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ATTORNEYS AT LAW

EM-POCKET-049-080919

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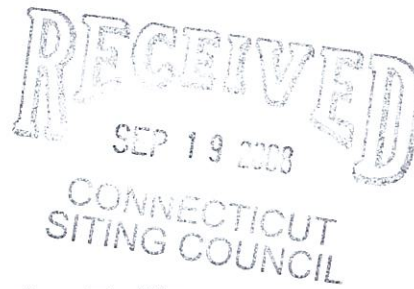
www.pullcom.com

September 18, 2008

ORIGINAL

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
Town Farm Road, Enfield, Connecticut**

Dear Mr. Phelps:

Youghioghney Communications-Northeast, LLC, doing business as Pocket Communications ("Pocket"), intends to install antennas and appurtenant equipment at the existing 150-foot monopole facility owned by American Tower Corporation and located at Town Farm Road, Enfield, Connecticut ("Facility"). Pocket Communications provides prepaid, flat rate wireless voice and data services to more than a quarter of a million subscribers. Pocket 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 Scott R. Kaupin, Mayor, Town of Enfield.

The existing Facility consists of a 150-foot self-supporting monopole tower capable of supporting multiple carriers within a fenced compound. The coordinates for the Facility are **Lat: 41°-57'-57" and Long: 72°-33'-10"**. The tower is in a remote portion of south central Enfield, approximately 3,330 feet north of Town Farm Road. The Facility is roughly halfway between Raffia Road to the west (approximately 3,300 feet) and Abbe Road to the east (approximately 3,600 feet). The Scantic River is approximately 900 feet due west of the Facility (see Site Map, attached as Exhibit A). The tower currently supports Verizon antennas at the one hundred thirty foot (130') level centerline AGL (above ground level), T-Mobile antennas at the one hundred forty foot level (140') AGL, AT&T antennas at the one hundred fifty four foot level (154') and an SNET paging antenna, extending off the top of the tower at the one hundred sixty one foot level (161'), centerline AGL. Pocket proposes to install three Kathrein 742-213 flush mount antennas on the tower at the one hundred twenty two foot centerline (122') AGL, and a Nortel

Page 2

CDMA Micro BTS 3231 cabinet, mounted on an "H-Frame," contained within a six foot by six foot (6'-0" x 6'-0") lease area. A small GPS antenna will be mounted to an ice bridge which will run from the lease area to the tower. Utilities will be run via a proposed underground conduit from an existing utility backboard, within the southeast corner of the compound (See Design Drawings and Equipment Specifications, attached as Exhibits B and C respectively).

For the following reasons, the proposed modifications to the Town Farm Road 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 Pocket's antennas will be installed at a center line height of approximately 122 feet.
2. The installation of Pocket's equipment and shelter 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 22.83% of the FCC standard (see general power density calculations table, attached as Exhibit D).

Also attached, Exhibit E, is a structural analysis confirming that the tower can support the existing and proposed antennas and associated equipment.

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

Respectfully Submitted,



Carrie L. Larson

cc: Scott R. Kaupin, Mayor, Town of Enfield (Town of Enfield is also underlying property owner)

Exhibit A

Site Map

Pocket Site HFCT0326A

Town Farm Road

Enfield, Connecticut

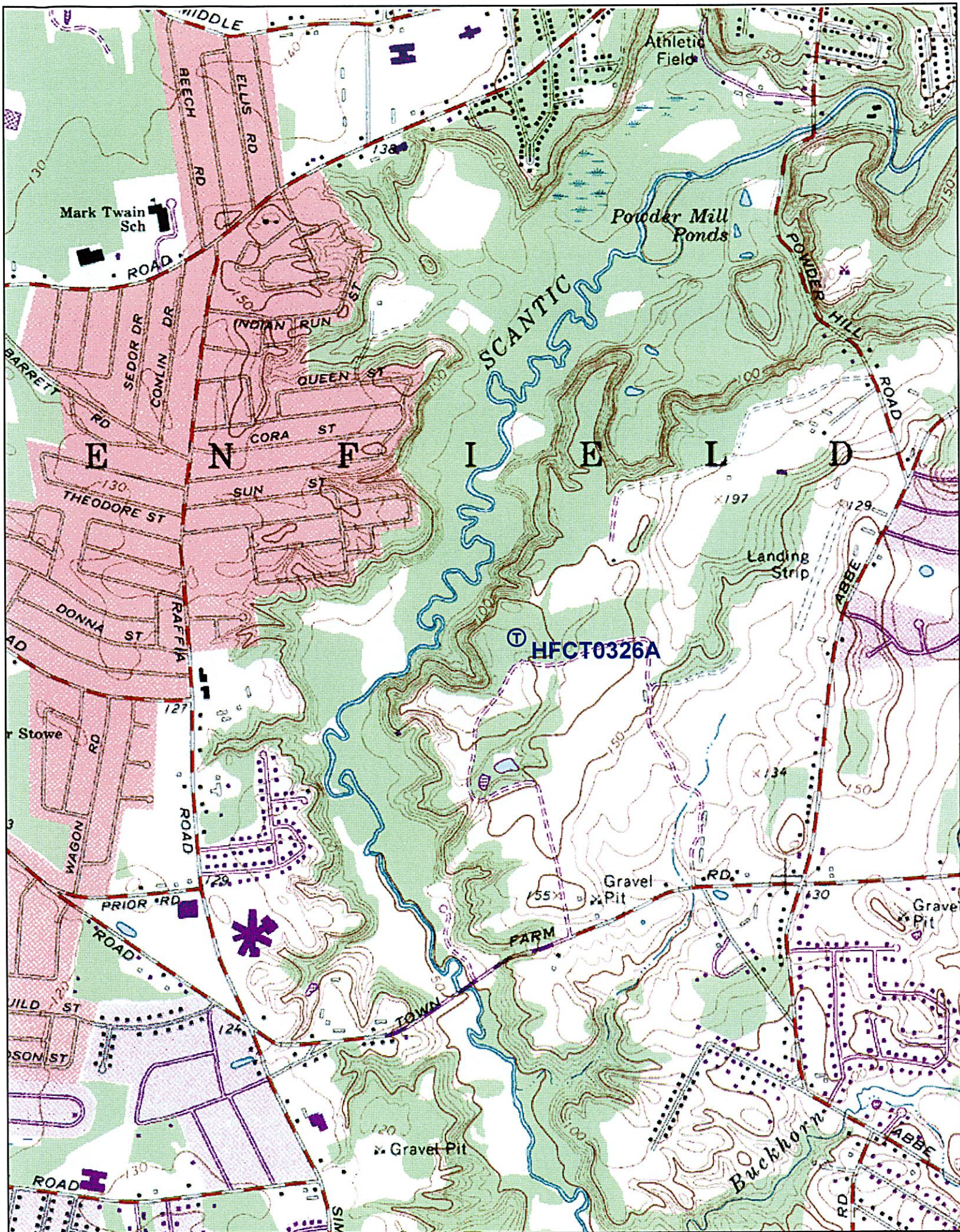


Exhibit B

Design Drawings

Pocket Site HFCT0326A

Town Farm Road

Enfield, Connecticut

COMMUNICATIONS

HFCT0326A **ATC 302489**

150' MONOPOLE

SITE INFORMATION

OWNER:	ATC 10 PRESIDENTIAL WAY WOBURN, MA 01801 TEL: 781-938-1645
OWNER SITE ID#:	ATC 302489-ENFD-ENFED
APPLICANT:	VOUSROUCH COMMUNICATIONS- NORTHEAST LLC 2819 NW LOOP 410 SAN ANTONIO, TX 78230
SITE ADDRESS:	TOWN FARM ROAD ENFIELD, CT 06082
COUNTY:	HARTFORD
LATITUDE:	N 41° 57' 57.28"
LONGITUDE:	W 72° 33' 08.72"
ZONING CLASSIFICATION:	N/A
ZONING JURISDICTION:	CONNECTICUT SITING COUNCIL
POWER COMPANY:	CLAP 1-860-947-2121
TELEPHONE COMPANY:	AT&T 1-888-727-8368
DESIGN FIRM:	TRIVIS 180 CHANDLER PLACE DRIVE PELHAM, AL 35124 PHONE: (205) 621-0106

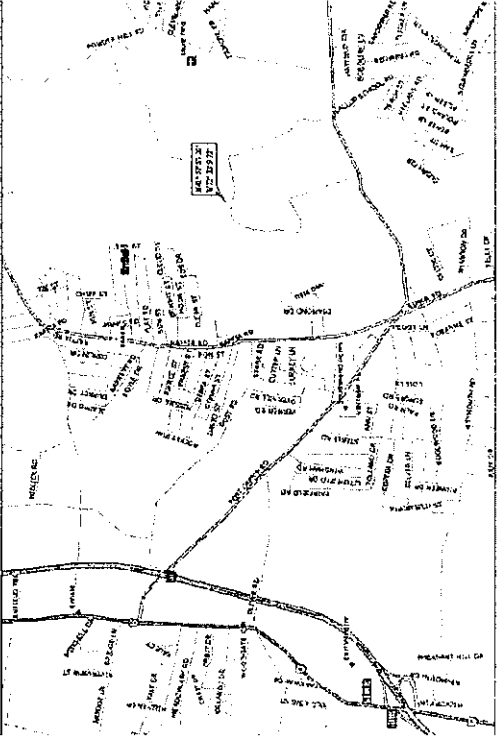
DRAWING INDEX

1	TITLE SHEET
2	SITE PLAN
3	TOWER, ANTENNA, H-FRAME DESIGN
4	GROUNDING PLAN & DETAILS
5	COAX SUPPORT STRUCTURE DETAIL & GROUNDING DETAILS
6	ELECTRICAL SITE PLAN & DETAILS

APPROVALS

REAL ESTATE	_____
RF	_____
OPS/CONSTRUCTION	_____
LEGAL/COMPLIANCE	_____
NET DESIGN	_____

LOCATION MAP



DRIVING DIRECTIONS

FROM HARTFORD TAKE I-84 N. TO EXIT 46. TURN RIGHT OFF EXIT ONTO RT. 5N FOR 1.5 MILES. TURN RIGHT ONTO POST OFFICE ROAD FOR 2.5 MILES. THIS TURNS INTO TOWN FARM ROAD. FOLLOW TOWN FARM ROAD UNTIL YOU REACH THE TOWN FARM ROAD TRANSFER STATION. FOLLOW ROAD AROUND BEHIND TRANSFER STATION TO TOWER. NOTE: GATE AT ENTRANCE IS LOCKED WHEN THE STATION IS CLOSED.

SITE INFORMATION

CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL REGULATIONS AND ORDINANCES. THE EDITION OF THE ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN. 2005 NEC NFPA 70-1; 2000 IECC CODES AND THE 2004 CITY PUBLIC SERVICE ELECTRICAL SERVICE STANDARDS.

BUILDING CODE:
INTERNATIONAL BUILDING CODE (IBC), 2006

ELECTRICAL CODE:
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 2005, NATIONAL ELECTRICAL CODE (NATIONAL FIRE PROTECTION ASSOCIATION) (NFPA) 780 - 2005, LIGHTNING PROTECTION CODE

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR THE ATTACHMENT OF ANTENNAS TO STRUCTURES

TELECOMMUNICATIONS BUILDING AND WIRING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING SYSTEM RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND ELECTRONIC EQUIPMENT

IEEE 1100 (1989), RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C92.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELECOM 0R-1275, GENERAL INSTALLATION REQUIREMENTS

TELECOM 0R-1503, COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM ENVIRONMENTAL PROTECTION

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

SITE INFORMATION

1. THIS SITE IS UNMANNED AND IS RESTRICTED TO OUTDOOR EQUIPMENT. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
2. POCKET COMMUNICATIONS CERTIFIES THAT THIS TELEPHONE EQUIPMENT FACILITY WILL BE SERVICED ONLY BY POCKET COMMUNICATIONS EMPLOYEES AND THE WORK ASSOCIATED WITH ANY EQUIPMENT CANNOT BE PERFORMED BY HANDICAPPED PERSONS. THIS FACILITY WILL BE FREQUENTED ONLY BY SERVICE PERSONNEL FOR REPAIR PURPOSES ONLY. THIS FACILITY IS NOT TO BE USED BY ANY OTHER PERSONS OR FOR ANY OTHER PURPOSES EXCEPT AS SET FORTH IN APPENDIX B, SECTION 4.11(5)(B).
3. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.
4. NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.
5. NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.
6. POCKET COMMUNICATIONS MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER VISIT.



Project ATC 302489
Packet COMMUNICATIONS

Sheet TITLE SHEET

THIS DOCUMENT CONTAINS THE PROJECT'S DESIGN. IT IS THE PROPERTY OF TRIVIS INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.



Checked By: JSM
Drawn By: RCS
Date: 08/08/2008
Job No: 08457
Sheet No: 01

01

CONSTRUCTION NOTES

1. FIELD VERIFICATION: CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, POCKET COMMUNICATIONS ANTENNA LOCATION AND ANTENNA TO BE INSTALLED.
2. COORDINATION OF WORK: CONTRACTOR SHOULD COORDINATE RF WORK AND COMMUNICATIONS WITH THE POCKET COMMUNICATIONS.
3. GRAVEL SURFACE IN AREAS OF COMPOUND THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL CONDITION BY CONTRACTOR.

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
OWNER - GENERAL CONTRACTOR (CONSTRUCTION)
OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE

CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

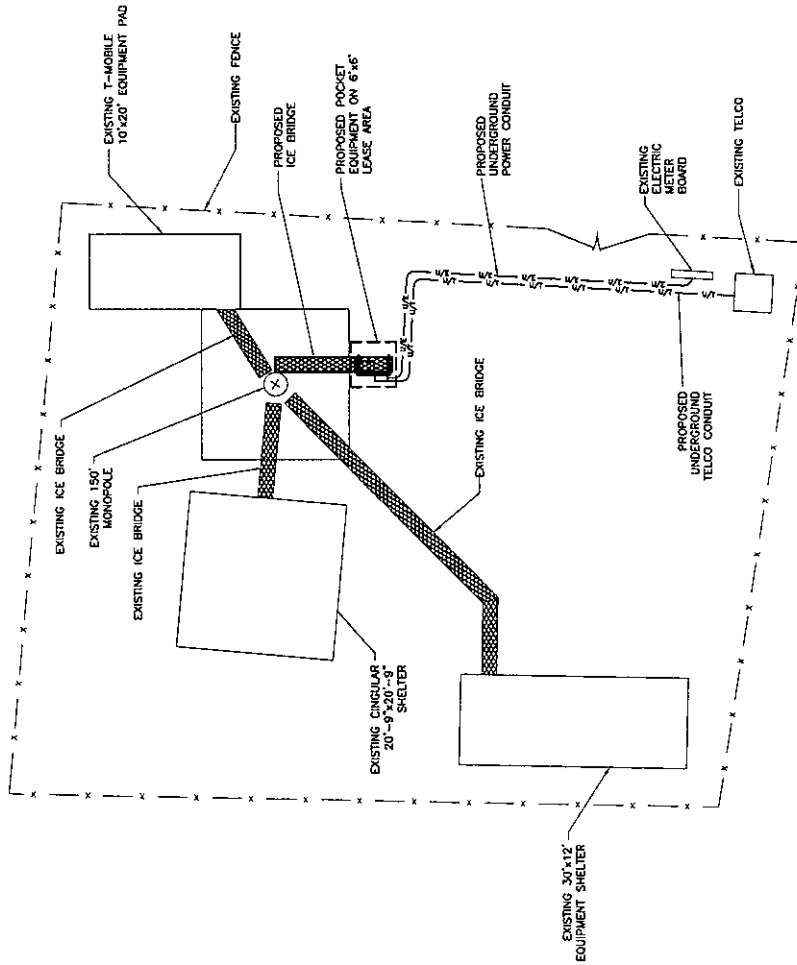
4. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED EQUIPMENT, ON THE DRAWINGS.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH

MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

6. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL.
7. CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING AND TELCO PLAN DRAWING.
8. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, GROUNDING CABLES AS SHOWN ON THE ELECTRICAL PLAN.
9. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS

COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE SITE. ALL ITEMS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

10. CONTRACTOR TO OBTAIN REQUIRED NOTICE TO PROCEED DOCUMENTS FROM THE OWNER OWNER BEFORE COMMENCING CONSTRUCTION.



OVERALL SITE PLAN
11'x17" SCALE: 1/16"=1'-0"
22'x34" SCALE: 1/8"=1'-0"



POCKET COMMUNICATIONS

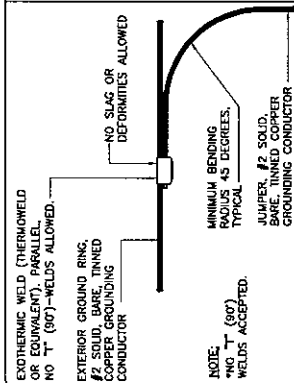
PROJECT ATC 302489
SHEET SITE PLAN

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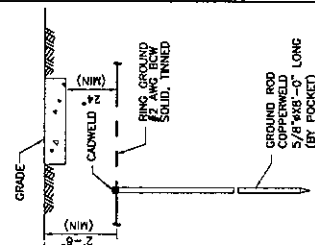
DRAWN BY: JSW
CHECKED BY: RCS
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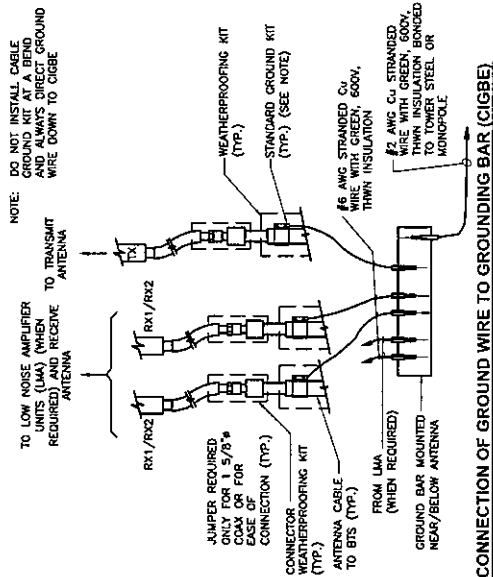
NOTE:
•NO T (90°)
WELDS ACCEPTED.

TYPICAL GROUNDING CONNECTION

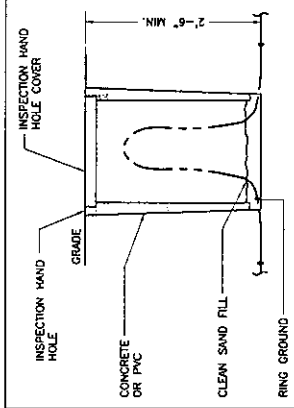


**GROUNDING - STANDARD
DETAIL GROUND ROD**

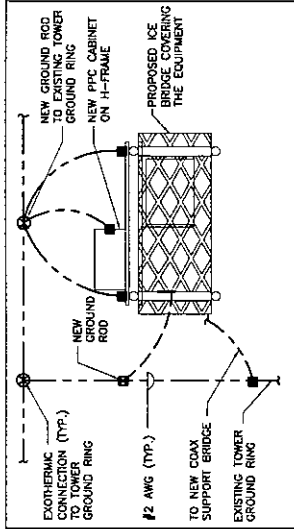
SCALE: N.T.S.



NOTE: DO NOT INSTALL CABLE
GROUND KIT AT A BEND
AND ALWAYS DIRECT GROUND
WIRE DOWN TO CIGBE

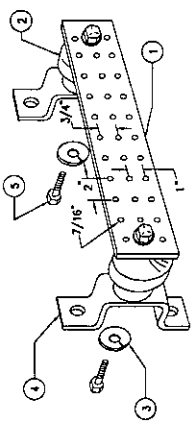
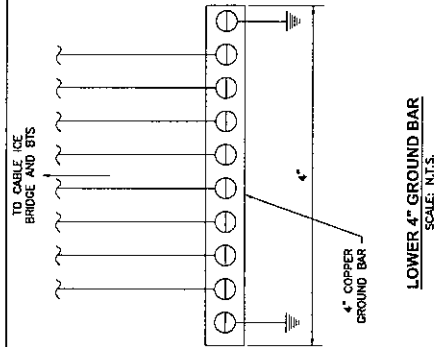


GROUND ROD WITH ACCESS AREA



THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

TYPICAL CABINET GROUNDING



NOTES 1 & 2)

CONNECTION OF CABLE GROUND
KIT TO ANTENNA CABLE

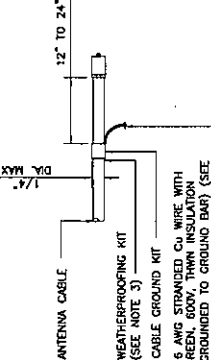
NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

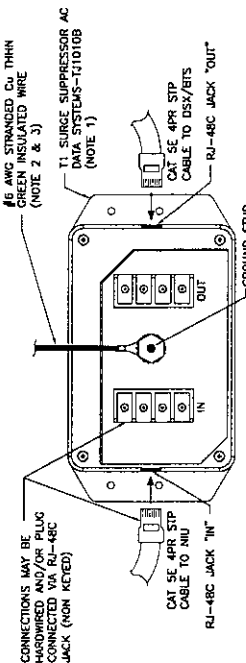
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE



CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE

SCALE: N.T.S.



NOTES:

1. MOUNT T1-TYSS UNIT ON EQUIPMENT FRAME USING THE JOY UNIT, USE APPROPRIATE STAINLESS STEEL BOLTS WITH FLAT WASHERS AND A LOCK WASHER ON THE NUT SIDE. THE TYSS MAY BE LOCATED ON THE TELCO BACKBOARD. REFER TO MANUFACTURER'S INSTRUCTIONS.
2. ATTACH RING TERMINAL FROM SUPPLIED GROUND CONDUCTOR TO TYSS GROUND STUD SECURELY FASTER WITH SUPPLIED WASHER AND NUT. REFER TO TYSS MANUFACTURER'S INSTRUCTIONS FOR THE PROPER TYSS GROUND CONDUCTOR LENGTH SHOULD BE LIMITED TO NO SHARP BENDS ON COILS.
3. WHEN TYSS IS MOUNTED ON EQUIPMENT FRAME, BOND THE GROUND CONDUCTOR TO THE EQUIPMENT FRAME GROUNDING. ENSURE PROPER GROUNDING SURFACES WHEN TYSS IS MOUNTED ON THE TELCO BACK BOARD. THE GROUND CONDUCTOR TO THE TELCO (GROUND) SHOULD BE 8" OR NEAREST GROUND PAD.

T1 SURGE SUPPRESSOR

SCALE: N.T.S.

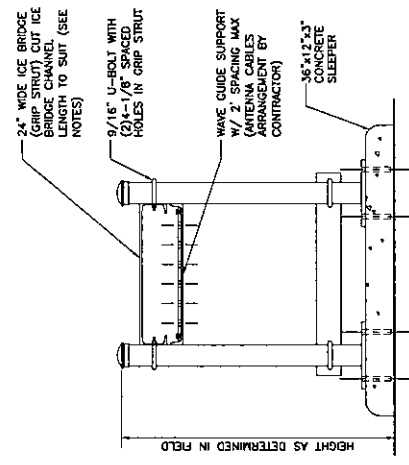
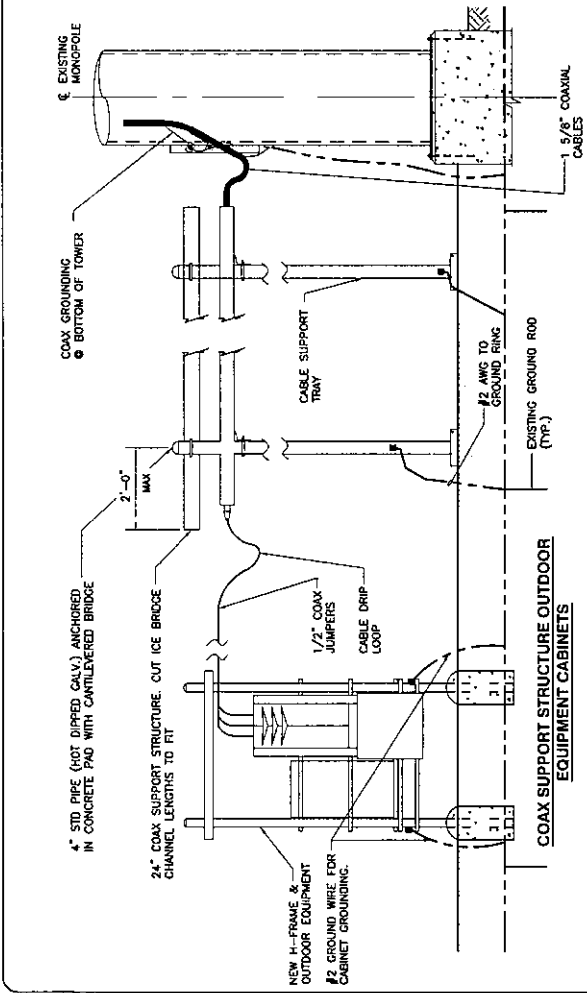
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PROJECT: COAX SUPPORT STRUCTURE
 ATC 302489
 COMMUNICATIONS

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DESIGNED BY: JAW
 DRAWN BY: RCS
 DATE: 08/18/2008
 JOB NO: 08457
 SHEET NO: 05



- NOTES:
1. WHEN USING COMPONENTS AS SHOWN IN STANDARD DETAILS, MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON A CONTINUOUS SINGLE SECTION OF BRIDGE CHANNEL SHALL BE 8 FEET FOR 10 FEET BRIDGE CHANNEL.
 2. WHEN USING COMPONENTS FOR SOLID BRIDGE CHANNEL SECTIONS, THE SPICE SHALL BE PROVIDED FOR THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
 3. WHEN USING COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE BRIDGE CHANNEL AND THE FREE END OF THE ICE BRIDGE.
 4. CUT BRIDGE CHANNEL SECTIONS SHALL HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THESE EDGES TO THE ORIGINAL CHANNEL OR EQUIVALENT, FINISH.
 5. ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM OTHER MANUFACTURERS, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
 6. DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
 7. DEVIATIONS FROM ICE BRIDGE FOUNDATIONS REQUIRE ENGINEERING APPROVAL.
 8. THE DESIGN IS BASED ON ASCE 7-98, 3 SECOND GUST WIND SPEED OF 110 MPH, EXPOSURE C, ELEVATION AT GRADE.
 9. THIS DESIGN IS BASED ON 24" WIDE ICE BRIDGE AND (12) 1 5/8" DIA COAX CABLES AND MAX. POST SUPPORT SPACING OF 10'-0".

DETAIL
 NTS

MONOPOLE GROUNDING DETAIL

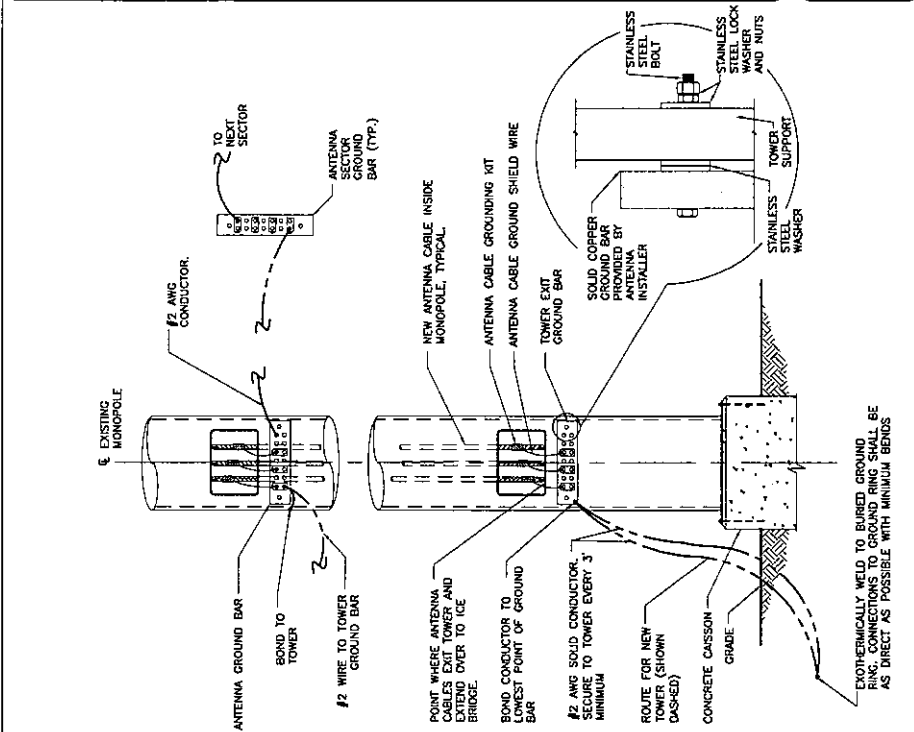


Exhibit C

Equipment Specifications

Pocket Site HFCT0326A

Town Farm Road

Enfield, Connecticut

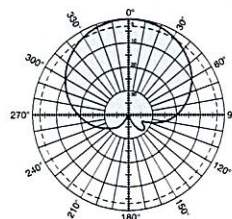
Kathrein's X-polarized adjustable electrical downtilt antennas offer the wireless carrier the ability to tailor polarization diversity sites for optimum performance. Using variable downtilt, only a few models need be procured to accommodate the needs of widely varying conditions. Remotely controlled downtilt is available as a retrofitable option.

- 0-6° downtilt range.
- UV resistant pulltruded fiberglass radome.
- DC Grounded metallic parts for impulse suppression.
- No moving electrical connections.
- Wideband vector dipole technology.
- Optional remote downtilt Control.
- Will accommodate future 3G / UMTS applications.

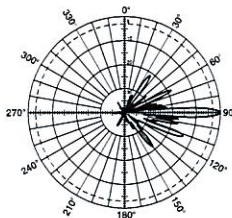
General specifications:

Frequency range	1710–2170 MHz
VSWR	< 1.5:1
Impedance	50 ohms
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Front-to-back ratio (180°±30°)	>30 dB (co-polar) >25 dB (total power)
Maximum input power	300 watts per input (at 50°C)
Electrical downtilt continuously adjustable	0–6 degrees
Connector	2 x 7/16 DIN female
Isolation	>30 dB
Cross polar ratio	
Main direction	0° 25 dB (typical)
Sector	±60° >10 dB
Weight	22 lb (10 kg)
Dimensions	76.5 x 6.1 x 2.7 inches (1942 x 155 x 69 mm)
Equivalent flat plate area	4.62 ft² (0.429 m²)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	87.2 x 6.8 x 3.6 inches (2214 x 172 x 92 mm)
Shipping weight	24.3 lb (11 kg)
Mounting	Fixed and tilt mount options are available for 2 to 4.6 inch (50 to 115 mm) OD masts.

See reverse for order information.



Horizontal pattern
±45°- polarization



Vertical pattern
±45°- polarization



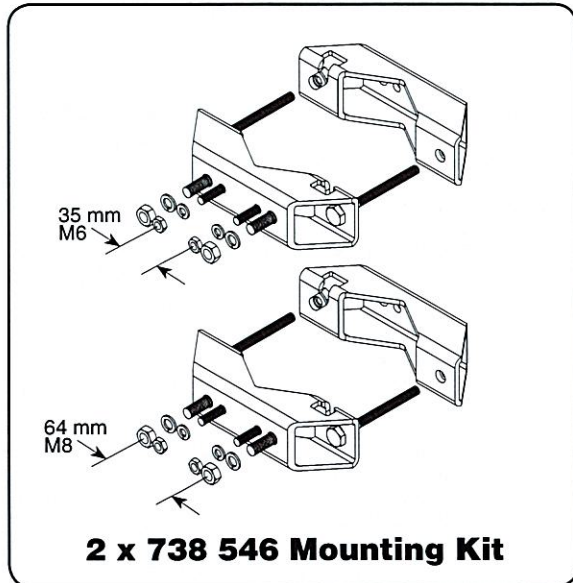
Specifications:	1710–1880 MHz	1850–1990 MHz	1920–2170 MHz
Gain	19 dBi	19.2 dBi	19.5 dBi
+45° and -45° polarization horizontal beamwidth	67° (half-power)	65° (half-power)	63° (half-power)
+45° and -45° polarization vertical beamwidth	4.7° (half-power)	4.5° (half-power)	4.3° (half-power)
Vertical Pattern—sidelobe suppression for first side- lobe above main beam	0° 2° 4° 6° T 18 17 15 15 dB	0° 2° 4° 6° T 18 18 17 15 dB	0° 2° 4° 6° T 18 18 17 15 dB



10642-H
936.2074/h

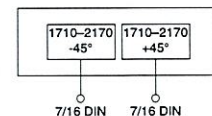
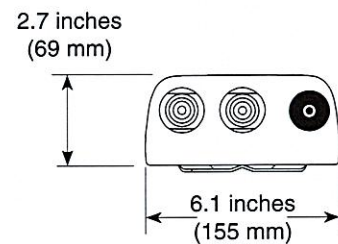
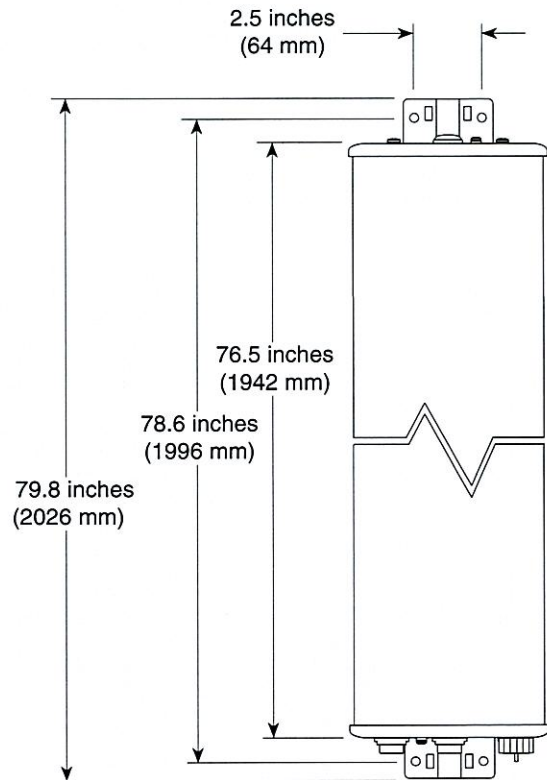


* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



Mounting Options:

Model	Description
2 x 738 546	Mounting Kit for 2 to 4.6 inch (50 to 115 mm) OD mast.
737 978	Tilt Kit for use with the above mounting kit, 0–11 degrees downtilt angle. (requires 2 x 738 546 Mounting Kit)
742 263	Three-panel Sector Mounting Kit (120 deg. ea.) for 3.5 inch (89 mm) OD mast.

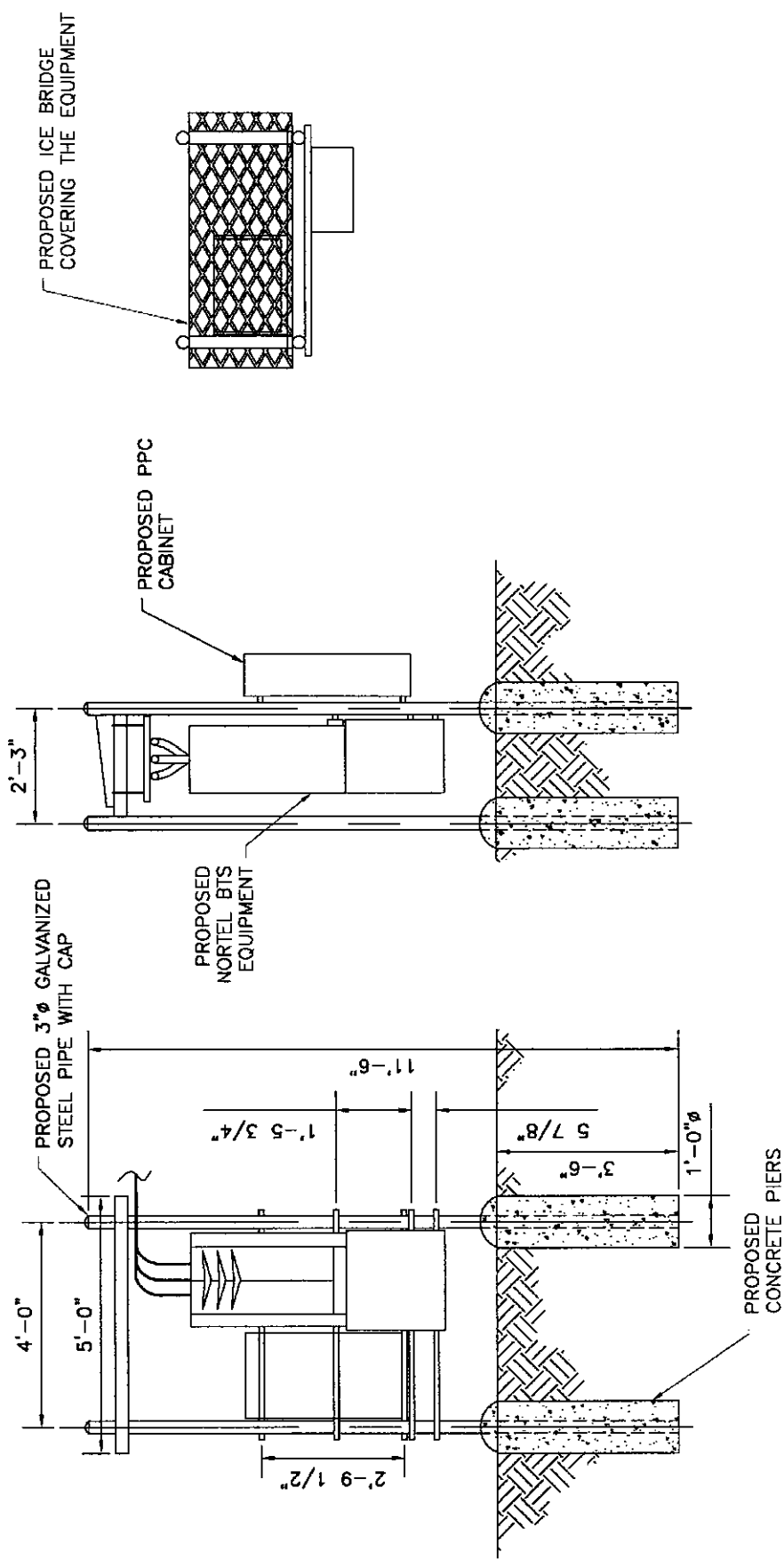


Order Information:

Model	Description
742 213	Antenna with 7/16 DIN connectors 0°–6° adjustable electrical downtilt

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.

Kathrein Inc., Scala Division Post Office Box 4580 Medford, OR 97501 (USA) Phone: (541) 779-6500 Fax: (541) 779-3991
Email: communications@kathrein.com Internet: www.kathrein-scala.com



Pocket/Youghiogheny Communications – Northeast, LLC
Rack Detail



CDMA BTS 3231 AWS 1.7/2.1 GHz (Outdoor/Indoor)

CDMA BTS 3231

Industry's Highest Capacity AWS Micro BTS

The CDMA BTS 3231 is the latest extension to Nortel Networks BTS (Base Transceiver Station) portfolio providing the ideal solution for urban, sub-urban and rural deployments. The CDMA BTS 3231 is a 3-carrier, 3-sector outdoor/indoor BTS operating at the AWS band of 1.7/2.1 GHz supporting IS-95, 1XRTT and 1xEV-DO simultaneously. BTS 3231 provides flexible deployments solutions including floor, rack, and wall mount options. The power consumption of BTS3231 is industry leading consuming only 630W for 3C3S. The BTS 3231 is also very light at 240lbs making it easy

to transport to hard to reach locations such as the top of a high rise building.

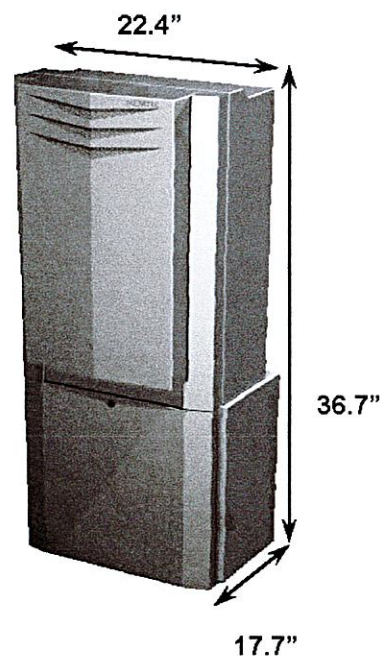


Exhibit D

Power Density Calculations

Pocket Site HFCT0326A

Town Farm Road

Enfield, Connecticut



C Squared Systems, LLC
920 Candia Road
Manchester, NH 03109
Phone: (603) 657 9702
E-mail:

support@csquaredsystems.com

Calculated Radio Frequency Emissions



CT-0326

Town Farm Road, Enfield, CT

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1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed Pocket antennas installed on the existing tower at Town Farm Road, Enfield, CT.

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are much more conservative (higher) than the actual signal levels will be from the finished installation.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (mW/cm^2). The number of mW/cm^2 emitted is called the power density. The general population exposure limit for the cellular band is $0.567\text{--}0.593 \text{ mW}/\text{cm}^2$, and the general population exposure limit for the PCS/AWS band is $1.0 \text{ mW}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

The FCC general population / uncontrolled limits set the maximum exposure to which most people may be subjected. General population / uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Higher exposure limits are permitted under the occupational / controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure (through training), and they must be able to exercise control over their exposure. General population / uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals.”

The FCC describes exposure to radio frequency (RF) energy in terms of percentage of maximum permissible exposure (MPE) with 100% being the maximum allowed. Rather than the FCC presenting the user specification in terms of complex power density figures over a specified surface area, this MPE measure is particularly useful, and even more so when considering that power density limits actually vary by frequency because of the different absorptive properties of the human body at different frequencies.

MPE limits are specified as time-averaged exposure limits. This means that exposure can be averaged over 30 minutes for general population / uncontrolled exposure (or 6 minutes for occupational / controlled exposure). However, for the case of exposure of the general public, time averaging is usually not applied because of uncertainties over exact exposure conditions and difficulty in controlling time of exposure. Therefore, the typical conservative approach is to assume that any RF exposure to the general public will be continuous.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population / uncontrolled exposure and for occupational / controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include limits for Maximum Permissible Exposure (MPE) for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP), the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

Attachment B contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit. As shown in these excerpts, each frequency band has different exposure limits, requiring power density to be reported as a percent of Maximum Permissible Exposure (MPE) when dealing with carriers transmitting in different frequency bands.

3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left(\frac{\text{EIRP}}{\pi \times R^2} \right) \times \text{Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance = $\sqrt{H^2 + V^2}$

H = Horizontal Distance from antenna

V = Vertical Distance from bottom of antenna

Off Beam Loss is determined by the selected antenna patterns

4. Calculation Results

Table 1 below outlines the power assumptions used to compute the power density.

Carrier	Operating Frequency (MHz)	Antenna Height (Feet)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Total ERP (Watts)
Cingular UMTS	880	154	1	500	500
Cingular GSM	880	154	4	296	1184
Cingular GSM	1900	154	2	427	854
SNET Paging	930.9	161	N/A	N/A	N/A
T-Mobile	1935	140	8	243	1944
Verizon cellular	880	130	9	200	1800
Verizon PCS	1900	130	3	485	1455
Pocket	2130-2133.75	122	3	631	1893

Table 1: Proposed Carrier Information

The calculated result for the cumulative %MPE is 22.83%.

Please note that for distances of 100 feet or less, a nominal 10 dB of attenuation due to antenna pattern is assumed. Also, as noted in the introduction, obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels will be from the finished installation.

5. Conclusion

The above analysis verifies that emissions from the proposed site will be well below the maximum power density levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Even when using conservative methods, the cumulative power density from the proposed transmit antennas at the existing facility is well below the limits for the general public. The highest expected percent of Maximum Permissible Exposure at the base of the tower is 22.83% of the FCC limit.

Please note that for distances of 100 feet or less, a nominal 10 dB of attenuation due to antenna pattern is assumed. Also, as noted in the introduction, obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels will be from the finished installation.

6. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.

A handwritten signature in black ink, appearing to read "Daniel I. Goulet", is written over a horizontal line.

Daniel I. Goulet
C Squared Systems, LLC

August 6, 2008

Date

Attachment A: References

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

ANSI C95.1-1982, American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz. IEEE-SA Standards Board

IEEE Std C95.3-1991 (Reaff 1997), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave. IEEE-SA Standards Board

Attachment B: FCC Limits For Maximum Permissible Exposure (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

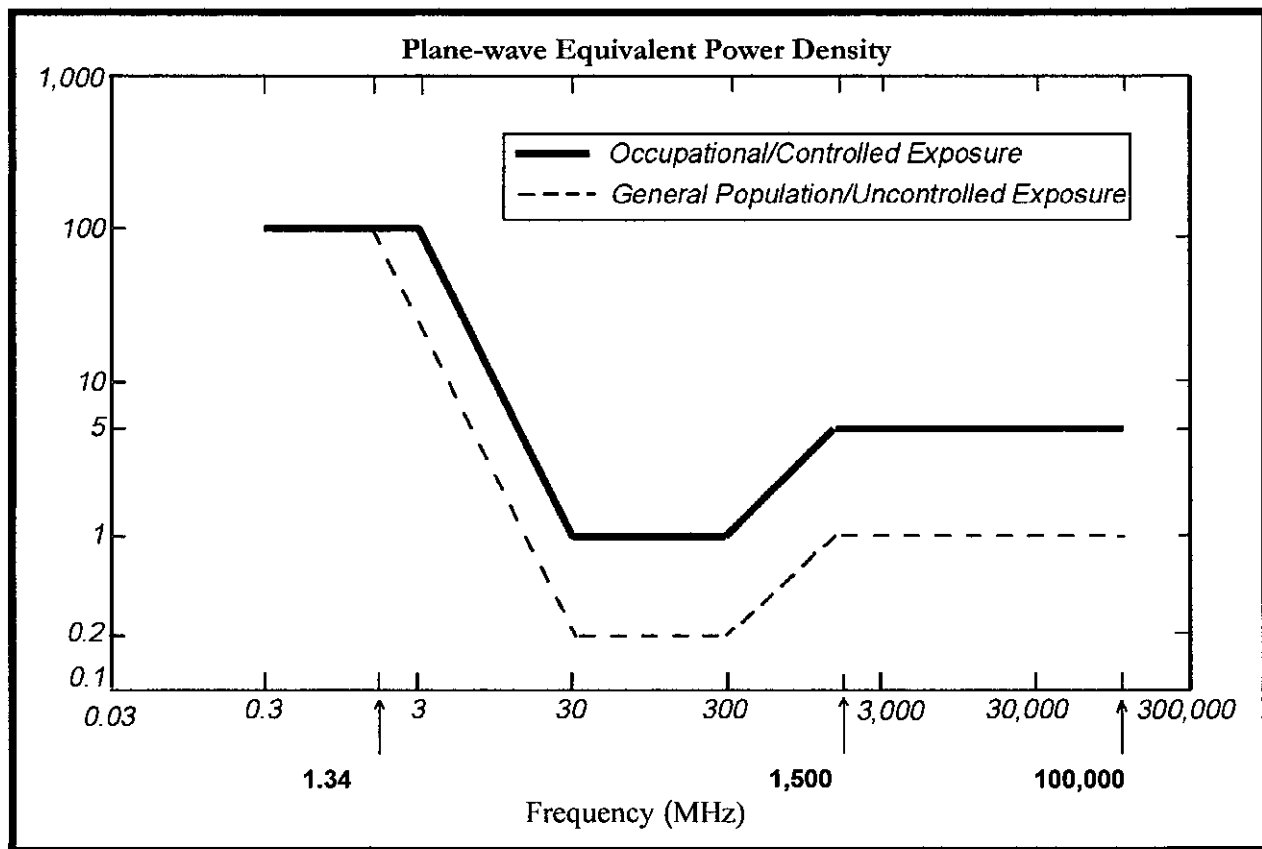
(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz * Plane-wave equivalent power density

NOTE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.



• FCC Limits for Maximum Permissible Exposure (MPE)

Exhibit E

Structural Analysis

Pocket Site HFCT0326A

Town Farm Road

Enfield, Connecticut



AMERICAN TOWER™
C O R P O R A T I O N

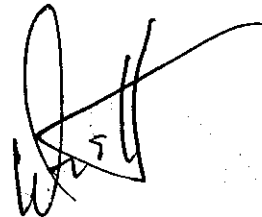
Structural Analysis Report

Structure : 150 ft. ITT Meyer monopole
ATC Site Name : Enfd - Enfield, CT
ATC Site Number : 302489
Proposed Carrier : Youghioghenny
Carrier Site Name : Enfd Enfield
Carrier Site Number : CT0326
County : Hartford
Eng. Number : 42036621
Date : June 4, 2008
Usage : 95% (Pole shaft), 104% (Anchor Bolts),
102% (Reinforcing Bars)

Submitted by:
Robert Keith
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



7/24/08

Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 150 ft. ITT Meyer monopole located at Enfd - Enfield, CT. Hartford County (ATC site # 302489). The tower was originally designed and manufactured by ITT Meyer (Drawing # Type "B"). The tower has been structurally modified per ATC modification Job# 40071628 (dated 12/6/07).

Analysis

The 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: 80.0 mph (Fastest Mile) / 100.0 mph (3-Second Gust)
 Radial Ice: 69.3 mph (Fastest Mile) w/ 1/2" ice
 Code: TIA/EIA-222 Rev F / IBC 2003 with 2005 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
154.0	6	Powerwave LGP-13519	Platform w/ Handrails	-	AT&T Mobility
	6	Powerwave 7770.00		(12) 1-5/8 (I)	
	6	TTA		-	
150.0	1	Decibel DB809-Y		(1) 1-5/8 (I)	USA Mobility
140.0	6	EMS RR90-17-02D	Low Profile Platform	(12) 1-5/8 (I/O)	T-Mobile
132.0	6	Antel LPA-80080/6CF	Low Profile Platform	(6) 1 5/8 (O)	Verizon
	6	Antel LPA-185080/12CF		(6) 1 5/8 (O)	
40.0	1	Channel Master 1.2 M Dish	Dish Mount	(1) RG6 (O)	USA Mobility

Proposed Antennas

Elev. (ft)	Qty	Antennas	Mount	Coax (I/O)	Carrier
122.0	3	Kathrein 742 213	Flush Mount	(6) 1 5/8 (I)	Youghiogheny

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

Install proposed coax inside the pole.

Results

The existing 150 ft. ITT Meyer monopole with the existing and the proposed antennas is structurally acceptable per TIA/EIA-222 Rev F standards. The maximum structure usage is: 95% (Pole shaft), 104% (Anchor bolts), and 102% (Reinforcing bars).

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)	1,197.00	2,635.3	220.2
Shear (kips)	13.10	26.8	204.6

The structure foundation reactions resulting from this analysis exceed the ones shown on the original structural drawings or calculations. The existing foundation was modified per ATC modification Job# 40071628 (dated 12/6/07). Therefore, with the completion of the foundation modifications, the existing foundations were found to be adequate to resist the new reactions.

Conclusion

Based on the analysis results, the structure meets the requirements per TIA/EIA-222 Rev F and IBC 2003 with 2005 CT Supplement standards. The tower and foundation can support the existing and proposed antennas with the TX line distribution as described in this report.

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

Standard Conditions

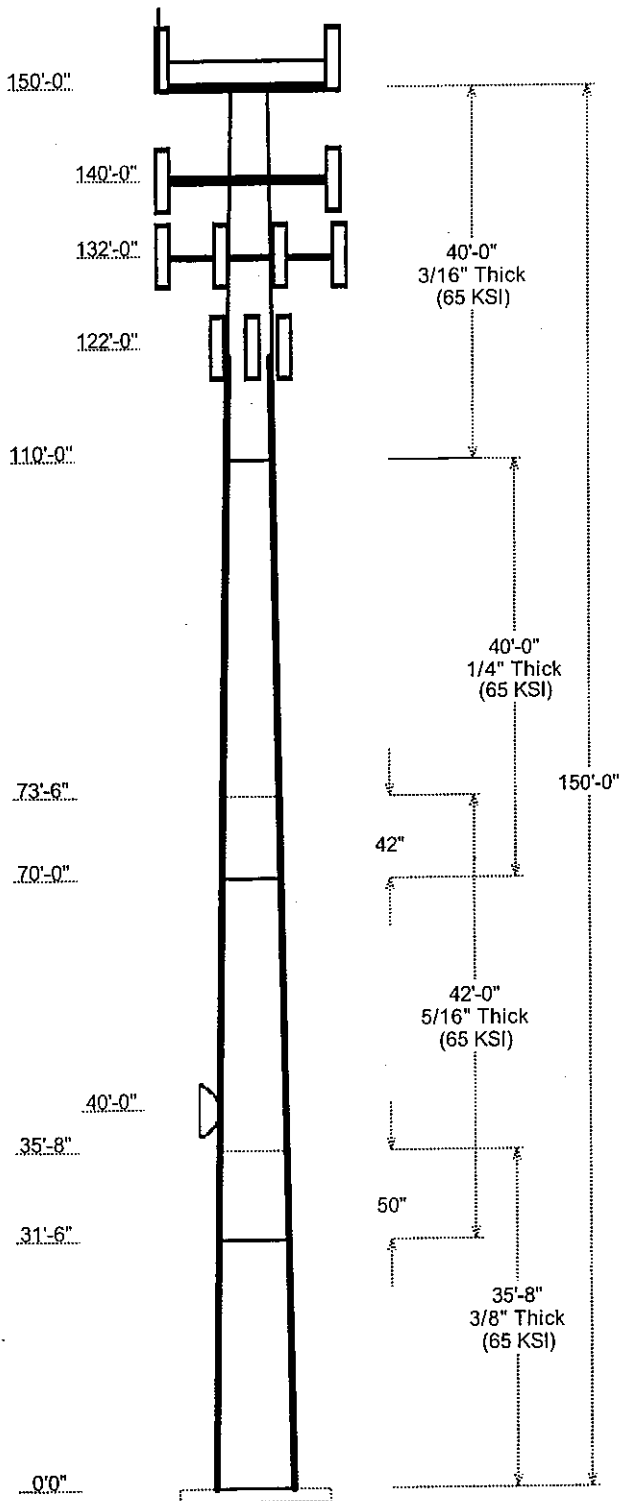
All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- 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 : 302489 Code: TIA/EIA-222 Rev F
 Description : 150' ITT Meyer Type "B" Monopole
 Client : Youghiogheny
 Location : Enfd - Enfield, CT
 Shape : 12 Sides Base Elev (ft): 0.00
 Height : 150.00 (ft) Taper: 0.156700(in/ft)

Sections Properties

Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
		Across	Flats					
1	35.667	31.79	37.38	0.375		0.000	0.156700	65
2	42.000	26.48	33.06	0.313	Slip Joint	50.000	0.156700	65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	0.156700	65
4	40.000	15.00	21.26	0.188	Butt Joint	0.000	0.156700	65

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
150.000	154.000	6	TTA
150.000	154.000	6	Powerwave LGP 13519
150.000	154.000	6	Powerwave 7770-2
150.000	159.710	1	Decibel DB809-Y
150.000	153.000	1	Platform w/ Handrails
140.000	140.000	6	EMS RR90-17-02D
140.000	140.000	1	Low Profile Platform
132.000	132.000	3	Round T-Arm
132.000	132.000	6	Antel LPA-185080/12CF
132.000	132.000	6	Antel LPA-80080/6CF
122.000	122.000	3	Kathrein 742 213
40.000	40.000	1	Channel Master 1.2 M Dish

Linear Appurtenance

Elev (ft)		Description	Exposed To Wind
From	To		
110.0	140.0	1 5/8" Coax	Yes
0.000	150.0	1 5/8" Coax	No
0.000	150.0	1 5/8" Coax	No
0.000	40.000	RG6	Yes
0.000	110.0	1 5/8" Coax	No
0.000	122.0	1 5/8" Coax	No
0.000	125.0	#20 Dywidag bars	Yes
0.000	130.0	1 5/8" Coax	Yes

Load Cases

No Ice	80.00 mph Wind with No Ice
Ice	69.28 mph Wind with Ice
Twist/Sway	50.00 mph Wind with No Ice

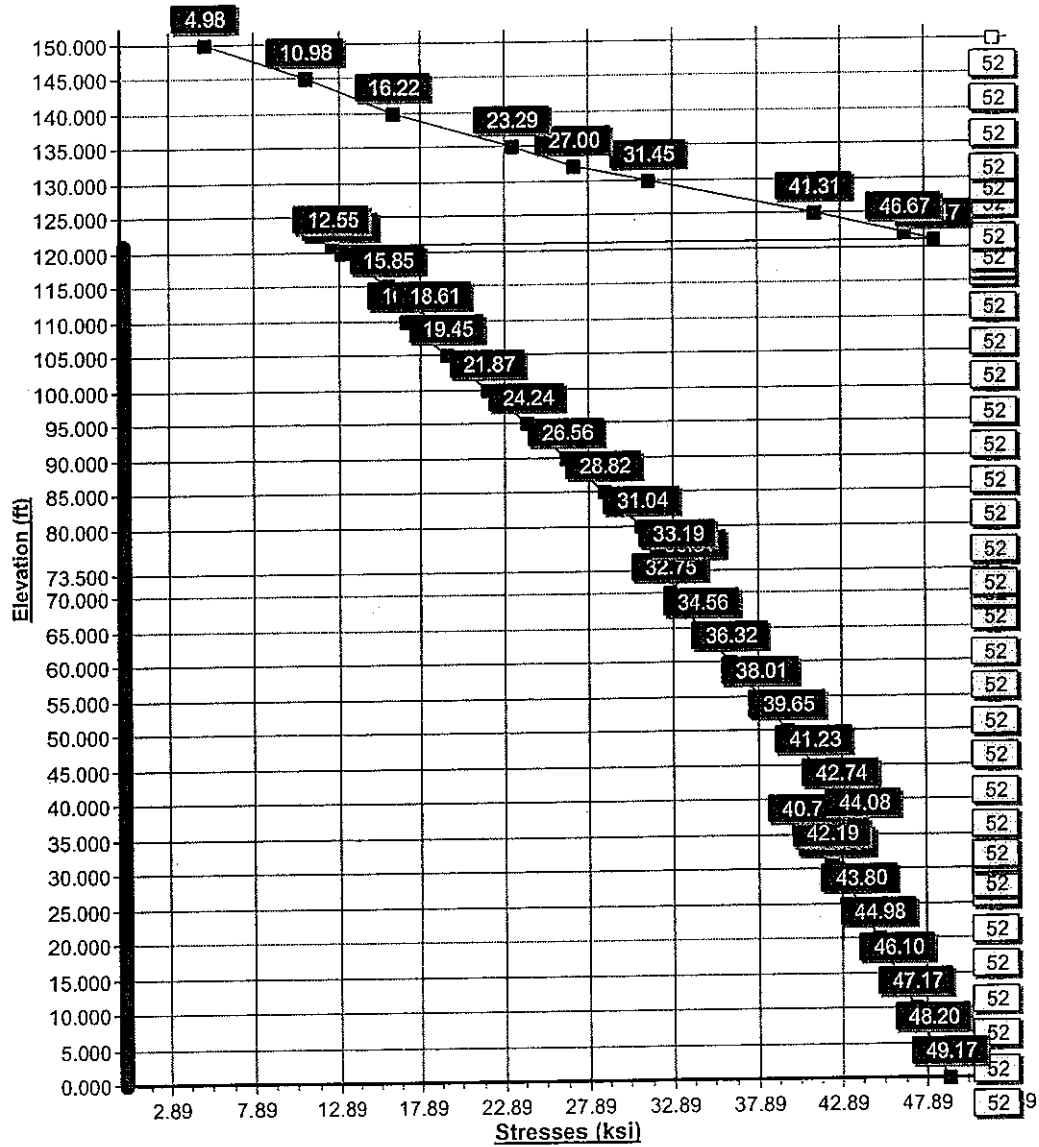
Reactions

Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
No Ice	2635.33	26.80	31.10
Ice	1924.54	17.55	35.54
Twist/Sway	1031.49	10.47	31.16

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
Twist/Sway	40.00	3.814	0.904

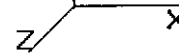
Load Case : No Ice
Max Stress 94.6% at 0.0ft



Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

Code: TIA/EIA-222 Rev F

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 Page: 1



Base Elev : 0.000 (ft)

Shaft Section Properties

Sect Num	Length (ft)	Thick (in)	Fv (ksi)	Joint Type	Slip	Weight (lb)	Bottom				Top				W/t Ratio	D/t Ratio	Taper (in/ft)
					Joint Len (in)		Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	
1	35.667	0.3750	65		0.00	5,014	37.38	0.000	44.68	7810.1	24.57	99.68	31.79	35.66	37.93	4778.9	0.15670
2	42.000	0.3125	65	Slip Joint	50.00	4,237	33.06	31.50	32.96	4514.2	26.21	105.8	26.48	73.50	26.34	2303.3	0.15670
3	40.000	0.2500	65	Slip Joint	42.00	2,646	27.53	70.00	21.97	2087.4	27.37	110.1	21.26	110.0	16.92	954.0	0.15670
4	40.000	0.1875	65	Butt Joint	0.00	1,475	21.26	110.0	12.73	721.9	28.25	113.4	15.00	150.0	8.94	250.5	0.15670
Shaft Weight						13,372											

Discrete Appurtenance Properties

Attach Flev (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)
150.0	TTA	6	18.00	1.550	0.75	30.00	1.680	0.75	0.000	4.000
150.0	Powerwave LGP 13519	6	5.00	0.340	0.81	14.00	0.440	0.81	0.000	4.000
150.0	Powerwave 7770-2	6	35.00	5.941	0.72	67.75	6.597	0.72	0.000	4.000
150.0	Decibel DB809-Y	1	24.00	5.830	1.00	66.00	7.800	1.00	0.000	9.710
150.0	Platform w/ Handrails	1	1800.00	35.000	1.00	2500.00	45.000	1.00	0.000	3.000
140.0	EMS RR90-17-02D	6	15.50	4.356	0.67	37.92	4.988	0.67	0.000	0.000
140.0	Low Profile Platform	1	1200.00	16.000	1.00	1800.00	18.000	1.00	0.000	0.000
132.0	Round T-Arm	3	250.00	9.700	0.75	314.00	12.100	0.75	0.000	0.000
132.0	Antel LPA-185080/12CF	6	40.50	4.300	1.00	66.99	5.100	1.00	0.000	0.000
132.0	Antel LPA-80080/6CF	6	24.00	7.340	1.00	87.32	8.430	1.00	0.000	0.000
122.0	Kathrein 742 213	3	22.00	5.140	0.72	47.15	5.850	0.72	0.000	0.000
40.00	Channel Master 1.2 M Dish	1	188.00	20.910	1.00	277.00	21.790	1.00	0.000	0.000
Totals		46	4856.00			7550.29			Number of Loadings :	12

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Weight (lb/ft)	No Ice CaAa (sf/ft)	Weight (lb/ft)	Ice CaAa (sf/ft)	Exposed To Wind
0.00	150.00	(1) 1 5/8" Coax	0.82	0.00	0.00	0.00	N
0.00	150.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
110.00	140.00	(12) 1 5/8" Coax	9.84	0.20	26.40	0.30	Y
0.00	130.00	(12) 1 5/8" Coax	9.84	0.20	0.00	0.00	Y
0.00	125.00	(4) #20 Dywidag bars	0.00	1.13	0.00	0.00	Y
0.00	122.00	(6) 1 5/8" Coax	4.92	0.00	0.00	0.00	N
0.00	110.00	(12) 1 5/8" Coax	9.84	0.00	0.00	0.00	N
0.00	40.00	(1) RG6	0.03	0.03	0.14	0.00	Y
Total Weight			4,857.18 (lb)		797.60 (lb)		

Additional Steel

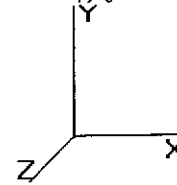
Elev From (ft)	Elev To (ft)	Qty	Description	Fv (ksi)	Offset (in)	Intermediate Connections Description	Spacing (in)	Len (in)	Connectors	Continuation?
0.00	121.0	4	SOL #20 All Thread	80	2.08	6" Angle Bracket	30.0	0.00	5/8" A36 U-Bolt	

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)



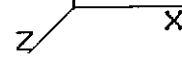
Segment Properties (Max Len : 5 ft)

Seq Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing		
											Area (in^2)	Ix (in^4)	Weight (lb)
0.00		0.3750	37.380	44.684	7,810.1	24.57	99.68	65	52	0.0	19.64	4,769	0.0
5.00		0.3750	36.597	43.737	7,324.4	24.01	97.59	65	52	752.2	19.64	4,601	334.0
10.00		0.3750	35.813	42.791	6,859.3	23.45	95.50	65	52	736.1	19.64	4,436	334.0
15.00		0.3750	35.029	41.845	6,414.3	22.89	93.41	65	52	720.0	19.64	4,274	334.0
20.00		0.3750	34.246	40.899	5,989.0	22.33	91.32	65	52	703.9	19.64	4,115	334.0
25.00		0.3750	33.462	39.953	5,583.0	21.77	89.23	65	52	687.8	19.64	3,959	334.0
30.00		0.3750	32.679	39.007	5,195.7	21.21	87.14	65	52	671.7	19.64	3,806	334.0
31.50	Bot - Section 2	0.3750	32.444	38.723	5,083.1	21.04	86.52	65	52	198.4	19.64	3,761	100.2
35.00		0.3750	31.895	38.061	4,826.7	20.65	85.05	65	52	846.4	19.64	3,776	233.8
35.67	Top - Section 1	0.3125	32.416	32.304	4,249.6	25.65	103.73	65	52	159.7	19.64	3,756	44.6
40.00		0.3125	31.737	31.621	3,985.6	25.07	101.56	65	52	471.3	19.64	3,627	289.4
45.00		0.3125	30.953	30.833	3,694.9	24.40	99.05	65	52	531.3	19.64	3,480	334.0
50.00		0.3125	30.170	30.044	3,418.6	23.73	96.54	65	52	517.9	19.64	3,337	334.0
55.00		0.3125	29.386	29.256	3,156.5	23.05	94.04	65	52	504.5	19.64	3,197	334.0
60.00		0.3125	28.603	28.467	2,908.1	22.38	91.53	65	52	491.0	19.64	3,060	334.0
65.00		0.3125	27.819	27.679	2,673.1	21.71	89.02	65	52	477.6	19.64	2,926	334.0
70.00		0.3125	27.036	26.891	2,451.2	21.04	86.52	65	52	464.2	19.64	2,795	334.0
70.00	Bot - Section 3	0.3125	27.036	26.890	2,451.1	21.04	86.52	65	52	0.0	19.64	2,795	0.0
73.50	Top - Section 2	0.2500	26.987	21.524	1,964.0	26.78	107.95	65	52	575.9	19.64	2,787	233.8
75.00		0.2500	26.752	21.335	1,912.7	26.53	107.01	65	52	109.4	19.64	2,748	100.2
80.00		0.2500	25.969	20.704	1,748.0	25.69	103.88	65	52	357.6	19.64	2,621	334.0
85.00		0.2500	25.185	20.073	1,593.1	24.85	100.74	65	52	346.9	19.64	2,497	334.0
90.00		0.2500	24.402	19.442	1,447.6	24.01	97.61	65	52	336.2	19.64	2,376	334.0
95.00		0.2500	23.618	18.812	1,311.2	23.17	94.47	65	52	325.4	19.64	2,258	334.0
100.00		0.2500	22.835	18.181	1,183.7	22.33	91.34	65	52	314.7	19.64	2,143	334.0
105.00		0.2500	22.051	17.550	1,064.7	21.49	88.21	65	52	304.0	19.64	2,031	334.0
110.00		0.2500	21.268	16.919	954.0	20.65	85.07	65	52	293.2	19.64	1,922	334.0
110.00	Top - Section 3	0.2500	21.268	16.919	954.0	20.65	85.07	65	52	0.0	19.64	1,922	0.0
110.00	Bot - Section 4	0.1875	21.268	12.727	721.9	28.25	113.43	65	52	0.0	19.64	1,922	0.0
115.00		0.1875	20.484	12.254	644.4	27.13	109.25	65	52	212.5	19.64	1,816	334.0
120.00		0.1875	19.701	11.781	572.6	26.01	105.07	65	52	204.5	19.64	1,713	334.0
121.00	Reinf. Top	0.1875	19.544	11.687	558.9	25.79	104.24	65	52	39.9	19.64	1,693	66.8
122.00		0.1875	19.388	11.592	545.4	25.56	103.40	65	52	39.6			
125.00		0.1875	18.917	11.308	506.4	24.89	100.89	65	52	116.9			
130.00		0.1875	18.134	10.835	445.4	23.77	96.71	65	52	188.4			
132.00		0.1875	17.821	10.646	422.5	23.32	95.04	65	52	73.1			
135.00		0.1875	17.350	10.362	389.6	22.65	92.54	65	52	107.2			
140.00		0.1875	16.567	9.889	338.6	21.53	88.36	65	52	172.3			
145.00		0.1875	15.783	9.416	292.3	20.41	84.18	65	52	164.2			
150.00		0.1875	15.000	8.943	250.5	19.29	80.00	65	52	156.2			
										13,372.1	8,082.8		

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: No Ice

80.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

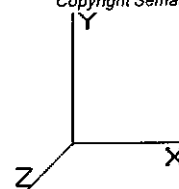
Shaft Segment Forces

Seg Top Elev (ft)	Description	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		0.00	1.00 16.384	27.68 249.20	1.030		0.00	0.00	0.000	0.00	0.0	0.0	0.0
5.00		0.00	1.00 16.384	27.68 243.97	1.030		0.00	5.00	15.412	15.87	439.5	0.0	1,086.2
10.00		0.00	1.00 16.384	27.68 238.75	1.030		0.00	5.00	15.085	15.54	430.2	0.0	1,070.1
15.00		0.00	1.00 16.384	27.68 233.53	1.030		0.00	5.00	14.759	15.20	420.9	0.0	1,054.0
20.00		0.00	1.00 16.384	27.68 228.30	1.030		0.00	5.00	14.432	14.87	411.6	0.0	1,037.9
25.00		0.00	1.00 16.384	27.68 223.08	1.030		0.00	5.00	14.106	14.53	402.3	0.0	1,021.8
30.00		0.00	1.00 16.384	27.68 217.86	1.030		0.00	5.00	13.779	14.19	393.0	0.0	1,005.7
31.50	Bot - Section 2	0.00	1.00 16.384	27.68 216.29	1.030		0.00	1.50	4.071	4.19	116.1	0.0	298.6
35.00		0.00	1.01 16.662	28.15 214.43	1.030		0.00	3.50	9.564	9.85	277.4	0.0	1,080.2
35.67	Top - Section 1	0.00	1.02 16.752	28.31 214.30	1.030		0.00	0.67	1.805	1.86	52.6	0.0	204.2
40.00	Appertunance(s)	0.00	1.05 17.310	29.25 217.47	1.030		0.00	4.33	11.582	11.93	349.0	0.0	760.7
45.00		0.00	1.09 17.902	30.25 215.70	1.030		0.00	5.00	13.061	13.45	407.0	0.0	865.3
50.00		0.00	1.12 18.449	31.17 213.43	1.030		0.00	5.00	12.734	13.12	408.9	0.0	851.9
55.00		0.00	1.15 18.959	32.04 210.74	1.030		0.00	5.00	12.408	12.78	409.5	0.0	838.5
60.00		0.00	1.18 19.436	32.84 207.68	1.030		0.00	5.00	12.081	12.44	408.7	0.0	825.0
65.00		0.00	1.21 19.885	33.60 204.32	1.030		0.00	5.00	11.755	12.11	406.9	0.0	811.6
70.00		0.00	1.24 20.311	34.32 200.68	1.030		0.00	5.00	11.428	11.77	404.0	0.0	798.2
70.00	Bot - Section 3	0.00	1.24 20.311	34.32 200.68	1.030		0.00	0.00	0.001	0.00	0.0	0.0	0.1
73.50	Top - Section 2	0.00	1.25 20.596	34.80 197.98	1.030		0.00	3.50	7.951	8.19	285.1	0.0	809.7
75.00		0.00	1.26 20.715	35.00 200.54	1.030		0.00	1.50	3.358	3.46	121.1	0.0	209.5
80.00		0.00	1.28 21.101	35.66 196.47	1.030		0.00	5.00	10.984	11.31	403.4	0.0	691.6
85.00		0.00	1.31 21.469	36.28 192.20	1.030		0.00	5.00	10.657	10.98	398.3	0.0	680.9
90.00		0.00	1.33 21.823	36.88 187.75	1.030		0.00	5.00	10.331	10.64	392.4	0.0	670.2
95.00		0.00	1.35 22.163	37.45 183.13	1.030		0.00	5.00	10.004	10.30	386.0	0.0	659.4
100.0		0.00	1.37 22.490	38.00 178.35	1.030		0.00	5.00	9.678	9.97	378.9	0.0	648.7
105.0		0.00	1.39 22.806	38.54 173.44	1.030		0.00	5.00	9.351	9.63	371.2	0.0	638.0
110.0		0.00	1.41 23.111	39.05 168.39	1.030		0.00	5.00	9.025	9.30	363.1	0.0	627.2
110.0	Top - Section 3	0.00	1.41 23.111	39.05 168.39	1.030		0.00	0.00	0.001	0.00	0.0	0.0	0.0
115.0		0.00	1.42 23.406	39.55 163.22	1.030		0.00	5.00	8.698	8.96	354.4	0.0	546.5
120.0		0.00	1.44 23.692	40.04 157.94	1.030		0.00	5.00	8.372	8.62	345.3	0.0	538.5
121.0	Reinf. Top	0.00	1.45 23.749	40.13 156.87	1.030		0.00	1.00	1.635	1.68	67.6	0.0	106.7
122.0	Appertunance(s)	0.00	1.45 23.805	40.23 155.79	1.030		0.00	1.00	1.622	1.67	67.2	0.0	39.6
125.0		0.00	1.46 23.970	40.51 152.54	1.030		0.00	3.00	4.788	4.93	199.8	0.0	116.9
130.0		0.00	1.48 24.241	40.96 147.04	1.030		0.00	5.00	7.719	7.95	325.7	0.0	188.4
132.0	Appertunance(s)	0.00	1.48 24.347	41.14 144.82	1.030		0.00	2.00	2.996	3.09	127.0	0.0	73.1
135.0		0.00	1.49 24.503	41.41 141.45	1.030		0.00	3.00	4.396	4.53	187.5	0.0	107.2
140.0	Appertunance(s)	0.00	1.51 24.759	41.84 135.77	1.030		0.00	5.00	7.066	7.28	304.5	0.0	172.3
145.0		0.00	1.52 25.009	42.26 130.00	1.030		0.00	5.00	6.740	6.94	293.4	0.0	164.2
150.0	Appertunance(s)	0.00	1.54 25.252	42.67 124.14	1.030		0.00	5.00	6.413	6.61	281.9	0.0	156.2
Totals:								150.00			11,391.5	0.0	21,454.9

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: No Ice

80.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

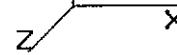
Discrete Appurtenance Segment Forces

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
40.00	Channel Master 1.2 M	1	17.310	29.253	1.00	20.91	0.000	0.000	611.69	0.00	0.00	188.00
122.0	Kathrein 742 213	3	23.805	40.230	0.72	11.10	0.000	0.000	446.65	0.00	0.00	66.00
132.0	Round T-Arm	3	24.347	41.146	0.75	21.82	0.000	0.000	897.99	0.00	0.00	750.00
132.0	Antel LPA-185080/12C	6	24.347	41.146	1.00	25.80	0.000	0.000	1,061.56	0.00	0.00	243.00
132.0	Antel LPA-80080/6CF	6	24.347	41.146	1.00	44.04	0.000	0.000	1,812.05	0.00	0.00	144.00
140.0	EMS RR90-17-02D	6	24.759	41.843	0.67	17.51	0.000	0.000	732.72	0.00	0.00	93.00
140.0	Low Profile Platform	1	24.759	41.843	1.00	16.00	0.000	0.000	669.49	0.00	0.00	1,200.00
150.0	TTA	6	25.443	42.998	0.75	6.97	0.000	4.000	299.91	0.00	1,199.65	108.00
150.0	Powerwave LGP	6	25.443	42.998	0.81	1.65	0.000	4.000	71.05	0.00	284.20	30.00
150.0	Powerwave 7770-2	6	25.443	42.998	0.72	25.67	0.000	4.000	1,103.56	0.00	4,414.23	210.00
150.0	Decibel DB809-Y	1	25.709	43.448	1.00	5.83	0.000	9.710	253.30	0.00	2,459.56	24.00
150.0	Platform w/ Handrail	1	25.395	42.918	1.00	35.00	0.000	3.000	1,502.14	0.00	4,506.43	1,800.00
									9,462.12			4,856.00

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
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 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: No Ice

80.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

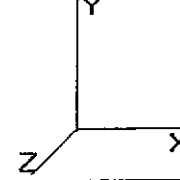
Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	F X (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	16.384	27.69	49.20
5.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	16.384	156.44	0.00
5.00	(1) RG6	Yes	5.00	0.03	0.03	16.384	4.15	0.14
10.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	16.384	27.69	49.20
10.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	16.384	156.44	0.00
10.00	(1) RG6	Yes	5.00	0.03	0.03	16.384	4.15	0.14
15.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	16.384	27.69	49.20
15.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	16.384	156.44	0.00
15.00	(1) RG6	Yes	5.00	0.03	0.03	16.384	4.15	0.14
20.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	16.384	27.69	49.20
20.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	16.384	156.44	0.00
20.00	(1) RG6	Yes	5.00	0.03	0.03	16.384	4.15	0.14
25.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	16.384	27.69	49.20
25.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	16.384	156.44	0.00
25.00	(1) RG6	Yes	5.00	0.03	0.03	16.384	4.15	0.14
30.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	16.384	27.69	49.20
30.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	16.384	156.44	0.00
30.00	(1) RG6	Yes	5.00	0.03	0.03	16.384	4.15	0.14
31.50	(12) 1 5/8" Coax	Yes	1.50	9.84	0.20	16.384	8.31	14.76
31.50	(4) #20 Dywidag bars	Yes	1.50	0.00	1.13	16.384	46.94	0.00
31.50	(1) RG6	Yes	1.50	0.03	0.03	16.384	1.25	0.04
35.00	(12) 1 5/8" Coax	Yes	3.50	9.84	0.20	16.662	19.71	34.44
35.00	(4) #20 Dywidag bars	Yes	3.50	0.00	1.13	16.662	111.36	0.00
35.00	(1) RG6	Yes	3.50	0.03	0.03	16.662	2.96	0.10
35.67	(12) 1 5/8" Coax	Yes	0.67	9.84	0.20	16.752	3.78	6.56
35.67	(4) #20 Dywidag bars	Yes	0.67	0.00	1.13	16.752	21.34	0.00
35.67	(1) RG6	Yes	0.67	0.03	0.03	16.752	0.57	0.02
40.00	(12) 1 5/8" Coax	Yes	4.33	9.84	0.20	17.310	25.35	42.64
40.00	(4) #20 Dywidag bars	Yes	4.33	0.00	1.13	17.310	143.23	0.00
40.00	(1) RG6	Yes	4.33	0.03	0.03	17.310	3.80	0.13
45.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	17.902	30.25	49.20
45.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	17.902	170.94	0.00
50.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	18.449	31.18	49.20
50.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	18.449	176.16	0.00
55.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	18.959	32.04	49.20
55.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	18.959	181.03	0.00
60.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	19.436	32.85	49.20
60.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	19.436	185.58	0.00
65.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	19.885	33.61	49.20
65.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	19.885	189.88	0.00
70.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	20.311	34.33	49.20
70.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	20.311	193.94	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	9.84	0.20	20.311	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.00	1.13	20.311	0.01	0.00
73.50	(12) 1 5/8" Coax	Yes	3.50	9.84	0.20	20.596	24.37	34.44
73.50	(4) #20 Dywidag bars	Yes	3.50	0.00	1.13	20.596	137.66	0.00
75.00	(12) 1 5/8" Coax	Yes	1.50	9.84	0.20	20.715	10.50	14.76
75.00	(4) #20 Dywidag bars	Yes	1.50	0.00	1.13	20.715	59.33	0.00
80.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	21.101	35.66	49.20
80.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	21.101	201.48	0.00
85.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	21.469	36.28	49.20

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: No Ice

80.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

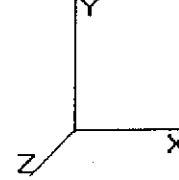
85.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	21.469	205.00	0.00
90.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	21.823	36.88	49.20
90.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	21.823	208.38	0.00
95.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	22.163	37.45	49.20
95.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	22.163	211.62	0.00
100.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	22.490	38.01	49.20
100.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	22.490	214.74	0.00
105.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	22.806	38.54	49.20
105.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	22.806	217.76	0.00
110.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	23.111	39.06	49.20
110.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	23.111	220.67	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	9.84	0.20	23.111	0.00	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	9.84	0.20	23.111	0.00	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	0.00	1.13	23.111	0.01	0.00
115.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	23.406	39.55	49.20
115.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	23.406	39.55	49.20
115.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	23.406	223.48	0.00
120.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	23.692	40.04	49.20
120.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	23.692	40.04	49.20
120.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	23.692	226.23	0.00
121.0	(12) 1 5/8" Coax	Yes	1.00	9.84	0.20	23.749	8.03	9.84
121.0	(12) 1 5/8" Coax	Yes	1.00	9.84	0.20	23.749	8.03	9.84
121.0	(4) #20 Dywidag bars	Yes	1.00	0.00	1.13	23.749	45.35	0.00
122.0	(12) 1 5/8" Coax	Yes	1.00	9.84	0.20	23.805	8.05	9.84
122.0	(12) 1 5/8" Coax	Yes	1.00	9.84	0.20	23.805	8.05	9.84
122.0	(4) #20 Dywidag bars	Yes	1.00	0.00	1.13	23.805	45.46	0.00
125.0	(12) 1 5/8" Coax	Yes	3.00	9.84	0.20	23.970	24.31	29.52
125.0	(12) 1 5/8" Coax	Yes	3.00	9.84	0.20	23.970	24.31	29.52
125.0	(4) #20 Dywidag bars	Yes	3.00	0.00	1.13	23.970	137.33	0.00
130.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	24.241	40.97	49.20
130.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	24.241	40.97	49.20
132.0	(12) 1 5/8" Coax	Yes	2.00	9.84	0.20	24.347	16.46	19.68
135.0	(12) 1 5/8" Coax	Yes	3.00	9.84	0.20	24.503	24.85	29.52
140.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	24.759	41.84	49.20

Totals: 5,866.38 1,575.56

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: No Ice

80.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

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	627.82	1,262.63	0.00	0.00
10.00	618.51	1,246.54	0.00	0.00
15.00	609.20	1,230.44	0.00	0.00
20.00	599.89	1,214.34	0.00	0.00
25.00	590.58	1,198.25	0.00	0.00
30.00	581.27	1,182.15	0.00	0.00
31.50	172.60	351.59	0.00	0.00
35.00	411.41	1,203.70	0.00	0.00
35.67	78.31	227.77	0.00	0.00
40.00	1,133.06	1,101.61	0.00	0.00
45.00	608.19	1,041.59	0.00	0.00
50.00	616.29	1,028.17	0.00	0.00
55.00	622.53	1,014.76	0.00	0.00
60.00	627.16	1,001.34	0.00	0.00
65.00	630.36	987.93	0.00	0.00
70.00	632.31	974.52	0.00	0.00
70.00	0.04	0.06	0.00	0.00
73.50	447.10	933.15	0.00	0.00
75.00	190.91	262.41	0.00	0.00
80.00	640.57	867.91	0.00	0.00
85.00	639.56	857.18	0.00	0.00
90.00	637.69	846.45	0.00	0.00
95.00	635.03	835.72	0.00	0.00
100.0	631.62	824.99	0.00	0.00
105.0	627.53	814.26	0.00	0.00
110.0	622.79	803.53	0.00	0.00
110.0	0.04	0.05	0.00	0.00
115.0	656.96	722.77	0.00	0.00
120.0	651.58	714.77	0.00	0.00
121.0	129.01	141.99	0.00	0.00
122.0	575.42	140.87	0.00	0.00
125.0	385.73	207.91	0.00	0.00
130.0	407.64	340.07	0.00	0.00
132.0	3,915.04	1,251.10	0.00	0.00
135.0	212.37	168.73	0.00	0.00
140.0	1,748.60	1,567.78	0.00	0.00
145.0	293.40	217.53	0.00	0.00
150.0	3,511.87	2,381.48	0.00	12,864.07
Totals:	26,720.01	31,168.05	0.00	12,864.07

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
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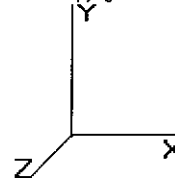
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Base Elev : 0.000 (ft)



Load Case: No Ice

80.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-26.800	-31.098	0.000	0.000	0.000	-2,635.334	0.000	0.000	0.000	0.000
5.00	-26.319	-29.704	0.000	0.000	0.000	-2,501.339	-0.156	0.000	0.156	-0.290
10.00	-25.835	-28.332	0.000	0.000	0.000	-2,369.744	-0.616	0.000	0.616	-0.581
15.00	-25.347	-26.981	0.000	0.000	0.000	-2,240.570	-1.380	0.000	1.380	-0.871
20.00	-24.856	-25.653	0.000	0.000	0.000	-2,113.835	-2.448	0.000	2.448	-1.161
25.00	-24.361	-24.346	0.000	0.000	0.000	-1,989.557	-3.819	0.000	3.819	-1.450
30.00	-23.822	-23.103	0.000	0.000	0.000	-1,867.755	-5.492	0.000	5.492	-1.737
31.50	-23.696	-22.697	0.000	0.000	0.000	-1,832.014	-6.052	0.000	6.052	-1.825
35.00	-23.289	-21.460	0.000	0.000	0.000	-1,749.087	-7.466	0.000	7.466	-2.027
35.67	-23.255	-21.177	0.000	0.000	0.000	-1,733.553	-7.752	0.000	7.752	-2.065
40.00	-22.176	-20.016	0.000	0.000	0.000	-1,632.789	-9.739	0.000	9.739	-2.308
45.00	-21.620	-18.891	0.000	0.000	0.000	-1,521.912	-12.314	0.000	12.314	-2.603
50.00	-21.045	-17.788	0.000	0.000	0.000	-1,413.813	-15.196	0.000	15.196	-2.894
55.00	-20.453	-16.706	0.000	0.000	0.000	-1,308.589	-18.380	0.000	18.380	-3.180
60.00	-19.845	-15.646	0.000	0.000	0.000	-1,206.327	-21.861	0.000	21.861	-3.462
65.00	-19.223	-14.609	0.000	0.000	0.000	-1,107.104	-25.633	0.000	25.633	-3.738
70.00	-18.558	-13.637	0.000	0.000	0.000	-1,010.989	-29.690	0.000	29.690	-4.007
70.00	-18.580	-13.606	0.000	0.000	0.000	-1,010.982	-29.690	0.000	29.690	-4.007
73.50	-18.097	-12.666	0.000	0.000	0.000	-945.951	-32.695	0.000	32.695	-4.192
75.00	-17.925	-12.364	0.000	0.000	0.000	-918.813	-34.024	0.000	34.024	-4.271
80.00	-17.272	-11.469	0.000	0.000	0.000	-829.189	-38.637	0.000	38.637	-4.537
85.00	-16.611	-10.594	0.000	0.000	0.000	-742.830	-43.523	0.000	43.523	-4.793
90.00	-15.944	-9.740	0.000	0.000	0.000	-659.774	-48.670	0.000	48.670	-5.037
95.00	-15.271	-8.905	0.000	0.000	0.000	-580.056	-54.064	0.000	54.064	-5.268
100.0	-14.594	-8.090	0.000	0.000	0.000	-503.702	-59.691	0.000	59.691	-5.484
105.0	-13.915	-7.294	0.000	0.000	0.000	-430.731	-65.535	0.000	65.535	-5.683
110.0	-13.224	-6.537	0.000	0.000	0.000	-361.157	-71.577	0.000	71.577	-5.865
110.0	-13.234	-6.518	0.000	0.000	0.000	-361.152	-71.578	0.000	71.578	-5.865
115.0	-12.522	-5.832	0.000	0.000	0.000	-294.987	-77.799	0.000	77.799	-6.028
120.0	-11.806	-5.173	0.000	0.000	0.000	-232.378	-84.186	0.000	84.186	-6.180
121.0	-11.665	-5.040	0.000	0.000	0.000	-220.572	-85.482	0.000	85.482	-6.208
122.0	-11.092	-4.930	0.000	0.000	0.000	-208.907	-86.783	0.000	86.783	-6.235
125.0	-10.716	-4.698	0.000	0.000	0.000	-175.632	-90.792	0.000	90.792	-6.536
130.0	-10.292	-4.360	0.000	0.000	0.000	-122.052	-97.856	0.000	97.856	-6.954
132.0	-6.264	-3.579	0.000	0.000	0.000	-101.469	-100.794	0.000	100.794	-7.097
135.0	-6.045	-3.415	0.000	0.000	0.000	-82.678	-105.304	0.000	105.304	-7.283
140.0	-4.116	-2.071	0.000	0.000	0.000	-52.453	-113.050	0.000	113.050	-7.530
145.0	-3.802	-1.885	0.000	0.000	0.000	-31.872	-121.013	0.000	121.013	-7.707
150.0	-3.512	0.000	0.000	0.000	0.000	-12.864	-129.126	0.000	129.126	-7.816

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
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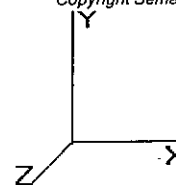
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Base Elev : 0.000 (ft)



Load Case: No Ice

80.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)		Stress Ratio
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.48	1.22	0.00	0.00	0.00	48.64	49.17	52.0	0.0	0.946
5.00	0.47	1.22	0.00	0.00	0.00	47.68	48.20	52.0	0.0	0.927
10.00	0.45	1.23	0.00	0.00	0.00	46.67	47.17	52.0	0.0	0.907
15.00	0.44	1.23	0.00	0.00	0.00	45.61	46.10	52.0	0.0	0.887
20.00	0.42	1.23	0.00	0.00	0.00	44.50	44.98	52.0	0.0	0.865
25.00	0.41	1.24	0.00	0.00	0.00	43.34	43.80	52.0	0.0	0.842
30.00	0.39	1.24	0.00	0.00	0.00	42.11	42.56	52.0	0.0	0.819
31.50	0.39	1.24	0.00	0.00	0.00	41.74	42.19	52.0	0.0	0.811
35.00	0.37	1.24	0.00	0.00	0.00	40.28	40.71	52.0	0.0	0.783
35.67	0.41	1.46	0.00	0.00	0.00	43.60	44.08	52.0	0.0	0.848
40.00	0.39	1.42	0.00	0.00	0.00	42.28	42.74	52.0	0.0	0.822
45.00	0.37	1.42	0.00	0.00	0.00	40.78	41.23	52.0	0.0	0.793
50.00	0.36	1.42	0.00	0.00	0.00	39.22	39.65	52.0	0.0	0.763
55.00	0.34	1.42	0.00	0.00	0.00	37.59	38.01	52.0	0.0	0.731
60.00	0.33	1.42	0.00	0.00	0.00	35.91	36.32	52.0	0.0	0.698
65.00	0.31	1.41	0.00	0.00	0.00	34.17	34.56	52.0	0.0	0.665
70.00	0.29	1.40	0.00	0.00	0.00	32.36	32.75	52.0	0.0	0.630
70.00	0.29	1.40	0.00	0.00	0.00	32.36	32.75	52.0	0.0	0.630
73.50	0.31	1.71	0.00	0.00	0.00	33.38	33.81	52.0	0.0	0.650
75.00	0.30	1.71	0.00	0.00	0.00	32.76	33.19	52.0	0.0	0.638
80.00	0.28	1.70	0.00	0.00	0.00	30.61	31.04	52.0	0.0	0.597
85.00	0.27	1.68	0.00	0.00	0.00	28.41	28.82	52.0	0.0	0.554
90.00	0.25	1.67	0.00	0.00	0.00	26.15	26.56	52.0	0.0	0.511
95.00	0.23	1.65	0.00	0.00	0.00	23.84	24.24	52.0	0.0	0.466
100.00	0.21	1.63	0.00	0.00	0.00	21.47	21.87	52.0	0.0	0.421
105.00	0.20	1.61	0.00	0.00	0.00	19.06	19.45	52.0	0.0	0.374
110.00	0.18	1.59	0.00	0.00	0.00	16.59	16.99	52.0	0.0	0.327
110.00	0.18	1.59	0.00	0.00	0.00	16.59	16.99	52.0	0.0	0.327
110.00	0.20	2.11	0.00	0.00	0.00	18.04	18.61	52.0	0.0	0.358
115.00	0.18	2.08	0.00	0.00	0.00	15.25	15.85	52.0	0.0	0.305
120.00	0.16	2.04	0.00	0.00	0.00	12.44	13.09	52.0	0.0	0.252
121.00	0.16	2.03	0.00	0.00	0.00	11.89	12.55	52.0	0.0	0.241
121.00	0.43	2.03	0.00	0.00	0.00	47.91	48.47	52.0	0.0	0.932
122.00	0.43	1.94	0.00	0.00	0.00	46.12	46.67	52.0	0.0	0.898
125.00	0.42	1.93	0.00	0.00	0.00	40.76	41.31	52.0	0.0	0.794
130.00	0.40	1.93	0.00	0.00	0.00	30.86	31.45	52.0	0.0	0.605
132.00	0.34	1.20	0.00	0.00	0.00	26.58	27.00	52.0	0.0	0.519
135.00	0.33	1.19	0.00	0.00	0.00	22.87	23.29	52.0	0.0	0.448
140.00	0.21	0.85	0.00	0.00	0.00	15.94	16.22	52.0	0.0	0.312
145.00	0.20	0.82	0.00	0.00	0.00	10.69	10.98	52.0	0.0	0.211
150.00	0.00	0.80	0.00	0.00	0.00	4.79	4.98	52.0	0.0	0.096

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
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 Taper : 0.156700 (in/ft)

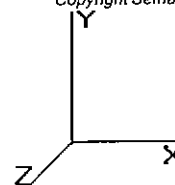
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Page: 10

Base Elev : 0.000 (ft)



Load Case: Ice

69.28 mph Wind with Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Shaft Segment Forces

Seg Top Elev (ft)	Description	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		0.00	1.00 12.287	20.76 215.80	1.030		0.50	0.00	0.000	0.00	0.0	0.0	0.0
5.00		0.00	1.00 12.287	20.76 211.28	1.030		0.50	5.00	15.828	16.30	338.5	116.1	1,202.3
10.00		0.00	1.00 12.287	20.76 206.76	1.030		0.50	5.00	15.502	15.97	331.6	113.7	1,183.8
15.00		0.00	1.00 12.287	20.76 202.23	1.030		0.50	5.00	15.176	15.63	324.6	111.2	1,165.2
20.00		0.00	1.00 12.287	20.76 197.71	1.030		0.50	5.00	14.849	15.29	317.6	108.8	1,146.7
25.00		0.00	1.00 12.287	20.76 193.19	1.030		0.50	5.00	14.523	14.96	310.6	106.3	1,128.1
30.00		0.00	1.00 12.287	20.76 188.66	1.030		0.50	5.00	14.196	14.62	303.6	103.9	1,109.6
31.50	Bot - Section 2	0.00	1.00 12.287	20.76 187.30	1.030		0.50	1.50	4.196	4.32	89.7	30.9	329.6
35.00		0.00	1.01 12.496	21.11 185.69	1.030		0.50	3.50	9.856	10.15	214.4	72.4	1,152.6
35.67	Top - Section 1	0.00	1.02 12.563	21.23 185.58	1.030		0.50	0.67	1.860	1.92	40.7	13.7	218.0
40.00	Appertunance(s)	0.00	1.05 12.982	21.93 188.33	1.030		0.50	4.33	11.943	12.30	269.9	87.5	848.2
45.00		0.00	1.09 13.426	22.69 186.80	1.030		0.50	5.00	13.477	13.88	315.0	98.5	963.8
50.00		0.00	1.12 13.836	23.38 184.83	1.030		0.50	5.00	13.151	13.55	316.7	96.0	947.9
55.00		0.00	1.15 14.218	24.02 182.50	1.030		0.50	5.00	12.824	13.21	317.4	93.6	932.0
60.00		0.00	1.18 14.576	24.63 179.85	1.030		0.50	5.00	12.498	12.87	317.1	91.1	916.2
65.00		0.00	1.21 14.913	25.20 176.94	1.030		0.50	5.00	12.171	12.54	316.0	88.7	900.3
70.00		0.00	1.24 15.232	25.74 173.79	1.030		0.50	5.00	11.845	12.20	314.1	86.2	884.4
70.00	Bot - Section 3	0.00	1.24 15.232	25.74 173.78	1.030		0.50	0.00	0.001	0.00	0.0	0.0	0.1
73.50	Top - Section 2	0.00	1.25 15.446	26.10 171.45	1.030		0.50	3.50	8.243	8.49	221.6	60.2	870.0
75.00		0.00	1.26 15.536	26.25 173.67	1.030		0.50	1.50	3.483	3.59	94.2	25.6	235.1
80.00		0.00	1.28 15.825	26.74 170.14	1.030		0.50	5.00	11.400	11.74	314.0	82.9	774.5
85.00		0.00	1.31 16.101	27.21 166.44	1.030		0.50	5.00	11.074	11.41	310.4	80.4	761.3
90.00		0.00	1.33 16.366	27.65 162.59	1.030		0.50	5.00	10.747	11.07	306.2	78.0	748.1
95.00		0.00	1.35 16.621	28.09 158.59	1.030		0.50	5.00	10.421	10.73	301.5	75.5	734.9
100.0		0.00	1.37 16.866	28.50 154.45	1.030		0.50	5.00	10.094	10.40	296.4	73.1	721.7
105.0		0.00	1.39 17.103	28.90 150.20	1.030		0.50	5.00	9.768	10.06	290.8	70.6	708.6
110.0		0.00	1.41 17.332	29.29 145.83	1.030		0.50	5.00	9.442	9.72	284.9	68.1	695.4
110.0	Top - Section 3	0.00	1.41 17.332	29.29 145.83	1.030		0.50	0.00	0.001	0.00	0.0	0.0	0.0
115.0		0.00	1.42 17.554	29.66 141.35	1.030		0.50	5.00	9.114	9.39	278.5	65.7	612.2
120.0		0.00	1.44 17.768	30.02 136.77	1.030		0.50	5.00	8.789	9.05	271.8	63.2	601.7
121.0	Reinf. Top	0.00	1.45 17.811	30.10 135.84	1.030		0.50	1.00	1.719	1.77	53.3	12.5	119.3
122.0	Appertunance(s)	0.00	1.45 17.852	30.17 134.91	1.030		0.50	1.00	1.705	1.76	53.0	12.5	52.1
125.0		0.00	1.46 17.977	30.38 132.10	1.030		0.50	3.00	5.038	5.19	157.7	36.5	153.4
130.0		0.00	1.48 18.179	30.72 127.34	1.030		0.50	5.00	4.136	8.38	257.5	58.3	246.7
132.0	Appertunance(s)	0.00	1.48 18.259	30.85 125.41	1.030		0.50	2.00	3.163	3.26	100.5	22.9	96.0
135.0		0.00	1.49 18.376	31.05 122.50	1.030		0.50	3.00	4.646	4.79	148.6	33.5	140.8
140.0	Appertunance(s)	0.00	1.51 18.568	31.38 117.57	1.030		0.50	5.00	7.483	7.71	241.9	53.4	225.7
145.0		0.00	1.52 18.755	31.69 112.58	1.030		0.50	5.00	7.156	7.37	233.6	51.0	215.2
150.0	Appertunance(s)	0.00	1.54 18.938	32.00 107.51	1.030		0.50	5.00	6.830	7.03	225.2	48.5	204.7
Totals:								150.00			8,878.9	2,491.0	23,945.9

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

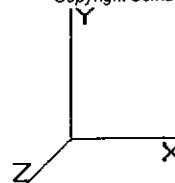
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Page: 11

Base Elev : 0.000 (ft)



Load Case: Ice

69.28 mph Wind with Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Discrete Appurtenance Segment Forces

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
40.00	Channel Master 1.2 M	1	12.982	21.939	1.00	21.79	0.000	0.000	478.04	0.00	0.00	277.00
122.0	Kathrein 742 213	3	17.852	30.171	0.72	12.64	0.000	0.000	381.24	0.00	0.00	141.45
132.0	Round T-Arm	3	18.259	30.857	0.75	27.23	0.000	0.000	840.09	0.00	0.00	942.00
132.0	Antel LPA-185080/12C	6	18.259	30.857	1.00	30.60	0.000	0.000	944.24	0.00	0.00	401.92
132.0	Antel LPA-80080/6CF	6	18.259	30.857	1.00	50.58	0.000	0.000	1,560.77	0.00	0.00	523.93
140.0	EMS RR90-17-02D	6	18.568	31.381	0.67	20.05	0.000	0.000	629.24	0.00	0.00	227.51
140.0	Low Profile Platform	1	18.568	31.381	1.00	18.00	0.000	0.000	564.85	0.00	0.00	1,800.00
150.0	TTA	6	19.081	32.247	0.75	7.56	0.000	4.000	243.79	0.00	975.14	180.00
150.0	Powerwave LGP	6	19.081	32.247	0.81	2.14	0.000	4.000	68.96	0.00	275.83	84.00
150.0	Powerwave 7770-2	6	19.081	32.247	0.72	28.50	0.000	4.000	919.00	0.00	3,676.02	406.48
150.0	Decibel DB809-Y	1	19.280	32.584	1.00	7.80	0.000	9.710	254.16	0.00	2,467.85	66.00
150.0	Platform w/ Handrail	1	19.045	32.187	1.00	45.00	0.000	3.000	1,448.41	0.00	4,345.23	2,500.00
									8,332.78			7,550.29

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
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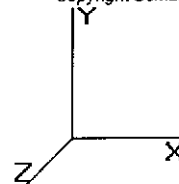
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Page: 12

Base Elev : 0.000 (ft)



Load Case: Ice

69.28 mph Wind with Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	F X (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	12.287	0.00	0.00
5.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	12.287	0.00	0.00
5.00	(1) RG6	Yes	5.00	0.14	0.00	12.287	0.00	0.70
10.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	12.287	0.00	0.00
10.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	12.287	0.00	0.00
10.00	(1) RG6	Yes	5.00	0.14	0.00	12.287	0.00	0.70
15.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	12.287	0.00	0.00
15.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	12.287	0.00	0.00
15.00	(1) RG6	Yes	5.00	0.14	0.00	12.287	0.00	0.70
20.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	12.287	0.00	0.00
20.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	12.287	0.00	0.00
20.00	(1) RG6	Yes	5.00	0.14	0.00	12.287	0.00	0.70
25.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	12.287	0.00	0.00
25.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	12.287	0.00	0.00
25.00	(1) RG6	Yes	5.00	0.14	0.00	12.287	0.00	0.70
30.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	12.287	0.00	0.00
30.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	12.287	0.00	0.00
30.00	(1) RG6	Yes	5.00	0.14	0.00	12.287	0.00	0.70
31.50	(12) 1 5/8" Coax	Yes	1.50	0.00	0.00	12.287	0.00	0.00
31.50	(4) #20 Dywidag bars	Yes	1.50	0.00	0.00	12.287	0.00	0.00
31.50	(1) RG6	Yes	1.50	0.14	0.00	12.287	0.00	0.21
35.00	(12) 1 5/8" Coax	Yes	3.50	0.00	0.00	12.496	0.00	0.00
35.00	(4) #20 Dywidag bars	Yes	3.50	0.00	0.00	12.496	0.00	0.00
35.00	(1) RG6	Yes	3.50	0.14	0.00	12.496	0.00	0.49
35.67	(12) 1 5/8" Coax	Yes	0.67	0.00	0.00	12.563	0.00	0.00
35.67	(4) #20 Dywidag bars	Yes	0.67	0.00	0.00	12.563	0.00	0.00
35.67	(1) RG6	Yes	0.67	0.14	0.00	12.563	0.00	0.09
40.00	(12) 1 5/8" Coax	Yes	4.33	0.00	0.00	12.982	0.00	0.00
40.00	(4) #20 Dywidag bars	Yes	4.33	0.00	0.00	12.982	0.00	0.00
40.00	(1) RG6	Yes	4.33	0.14	0.00	12.982	0.00	0.61
45.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	13.426	0.00	0.00
45.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	13.426	0.00	0.00
50.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	13.836	0.00	0.00
50.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	13.836	0.00	0.00
55.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	14.218	0.00	0.00
55.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	14.218	0.00	0.00
60.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	14.576	0.00	0.00
60.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	14.576	0.00	0.00
65.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	14.913	0.00	0.00
65.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	14.913	0.00	0.00
70.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	15.232	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	15.232	0.00	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	0.00	0.00	15.232	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.00	0.00	15.232	0.00	0.00
73.50	(12) 1 5/8" Coax	Yes	3.50	0.00	0.00	15.446	0.00	0.00
73.50	(4) #20 Dywidag bars	Yes	3.50	0.00	0.00	15.446	0.00	0.00
75.00	(12) 1 5/8" Coax	Yes	1.50	0.00	0.00	15.536	0.00	0.00
75.00	(4) #20 Dywidag bars	Yes	1.50	0.00	0.00	15.536	0.00	0.00
80.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	15.825	0.00	0.00
80.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	15.825	0.00	0.00
85.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	16.101	0.00	0.00

85.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	16.101	0.00	0.00
90.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	16.366	0.00	0.00
90.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	16.366	0.00	0.00
95.00	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	16.621	0.00	0.00
95.00	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	16.621	0.00	0.00
100.0	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	16.866	0.00	0.00
100.0	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	16.866	0.00	0.00
105.0	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	17.103	0.00	0.00
105.0	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	17.103	0.00	0.00
110.0	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	17.332	0.00	0.00
110.0	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	17.332	0.00	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	26.40	0.30	17.332	0.00	0.01
110.0	(12) 1 5/8" Coax	Yes	0.00	0.00	0.00	17.332	0.00	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	0.00	0.00	17.332	0.00	0.00
115.0	(12) 1 5/8" Coax	Yes	5.00	26.40	0.30	17.554	44.50	131.99
115.0	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	17.554	0.00	0.00
115.0	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	17.554	0.00	0.00
120.0	(12) 1 5/8" Coax	Yes	5.00	26.40	0.30	17.768	45.04	132.00
120.0	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	17.768	0.00	0.00
120.0	(4) #20 Dywidag bars	Yes	5.00	0.00	0.00	17.768	0.00	0.00
121.0	(12) 1 5/8" Coax	Yes	1.00	26.40	0.30	17.811	9.03	26.40
121.0	(12) 1 5/8" Coax	Yes	1.00	0.00	0.00	17.811	0.00	0.00
121.0	(4) #20 Dywidag bars	Yes	1.00	0.00	0.00	17.811	0.00	0.00
122.0	(12) 1 5/8" Coax	Yes	1.00	26.40	0.30	17.852	9.05	26.40
122.0	(12) 1 5/8" Coax	Yes	1.00	0.00	0.00	17.852	0.00	0.00
122.0	(4) #20 Dywidag bars	Yes	1.00	0.00	0.00	17.852	0.00	0.00
125.0	(12) 1 5/8" Coax	Yes	3.00	26.40	0.30	17.977	27.34	79.20
125.0	(12) 1 5/8" Coax	Yes	3.00	0.00	0.00	17.977	0.00	0.00
125.0	(4) #20 Dywidag bars	Yes	3.00	0.00	0.00	17.977	0.00	0.00
130.0	(12) 1 5/8" Coax	Yes	5.00	26.40	0.30	18.179	46.08	132.00
130.0	(12) 1 5/8" Coax	Yes	5.00	0.00	0.00	18.179	0.00	0.00
132.0	(12) 1 5/8" Coax	Yes	2.00	26.40	0.30	18.259	18.51	52.80
135.0	(12) 1 5/8" Coax	Yes	3.00	26.40	0.30	18.376	27.95	79.20
140.0	(12) 1 5/8" Coax	Yes	5.00	26.40	0.30	18.568	47.07	132.00
Totals:							274.59	797.60

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

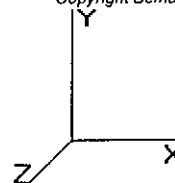
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Page: 14

Base Elev : 0.000 (ft)



Load Case: Ice

69.28 mph Wind with Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

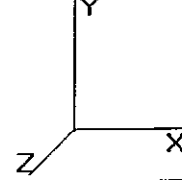
Applied Segment Forces Summary

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	338.55	1,330.12	0.00	0.00
10.00	331.56	1,311.57	0.00	0.00
15.00	324.58	1,293.02	0.00	0.00
20.00	317.60	1,274.47	0.00	0.00
25.00	310.62	1,255.93	0.00	0.00
30.00	303.63	1,237.38	0.00	0.00
31.50	89.75	367.94	0.00	0.00
35.00	214.38	1,242.01	0.00	0.00
35.67	40.68	235.03	0.00	0.00
40.00	747.93	1,235.91	0.00	0.00
45.00	314.97	1,090.85	0.00	0.00
50.00	316.73	1,074.99	0.00	0.00
55.00	317.39	1,059.12	0.00	0.00
60.00	317.10	1,043.25	0.00	0.00
65.00	315.96	1,027.39	0.00	0.00
70.00	314.07	1,011.52	0.00	0.00
70.00	0.02	0.07	0.00	0.00
73.50	221.63	958.95	0.00	0.00
75.00	94.19	273.24	0.00	0.00
80.00	314.03	901.58	0.00	0.00
85.00	310.37	888.39	0.00	0.00
90.00	306.18	875.21	0.00	0.00
95.00	301.50	862.03	0.00	0.00
100.0	296.37	848.84	0.00	0.00
105.0	290.81	835.66	0.00	0.00
110.0	284.85	822.48	0.00	0.00
110.0	0.02	0.06	0.00	0.00
115.0	322.99	822.05	0.00	0.00
120.0	316.87	811.61	0.00	0.00
121.0	62.31	161.26	0.00	0.00
122.0	443.29	235.49	0.00	0.00
125.0	185.00	264.54	0.00	0.00
130.0	303.54	432.01	0.00	0.00
132.0	3,464.14	2,038.00	0.00	0.00
135.0	176.58	251.94	0.00	0.00
140.0	1,483.02	2,438.51	0.00	0.00
145.0	233.64	268.50	0.00	0.00
150.0	3,159.46	3,494.49	0.00	11,740.06
Totals:	17,486.29	35,575.39	0.00	11,740.06

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: Ice

69.28 mph Wind with Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

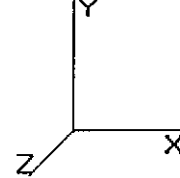
Calculated Shaft Forces and Deflections

Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-17.553	-35.542	0.000	0.000	0.000	-1.924.542	0.000	0.000	0.000	0.000
5.00	-17.339	-34.148	0.000	0.000	0.000	-1.836.781	-0.114	0.000	0.114	-0.213
10.00	-17.123	-32.775	0.000	0.000	0.000	-1.750.088	-0.451	0.000	0.451	-0.427
15.00	-16.904	-31.421	0.000	0.000	0.000	-1.664.476	-1.013	0.000	1.013	-0.642
20.00	-16.684	-30.089	0.000	0.000	0.000	-1.579.955	-1.801	0.000	1.801	-0.857
25.00	-16.461	-28.776	0.000	0.000	0.000	-1.496.538	-2.815	0.000	2.815	-1.074
30.00	-16.200	-27.505	0.000	0.000	0.000	-1.414.234	-4.056	0.000	4.056	-1.291
31.50	-16.154	-27.109	0.000	0.000	0.000	-1.389.930	-4.472	0.000	4.472	-1.357
35.00	-15.949	-25.847	0.000	0.000	0.000	-1.333.399	-5.525	0.000	5.525	-1.511
35.67	-15.951	-25.583	0.000	0.000	0.000	-1.322.761	-5.738	0.000	5.738	-1.540
40.00	-15.256	-24.314	0.000	0.000	0.000	-1.253.649	-7.222	0.000	7.222	-1.726
45.00	-14.998	-23.175	0.000	0.000	0.000	-1.177.371	-9.152	0.000	9.152	-1.953
50.00	-14.729	-22.054	0.000	0.000	0.000	-1.102.385	-11.318	0.000	11.318	-2.179
55.00	-14.451	-20.952	0.000	0.000	0.000	-1.028.740	-13.720	0.000	13.720	-2.404
60.00	-14.165	-19.870	0.000	0.000	0.000	-956.485	-16.356	0.000	16.356	-2.626
65.00	-13.872	-18.806	0.000	0.000	0.000	-885.659	-19.223	0.000	19.223	-2.845
70.00	-13.540	-17.787	0.000	0.000	0.000	-816.298	-22.318	0.000	22.318	-3.061
70.00	-13.563	-17.769	0.000	0.000	0.000	-816.293	-22.318	0.000	22.318	-3.062
73.50	-13.321	-16.799	0.000	0.000	0.000	-768.822	-24.619	0.000	24.619	-3.212
75.00	-13.252	-16.498	0.000	0.000	0.000	-748.846	-25.638	0.000	25.638	-3.276
80.00	-12.944	-15.568	0.000	0.000	0.000	-682.585	-29.184	0.000	29.184	-3.494
85.00	-12.632	-14.655	0.000	0.000	0.000	-617.864	-32.956	0.000	32.956	-3.706
90.00	-12.316	-13.760	0.000	0.000	0.000	-554.706	-36.945	0.000	36.945	-3.910
95.00	-11.998	-12.881	0.000	0.000	0.000	-493.125	-41.142	0.000	41.142	-4.104
100.0	-11.678	-12.020	0.000	0.000	0.000	-433.136	-45.538	0.000	45.538	-4.289
105.0	-11.356	-11.176	0.000	0.000	0.000	-374.748	-50.120	0.000	50.120	-4.462
110.0	-11.021	-10.364	0.000	0.000	0.000	-317.966	-54.875	0.000	54.875	-4.621
110.0	-11.035	-10.349	0.000	0.000	0.000	-317.962	-54.876	0.000	54.876	-4.621
115.0	-10.669	-9.530	0.000	0.000	0.000	-262.793	-59.789	0.000	59.789	-4.764
120.0	-10.297	-8.734	0.000	0.000	0.000	-209.447	-64.850	0.000	64.850	-4.901
121.0	-10.225	-8.575	0.000	0.000	0.000	-199.151	-65.878	0.000	65.878	-4.926
122.0	-9.785	-8.352	0.000	0.000	0.000	-188.926	-66.912	0.000	66.912	-4.951
125.0	-9.625	-8.049	0.000	0.000	0.000	-159.571	-70.109	0.000	70.109	-5.224
130.0	-9.314	-7.608	0.000	0.000	0.000	-111.449	-75.785	0.000	75.785	-5.604
132.0	-5.681	-5.907	0.000	0.000	0.000	-92.821	-78.158	0.000	78.158	-5.735
135.0	-5.500	-5.655	0.000	0.000	0.000	-75.777	-81.811	0.000	81.811	-5.905
140.0	-3.781	-3.373	0.000	0.000	0.000	-48.277	-88.113	0.000	88.113	-6.131
145.0	-3.527	-3.123	0.000	0.000	0.000	-29.373	-94.615	0.000	94.615	-6.295
150.0	-3.159	0.000	0.000	0.000	0.000	-11.740	-101.254	0.000	101.254	-6.395

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: Ice

69.28 mph Wind with Ice

26 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)	Stress Ratio	
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.55	0.80	0.00	0.00	0.00	35.52	36.10	52.0	0.0	0.694
5.00	0.54	0.81	0.00	0.00	0.00	35.01	35.58	52.0	0.0	0.684
10.00	0.52	0.81	0.00	0.00	0.00	34.47	35.02	52.0	0.0	0.674
15.00	0.51	0.82	0.00	0.00	0.00	33.88	34.42	52.0	0.0	0.662
20.00	0.50	0.83	0.00	0.00	0.00	33.26	33.79	52.0	0.0	0.650
25.00	0.48	0.84	0.00	0.00	0.00	32.60	33.11	52.0	0.0	0.637
30.00	0.47	0.84	0.00	0.00	0.00	31.89	32.39	52.0	0.0	0.623
31.50	0.46	0.85	0.00	0.00	0.00	31.67	32.17	52.0	0.0	0.619
35.00	0.45	0.85	0.00	0.00	0.00	30.71	31.19	52.0	0.0	0.600
35.67	0.49	1.00	0.00	0.00	0.00	33.27	33.81	52.0	0.0	0.650
40.00	0.47	0.98	0.00	0.00	0.00	32.46	32.98	52.0	0.0	0.634
45.00	0.46	0.99	0.00	0.00	0.00	31.55	32.05	52.0	0.0	0.616
50.00	0.44	1.00	0.00	0.00	0.00	30.58	31.07	52.0	0.0	0.598
55.00	0.43	1.00	0.00	0.00	0.00	29.55	30.03	52.0	0.0	0.578
60.00	0.41	1.01	0.00	0.00	0.00	28.47	28.94	52.0	0.0	0.557
65.00	0.40	1.02	0.00	0.00	0.00	27.33	27.79	52.0	0.0	0.534
70.00	0.38	1.02	0.00	0.00	0.00	26.13	26.57	52.0	0.0	0.511
70.00	0.38	1.02	0.00	0.00	0.00	26.13	26.57	52.0	0.0	0.511
73.50	0.41	1.26	0.00	0.00	0.00	27.13	27.62	52.0	0.0	0.531
75.00	0.40	1.26	0.00	0.00	0.00	26.70	27.19	52.0	0.0	0.523
80.00	0.39	1.27	0.00	0.00	0.00	25.20	25.68	52.0	0.0	0.494
85.00	0.37	1.28	0.00	0.00	0.00	23.63	24.10	52.0	0.0	0.464
90.00	0.35	1.29	0.00	0.00	0.00	21.99	22.45	52.0	0.0	0.432
95.00	0.33	1.30	0.00	0.00	0.00	20.27	20.72	52.0	0.0	0.399
100.00	0.32	1.31	0.00	0.00	0.00	18.47	18.92	52.0	0.0	0.364
105.00	0.30	1.31	0.00	0.00	0.00	16.58	17.03	52.0	0.0	0.328
110.00	0.28	1.32	0.00	0.00	0.00	14.60	15.06	52.0	0.0	0.290
110.00	0.28	1.33	0.00	0.00	0.00	14.60	15.06	52.0	0.0	0.290
110.00	0.32	1.76	0.00	0.00	0.00	15.88	16.49	52.0	0.0	0.317
115.00	0.30	1.77	0.00	0.00	0.00	13.59	14.22	52.0	0.0	0.273
120.00	0.28	1.78	0.00	0.00	0.00	11.21	11.89	52.0	0.0	0.229
121.00	0.27	1.78	0.00	0.00	0.00	10.73	11.43	52.0	0.0	0.220
121.00	0.73	1.78	0.00	0.00	0.00	43.26	44.10	52.0	0.0	0.848
122.00	0.72	1.72	0.00	0.00	0.00	41.71	42.54	52.0	0.0	0.818
125.00	0.71	1.73	0.00	0.00	0.00	37.03	37.86	52.0	0.0	0.728
130.00	0.70	1.75	0.00	0.00	0.00	28.18	29.04	52.0	0.0	0.559
132.00	0.55	1.08	0.00	0.00	0.00	24.32	24.94	52.0	0.0	0.480
135.00	0.55	1.08	0.00	0.00	0.00	20.96	21.59	52.0	0.0	0.415
140.00	0.34	0.78	0.00	0.00	0.00	14.67	15.07	52.0	0.0	0.290
145.00	0.33	0.76	0.00	0.00	0.00	9.85	10.27	52.0	0.0	0.197
150.00	0.00	0.72	0.00	0.00	0.00	4.37	4.54	52.0	0.0	0.087

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

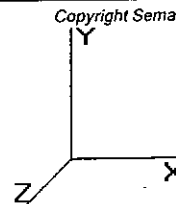
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Shaft Segment Forces

Seg Top Elev (ft)	Description	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		0.00	1.00	6.400	10.81	155.75	1.030	0.00	0.00	0.000	0.00	0.0	0.0
5.00		0.00	1.00	6.400	10.81	152.48	1.030	0.00	5.00	15.412	15.87	171.7	1,086.2
10.00		0.00	1.00	6.400	10.81	149.22	1.030	0.00	5.00	15.085	15.54	168.1	1,070.1
15.00		0.00	1.00	6.400	10.81	145.95	1.030	0.00	5.00	14.759	15.20	164.4	1,054.0
20.00		0.00	1.00	6.400	10.81	142.69	1.030	0.00	5.00	14.432	14.87	160.8	1,037.9
25.00		0.00	1.00	6.400	10.81	139.42	1.030	0.00	5.00	14.106	14.53	157.1	1,021.8
30.00		0.00	1.00	6.400	10.81	136.16	1.030	0.00	5.00	13.779	14.19	153.5	1,005.7
31.50	Bot - Section 2	0.00	1.00	6.400	10.81	135.18	1.030	0.00	1.50	4.071	4.19	45.4	298.6
35.00		0.00	1.01	6.509	10.99	134.02	1.030	0.00	3.50	9.564	9.85	108.4	1,080.2
35.67	Top - Section 1	0.00	1.02	6.544	11.05	133.94	1.030	0.00	0.67	1.805	1.86	20.6	204.2
40.00	Appertunance(s)	0.00	1.05	6.762	11.42	135.92	1.030	0.00	4.33	11.582	11.93	136.3	760.7
45.00		0.00	1.09	6.993	11.81	134.81	1.030	0.00	5.00	13.061	13.45	159.0	865.3
50.00		0.00	1.12	7.207	12.17	133.39	1.030	0.00	5.00	12.734	13.12	159.7	851.9
55.00		0.00	1.15	7.406	12.51	131.71	1.030	0.00	5.00	12.408	12.78	159.9	838.5
60.00		0.00	1.18	7.592	12.83	129.80	1.030	0.00	5.00	12.081	12.44	159.7	825.0
65.00		0.00	1.21	7.768	13.12	127.70	1.030	0.00	5.00	11.755	12.11	158.9	811.6
70.00		0.00	1.24	7.934	13.40	125.42	1.030	0.00	5.00	11.428	11.77	157.8	798.2
70.00	Bot - Section 3	0.00	1.24	7.934	13.40	125.42	1.030	0.00	0.00	0.001	0.00	0.0	0.1
73.50	Top - Section 2	0.00	1.25	8.045	13.59	123.74	1.030	0.00	3.50	7.951	8.19	111.4	809.7
75.00		0.00	1.26	8.092	13.67	125.34	1.030	0.00	1.50	3.358	3.46	47.3	209.5
80.00		0.00	1.28	8.242	13.93	122.79	1.030	0.00	5.00	10.984	11.31	157.6	691.6
85.00		0.00	1.31	8.387	14.17	120.12	1.030	0.00	5.00	10.657	10.98	155.6	680.9
90.00		0.00	1.33	8.525	14.40	117.34	1.030	0.00	5.00	10.331	10.64	153.3	670.2
95.00		0.00	1.35	8.657	14.63	114.45	1.030	0.00	5.00	10.004	10.30	150.8	659.4
100.0		0.00	1.37	8.785	14.84	111.47	1.030	0.00	5.00	9.678	9.97	148.0	648.7
105.0		0.00	1.39	8.908	15.05	108.40	1.030	0.00	5.00	9.351	9.63	145.0	638.0
110.0		0.00	1.41	9.028	15.25	105.24	1.030	0.00	5.00	9.025	9.30	141.8	627.2
110.0	Top - Section 3	0.00	1.41	9.028	15.25	105.24	1.030	0.00	0.00	0.001	0.00	0.0	0.0
115.0		0.00	1.42	9.143	15.45	102.01	1.030	0.00	5.00	8.698	8.96	138.4	546.5
120.0		0.00	1.44	9.255	15.64	98.713	1.030	0.00	5.00	8.372	8.62	134.9	538.5
121.0	Reinf. Top	0.00	1.45	9.277	15.67	98.044	1.030	0.00	1.00	1.635	1.68	26.4	106.7
122.0	Appertunance(s)	0.00	1.45	9.299	15.71	97.372	1.030	0.00	1.00	1.622	1.67	26.3	39.6
125.0		0.00	1.46	9.363	15.82	95.341	1.030	0.00	3.00	4.788	4.93	78.0	116.9
130.0		0.00	1.48	9.469	16.00	91.906	1.030	0.00	5.00	7.719	7.95	127.2	188.4
132.0	Appertunance(s)	0.00	1.48	9.510	16.07	90.515	1.030	0.00	2.00	2.996	3.09	49.6	73.1
135.0		0.00	1.49	9.572	16.17	88.410	1.030	0.00	3.00	4.396	4.53	73.2	107.2
140.0	Appertunance(s)	0.00	1.51	9.672	16.34	84.858	1.030	0.00	5.00	7.066	7.28	119.0	172.3
145.0		0.00	1.52	9.769	16.51	81.251	1.030	0.00	5.00	6.740	6.94	114.6	164.2
150.0	Appertunance(s)	0.00	1.54	9.864	16.67	77.592	1.030	0.00	5.00	6.413	6.61	110.1	156.2
Totals:								150.00			4,449.8	0.0	21,454.9

Pole : 302489
 Location : Enfd - Enfield, CT
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 Shape : 12 Sides
 Base Dia : 37.38 (in)
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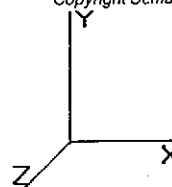
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Discrete Appurtenance Segment Forces

Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa Factor	Total CaAa (sf)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)	Dead Load (lb)
40.00	Channel Master 1.2 M	1	6.762	11.427	1.00	20.91	0.000	0.000	238.94	0.00	0.00	188.00
122.0	Kathrein 742 213	3	9.299	15.715	0.72	11.10	0.000	0.000	174.47	0.00	0.00	66.00
132.0	Round T-Arm	3	9.510	16.073	0.75	21.82	0.000	0.000	350.78	0.00	0.00	750.00
132.0	Antel LPA-185080/12C	6	9.510	16.073	1.00	25.80	0.000	0.000	414.67	0.00	0.00	243.00
132.0	Antel LPA-80080/6CF	6	9.510	16.073	1.00	44.04	0.000	0.000	707.83	0.00	0.00	144.00
140.0	EMS RR90-17-02D	6	9.672	16.345	0.67	17.51	0.000	0.000	286.22	0.00	0.00	93.00
140.0	Low Profile Platform	1	9.672	16.345	1.00	16.00	0.000	0.000	261.52	0.00	0.00	1,200.00
150.0	TTA	6	9.939	16.796	0.75	6.97	0.000	4.000	117.15	0.00	468.61	108.00
150.0	Powerwave LGP	6	9.939	16.796	0.81	1.65	0.000	4.000	27.75	0.00	111.02	30.00
150.0	Powerwave 7770-2	6	9.939	16.796	0.72	25.67	0.000	4.000	431.08	0.00	1,724.31	210.00
150.0	Decibel DB809-Y	1	10.043	16.972	1.00	5.83	0.000	9.710	98.95	0.00	960.76	24.00
150.0	Platform w/ Handrail	1	9.920	16.765	1.00	35.00	0.000	3.000	586.77	0.00	1,760.32	1,800.00
									3,696.14			4,856.00

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

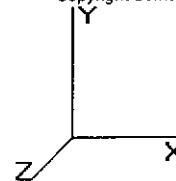
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

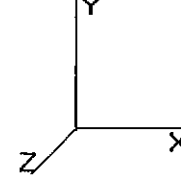
Linear Appurtenance Segment Forces

Seg Top Elev (ft)	Description	Exposed To Wind	Length (ft)	Weight (lb/ft)	CaAa (sf/ft)	qz (psf)	FX (lb)	Dead Load (lb)
5.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	6.400	10.82	49.20
5.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	6.400	61.11	0.00
5.00	(1) RG6	Yes	5.00	0.03	0.03	6.400	1.62	0.14
10.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	6.400	10.82	49.20
10.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	6.400	61.11	0.00
10.00	(1) RG6	Yes	5.00	0.03	0.03	6.400	1.62	0.14
15.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	6.400	10.82	49.20
15.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	6.400	61.11	0.00
15.00	(1) RG6	Yes	5.00	0.03	0.03	6.400	1.62	0.14
20.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	6.400	10.82	49.20
20.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	6.400	61.11	0.00
20.00	(1) RG6	Yes	5.00	0.03	0.03	6.400	1.62	0.14
25.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	6.400	10.82	49.20
25.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	6.400	61.11	0.00
25.00	(1) RG6	Yes	5.00	0.03	0.03	6.400	1.62	0.14
30.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	6.400	10.82	49.20
30.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	6.400	61.11	0.00
30.00	(1) RG6	Yes	5.00	0.03	0.03	6.400	1.62	0.14
31.50	(12) 1 5/8" Coax	Yes	1.50	9.84	0.20	6.400	3.25	14.76
31.50	(4) #20 Dywidag bars	Yes	1.50	0.00	1.13	6.400	18.34	0.00
31.50	(1) RG6	Yes	1.50	0.03	0.03	6.400	0.49	0.04
35.00	(12) 1 5/8" Coax	Yes	3.50	9.84	0.20	6.509	7.70	34.44
35.00	(4) #20 Dywidag bars	Yes	3.50	0.00	1.13	6.509	43.50	0.00
35.00	(1) RG6	Yes	3.50	0.03	0.03	6.509	1.15	0.10
35.67	(12) 1 5/8" Coax	Yes	0.67	9.84	0.20	6.544	1.48	6.56
35.67	(4) #20 Dywidag bars	Yes	0.67	0.00	1.13	6.544	8.34	0.00
35.67	(1) RG6	Yes	0.67	0.03	0.03	6.544	0.22	0.02
40.00	(12) 1 5/8" Coax	Yes	4.33	9.84	0.20	6.762	9.90	42.64
40.00	(4) #20 Dywidag bars	Yes	4.33	0.00	1.13	6.762	55.95	0.00
40.00	(1) RG6	Yes	4.33	0.03	0.03	6.762	1.49	0.13
45.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	6.993	11.82	49.20
45.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	6.993	66.77	0.00
50.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	7.207	12.18	49.20
50.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	7.207	68.81	0.00
55.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	7.406	12.52	49.20
55.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	7.406	70.71	0.00
60.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	7.592	12.83	49.20
60.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	7.592	72.49	0.00
65.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	7.768	13.13	49.20
65.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	7.768	74.17	0.00
70.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	7.934	13.41	49.20
70.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	7.934	75.76	0.00
70.00	(12) 1 5/8" Coax	Yes	0.00	9.84	0.20	7.934	0.00	0.00
70.00	(4) #20 Dywidag bars	Yes	0.00	0.00	1.13	7.934	0.01	0.00
73.50	(12) 1 5/8" Coax	Yes	3.50	9.84	0.20	8.045	9.52	34.44
73.50	(4) #20 Dywidag bars	Yes	3.50	0.00	1.13	8.045	53.77	0.00
75.00	(12) 1 5/8" Coax	Yes	1.50	9.84	0.20	8.092	4.10	14.76
75.00	(4) #20 Dywidag bars	Yes	1.50	0.00	1.13	8.092	23.17	0.00
80.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	8.242	13.93	49.20
80.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	8.242	78.70	0.00
85.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	8.387	14.17	49.20

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: Twist/Sway

50.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

85.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	8.387	80.08	0.00
90.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	8.525	14.41	49.20
90.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	8.525	81.40	0.00
95.00	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	8.657	14.63	49.20
95.00	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	8.657	82.66	0.00
100.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	8.785	14.85	49.20
100.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	8.785	83.88	0.00
105.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	8.908	15.06	49.20
105.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	8.908	85.06	0.00
110.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	9.028	15.26	49.20
110.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	9.028	86.20	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	9.84	0.20	9.028	0.00	0.00
110.0	(12) 1 5/8" Coax	Yes	0.00	9.84	0.20	9.028	0.00	0.00
110.0	(4) #20 Dywidag bars	Yes	0.00	0.00	1.13	9.028	0.01	0.00
115.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	9.143	15.45	49.20
115.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	9.143	15.45	49.20
115.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	9.143	87.30	0.00
120.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	9.255	15.64	49.20
120.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	9.255	15.64	49.20
120.0	(4) #20 Dywidag bars	Yes	5.00	0.00	1.13	9.255	88.37	0.00
121.0	(12) 1 5/8" Coax	Yes	1.00	9.84	0.20	9.277	3.14	9.84
121.0	(12) 1 5/8" Coax	Yes	1.00	9.84	0.20	9.277	3.14	9.84
121.0	(4) #20 Dywidag bars	Yes	1.00	0.00	1.13	9.277	17.72	0.00
122.0	(12) 1 5/8" Coax	Yes	1.00	9.84	0.20	9.299	3.14	9.84
122.0	(12) 1 5/8" Coax	Yes	1.00	9.84	0.20	9.299	3.14	9.84
122.0	(4) #20 Dywidag bars	Yes	1.00	0.00	1.13	9.299	17.76	0.00
125.0	(12) 1 5/8" Coax	Yes	3.00	9.84	0.20	9.363	9.49	29.52
125.0	(12) 1 5/8" Coax	Yes	3.00	9.84	0.20	9.363	9.49	29.52
125.0	(4) #20 Dywidag bars	Yes	3.00	0.00	1.13	9.363	53.64	0.00
130.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	9.469	16.00	49.20
130.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	9.469	16.00	49.20
132.0	(12) 1 5/8" Coax	Yes	2.00	9.84	0.20	9.510	6.43	19.68
135.0	(12) 1 5/8" Coax	Yes	3.00	9.84	0.20	9.572	9.71	29.52
140.0	(12) 1 5/8" Coax	Yes	5.00	9.84	0.20	9.672	16.35	49.20

Totals: 2,291.56 1,575.56

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

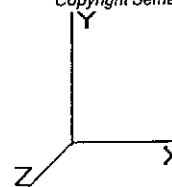
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

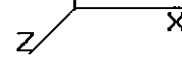
Applied Segment Forces Summary

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	245.24	1,262.63	0.00	0.00
10.00	241.61	1,246.54	0.00	0.00
15.00	237.97	1,230.44	0.00	0.00
20.00	234.33	1,214.34	0.00	0.00
25.00	230.70	1,198.25	0.00	0.00
30.00	227.06	1,182.15	0.00	0.00
31.50	67.42	351.59	0.00	0.00
35.00	160.71	1,203.70	0.00	0.00
35.67	30.59	227.77	0.00	0.00
40.00	442.60	1,101.61	0.00	0.00
45.00	237.57	1,041.59	0.00	0.00
50.00	240.74	1,028.17	0.00	0.00
55.00	243.18	1,014.76	0.00	0.00
60.00	244.98	1,001.34	0.00	0.00
65.00	246.24	987.93	0.00	0.00
70.00	247.00	974.52	0.00	0.00
70.00	0.02	0.06	0.00	0.00
73.50	174.65	933.15	0.00	0.00
75.00	74.58	262.41	0.00	0.00
80.00	250.22	867.91	0.00	0.00
85.00	249.83	857.18	0.00	0.00
90.00	249.10	846.45	0.00	0.00
95.00	248.06	835.72	0.00	0.00
100.0	246.73	824.99	0.00	0.00
105.0	245.13	814.26	0.00	0.00
110.0	243.28	803.53	0.00	0.00
110.0	0.02	0.05	0.00	0.00
115.0	256.63	722.77	0.00	0.00
120.0	254.52	714.77	0.00	0.00
121.0	50.39	141.99	0.00	0.00
122.0	224.77	140.87	0.00	0.00
125.0	150.67	207.91	0.00	0.00
130.0	159.24	340.07	0.00	0.00
132.0	1,529.31	1,251.10	0.00	0.00
135.0	82.96	168.73	0.00	0.00
140.0	683.05	1,567.78	0.00	0.00
145.0	114.61	217.53	0.00	0.00
150.0	1,371.82	2,381.48	0.00	5,025.03
Totals:	10,437.50	31,168.05	0.00	5,025.03

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
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Base Elev : 0.000 (ft)

Load Case: Twist/Sway

50.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

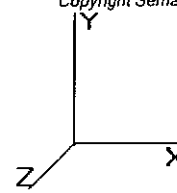
Seg Elev (ft)	Lateral FX (-) (kips)	Axial FY (-) (kips)	Lateral FZ (kips)	Moment MX (ft-kips)	Torsion MY (ft-kips)	Moment MZ (ft-kips)	X Deflect (in)	Z Deflect (in)	Total Deflect (in)	Rotation (deg)
0.00	-10.469	-31.157	0.000	0.000	0.000	-1,031.491	0.000	0.000	0.000	0.000
5.00	-10.282	-29.875	0.000	0.000	0.000	-979.148	-0.061	0.000	0.061	-0.114
10.00	-10.093	-28.609	0.000	0.000	0.000	-927.741	-0.241	0.000	0.241	-0.227
15.00	-9.903	-27.360	0.000	0.000	0.000	-877.277	-0.540	0.000	0.540	-0.341
20.00	-9.712	-26.128	0.000	0.000	0.000	-827.762	-0.958	0.000	0.958	-0.455
25.00	-9.520	-24.913	0.000	0.000	0.000	-779.203	-1.495	0.000	1.495	-0.568
30.00	-9.310	-23.722	0.000	0.000	0.000	-731.605	-2.150	0.000	2.150	-0.680
31.50	-9.262	-23.362	0.000	0.000	0.000	-717.637	-2.370	0.000	2.370	-0.715
35.00	-9.103	-22.153	0.000	0.000	0.000	-685.225	-2.923	0.000	2.923	-0.794
35.67	-9.091	-21.917	0.000	0.000	0.000	-679.153	-3.035	0.000	3.035	-0.809
40.00	-8.670	-20.806	0.000	0.000	0.000	-639.765	-3.814	0.000	3.814	-0.904
45.00	-8.454	-19.752	0.000	0.000	0.000	-596.416	-4.822	0.000	4.822	-1.019
50.00	-8.231	-18.712	0.000	0.000	0.000	-554.144	-5.951	0.000	5.951	-1.133
55.00	-8.002	-17.687	0.000	0.000	0.000	-512.988	-7.199	0.000	7.199	-1.246
60.00	-7.766	-16.677	0.000	0.000	0.000	-472.981	-8.563	0.000	8.563	-1.356
65.00	-7.524	-15.681	0.000	0.000	0.000	-434.153	-10.041	0.000	10.041	-1.464
70.00	-7.265	-14.707	0.000	0.000	0.000	-396.531	-11.632	0.000	11.632	-1.570
70.00	-7.274	-14.702	0.000	0.000	0.000	-396.529	-11.632	0.000	11.632	-1.570
73.50	-7.086	-13.768	0.000	0.000	0.000	-371.068	-12.810	0.000	12.810	-1.643
75.00	-7.020	-13.500	0.000	0.000	0.000	-360.442	-13.331	0.000	13.331	-1.673
80.00	-6.766	-12.628	0.000	0.000	0.000	-325.341	-15.140	0.000	15.140	-1.778
85.00	-6.510	-11.768	0.000	0.000	0.000	-291.509	-17.056	0.000	17.056	-1.878
90.00	-6.250	-10.920	0.000	0.000	0.000	-258.962	-19.075	0.000	19.075	-1.974
95.00	-5.988	-10.084	0.000	0.000	0.000	-227.713	-21.192	0.000	21.192	-2.065
100.0	-5.724	-9.261	0.000	0.000	0.000	-197.773	-23.400	0.000	23.400	-2.149
105.0	-5.459	-8.449	0.000	0.000	0.000	-169.152	-25.694	0.000	25.694	-2.228
110.0	-5.189	-7.653	0.000	0.000	0.000	-141.856	-28.066	0.000	28.066	-2.299
110.0	-5.193	-7.650	0.000	0.000	0.000	-141.854	-28.066	0.000	28.066	-2.299
115.0	-4.915	-6.933	0.000	0.000	0.000	-115.889	-30.509	0.000	30.509	-2.363
120.0	-4.635	-6.227	0.000	0.000	0.000	-91.313	-33.016	0.000	33.016	-2.423
121.0	-4.580	-6.086	0.000	0.000	0.000	-86.679	-33.525	0.000	33.525	-2.434
122.0	-4.356	-5.950	0.000	0.000	0.000	-82.099	-34.036	0.000	34.036	-2.445
125.0	-4.211	-5.738	0.000	0.000	0.000	-69.032	-35.611	0.000	35.611	-2.563
130.0	-4.046	-5.398	0.000	0.000	0.000	-47.978	-38.386	0.000	38.386	-2.727
132.0	-2.463	-4.219	0.000	0.000	0.000	-39.886	-39.541	0.000	39.541	-2.783
135.0	-2.378	-4.051	0.000	0.000	0.000	-32.497	-41.313	0.000	41.313	-2.856
140.0	-1.620	-2.518	0.000	0.000	0.000	-20.607	-44.359	0.000	44.359	-2.953
145.0	-1.496	-2.305	0.000	0.000	0.000	-12.507	-47.490	0.000	47.490	-3.023
150.0	-1.372	0.000	0.000	0.000	0.000	-5.025	-50.680	0.000	50.680	-3.066

Pole : 302489
 Location : Enfd - Enfield, CT
 Height : 150.0 (ft)
 Shape : 12 Sides
 Base Dia : 37.38 (in)
 Top Dia : 15.00 (in)
 Taper : 0.156700 (in/ft)

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

26 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

Seg Elev (ft)	Applied Stresses							Allowable Stress (Fb) (ksi)	Stress Ratio	
	Axial (Y) (ksi)	Shear (X) (ksi)	Shear (Z) (ksi)	Torsion (ksi)	Bending (X) (ksi)	Bending (Z) (ksi)	Combined (ksi)			
0.00	0.48	0.48	0.00	0.00	0.00	19.04	19.54	52.0	0.0	0.376
5.00	0.47	0.48	0.00	0.00	0.00	18.66	19.15	52.0	0.0	0.368
10.00	0.46	0.48	0.00	0.00	0.00	18.27	18.75	52.0	0.0	0.361
15.00	0.44	0.48	0.00	0.00	0.00	17.86	18.32	52.0	0.0	0.352
20.00	0.43	0.48	0.00	0.00	0.00	17.43	17.88	52.0	0.0	0.344
25.00	0.42	0.48	0.00	0.00	0.00	16.97	17.41	52.0	0.0	0.335
30.00	0.40	0.48	0.00	0.00	0.00	16.50	16.92	52.0	0.0	0.325
31.50	0.40	0.49	0.00	0.00	0.00	16.35	16.77	52.0	0.0	0.323
35.00	0.38	0.49	0.00	0.00	0.00	15.78	16.19	52.0	0.0	0.311
35.67	0.42	0.57	0.00	0.00	0.00	17.08	17.53	52.0	0.0	0.337
40.00	0.41	0.56	0.00	0.00	0.00	16.57	17.00	52.0	0.0	0.327
45.00	0.39	0.56	0.00	0.00	0.00	15.98	16.40	52.0	0.0	0.315
50.00	0.38	0.56	0.00	0.00	0.00	15.37	15.78	52.0	0.0	0.303
55.00	0.36	0.56	0.00	0.00	0.00	14.74	15.13	52.0	0.0	0.291
60.00	0.35	0.55	0.00	0.00	0.00	14.08	14.46	52.0	0.0	0.278
65.00	0.33	0.55	0.00	0.00	0.00	13.40	13.76	52.0	0.0	0.265
70.00	0.32	0.55	0.00	0.00	0.00	12.69	13.04	52.0	0.0	0.251
70.00	0.32	0.55	0.00	0.00	0.00	12.69	13.04	52.0	0.0	0.251
73.50	0.33	0.67	0.00	0.00	0.00	13.09	13.48	52.0	0.0	0.259
75.00	0.33	0.67	0.00	0.00	0.00	12.85	13.23	52.0	0.0	0.254
80.00	0.31	0.66	0.00	0.00	0.00	12.01	12.38	52.0	0.0	0.238
85.00	0.30	0.66	0.00	0.00	0.00	11.15	11.50	52.0	0.0	0.221
90.00	0.28	0.65	0.00	0.00	0.00	10.26	10.60	52.0	0.0	0.204
95.00	0.26	0.65	0.00	0.00	0.00	9.36	9.69	52.0	0.0	0.186
100.00	0.24	0.64	0.00	0.00	0.00	8.43	8.75	52.0	0.0	0.168
105.00	0.23	0.63	0.00	0.00	0.00	7.48	7.79	52.0	0.0	0.150
110.00	0.21	0.62	0.00	0.00	0.00	6.51	6.81	52.0	0.0	0.131
110.00	0.21	0.62	0.00	0.00	0.00	6.51	6.81	52.0	0.0	0.131
110.00	0.24	0.83	0.00	0.00	0.00	7.09	7.46	52.0	0.0	0.144
115.00	0.22	0.81	0.00	0.00	0.00	5.99	6.37	52.0	0.0	0.122
120.00	0.20	0.80	0.00	0.00	0.00	4.89	5.27	52.0	0.0	0.101
121.00	0.19	0.80	0.00	0.00	0.00	4.67	5.06	52.0	0.0	0.097
121.00	0.52	0.80	0.00	0.00	0.00	18.83	19.40	52.0	0.0	0.373
122.00	0.51	0.76	0.00	0.00	0.00	18.13	18.69	52.0	0.0	0.359
125.00	0.51	0.76	0.00	0.00	0.00	16.02	16.58	52.0	0.0	0.319
130.00	0.50	0.76	0.00	0.00	0.00	12.13	12.70	52.0	0.0	0.244
132.00	0.40	0.47	0.00	0.00	0.00	10.45	10.88	52.0	0.0	0.209
135.00	0.39	0.47	0.00	0.00	0.00	8.99	9.42	52.0	0.0	0.181
140.00	0.25	0.33	0.00	0.00	0.00	6.26	6.54	52.0	0.0	0.126
145.00	0.24	0.32	0.00	0.00	0.00	4.19	4.47	52.0	0.0	0.086
150.00	0.00	0.31	0.00	0.00	0.00	1.87	1.95	52.0	0.0	0.037

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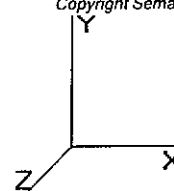
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Base Elev : 0.000 (ft)



Analysis Summary

Load Case	Reactions						Max Stresses			
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Combined Stress (ksi)	Allowable Stress (ksi)	Elev (ft)	Stress Ratio
No Ice	26.8	0.00	31.10	0.00	0.00	2635.33	49.17	52.0	0.00	0.946
Ice	17.6	0.00	35.54	0.00	0.00	1924.54	44.10	52.0	121.00	0.848
Twist/Sway	10.5	0.00	31.16	0.00	0.00	1031.49	19.54	52.0	0.00	0.376

Additional Steel Summary

Elev From (ft)		Elev To (ft)	Member	Intermediate Connectors			Upper Termination Connectors				Lower Termination Connectors				Max Member		
				VQ/I (lb/in)	Shear Applied (kips)	Shear Allow (kips)	MQ/I (kips)	Allow (kips)	Num Req'd	Num Actual	MQ/I (kips)	Allow (kips)	Num Req'd	Num Actual	fb (ksi)	Fb (ksi)	Ratio
0.00	121.0	121.0	(4) SOL-#20 All Thre	339.1	10.2	12.9	75.6	8.1	10	0	0.0	8.1	0	0	59.0	57.8	102.0