.44	0.80	-0.25	0.116
35.00	-65.38	-6.38	0.00	-441.72	0.00	441.72	3,854.52	1,927.26	5,883.88	2,905.83	1.09	-0.30	0.112
40.00	-62.71	-6.28	0.00	-409.85	0.00	409.85	3,744.12	1,872.06	5,549.75	2,740.81	1.42	-0.34	0.109
40.24	-62.58	-6.30	0.00	-408.32	0.00	408.32	3,738.74	1,869.37	5,533.72	2,732.90	1.44	-0.34	0.108
45.00	-59.22	-6.20	0.00	-378.36	0.00	378.36	3,633.72	1,816.86	5,225.39	2,580.62	1.80	-0.38	0.104
45.40	-58.94	-6.20	0.00	-375.88	0.00	375.88	3,063.79	1,531.89	4,506.32	2,225.50	1.83	-0.39	0.116
50.00	-56.65	-6.09	0.00	-347.34	0.00	347.34	3,008.67	1,504.34	4,302.82	2,125.00	2.22	-0.43	0.111
55.00	-54.18	-5.94	0.00	-316.90	0.00	316.90	2,946.93	1,473.46	4,084.17	2,017.02	2.69	-0.47	0.105
55.68	-53.85	-5.93	0.00	-312.89	0.00	312.89	2,938.42	1,469.21	4,054.78	2,002.51	2.76	-0.48	0.104
55.68	-53.85	-5.93	0.00	-312.89	0.00	312.89	2,938.42	1,469.21	4,054.78	2,002.51	2.76	-0.48	0.175
60.00	-52.03	-5.83	0.00	-287.24	0.00	287.24	2,883.27	1,441.64	3,868.42	1,910.47	3.21	-0.51	0.168
65.00	-50.00	-5.72	0.00	-258.08	0.00	258.08	2,808.41	1,404.21	3,643.77	1,799.52	3.79	-0.59	0.161
70.00	-48.00	-5.64	0.00	-229.46	0.00	229.46	2,713.79	1,356.89	3,400.96	1,679.60	4.44	-0.66	0.154
75.00	-46.08	-5.57	0.00	-201.23	0.00	201.23	2,619.16	1,309.58	3,166.52	1,563.83	5.16	-0.73	0.146
80.00	-43.81	-5.38	0.00	-173.38	0.00	173.38	2,524.53	1,262.26	2,940.46	1,452.18	5.96	-0.79	0.137
80.75	-43.53	-5.38	0.00	-169.35	0.00	169.35	2,510.36	1,255.18	2,907.34	1,435.82	6.09	-0.81	0.135
84.90	-41.62	-5.25	0.00	-147.01	0.00	147.01	1,500.18	750.09	1,728.96	853.87	6.81	-0.86	0.200
85.00	-41.59	-5.28	0.00	-146.48	0.00	146.48	1,499.54	749.77	1,726.89	852.85	6.83	-0.86	0.200
90.00	-34.70	-4.54	0.00	-120.07	0.00	120.07	1,466.64	733.32	1,624.12	802.09	7.78	-0.95	0.173
95.00	-33.45	-4.46	0.00	-97.38	0.00	97.38	1,431.82	715.91	1,522.23	751.77	8.81	-1.02	0.153
100.00	-26.40	-3.52	0.00	-75.09	0.00	75.09	1,395.09	697.54	1,421.47	702.01	9.92	-1.09	0.126
105.00	-25.27	-3.42	0.00	-57.50	0.00	57.50	1,356.44	678.22	1,322.10	652.93	11.10	-1.15	0.107
110.00	-18.66	-2.55	0.00	-40.39	0.00	40.39	1,315.88	657.94	1,224.36	604.67	12.34	-1.20	0.081
115.00	-17.65	-2.44	0.00	-27.66	0.00	27.66	1,273.40	636.70	1,128.51	557.33	13.62	-1.25	0.063
120.00	-9.46	-1.33	0.00	-15.44	0.00	15.44	1,215.41	607.71	1,023.36	505.40	14.94	-1.27	0.038
125.00	-8.64	-1.23	0.00	-8.80	0.00	8.80	1,152.33	576.16	919.28	454.00	16.29	-1.29	0.027
125.80	-8.51	-1.21	0.00	-7.81	0.00	7.81	1,142.23	571.11	903.13	446.02	16.50	-1.30	0.025
125.80	-8.51	-1.21	0.00	-7.81	0.00	7.81	385.02	192.51	160.54	106.00	16.50	-1.30	0.096
130.00	-7.98	-1.16	0.00	-2.73	0.00	2.73	385.02	192.51	160.54	106.00	17.65	-1.31	0.047
131.00	-1.37	-0.21	0.00	-1.57	0.00	1.57	385.02	192.51	160.54	106.00	17.92	-1.31	0.018
135.00	-0.94	-0.16	0.00	-0.74	0.00	0.74	385.02	192.51	160.54	106.00	19.02	-1.32	0.009
136.00	-0.46	-0.07	0.00	-0.34	0.00	0.34	385.02	192.51	160.54	106.00	19.30	-1.32	0.004
140.00	-0.15	-0.02	0.00	-0.05	0.00	0.05	385.02	192.51	160.54	106.00	20.41	-1.32	0.001
142.00	0.00	-0.02	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	20.96	-1.32	0.000

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM
 Page: 31

Load Case: 1.0D + 1.0W

60.00 mph Serviceability

23 Iterations

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

Wind Importance Factor : 1.00

Shaft Segment Forces (Factored)

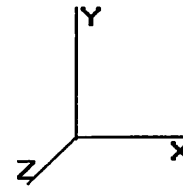
Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Ap (sf)	EPAs (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.742	194.88	1.000	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.742	190.28	1.000	* 0.000	5.00	19.182	19.18	129.3	0.0	1,389.3
10.00		1.00	0.70	6.129	6.742	185.68	1.000	* 0.000	5.00	18.723	18.72	126.2	0.0	1,363.9
15.00		1.00	0.70	6.129	6.742	181.07	1.000	* 0.000	5.00	18.265	18.26	123.1	0.0	1,338.4
20.00		1.00	0.70	6.129	6.742	176.47	1.000	* 0.000	5.00	17.806	17.81	120.0	0.0	1,312.9
25.00		1.00	0.70	6.129	6.742	171.86	1.000	* 0.000	5.00	17.348	17.35	116.9	0.0	1,287.4
30.00		1.00	0.70	6.134	6.747	167.33	1.000	* 0.000	5.00	16.889	16.89	114.0	0.0	1,261.9
35.00		1.00	0.73	6.410	7.051	166.34	1.000	* 0.000	5.00	16.430	16.43	115.9	0.0	1,236.4
40.00		1.00	0.76	6.659	7.325	164.75	1.000	* 0.000	5.00	15.972	15.97	117.0	0.0	1,211.0
40.24	Bot - Section 2	1.00	0.76	6.671	7.338	164.66	1.000	* 0.000	0.24	0.767	0.77	5.6	0.0	58.4
45.00		1.00	0.78	6.887	7.576	162.66	1.000	* 0.000	4.76	15.054	15.05	114.1	0.0	1,836.8
45.40	Top - Section 1	1.00	0.78	6.905	7.595	162.48	1.200	* 0.000	0.40	1.247	1.50	11.4	0.0	152.5
50.00		1.00	0.81	7.098	7.807	163.67	1.200	* 0.000	4.60	14.131	16.96	132.4	0.0	973.2
55.00		1.00	0.83	7.294	8.023	160.89	1.200	* 0.000	5.00	14.919	17.90	143.6	0.0	1,036.8
55.68	Reinf. Top	1.00	0.83	7.319	8.051	160.49	1.200	* 0.000	0.68	1.985	2.38	19.2	0.0	138.7
60.00		1.00	0.85	7.477	8.225	157.82	1.200	* 0.000	4.32	12.476	14.97	123.1	0.0	587.5
65.00		1.00	0.87	7.650	8.415	154.49	1.200	* 0.000	5.00	14.002	16.80	141.4	0.0	659.2
70.00	Appertunance(s)	1.00	0.89	7.814	8.595	150.93	1.000	* 0.000	5.00	13.544	13.54	116.4	0.0	637.3
75.00		1.00	0.91	7.969	8.766	147.18	1.000	* 0.000	5.00	13.085	13.08	114.7	0.0	615.5
80.00	Appertunance(s)	1.00	0.92	8.118	8.930	143.24	1.000	* 0.000	5.00	12.626	12.63	112.7	0.0	593.6
80.75	Bot - Section 3	1.00	0.93	8.139	8.953	142.64	1.200	* 0.000	0.75	1.851	2.22	19.9	0.0	87.0
84.90	Top - Section 2	1.00	0.94	8.257	9.082	139.23	1.200	* 0.000	4.15	10.256	12.31	111.8	0.0	796.3
85.00		1.00	0.94	8.260	9.086	141.66	1.200	* 0.000	0.10	0.244	0.29	2.7	0.0	7.7
90.00	Appertunance(s)	1.00	0.95	8.396	9.235	137.43	1.200	* 0.000	5.00	11.925	14.31	132.2	0.0	375.2
95.00		1.00	0.97	8.526	9.379	133.06	1.000	0.000	5.00	11.466	11.47	107.5	0.0	360.6
100.0	Appertunance(s)	1.00	0.98	8.652	9.517	128.57	1.000	0.000	5.00	11.007	11.01	104.8	0.0	346.1
105.0		1.00	1.00	8.774	9.651	123.96	1.000	0.000	5.00	10.549	10.55	101.8	0.0	331.5
110.0	Appertunance(s)	1.00	1.01	8.891	9.780	119.24	1.000	0.000	5.00	10.090	10.09	98.7	0.0	316.9
115.0		1.00	1.02	9.005	9.905	114.42	1.000	0.000	5.00	9.632	9.63	95.4	0.0	302.4
120.0	Appertunance(s)	1.00	1.04	9.115	10.02	109.50	1.000	0.000	5.00	9.173	9.17	92.0	0.0	287.8
125.0		1.00	1.05	9.222	10.14	104.49	1.000	0.000	5.00	8.714	8.71	88.4	0.0	273.3
125.8	Top - Section 3	1.00	1.05	9.239	10.16	103.68	1.000	0.000	0.80	1.353	1.35	13.7	0.0	42.4
130.0		1.00	1.06	9.326	10.25	55.473	0.692	* 0.000	4.20	3.762	2.60	26.7	0.0	174.7
131.0	Appertunance(s)	1.00	1.06	9.346	10.28	55.534	0.691	* 0.000	1.00	0.896	0.62	6.4	0.0	41.6
135.0		1.00	1.07	9.427	10.36	55.773	0.689	* 0.000	4.00	3.583	2.47	25.6	0.0	166.4
136.0	Appertunance(s)	1.00	1.07	9.447	10.39	55.832	0.688	* 0.000	1.00	0.896	0.62	6.4	0.0	41.6
140.0		1.00	1.08	9.525	10.47	56.064	0.685	0.000	4.00	3.583	2.45	25.7	0.0	166.4
142.0		1.00	1.09	9.564	10.52	56.178	0.684	0.000	2.00	1.792	1.22	12.9	0.0	83.2
								Totals:	142.00			3,069.6	0.0	21,891.7

* = Cf Adjusted By Linear Load Ra Effect

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM
 Page: 32

Load Case: 1.0D + 1.0W 60.00 mph Serviceability 23 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

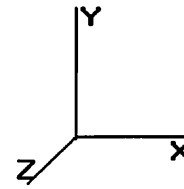
Discrete Appurtenance Segment Forces (Factored)

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)
70.00	PCTEL GPS-TMG-HR-	1	7.814	8.595	1.00	1.00	0.09	0.000	0.000	0.77	0.00	0.00	0.60
70.00	Stand-Off	1	7.814	8.595	1.00	1.00	1.00	0.000	0.000	8.60	0.00	0.00	30.00
80.00	Diamond X50A	2	8.118	8.930	1.00	1.00	2.24	0.000	0.000	20.00	0.00	0.00	4.60
80.00	Stand-Offs	2	8.118	8.930	1.00	1.00	6.00	0.000	0.000	53.58	0.00	0.00	100.00
90.00	Flat Platform w/ Han	1	8.396	9.235	0.90	1.00	38.16	0.000	0.000	352.41	0.00	0.00	2,000.00
90.00	RFS ATMAA1412D-	4	8.396	9.235	0.50	0.75	1.50	0.000	0.000	13.85	0.00	0.00	52.00
90.00	Ericsson AIR 21, 1.3	4	8.396	9.235	0.71	0.75	12.89	0.000	0.000	119.01	0.00	0.00	332.00
90.00	Ericsson AIR 21, 1.3	3	8.396	9.235	0.70	0.75	9.59	0.000	0.000	88.58	0.00	0.00	244.50
100.0	Flat Platform w/ Han	1	8.652	9.517	0.90	1.00	38.16	0.000	0.000	363.18	0.00	0.00	2,000.00
100.0	Rymsa MGD3-800TX	3	8.652	9.517	0.82	0.75	6.16	0.000	0.000	58.65	0.00	0.00	46.20
100.0	Allgon P65-16-XL-2	3	8.652	9.517	0.75	0.75	13.72	0.000	0.000	130.57	0.00	0.00	99.00
100.0	RFS FDR6004/1C-3L	6	8.652	9.517	0.50	0.75	0.83	0.000	0.000	7.92	0.00	0.00	18.60
100.0	Alcatel-Lucent RRH2x	3	8.652	9.517	0.50	0.75	2.43	0.000	0.000	23.13	0.00	0.00	132.00
100.0	RFS DB-T1-6Z-8AB-0Z	1	8.652	9.517	1.00	0.75	3.60	0.000	0.000	34.26	0.00	0.00	44.00
100.0	Antel BXA-70080/6CF	3	8.652	9.517	0.88	0.75	11.56	0.000	0.000	110.05	0.00	0.00	54.00
100.0	Antel BXA-171063/12C	3	8.652	9.517	0.72	0.75	7.76	0.000	0.000	73.85	0.00	0.00	45.00
100.0	GPS	1	8.652	9.517	0.50	0.75	0.38	0.000	0.000	3.57	0.00	0.00	10.00
110.0	Flat Platform w/ Han	1	8.891	9.780	0.90	1.00	38.16	0.000	0.000	373.21	0.00	0.00	2,000.00
110.0	72" x 12" Panel	3	8.891	9.780	0.67	0.75	12.26	0.000	0.000	119.86	0.00	0.00	135.00
110.0	48" x 12" Panel	9	8.891	9.780	0.66	0.75	22.59	0.000	0.000	220.90	0.00	0.00	270.00
120.0	Flat Platform w/ Han	1	9.115	10.026	1.00	1.00	42.40	0.000	0.000	425.11	0.00	0.00	2,000.00
120.0	NextNet BTS-2500	3	9.115	10.026	0.50	0.75	2.05	0.000	0.000	20.53	0.00	0.00	105.00
120.0	DragonWave A-ANT-	2	9.115	10.026	0.90	0.75	6.33	0.000	0.000	63.48	0.00	0.00	54.20
120.0	DragonWave Horizon	2	9.115	10.026	0.50	0.75	0.32	0.000	0.000	3.23	0.00	0.00	21.20
120.0	Argus LLPX310R	3	9.115	10.026	0.73	0.75	7.05	0.000	0.000	70.65	0.00	0.00	85.80
120.0	RFS APXVSP18-C-	3	9.115	10.026	0.69	0.75	12.45	0.000	0.000	124.84	0.00	0.00	171.00
120.0	Alcatel-Lucent 1900	3	9.115	10.026	0.50	0.75	2.61	0.000	0.000	26.17	0.00	0.00	180.00
120.0	Alcatel-Lucent 800 M	3	9.115	10.026	0.50	0.75	2.32	0.000	0.000	23.24	0.00	0.00	192.00
120.0	Alcatel-Lucent TD-RR	3	9.115	10.026	0.50	0.75	4.56	0.000	0.000	45.68	0.00	0.00	210.00
120.0	RFS APXV9TM14-ALU-	3	9.115	10.026	0.78	0.75	11.13	0.000	0.000	111.56	0.00	0.00	165.30
131.0	Flat Platform w/ Han	1	9.346	10.281	1.00	1.00	42.40	0.000	0.000	435.90	0.00	0.00	2,000.00
131.0	Powerwave 7770	6	9.346	10.281	0.65	0.75	16.12	0.000	0.000	165.69	0.00	0.00	210.00
131.0	Powerwave LGP21401	6	9.346	10.281	0.50	0.75	2.48	0.000	0.000	25.44	0.00	0.00	84.60
131.0	Powerwave LGP219nn	6	9.346	10.281	0.50	0.75	0.52	0.000	0.000	5.32	0.00	0.00	33.00
131.0	Powerwave P65-16-	3	9.346	10.281	0.67	0.75	12.26	0.000	0.000	126.00	0.00	0.00	159.00
131.0	Ericsson RRUS 11 (Ba	6	9.346	10.281	0.50	0.75	5.78	0.000	0.000	59.45	0.00	0.00	264.00
131.0	Raycap DC6-48-60-18-	1	9.346	10.281	1.00	0.75	0.96	0.000	0.000	9.87	0.00	0.00	31.80
136.0	Kathrein 742-218 / A	3	9.525	10.478	0.73	0.80	6.75	0.000	4.000	70.67	0.00	282.70	67.50
136.0	Generic RCU	3	9.447	10.391	0.50	0.80	0.19	0.000	0.000	2.00	0.00	0.00	3.00
										3,990.80			13,654.90

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM
 Page: 33

Load Case: 1.0D + 1.0W 60.00 mph Serviceability 23 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.00

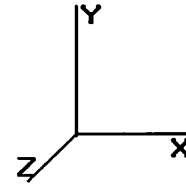
Wind Load Factor : 1.00

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)
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.161	1.182	0.00	24.60
5.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	0.40
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	1.50
5.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	18.25
5.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	1.35
5.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	5.25
5.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.161	1.182	0.00	57.39
5.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.161	1.182	0.00	1.50
5.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.161	1.182	0.00	0.00
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.165	1.194	0.00	24.60
10.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	0.40
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	1.50
10.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	18.25
10.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	1.35
10.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	5.25
10.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.165	1.194	0.00	57.39
10.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.165	1.194	0.00	1.50
10.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.165	1.194	0.00	0.00
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.169	1.206	0.00	24.60
15.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	0.40
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	1.50
15.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	18.25
15.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	1.35
15.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	5.25
15.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.169	1.206	0.00	57.39
15.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.169	1.206	0.00	1.50
15.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.169	1.206	0.00	0.00
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.173	1.219	0.00	24.60
20.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	0.40
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	1.50
20.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	18.25
20.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	1.35
20.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	5.25
20.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.173	1.219	0.00	57.39
20.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.173	1.219	0.00	1.50
20.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.173	1.219	0.00	0.00
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.178	1.233	0.00	24.60
25.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	0.40
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	1.50
25.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	18.25
25.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	1.35
25.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	5.25
25.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.178	1.233	0.00	57.39
25.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.178	1.233	0.00	1.50
25.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.129	0.178	1.233	0.00	0.00
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.134	0.183	1.248	0.00	24.60
30.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	0.40
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	1.50
30.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	18.25
30.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	1.35
30.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	5.25

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:21 AM
 Page: 34

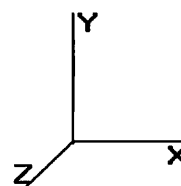
© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 1.0D + 1.0W	60.00 mph Serviceability	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

30.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.134	0.183	1.248	0.00	57.39
30.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.183	1.248	0.00	1.50
30.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.134	0.183	1.248	0.00	0.00
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.410	0.188	1.263	0.00	24.60
35.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	0.40
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	1.50
35.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	18.25
35.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	1.35
35.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	5.25
35.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.410	0.188	1.263	0.00	57.39
35.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.188	1.263	0.00	1.50
35.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.410	0.188	1.263	0.00	0.00
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.659	0.193	1.279	0.00	24.60
40.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	0.40
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	1.50
40.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	18.25
40.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	1.35
40.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	5.25
40.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.659	0.193	1.279	0.00	57.39
40.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.193	1.279	0.00	1.50
40.00	(4) DYWIDAG	Yes	5.00	0.000	1.46	0.61	0.00	6.659	0.193	1.279	0.00	0.00
40.24	(6) 1 5/8" Coax	Yes	0.24	0.000	1.98	0.04	0.00	6.671	0.196	1.288	0.00	1.20
40.24	(1) 3/8" Coax	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.02
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.07
40.24	(1) 2" Conduit	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.89
40.24	(6) 5/16" Coax	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.07
40.24	(1) 1 1/4" Fiber	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.26
40.24	(14) 1 5/8" Coax	Yes	0.24	0.000	3.96	0.08	0.00	6.671	0.196	1.288	0.00	2.80
40.24	(2) 1/2" Coax	Yes	0.24	0.000	0.00	0.00	0.00	6.671	0.196	1.288	0.00	0.07
40.24	(4) DYWIDAG	Yes	0.24	0.000	1.46	0.03	0.00	6.671	0.196	1.288	0.00	0.00
45.00	(6) 1 5/8" Coax	Yes	4.76	0.000	1.98	0.78	0.00	6.887	0.199	1.297	0.00	23.40
45.00	(1) 3/8" Coax	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	0.38
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	1.43
45.00	(1) 2" Conduit	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	17.36
45.00	(6) 5/16" Coax	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	1.28
45.00	(1) 1 1/4" Fiber	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	4.99
45.00	(14) 1 5/8" Coax	Yes	4.76	0.000	3.96	1.57	0.00	6.887	0.199	1.297	0.00	54.60
45.00	(2) 1/2" Coax	Yes	4.76	0.000	0.00	0.00	0.00	6.887	0.199	1.297	0.00	1.43
45.00	(4) DYWIDAG	Yes	4.76	0.000	1.46	0.58	0.00	6.887	0.199	1.297	0.00	0.00
45.40	(6) 1 5/8" Coax	Yes	0.40	1.200	1.98	0.07	0.08	6.905	0.202	0.000	0.60	1.97
45.40	(1) 3/8" Coax	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.03
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.12
45.40	(1) 2" Conduit	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	1.46
45.40	(6) 5/16" Coax	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.11
45.40	(1) 1 1/4" Fiber	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.42
45.40	(14) 1 5/8" Coax	Yes	0.40	1.200	3.96	0.13	0.16	6.905	0.202	0.000	1.20	4.59
45.40	(2) 1/2" Coax	Yes	0.40	0.000	0.00	0.00	0.00	6.905	0.202	0.000	0.00	0.12
45.40	(4) DYWIDAG	Yes	0.40	1.200	1.46	0.05	0.06	6.905	0.202	0.000	0.44	0.00
50.00	(6) 1 5/8" Coax	Yes	4.60	1.200	1.98	0.76	0.91	7.098	0.201	0.000	7.11	22.63
50.00	(1) 3/8" Coax	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	0.37
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	1.38
50.00	(1) 2" Conduit	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	16.79
50.00	(6) 5/16" Coax	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	1.24
50.00	(1) 1 1/4" Fiber	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	4.83
50.00	(14) 1 5/8" Coax	Yes	4.60	1.200	3.96	1.52	1.82	7.098	0.201	0.000	14.22	52.80
50.00	(2) 1/2" Coax	Yes	4.60	0.000	0.00	0.00	0.00	7.098	0.201	0.000	0.00	1.38
50.00	(4) DYWIDAG	Yes	4.60	1.200	1.46	0.56	0.67	7.098	0.201	0.000	5.24	0.00

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:21 AM

Page: 35

© 2007 - 2014 by ATC IP LLC. All rights reserved.

Load Case: 1.0D + 1.0W **60.00 mph Serviceability** **23 Iterations**

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

Dead Load Factor : 1.00

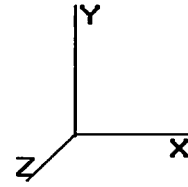
Wind Load Factor : 1.00

55.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	7.294	0.207	0.000	7.94	24.60
55.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	0.40
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	1.50
55.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	18.25
55.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	1.35
55.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	5.25
55.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.294	0.207	0.000	15.89	57.39
55.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.207	0.000	0.00	1.50
55.00	(4) DYWIDAG	Yes	5.00	1.200	1.46	0.61	0.73	7.294	0.207	0.000	5.86	0.00
55.68	(6) 1 5/8" Coax	Yes	0.68	1.200	1.98	0.11	0.13	7.319	0.210	0.000	1.08	3.33
55.68	(1) 3/8" Coax	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.05
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.20
55.68	(1) 2" Conduit	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	2.47
55.68	(6) 5/16" Coax	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.18
55.68	(1) 1 1/4" Fiber	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.71
55.68	(14) 1 5/8" Coax	Yes	0.68	1.200	3.96	0.22	0.27	7.319	0.210	0.000	2.16	7.77
55.68	(2) 1/2" Coax	Yes	0.68	0.000	0.00	0.00	0.00	7.319	0.210	0.000	0.00	0.20
55.68	(4) DYWIDAG	Yes	0.68	1.200	1.46	0.08	0.10	7.319	0.210	0.000	0.80	0.00
60.00	(6) 1 5/8" Coax	Yes	4.32	1.200	1.98	0.71	0.86	7.477	0.214	0.000	7.04	21.27
60.00	(1) 3/8" Coax	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	0.35
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	1.30
60.00	(1) 2" Conduit	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	15.78
60.00	(6) 5/16" Coax	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	1.17
60.00	(1) 1 1/4" Fiber	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	4.54
60.00	(14) 1 5/8" Coax	Yes	4.32	1.200	3.96	1.43	1.71	7.477	0.214	0.000	14.08	49.62
60.00	(2) 1/2" Coax	Yes	4.32	0.000	0.00	0.00	0.00	7.477	0.214	0.000	0.00	1.30
60.00	(4) DYWIDAG	Yes	4.32	1.200	1.46	0.53	0.63	7.477	0.214	0.000	5.19	0.00
65.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	7.650	0.203	0.000	8.33	24.60
65.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	0.40
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	1.50
65.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	18.25
65.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	1.35
65.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	5.25
65.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.650	0.203	0.000	16.66	57.39
65.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.203	0.000	0.00	1.50
65.00	(4) DYWIDAG	Yes	3.00	1.200	1.46	0.37	0.44	7.650	0.203	0.000	3.69	0.00
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.814	0.183	1.248	0.00	24.60
70.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	0.40
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	1.50
70.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	18.25
70.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	1.35
70.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	5.25
70.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.814	0.183	1.248	0.00	57.39
70.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.183	1.248	0.00	1.50
75.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.969	0.189	1.267	0.00	24.60
75.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	0.40
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	1.50
75.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	18.25
75.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	1.35
75.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	5.25
75.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.969	0.189	1.267	0.00	57.39
75.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.189	1.267	0.00	1.50
80.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.118	0.196	1.288	0.00	24.60
80.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	0.40
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	1.50
80.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	18.25
80.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	1.35

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM
 Page: 36

Load Case: 1.0D + 1.0W

60.00 mph Serviceability

23 Iterations

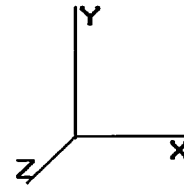
Gust Response Factor : 1.10
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Wind Importance Factor : 1.00

80.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	5.25
80.00	(14) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	8.118	0.196	1.288	0.00	57.39
80.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.196	1.288	0.00	1.50
80.75	(6) 1 5/8" Coax	Yes	0.75	1.200	1.98	0.12	0.15	8.139	0.200	0.000	1.33	3.68
80.75	(1) 3/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	0.06
80.75	(2) 1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	0.22
80.75	(1) 2" Conduit	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	2.73
80.75	(6) 5/16" Coax	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	0.20
80.75	(1) 1 1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	8.139	0.200	0.000	0.00	0.79
80.75	(14) 1 5/8" Coax	Yes	0.75	1.200	3.96	0.25	0.30	8.139	0.200	0.000	2.65	8.59
84.90	(6) 1 5/8" Coax	Yes	4.15	1.200	1.98	0.68	0.82	8.257	0.204	0.000	7.47	20.42
84.90	(1) 3/8" Coax	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	0.33
84.90	(2) 1/2" Coax	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	1.25
84.90	(1) 2" Conduit	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	15.15
84.90	(6) 5/16" Coax	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	1.12
84.90	(1) 1 1/4" Fiber	Yes	4.15	0.000	0.00	0.00	0.00	8.257	0.204	0.000	0.00	4.36
84.90	(14) 1 5/8" Coax	Yes	4.15	1.200	3.96	1.37	1.64	8.257	0.204	0.000	14.93	47.65
85.00	(6) 1 5/8" Coax	Yes	0.10	1.200	1.98	0.02	0.02	8.260	0.204	0.000	0.18	0.49
85.00	(1) 3/8" Coax	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.01
85.00	(2) 1/2" Coax	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.03
85.00	(1) 2" Conduit	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.37
85.00	(6) 5/16" Coax	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.03
85.00	(1) 1 1/4" Fiber	Yes	0.10	0.000	0.00	0.00	0.00	8.260	0.204	0.000	0.00	0.11
85.00	(14) 1 5/8" Coax	Yes	0.10	1.200	3.96	0.03	0.04	8.260	0.204	0.000	0.36	1.15
90.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	8.396	0.208	0.000	9.14	24.60
90.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	0.40
90.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	1.50
90.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	18.25
90.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	1.35
90.00	(1) 1 1/4" Fiber	Yes	5.00	0.000	0.00	0.00	0.00	8.396	0.208	0.000	0.00	5.25
90.00	(14) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.396	0.208	0.000	18.29	57.39
95.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.526	0.072	0.000	0.00	24.60
95.00	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.072	0.000	0.00	0.40
95.00	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.072	0.000	0.00	1.50
95.00	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.072	0.000	0.00	18.25
95.00	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.526	0.072	0.000	0.00	1.35
100.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.652	0.075	0.000	0.00	24.60
100.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.075	0.000	0.00	0.40
100.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.075	0.000	0.00	1.50
100.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.075	0.000	0.00	18.25
100.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.652	0.075	0.000	0.00	1.35
105.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.774	0.078	0.000	0.00	24.60
105.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.078	0.000	0.00	0.40
105.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.078	0.000	0.00	1.50
105.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.078	0.000	0.00	18.25
105.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.774	0.078	0.000	0.00	1.35
110.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	8.891	0.082	0.000	0.00	24.60
110.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.082	0.000	0.00	0.40
110.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.082	0.000	0.00	1.50
110.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.082	0.000	0.00	18.25
110.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.891	0.082	0.000	0.00	1.35
115.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.005	0.086	0.000	0.00	24.60
115.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.086	0.000	0.00	0.40
115.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.086	0.000	0.00	1.50
115.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.086	0.000	0.00	18.25
115.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	9.005	0.086	0.000	0.00	1.35
120.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	9.115	0.090	0.000	0.00	24.60

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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



7/17/2014 9:55:21 AM
 Page: 37

© 2007 - 2014 by ATC IP LLC. All rights reserved.

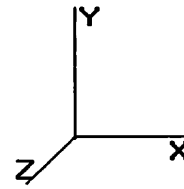
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	23 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

120.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.115	0.090	0.000	0.00	0.40
120.0	(2) 1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.115	0.090	0.000	0.00	1.50
120.0	(1) 2" Conduit	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.115	0.090	0.000	0.00	18.25
120.0	(6) 5/16" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.115	0.090	0.000	0.00	1.35
125.0	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.00	9.222	0.095	0.000	0.00	24.60
125.0	(1) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.00	9.222	0.095	0.000	0.00	0.40
125.8	(6) 1 5/8" Coax	Yes	0.80	0.000	1.98	0.13	0.00	0.00	9.239	0.098	0.000	0.00	3.94
125.8	(1) 3/8" Coax	Yes	0.80	0.000	0.00	0.00	0.00	0.00	9.239	0.098	0.000	0.00	0.06
130.0	(6) 1 5/8" Coax	Yes	4.20	0.000	1.98	0.69	0.00	0.00	9.326	0.184	1.253	0.00	20.66
130.0	(1) 3/8" Coax	Yes	4.20	0.000	0.00	0.00	0.00	0.00	9.326	0.184	1.253	0.00	0.34
131.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.00	9.346	0.184	1.253	0.00	4.92
131.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.00	9.346	0.184	1.253	0.00	0.08
135.0	(6) 1 5/8" Coax	Yes	4.00	0.000	1.98	0.66	0.00	0.00	9.427	0.184	1.253	0.00	19.68
135.0	(1) 3/8" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.00	9.427	0.184	1.253	0.00	0.32
136.0	(6) 1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.00	9.447	0.184	1.253	0.00	4.92
136.0	(1) 3/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.00	9.447	0.184	1.253	0.00	0.08
Totals:											171.88	2,337.89	

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM
 Page: 38

Load Case: 1.0D + 1.0W 60.00 mph Serviceability 23 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

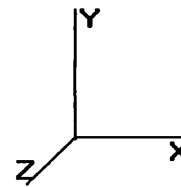
Applied Segment Forces Summary

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
5.00	129.32	1,704.16	0.00	0.00
10.00	126.22	1,678.68	0.00	0.00
15.00	123.13	1,653.20	0.00	0.00
20.00	120.04	1,627.71	0.00	0.00
25.00	116.95	1,602.23	0.00	0.00
30.00	113.95	1,576.75	0.00	0.00
35.00	115.85	1,551.26	0.00	0.00
40.00	117.00	1,525.78	0.00	0.00
40.24	5.63	73.70	0.00	0.00
45.00	114.05	2,136.25	0.00	0.00
45.40	13.61	177.66	0.00	0.00
50.00	158.97	1,262.85	0.00	0.00
55.00	173.32	1,351.66	0.00	0.00
55.68	23.21	181.34	0.00	0.00
60.00	149.45	859.71	0.00	0.00
65.00	170.08	973.98	0.00	0.00
70.00	125.78	982.74	0.00	0.00
75.00	114.71	929.55	0.00	0.00
80.00	186.33	1,012.30	0.00	0.00
80.75	23.86	133.77	0.00	0.00
84.90	134.18	1,055.83	0.00	0.00
85.00	3.21	13.97	0.00	0.00
90.00	733.44	3,316.26	0.00	0.00
95.00	107.54	610.56	0.00	0.00
100.0	909.95	3,044.80	0.00	0.00
105.0	101.81	525.74	0.00	0.00
110.0	812.66	2,916.18	0.00	0.00
115.0	95.40	447.42	0.00	0.00
120.0	1,006.46	3,617.36	0.00	0.00
125.0	88.40	377.20	0.00	0.00
125.8	13.75	59.04	0.00	0.00
130.0	26.71	261.96	0.00	0.00
131.0	834.04	2,844.78	0.00	0.00
135.0	25.58	186.36	0.00	0.00
136.0	79.07	117.09	0.00	282.70
140.0	25.72	166.37	0.00	0.00
142.0	12.88	83.18	0.00	0.00
Totals:	7,232.25	42,639.37	0.00	282.70

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM
 Page: 39

Load Case: 1.0D + 1.0W 60.00 mph Serviceability 23 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.00

Wind Load Factor : 1.00

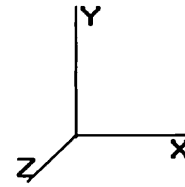
Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-42.64	-7.25	0.00	-679.60	0.00	679.60	4,350.13	2,175.06	7,987.32	3,944.64	0.00	0.00	0.129
5.00	-40.93	-7.15	0.00	-643.37	0.00	643.37	4,285.51	2,142.75	7,679.11	3,792.42	0.02	-0.04	0.126
10.00	-39.24	-7.05	0.00	-607.63	0.00	607.63	4,218.97	2,109.49	7,373.27	3,641.38	0.09	-0.08	0.123
15.00	-37.59	-6.95	0.00	-572.39	0.00	572.39	4,150.52	2,075.26	7,070.06	3,491.64	0.20	-0.13	0.119
20.00	-35.95	-6.85	0.00	-537.64	0.00	537.64	4,080.16	2,040.08	6,769.73	3,343.32	0.35	-0.17	0.116
25.00	-34.35	-6.76	0.00	-503.38	0.00	503.38	4,007.88	2,003.94	6,472.54	3,196.54	0.55	-0.21	0.112
30.00	-32.76	-6.66	0.00	-469.60	0.00	469.60	3,933.69	1,966.85	6,178.73	3,051.44	0.80	-0.25	0.108
35.00	-31.21	-6.56	0.00	-436.30	0.00	436.30	3,854.52	1,927.26	5,883.88	2,905.83	1.09	-0.30	0.104
40.00	-29.68	-6.45	0.00	-403.50	0.00	403.50	3,744.12	1,872.06	5,549.75	2,740.81	1.42	-0.34	0.101
40.24	-29.61	-6.45	0.00	-401.93	0.00	401.93	3,738.74	1,869.37	5,533.72	2,732.90	1.44	-0.34	0.101
45.00	-27.47	-6.33	0.00	-371.25	0.00	371.25	3,633.72	1,816.86	5,225.39	2,580.62	1.80	-0.38	0.096
45.40	-27.29	-6.33	0.00	-368.72	0.00	368.72	3,063.79	1,531.89	4,506.32	2,225.50	1.83	-0.39	0.107
50.00	-26.02	-6.18	0.00	-339.61	0.00	339.61	3,008.67	1,504.34	4,302.82	2,125.00	2.22	-0.42	0.102
55.00	-24.67	-6.01	0.00	-308.71	0.00	308.71	2,946.93	1,473.46	4,084.17	2,017.02	2.69	-0.47	0.096
55.68	-24.49	-5.99	0.00	-304.64	0.00	304.64	2,938.42	1,469.21	4,054.78	2,002.51	2.76	-0.47	0.095
55.68	-24.49	-5.99	0.00	-304.64	0.00	304.64	2,938.42	1,469.21	4,054.78	2,002.51	2.76	-0.47	0.160
60.00	-23.62	-5.86	0.00	-278.75	0.00	278.75	2,883.27	1,441.64	3,868.42	1,910.47	3.20	-0.51	0.154
65.00	-22.64	-5.70	0.00	-249.47	0.00	249.47	2,808.41	1,404.21	3,643.77	1,799.52	3.77	-0.58	0.147
70.00	-21.65	-5.59	0.00	-220.95	0.00	220.95	2,713.79	1,356.89	3,400.96	1,679.60	4.41	-0.65	0.140
75.00	-20.72	-5.49	0.00	-192.99	0.00	192.99	2,619.16	1,309.58	3,166.52	1,563.83	5.13	-0.71	0.131
80.00	-19.71	-5.30	0.00	-165.53	0.00	165.53	2,524.53	1,262.26	2,940.46	1,452.18	5.91	-0.78	0.122
80.75	-19.57	-5.29	0.00	-161.56	0.00	161.56	2,510.36	1,255.18	2,907.34	1,435.82	6.03	-0.79	0.120
84.90	-18.51	-5.15	0.00	-139.61	0.00	139.61	1,500.18	750.09	1,728.96	853.87	6.74	-0.84	0.176
85.00	-18.50	-5.16	0.00	-139.09	0.00	139.09	1,499.54	749.77	1,726.89	852.85	6.76	-0.84	0.175
90.00	-15.19	-4.39	0.00	-113.29	0.00	113.29	1,466.64	733.32	1,624.12	802.09	7.69	-0.92	0.152
95.00	-14.57	-4.29	0.00	-91.32	0.00	91.32	1,431.82	715.91	1,522.23	751.77	8.69	-1.00	0.132
100.00	-11.54	-3.34	0.00	-69.85	0.00	69.85	1,395.09	697.54	1,421.47	702.01	9.77	-1.06	0.108
105.00	-11.01	-3.24	0.00	-53.14	0.00	53.14	1,356.44	678.22	1,322.10	652.93	10.91	-1.12	0.090
110.00	-8.11	-2.38	0.00	-36.94	0.00	36.94	1,315.88	657.94	1,224.36	604.67	12.11	-1.16	0.067
115.00	-7.67	-2.28	0.00	-25.06	0.00	25.06	1,273.40	636.70	1,128.51	557.33	13.35	-1.20	0.051
120.00	-4.07	-1.19	0.00	-13.68	0.00	13.68	1,215.41	607.71	1,023.36	505.40	14.62	-1.23	0.030
125.00	-3.70	-1.10	0.00	-7.71	0.00	7.71	1,152.33	576.16	919.28	454.00	15.92	-1.24	0.020
125.80	-3.64	-1.08	0.00	-6.83	0.00	6.83	1,142.23	571.11	903.13	446.02	16.13	-1.25	0.019
125.80	-3.64	-1.08	0.00	-6.83	0.00	6.83	385.02	192.51	160.54	106.00	16.13	-1.25	0.074
130.00	-3.38	-1.05	0.00	-2.29	0.00	2.29	385.02	192.51	160.54	106.00	17.23	-1.25	0.030
131.00	-0.55	-0.16	0.00	-1.23	0.00	1.23	385.02	192.51	160.54	106.00	17.49	-1.26	0.013
135.00	-0.36	-0.13	0.00	-0.61	0.00	0.61	385.02	192.51	160.54	106.00	18.55	-1.26	0.007
136.00	-0.25	-0.04	0.00	-0.21	0.00	0.21	385.02	192.51	160.54	106.00	18.81	-1.26	0.003
140.00	-0.08	-0.01	0.00	-0.03	0.00	0.03	385.02	192.51	160.54	106.00	19.87	-1.27	0.000
142.00	0.00	-0.01	0.00	0.00	0.00	0.00	385.02	192.51	160.54	106.00	20.40	-1.27	0.000

Pole : 302511
 Location : WSPT - South, CT
 Height : 142.0 (ft)
 Base Dia : 45.00 (in)
 Top Dia : 10.75 (in)
 Shape : 12 Sides. Sect 4: Round
 Taper : 0.212638 (in/ft)

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

© 2007 - 2014 by ATC IP LLC. All rights reserved.



7/17/2014 9:55:21 AM
 Page: 40

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	40.83	0.00	50.34	0.00	0.00	3748.35	84.90	0.90
0.9D + 1.6W	38.87	0.00	38.67	0.00	0.00	3623.95	84.90	0.88
1.2D + 1.0Di + 1.0Wi	6.79	0.00	84.61	0.00	0.00	673.48	84.90	0.20
1.0D + 1.0W	7.25	0.00	42.64	0.00	0.00	679.60	84.90	0.18

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
			VQ/I (lb/in)	Shear 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	55.6	(4) SOL-#20 All Thre	332.7	10.0	16.8	201.6	12.0	17	22	0.0	12.0	0	0	257.3	330.5	0.779

Base/Flange Plate	Plate Type	Baseplate
	Pole Diameter	45 in
	Pole Thickness	0.4375 in
	Plate Diameter	60 in
	Plate Thickness	2 in
	Plate Fy	60 ksi
	Weld Length	0.25 in
	ϕ_s Resistance	942.65 k-in
	Applied	461.86 k-in
	#	16 Show
Stiffeners	Thickness	0.5 in
	Length	4 in
	Height	10 in
	Chamfer	0 in
	Offset Angle	0 °
	Fy	36 ksi

Bolts	#	16
	Bolt Circle (R)adial / (S)quare	54 in R
	Diameter	2.25 in
	Hole Diameter	2.625 in
	Type	18J
	Fy	75 ksi
	Fu	100 ksi
	ϕ_s Resistance	259.82 k
Applied	157.23 k	
Reinforcement	#	4
	DYW. Circle	52 in
	Offset Angle	11.25 °
	Type	#20
	Diameter	2.5 in
Fu	100 ksi	
Extra Bolts O	#	0

Code Rev. **G**

Date **7/17/2014**
 Engineer **William Maynard**
 Site # **302511**
 Carrier **Sprint**

Moment **3748.4 k-ft**
 Axial **50.3 k**

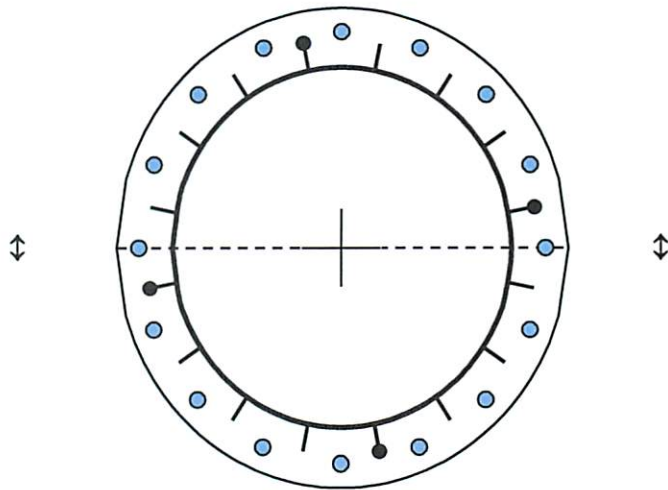


Plate Stress Ratio:
0.49 (Pass)

Bolt Stress Ratio:
0.61 (Pass)