

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

January 16, 2009

Mark R. Richard
UMTS Project Manager
T-Mobile USA, Inc.
35 Griffin Road South
Bloomfield, CT 06002

RE: **EM-T-MOBILE-015-081216** - Omnipoint Communications, as subsidiary of T-Mobile USA, Inc., notice of intent to modify an existing telecommunications facility located at 1069 Connecticut Avenue, Bridgeport, Connecticut.

Dear Mr. Richard:

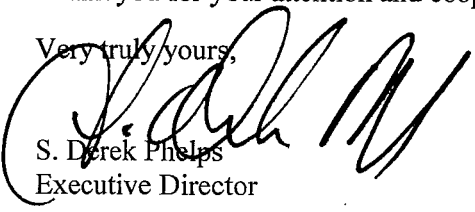
The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 16, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


S. Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Bill Finch, Mayor, City of Bridgeport
Melanie J. Howlett, Associate City Attorney, City of Bridgeport
Spectrasite Communications, Inc.
Carrie L. Larson, Esq., Pullman & Comley LLC



CONNECTICUT SITING COUNCIL

Affirmative Action / Equal Opportunity Employer



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Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

December 18, 2008

The Honorable Bill Finch
Mayor
City of Bridgeport
City Hall Annex
999 Broad Street
Bridgeport, CT 06604

RE: **EM-T-MOBILE-015-081216** - Omnipoint Communications, as subsidiary of T-Mobile USA, Inc. notice of intent to modify an existing telecommunications facility located at 1069 Connecticut Avenue, Bridgeport, Connecticut.

Dear Mayor Finch:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by January 2, 2009.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps
Executive Director

SDP/laf

Enclosure: Notice of Intent

c: Melanie J. Howlett, Associate City Attorney, City of Bridgeport

December 16, 2008

Via Federal Express

S. Derek Phelps, Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

**Re: Notice of Exempt Modification
American Tower Corporation Telecommunications Facility
1069 Connecticut Avenue, Bridgeport, Connecticut
T-Mobile Site CT11452A**

RECEIVED
DEC 16 2008CONNECTICUT
SITING COUNCIL

Dear Mr. Phelps:

Omnipoint Communications, a subsidiary of T-Mobile USA, Inc. ("T-Mobile"), intends to replace existing antennas, install additional antennas and replace existing ground equipment at the existing 130-foot Monopole facility owned by Spectrasite and located at 1069 Connecticut Avenue, Bridgeport, Connecticut ("Facility"). T-Mobile is licensed by the Federal Communications Commission (FCC) to provide PCS wireless telecommunications service in the State of Connecticut, which includes the area to be served by the proposed installation. This installation constitutes an exempt modification pursuant to the Public Utility Environmental Standards Act, Connecticut General Statutes Section 16-50g *et. seq.* (PUESA), and Section 16-50j-72(b)(2) of the Regulations of the Connecticut State Agencies adopted pursuant to PUESA. In accordance with R.C.S.A. Section 16-50j-73, a copy of this notice has been sent to, Bill Finch, Mayor, City of Bridgeport.

The existing Facility consists of a 130-foot self-supporting Monopole tower capable of supporting multiple carriers within a fenced compound and was previously approved by the City of Bridgeport. The coordinates for the Facility are approximately **Lat: 41°-11'-29"** and **Long: 73°-09'-29"**. The tower is located in the southeast portion of Bridgeport, approximately 150 feet north of Connecticut Avenue, roughly 3,100 feet north of Interstate 95 and roughly 3,500 feet south of Boston Avenue (Route 1) (see Site Map, attached as Exhibit A). The tower currently supports Metro PCS antennas at the ninety nine foot (99') level centerline AGL (above ground level), AT&T antennas at the one hundred ten foot level (110') AGL, and Nextel antennas at the one hundred thirty foot level (130') AGL. T-Mobile currently has antennas on the tower at the one hundred nineteen foot (119') level centerline AGL (above ground level) The current T-Mobile antenna configuration is one per sector, for a total of three antennas. T-Mobile proposes to add an additional three antennas (one per sector), for a total of six antennas at their current elevation on the tower. T-Mobile proposes to install three RFS APX16PV-16PVL-C antennas on existing pipe mounts at the same elevation, one hundred nineteen foot (119') level centerline AGL. T-Mobile also intends to replace one of it's existing S12000 equipment cabinets with a UMTS 3106 equipment cabinet. Two existing S12000 equipment cabinets will remain. The three cabinets will all be mounted on T-Mobile's existing equipment pad contained within T-Mobile's existing lease area. T-Mobile intends to run new coaxial cable on its existing ice bridge from its current equipment pad to the existing tower. Utilities will be run via a proposed

underground conduit from existing utility sources at the Facility (See Design Drawings and Equipment Specifications, attached as Exhibits B and C respectively).

For the following reasons, the proposed modifications to the Connecticut Avenue Facility meet the exempt modification criteria set forth in R.C.S.A. Section 16-50j-72(b)(2):

1. The proposed modification will not increase the height of the tower as T-Mobile seeks to add to its existing antenna configuration and install additional antennas at a center line height of approximately 119 feet.
2. The installation and replacement of T-Mobile's antennas and ground equipment will not require an extension of the site boundaries.
3. The proposed modifications will not increase the noise levels at the existing Facility by six decibels or more.
4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the site boundary, to a level at or above the standard adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and MPE limits established by the Federal Communications Commission. The worst-case RF power density calculations for the proposed Pocket antennas would be 67.458% of the FCC standard (see general power density calculations table, attached as Exhibit D).

Also attached, Exhibit E, is a structural assessment confirming that the tower can support the existing and proposed antennas and associated equipment. Of note, because all antennas are internally mounted in the flagpole, the additional three antennas will not increase the ice and winding loading for the tower.

For the foregoing reasons, T-Mobile respectfully submits that the proposed antenna installation and equipment at the Bridgeport Facility constitutes an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Respectfully Submitted,



Mark R. Richard
UMTS Project Manager
Agent for T-Mobile

cc: Bill Finch, Mayor
WR CT Avenue LLC, underlying property owner

T-Mobile USA, Inc.
Office: (860) 692-7100
Fax: (860) 692-7159
35 Griffin Rd S
Bloomfield, CT 06002

Exhibit A

Site Map

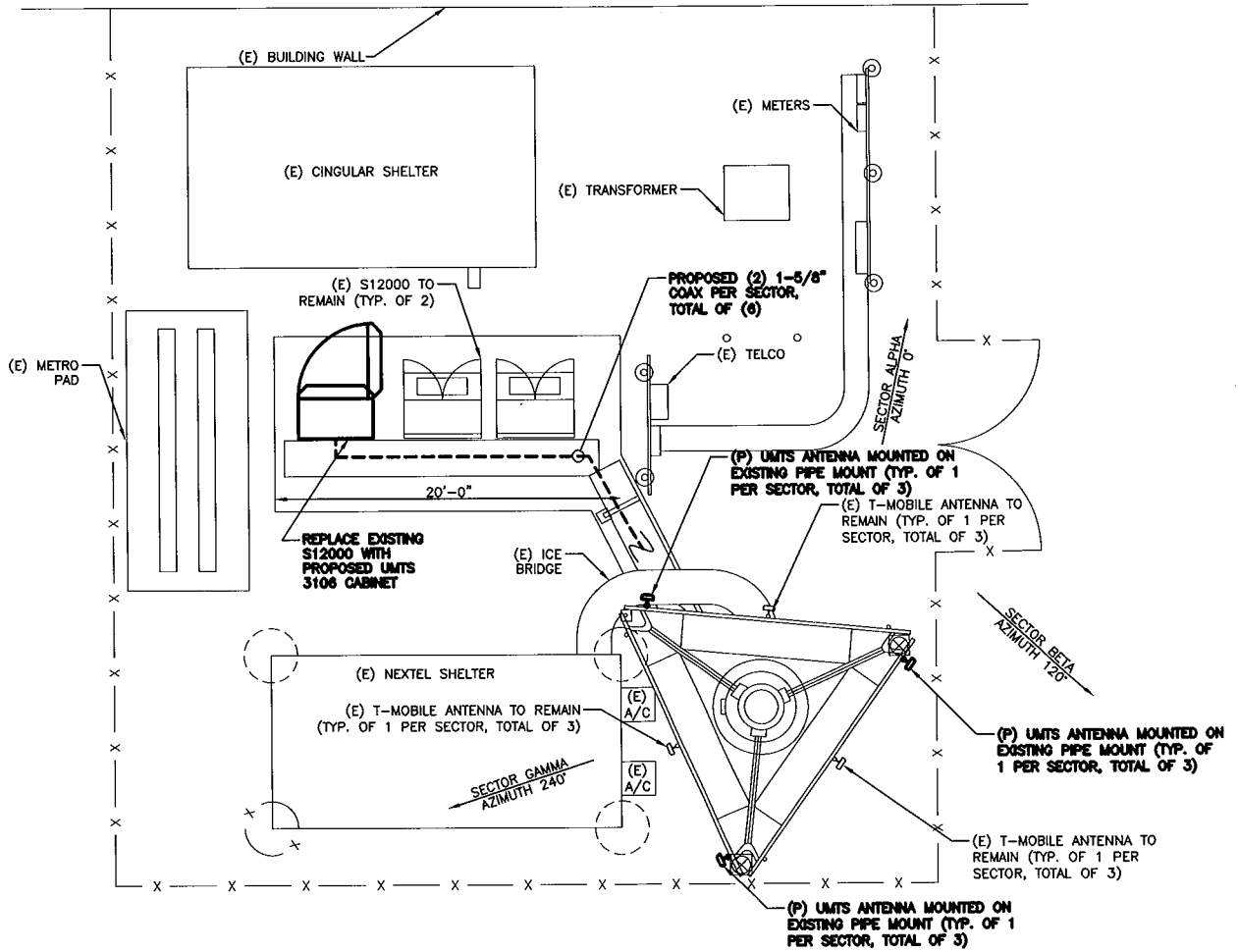
**T-Mobile Site CT11452A
1069 Connecticut Avenue
Bridgeport, Connecticut**



Exhibit B

Design Drawings

**T-Mobile Site CT11452A
1069 Connecticut Avenue
Bridgeport, Connecticut**



COMPOUND LAYOUT PLAN

SCALE: NTS



T-Mobile
15 COMMERCE WAY
NORTON, MA 02766



50 Eastman St.
South Easton, MA 02375
Phone: (508) 936-6363
Fax: (508) 936-6365

PROJECT LOCATION:
BRIDGEPORT/CONN. AVE
CT11452A
1069 CONNECTICUT AVE
BRIDGEPORT, CTI 06607

APPROVED BY:

PROJECT MANAGER:
KB

DRAWN BY:
DR

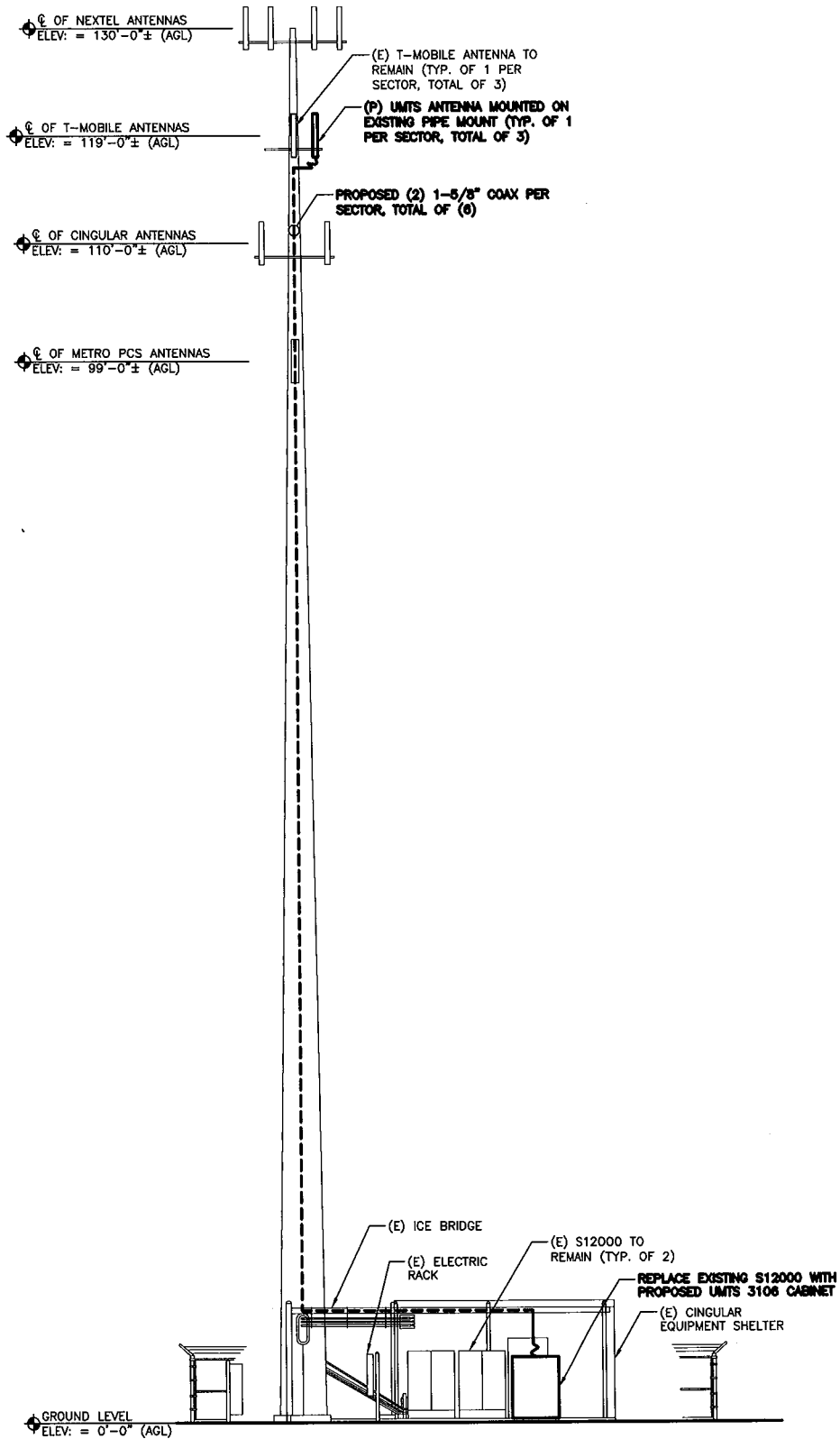
BSDA PROJ. #:
2889.091

**COMPOUND
LAYOUT
PLAN**

SHEET:

L1

10/15/08



ELEVATION

SCALE: N.T.S.

1

T-Mobile
15 COMMERCE WAY
HORTON, MA 02766



50 Eastman St.
South Easton, MA 02375
Phone: (508) 936-8393
Fax: (508) 936-8395

PROJECT LOCATION:
BRIDGEPORT/CONN. AVE
CT11452A
1069 CONNECTICUT AVE
BRIDGEPORT, CTI 06607

APPROVED BY:

PROJECT MANAGER:
KB

DRAWN BY:
DR

BSDA PROJ. #:
2889.091

SHEET:

L2

ELEVATION

10/15/08

Exhibit C

Equipment Specifications

T-Mobile Site CT11452A

1069 Connecticut Avenue

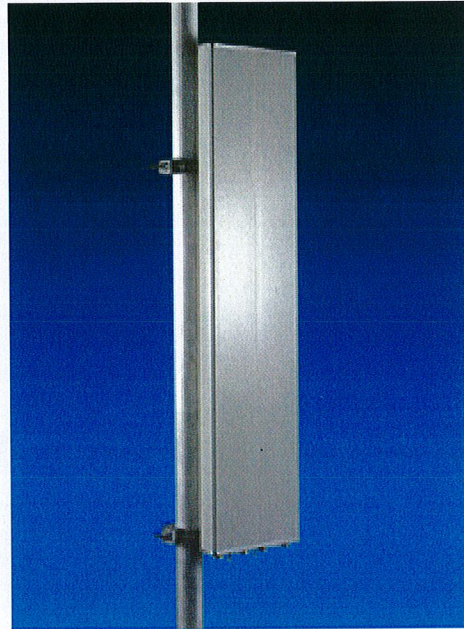
Bridgeport, Connecticut



Optimizer® Panel Dual Polarized Antenna

Product Description

Gathering two X-Polarised antennas in a single radome this pair of variable tilt antenna provides exceptional suppression of all upper sidelobes at all downtilt angles. It also features a wide downtilt range with optional remote tilt.



Features/Benefits

- Variable electrical downtilt - provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-10 deg.
- High Suppression of all Upper Sidelobes (Typically <-20dB).
- Optional remote tilt - can be retrofitted.
- Two X-Polarised panels in a single radome.
- Dual polarization.
- Low profile for low visual impact.
- Broadband design.

Technical Features

Frequency Band	PCS 1900 (1850-1990 MHz)
Horizontal Pattern	Directional
Antenna Type	Panel Dual Polarized
Electrical Down Tilt Option	Variable
Gain, dBi (dBd)	17.8 (15.8) , 17.8 (15.8)
Frequency Range, MHz	1850-1990 , 1850-1990

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



Optimizer® Panel Dual Polarized Antenna

Connector Type	(4) 7-16 DIN Female
Connector Location	Bottom
Mount Type	Downtilt
Electrical Downtilt, deg	0-10 , 0-10
Horizontal Beamwidth, deg	66 , 66
Mounting Hardware	APM40-2
Rated Wind Speed, km/h (mph)	160 (100)
VSWR	< 1.5:1
Vertical Beamwidth, deg	6.6
1st Upper Sidelobe Suppression, dB	> 17 (typically > 20)
Upper Sidelobe Suppression, dB	> 18 all (typically > 20)
Polarization	Dual pol +/-45°
Front-To-Back Ratio, dB	> 25
Maximum Power Input, W	300
Isolation between Ports, dB	> 30
Lightning protection	Direct Ground
3rd Order IMP @ 2 x 38 dBm, dBc	> 160
Overall Length, m (ft)	1.35 (4.42)
Dimensions - HxWxD, mm (in)	1349 x 330 x 80 (53 x 12.9 x 3.1)
Weight w/o Mtg. Hardware, kg (lb)	18.0 (39.6)
Radiating Element Material	Brass
Radome Material	Fiberglass
Reflector Material	Aluminum
Max Wind Loading Area, m ² (ft ²)	0.64 (6.6)
Maximum Thrust @ Rated Wind, N (lbf)	787 (177)
Shipping Weight, kg (lb)	23.8 (52)
Packing Dimensions, HxWxD, mm (in)	1550 x 420 x 210 (61 x 16.5 x 8.3)
Survival Wind Speed, km/h (mph)	200 (125)

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

RFS The Clear Choice™

APX16PV-16PVL-C

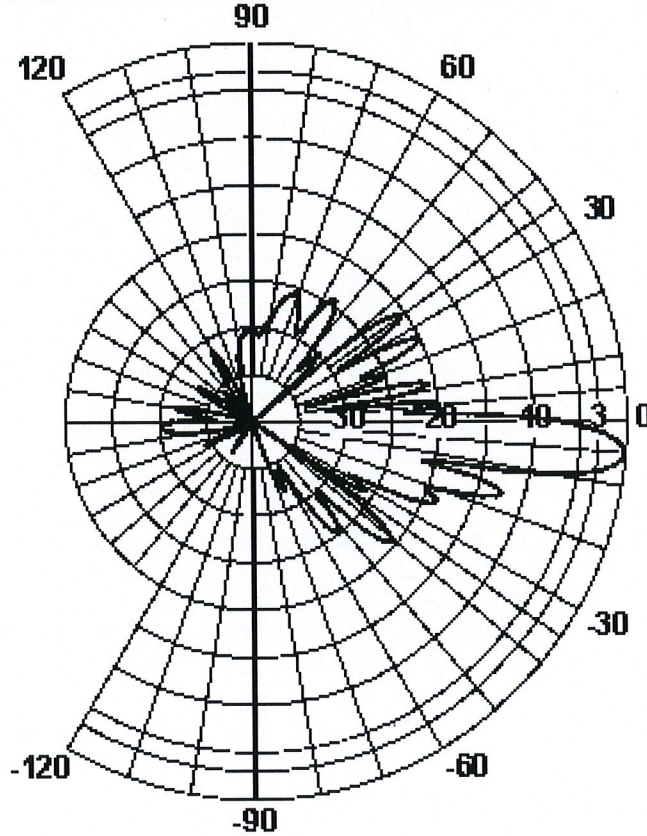
Print Date: 21.03.2005



Optimizer® Panel Dual Polarized Antenna

Vertical Pattern

(This is a general representation of the antenna family pattern. For the latest detailed pattern contact Applications Engineering. You may also download the CELotot(TM) pattern reader and antenna pattern data fields from our website.)



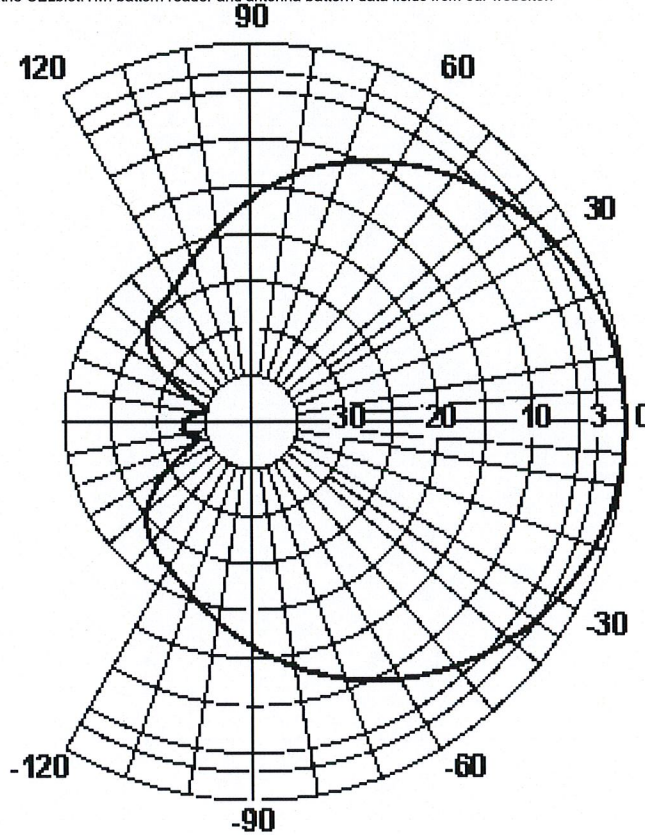
All information contained in the present datasheet is subject to confirmation at time of ordering.



Optimizer® Panel Dual Polarized Antenna

Horizontal Pattern

(This is a general representation of the antenna family pattern. For the latest detailed pattern contact Applications Engineering. You may also download the CELolot(TM) pattern reader and antenna pattern data fields from our website.)



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



Optimizer® Panel Dual Polarized Antenna equipped with (2) ACU motors

Product Description

Gathering two X-Polarized antennas in a single radome this pair of variable tilt antenna provides exceptional suppression of all upper sidelobes at all downtilt angles. It also features a wide downtilt range with optional remote tilt.

This antenna is optimized for performance across the entire AWS frequency band (1710-2170 MHz). The antenna comes pre-connected with the antenna control unit (ACU).



Features/Benefits

- Variable electrical downtilt - provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-10 deg.
- High Suppression of all Upper Sidelobes (Typically <-20dB).
- Gain difference between UL and DL <1dB.
- Two X-Polarised panels in a single radome.
- Azimuth horizontal beamwidth difference <7deg between UL and DL (1710-1755 & 2110-2155).
- Low profile for low visual impact.
- Dual polarization; Broadband design.

Technical Features

Frequency Band	3G/UMTS
Horizontal Pattern	Directional
Antenna Type	Panel Dual Polarized
Electrical Down Tilt Option	Variable
Gain, dBi (dBd)	18.0 (16.0) Avg. across band
Frequency Range, MHz	1710-2170



Optimizer® Panel Dual Polarized Antenna equipped with (2) ACU motors

Connector Type	(4) 7-16 DIN Female
Connector Location	Bottom
Mount Type	Downtilt Kit w/Scissor Kit
Electrical Downtilt, deg	0-10 , 0-10
Horizontal Beamwidth, deg	65 ±5 (65.9 average across band)
Mounting Hardware	APM40-2 + APM40-E2
Rated Wind Speed, km/h (mph)	160 (100)
VSWR	< 1.4:1
Vertical Beamwidth, deg	5.8 to 7.8 across band
1st Upper Sidelobe Suppression, dB	> 18 (typically > 20)
Upper Sidelobe Suppression, dB	> 18 all (typically > 20)
Polarization	Dual pol +/-45°
Front-To-Back Ratio, dB	>28
Maximum Power Input, W	300
Isolation between Ports, dB	> 30
Lightning protection	Direct Ground
3rd Order IMP @ 2 x 43 dBm, dBc	> 150 (155 Typical)
Overall Length, m (ft)	1.35 (4.42)
Dimensions - HxWxD, mm (in)	1349 x 330 x 80 (53 x 13 x 3.15)
Radiating Element Material	Brass
Radome Material	Fiberglass
Reflector Material	Aluminum
Max Wind Loading Area, m ² (ft ²)	0.64 (6.6)
Survival Wind Speed, km/h (mph)	200 (125)
Maximum Thrust @ Rated Wind, N (lbf)	787 (177)
Front Thrust @ Rated Wind, N (lbf)	787 (177)
Shipping Weight, kg (lb)	24.1 (52.7)
Packing Dimensions, HxWxD, mm (in)	1550 x 420 x 210 (61 x 16.5 x 8.3)
Weight w/o Mtg Hardware, kg (lb)	18.0 (39.6)

Note

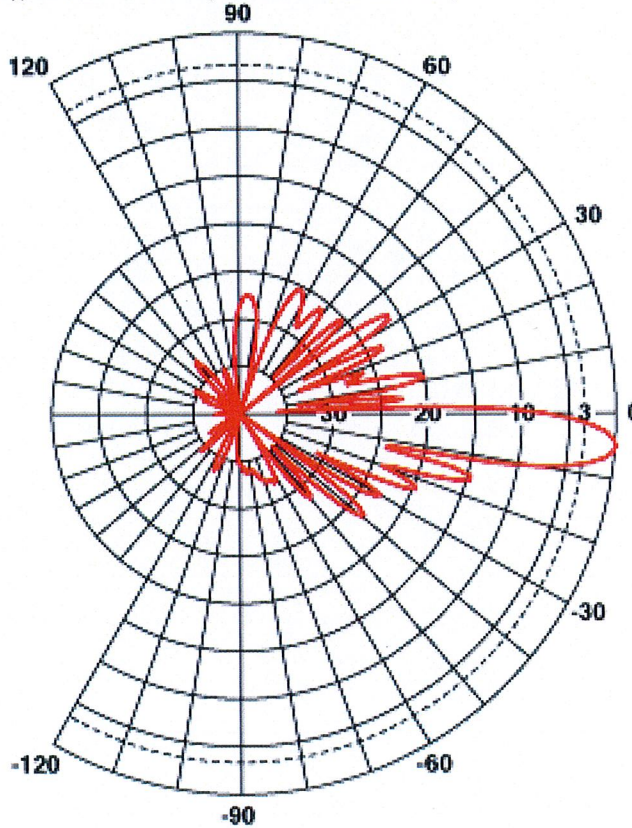
This data is provisional and subject to change.



Optimizer® Panel Dual Polarized Antenna equipped with (2) ACU motors

Vertical Pattern

(This is a general representation of the antenna family pattern. For the latest detailed pattern contact Applications Engineering. You may also download the CELplot(TM) pattern reader and antenna pattern data fields from our website.)



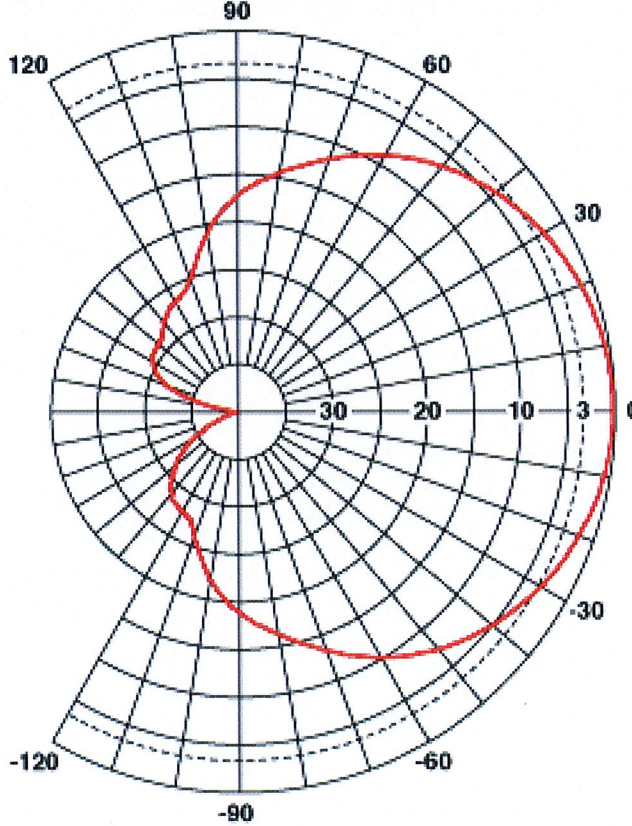
All information contained in the present datasheet is subject to confirmation at time of ordering.



Optimizer® Panel Dual Polarized Antenna equipped with (2) ACU motors

Horizontal Pattern

(This is a general representation of the antenna family pattern. For the latest detailed pattern contact Applications Engineering. You may also download the CELplot(TM) pattern reader and antenna pattern data fields from our website.)



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

3 Dimensions

This section describes the physical characteristics of the RBS, that is, dimensions, weight, and color.

Table 1 RBS 3106 Dimensions

Unit	Dimensions (mm)
Height (including installation frame)	1626
Width	1300
Depth	710
Depth including door	926

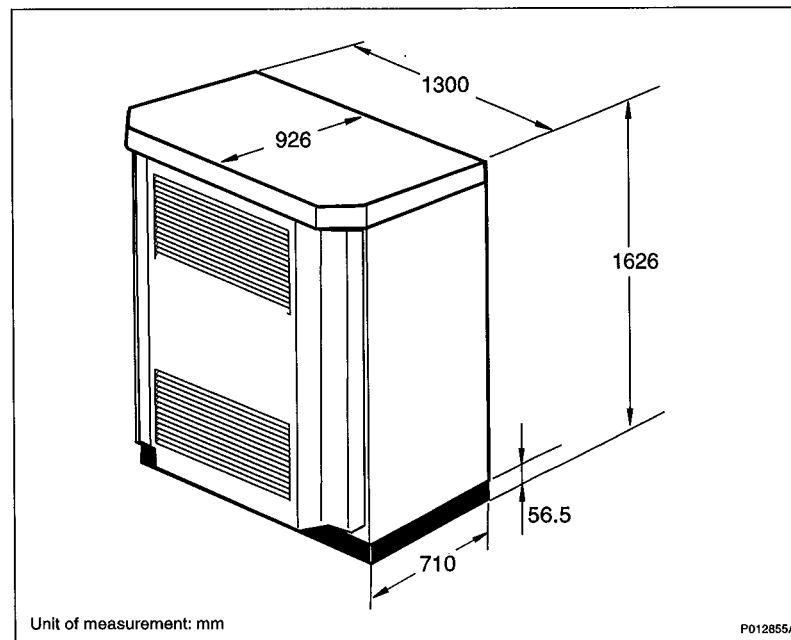


Figure 2 RBS 3106 Dimensions

The various weights of the RBS 3106 are shown in the table below.

Table 2 RBS 3106 Weights

Unit	Type	Weight (kg)
RBS fully equipped excluding batteries	AC-powered	560
RBS fully equipped including batteries	AC-powered	850

Unit	Type	Weight (kg)
RBS fully equipped including batteries and future expansion of hardware (not yet available)	AC-powered	875
RBS fully equipped	DC-powered	510
Installation frame	AC- and DC-powered	12

The color of RBS 3106 is shown in the table below.

Table 3 RBS 3106 Color

Color	Color Standard
Gray	RAL 7035
Green	NCS 8010-G 10 Y

Exhibit D

Power Density Calculations

T-Mobile Site CT11452A

1069 Connecticut Avenue

Bridgeport, Connecticut

Technical Memo

To: Maxton
From: Farid Marbough - Radio Frequency Engineer
cc: Jason Overbey
Subject: Power Density Report for CT11452A
Date: December 12, 2008

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the T-Mobile PCS antenna installation on a Self Support Tower at 1069 Connecticut Avenue, Bridgeport, CT. This study incorporates the most conservative consideration for determining the practical combined worst case power density levels that would be theoretically encountered from locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from T-Mobile transmitters are in the (1940-1949.8), (2140-2145), (2110-2120)MHz frequency Band.
- 2) The antenna array consists of three sectors, with 2 antennas per sector.
- 3) The model number for GSM antenna is APX16PV-16PVL.
- 3) The model number for UMTS antenna is APX16DWV-16DWV.
- 4) GSM antenna center line height is 119 ft.
- 4) UMTS antenna center line height is 119 ft.
- 5) The maximum transmit power from any GSM sector is 2322.31 Watts Effective Radiated Power (EiRP) assuming 8 channels per sector.
- 5) The maximum transmit power from any UMTS sector is 2426 Watts Effective Radiated Power (EiRP) assuming 2 channels per sector.
- 6) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 7) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) The average ground level of the studied area does not change significantly with respect to the transmitting location

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worst case assumptions, the power density calculation from the T-Mobile PCS antenna installation on a Self Support Tower at 1069 Connecticut Avenue, Bridgeport, CT, is 0.08158 mW/cm². This value represents 8.158% of the Maximum Permissible Exposure (MPE) standard of 1 milliwatt per square centimeter (mW/cm²) set forth in the FCC/ANSI/IEEE C95.1-1991. Furthermore, the proposed antenna location for T-Mobile will not interfere with existing public safety communications, AM or FM radio broadcasts, TV, Police Communications, HAM Radio communications or any other signals in the area.

The combined Power Density from other carriers is 59.3%. The combined Power Density for the site is 67.458% of the M.P.E. standard.

Connecticut Market



Worst Case Power Density

Site: CT11452A
Site Address: 1069 Connecticut Avenue
Town: Bridgeport
Tower Height: 130 ft.
Tower Style: Self Support Tower

GSM Data		UMTS Data	
Base Station TX output	20 W	Base Station TX output	40 W
Number of channels	8	Number of channels	2
Antenna Model	APX16PV-16PVL	Antenna Model	APX16DWV-16DWV
Cable Size	1 5/8 in.	Cable Size	1 5/8 in.
Cable Length	145 ft.	Cable Length	145 ft.
Antenna Height	119.0 ft.	Antenna Height	119.0 ft.
Ground Reflection	1.6	Ground Reflection	1.6
Frequency	1945.0 MHz	Frequency	2.1 GHz
Jumper & Connector loss	4.50 dB	Jumper & Connector loss	1.50 dB
Antenna Gain	17.8 dBi	Antenna Gain	18.0 dBi
Cable Loss per foot	0.0116 dB	Cable Loss per foot	0.0116 dB
Total Cable Loss	1.6820 dB	Total Cable Loss	1.6820 dB
Total Attenuation	6.1820 dB	Total Attenuation	3.1820 dB
Total EIRP per Channel (In Watts)	54.63 dBm 290.29 W	Total EIRP per Channel (In Watts)	60.84 dBm 1213.00 W
Total EIRP per Sector (In Watts)	63.66 dBm 2322.31 W	Total EIRP per Sector (In Watts)	63.85 dBm 2426.00 W
nsg	11.6180	nsg	14.8180
Power Density (S) = 0.039901 mW/cm ²		Power Density (S) = 0.041682 mW/cm ²	
T-Mobile Worst Case % MPE =		8.1583%	

Equation Used:

$$S = \frac{(1000)(grf)^2 (Power)^{10^{(nsg10)}}}{4\pi (R)^2}$$

Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Co-Location Total

Carrier	% of Standard
Verizon	
Cingular	5.5400 %
Sprint	3.9600 %
AT&T Wireless	9.9400 %
Nextel	4.7900 %
MetroPCS	19.2400 %
Other Antenna Systems	15.8300 %
Total Excluding T-Mobile	59.3000 %
T-Mobile	8.1583
Total % MPE for Site	67.4583%

Exhibit E

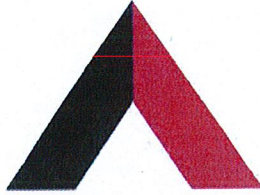
Structural Analysis

T-Mobile Site CT11452A

1069 Connecticut Avenue

Bridgeport, Connecticut

PASSED



AMERICAN TOWER™
CORPORATION

Structural Analysis Report

Structure : 130 ft EEI Monopole
ATC Site Name : Bridgeport CT 2, CT
ATC Site Number : 302469
Proposed Carrier : T-Mobile
Carrier Site Name : CT11452/Bridgeport
Carrier Site Number : CT11452/Bridgeport
County : Fairfield
Eng. Number : 42659622
Date : November 19, 2008
Usage : 86% (Pole Shafts), 69% (Anchor Bolts)

Submitted by:
Uma S. Atluri, MS, EIT
Project Engineer

American Tower Engineering Services
8505 Freeport Parkway
Suite 135
Irving, TX 75063
Phone: 972-999-8900

Reviewed by:
Jaime Reyes, P.E.
Director of Engineering





AMERICAN TOWER™
CORPORATION

Structural Analysis Report

Structure : 130 ft EEI Monopole
ATC Site Name : Bridgeport CT 2, CT
ATC Site Number : 302469
Proposed Carrier : T-Mobile
Carrier Site Name : CT11452/Bridgeport
Carrier Site Number : CT11452/Bridgeport
County : Fairfield
Eng. Number : 42659622
Date : November 19, 2008
Usage : 86% (Pole Shafts), 69% (Anchor Bolts)

Submitted by:
Uma S. Atluri, MS, EIT
Project Engineer

Reviewed by:
Jaime Reyes, P.E.
Director of Engineering

American Tower Engineering Services
8505 Freeport Parkway
Suite 135
Irving, TX 75063
Phone: 972-999-8900

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 130 ft EEI Monopole located at Bridgeport CT 2, CT, Fairfield County (ATC site # 302469). The pole was originally designed and manufactured by EEI (Drawing #5543 dated October 13, 1999). The pole was considered to be modified according to ATC Job#41045932, dated 11/02/07.

Analysis

The existing tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition. A 5% overstress is allowed in the existing structural members to account for program variances.

Basic Wind Speed: 110 mph (3-Second Gust)
 Radial Ice: 50 mph (3-Second Gust) w/ 0.75" ice
 Standard/Code: ANSI/TIA-222-G / 2006 IBC / 2005 & 2008 CT Supplement

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (I/O)	Carrier
126.0	3	72"x12" Panels	Platform with Handrails	(12) 1 5/8(I)	Sprint Nextel
	9	48"x12" Panels			
110.0	12	LGP-2140X	Low Profile Platform	(12) 1 5/8(O)	AT&T Mobility
	6	Kathrein 800 10122			
98.0	3	RCU	(3) Flush Mounts	(6) 1 5/8(O)	Metro PCS
	3	Kathrein 800 10504		(3) 3/8(O)	
80.0	1	BCD-87010	(1) Pipe Mount	(1) 7/8(O)	USA Mobility

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (I/O)	Carrier
119.0	6	APX16PV-16PVL-A	Existing Low Profile Platform	(18) 1 5/8(I)	T-Mobile
	6	Ericsson KRY 112 71			
	3	Andrew ETW200VS12UB			
	3	RFS APX16DWV-16DWVS-E-A20			

Note: (O) – Coax installed outside the pole shafts. (I) – Coax installed inside the pole shafts.

The existing and the proposed transmission lines were considered running inside or outside the pole shafts as indicated above.

Results

The existing 130 ft EEI Monopole with the existing and the proposed antennas is structurally acceptable per ANSI/TIA-222 Rev G standards. The maximum structure usage is: 86% (pole shafts) and 69% (Anchor Bolts).

Additional exit and/or entry ports may be required to accommodate the running of the proposed lines to the proposed antennas. These additional ports may not be installed without installation drawings providing the location, size and welding requirements of each port.

To ensure compliance with all conditions of this structural analysis, port installation drawings shall be provided by American Tower's Engineering Department under a subsequent project.

Pole Reactions	Original Design Reactions	Current Analysis Reactions	% Of Design
Moment (ft-kips)	2,049.1	2,301.9	84*
Shear (kips)	20.7	24.6	89*

* A 1.35 factor was included in the calculations of the percentages per EIA-222-G section 15.5.1

The structure base reactions resulting from the current analysis do not exceed the ones shown on the original structural drawings or calculations. Therefore, assuming the original foundation was designed correctly, the existing foundation should be adequate to support the new reactions. Therefore, no modification to the existing foundation will be required.

Conclusion

The existing monopole and its foundation were found to be adequate to support the existing and proposed antennas with the transmission line distribution as described above while meeting the requirements of the code or standard as specified in this report.

If you have any questions or require additional information, please call (972) 999-8900.

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, the antenna 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 Engineering Services 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 are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. 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. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

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

Job Information			
Pole:	302469	Code:	ANSI/TIA-222 Rev G
Description:	130 ft EEI Monopole	Struct Class:	II
Client:	T-Mobile	Exposure:	B
Location:	Bridgeport CT 2, CT	Topo:	1
Shape:	18 Sides	Base Elev (ft):	0.00
Height:	126.00 (ft)	Taper:	0.235121(in/ft)

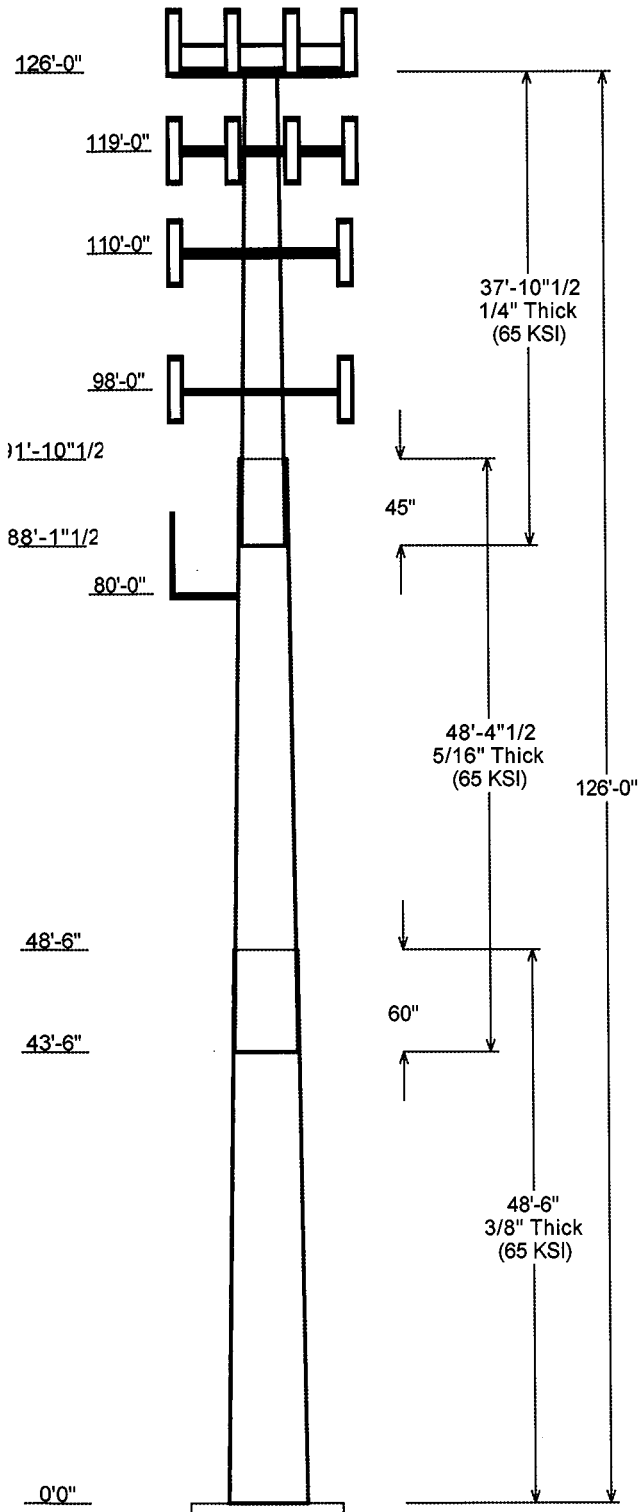
Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across Top	Flats Bottom				
1	48.500	34.09	45.50	0.375	0.000	0.235121	65
2	48.375	24.52	35.89	0.313 Slip Joint	60.000	0.235121	65
3	37.875	17.00	25.90	0.250 Slip Joint	45.000	0.235121	65

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
126.000	129.000	3	72"x12" Panels	
126.000	129.000	9	48"x12" Panels	
126.000	129.000	1	Platform with Handrails	
119.000	119.000	6	APX16PV-16PVL-A	
119.000	119.000	6	Ericsson KRY 112 71	
119.000	119.000	3	Andrew ETW200VS12UB	
119.000	119.000	3	RFS APX16DWV-16DWVS-E-A20	
119.000	119.000	1	Low Profile Platform	
110.000	110.000	12	LGP-2140X	
110.000	110.000	6	Kathrein 800 10122	
110.000	110.000	1	Low Profile Platform	
98.000	98.000	3	RCU	
98.000	98.000	3	Kathrein 800 10504	
98.000	98.000	3	Flush Mounts	
80.000	85.665	1	BCD-87010	
80.000	80.000	1	Pipe Mount	

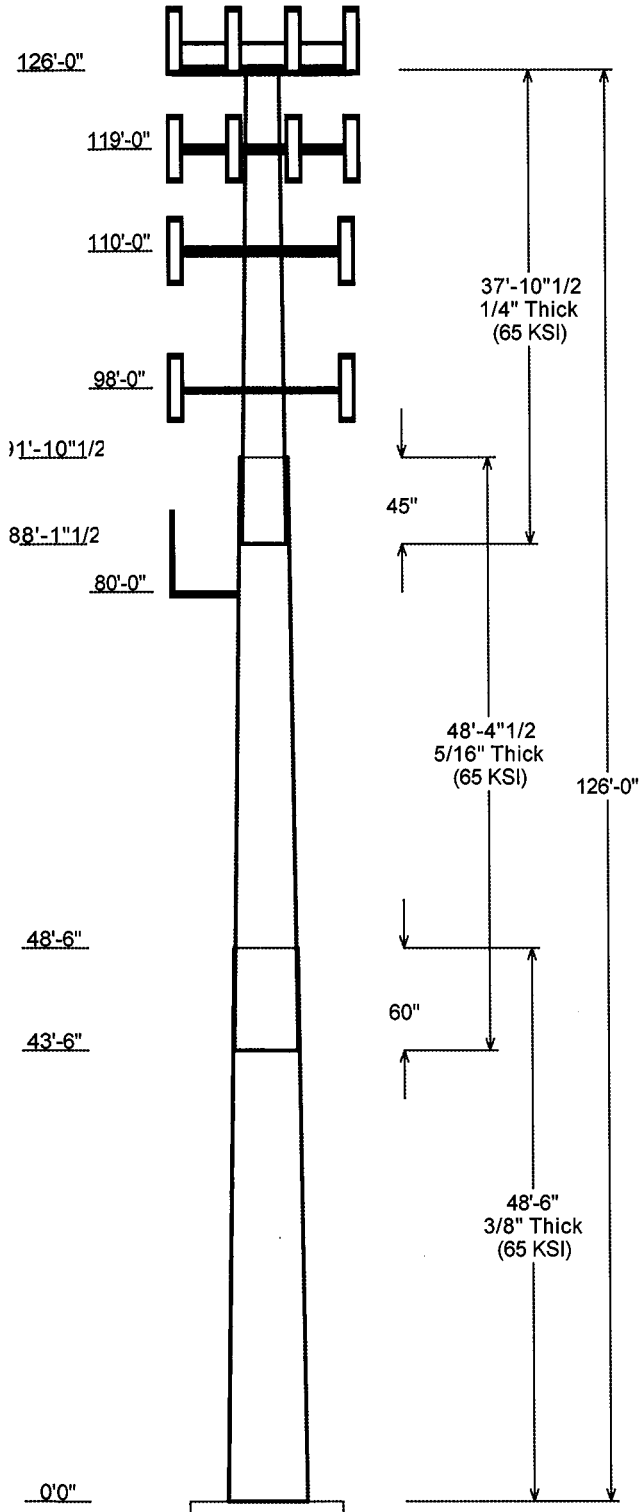
Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind
0.000	80.000	7/8" Coax	Yes
0.000	98.000	1 5/8" Coax	Yes
0.000	98.000	3/8" Coax	Yes
0.000	110.0	1 5/8" Coax	Yes
0.000	119.0	1 5/8" Coax	No
0.000	126.0	1 5/8" Coax	No

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

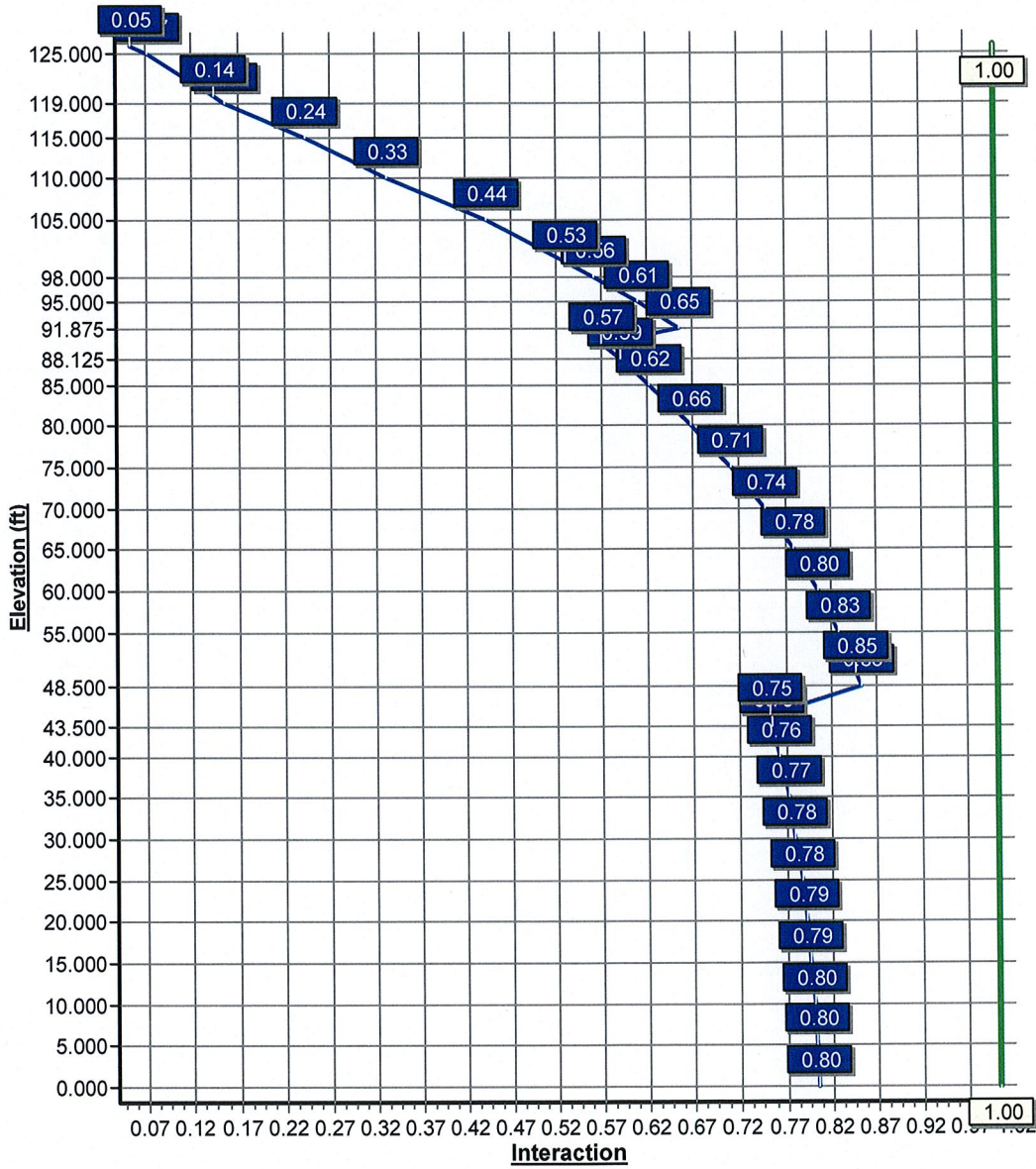
Reactions			
Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W	2301.94	24.63	31.52
0.9D + 1.6W	2214.61	23.45	23.63
1.2D + 1.0Di + 1.0Wi	442.49	4.74	52.34
1.0D + 1.0W	414.77	4.37	26.30



Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	0.00	0.000	0.000



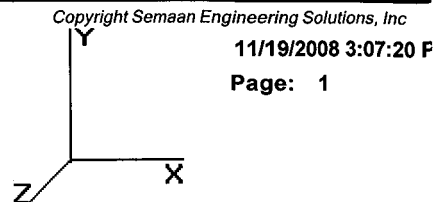
Load Case : 1.2D + 1.6W
Max Ratio 85.03% at 48.5ft



Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



Shaft Section Properties

Sect Num	Length (ft)	Thick (in)	Fv (ksi)	Joint Type	Slip Joint 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	48.500	0.3750	65		0.00	7,744	45.50	0.000	53.71	13817.4	19.98	121.3	34.09	48.50	40.14	5766.3	14.62	90.92	0.23512
2	48.375	0.3125	65	Slip Joint	60.00	4,881	35.89	43.50	35.29	5646.6	18.84	114.8	24.52	91.87	24.01	1778.4	12.43	78.47	0.23512
3	37.875	0.2500	65	Slip Joint	45.00	2,168	25.90	88.12	20.36	1692.8	16.86	103.6	17.00	126.0	13.29	471.1	10.58	68.00	0.23512
Shaft Weight						14,793													

Discrete Appurtenance Properties

Attach Elev (ft)	Description	Qty	Weight (lb)	No Ice CaAa (sf)	CaAa Factor	Weight (lb)	Ice CaAa (sf)	CaAa Factor	Distance From Face (ft)	Vert Ecc (ft)
126.0	72"x12" Panels	3	40.00	8.400	0.75	227.69	9.405	0.75	0.000	3.000
126.0	48"x12" Panels	9	30.00	5.600	0.75	160.52	6.034	0.75	0.000	3.000
126.0	Platform with Handrails	1	2000.00	33.750	1.00	3399.47	50.189	1.00	0.000	3.000
119.0	APX16PV-16PVL-A	6	40.00	6.650	0.75	165.53	7.090	0.75	0.000	0.000
119.0	Ericsson KRY 112 71	6	13.20	0.680	0.75	37.30	0.943	0.75	0.000	0.000
119.0	Andrew ETW200VS12UB	3	11.00	0.470	0.75	28.70	0.693	0.75	0.000	0.000
119.0	RFS APX16DWV-16DWVS-E-	3	41.00	7.230	0.75	175.47	7.683	0.75	0.000	0.000
119.0	Low Profile Platform	1	1500.00	20.000	1.00	2134.36	37.325	1.00	0.000	0.000
110.0	LGP-2140X	12	19.00	1.260	0.50	51.08	1.521	0.50	0.000	0.000
110.0	Kathrein 800 10122	6	61.70	7.610	0.75	237.47	8.864	0.75	0.000	0.000
110.0	Low Profile Platform	1	1500.00	20.000	1.00	2129.39	37.190	1.00	0.000	0.000
98.00	RCU	3	10.00	0.160	1.00	19.59	0.368	1.00	0.000	0.000
98.00	Kathrein 800 10504	3	17.60	3.606	1.00	98.79	4.521	1.00	0.000	0.000
98.00	Flush Mounts	3	60.00	2.000	1.00	160.35	4.007	1.00	0.000	0.000
80.00	BCD-87010	1	27.00	2.530	1.00	135.07	6.124	1.00	0.000	5.665
80.00	Pipe Mount	1	150.00	5.200	1.00	218.83	7.757	1.00	0.000	0.000
Totals		62	6903.20			10148.57			Number of Loadings : 16	

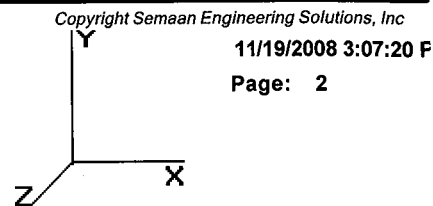
Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Exposed Width (in)	Exposed To Wind
0.00	126.00	(12) 1 5/8" Coax	0.00	N
0.00	119.00	(18) 1 5/8" Coax	0.00	N
0.00	110.00	(12) 1 5/8" Coax	3.96	Y
0.00	98.00	(6) 1 5/8" Coax	1.98	Y
0.00	98.00	(3) 3/8" Coax	0.00	Y
0.00	80.00	(1) 7/8" Coax	0.00	Y

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



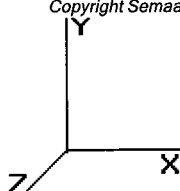
Segment Properties (Max Len : 5 ft)

Seq Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	S (in3)	Weight (lb)
0.00		0.3750	45.500	53.708	13,817.4	19.98	121.33	65.0	598.1	0.0
5.00		0.3750	44.324	52.309	12,765.4	19.43	118.20	65.0	567.2	901.9
10.00		0.3750	43.149	50.910	11,768.2	18.88	115.06	65.0	537.2	878.1
15.00		0.3750	41.973	49.510	10,824.3	18.33	111.93	65.0	507.9	854.3
20.00		0.3750	40.798	48.111	9,932.2	17.77	108.79	65.0	479.5	830.5
25.00		0.3750	39.622	46.712	9,090.6	17.22	105.66	65.0	451.9	806.7
30.00		0.3750	38.446	45.313	8,297.9	16.67	102.52	65.0	425.1	782.9
35.00		0.3750	37.271	43.914	7,552.7	16.11	99.39	65.0	399.1	759.0
40.00		0.3750	36.095	42.514	6,853.5	15.56	96.25	65.0	374.0	735.2
43.50	Bot - Section 2	0.3750	35.272	41.535	6,390.7	15.17	94.06	65.0	356.9	500.5
45.00		0.3750	34.920	41.115	6,198.9	15.01	93.12	65.0	349.6	390.2
48.50	Top - Section 1	0.3125	34.722	34.128	5,105.2	18.18	111.11	65.0	289.6	895.2
50.00		0.3125	34.369	33.779	4,949.8	17.98	109.98	65.0	283.7	173.3
55.00		0.3125	33.193	32.612	4,454.7	17.32	106.22	65.0	264.3	564.8
60.00		0.3125	32.018	31.446	3,993.8	16.66	102.46	65.0	245.7	544.9
65.00		0.3125	30.842	30.280	3,565.8	15.99	98.69	65.0	227.7	525.1
70.00		0.3125	29.667	29.114	3,169.5	15.33	94.93	65.0	210.4	505.3
75.00		0.3125	28.491	27.948	2,803.8	14.67	91.17	65.0	193.8	485.4
80.00		0.3125	27.315	26.782	2,467.3	14.00	87.41	65.0	177.9	465.6
85.00		0.3125	26.140	25.616	2,158.9	13.34	83.65	65.0	162.7	445.8
88.13	Bot - Section 3	0.3125	25.405	24.888	1,979.8	12.92	81.30	65.0	153.5	268.5
90.00		0.3125	24.964	24.450	1,877.3	12.68	79.89	65.0	148.1	286.2
91.88	Top - Section 2	0.2500	25.023	19.657	1,524.2	16.24	100.09	65.0	120.0	281.1
95.00		0.2500	24.288	19.074	1,392.5	15.72	97.15	65.0	112.9	205.9
98.00		0.2500	23.583	18.514	1,273.5	15.22	94.33	65.0	106.4	191.9
100.0		0.2500	23.113	18.141	1,198.1	14.89	92.45	65.0	102.1	124.7
105.0		0.2500	21.937	17.208	1,022.6	14.06	87.75	65.0	91.8	300.7
110.0		0.2500	20.762	16.275	865.1	13.23	83.05	65.0	82.1	284.8
115.0		0.2500	19.586	15.343	724.7	12.40	78.34	65.0	72.9	269.0
119.0		0.2500	18.646	14.596	624.1	11.74	74.58	65.0	65.9	203.8
120.0		0.2500	18.410	14.410	600.4	11.57	73.64	65.0	64.2	49.4
125.0		0.2500	17.235	13.477	491.2	10.75	68.94	65.0	56.1	237.2
126.0		0.2500	17.000	13.290	471.1	10.58	68.00	65.0	54.6	45.5
										14,793.2

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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 11/19/2008 3:07:20 P
 Page: 3



Load Case: 1.2D + 1.6W 110.00 mph with No Ice 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

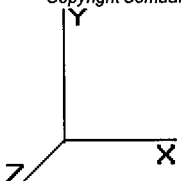
Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	20.599	22.65	354.34	0.650	0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	20.599	22.65	345.18	0.709 *	0.00	5.00	19.002	13.47	488.4	0.0	1,082.3
10.00		1.00	0.70	20.599	22.65	336.03	0.716 *	0.00	5.00	18.505	13.25	480.2	0.0	1,053.7
15.00		1.00	0.70	20.599	22.65	326.87	0.723 *	0.00	5.00	18.007	13.02	472.0	0.0	1,025.1
20.00		1.00	0.70	20.599	22.65	317.71	0.731 *	0.00	5.00	17.510	12.79	463.8	0.0	996.6
25.00		1.00	0.70	20.599	22.65	308.56	0.739 *	0.00	5.00	17.013	12.57	455.6	0.0	968.0
30.00		1.00	0.70	20.616	22.67	299.53	0.747 *	0.00	5.00	16.515	12.34	447.8	0.0	939.4
35.00		1.00	0.73	21.545	23.69	296.84	0.756 *	0.00	5.00	16.018	12.11	459.4	0.0	910.9
40.00		1.00	0.76	22.383	24.62	293.01	0.766 *	0.00	5.00	15.520	11.89	468.3	0.0	882.3
43.50	Bot - Section 2	1.00	0.77	22.925	25.21	289.78	0.775 *	0.00	3.50	10.568	8.19	330.3	0.0	600.6
45.00		1.00	0.78	23.149	25.46	288.28	0.780 *	0.00	1.50	4.534	3.54	144.1	0.0	468.2
48.50	Top - Section 1	1.00	0.80	23.649	26.01	284.51	0.786 *	0.00	3.50	10.405	8.17	340.2	0.0	1,074.2
50.00		1.00	0.81	23.856	26.24	288.03	0.785 *	0.00	1.50	4.385	3.44	144.6	0.0	208.0
55.00		1.00	0.83	24.515	26.96	282.00	0.793 *	0.00	5.00	14.293	11.33	488.8	0.0	677.7
60.00		1.00	0.85	25.132	27.64	275.41	0.805 *	0.00	5.00	13.795	11.10	491.1	0.0	653.9
65.00		1.00	0.87	25.713	28.28	268.35	0.818 *	0.00	5.00	13.298	10.88	492.2	0.0	630.1
70.00		1.00	0.89	26.263	28.89	260.87	0.832 *	0.00	5.00	12.800	10.65	492.3	0.0	606.3
75.00		1.00	0.91	26.786	29.46	253.01	1.200 *	0.00	5.00	12.303	14.76	696.0	0.0	582.5
80.00	Appertunance(s)	1.00	0.92	27.285	30.01	244.82	1.200 *	0.00	5.00	11.806	14.17	680.3	0.0	558.7
85.00		1.00	0.94	27.761	30.53	236.32	1.200 *	0.00	5.00	11.308	13.57	663.0	0.0	534.9
88.13	Bot - Section 3	1.00	0.95	28.049	30.85	230.86	1.200 *	0.00	3.13	6.815	8.18	403.7	0.0	322.2
90.00		1.00	0.95	28.219	31.04	227.54	1.200 *	0.00	1.88	4.075	4.89	242.9	0.0	343.4
91.88	Top - Section 2	1.00	0.96	28.385	31.22	224.18	1.200 *	0.00	1.88	4.005	4.81	240.1	0.0	337.4
95.00		1.00	0.97	28.658	31.52	223.10	1.200 *	0.00	3.13	6.520	7.82	394.6	0.0	247.1
98.00	Appertunance(s)	1.00	0.98	28.913	31.80	217.58	1.200 *	0.00	3.00	6.076	7.29	371.0	0.0	230.2
100.0		1.00	0.98	29.081	31.98	213.86	0.781 *	0.00	2.00	3.951	3.08	157.9	0.0	149.7
105.0		1.00	1.00	29.489	32.43	204.40	0.793 *	0.00	5.00	9.530	7.55	392.0	0.0	360.9
110.0	Appertunance(s)	1.00	1.01	29.884	32.87	194.74	0.811 *	0.00	5.00	9.033	7.33	385.4	0.0	341.8
115.0		1.00	1.02	30.266	33.29	184.88	0.650	0.00	5.00	8.535	5.55	295.5	0.0	322.8
119.0	Appertunance(s)	1.00	1.03	30.563	33.61	176.87	0.650	0.00	4.00	6.470	4.21	226.2	0.0	244.5
120.0		1.00	1.04	30.636	33.69	174.85	0.650	0.00	1.00	1.568	1.02	54.9	0.0	59.2
125.0		1.00	1.05	30.995	34.09	164.64	0.650	0.00	5.00	7.541	4.90	267.4	0.0	284.7
126.0	Appertunance(s)	1.00	1.05	31.066	34.17	162.58	0.650	0.00	1.00	1.448	0.94	51.5	0.0	54.7
* = Cf Adjusted By Linear Load Ra Effect								Totals:	126.00			12,181.8	0.0	17,751.9

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
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 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.6W 110.00 mph with No Ice 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

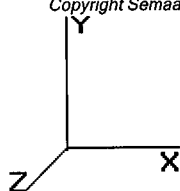
Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
80.00	BCD-87010	1	27.823	30.606	1.00	1.00	2.53	0.000	5.665	123.89	0.00	701.85	32.40
80.00	Pipe Mount	1	27.285	30.013	1.00	1.00	5.20	0.000	0.000	249.71	0.00	0.00	180.00
98.00	RCU	3	28.913	31.805	1.00	1.00	0.48	0.000	0.000	24.43	0.00	0.00	36.00
98.00	Kathrein 800 10504	3	28.913	31.805	1.00	1.00	10.82	0.000	0.000	550.55	0.00	0.00	63.36
98.00	Flush Mounts	3	28.913	31.805	0.75	0.75	4.50	0.000	0.000	228.99	0.00	0.00	216.00
110.0	LGP-2140X	12	29.884	32.872	0.40	0.80	6.05	0.000	0.000	318.10	0.00	0.00	273.60
110.0	Kathrein 800 10122	6	29.884	32.872	0.60	0.80	27.40	0.000	0.000	1,440.90	0.00	0.00	444.24
110.0	Low Profile Platform	1	29.884	32.872	1.00	1.00	20.00	0.000	0.000	1,051.91	0.00	0.00	1,800.00
119.0	APX16PV-16PVL-A	6	30.563	33.619	0.60	0.80	23.94	0.000	0.000	1,287.74	0.00	0.00	288.00
119.0	Ericsson KRY 112 71	6	30.563	33.619	0.75	1.00	3.06	0.000	0.000	164.60	0.00	0.00	95.04
119.0	Andrew	3	30.563	33.619	0.60	0.80	0.85	0.000	0.000	45.51	0.00	0.00	39.60
119.0	RFS APX16DWV-	3	30.563	33.619	0.60	0.80	13.01	0.000	0.000	700.03	0.00	0.00	147.60
119.0	Low Profile Platform	1	30.563	33.619	1.00	1.00	20.00	0.000	0.000	1,075.81	0.00	0.00	1,800.00
126.0	72"x12" Panels	3	31.276	34.403	0.60	0.80	15.12	0.000	3.000	832.28	0.00	2,496.84	144.00
126.0	48"x12" Panels	9	31.276	34.403	0.60	0.80	30.24	0.000	3.000	1,664.56	0.00	4,993.67	324.00
126.0	Platform with Handra	1	31.276	34.403	1.00	1.00	33.75	0.000	3.000	1,857.77	0.00	5,573.30	2,400.00
										11,616.76			8,283.84

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.6W 110.00 mph with No Ice 24 Iterations

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

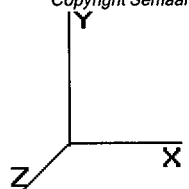
Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.130	1.091	0.00	59.03
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.130	1.091	0.00	29.52
5.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.130	1.091	0.00	1.44
5.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.130	1.091	0.00	1.98
10.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.134	1.101	0.00	59.03
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.134	1.101	0.00	29.52
10.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.134	1.101	0.00	1.44
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.134	1.101	0.00	1.98
15.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.137	1.112	0.00	59.03
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.137	1.112	0.00	29.52
15.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.137	1.112	0.00	1.44
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.137	1.112	0.00	1.98
20.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.141	1.124	0.00	59.03
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.141	1.124	0.00	29.52
20.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.141	1.124	0.00	1.44
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.141	1.124	0.00	1.98
25.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.145	1.136	0.00	59.03
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.145	1.136	0.00	29.52
25.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.145	1.136	0.00	1.44
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.145	1.136	0.00	1.98
30.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.616	0.150	1.150	0.00	59.03
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.616	0.150	1.150	0.00	29.52
30.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.150	1.150	0.00	1.44
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.150	1.150	0.00	1.98
35.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	21.545	0.155	1.164	0.00	59.03
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.545	0.155	1.164	0.00	29.52
35.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.155	1.164	0.00	1.44
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.155	1.164	0.00	1.98
40.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	22.383	0.159	1.178	0.00	59.03
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.383	0.159	1.178	0.00	29.52
40.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.159	1.178	0.00	1.44
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.159	1.178	0.00	1.98
43.50	(12) 1 5/8" Coax	Yes	3.50	0.000	3.96	1.15	0.00	22.925	0.164	1.192	0.00	41.32
43.50	(6) 1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	22.925	0.164	1.192	0.00	20.66
43.50	(3) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	22.925	0.164	1.192	0.00	1.01
43.50	(1) 7/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	22.925	0.164	1.192	0.00	1.39
45.00	(12) 1 5/8" Coax	Yes	1.50	0.000	3.96	0.50	0.00	23.149	0.167	1.200	0.00	17.71
45.00	(6) 1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	23.149	0.167	1.200	0.00	8.85
45.00	(3) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	23.149	0.167	1.200	0.00	0.43
45.00	(1) 7/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	23.149	0.167	1.200	0.00	0.59
48.50	(12) 1 5/8" Coax	Yes	3.50	0.000	3.96	1.15	0.00	23.649	0.170	1.209	0.00	41.32
48.50	(6) 1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	23.649	0.170	1.209	0.00	20.66
48.50	(3) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	23.649	0.170	1.209	0.00	1.01
48.50	(1) 7/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	23.649	0.170	1.209	0.00	1.39
50.00	(12) 1 5/8" Coax	Yes	1.50	0.000	3.96	0.50	0.00	23.856	0.169	1.208	0.00	17.71
50.00	(6) 1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	23.856	0.169	1.208	0.00	8.85
50.00	(3) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	23.856	0.169	1.208	0.00	0.43
50.00	(1) 7/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	23.856	0.169	1.208	0.00	0.59
55.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	24.515	0.173	1.219	0.00	59.03
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	24.515	0.173	1.219	0.00	29.52
55.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.173	1.219	0.00	1.44

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.6W 110.00 mph with No Ice 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.20

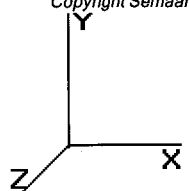
Wind Load Factor : 1.60

55.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.173	1.219	0.00	1.98
60.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	25.132	0.179	1.238	0.00	59.03
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.132	0.179	1.238	0.00	29.52
60.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.132	0.179	1.238	0.00	1.44
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.132	0.179	1.238	0.00	1.98
65.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	25.713	0.186	1.258	0.00	59.03
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.713	0.186	1.258	0.00	29.52
65.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.186	1.258	0.00	1.44
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.186	1.258	0.00	1.98
70.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.263	0.193	1.280	0.00	59.03
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.263	0.193	1.280	0.00	29.52
70.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.193	1.280	0.00	1.44
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.193	1.280	0.00	1.98
75.00	(12) 1 5/8" Coax	Yes	5.00	1.109	3.96	1.65	1.83	26.786	0.201	0.000	86.25	59.03
75.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	26.786	0.201	0.000	46.67	29.52
75.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.201	0.000	0.00	1.44
75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.201	0.000	0.00	1.98
80.00	(12) 1 5/8" Coax	Yes	5.00	1.099	3.96	1.65	1.81	27.285	0.210	0.000	87.05	59.03
80.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	27.285	0.210	0.000	47.54	29.52
80.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.210	0.000	0.00	1.44
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.210	0.000	0.00	1.98
85.00	(12) 1 5/8" Coax	Yes	5.00	1.089	3.96	1.65	1.80	27.761	0.219	0.000	87.80	59.03
85.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	27.761	0.219	0.000	48.37	29.52
85.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.761	0.219	0.000	0.00	1.44
88.13	(12) 1 5/8" Coax	Yes	3.13	1.084	3.96	1.03	1.12	28.049	0.227	0.000	55.16	36.90
88.13	(6) 1 5/8" Coax	Yes	3.13	1.200	1.98	0.52	0.62	28.049	0.227	0.000	30.55	18.45
88.13	(3) 3/8" Coax	Yes	3.13	0.000	0.00	0.00	0.00	28.049	0.227	0.000	0.00	0.90
90.00	(12) 1 5/8" Coax	Yes	1.88	1.080	3.96	0.62	0.67	28.219	0.232	0.000	33.20	22.14
90.00	(6) 1 5/8" Coax	Yes	1.88	1.200	1.98	0.31	0.37	28.219	0.232	0.000	18.44	11.07
90.00	(3) 3/8" Coax	Yes	1.88	0.000	0.00	0.00	0.00	28.219	0.232	0.000	0.00	0.54
91.88	(12) 1 5/8" Coax	Yes	1.88	1.077	3.96	0.62	0.67	28.385	0.236	0.000	33.29	22.14
91.88	(6) 1 5/8" Coax	Yes	1.88	1.200	1.98	0.31	0.37	28.385	0.236	0.000	18.55	11.07
91.88	(3) 3/8" Coax	Yes	1.88	0.000	0.00	0.00	0.00	28.385	0.236	0.000	0.00	0.54
95.00	(12) 1 5/8" Coax	Yes	3.13	1.072	3.96	1.03	1.11	28.658	0.237	0.000	55.76	36.90
95.00	(6) 1 5/8" Coax	Yes	3.13	1.200	1.98	0.52	0.62	28.658	0.237	0.000	31.21	18.45
95.00	(3) 3/8" Coax	Yes	3.13	0.000	0.00	0.00	0.00	28.658	0.237	0.000	0.00	0.90
98.00	(12) 1 5/8" Coax	Yes	3.00	1.067	3.96	0.99	1.06	28.913	0.244	0.000	53.76	35.42
98.00	(6) 1 5/8" Coax	Yes	3.00	1.200	1.98	0.50	0.59	28.913	0.244	0.000	30.23	17.71
98.00	(3) 3/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	28.913	0.244	0.000	0.00	0.86
100.0	(12) 1 5/8" Coax	Yes	2.00	0.000	3.96	0.66	0.00	29.081	0.167	1.201	0.00	23.61
105.0	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	29.489	0.173	1.219	0.00	59.03
110.0	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	29.884	0.183	1.248	0.00	59.03
Totals:											763.82	1,937.11

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.6W 110.00 mph with No Ice 24 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

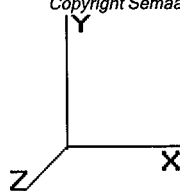
Applied Segment Forces Summary

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	488.43	1,321.81	0.00	0.00
10.00	480.22	1,293.24	0.00	0.00
15.00	472.02	1,264.67	0.00	0.00
20.00	463.81	1,236.10	0.00	0.00
25.00	455.61	1,207.54	0.00	0.00
30.00	447.78	1,178.97	0.00	0.00
35.00	459.36	1,150.40	0.00	0.00
40.00	468.31	1,121.83	0.00	0.00
43.50	330.33	768.29	0.00	0.00
45.00	144.09	540.09	0.00	0.00
48.50	340.22	1,241.87	0.00	0.00
50.00	144.56	279.83	0.00	0.00
55.00	488.81	917.29	0.00	0.00
60.00	491.11	893.48	0.00	0.00
65.00	492.23	869.68	0.00	0.00
70.00	492.30	845.87	0.00	0.00
75.00	828.93	822.07	0.00	0.00
80.00	1,188.49	1,010.66	0.00	701.85
85.00	799.20	772.47	0.00	0.00
88.13	489.43	470.71	0.00	0.00
90.00	294.50	432.48	0.00	0.00
91.88	291.95	426.45	0.00	0.00
95.00	481.58	395.59	0.00	0.00
98.00	1,259.01	688.13	0.00	0.00
100.0	157.89	232.32	0.00	0.00
105.0	392.05	567.47	0.00	0.00
110.0	3,196.29	3,066.27	0.00	0.00
115.0	295.53	470.35	0.00	0.00
119.0	3,499.91	2,732.81	0.00	0.00
120.0	54.95	71.03	0.00	0.00
125.0	267.38	343.71	0.00	0.00
126.0	4,406.08	2,934.46	0.00	13,063.81
Totals:	24,562.36	31,567.93	0.00	13,765.66

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.6W 110.00 mph with No Ice 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

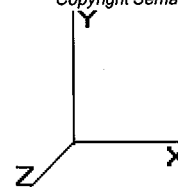
Calculated Forces

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-31.52	-24.63	0.00	-2,301.94	0.00	2,301.94	3,141.92	1,570.96	5,823.14	2,915.90	0.00	0.00	0.800
5.00	-30.10	-24.26	0.00	-2,178.81	0.00	2,178.81	3,060.07	1,530.03	5,522.46	2,765.33	0.12	-0.23	0.798
10.00	-28.71	-23.89	0.00	-2,057.52	0.00	2,057.52	2,978.22	1,489.11	5,229.75	2,618.76	0.49	-0.47	0.796
15.00	-27.35	-23.52	0.00	-1,938.07	0.00	1,938.07	2,896.36	1,448.18	4,945.02	2,476.18	1.11	-0.71	0.792
20.00	-26.02	-23.15	0.00	-1,820.46	0.00	1,820.46	2,814.51	1,407.25	4,668.25	2,337.59	1.98	-0.96	0.788
25.00	-24.72	-22.79	0.00	-1,704.69	0.00	1,704.69	2,732.65	1,366.33	4,399.45	2,203.00	3.12	-1.21	0.783
30.00	-23.45	-22.42	0.00	-1,590.76	0.00	1,590.76	2,650.80	1,325.40	4,138.63	2,072.39	4.52	-1.47	0.777
35.00	-22.21	-22.03	0.00	-1,478.68	0.00	1,478.68	2,568.94	1,284.47	3,885.77	1,945.78	6.20	-1.73	0.769
40.00	-21.02	-21.61	0.00	-1,368.53	0.00	1,368.53	2,487.09	1,243.55	3,640.89	1,823.15	8.15	-2.00	0.759
43.50	-20.21	-21.30	0.00	-1,292.90	0.00	1,292.90	2,429.79	1,214.90	3,474.21	1,739.69	9.69	-2.19	0.752
45.00	-19.62	-21.18	0.00	-1,260.95	0.00	1,260.95	2,405.24	1,202.62	3,403.97	1,704.52	10.39	-2.28	0.748
48.50	-18.35	-20.84	0.00	-1,186.81	0.00	1,186.81	1,996.51	998.25	2,819.39	1,411.79	12.13	-2.47	0.850
50.00	-18.00	-20.75	0.00	-1,155.55	0.00	1,155.55	1,976.04	988.02	2,761.64	1,382.87	12.92	-2.56	0.845
55.00	-16.99	-20.31	0.00	-1,051.82	0.00	1,051.82	1,907.83	953.92	2,573.43	1,288.63	15.77	-2.88	0.826
60.00	-16.02	-19.86	0.00	-950.28	0.00	950.28	1,839.62	919.81	2,391.87	1,197.71	18.96	-3.20	0.803
65.00	-15.07	-19.40	0.00	-850.98	0.00	850.98	1,771.41	885.70	2,216.95	1,110.12	22.47	-3.52	0.776
70.00	-14.15	-18.94	0.00	-753.97	0.00	753.97	1,703.20	851.60	2,048.67	1,025.86	26.33	-3.84	0.744
75.00	-13.29	-18.13	0.00	-659.29	0.00	659.29	1,634.98	817.49	1,887.03	944.92	30.51	-4.15	0.706
80.00	-12.28	-16.93	0.00	-567.96	0.00	567.96	1,566.77	783.39	1,732.03	867.30	35.03	-4.46	0.663
85.00	-11.51	-16.12	0.00	-483.31	0.00	483.31	1,498.56	749.28	1,583.67	793.01	39.86	-4.77	0.618
88.13	-11.04	-15.62	0.00	-432.94	0.00	432.94	1,455.93	727.96	1,494.33	748.27	43.04	-4.96	0.587
90.00	-10.60	-15.31	0.00	-403.65	0.00	403.65	1,430.35	715.17	1,441.96	722.05	45.01	-5.07	0.567
91.88	-10.17	-15.01	0.00	-374.94	0.00	374.94	1,149.93	574.96	1,167.96	584.85	47.02	-5.18	0.651
95.00	-9.77	-14.52	0.00	-328.04	0.00	328.04	1,115.82	557.91	1,099.37	550.50	50.47	-5.36	0.605
98.00	-9.17	-13.23	0.00	-284.47	0.00	284.47	1,083.08	541.54	1,035.48	518.51	53.89	-5.54	0.558
100.00	-8.91	-13.08	0.00	-258.01	0.00	258.01	1,061.25	530.62	993.95	497.71	56.24	-5.66	0.527
105.00	-8.33	-12.67	0.00	-192.61	0.00	192.61	1,006.68	503.34	893.83	447.58	62.31	-5.93	0.439
110.00	-5.59	-9.19	0.00	-129.27	0.00	129.27	952.11	476.06	799.03	400.11	68.64	-6.16	0.329
115.00	-5.13	-8.85	0.00	-83.34	0.00	83.34	897.54	448.77	709.55	355.30	75.17	-6.33	0.241
119.00	-2.80	-5.07	0.00	-47.92	0.00	47.92	853.89	426.94	641.78	321.37	80.51	-6.43	0.153
120.00	-2.73	-5.01	0.00	-42.85	0.00	42.85	842.97	421.49	625.37	313.15	81.86	-6.45	0.140
125.00	-2.41	-4.71	0.00	-17.78	0.00	17.78	788.40	394.20	546.51	273.66	88.65	-6.53	0.068
126.00	0.00	-4.41	0.00	-13.06	0.00	13.06	777.49	388.74	531.38	266.08	90.01	-6.54	0.049

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 24 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)

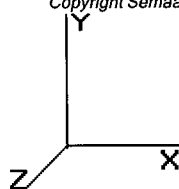
Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	20.599	22.65	354.34	0.650	0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	20.599	22.65	345.18	0.650 *	0.00	5.00	19.002	12.35	447.8	0.0	811.7
10.00		1.00	0.70	20.599	22.65	336.03	0.650 *	0.00	5.00	18.505	12.03	436.1	0.0	790.3
15.00		1.00	0.70	20.599	22.65	326.87	0.650 *	0.00	5.00	18.007	11.70	424.3	0.0	768.8
20.00		1.00	0.70	20.599	22.65	317.71	0.650 *	0.00	5.00	17.510	11.38	412.6	0.0	747.4
25.00		1.00	0.70	20.599	22.65	308.56	0.650 *	0.00	5.00	17.013	11.06	400.9	0.0	726.0
30.00		1.00	0.70	20.616	22.67	299.53	0.650 *	0.00	5.00	16.515	10.73	389.5	0.0	704.6
35.00		1.00	0.73	21.545	23.69	296.84	0.650 *	0.00	5.00	16.018	10.41	394.8	0.0	683.1
40.00		1.00	0.76	22.383	24.62	293.01	0.650 *	0.00	5.00	15.520	10.09	397.4	0.0	661.7
43.50	Bot - Section 2	1.00	0.77	22.925	25.21	289.78	0.650 *	0.00	3.50	10.568	6.87	277.2	0.0	450.5
45.00		1.00	0.78	23.149	25.46	288.28	0.650 *	0.00	1.50	4.534	2.95	120.1	0.0	351.2
48.50	Top - Section 1	1.00	0.80	23.649	26.01	284.51	0.650 *	0.00	3.50	10.405	6.76	281.5	0.0	805.6
50.00		1.00	0.81	23.856	26.24	288.03	0.650 *	0.00	1.50	4.385	2.85	119.7	0.0	156.0
55.00		1.00	0.83	24.515	26.96	282.00	0.650 *	0.00	5.00	14.293	9.29	400.8	0.0	508.3
60.00		1.00	0.85	25.132	27.64	275.41	0.650 *	0.00	5.00	13.795	8.97	396.6	0.0	490.5
65.00		1.00	0.87	25.713	28.28	268.35	0.650 *	0.00	5.00	13.298	8.64	391.2	0.0	472.6
70.00		1.00	0.89	26.263	28.89	260.87	0.650 *	0.00	5.00	12.800	8.32	384.6	0.0	454.7
75.00		1.00	0.91	26.786	29.46	253.01	1.200 *	0.00	5.00	12.303	14.76	696.0	0.0	436.9
80.00	Appertunance(s)	1.00	0.92	27.285	30.01	244.82	1.200 *	0.00	5.00	11.806	14.17	680.3	0.0	419.0
85.00		1.00	0.94	27.761	30.53	236.32	1.200 *	0.00	5.00	11.308	13.57	663.0	0.0	401.2
88.13	Bot - Section 3	1.00	0.95	28.049	30.85	230.86	1.200 *	0.00	3.13	6.815	8.18	403.7	0.0	241.7
90.00		1.00	0.95	28.219	31.04	227.54	1.200 *	0.00	1.88	4.075	4.89	242.9	0.0	257.5
91.88	Top - Section 2	1.00	0.96	28.385	31.22	224.18	1.200 *	0.00	1.88	4.005	4.81	240.1	0.0	253.0
95.00		1.00	0.97	28.658	31.52	223.10	1.200 *	0.00	3.13	6.520	7.82	394.6	0.0	185.3
98.00	Appertunance(s)	1.00	0.98	28.913	31.80	217.58	1.200 *	0.00	3.00	6.076	7.29	371.0	0.0	172.7
100.0		1.00	0.98	29.081	31.98	213.86	0.650 *	0.00	2.00	3.951	2.57	131.5	0.0	112.3
105.0		1.00	1.00	29.489	32.43	204.40	0.650 *	0.00	5.00	9.530	6.19	321.5	0.0	270.6
110.0	Appertunance(s)	1.00	1.01	29.884	32.87	194.74	0.650 *	0.00	5.00	9.033	5.87	308.8	0.0	256.4
115.0		1.00	1.02	30.266	33.29	184.88	0.650 *	0.00	5.00	8.535	5.55	295.5	0.0	242.1
119.0	Appertunance(s)	1.00	1.03	30.563	33.61	176.87	0.650 *	0.00	4.00	6.470	4.21	226.2	0.0	183.4
120.0		1.00	1.04	30.636	33.69	174.85	0.650 *	0.00	1.00	1.568	1.02	54.9	0.0	44.4
125.0		1.00	1.05	30.995	34.09	164.64	0.650 *	0.00	5.00	7.541	4.90	267.4	0.0	213.5
126.0	Appertunance(s)	1.00	1.05	31.066	34.17	162.58	0.650 *	0.00	1.00	1.448	0.94	51.5	0.0	41.0
								Totals:	126.00			11,024.1	0.0	13,313.9

* = Cf Adjusted By Linear Load Ra Effect

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

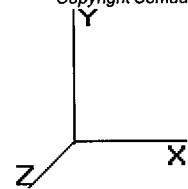
Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
80.00	BCD-87010	1	27.823	30.606	1.00	1.00	2.53	0.000	5.665	123.89	0.00	701.85	24.30
80.00	Pipe Mount	1	27.285	30.013	1.00	1.00	5.20	0.000	0.000	249.71	0.00	0.00	135.00
98.00	RCU	3	28.913	31.805	1.00	1.00	0.48	0.000	0.000	24.43	0.00	0.00	27.00
98.00	Kathrein 800 10504	3	28.913	31.805	1.00	1.00	10.82	0.000	0.000	550.55	0.00	0.00	47.52
98.00	Flush Mounts	3	28.913	31.805	0.75	0.75	4.50	0.000	0.000	228.99	0.00	0.00	162.00
110.0	LGP-2140X	12	29.884	32.872	0.40	0.80	6.05	0.000	0.000	318.10	0.00	0.00	205.20
110.0	Kathrein 800 10122	6	29.884	32.872	0.60	0.80	27.40	0.000	0.000	1,440.90	0.00	0.00	333.18
110.0	Low Profile Platform	1	29.884	32.872	1.00	1.00	20.00	0.000	0.000	1,051.91	0.00	0.00	1,350.00
119.0	APX16PV-16PVL-A	6	30.563	33.619	0.60	0.80	23.94	0.000	0.000	1,287.74	0.00	0.00	216.00
119.0	Ericsson KRY 112 71	6	30.563	33.619	0.75	1.00	3.06	0.000	0.000	164.60	0.00	0.00	71.28
119.0	Andrew	3	30.563	33.619	0.60	0.80	0.85	0.000	0.000	45.51	0.00	0.00	29.70
119.0	RFS APX16DWW-	3	30.563	33.619	0.60	0.80	13.01	0.000	0.000	700.03	0.00	0.00	110.70
119.0	Low Profile Platform	1	30.563	33.619	1.00	1.00	20.00	0.000	0.000	1,075.81	0.00	0.00	1,350.00
126.0	72"x12" Panels	3	31.276	34.403	0.60	0.80	15.12	0.000	3.000	832.28	0.00	2,496.84	108.00
126.0	48"x12" Panels	9	31.276	34.403	0.60	0.80	30.24	0.000	3.000	1,664.56	0.00	4,993.67	243.00
126.0	Platform with Handra	1	31.276	34.403	1.00	1.00	33.75	0.000	3.000	1,857.77	0.00	5,573.30	1,800.00
										11,616.76			6,212.88

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 24 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

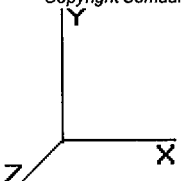
Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.130	1.091	0.00	44.27
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.130	1.091	0.00	22.14
5.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.130	1.091	0.00	1.08
5.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.130	1.091	0.00	1.49
10.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.134	1.101	0.00	44.27
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.134	1.101	0.00	22.14
10.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.134	1.101	0.00	1.08
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.134	1.101	0.00	1.49
15.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.137	1.112	0.00	44.27
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.137	1.112	0.00	22.14
15.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.137	1.112	0.00	1.08
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.137	1.112	0.00	1.49
20.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.141	1.124	0.00	44.27
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.141	1.124	0.00	22.14
20.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.141	1.124	0.00	1.08
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.141	1.124	0.00	1.49
25.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.599	0.145	1.136	0.00	44.27
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.599	0.145	1.136	0.00	22.14
25.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.145	1.136	0.00	1.08
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.599	0.145	1.136	0.00	1.49
30.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	20.616	0.150	1.150	0.00	44.27
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	20.616	0.150	1.150	0.00	22.14
30.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.150	1.150	0.00	1.08
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	20.616	0.150	1.150	0.00	1.49
35.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	21.545	0.155	1.164	0.00	44.27
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	21.545	0.155	1.164	0.00	22.14
35.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.155	1.164	0.00	1.08
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	21.545	0.155	1.164	0.00	1.49
40.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	22.383	0.159	1.178	0.00	44.27
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	22.383	0.159	1.178	0.00	22.14
40.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.159	1.178	0.00	1.08
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	22.383	0.159	1.178	0.00	1.49
43.50	(12) 1 5/8" Coax	Yes	3.50	0.000	3.96	1.15	0.00	22.925	0.164	1.192	0.00	30.99
43.50	(6) 1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	22.925	0.164	1.192	0.00	15.50
43.50	(3) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	22.925	0.164	1.192	0.00	0.76
43.50	(1) 7/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	22.925	0.164	1.192	0.00	1.04
45.00	(12) 1 5/8" Coax	Yes	1.50	0.000	3.96	0.50	0.00	23.149	0.167	1.200	0.00	13.28
45.00	(6) 1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	23.149	0.167	1.200	0.00	6.64
45.00	(3) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	23.149	0.167	1.200	0.00	0.32
45.00	(1) 7/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	23.149	0.167	1.200	0.00	0.45
48.50	(12) 1 5/8" Coax	Yes	3.50	0.000	3.96	1.15	0.00	23.649	0.170	1.209	0.00	30.99
48.50	(6) 1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	23.649	0.170	1.209	0.00	15.50
48.50	(3) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	23.649	0.170	1.209	0.00	0.76
48.50	(1) 7/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	23.649	0.170	1.209	0.00	1.04
50.00	(12) 1 5/8" Coax	Yes	1.50	0.000	3.96	0.50	0.00	23.856	0.169	1.208	0.00	13.28
50.00	(6) 1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	23.856	0.169	1.208	0.00	6.64
50.00	(3) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	23.856	0.169	1.208	0.00	0.32
50.00	(1) 7/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	23.856	0.169	1.208	0.00	0.45
55.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	24.515	0.173	1.219	0.00	44.27
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	24.515	0.173	1.219	0.00	22.14
55.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.173	1.219	0.00	1.08

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

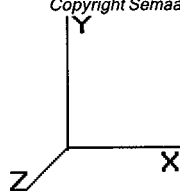
Wind Load Factor : 1.60

55.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	24.515	0.173	1.219	0.00	1.49
60.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	25.132	0.179	1.238	0.00	44.27
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.132	0.179	1.238	0.00	22.14
60.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.132	0.179	1.238	0.00	1.08
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.132	0.179	1.238	0.00	1.49
65.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	25.713	0.186	1.258	0.00	44.27
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	25.713	0.186	1.258	0.00	22.14
65.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.186	1.258	0.00	1.08
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	25.713	0.186	1.258	0.00	1.49
70.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	26.263	0.193	1.280	0.00	44.27
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	26.263	0.193	1.280	0.00	22.14
70.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.193	1.280	0.00	1.08
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.263	0.193	1.280	0.00	1.49
75.00	(12) 1 5/8" Coax	Yes	5.00	1.109	3.96	1.65	1.83	26.786	0.201	0.000	86.25	44.27
75.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	26.786	0.201	0.000	46.67	22.14
75.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.201	0.000	0.00	1.08
75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	26.786	0.201	0.000	0.00	1.49
80.00	(12) 1 5/8" Coax	Yes	5.00	1.099	3.96	1.65	1.81	27.285	0.210	0.000	87.05	44.27
80.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	27.285	0.210	0.000	47.54	22.14
80.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.210	0.000	0.00	1.08
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.285	0.210	0.000	0.00	1.49
85.00	(12) 1 5/8" Coax	Yes	5.00	1.089	3.96	1.65	1.80	27.761	0.219	0.000	87.80	44.27
85.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	27.761	0.219	0.000	48.37	22.14
85.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	27.761	0.219	0.000	0.00	1.08
88.13	(12) 1 5/8" Coax	Yes	3.13	1.084	3.96	1.03	1.12	28.049	0.227	0.000	55.16	27.67
88.13	(6) 1 5/8" Coax	Yes	3.13	1.200	1.98	0.52	0.62	28.049	0.227	0.000	30.55	13.84
88.13	(3) 3/8" Coax	Yes	3.13	0.000	0.00	0.00	0.00	28.049	0.227	0.000	0.00	0.67
90.00	(12) 1 5/8" Coax	Yes	1.88	1.080	3.96	0.62	0.67	28.219	0.232	0.000	33.20	16.60
90.00	(6) 1 5/8" Coax	Yes	1.88	1.200	1.98	0.31	0.37	28.219	0.232	0.000	18.44	8.30
90.00	(3) 3/8" Coax	Yes	1.88	0.000	0.00	0.00	0.00	28.219	0.232	0.000	0.00	0.40
91.88	(12) 1 5/8" Coax	Yes	1.88	1.077	3.96	0.62	0.67	28.385	0.236	0.000	33.29	16.60
91.88	(6) 1 5/8" Coax	Yes	1.88	1.200	1.98	0.31	0.37	28.385	0.236	0.000	18.55	8.30
91.88	(3) 3/8" Coax	Yes	1.88	0.000	0.00	0.00	0.00	28.385	0.236	0.000	0.00	0.40
95.00	(12) 1 5/8" Coax	Yes	3.13	1.072	3.96	1.03	1.11	28.658	0.237	0.000	55.76	27.67
95.00	(6) 1 5/8" Coax	Yes	3.13	1.200	1.98	0.52	0.62	28.658	0.237	0.000	31.21	13.84
95.00	(3) 3/8" Coax	Yes	3.13	0.000	0.00	0.00	0.00	28.658	0.237	0.000	0.00	0.67
98.00	(12) 1 5/8" Coax	Yes	3.00	1.067	3.96	0.99	1.06	28.913	0.244	0.000	53.76	26.56
98.00	(6) 1 5/8" Coax	Yes	3.00	1.200	1.98	0.50	0.59	28.913	0.244	0.000	30.23	13.28
98.00	(3) 3/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	28.913	0.244	0.000	0.00	0.65
100.0	(12) 1 5/8" Coax	Yes	2.00	0.000	3.96	0.66	0.00	29.081	0.167	1.201	0.00	17.71
105.0	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	29.489	0.173	1.219	0.00	44.27
110.0	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	29.884	0.183	1.248	0.00	44.27
Totals:											763.82	1,452.83

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 24 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

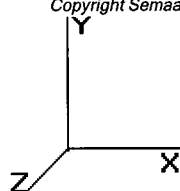
Seg Elev (ft)	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00	0.00	0.00	0.00	0.00
5.00	447.79	991.35	0.00	0.00
10.00	436.07	969.93	0.00	0.00
15.00	424.35	948.50	0.00	0.00
20.00	412.63	927.08	0.00	0.00
25.00	400.91	905.65	0.00	0.00
30.00	389.51	884.23	0.00	0.00
35.00	394.79	862.80	0.00	0.00
40.00	397.41	841.38	0.00	0.00
43.50	277.17	576.22	0.00	0.00
45.00	120.07	405.07	0.00	0.00
48.50	281.51	931.40	0.00	0.00
50.00	119.67	209.87	0.00	0.00
55.00	400.83	687.97	0.00	0.00
60.00	396.62	670.11	0.00	0.00
65.00	391.17	652.26	0.00	0.00
70.00	384.59	634.40	0.00	0.00
75.00	828.93	616.55	0.00	0.00
80.00	1,188.49	758.00	0.00	701.85
85.00	799.20	579.36	0.00	0.00
88.13	489.43	353.03	0.00	0.00
90.00	294.50	324.36	0.00	0.00
91.88	291.95	319.84	0.00	0.00
95.00	481.58	296.69	0.00	0.00
98.00	1,259.01	516.10	0.00	0.00
100.0	131.46	174.24	0.00	0.00
105.0	321.51	425.60	0.00	0.00
110.0	3,119.71	2,299.70	0.00	0.00
115.0	295.53	352.76	0.00	0.00
119.0	3,499.91	2,049.60	0.00	0.00
120.0	54.95	53.27	0.00	0.00
125.0	267.38	257.78	0.00	0.00
126.0	4,406.08	2,200.84	0.00	13,063.81
Totals:	23,404.71	23,675.94	0.00	13,765.66

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 0.9D + 1.6W 110.00 mph with No Ice (Reduced DL) 24 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

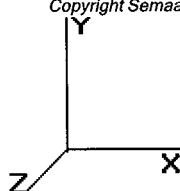
Calculated Forces

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	-23.63	-23.45	0.00	-2,214.61	0.00	2,214.61	3,141.92	1,570.96	5,823.14	2,915.90	0.00	0.00	0.767
5.00	-22.55	-23.09	0.00	-2,097.36	0.00	2,097.36	3,060.07	1,530.03	5,522.46	2,765.33	0.12	-0.22	0.766
10.00	-21.49	-22.73	0.00	-1,981.91	0.00	1,981.91	2,978.22	1,489.11	5,229.75	2,618.76	0.47	-0.45	0.764
15.00	-20.45	-22.39	0.00	-1,868.24	0.00	1,868.24	2,896.36	1,448.18	4,945.02	2,476.18	1.07	-0.68	0.762
20.00	-19.44	-22.04	0.00	-1,756.31	0.00	1,756.31	2,814.51	1,407.25	4,668.25	2,337.59	1.91	-0.92	0.758
25.00	-18.45	-21.70	0.00	-1,646.11	0.00	1,646.11	2,732.65	1,366.33	4,399.45	2,203.00	3.01	-1.16	0.754
30.00	-17.48	-21.37	0.00	-1,537.59	0.00	1,537.59	2,650.80	1,325.40	4,138.63	2,072.39	4.36	-1.41	0.749
35.00	-16.53	-21.03	0.00	-1,430.73	0.00	1,430.73	2,568.94	1,284.47	3,885.77	1,945.78	5.97	-1.67	0.742
40.00	-15.63	-20.67	0.00	-1,325.59	0.00	1,325.59	2,487.09	1,243.55	3,640.89	1,823.15	7.86	-1.93	0.734
43.50	-15.01	-20.40	0.00	-1,253.26	0.00	1,253.26	2,429.79	1,214.90	3,474.21	1,739.69	9.34	-2.11	0.727
45.00	-14.56	-20.30	0.00	-1,222.66	0.00	1,222.66	2,405.24	1,202.62	3,403.97	1,704.52	10.02	-2.20	0.724
48.50	-13.60	-20.02	0.00	-1,151.60	0.00	1,151.60	1,996.51	998.25	2,819.39	1,411.79	11.70	-2.39	0.823
50.00	-13.32	-19.93	0.00	-1,121.57	0.00	1,121.57	1,976.04	988.02	2,761.64	1,382.87	12.47	-2.47	0.818
55.00	-12.55	-19.57	0.00	-1,021.90	0.00	1,021.90	1,907.83	953.92	2,573.43	1,288.63	15.22	-2.78	0.800
60.00	-11.79	-19.20	0.00	-924.05	0.00	924.05	1,839.62	919.81	2,391.87	1,197.71	18.30	-3.09	0.778
65.00	-11.06	-18.84	0.00	-828.02	0.00	828.02	1,771.41	885.70	2,216.95	1,110.12	21.70	-3.40	0.753
70.00	-10.35	-18.47	0.00	-733.84	0.00	733.84	1,703.20	851.60	2,048.67	1,025.86	25.43	-3.71	0.722
75.00	-9.70	-17.65	0.00	-641.48	0.00	641.48	1,634.98	817.49	1,887.03	944.92	29.48	-4.02	0.685
80.00	-8.94	-16.46	0.00	-552.51	0.00	552.51	1,566.77	783.39	1,732.03	867.30	33.86	-4.33	0.643
85.00	-8.37	-15.65	0.00	-470.20	0.00	470.20	1,498.56	749.28	1,583.67	793.01	38.54	-4.62	0.599
88.13	-8.02	-15.16	0.00	-421.29	0.00	421.29	1,455.93	727.96	1,494.33	748.27	41.63	-4.80	0.569
90.00	-7.69	-14.85	0.00	-392.87	0.00	392.87	1,430.35	715.17	1,441.96	722.05	43.53	-4.91	0.550
91.88	-7.36	-14.55	0.00	-365.02	0.00	365.02	1,149.93	574.96	1,167.96	584.85	45.48	-5.02	0.631
95.00	-7.06	-14.07	0.00	-319.55	0.00	319.55	1,115.82	557.91	1,099.37	550.50	48.82	-5.19	0.587
98.00	-6.63	-12.78	0.00	-277.36	0.00	277.36	1,083.08	541.54	1,035.48	518.51	52.14	-5.38	0.542
100.00	-6.43	-12.66	0.00	-251.79	0.00	251.79	1,061.25	530.62	993.95	497.71	54.42	-5.49	0.513
105.00	-5.98	-12.32	0.00	-188.51	0.00	188.51	1,006.68	503.34	893.83	447.58	60.31	-5.76	0.428
110.00	-3.99	-9.00	0.00	-126.90	0.00	126.90	952.11	476.06	799.03	400.11	66.45	-5.97	0.322
115.00	-3.65	-8.67	0.00	-81.93	0.00	81.93	897.54	448.77	709.55	355.30	72.79	-6.15	0.235
119.00	-1.98	-4.97	0.00	-47.24	0.00	47.24	853.89	426.94	641.78	321.37	77.98	-6.25	0.149
120.00	-1.93	-4.92	0.00	-42.26	0.00	42.26	842.97	421.49	625.37	313.15	79.29	-6.27	0.137
125.00	-1.70	-4.62	0.00	-17.69	0.00	17.69	788.40	394.20	546.51	273.66	85.88	-6.34	0.067
126.00	0.00	-4.41	0.00	-13.06	0.00	13.06	777.49	388.74	531.38	266.08	87.21	-6.35	0.049

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 23 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

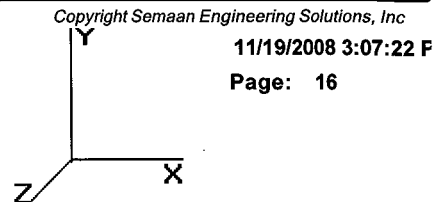
Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (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	0.00	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 *	1.24	5.00	20.037	24.04	112.6	354.5	1,436.8
10.00		1.00	0.70	4.256	4.682	0.000	1.200 *	1.33	5.00	19.614	23.54	110.2	370.9	1,424.6
15.00		1.00	0.70	4.256	4.682	0.000	1.200 *	1.38	5.00	19.163	23.00	107.7	376.5	1,401.6
20.00		1.00	0.70	4.256	4.682	0.000	1.200 *	1.42	5.00	18.699	22.44	105.0	377.3	1,373.9
25.00		1.00	0.70	4.256	4.682	0.000	1.200 *	1.45	5.00	18.228	21.87	102.4	375.4	1,343.4
30.00		1.00	0.70	4.260	4.686	0.000	1.200 *	1.48	5.00	17.753	21.30	99.8	371.6	1,311.0
35.00		1.00	0.73	4.451	4.897	0.000	1.200 *	1.50	5.00	17.275	20.73	101.5	366.5	1,277.3
40.00		1.00	0.76	4.625	5.087	0.000	1.200 *	1.52	5.00	16.795	20.15	102.5	360.3	1,242.6
43.50	Bot - Section 2	1.00	0.77	4.737	5.210	0.000	1.200 *	1.54	3.50	11.468	13.76	71.7	248.9	849.5
45.00		1.00	0.78	4.783	5.261	0.000	1.200 *	1.54	1.50	4.921	5.90	31.1	107.8	576.0
48.50	Top - Section 1	1.00	0.80	4.886	5.375	0.000	1.200 *	1.55	3.50	11.315	13.58	73.0	247.9	1,322.1
50.00		1.00	0.81	4.929	5.422	0.000	1.200 *	1.56	1.50	4.776	5.73	31.1	105.6	313.5
55.00		1.00	0.83	5.065	5.572	0.000	1.200 *	1.57	5.00	15.608	18.73	104.4	343.7	1,021.5
60.00		1.00	0.85	5.193	5.712	0.000	1.200 *	1.59	5.00	15.122	18.15	103.6	335.2	989.1
65.00		1.00	0.87	5.313	5.844	0.000	1.200 *	1.60	5.00	14.635	17.56	102.6	326.2	956.3
70.00		1.00	0.89	5.426	5.969	0.000	1.200 *	1.61	5.00	14.148	16.98	101.3	316.8	923.1
75.00		1.00	0.91	5.534	6.088	0.000	1.200 *	1.62	5.00	13.660	16.39	99.8	307.1	889.6
80.00	Appertunance(s)	1.00	0.92	5.637	6.201	0.000	1.200 *	1.63	5.00	13.171	15.81	98.0	297.1	855.8
85.00		1.00	0.94	5.736	6.309	0.000	1.200 *	1.64	5.00	12.682	15.22	96.0	286.9	821.8
88.13	Bot - Section 3	1.00	0.95	5.795	6.375	0.000	1.200 *	1.65	3.13	7.677	9.21	58.7	175.2	497.4
90.00		1.00	0.95	5.830	6.413	0.000	1.200 *	1.65	1.88	4.593	5.51	35.4	105.6	449.0
91.88	Top - Section 2	1.00	0.96	5.865	6.451	0.000	1.200 *	1.66	1.88	4.524	5.43	35.0	104.1	441.5
95.00		1.00	0.97	5.921	6.513	0.000	1.200 *	1.66	3.13	7.388	8.87	57.7	169.3	416.4
98.00	Appertunance(s)	1.00	0.98	5.974	6.571	0.000	1.200 *	1.67	3.00	6.913	8.30	54.5	158.7	388.9
100.0		1.00	0.98	6.008	6.609	0.000	1.200 *	1.67	2.00	4.510	5.41	35.8	104.0	253.7
105.0		1.00	1.00	6.093	6.702	0.000	1.200 *	1.68	5.00	10.934	13.12	87.9	249.0	609.9
110.0	Appertunance(s)	1.00	1.01	6.174	6.792	0.000	1.200 *	1.69	5.00	10.443	12.53	85.1	237.8	579.6
115.0		1.00	1.02	6.253	6.879	0.000	1.200	1.69	5.00	9.952	11.94	82.1	226.4	549.2
119.0	Appertunance(s)	1.00	1.03	6.315	6.946	0.000	1.200	1.70	4.00	7.607	9.13	63.4	173.8	418.3
120.0		1.00	1.04	6.330	6.963	0.000	1.200	1.70	1.00	1.852	2.22	15.5	43.0	102.2
125.0		1.00	1.05	6.404	7.044	0.000	1.200	1.71	5.00	8.969	10.76	75.8	203.2	487.9
126.0	Appertunance(s)	1.00	1.05	6.419	7.060	0.000	1.200	1.71	1.00	1.734	2.08	14.7	40.2	94.8
* = Cf Adjusted By Linear Load Ra Effect								Totals:	126.00			2,456.0	7,866.4	25,618.2

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	23 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		

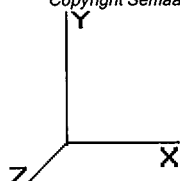
Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
80.00	BCD-87010	1	5.749	6.323	1.00	1.00	6.12	0.000	5.665	38.72	0.00	219.37	140.47
80.00	Pipe Mount	1	5.637	6.201	1.00	1.00	7.76	0.000	0.000	48.10	0.00	0.00	223.83
98.00	RCU	3	5.974	6.571	1.00	1.00	1.10	0.000	0.000	7.26	0.00	0.00	64.77
98.00	Kathrein 800 10504	3	5.974	6.571	1.00	1.00	13.56	0.000	0.000	89.12	0.00	0.00	306.92
98.00	Flush Mounts	3	5.974	6.571	0.75	0.75	9.02	0.000	0.000	59.24	0.00	0.00	-202.95
110.0	LGP-2140X	12	6.174	6.792	0.40	0.80	7.30	0.000	0.000	49.57	0.00	0.00	658.57
110.0	Kathrein 800 10122	6	6.174	6.792	0.60	0.80	31.91	0.000	0.000	216.73	0.00	0.00	1,498.88
110.0	Low Profile Platform	1	6.174	6.792	1.00	1.00	37.19	0.000	0.000	252.58	0.00	0.00	2,229.39
119.0	APX16PV-16PVL-A	6	6.315	6.946	0.60	0.80	25.52	0.000	0.000	177.28	0.00	0.00	1,041.17
119.0	Ericsson KRY 112 71	6	6.315	6.946	0.75	1.00	4.24	0.000	0.000	29.49	0.00	0.00	239.65
119.0	Andrew	3	6.315	6.946	0.60	0.80	1.25	0.000	0.000	8.66	0.00	0.00	92.69
119.0	RFS APX16DWV-	3	6.315	6.946	0.60	0.80	13.83	0.000	0.000	96.06	0.00	0.00	551.00
119.0	Low Profile Platform	1	6.315	6.946	1.00	1.00	37.33	0.000	0.000	259.27	0.00	0.00	2,234.36
126.0	72"x12" Panels	3	6.462	7.108	0.60	0.80	16.93	0.000	3.000	120.34	0.00	361.01	707.08
126.0	48"x12" Panels	9	6.462	7.108	0.60	0.80	32.58	0.000	3.000	231.60	0.00	694.79	1,498.68
126.0	Platform with Handra	1	6.462	7.108	1.00	1.00	50.19	0.000	3.000	356.75	0.00	1,070.24	3,349.47
										2,040.77			14,633.99

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 0.75 in Radial Ice 23 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

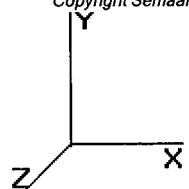
Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.69	0.00	4.256	0.130	1.091	0.00	202.85
5.00	(6) 1 5/8" Coax	Yes	5.00	1.98	1.86	0.00	4.256	0.130	1.091	0.00	106.14
5.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.130	1.091	0.00	17.48
5.00	(1) 7/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.130	1.091	0.00	17.16
10.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.76	0.00	4.256	0.134	1.101	0.00	212.49
10.00	(6) 1 5/8" Coax	Yes	5.00	1.98	1.93	0.00	4.256	0.134	1.101	0.00	111.66
10.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.134	1.101	0.00	19.34
10.00	(1) 7/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.134	1.101	0.00	18.94
15.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.81	0.00	4.256	0.137	1.112	0.00	218.49
15.00	(6) 1 5/8" Coax	Yes	5.00	1.98	1.98	0.00	4.256	0.137	1.112	0.00	115.12
15.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.137	1.112	0.00	20.53
15.00	(1) 7/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.137	1.112	0.00	20.09
20.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.84	0.00	4.256	0.141	1.124	0.00	222.93
20.00	(6) 1 5/8" Coax	Yes	5.00	1.98	2.01	0.00	4.256	0.141	1.124	0.00	117.68
20.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.141	1.124	0.00	21.44
20.00	(1) 7/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.141	1.124	0.00	20.96
25.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.87	0.00	4.256	0.145	1.136	0.00	226.47
25.00	(6) 1 5/8" Coax	Yes	5.00	1.98	2.04	0.00	4.256	0.145	1.136	0.00	119.74
25.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.145	1.136	0.00	22.17
25.00	(1) 7/8" Coax	Yes	5.00	0.00	0.00	0.00	4.256	0.145	1.136	0.00	21.66
30.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.89	0.00	4.260	0.150	1.150	0.00	229.43
30.00	(6) 1 5/8" Coax	Yes	5.00	1.98	2.06	0.00	4.260	0.150	1.150	0.00	121.46
30.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	4.260	0.150	1.150	0.00	22.79
30.00	(1) 7/8" Coax	Yes	5.00	0.00	0.00	0.00	4.260	0.150	1.150	0.00	22.26
35.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.91	0.00	4.451	0.155	1.164	0.00	231.99
35.00	(6) 1 5/8" Coax	Yes	5.00	1.98	2.08	0.00	4.451	0.155	1.164	0.00	122.95
35.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	4.451	0.155	1.164	0.00	23.33
35.00	(1) 7/8" Coax	Yes	5.00	0.00	0.00	0.00	4.451	0.155	1.164	0.00	22.78
40.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.92	0.00	4.625	0.159	1.178	0.00	234.24
40.00	(6) 1 5/8" Coax	Yes	5.00	1.98	2.10	0.00	4.625	0.159	1.178	0.00	124.26
40.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	4.625	0.159	1.178	0.00	23.81
40.00	(1) 7/8" Coax	Yes	5.00	0.00	0.00	0.00	4.625	0.159	1.178	0.00	23.24
43.50	(12) 1 5/8" Coax	Yes	3.50	3.96	2.05	0.00	4.737	0.164	1.192	0.00	164.97
43.50	(6) 1 5/8" Coax	Yes	3.50	1.98	1.48	0.00	4.737	0.164	1.192	0.00	87.57
43.50	(3) 3/8" Coax	Yes	3.50	0.00	0.00	0.00	4.737	0.164	1.192	0.00	16.88
43.50	(1) 7/8" Coax	Yes	3.50	0.00	0.00	0.00	4.737	0.164	1.192	0.00	16.48
45.00	(12) 1 5/8" Coax	Yes	1.50	3.96	0.88	0.00	4.783	0.167	1.200	0.00	70.88
45.00	(6) 1 5/8" Coax	Yes	1.50	1.98	0.63	0.00	4.783	0.167	1.200	0.00	37.63
45.00	(3) 3/8" Coax	Yes	1.50	0.00	0.00	0.00	4.783	0.167	1.200	0.00	7.27
45.00	(1) 7/8" Coax	Yes	1.50	0.00	0.00	0.00	4.783	0.167	1.200	0.00	7.10
48.50	(12) 1 5/8" Coax	Yes	3.50	3.96	2.06	0.00	4.886	0.170	1.209	0.00	166.28
48.50	(6) 1 5/8" Coax	Yes	3.50	1.98	1.49	0.00	4.886	0.170	1.209	0.00	88.34
48.50	(3) 3/8" Coax	Yes	3.50	0.00	0.00	0.00	4.886	0.170	1.209	0.00	17.17
48.50	(1) 7/8" Coax	Yes	3.50	0.00	0.00	0.00	4.886	0.170	1.209	0.00	16.75
50.00	(12) 1 5/8" Coax	Yes	1.50	3.96	0.89	0.00	4.929	0.169	1.208	0.00	71.42
50.00	(6) 1 5/8" Coax	Yes	1.50	1.98	0.64	0.00	4.929	0.169	1.208	0.00	37.95
50.00	(3) 3/8" Coax	Yes	1.50	0.00	0.00	0.00	4.929	0.169	1.208	0.00	7.39
50.00	(1) 7/8" Coax	Yes	1.50	0.00	0.00	0.00	4.929	0.169	1.208	0.00	7.21
55.00	(12) 1 5/8" Coax	Yes	5.00	3.96	2.97	0.00	5.065	0.173	1.219	0.00	239.75
55.00	(6) 1 5/8" Coax	Yes	5.00	1.98	2.14	0.00	5.065	0.173	1.219	0.00	127.49
55.00	(3) 3/8" Coax	Yes	5.00	0.00	0.00	0.00	5.065	0.173	1.219	0.00	25.01

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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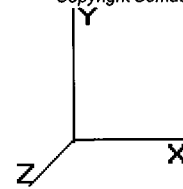
Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	23 Iterations
Gust Response Factor : 1.10	Ice Dead Load Factor : 1.00	Wind Importance Factor : 1.00
Dead Load Factor : 1.20		Ice Importance Factor : 1.00
Wind Load Factor : 1.00		

55.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.065	0.173	1.219	0.00	24.39
60.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.98	0.00	5.193	0.179	1.238	0.00	241.29
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.15	0.00	5.193	0.179	1.238	0.00	128.39
60.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.193	0.179	1.238	0.00	25.34
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.193	0.179	1.238	0.00	24.72
65.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	2.99	0.00	5.313	0.186	1.258	0.00	242.73
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.16	0.00	5.313	0.186	1.258	0.00	129.23
65.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.186	1.258	0.00	25.66
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.313	0.186	1.258	0.00	25.02
70.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.00	0.00	5.426	0.193	1.280	0.00	244.06
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	2.17	0.00	5.426	0.193	1.280	0.00	130.02
70.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.193	1.280	0.00	25.96
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.426	0.193	1.280	0.00	25.31
75.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.01	3.61	5.534	0.201	0.000	21.97	245.32
75.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.18	2.62	5.534	0.201	0.000	15.94	130.76
75.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.201	0.000	0.00	26.23
75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.534	0.201	0.000	0.00	25.58
80.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.02	3.62	5.637	0.210	0.000	22.44	246.50
80.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.19	2.63	5.637	0.210	0.000	16.30	131.46
80.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.210	0.000	0.00	26.50
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.637	0.210	0.000	0.00	25.83
85.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	3.02	3.63	5.736	0.219	0.000	22.90	247.63
85.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	2.20	2.64	5.736	0.219	0.000	16.65	132.12
85.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	5.736	0.219	0.000	0.00	26.75
88.13	(12) 1 5/8" Coax	Yes	3.13	1.200	3.96	1.89	2.27	5.795	0.227	0.000	14.48	155.19
88.13	(6) 1 5/8" Coax	Yes	3.13	1.200	1.98	1.38	1.65	5.795	0.227	0.000	10.54	82.82
88.13	(3) 3/8" Coax	Yes	3.13	0.000	0.00	0.00	0.00	5.795	0.227	0.000	0.00	16.81
90.00	(12) 1 5/8" Coax	Yes	1.88	1.200	3.96	1.14	1.36	5.830	0.232	0.000	8.75	93.26
90.00	(6) 1 5/8" Coax	Yes	1.88	1.200	1.98	0.83	0.99	5.830	0.232	0.000	6.37	49.78
90.00	(3) 3/8" Coax	Yes	1.88	0.000	0.00	0.00	0.00	5.830	0.232	0.000	0.00	10.12
91.88	(12) 1 5/8" Coax	Yes	1.88	1.200	3.96	1.14	1.37	5.865	0.236	0.000	8.81	93.40
91.88	(6) 1 5/8" Coax	Yes	1.88	1.200	1.98	0.83	0.99	5.865	0.236	0.000	6.42	49.86
91.88	(3) 3/8" Coax	Yes	1.88	0.000	0.00	0.00	0.00	5.865	0.236	0.000	0.00	10.15
95.00	(12) 1 5/8" Coax	Yes	3.13	1.200	3.96	1.90	2.28	5.921	0.237	0.000	14.85	156.06
95.00	(6) 1 5/8" Coax	Yes	3.13	1.200	1.98	1.38	1.66	5.921	0.237	0.000	10.82	83.34
95.00	(3) 3/8" Coax	Yes	3.13	0.000	0.00	0.00	0.00	5.921	0.237	0.000	0.00	17.01
98.00	(12) 1 5/8" Coax	Yes	3.00	1.200	3.96	1.83	2.19	5.974	0.244	0.000	14.40	150.17
98.00	(6) 1 5/8" Coax	Yes	3.00	1.200	1.98	1.33	1.60	5.974	0.244	0.000	10.50	80.21
98.00	(3) 3/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	5.974	0.244	0.000	0.00	16.41
100.0	(12) 1 5/8" Coax	Yes	2.00	0.000	3.96	1.22	0.00	6.008	0.167	1.201	0.00	100.27
105.0	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.05	0.00	6.093	0.173	1.219	0.00	251.60
110.0	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	3.06	0.00	6.174	0.183	1.248	0.00	252.48
Totals:											222.12	8,495.17

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	23 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		

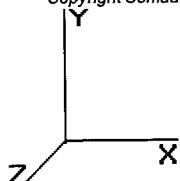
Applied Segment Forces Summary

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	112.57	1,927.99	0.00	0.00
10.00	110.19	1,934.59	0.00	0.00
15.00	107.65	1,923.43	0.00	0.00
20.00	105.05	1,904.47	0.00	0.00
25.00	102.41	1,880.99	0.00	0.00
30.00	99.82	1,854.54	0.00	0.00
35.00	101.51	1,825.94	0.00	0.00
40.00	102.52	1,795.74	0.00	0.00
43.50	71.70	1,238.67	0.00	0.00
45.00	31.07	743.20	0.00	0.00
48.50	72.98	1,713.97	0.00	0.00
50.00	31.07	481.78	0.00	0.00
55.00	104.35	1,585.70	0.00	0.00
60.00	103.65	1,556.42	0.00	0.00
65.00	102.63	1,526.50	0.00	0.00
70.00	101.34	1,496.03	0.00	0.00
75.00	137.70	1,465.08	0.00	0.00
80.00	223.58	1,798.00	0.00	219.37
85.00	135.57	1,375.85	0.00	0.00
88.13	83.75	844.50	0.00	0.00
90.00	50.47	657.49	0.00	0.00
91.88	50.25	650.23	0.00	0.00
95.00	83.41	765.09	0.00	0.00
98.00	235.03	892.97	0.00	0.00
100.0	35.77	413.00	0.00	0.00
105.0	87.93	1,009.05	0.00	0.00
110.0	603.99	5,366.52	0.00	0.00
115.0	82.14	696.76	0.00	0.00
119.0	634.17	4,695.21	0.00	0.00
120.0	15.48	114.00	0.00	0.00
125.0	75.82	546.92	0.00	0.00
126.0	723.37	5,661.85	0.00	2,126.03
Totals:	4,718.92	52,342.49	0.00	2,345.41

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.2D + 1.0Di + 1.0Wi	50.00 mph with 0.75 in Radial Ice	23 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		

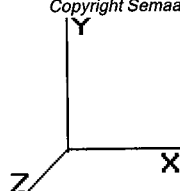
Calculated Forces

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	-52.34	-4.74	0.00	-442.49	0.00	442.49	3,141.92	1,570.96	5,823.14	2,915.90	0.00	0.00	0.168
5.00	-50.41	-4.67	0.00	-418.79	0.00	418.79	3,060.07	1,530.03	5,522.46	2,765.33	0.02	-0.04	0.168
10.00	-48.47	-4.59	0.00	-395.47	0.00	395.47	2,978.22	1,489.11	5,229.75	2,618.76	0.09	-0.09	0.167
15.00	-46.54	-4.52	0.00	-372.51	0.00	372.51	2,896.36	1,448.18	4,945.02	2,476.18	0.21	-0.14	0.167
20.00	-44.64	-4.45	0.00	-349.92	0.00	349.92	2,814.51	1,407.25	4,668.25	2,337.59	0.38	-0.18	0.166
25.00	-42.75	-4.37	0.00	-327.69	0.00	327.69	2,732.65	1,366.33	4,399.45	2,203.00	0.60	-0.23	0.164
30.00	-40.89	-4.30	0.00	-305.83	0.00	305.83	2,650.80	1,325.40	4,138.63	2,072.39	0.87	-0.28	0.163
35.00	-39.06	-4.22	0.00	-284.32	0.00	284.32	2,568.94	1,284.47	3,885.77	1,945.78	1.19	-0.33	0.161
40.00	-37.27	-4.14	0.00	-263.20	0.00	263.20	2,487.09	1,243.55	3,640.89	1,823.15	1.57	-0.38	0.159
43.50	-36.03	-4.08	0.00	-248.72	0.00	248.72	2,429.79	1,214.90	3,474.21	1,739.69	1.86	-0.42	0.158
45.00	-35.28	-4.06	0.00	-242.60	0.00	242.60	2,405.24	1,202.62	3,403.97	1,704.52	2.00	-0.44	0.157
48.50	-33.57	-3.98	0.00	-228.41	0.00	228.41	1,996.51	998.25	2,819.39	1,411.79	2.33	-0.48	0.179
50.00	-33.08	-3.97	0.00	-222.43	0.00	222.43	1,976.04	988.02	2,761.64	1,382.87	2.48	-0.49	0.178
55.00	-31.49	-3.89	0.00	-202.57	0.00	202.57	1,907.83	953.92	2,573.43	1,288.63	3.03	-0.55	0.174
60.00	-29.93	-3.80	0.00	-183.14	0.00	183.14	1,839.62	919.81	2,391.87	1,197.71	3.65	-0.61	0.169
65.00	-28.40	-3.71	0.00	-164.14	0.00	164.14	1,771.41	885.70	2,216.95	1,110.12	4.32	-0.68	0.164
70.00	-26.91	-3.62	0.00	-145.58	0.00	145.58	1,703.20	851.60	2,048.67	1,025.86	5.06	-0.74	0.158
75.00	-25.44	-3.49	0.00	-127.48	0.00	127.48	1,634.98	817.49	1,887.03	944.92	5.87	-0.80	0.150
80.00	-23.64	-3.26	0.00	-109.82	0.00	109.82	1,566.77	783.39	1,732.03	867.30	6.74	-0.86	0.142
85.00	-22.27	-3.13	0.00	-93.49	0.00	93.49	1,498.56	749.28	1,583.67	793.01	7.67	-0.92	0.133
88.13	-21.42	-3.04	0.00	-83.72	0.00	83.72	1,455.93	727.96	1,494.33	748.27	8.29	-0.95	0.127
90.00	-20.76	-2.99	0.00	-78.03	0.00	78.03	1,430.35	715.17	1,441.96	722.05	8.67	-0.98	0.123
91.88	-20.11	-2.93	0.00	-72.43	0.00	72.43	1,149.93	574.96	1,167.96	584.85	9.05	-1.00	0.141
95.00	-19.35	-2.85	0.00	-63.26	0.00	63.26	1,115.82	557.91	1,099.37	550.50	9.72	-1.03	0.132
98.00	-18.46	-2.61	0.00	-54.71	0.00	54.71	1,083.08	541.54	1,035.48	518.51	10.38	-1.07	0.123
100.00	-18.04	-2.58	0.00	-49.50	0.00	49.50	1,061.25	530.62	993.95	497.71	10.83	-1.09	0.116
105.00	-17.03	-2.48	0.00	-36.62	0.00	36.62	1,006.68	503.34	893.83	447.58	12.00	-1.14	0.099
110.00	-11.68	-1.78	0.00	-24.21	0.00	24.21	952.11	476.06	799.03	400.11	13.22	-1.18	0.073
115.00	-10.98	-1.68	0.00	-15.33	0.00	15.33	897.54	448.77	709.55	355.30	14.48	-1.22	0.055
119.00	-6.30	-0.95	0.00	-8.59	0.00	8.59	853.89	426.94	641.78	321.37	15.51	-1.24	0.034
120.00	-6.19	-0.93	0.00	-7.64	0.00	7.64	842.97	421.49	625.37	313.15	15.77	-1.24	0.032
125.00	-5.64	-0.85	0.00	-2.97	0.00	2.97	788.40	394.20	546.51	273.66	17.08	-1.25	0.018
126.00	0.00	-0.72	0.00	-2.13	0.00	2.13	777.49	388.74	531.38	266.08	17.34	-1.25	0.008

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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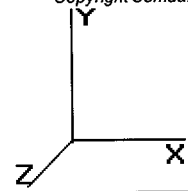
Load Case: 1.0D + 1.0W 60.00 mph Serviceability 22 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Shaft Segment Forces (Factored)

Seg Top Elev (ft)	Description	Kzt	Kz	az (psf)	azGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.742	193.27	0.650	0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.742	188.28	0.650	* 0.00	5.00	19.002	12.35	83.3	0.0	901.9
10.00		1.00	0.70	6.129	6.742	183.28	0.650	* 0.00	5.00	18.505	12.03	81.1	0.0	878.1
15.00		1.00	0.70	6.129	6.742	178.29	0.650	* 0.00	5.00	18.007	11.70	78.9	0.0	854.3
20.00		1.00	0.70	6.129	6.742	173.30	0.650	* 0.00	5.00	17.510	11.38	76.7	0.0	830.5
25.00		1.00	0.70	6.129	6.742	168.30	0.650	* 0.00	5.00	17.013	11.06	74.5	0.0	806.7
30.00		1.00	0.70	6.134	6.747	163.38	0.650	* 0.00	5.00	16.515	10.73	72.4	0.0	782.9
35.00		1.00	0.73	6.410	7.051	161.91	0.650	* 0.00	5.00	16.018	10.41	73.4	0.0	759.0
40.00		1.00	0.76	6.659	7.325	159.82	0.650	* 0.00	5.00	15.520	10.09	73.9	0.0	735.2
43.50	Bot - Section 2	1.00	0.77	6.821	7.503	158.06	0.650	* 0.00	3.50	10.568	6.87	51.5	0.0	500.5
45.00		1.00	0.78	6.887	7.576	157.24	0.650	* 0.00	1.50	4.534	2.95	22.3	0.0	390.2
48.50	Top - Section 1	1.00	0.80	7.036	7.740	155.19	0.650	* 0.00	3.50	10.405	6.76	52.3	0.0	895.2
50.00		1.00	0.81	7.098	7.807	157.11	0.650	* 0.00	1.50	4.385	2.85	22.3	0.0	173.3
55.00		1.00	0.83	7.294	8.023	153.81	0.650	* 0.00	5.00	14.293	9.29	74.5	0.0	564.8
60.00		1.00	0.85	7.477	8.225	150.22	0.650	* 0.00	5.00	13.795	8.97	73.8	0.0	544.9
65.00		1.00	0.87	7.650	8.415	146.37	0.650	* 0.00	5.00	13.298	8.64	72.7	0.0	525.1
70.00		1.00	0.89	7.814	8.595	142.29	0.650	* 0.00	5.00	12.800	8.32	71.5	0.0	505.3
75.00		1.00	0.91	7.969	8.766	138.00	1.200	* 0.00	5.00	12.303	14.76	129.4	0.0	485.4
80.00	Appertunance(s)	1.00	0.92	8.118	8.930	133.53	1.200	* 0.00	5.00	11.806	14.17	126.5	0.0	465.6
85.00		1.00	0.94	8.260	9.086	128.90	1.200	* 0.00	5.00	11.308	13.57	123.3	0.0	445.8
88.13	Bot - Section 3	1.00	0.95	8.345	9.180	125.92	1.200	* 0.00	3.13	6.815	8.18	75.1	0.0	268.5
90.00		1.00	0.95	8.396	9.235	124.11	1.200	* 0.00	1.88	4.075	4.89	45.2	0.0	286.2
91.88	Top - Section 2	1.00	0.96	8.445	9.290	122.28	1.200	* 0.00	1.88	4.005	4.81	44.6	0.0	281.1
95.00		1.00	0.97	8.526	9.379	121.69	1.200	* 0.00	3.13	6.520	7.82	73.4	0.0	205.9
98.00	Appertunance(s)	1.00	0.98	8.602	9.463	118.68	1.200	* 0.00	3.00	6.076	7.29	69.0	0.0	191.9
100.0		1.00	0.98	8.652	9.517	116.65	0.650	* 0.00	2.00	3.951	2.57	24.4	0.0	124.7
105.0		1.00	1.00	8.774	9.651	111.49	0.650	* 0.00	5.00	9.530	6.19	59.8	0.0	300.7
110.0	Appertunance(s)	1.00	1.01	8.891	9.780	106.22	0.650	* 0.00	5.00	9.033	5.87	57.4	0.0	284.8
115.0		1.00	1.02	9.005	9.905	100.84	0.650	0.00	5.00	8.535	5.55	55.0	0.0	269.0
119.0	Appertunance(s)	1.00	1.03	9.093	10.00	96.475	0.650	0.00	4.00	6.470	4.21	42.1	0.0	203.8
120.0		1.00	1.04	9.115	10.02	95.373	0.650	0.00	1.00	1.568	1.02	10.2	0.0	49.4
125.0		1.00	1.05	9.222	10.14	89.805	0.650	0.00	5.00	7.541	4.90	49.7	0.0	237.2
126.0	Appertunance(s)	1.00	1.05	9.243	10.16	88.680	0.650	0.00	1.00	1.448	0.94	9.6	0.0	45.5
* = Cf Adjusted By Linear Load Ra Effect								Totals:		126.00		2,049.9	0.0	14,793.2

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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



Load Case: 1.0D + 1.0W	60.00 mph Serviceability	22 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

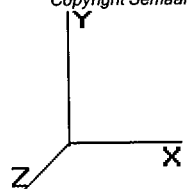
Discrete Appurtenance Segment Forces (Factored)

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Ka	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
80.00	BCD-87010	1	8.278	9.106	1.00	1.00	2.53	0.000	5.665	23.04	0.00	130.51	27.00
80.00	Pipe Mount	1	8.118	8.930	1.00	1.00	5.20	0.000	0.000	46.43	0.00	0.00	150.00
98.00	RCU	3	8.602	9.463	1.00	1.00	0.48	0.000	0.000	4.54	0.00	0.00	30.00
98.00	Kathrein 800 10504	3	8.602	9.463	1.00	1.00	10.82	0.000	0.000	102.37	0.00	0.00	52.80
98.00	Flush Mounts	3	8.602	9.463	0.75	0.75	4.50	0.000	0.000	42.58	0.00	0.00	180.00
110.0	LGP-2140X	12	8.891	9.780	0.40	0.80	6.05	0.000	0.000	59.15	0.00	0.00	228.00
110.0	Kathrein 800 10122	6	8.891	9.780	0.60	0.80	27.40	0.000	0.000	267.94	0.00	0.00	370.20
110.0	Low Profile Platform	1	8.891	9.780	1.00	1.00	20.00	0.000	0.000	195.60	0.00	0.00	1,500.00
119.0	APX16PV-16PVL-A	6	9.093	10.002	0.60	0.80	23.94	0.000	0.000	239.46	0.00	0.00	240.00
119.0	Ericsson KRY 112 71	6	9.093	10.002	0.75	1.00	3.06	0.000	0.000	30.61	0.00	0.00	79.20
119.0	Andrew	3	9.093	10.002	0.60	0.80	0.85	0.000	0.000	8.46	0.00	0.00	33.00
119.0	RFS APX16DWW-	3	9.093	10.002	0.60	0.80	13.01	0.000	0.000	130.17	0.00	0.00	123.00
119.0	Low Profile Platform	1	9.093	10.002	1.00	1.00	20.00	0.000	0.000	200.05	0.00	0.00	1,500.00
126.0	72"x12" Panels	3	9.305	10.236	0.60	0.80	15.12	0.000	3.000	154.76	0.00	464.29	120.00
126.0	48"x12" Panels	9	9.305	10.236	0.60	0.80	30.24	0.000	3.000	309.53	0.00	928.58	270.00
126.0	Platform with Handra	1	9.305	10.236	1.00	1.00	33.75	0.000	3.000	345.45	0.00	1,036.36	2,000.00
										2,160.14			6,903.20

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.0D + 1.0W	60.00 mph Serviceability	22 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

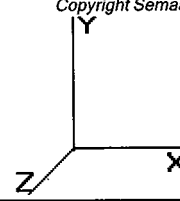
Linear Appurtenance Segment Forces (Factored)

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	qz (psf)	Ra	Cf Adjust Factor	F X (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.130	1.091	0.00	49.19
5.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.130	1.091	0.00	24.60
5.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.130	1.091	0.00	1.20
5.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.130	1.091	0.00	1.65
10.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.134	1.101	0.00	49.19
10.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.134	1.101	0.00	24.60
10.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.134	1.101	0.00	1.20
10.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.134	1.101	0.00	1.65
15.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.137	1.112	0.00	49.19
15.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.137	1.112	0.00	24.60
15.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.137	1.112	0.00	1.20
15.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.137	1.112	0.00	1.65
20.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.141	1.124	0.00	49.19
20.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.141	1.124	0.00	24.60
20.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.141	1.124	0.00	1.20
20.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.141	1.124	0.00	1.65
25.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.129	0.145	1.136	0.00	49.19
25.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.129	0.145	1.136	0.00	24.60
25.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.145	1.136	0.00	1.20
25.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.129	0.145	1.136	0.00	1.65
30.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.134	0.150	1.150	0.00	49.19
30.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.134	0.150	1.150	0.00	24.60
30.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.150	1.150	0.00	1.20
30.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.134	0.150	1.150	0.00	1.65
35.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.410	0.155	1.164	0.00	49.19
35.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.410	0.155	1.164	0.00	24.60
35.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.155	1.164	0.00	1.20
35.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.410	0.155	1.164	0.00	1.65
40.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	6.659	0.159	1.178	0.00	49.19
40.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	6.659	0.159	1.178	0.00	24.60
40.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.159	1.178	0.00	1.20
40.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	6.659	0.159	1.178	0.00	1.65
43.50	(12) 1 5/8" Coax	Yes	3.50	0.000	3.96	1.15	0.00	6.821	0.164	1.192	0.00	34.44
43.50	(6) 1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	6.821	0.164	1.192	0.00	17.22
43.50	(3) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	6.821	0.164	1.192	0.00	0.84
43.50	(1) 7/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	6.821	0.164	1.192	0.00	1.16
45.00	(12) 1 5/8" Coax	Yes	1.50	0.000	3.96	0.50	0.00	6.887	0.167	1.200	0.00	14.76
45.00	(6) 1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	6.887	0.167	1.200	0.00	7.38
45.00	(3) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.887	0.167	1.200	0.00	0.36
45.00	(1) 7/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	6.887	0.167	1.200	0.00	0.50
48.50	(12) 1 5/8" Coax	Yes	3.50	0.000	3.96	1.15	0.00	7.036	0.170	1.209	0.00	34.44
48.50	(6) 1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	7.036	0.170	1.209	0.00	17.22
48.50	(3) 3/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	7.036	0.170	1.209	0.00	0.84
48.50	(1) 7/8" Coax	Yes	3.50	0.000	0.00	0.00	0.00	7.036	0.170	1.209	0.00	1.16
50.00	(12) 1 5/8" Coax	Yes	1.50	0.000	3.96	0.50	0.00	7.098	0.169	1.208	0.00	14.76
50.00	(6) 1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	7.098	0.169	1.208	0.00	7.38
50.00	(3) 3/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.098	0.169	1.208	0.00	0.36
50.00	(1) 7/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	7.098	0.169	1.208	0.00	0.50
55.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.294	0.173	1.219	0.00	49.19
55.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.294	0.173	1.219	0.00	24.60
55.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.173	1.219	0.00	1.20

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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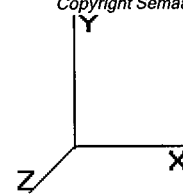
Load Case: 1.0D + 1.0W	60.00 mph Serviceability	22 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

55.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.294	0.173	1.219	0.00	1.65
60.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.477	0.179	1.238	0.00	49.19
60.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.477	0.179	1.238	0.00	24.60
60.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.477	0.179	1.238	0.00	1.20
60.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.477	0.179	1.238	0.00	1.65
65.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.650	0.186	1.258	0.00	49.19
65.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.650	0.186	1.258	0.00	24.60
65.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.186	1.258	0.00	1.20
65.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.650	0.186	1.258	0.00	1.65
70.00	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	7.814	0.193	1.280	0.00	49.19
70.00	(6) 1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	7.814	0.193	1.280	0.00	24.60
70.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.193	1.280	0.00	1.20
70.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.814	0.193	1.280	0.00	1.65
75.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	7.969	0.201	0.000	17.36	49.19
75.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	7.969	0.201	0.000	8.68	24.60
75.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.201	0.000	0.00	1.20
75.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	7.969	0.201	0.000	0.00	1.65
80.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.118	0.210	0.000	17.68	49.19
80.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	8.118	0.210	0.000	8.84	24.60
80.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.210	0.000	0.00	1.20
80.00	(1) 7/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.118	0.210	0.000	0.00	1.65
85.00	(12) 1 5/8" Coax	Yes	5.00	1.200	3.96	1.65	1.98	8.260	0.219	0.000	17.99	49.19
85.00	(6) 1 5/8" Coax	Yes	5.00	1.200	1.98	0.82	0.99	8.260	0.219	0.000	8.99	24.60
85.00	(3) 3/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	8.260	0.219	0.000	0.00	1.20
88.13	(12) 1 5/8" Coax	Yes	3.13	1.200	3.96	1.03	1.24	8.345	0.227	0.000	11.36	30.75
88.13	(6) 1 5/8" Coax	Yes	3.13	1.200	1.98	0.52	0.62	8.345	0.227	0.000	5.68	15.37
88.13	(3) 3/8" Coax	Yes	3.13	0.000	0.00	0.00	0.00	8.345	0.227	0.000	0.00	0.75
90.00	(12) 1 5/8" Coax	Yes	1.88	1.200	3.96	0.62	0.74	8.396	0.232	0.000	6.86	18.45
90.00	(6) 1 5/8" Coax	Yes	1.88	1.200	1.98	0.31	0.37	8.396	0.232	0.000	3.43	9.22
90.00	(3) 3/8" Coax	Yes	1.88	0.000	0.00	0.00	0.00	8.396	0.232	0.000	0.00	0.45
91.88	(12) 1 5/8" Coax	Yes	1.88	1.200	3.96	0.62	0.74	8.445	0.236	0.000	6.90	18.45
91.88	(6) 1 5/8" Coax	Yes	1.88	1.200	1.98	0.31	0.37	8.445	0.236	0.000	3.45	9.22
91.88	(3) 3/8" Coax	Yes	1.88	0.000	0.00	0.00	0.00	8.445	0.236	0.000	0.00	0.45
95.00	(12) 1 5/8" Coax	Yes	3.13	1.200	3.96	1.03	1.24	8.526	0.237	0.000	11.61	30.75
95.00	(6) 1 5/8" Coax	Yes	3.13	1.200	1.98	0.52	0.62	8.526	0.237	0.000	5.80	15.37
95.00	(3) 3/8" Coax	Yes	3.13	0.000	0.00	0.00	0.00	8.526	0.237	0.000	0.00	0.75
98.00	(12) 1 5/8" Coax	Yes	3.00	1.200	3.96	0.99	1.19	8.602	0.244	0.000	11.24	29.52
98.00	(6) 1 5/8" Coax	Yes	3.00	1.200	1.98	0.50	0.59	8.602	0.244	0.000	5.62	14.76
98.00	(3) 3/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	8.602	0.244	0.000	0.00	0.72
100.0	(12) 1 5/8" Coax	Yes	2.00	0.000	3.96	0.66	0.00	8.652	0.167	1.201	0.00	19.68
105.0	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	8.774	0.173	1.219	0.00	49.19
110.0	(12) 1 5/8" Coax	Yes	5.00	0.000	3.96	1.65	0.00	8.891	0.183	1.248	0.00	49.19
Totals:											151.48	1,614.26

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.0D + 1.0W 60.00 mph Serviceability 22 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

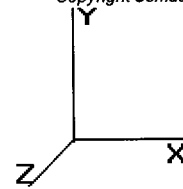
Applied Segment Forces Summary

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	83.27	1,101.51	0.00	0.00
10.00	81.09	1,077.70	0.00	0.00
15.00	78.91	1,053.89	0.00	0.00
20.00	76.73	1,030.09	0.00	0.00
25.00	74.55	1,006.28	0.00	0.00
30.00	72.43	982.47	0.00	0.00
35.00	73.41	958.67	0.00	0.00
40.00	73.90	934.86	0.00	0.00
43.50	51.54	640.24	0.00	0.00
45.00	22.33	450.07	0.00	0.00
48.50	52.35	1,034.89	0.00	0.00
50.00	22.25	233.19	0.00	0.00
55.00	74.53	764.41	0.00	0.00
60.00	73.75	744.57	0.00	0.00
65.00	72.74	724.73	0.00	0.00
70.00	71.52	704.89	0.00	0.00
75.00	155.46	685.06	0.00	0.00
80.00	222.49	842.22	0.00	130.51
85.00	150.27	643.73	0.00	0.00
88.13	92.11	392.26	0.00	0.00
90.00	55.45	360.40	0.00	0.00
91.88	54.99	355.37	0.00	0.00
95.00	90.79	329.66	0.00	0.00
98.00	235.36	573.44	0.00	0.00
100.0	24.44	193.60	0.00	0.00
105.0	59.78	472.89	0.00	0.00
110.0	580.11	2,555.22	0.00	0.00
115.0	54.95	391.96	0.00	0.00
119.0	650.81	2,277.34	0.00	0.00
120.0	10.22	59.19	0.00	0.00
125.0	49.72	286.43	0.00	0.00
126.0	819.31	2,445.38	0.00	2,429.22
Totals:	4,361.57	26,306.61	0.00	2,559.73

Pole : 302469
 Location : Bridgeport CT 2, CT
 Height : 126.0 (ft)
 Shape : 18 Sides
 Base Dia : 45.50 (in)
 Top Dia : 17.00 (in)
 Taper : 0.235121 (in/ft)

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

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Load Case: 1.0D + 1.0W	60.00 mph Serviceability	22 Iterations
Gust Response Factor : 1.10		Wind Importance Factor : 1.00
Dead Load Factor : 1.00		
Wind Load Factor : 1.00		

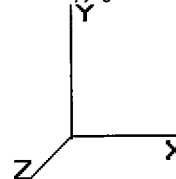
Calculated Forces

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	-26.30	-4.37	0.00	-414.77	0.00	414.77	3,141.92	1,570.96	5,823.14	2,915.90	0.00	0.00	0.151
5.00	-25.20	-4.31	0.00	-392.92	0.00	392.92	3,060.07	1,530.03	5,522.46	2,765.33	0.02	-0.04	0.150
10.00	-24.12	-4.24	0.00	-371.40	0.00	371.40	2,978.22	1,489.11	5,229.75	2,618.76	0.09	-0.08	0.150
15.00	-23.06	-4.18	0.00	-350.19	0.00	350.19	2,896.36	1,448.18	4,945.02	2,476.18	0.20	-0.13	0.149
20.00	-22.03	-4.12	0.00	-329.30	0.00	329.30	2,814.51	1,407.25	4,668.25	2,337.59	0.36	-0.17	0.149
25.00	-21.02	-4.05	0.00	-308.72	0.00	308.72	2,732.65	1,366.33	4,399.45	2,203.00	0.56	-0.22	0.148
30.00	-20.03	-3.99	0.00	-288.45	0.00	288.45	2,650.80	1,325.40	4,138.63	2,072.39	0.82	-0.26	0.147
35.00	-19.07	-3.93	0.00	-268.47	0.00	268.47	2,568.94	1,284.47	3,885.77	1,945.78	1.12	-0.31	0.145
40.00	-18.14	-3.87	0.00	-248.81	0.00	248.81	2,487.09	1,243.55	3,640.89	1,823.15	1.47	-0.36	0.144
43.50	-17.49	-3.82	0.00	-235.28	0.00	235.28	2,429.79	1,214.90	3,474.21	1,739.69	1.75	-0.40	0.142
45.00	-17.04	-3.80	0.00	-229.55	0.00	229.55	2,405.24	1,202.62	3,403.97	1,704.52	1.88	-0.41	0.142
48.50	-16.01	-3.75	0.00	-216.25	0.00	216.25	1,996.51	998.25	2,819.39	1,411.79	2.19	-0.45	0.161
50.00	-15.77	-3.73	0.00	-210.62	0.00	210.62	1,976.04	988.02	2,761.64	1,382.87	2.34	-0.46	0.160
55.00	-15.00	-3.67	0.00	-191.96	0.00	191.96	1,907.83	953.92	2,573.43	1,288.63	2.85	-0.52	0.157
60.00	-14.26	-3.60	0.00	-173.62	0.00	173.62	1,839.62	919.81	2,391.87	1,197.71	3.43	-0.58	0.153
65.00	-13.53	-3.54	0.00	-155.61	0.00	155.61	1,771.41	885.70	2,216.95	1,110.12	4.07	-0.64	0.148
70.00	-12.82	-3.47	0.00	-137.93	0.00	137.93	1,703.20	851.60	2,048.67	1,025.86	4.77	-0.70	0.142
75.00	-12.13	-3.32	0.00	-120.59	0.00	120.59	1,634.98	817.49	1,887.03	944.92	5.53	-0.75	0.135
80.00	-11.29	-3.09	0.00	-103.88	0.00	103.88	1,566.77	783.39	1,732.03	867.30	6.35	-0.81	0.127
85.00	-10.65	-2.94	0.00	-88.41	0.00	88.41	1,498.56	749.28	1,583.67	793.01	7.23	-0.87	0.119
88.13	-10.26	-2.85	0.00	-79.21	0.00	79.21	1,455.93	727.96	1,494.33	748.27	7.81	-0.90	0.113
90.00	-9.90	-2.79	0.00	-73.87	0.00	73.87	1,430.35	715.17	1,441.96	722.05	8.17	-0.92	0.109
91.88	-9.54	-2.74	0.00	-68.64	0.00	68.64	1,149.93	574.96	1,167.96	584.85	8.54	-0.94	0.126
95.00	-9.21	-2.64	0.00	-60.09	0.00	60.09	1,115.82	557.91	1,099.37	550.50	9.17	-0.97	0.117
98.00	-8.64	-2.40	0.00	-52.16	0.00	52.16	1,083.08	541.54	1,035.48	518.51	9.79	-1.01	0.109
100.00	-8.45	-2.38	0.00	-47.35	0.00	47.35	1,061.25	530.62	993.95	497.71	10.22	-1.03	0.103
105.00	-7.97	-2.32	0.00	-35.45	0.00	35.45	1,006.68	503.34	893.83	447.58	11.33	-1.08	0.087
110.00	-5.43	-1.69	0.00	-23.86	0.00	23.86	952.11	476.06	799.03	400.11	12.48	-1.12	0.065
115.00	-5.04	-1.63	0.00	-15.39	0.00	15.39	897.54	448.77	709.55	355.30	13.67	-1.15	0.049
119.00	-2.77	-0.94	0.00	-8.86	0.00	8.86	853.89	426.94	641.78	321.37	14.65	-1.17	0.031
120.00	-2.71	-0.93	0.00	-7.93	0.00	7.93	842.97	421.49	625.37	313.15	14.90	-1.18	0.029
125.00	-2.43	-0.87	0.00	-3.30	0.00	3.30	788.40	394.20	546.51	273.66	16.14	-1.19	0.015
126.00	0.00	-0.82	0.00	-2.43	0.00	2.43	777.49	388.74	531.38	266.08	16.39	-1.19	0.009

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 Topographic Category : 1

Base Elev : 0.000 (ft)



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	24.63	0.00	31.52	0.00	0.00	2301.94	48.50	0.85
0.9D + 1.6W	23.45	0.00	23.63	0.00	0.00	2214.61	48.50	0.82
1.2D + 1.0Di + 1.0Wi	4.74	0.00	52.34	0.00	0.00	442.49	48.50	0.18
1.0D + 1.0W	4.37	0.00	26.30	0.00	0.00	414.77	48.50	0.16