

January 4, 2017

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

Re: **Notice of Exempt Modification – Facility Modification
398 Pomfret Street, Pomfret, Connecticut**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains twelve (12) antennas at the 157-foot level on the existing 168-foot tower at 398 Pomfret Street in Pomfret, Connecticut (the “Property”). The tower is owned by SBA Communications Corporation (“SBA”). The Council approved Cellco’s use of this tower in 2000. Cellco now intends to modify its facility by replacing three (3) of its antennas with three (3) model QUAD656C0000x, 700 MHz antennas, at the same level on the tower. Cellco also intends to replace three (3) remote radio heads (“RRHs”) with three (3) newer model RRHs. Included in Attachment 1 are specifications for Cellco’s replacement antennas and RRHs.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Craig Baldwin, First Selectman of the Town of Pomfret. A copy of this letter is also being sent to Pomfret School, Inc., the owner of the Property and SBA, the tower owner.

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

1. The proposed modifications will not result in an increase in the height of the existing structure. Cellco’s new antennas and RRHs will be installed on its existing platform at a height of 157 feet on the 168-foot tower.

15712363-v1

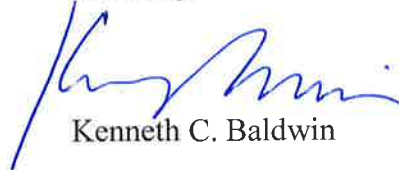
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2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels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

A copy of the Town Assessor's Parcel Map and property owner information is included in Attachment 4.

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

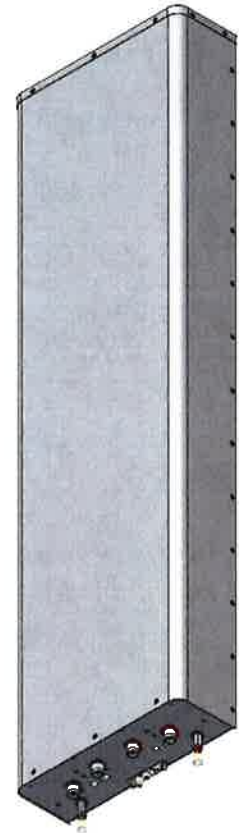
Craig Baldwin, First Selectman
Pomfret School, Inc.
SBA
Tim Parks

ATTACHMENT 1

QUAD656C0000x

Twin Band | Quad Port | Panel Antenna | (2x) X-Pol | 65° / 65° | 15.0 / 15.0 dBi | Variable Tilt

- Twin band, quad-port panel antenna with variable electrical tilt
- 4x4 MIMO
- Patented internal RET actuator adds no additional length to the antenna





Ordering Options		Model Number	
When ordering, replace "x" in the model number with one of the options listed below.			
Manual Electrical Tilt		QUAD656C0000M	
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDCU RET Actuator		QUAD656C0000G	
Remote Electrical Tilt AISG v2.0 / 3GPP with an MDDU RET Actuator		QUAD656C0000L	
Mounting bracket kits and other accessories are ordered separately.			
Electrical Characteristics		(2x) 696-900 MHz	
Frequency Bands		696-806 MHz	806-900 MHz
Polarization		(2x) ±45° (Quad-Pol)	
Horizontal Beamwidth		67°	66°
Vertical Beamwidth		13.6°	12.4°
Gain		14.5 dBi	15.0 dBi
Electrical Downtilt		0-12°	
Impedance		50Ω	
VSWR		≤ 1.5:1	
Upper Sidelobe Suppression		18 dB	18 dB
Front-to-Back Ratio		> 25 dB	> 25 dB
Inband Isolation		25 dB	
Isolation Between Bands		28 dB	
IM3 (2x20W carrier)		< -153 dBc	
Input Power		(4x) 500 W	
Total Number of Connectors		Antennas has 4 connectors located at the bottom	
Connectors Per Band	696-900 MHz	(2x) 7/16-DIN Female	
	696-900 MHz	(2x) 7/16-DIN Female	
Diplexed		No	
Lightning Protection		Direct Ground	
Operating Temperature		-40° to +60° C (-40° to +140° F)	
Mechanical Characteristics			
Dimensions (Length x Width x Depth)		1889 x 520 x 182 mm	74.4 x 20.5 x 7.2 in
Depth with Z-Brackets		227 mm	8.9 in
Weight without Mounting Brackets: MET		24.5 kg	54.0 lbs
Weight without Mounting Brackets: RET		24.8 kg	54.7 lbs
Survival Wind Speed		> 241 km/hr	> 150 mph
Wind Area	Front	0.98 m ²	10.6 ft ²
	Side	0.34 m ²	3.7 ft ²
Wind Loads (160 km/hr or 100 mph)	Front	1200 N	270 lbf
	Side	415 N	93 lbf

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

QUAD656C0000x

Twin Band | Quad Port | Panel Antenna | (2x) X-Pol | 65° / 65° | 15.0 / 15.0 dBi | Variable Tilt

Electrical Downtilt Control				
Electrical downtilt for each band can be controlled separately. Tilt indicator(s) are covered by removable transparent cap(s).				
Manual Electrical Tilt (MET) Control	A colored knob at the end of the tilt indicator allows change of the tilt without need of a tool. The knob color is identical to the corresponding connector ring color. To access the knob, remove the cap by turning it counter-clockwise. It is re-installed by opposite rotation. Do not remove the transparent cap(s) from the antenna.			
Remote Electrical Tilt (RET) Control	The remote control of the electrical tilt is managed by either a Multi-Device Control Unit (MDCU) or a Multi-Device Dual Unit (MDDU) inserted in the bottom of the antenna. A single actuator individually controls the tilt of each band (no need for daisy chain cables between the bands). This module does not add any additional length to the antenna. For RET control, the transparent caps must be in place and locked. The tilt angle indicators always remain visible and the antenna still has manual tilt control (manual override).			
RET Actuator	Select one of the following RET actuators when ordering this antenna.			
	Multi-Device Control Unit (MDCU)	The MDCU is an electronic module that allows the remote control of the electrical downtilt (RET) in Amphenol antennas with factory embedded motors. The MDCU is factory installed. Refer to ordering options.		
	Multi-Device Dual Unit (MDDU)	The MDDU allows two separate RET Controllers to independently drive the RETs in Amphenol antennas with factory installed motors (for antenna sharing). The MDDU is factory installed. Refer to ordering options.		
Important Installation Instructions		In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.		
		Do not install the antenna with the connectors facing upward.		
Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
All mounting bracket kits are ordered separately unless otherwise indicated. Select from the options listed below.				
3-Point Mounting and Downtilt Bracket Kit	36210008		40-115 mm 1.6-4.5 in	6.9 kg 15.2 lbs
Configuration Options				
This antenna model cannot be used with Amphenol's UNICELL 3-sector antenna enclosures.				

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QUAD656C0000x

Twin Band | Quad Port | Panel Antenna | (2x) X-Pol | 65° / 65° | 15.0 / 15.0 dBi | Variable Tilt

Bottom View of Antenna



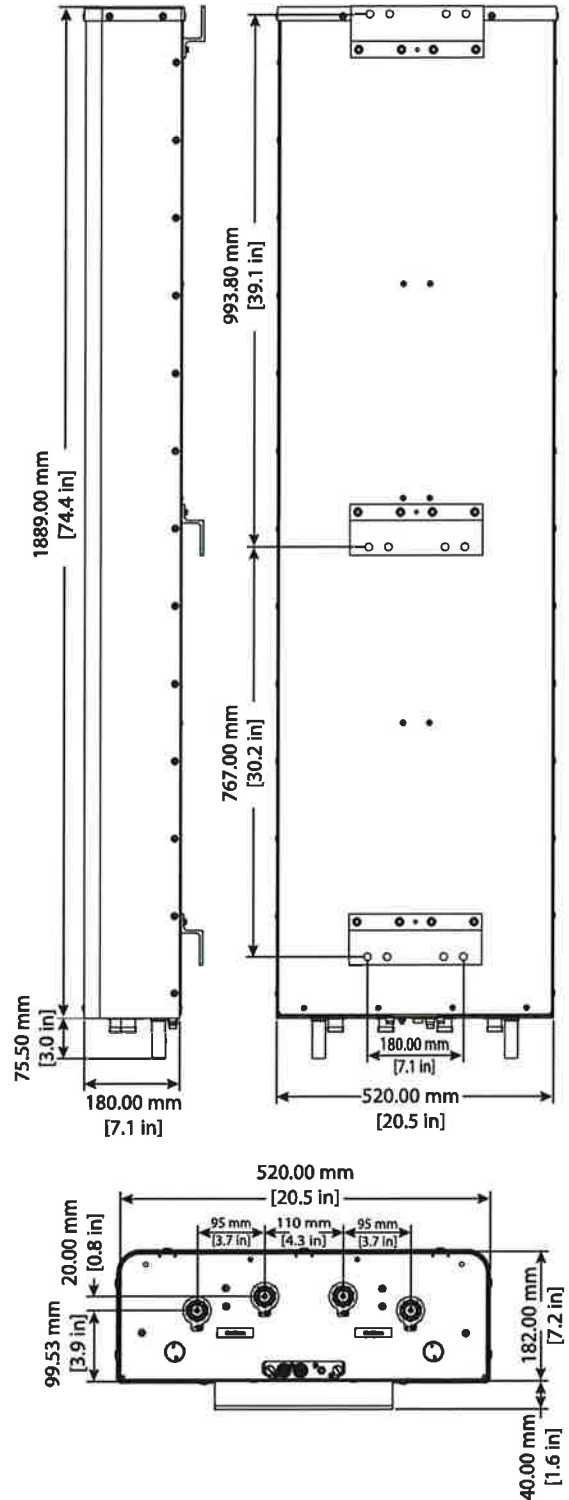
Location of the MDCU or MDDU for RET Control (MDCU shown)

Tilt indicators covered by transparent caps. Manual adjustment is accessed by removing the caps. Knob colors are the same as the connectors.



In order to operate RET control, the transparent caps covering the tilt adjustment indicators must be engaged and locked. Do not cut them from the antenna.

Dimensions

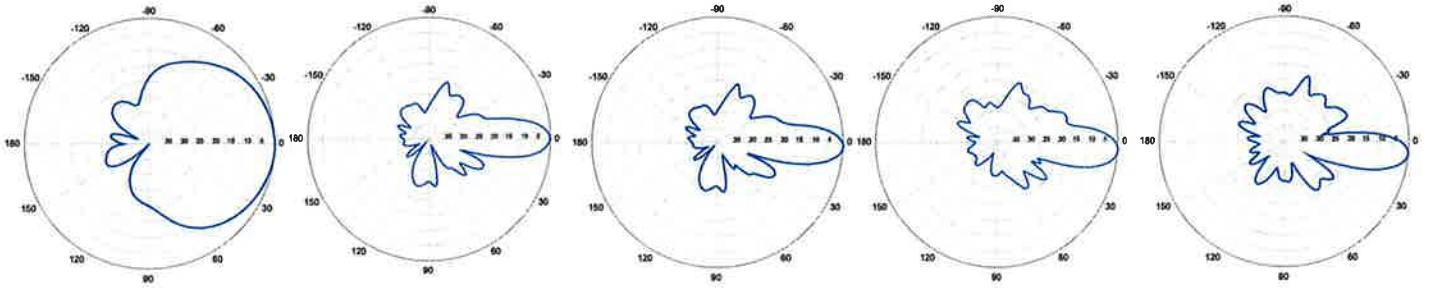


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QUAD656C0000x

Twin Band | Quad Port | Panel Antenna | (2x) X-Pol | 65° / 65° | 15.0 / 15.0 dBi | Variable Tilt

696-900 MHz



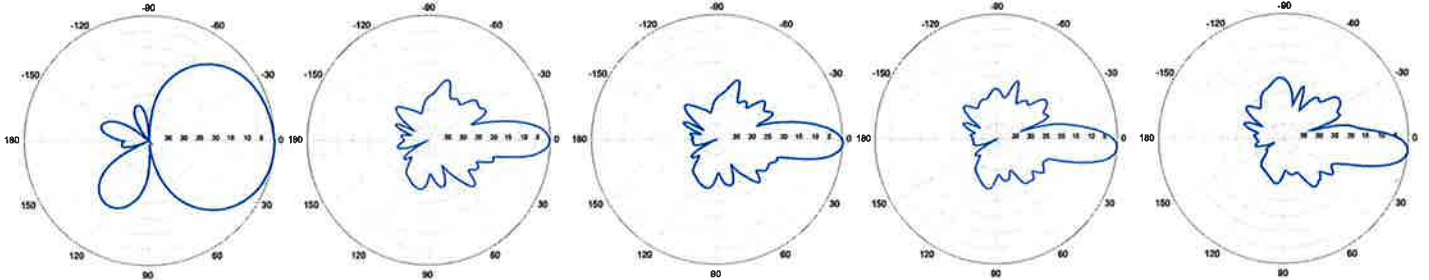
Horizontal | 750 MHz

0° | Vertical | 750 MHz

2° | Vertical | 750 MHz

4° | Vertical | 750 MHz

6° | Vertical | 750 MHz



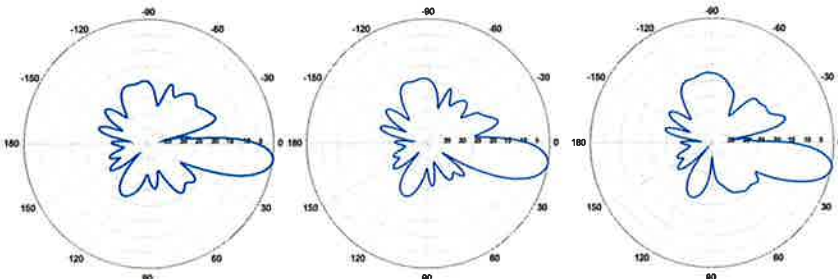
Horizontal | 850 MHz

0° | Vertical | 850 MHz

2° | Vertical | 850 MHz

4° | Vertical | 850 MHz

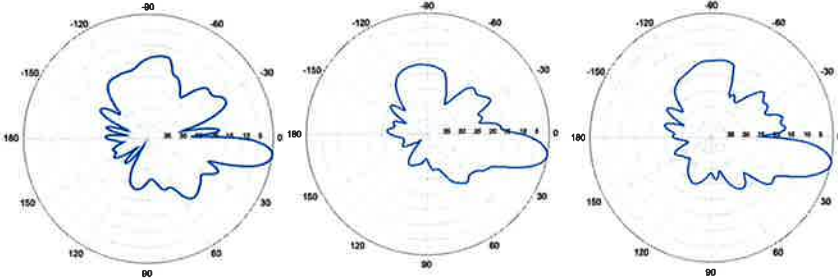
6° | Vertical | 850 MHz



8° | Vertical | 750 MHz

10° | Vertical | 750 MHz

12° | Vertical | 750 MHz



8° | Vertical | 850 MHz

10° | Vertical | 850 MHz

12° | Vertical | 850 MHz

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ALCATEL-LUCENT B13 RRH4X30-4R

Alcatel-Lucent B13 Remote Radio Head 4x30-4R is the newest addition of Remote Radio Head to the extended product line of Alcatel-Lucent's distributed Base Station solutions, aimed at facilitating smooth RF site acquisition and related civil engineering.

Supporting 2Tx/4Tx MIMO and 4-way Rx diversity, Alcatel-Lucent B13 RRH4x30-4R allows operators to have a compact radio solution to deploy LTE in the 700U band (700 MHz, 3GPP band 13), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.

The Alcatel-Lucent B13 RRH4x30-4R product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x60 W or 4x30 W RF output power. It supports also 4-way Rx diversity and up to 10MHz instantaneous bandwidth.

The Alcatel-Lucent B13 RRH4x30-4R is a near zero-footprint solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

Its compactness and slim design makes the Alcatel-Lucent B13 RRH4x30-4R easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

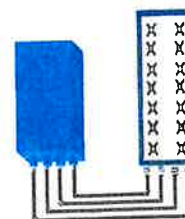


FEATURES

- Supporting LTE in 700 MHz band (700U, 3GPP band 13)
- LTE 2Tx or 4Tx MIMO (SW switchable)
- Output power: Up to 2x60W or 4x30W
- 10MHz LTE carrier with 4Rx Diversity
- Convection-cooled (fan-less)
- Supports AISG 2.0 ALD devices (RET, TMA) through RS485 or RF ports

BENEFITS

- Compact to reduce additional footprint when adding LTE in 700U band
- MIMO scheme operation selection (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through MIMO4
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



4x30W with 4T4R
or
2x60W with 2T4R

Can be switched between modes via SW w/o site visit

TECHNICAL SPECIFICATIONS

Features & performance	
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R by SW)
Frequency band	U700 (C) (3GPP bands 13): DL: 746 - 756 MHz / UL: 777 - 787 MHz
Instantaneous bandwidth - #carriers	10MHz – 1 LTE carrier (In 10MHz occupied bandwidth)
LTE carrier bandwidth	10 MHz
RF output power	2x60W or 4x30W (by SW)
Noise figure – RX Diversity schema	2 dB typ. (<2.5 dB max) – 2, or 4 way Rx diversity
Sizes (HxWxD) in mm (in.)	550 x 305 x 230 (21.6" x 12.0" x 9") (with solar shield)
Volume in L	38 (with solar shield)
Weight in kg (lb) (w/o mounting HW)	26 (57.2) (with solar shield)
DC voltage range	-40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	550W typical @100% RF load (in 2Tx or 4Tx mode)
Environmental conditions	-40°C (-40°F) / +55°C (+131°F)
Wind load (@150km/h or 93mph)	IP65 Frontal: <200N / Lateral : <150N
Antenna ports	4 ports 7/16 DIN female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate7, 9.8 Gbps) SFP single mode dual fiber
AISG interfaces	1 AISG2.0 output (RS485) Integrated Smart Bias Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) – 4 RF Tx & 4 RF Rx monitor ports - 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27

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ATTACHMENT 2

Site Name: Pomfret E Tower Height: 168ft		General	Power	Density					
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total	
*Sprint	2	625	170.5	1900	0.0166	1.0000	0.17%		
*T-Mobile	2	1710	137	1900	0.0717	1.0000	0.72%		
*T-Mobile	2	855	137	1900	0.0358	1.0000	0.36%		
*T-Mobile	2	855	137	1900	0.0358	1.0000	0.36%		
*T-Mobile	1	695	137	700	0.0146	0.4667	0.31%		
Verizon PCS	11	445	157	0.0714	1970	1.0000	7.14%		
Verizon Cellular	9	341	157	0.0448	869	0.5793	7.73%		
Verizon AWS	1	5600	157	0.0817	2145	1.0000	8.17%		
Verizon 700	1	1550	157	0.0226	746	0.4973	4.55%		29.50%
* Source: Siting Council									

ATTACHMENT 3



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
8445 Freeport Parkway, Suite 375, Irving, Texas 75063

Structural Analysis Report

Existing 168 ft. SUMMIT Monopole
Customer Name: SBA Communications Corp
Customer Site Number: CT02217-S-02
Customer Site Name: Pomfret School
Carrier Name: Verizon
Carrier Site ID / Name: Pomfret East
Site Location: 398 Pomfret Street
Pomfret, CT
Windham County
Latitude: 41.890094
Longitude: -71.955008

Analysis Result:

Max Structural Usage: 54.5% [Pass]
Max Foundation Usage: 48.0% [Pass]
Report Prepared By : Delu Zhou



Introduction

The purpose of this report is to summarize the analysis results on the 168 ft. SUMMIT Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Monopole original shaft section data prepared by Summit, LLC & Paul J. Ford and Company. Dated 11-23-1999. Job No 29299-802. Design No 5762. Monopole previous structural report prepared by FDH Engineering, Inc. Dated 11-14-2014. Project No 146GSJ1400.
Foundation Drawing	Monopole foundation mapping report prepared by FDH Engineering, Inc. Dated 08-21-2012. Project No 1201570EN1.
Geotechnical Report	Monopole geotechnical report prepared by FDH Engineering, Inc. Dated 09-12-2012. Project No 1201570EG1.
Modification Drawings	N/A

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the ANSI/TIA/EIA 222-G. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 130.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 101.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	ANSI/TIA/EIA 222-G / 2012 IBC
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft.)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	167.0	6	Decibel DB908H90E-M w/ Mount Pipe	Low Profile Platform	(6) 1 5/8"	Sprint
-	157.0	6	Commscope LNX-6514DS-VTM - Panel	Low Profile Platform	(12) 1 5/8"; (1) 1 5/8" Hybriflex	Verizon
-		6	Commscope HBXX-6517DS-VTM - Panel			
-		3	ALU RRH 2x60-AWS			
-		3	ALU RRH 2x40-700U			
-		1	RFS DB-T1-6Z-8AB-OZ			
8	147.0	3	RFS APXV18-206516S-C-A20 - Panel	Low Profile Platform w/ Reinforcement Kit Site Pro PRK-1245	(12) 1 5/8"	T-Mobile
9		3	Commscope LNX-6515DS-VTM - Panel			
10		3	Allen Telecom FE15501P77/75			
11		3	Ericsson KRY 112 144/1			
12		3	Kathrein 782 11056			

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft.)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
2	157.0	3	Commscope LNX-6514DS-AIM - Panel	(1) Low Profile Platform	(11) 1 5/8" (1) 1 5/8" Fiber	Verizon
3		6	Commscope HBXX-6517DS-A2M - Panel			
4		3	Amphenol QUAD656COOOOx - Panel			
5		3	ALU RRH2x60-AWS - RRH			
6		3	ALU RRH2x60-700 - RRH			
7		1	RFS DB-T1-6Z-8AB-OZ - ODU			

All transmission lines are considered running inside of the pole shafts.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	54.5%	52.4%	49.7%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)
Original Design Reactions	4750.0	37.5
Analysis Reactions	3550.4	31.2
Factored Reactions*	6412.5	50.6
% of Design Reactions	55.4%	61.6%

* Per section 15.5.1 of the TIA-222-G standard, factored reactions were obtained by multiplying a 1.35 factor to the original design reactions.

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

The maximum twist and sway of the antennas under the operational wind speed as specified in the Analysis Criteria are listed in the table below:

Elevation (ft.)	Antenna / Dish	Carrier	Twist (deg.)	Sway (deg.)
157.0	Amphenol QUAD656COOOOx - Panel	Verizon	0.000	1.048
157.0	Commscope HBXX-6517DS-A2M - Panel	Verizon	0.000	1.048
157.0	Commscope LNX-6514DS-AIM - Panel	Verizon	0.000	1.048

It is recommended that the carriers review the twist and sway values of the antennas.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the ANSI/TIA/EIA 222-G Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The analysis is based on the presumption that the tower members and components along with any existing reinforcement items have been correctly and properly designed, manufactured, installed and maintained.
3. All the existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion.
4. An initial tension of 10% of the break strength on all the existing guy wires was assumed in all the structural analyses of guyed towers unless different values were provided by the client. **TES** cannot take responsibility for the deviations in the analysis results because of differences in the initial tension forces of the existing guy wires.
5. Secondary component or connection secondary components, welds and bolts are assumed to be able to carry their intended original design loads. **TES** cannot take responsibility for verification of the adequacy on the connections, bolts and welds present in the structure.
6. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the EIA/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
7. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
8. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
9. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 54.53% at 49.0ft

Structure: CT02217-S-SBA
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.000 (ft)

Code: EIA/TIA-222-G
Exposure: C
Gh: 1.1

10/20/2016

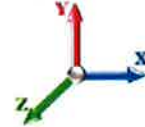
Page: 1



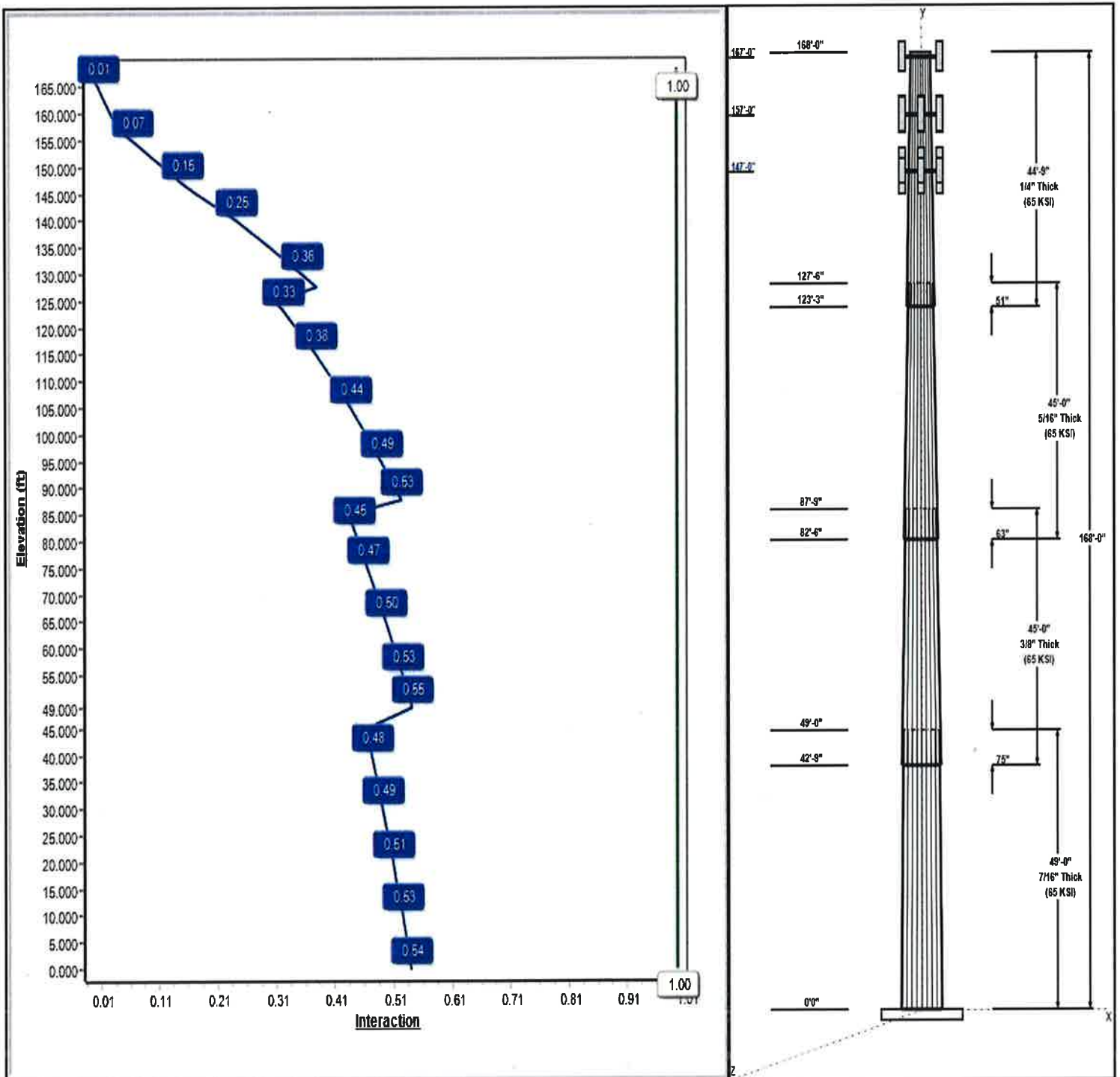
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Iterations: 25

Load Case : 1.2D + 1.6W 101 mph Wind



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Structure: CT02217-S-SBA

Type: Tapered
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.22003

10/20/2016



Page: 2

Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	49.00	48.31	59.09	0.438		0.22003	65
2	45.00	40.53	50.43	0.375	Slip	0.22003	65
3	45.00	32.41	42.31	0.313	Slip	0.22003	65
4	44.75	24.00	33.85	0.250	Slip	0.22003	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
168.00	170.50	1	Lightning Rod	---
167.00	167.00	6	Decibel DB908H90E-M w/	Sprint
167.00	167.00	1	Low Profile Platform	Sprint
157.00	157.00	3	Amphenol	Verizon
157.00	157.00	6	Commscope	Verizon
157.00	157.00	3	Commscope	Verizon
157.00	157.00	3	ALU RRH2x60-700	Verizon
157.00	157.00	3	ALU RRH2x60-AWS	Verizon
157.00	157.00	1	RFS DB-T1-6Z-8AB-0Z	Verizon
157.00	157.00	1	Low Profile Platform	Verizon
147.00	147.00	3	RFS	T-Mobile
147.00	147.00	3	Commscope	T-Mobile
147.00	147.00	3	Allen Telecom	T-Mobile
147.00	147.00	3	Ericsson KRY 112 144/1	T-Mobile
147.00	147.00	3	Kathrein 782 11056	T-Mobile
147.00	147.00	1	Low Profile Platform w/	T-Mobile

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
3.00	168.00	Outside	Safety Cable	
3.00	168.00	Outside	Step bolts (ladder)	
3.00	167.00	Inside	1 5/8" Coax	Sprint
3.00	157.00	Inside	1 5/8" Coax	Verizon
3.00	157.00	Inside	1 5/8" Fiber	Verizon
3.00	147.00	Inside	1 5/8" Coax	T-Mobile

Anchor Bolts

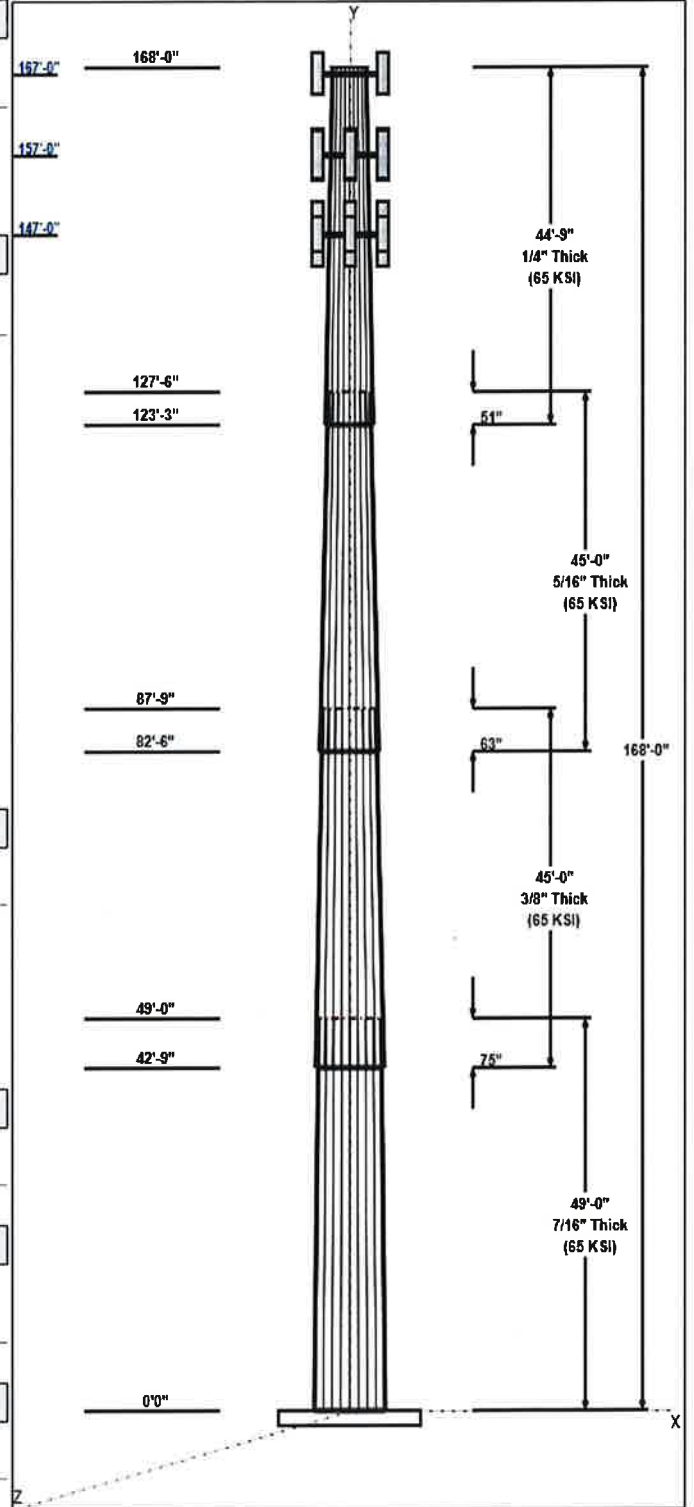
Qty	Specifications	Grade (ksi)	Arrangement
20	2.25" 18J	75.0	Cluster

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.0000	65.0	50.0	Clipped

Reactions

Load Case	Moment	Shear	Axial
1.2D + 1.6W 101 mph Wind	3550.4	31.2	49.1
0.9D + 1.6W 101 mph Wind	3518.1	31.2	36.8
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1057.6	9.2	81.0
1.0D + 1.0W 60 mph Wind	778.9	6.9	40.9



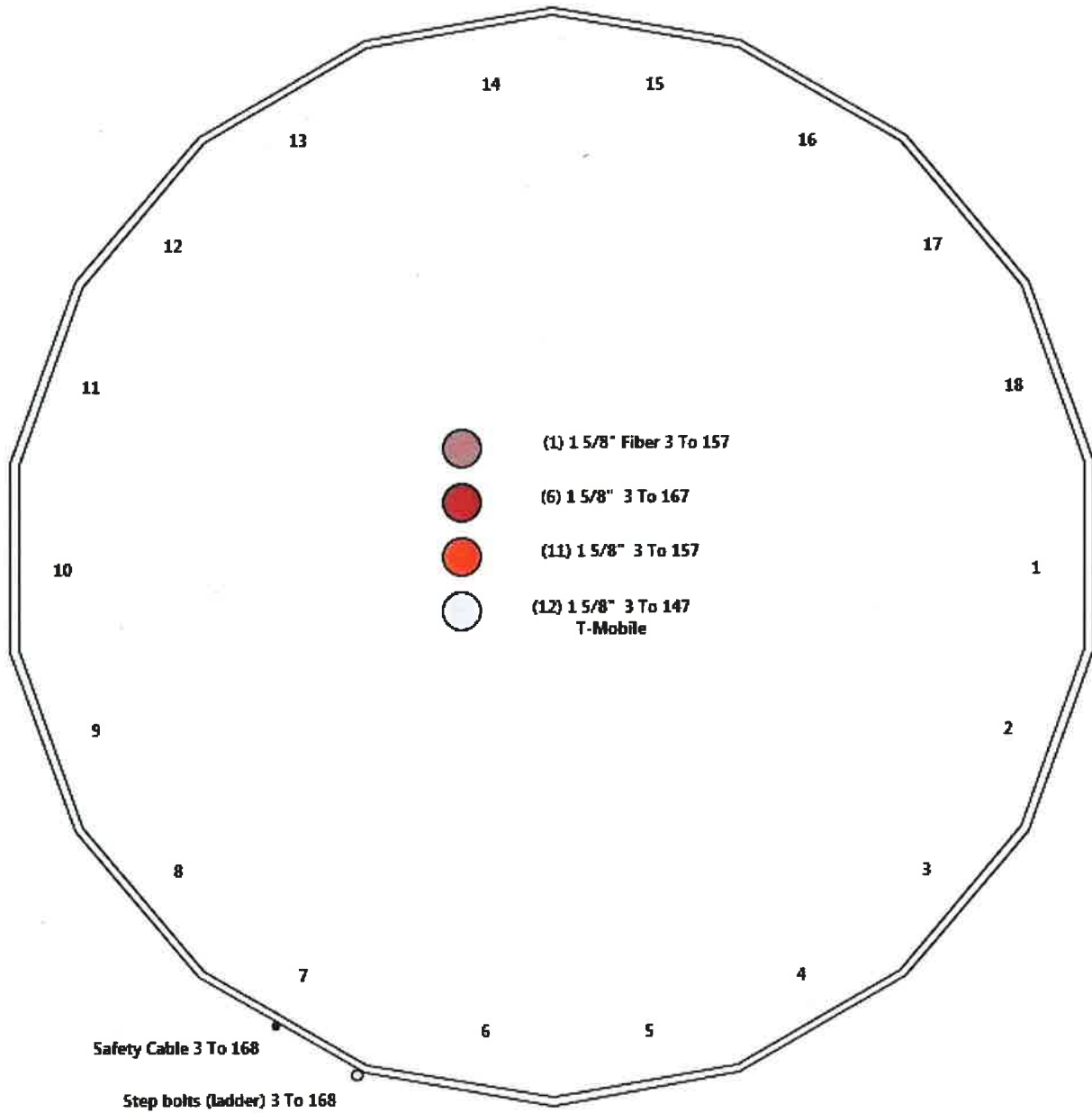
Structure: CT02217-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Pomfret School
Height: 168.00 (ft)

10/20/2016



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Shaft Properties

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	49.000	0.4375	65		0.00	12,331
2	18	45.000	0.3750	65	Slip	75.00	8,221
3	18	45.000	0.3125	65	Slip	63.00	5,627
4	18	44.750	0.2500	65	Slip	51.00	3,464
Total Shaft Weight:							29,644

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Taper
1	59.09	0.00	81.44	35398.27	22.40	135.06	48.31	49.00	66.47	19246.0	18.06	110.4	0.220030
2	50.43	42.75	59.58	18863.19	22.30	134.49	40.53	87.75	47.80	9738.05	17.65	108.0	0.220030
3	42.31	82.50	41.66	9284.18	22.46	135.40	32.41	127.50	31.84	4144.35	16.88	103.7	0.220030
4	33.85	123.2	26.66	3801.54	22.46	135.39	24.00	168.00	18.84	1343.00	15.52	96.00	0.220030

Load Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	168.00	Lightning Rod	1	35.00	1.05	1.00	77.36	4.251	1.00	0.00	2.50
2	167.00	Decibel DB908H90E-M w/ Mount	6	42.00	3.89	0.74	183.02	5.342	0.74	0.00	0.00
3	167.00	Low Profile Platform	1	1500.00	22.00	1.00	3264.05	45.803	1.00	0.00	0.00
4	157.00	Amphenol QUAD656COOOOx	3	54.00	8.17	0.83	382.65	11.951	0.84	0.00	0.00
5	157.00	Commscope HBXX-6517DS-A2M	6	40.80	8.55	0.77	277.44	12.459	0.78	0.00	0.00
6	157.00	Commscope LNX-6514DS-AIM	3	38.80	8.17	0.83	274.94	11.951	0.84	0.00	0.00
7	157.00	ALU RRH2x60-700	3	60.00	2.23	0.67	153.19	3.652	0.68	0.00	0.00
8	157.00	ALU RRH2x60-AWS	3	60.00	3.50	0.67	176.92	4.557	0.68	0.00	0.00
9	157.00	RFS DB-T1-6Z-8AB-0Z	1	44.00	4.80	1.00	248.39	5.997	1.00	0.00	0.00
10	157.00	Low Profile Platform	1	1500.00	22.00	1.00	3253.19	45.656	1.00	0.00	0.00
11	147.00	RFS APXV18-206516S-C-A20	3	18.70	3.61	0.73	111.94	6.081	0.74	0.00	0.00
12	147.00	Commscope LNX-6515DS-VTM	3	50.30	11.47	0.80	359.28	15.796	0.81	0.00	0.00
13	147.00	Allen Telecom FE15501P77/75	3	17.50	0.54	0.67	48.82	1.311	0.68	0.00	0.00
14	147.00	Ericsson KRY 112 144/1	3	11.00	0.41	0.67	25.35	1.042	0.68	0.00	0.00
15	147.00	Kathrein 782 11056	3	1.80	0.28	0.67	7.82	0.814	0.68	0.00	0.00
16	147.00	Low Profile Platform w/ Reinf. Kit	1	1800.00	25.00	1.00	3890.03	52.867	1.00	0.00	0.00
Totals:			44	6,312.10			18,118.54				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
3.00	168.00	(1) Safety Cable	0.00	Outside
3.00	168.00	(1) Step bolts (ladder)	0.00	Outside
3.00	167.00	(6) 1 5/8" Coax	0.00	Inside
3.00	157.00	(11) 1 5/8" Coax	0.00	Inside
3.00	157.00	(1) 1 5/8" Fiber	0.00	Inside
3.00	147.00	(12) 1 5/8" Coax	0.00	Inside

Shaft Section Properties

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in ²)	Ix (in ⁴)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in ³)	Weight (lb)
0.00		0.4375	59.090	81.443	35398.3	22.40	135.06	75.0	1179.	0.0
5.00		0.4375	57.990	79.916	33443.5	21.96	132.55	75.6	1135.	1372.7
10.00		0.4375	56.890	78.388	31562.0	21.52	130.03	76.1	1092.	1346.7
15.00		0.4375	55.790	76.860	29752.5	21.07	127.52	76.6	1050.	1320.7
20.00		0.4375	54.689	75.333	28013.5	20.63	125.00	77.1	1008.	1294.7
25.00		0.4375	53.589	73.805	26343.6	20.19	122.49	77.7	968.2	1268.7
30.00		0.4375	52.489	72.278	24741.4	19.74	119.98	78.2	928.4	1242.7
35.00		0.4375	51.389	70.750	23205.6	19.30	117.46	78.7	889.4	1216.7
40.00		0.4375	50.289	69.222	21734.6	18.86	114.95	79.2	851.3	1190.7
42.75	Bot - Section 2	0.4375	49.684	68.382	20952.8	18.61	113.56	79.5	830.6	643.8
45.00		0.4375	49.189	67.695	20327.2	18.41	112.43	79.7	813.9	974.8
49.00	Top - Section 1	0.3750	49.059	57.943	17350.9	21.66	130.82	0.0	0.0	1708.9
50.00		0.3750	48.839	57.682	17116.7	21.55	130.24	76.0	690.3	196.7
55.00		0.3750	47.738	56.372	15977.3	21.04	127.30	76.7	659.2	970.2
60.00		0.3750	46.638	55.063	14889.6	20.52	124.37	77.3	628.8	948.0
65.00		0.3750	45.538	53.753	13852.4	20.00	121.43	77.9	599.1	925.7
70.00		0.3750	44.438	52.444	12864.6	19.48	118.50	78.5	570.2	903.4
75.00		0.3750	43.338	51.135	11924.8	18.97	115.57	79.1	542.0	881.1
80.00		0.3750	42.238	49.825	11032.0	18.45	112.63	79.7	514.4	858.9
82.50	Bot - Section 3	0.3750	41.688	49.170	10602.8	18.19	111.17	80.0	501.0	421.1
85.00		0.3750	41.137	48.516	10184.9	17.93	109.70	80.3	487.6	767.6
87.75	Top - Section 2	0.3125	41.157	40.512	8539.0	21.81	131.70	0.0	0.0	832.5
90.00		0.3125	40.662	40.021	8232.3	21.53	130.12	76.1	398.8	308.3
95.00		0.3125	39.562	38.929	7577.1	20.91	126.60	76.8	377.2	671.6
100.00		0.3125	38.462	37.838	6957.6	20.29	123.08	77.5	356.3	653.1
105.00		0.3125	37.362	36.747	6372.9	19.67	119.56	78.3	336.0	634.5
110.00		0.3125	36.262	35.656	5821.9	19.05	116.04	79.0	316.2	615.9
115.00		0.3125	35.162	34.565	5303.6	18.43	112.52	79.7	297.1	597.4
120.00		0.3125	34.061	33.474	4817.0	17.81	109.00	80.5	278.5	578.8
123.25	Bot - Section 4	0.3125	33.346	32.764	4517.2	17.40	106.71	80.9	266.8	366.3
125.00		0.3125	32.961	32.382	4361.1	17.19	105.48	81.2	260.6	351.8
127.50	Top - Section 3	0.2500	32.911	25.916	3492.9	21.80	131.64	0.0	0.0	495.5
130.00		0.2500	32.361	25.479	3319.3	21.41	129.44	76.2	202.0	218.6
135.00		0.2500	31.261	24.606	2989.7	20.64	125.04	77.1	188.4	426.1
140.00		0.2500	30.161	23.733	2682.7	19.86	120.64	78.0	175.2	411.2
145.00		0.2500	29.061	22.860	2397.4	19.09	116.24	79.0	162.5	396.4
147.00		0.2500	28.621	22.511	2289.2	18.78	114.48	79.3	157.5	154.4
150.00		0.2500	27.961	21.988	2133.1	18.31	111.84	79.9	150.3	227.1
155.00		0.2500	26.860	21.115	1889.0	17.53	107.44	80.8	138.5	366.7
157.00		0.2500	26.420	20.765	1796.9	17.22	105.68	81.1	134.0	142.5
160.00		0.2500	25.760	20.242	1664.3	16.76	103.04	81.7	127.3	209.3
165.00		0.2500	24.660	19.369	1458.1	15.98	98.64	82.5	116.5	337.0
167.00		0.2500	24.220	19.020	1380.7	15.67	96.88	82.5	112.3	130.6
168.00		0.2500	24.000	18.845	1343.0	15.52	96.00	82.5	110.2	64.4

29643.8

Wind Loading - Shaft

Structure: CT02217-S-SBA
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

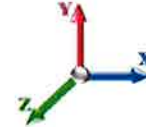
10/20/2016

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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	21.088	23.20	465.60	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	21.088	23.20	456.93	0.650	0.000	5.00	24.768	16.10	597.5	0.0	1647.2
10.00		1.00	0.85	21.088	23.20	448.26	0.650	0.000	5.00	24.302	15.80	586.3	0.0	1616.0
15.00		1.00	0.85	21.088	23.20	439.59	0.650	0.000	5.00	23.837	15.49	575.0	0.0	1584.8
20.00		1.00	0.90	22.375	24.61	443.88	0.650	0.000	5.00	23.372	15.19	598.2	0.0	1553.6
25.00		1.00	0.95	23.451	25.80	445.29	0.650	0.000	5.00	22.906	14.89	614.5	0.0	1522.5
30.00		1.00	0.98	24.369	26.81	444.60	0.650	0.000	5.00	22.441	14.59	625.6	0.0	1491.3
35.00		1.00	1.01	25.172	27.69	442.40	0.650	0.000	5.00	21.975	14.28	632.8	0.0	1460.1
40.00		1.00	1.04	25.890	28.48	439.06	0.650	0.000	5.00	21.510	13.98	637.1	0.0	1428.9
42.75	Bot - Section 2	1.00	1.06	26.255	28.88	436.82	0.650	0.000	2.75	11.632	7.56	349.4	0.0	772.6
45.00		1.00	1.07	26.540	29.19	434.81	0.650	0.000	2.25	9.555	6.21	290.1	0.0	1169.8
49.00	Top - Section 1	1.00	1.09	27.020	29.72	430.88	0.650	0.000	4.00	16.754	10.89	517.9	0.0	2050.7
50.00		1.00	1.09	27.135	29.85	436.53	0.650	0.000	1.00	4.142	2.69	128.6	0.0	236.1
55.00		1.00	1.12	27.685	30.45	431.00	0.650	0.000	5.00	20.431	13.28	647.1	0.0	1164.3
60.00		1.00	1.14	28.197	31.02	424.94	0.650	0.000	5.00	19.965	12.98	644.0	0.0	1137.6
65.00		1.00	1.16	28.676	31.54	418.43	0.650	0.000	5.00	19.500	12.67	639.7	0.0	1110.8
70.00		1.00	1.17	29.127	32.04	411.52	0.650	0.000	5.00	19.034	12.37	634.2	0.0	1084.1
75.00		1.00	1.19	29.553	32.51	404.25	0.650	0.000	5.00	18.569	12.07	627.8	0.0	1057.4
80.00		1.00	1.21	29.958	32.95	396.68	0.650	0.000	5.00	18.103	11.77	620.4	0.0	1030.6
82.50	Bot - Section 3	1.00	1.22	30.152	33.17	392.78	0.650	0.000	2.50	8.877	5.77	306.2	0.0	505.3
85.00		1.00	1.22	30.342	33.38	388.82	0.650	0.000	2.50	8.893	5.78	308.7	0.0	921.1
87.75	Top - Section 2	1.00	1.23	30.546	33.60	384.39	0.650	0.000	2.75	9.648	6.27	337.1	0.0	999.0
90.00		1.00	1.24	30.710	33.78	386.65	0.650	0.000	2.25	7.789	5.06	273.6	0.0	369.9
95.00		1.00	1.25	31.061	34.17	378.33	0.650	0.000	5.00	16.971	11.03	603.1	0.0	805.9
100.00		1.00	1.27	31.399	34.54	369.80	0.650	0.000	5.00	16.506	10.73	592.9	0.0	783.7
105.00		1.00	1.28	31.723	34.89	361.08	0.650	0.000	5.00	16.040	10.43	582.1	0.0	761.4
110.00		1.00	1.29	32.035	35.24	352.16	0.650	0.000	5.00	15.575	10.12	570.8	0.0	739.1
115.00		1.00	1.30	32.336	35.57	343.08	0.650	0.000	5.00	15.109	9.82	558.9	0.0	716.8
120.00		1.00	1.32	32.627	35.89	333.84	0.650	0.000	5.00	14.644	9.52	546.6	0.0	694.6
123.25	Bot - Section 4	1.00	1.32	32.811	36.09	327.75	0.650	0.000	3.25	9.269	6.02	347.9	0.0	439.5
125.00		1.00	1.33	32.909	36.20	324.45	0.650	0.000	1.75	4.984	3.24	187.6	0.0	422.2
127.50	Top - Section 3	1.00	1.33	33.046	36.35	319.70	0.650	0.000	2.50	7.020	4.56	265.4	0.0	594.6
130.00		1.00	1.34	33.182	36.50	319.86	0.650	0.000	2.50	6.904	4.49	262.1	0.0	262.3
135.00		1.00	1.35	33.446	36.79	310.21	0.650	0.000	5.00	13.459	8.75	515.0	0.0	511.3
140.00		1.00	1.36	33.703	37.07	300.45	0.650	0.000	5.00	12.994	8.45	501.0	0.0	493.5
145.00		1.00	1.37	33.953	37.35	290.56	0.650	0.000	5.00	12.528	8.14	486.6	0.0	475.6
147.00	Appurtenance(s)	1.00	1.37	34.051	37.46	286.57	0.650	0.000	2.00	4.881	3.17	190.1	0.0	185.3
150.00		1.00	1.38	34.196	37.62	280.56	0.650	0.000	3.00	7.182	4.67	281.0	0.0	272.6
155.00		1.00	1.39	34.433	37.88	270.45	0.650	0.000	5.00	11.597	7.54	456.8	0.0	440.0
157.00	Appurtenance(s)	1.00	1.39	34.526	37.98	266.38	0.650	0.000	2.00	4.509	2.93	178.1	0.0	171.0
160.00		1.00	1.40	34.664	38.13	260.24	0.650	0.000	3.00	6.623	4.31	262.6	0.0	251.2
165.00		1.00	1.41	34.890	38.38	249.94	0.650	0.000	5.00	10.666	6.93	425.7	0.0	404.4
167.00	Appurtenance(s)	1.00	1.41	34.978	38.48	245.79	0.650	0.000	2.00	4.136	2.69	165.5	0.0	156.8
168.00	Appurtenance(s)	1.00	1.41	35.022	38.52	243.71	0.650	0.000	1.00	2.040	1.33	81.7	0.0	77.3
Totals:									168.00			19,253.6		35,572.5

Discrete Appurtenance Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

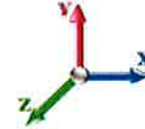


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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	168.00	Lightning Rod	1	35.131	38.644	1.00	1.00	1.05	42.00	0.000	2.500	64.92	0.00	162.31
2	167.00	Low Profile Platform	1	34.978	38.476	1.00	1.00	22.00	1800.00	0.000	0.000	1354.35	0.00	0.00
3	167.00	Decibel DB908H90E-M w/	6	34.978	38.476	0.74	1.00	17.27	302.40	0.000	0.000	1063.27	0.00	0.00
4	157.00	Commscope	3	34.526	37.979	0.66	0.80	16.27	139.68	0.000	0.000	988.95	0.00	0.00
5	157.00	Low Profile Platform	1	34.526	37.979	1.00	1.00	22.00	1800.00	0.000	0.000	1336.86	0.00	0.00
6	157.00	RFS DB-T1-6Z-8AB-0Z	1	34.526	37.979	1.00	1.00	4.80	52.80	0.000	0.000	291.68	0.00	0.00
7	157.00	ALU RRH2x60-AWS	3	34.526	37.979	0.54	0.80	5.63	216.00	0.000	0.000	341.99	0.00	0.00
8	157.00	ALU RRH2x60-700	3	34.526	37.979	0.54	0.80	3.59	216.00	0.000	0.000	217.90	0.00	0.00
9	157.00	Commscope	6	34.526	37.979	0.62	0.80	31.60	293.76	0.000	0.000	1920.27	0.00	0.00
10	157.00	Amphenol	3	34.526	37.979	0.66	0.80	16.27	194.40	0.000	0.000	988.95	0.00	0.00
11	147.00	Low Profile Platform w/	1	34.051	37.456	1.00	1.00	25.00	2160.00	0.000	0.000	1498.26	0.00	0.00
12	147.00	Kathrein 782 11056	3	34.051	37.456	0.54	0.80	0.45	6.48	0.000	0.000	26.98	0.00	0.00
13	147.00	Ericsson KRY 112 144/1	3	34.051	37.456	0.54	0.80	0.66	39.60	0.000	0.000	39.51	0.00	0.00
14	147.00	Allen Telecom	3	34.051	37.456	0.54	0.80	0.87	63.00	0.000	0.000	52.04	0.00	0.00
15	147.00	Commscope	3	34.051	37.456	0.64	0.80	22.02	181.08	0.000	0.000	1319.81	0.00	0.00
16	147.00	RFS	3	34.051	37.456	0.58	0.80	6.32	67.32	0.000	0.000	379.04	0.00	0.00
Totals:									7,574.52			11,884.79		

Total Applied Force Summary

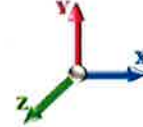
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 9
	Struct Class: II	



Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	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		597.50	1725.38	0.00	0.00
10.00		586.27	1811.46	0.00	0.00
15.00		575.05	1780.27	0.00	0.00
20.00		598.23	1749.08	0.00	0.00
25.00		614.52	1717.89	0.00	0.00
30.00		625.59	1686.70	0.00	0.00
35.00		632.82	1655.51	0.00	0.00
40.00		637.08	1624.32	0.00	0.00
42.75		349.37	880.08	0.00	0.00
45.00		290.11	1257.74	0.00	0.00
49.00		517.89	2207.01	0.00	0.00
50.00		128.58	275.16	0.00	0.00
55.00		647.08	1359.74	0.00	0.00
60.00		644.02	1333.00	0.00	0.00
65.00		639.70	1306.27	0.00	0.00
70.00		634.25	1279.54	0.00	0.00
75.00		627.79	1252.80	0.00	0.00
80.00		620.43	1226.07	0.00	0.00
82.50		306.21	603.01	0.00	0.00
85.00		308.69	1018.79	0.00	0.00
87.75		337.14	1106.52	0.00	0.00
90.00		273.64	457.89	0.00	0.00
95.00		603.06	1001.38	0.00	0.00
100.00		592.89	979.11	0.00	0.00
105.00		582.12	956.83	0.00	0.00
110.00		570.79	934.55	0.00	0.00
115.00		558.93	912.27	0.00	0.00
120.00		546.59	889.99	0.00	0.00
123.25		347.92	566.55	0.00	0.00
125.00		187.62	490.57	0.00	0.00
127.50		265.41	692.29	0.00	0.00
130.00		262.08	360.05	0.00	0.00
135.00		514.98	706.73	0.00	0.00
140.00		500.99	688.91	0.00	0.00
145.00		486.62	671.08	0.00	0.00
147.00	(16) attachments	3505.78	2780.92	0.00	0.00
150.00		280.96	344.89	0.00	0.00
155.00		456.83	560.56	0.00	0.00
157.00	(20) attachments	6264.69	3131.87	0.00	0.00
160.00		262.65	278.36	0.00	0.00
165.00		425.73	449.67	0.00	0.00
167.00	(7) attachments	2583.13	2277.28	0.00	0.00
168.00	(1) attachments	146.66	120.88	0.00	162.31
	Totals:	31,138.37	49,108.97	0.00	162.31

Linear Appurtenance Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

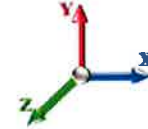


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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.003	0.000	21.088	0.00	0.66
5.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.003	0.000	21.088	0.00	2.50
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	21.088	0.00	1.64
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	21.088	0.00	6.24
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	21.088	0.00	1.64
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	21.088	0.00	6.24
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	22.375	0.00	1.64
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	22.375	0.00	6.24
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	23.451	0.00	1.64
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	23.451	0.00	6.24
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	24.369	0.00	1.64
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	24.369	0.00	6.24
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	25.172	0.00	1.64
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	25.172	0.00	6.24
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	25.890	0.00	1.64
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	25.890	0.00	6.24
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.007	0.000	26.255	0.00	0.90
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.007	0.000	26.255	0.00	3.43
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.008	0.000	26.540	0.00	0.74
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.008	0.000	26.540	0.00	2.81
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.008	0.000	27.020	0.00	1.31
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.008	0.000	27.020	0.00	4.99
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.008	0.000	27.135	0.00	0.33
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.008	0.000	27.135	0.00	1.25
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	27.685	0.00	1.64
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	27.685	0.00	6.24
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	28.197	0.00	1.64
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	28.197	0.00	6.24
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	28.676	0.00	1.64
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	28.676	0.00	6.24
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	29.127	0.00	1.64
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	29.127	0.00	6.24
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	29.553	0.00	1.64
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	29.553	0.00	6.24
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	29.958	0.00	1.64
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	29.958	0.00	6.24
82.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	30.152	0.00	0.82
82.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	30.152	0.00	3.12
85.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	30.342	0.00	0.82
85.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	30.342	0.00	3.12
87.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.009	0.000	30.546	0.00	0.90
87.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.009	0.000	30.546	0.00	3.43
90.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.009	0.000	30.710	0.00	0.74
90.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.009	0.000	30.710	0.00	2.81
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	31.061	0.00	1.64
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	31.061	0.00	6.24
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	31.399	0.00	1.64

Linear Appurtenance Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

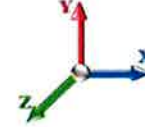


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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	31.399	0.00	6.24
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	31.723	0.00	1.64
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	31.723	0.00	6.24
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	32.035	0.00	1.64
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	32.035	0.00	6.24
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	32.336	0.00	1.64
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	32.336	0.00	6.24
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	32.627	0.00	1.64
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.011	0.000	32.627	0.00	6.24
123.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.011	0.000	32.811	0.00	1.06
123.25	Step bolts (ladder)	Yes	3.25	0.000	0.00	0.00	0.00	0.011	0.000	32.811	0.00	4.06
125.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.011	0.000	32.909	0.00	0.57
125.00	Step bolts (ladder)	Yes	1.75	0.000	0.00	0.00	0.00	0.011	0.000	32.909	0.00	2.18
127.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	33.046	0.00	0.82
127.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	33.046	0.00	3.12
130.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	33.182	0.00	0.82
130.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	33.182	0.00	3.12
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	33.446	0.00	1.64
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	33.446	0.00	6.24
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	33.703	0.00	1.64
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	33.703	0.00	6.24
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	33.953	0.00	1.64
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.013	0.000	33.953	0.00	6.24
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.013	0.000	34.051	0.00	0.66
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.013	0.000	34.051	0.00	2.50
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.013	0.000	34.196	0.00	0.98
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.013	0.000	34.196	0.00	3.74
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	34.433	0.00	1.64
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.014	0.000	34.433	0.00	6.24
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.014	0.000	34.526	0.00	0.66
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.014	0.000	34.526	0.00	2.50
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.014	0.000	34.664	0.00	0.98
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.014	0.000	34.664	0.00	3.74
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	34.890	0.00	1.64
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.015	0.000	34.890	0.00	6.24
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.015	0.000	34.978	0.00	0.66
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.015	0.000	34.978	0.00	2.50
168.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.016	0.000	35.022	0.00	0.33
168.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.016	0.000	35.022	0.00	1.25
Totals:											0.0	260.0

Calculated Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 12
	Struct Class: II	

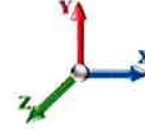


Load Case: 1.2D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 1.20

Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-49.07	-31.20	0.00	-3550.3	0.00	3550.36	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.544
5.00	-47.27	-30.72	0.00	-3394.3	0.00	3394.36	5435.34	2717.67	12856.9	6438.04	0.08	-0.140	0.000	0.536
10.00	-45.39	-30.24	0.00	-3240.7	0.00	3240.79	5368.23	2684.11	12453.6	6236.09	0.30	-0.281	0.000	0.528
15.00	-43.54	-29.76	0.00	-3089.6	0.00	3089.61	5299.69	2649.84	12053.2	6035.57	0.67	-0.423	0.000	0.520
20.00	-41.72	-29.25	0.00	-2940.8	0.00	2940.83	5229.71	2614.86	11655.8	5836.57	1.19	-0.567	0.000	0.512
25.00	-39.93	-28.72	0.00	-2794.5	0.00	2794.58	5158.30	2579.15	11261.6	5639.20	1.86	-0.713	0.000	0.503
30.00	-38.18	-28.17	0.00	-2650.9	0.00	2650.99	5085.46	2542.73	10870.9	5443.55	2.69	-0.860	0.000	0.495
35.00	-36.47	-27.60	0.00	-2510.1	0.00	2510.15	5011.18	2505.59	10483.8	5249.72	3.67	-1.008	0.000	0.486
40.00	-34.80	-27.01	0.00	-2372.1	0.00	2372.13	4935.46	2467.73	10100.6	5057.82	4.81	-1.158	0.000	0.476
42.75	-33.89	-26.68	0.00	-2297.8	0.00	2297.86	4893.21	2446.61	9891.54	4953.12	5.50	-1.242	0.000	0.471
45.00	-32.60	-26.42	0.00	-2237.8	0.00	2237.82	4858.32	2429.16	9721.41	4867.93	6.10	-1.311	0.000	0.467
49.00	-30.37	-25.89	0.00	-2132.1	0.00	2132.14	3959.59	1979.80	7922.06	3966.92	7.25	-1.434	0.000	0.545
50.00	-30.05	-25.81	0.00	-2106.2	0.00	2106.25	3948.01	1974.01	7862.92	3937.31	7.56	-1.465	0.000	0.543
55.00	-28.63	-25.21	0.00	-1977.2	0.00	1977.21	3889.26	1944.63	7568.72	3789.99	9.18	-1.635	0.000	0.529
60.00	-27.25	-24.61	0.00	-1851.1	0.00	1851.16	3829.07	1914.54	7277.15	3643.98	10.98	-1.805	0.000	0.515
65.00	-25.89	-24.00	0.00	-1728.1	0.00	1728.13	3767.45	1883.72	6988.40	3499.39	12.97	-1.976	0.000	0.501
70.00	-24.57	-23.40	0.00	-1608.1	0.00	1608.12	3704.39	1852.20	6702.67	3356.32	15.13	-2.148	0.000	0.486
75.00	-23.27	-22.79	0.00	-1491.1	0.00	1491.14	3639.90	1819.95	6420.16	3214.85	17.47	-2.319	0.000	0.470
80.00	-22.02	-22.17	0.00	-1377.1	0.00	1377.19	3573.98	1786.99	6141.06	3075.10	19.99	-2.490	0.000	0.454
82.50	-21.40	-21.87	0.00	-1321.7	0.00	1321.77	3540.48	1770.24	6002.85	3005.89	21.32	-2.577	0.000	0.446
85.00	-20.36	-21.54	0.00	-1267.1	0.00	1267.11	3506.62	1753.31	5865.57	2937.15	22.69	-2.664	0.000	0.437
87.75	-19.24	-21.18	0.00	-1207.8	0.00	1207.86	2761.71	1380.86	4636.01	2321.45	24.25	-2.759	0.000	0.528
90.00	-18.75	-20.93	0.00	-1160.1	0.00	1160.19	2740.07	1370.04	4543.51	2275.13	25.57	-2.837	0.000	0.517
95.00	-17.71	-20.34	0.00	-1055.5	0.00	1055.53	2690.94	1345.47	4339.45	2172.95	28.64	-3.028	0.000	0.493
100.00	-16.70	-19.75	0.00	-953.83	0.00	953.83	2640.38	1320.19	4137.62	2071.89	31.92	-3.217	0.000	0.467
105.00	-15.72	-19.16	0.00	-855.09	0.00	855.09	2588.38	1294.19	3938.22	1972.04	35.38	-3.402	0.000	0.440
110.00	-14.76	-18.58	0.00	-759.29	0.00	759.29	2534.95	1267.48	3741.44	1873.50	39.04	-3.582	0.000	0.411
115.00	-13.83	-18.01	0.00	-666.38	0.00	666.38	2480.09	1240.04	3547.48	1776.38	42.88	-3.756	0.000	0.381
120.00	-12.94	-17.43	0.00	-576.35	0.00	576.35	2423.79	1211.90	3356.53	1680.76	46.91	-3.923	0.000	0.348
123.25	-12.38	-17.06	0.00	-519.70	0.00	519.70	2386.43	1193.21	3234.12	1619.46	49.61	-4.028	0.000	0.326
125.00	-11.88	-16.85	0.00	-489.84	0.00	489.84	2366.06	1183.03	3168.79	1586.75	51.10	-4.083	0.000	0.314
127.50	-11.19	-16.55	0.00	-447.71	0.00	447.71	1766.99	883.49	2371.88	1187.70	53.26	-4.160	0.000	0.384
130.00	-10.82	-16.29	0.00	-406.32	0.00	406.32	1747.69	873.85	2306.16	1154.80	55.45	-4.233	0.000	0.358
135.00	-10.11	-15.75	0.00	-324.88	0.00	324.88	1708.02	854.01	2176.01	1089.62	59.97	-4.390	0.000	0.304
140.00	-9.43	-15.22	0.00	-246.13	0.00	246.13	1666.92	833.46	2047.71	1025.37	64.64	-4.526	0.000	0.246
145.00	-8.78	-14.69	0.00	-170.06	0.00	170.06	1624.39	812.19	1921.45	962.15	69.44	-4.636	0.000	0.182
147.00	-6.29	-10.97	0.00	-140.68	0.00	140.68	1606.97	803.49	1871.57	937.18	71.39	-4.673	0.000	0.154
150.00	-5.96	-10.67	0.00	-107.77	0.00	107.77	1580.42	790.21	1797.44	900.06	74.33	-4.719	0.000	0.124
155.00	-5.43	-10.17	0.00	-54.42	0.00	54.42	1535.02	767.51	1675.88	839.18	79.30	-4.773	0.000	0.069
157.00	-2.83	-3.67	0.00	-34.08	0.00	34.08	1516.46	758.23	1627.98	815.20	81.30	-4.787	0.000	0.044
160.00	-2.57	-3.38	0.00	-23.08	0.00	23.08	1488.18	744.09	1556.95	779.63	84.31	-4.800	0.000	0.031
165.00	-2.16	-2.92	0.00	-6.16	0.00	6.16	1439.00	719.50	1439.93	721.04	89.34	-4.813	0.000	0.010
167.00	-0.11	-0.16	0.00	-0.32	0.00	0.32	1413.06	706.53	1388.23	695.14	91.36	-4.814	0.000	0.001
168.00	0.00	-0.15	0.00	-0.16	0.00	0.16	1400.09	700.04	1362.73	682.38	92.36	-4.814	0.000	0.000

Wind Loading - Shaft

Structure: CT02217-S-SBA
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

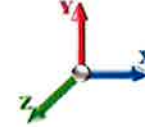
10/20/2016

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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	21.088	23.20	465.60	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	21.088	23.20	456.93	0.650	0.000	5.00	24.768	16.10	597.5	0.0	1235.4
10.00		1.00	0.85	21.088	23.20	448.26	0.650	0.000	5.00	24.302	15.80	586.3	0.0	1212.0
15.00		1.00	0.85	21.088	23.20	439.59	0.650	0.000	5.00	23.837	15.49	575.0	0.0	1188.6
20.00		1.00	0.90	22.375	24.61	443.88	0.650	0.000	5.00	23.372	15.19	598.2	0.0	1165.2
25.00		1.00	0.95	23.451	25.80	445.29	0.650	0.000	5.00	22.906	14.89	614.5	0.0	1141.8
30.00		1.00	0.98	24.369	26.81	444.60	0.650	0.000	5.00	22.441	14.59	625.6	0.0	1118.4
35.00		1.00	1.01	25.172	27.69	442.40	0.650	0.000	5.00	21.975	14.28	632.8	0.0	1095.1
40.00		1.00	1.04	25.890	28.48	439.06	0.650	0.000	5.00	21.510	13.98	637.1	0.0	1071.7
42.75	Bot - Section 2	1.00	1.06	26.255	28.88	436.82	0.650	0.000	2.75	11.632	7.56	349.4	0.0	579.4
45.00		1.00	1.07	26.540	29.19	434.81	0.650	0.000	2.25	9.555	6.21	290.1	0.0	877.3
49.00	Top - Section 1	1.00	1.09	27.020	29.72	430.88	0.650	0.000	4.00	16.754	10.89	517.9	0.0	1538.0
50.00		1.00	1.09	27.135	29.85	436.53	0.650	0.000	1.00	4.142	2.69	128.6	0.0	177.1
55.00		1.00	1.12	27.685	30.45	431.00	0.650	0.000	5.00	20.431	13.28	647.1	0.0	873.2
60.00		1.00	1.14	28.197	31.02	424.94	0.650	0.000	5.00	19.965	12.98	644.0	0.0	853.2
65.00		1.00	1.16	28.676	31.54	418.43	0.650	0.000	5.00	19.500	12.67	639.7	0.0	833.1
70.00		1.00	1.17	29.127	32.04	411.52	0.650	0.000	5.00	19.034	12.37	634.2	0.0	813.1
75.00		1.00	1.19	29.553	32.51	404.25	0.650	0.000	5.00	18.569	12.07	627.8	0.0	793.0
80.00		1.00	1.21	29.958	32.95	396.68	0.650	0.000	5.00	18.103	11.77	620.4	0.0	773.0
82.50	Bot - Section 3	1.00	1.22	30.152	33.17	392.78	0.650	0.000	2.50	8.877	5.77	306.2	0.0	379.0
85.00		1.00	1.22	30.342	33.38	388.82	0.650	0.000	2.50	8.893	5.78	308.7	0.0	690.8
87.75	Top - Section 2	1.00	1.23	30.546	33.60	384.39	0.650	0.000	2.75	9.648	6.27	337.1	0.0	749.3
90.00		1.00	1.24	30.710	33.78	386.65	0.650	0.000	2.25	7.789	5.06	273.6	0.0	277.5
95.00		1.00	1.25	31.061	34.17	378.33	0.650	0.000	5.00	16.971	11.03	603.1	0.0	604.5
100.00		1.00	1.27	31.399	34.54	369.80	0.650	0.000	5.00	16.506	10.73	592.9	0.0	587.8
105.00		1.00	1.28	31.723	34.89	361.08	0.650	0.000	5.00	16.040	10.43	582.1	0.0	571.0
110.00		1.00	1.29	32.035	35.24	352.16	0.650	0.000	5.00	15.575	10.12	570.8	0.0	554.3
115.00		1.00	1.30	32.336	35.57	343.08	0.650	0.000	5.00	15.109	9.82	558.9	0.0	537.6
120.00		1.00	1.32	32.627	35.89	333.84	0.650	0.000	5.00	14.644	9.52	546.6	0.0	520.9
123.25	Bot - Section 4	1.00	1.32	32.811	36.09	327.75	0.650	0.000	3.25	9.269	6.02	347.9	0.0	329.6
125.00		1.00	1.33	32.909	36.20	324.45	0.650	0.000	1.75	4.984	3.24	187.6	0.0	316.6
127.50	Top - Section 3	1.00	1.33	33.046	36.35	319.70	0.650	0.000	2.50	7.020	4.56	265.4	0.0	445.9
130.00		1.00	1.34	33.182	36.50	319.86	0.650	0.000	2.50	6.904	4.49	262.1	0.0	196.7
135.00		1.00	1.35	33.446	36.79	310.21	0.650	0.000	5.00	13.459	8.75	515.0	0.0	383.5
140.00		1.00	1.36	33.703	37.07	300.45	0.650	0.000	5.00	12.994	8.45	501.0	0.0	370.1
145.00		1.00	1.37	33.953	37.35	290.56	0.650	0.000	5.00	12.528	8.14	486.6	0.0	356.7
147.00	Appurtenance(s)	1.00	1.37	34.051	37.46	286.57	0.650	0.000	2.00	4.881	3.17	190.1	0.0	139.0
150.00		1.00	1.38	34.196	37.62	280.56	0.650	0.000	3.00	7.182	4.67	281.0	0.0	204.4
155.00		1.00	1.39	34.433	37.88	270.45	0.650	0.000	5.00	11.597	7.54	456.8	0.0	330.0
157.00	Appurtenance(s)	1.00	1.39	34.526	37.98	266.38	0.650	0.000	2.00	4.509	2.93	178.1	0.0	128.3
160.00		1.00	1.40	34.664	38.13	260.24	0.650	0.000	3.00	6.623	4.31	262.6	0.0	188.4
165.00		1.00	1.41	34.890	38.38	249.94	0.650	0.000	5.00	10.666	6.93	425.7	0.0	303.3
167.00	Appurtenance(s)	1.00	1.41	34.978	38.48	245.79	0.650	0.000	2.00	4.136	2.69	165.5	0.0	117.6
168.00	Appurtenance(s)	1.00	1.41	35.022	38.52	243.71	0.650	0.000	1.00	2.040	1.33	81.7	0.0	58.0
Totals:									168.00			19,253.6		26,679.4

Discrete Appurtenance Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

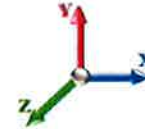


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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	168.00	Lightning Rod	1	35.131	38.644	1.00	1.00	1.05	31.50	0.000	2.500	64.92	0.00	162.31
2	167.00	Low Profile Platform	1	34.978	38.476	1.00	1.00	22.00	1350.00	0.000	0.000	1354.35	0.00	0.00
3	167.00	Decibel DB908H90E-M w/	6	34.978	38.476	0.74	1.00	17.27	226.80	0.000	0.000	1063.27	0.00	0.00
4	157.00	Commscope	3	34.526	37.979	0.66	0.80	16.27	104.76	0.000	0.000	988.95	0.00	0.00
5	157.00	Low Profile Platform	1	34.526	37.979	1.00	1.00	22.00	1350.00	0.000	0.000	1336.86	0.00	0.00
6	157.00	RFS DB-T1-6Z-8AB-0Z	1	34.526	37.979	1.00	1.00	4.80	39.60	0.000	0.000	291.68	0.00	0.00
7	157.00	ALU RRH2x60-AWS	3	34.526	37.979	0.54	0.80	5.63	162.00	0.000	0.000	341.99	0.00	0.00
8	157.00	ALU RRH2x60-700	3	34.526	37.979	0.54	0.80	3.59	162.00	0.000	0.000	217.90	0.00	0.00
9	157.00	Commscope	6	34.526	37.979	0.62	0.80	31.60	220.32	0.000	0.000	1920.27	0.00	0.00
10	157.00	Amphenol	3	34.526	37.979	0.66	0.80	16.27	145.80	0.000	0.000	988.95	0.00	0.00
11	147.00	Low Profile Platform w/	1	34.051	37.456	1.00	1.00	25.00	1620.00	0.000	0.000	1498.26	0.00	0.00
12	147.00	Kathrein 782 11056	3	34.051	37.456	0.54	0.80	0.45	4.86	0.000	0.000	26.98	0.00	0.00
13	147.00	Ericsson KRY 112 144/1	3	34.051	37.456	0.54	0.80	0.66	29.70	0.000	0.000	39.51	0.00	0.00
14	147.00	Allen Telecom	3	34.051	37.456	0.54	0.80	0.87	47.25	0.000	0.000	52.04	0.00	0.00
15	147.00	Commscope	3	34.051	37.456	0.64	0.80	22.02	135.81	0.000	0.000	1319.81	0.00	0.00
16	147.00	RFS	3	34.051	37.456	0.58	0.80	6.32	50.49	0.000	0.000	379.04	0.00	0.00
Totals:									5,680.89			11,884.79		

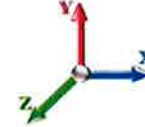
Total Applied Force Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 15
	Struct Class: II	



Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 25

Elev (ft)	Description	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		597.50	1294.04	0.00	0.00
10.00		586.27	1358.59	0.00	0.00
15.00		575.05	1335.20	0.00	0.00
20.00		598.23	1311.81	0.00	0.00
25.00		614.52	1288.42	0.00	0.00
30.00		625.59	1265.02	0.00	0.00
35.00		632.82	1241.63	0.00	0.00
40.00		637.08	1218.24	0.00	0.00
42.75		349.37	660.06	0.00	0.00
45.00		290.11	943.30	0.00	0.00
49.00		517.89	1655.26	0.00	0.00
50.00		128.58	206.37	0.00	0.00
55.00		647.08	1019.80	0.00	0.00
60.00		644.02	999.75	0.00	0.00
65.00		639.70	979.70	0.00	0.00
70.00		634.25	959.65	0.00	0.00
75.00		627.79	939.60	0.00	0.00
80.00		620.43	919.55	0.00	0.00
82.50		306.21	452.26	0.00	0.00
85.00		308.69	764.09	0.00	0.00
87.75		337.14	829.89	0.00	0.00
90.00		273.64	343.42	0.00	0.00
95.00		603.06	751.04	0.00	0.00
100.00		592.89	734.33	0.00	0.00
105.00		582.12	717.62	0.00	0.00
110.00		570.79	700.91	0.00	0.00
115.00		558.93	684.20	0.00	0.00
120.00		546.59	667.50	0.00	0.00
123.25		347.92	424.91	0.00	0.00
125.00		187.62	367.93	0.00	0.00
127.50		265.41	519.22	0.00	0.00
130.00		262.08	270.04	0.00	0.00
135.00		514.98	530.05	0.00	0.00
140.00		500.99	516.68	0.00	0.00
145.00		486.62	503.31	0.00	0.00
147.00	(16) attachments	3505.78	2085.69	0.00	0.00
150.00		280.96	258.67	0.00	0.00
155.00		456.83	420.42	0.00	0.00
157.00	(20) attachments	6264.69	2348.90	0.00	0.00
160.00		262.65	208.77	0.00	0.00
165.00		425.73	337.26	0.00	0.00
167.00	(7) attachments	2583.13	1707.96	0.00	0.00
168.00	(1) attachments	146.66	90.66	0.00	162.31
	Totals:	31,138.37	36,831.73	0.00	162.31

Linear Appurtenance Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

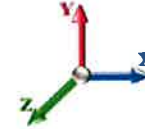


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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.003	0.000	21.088	0.00	0.49
5.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.003	0.000	21.088	0.00	1.87
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	21.088	0.00	1.23
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	21.088	0.00	4.68
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	21.088	0.00	1.23
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	21.088	0.00	4.68
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	22.375	0.00	1.23
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	22.375	0.00	4.68
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	23.451	0.00	1.23
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	23.451	0.00	4.68
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	24.369	0.00	1.23
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	24.369	0.00	4.68
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	25.172	0.00	1.23
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	25.172	0.00	4.68
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	25.890	0.00	1.23
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	25.890	0.00	4.68
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.007	0.000	26.255	0.00	0.68
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.007	0.000	26.255	0.00	2.57
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.008	0.000	26.540	0.00	0.55
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.008	0.000	26.540	0.00	2.11
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.008	0.000	27.020	0.00	0.98
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.008	0.000	27.020	0.00	3.74
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.008	0.000	27.135	0.00	0.25
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.008	0.000	27.135	0.00	0.94
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	27.685	0.00	1.23
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	27.685	0.00	4.68
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	28.197	0.00	1.23
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	28.197	0.00	4.68
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	28.676	0.00	1.23
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	28.676	0.00	4.68
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	29.127	0.00	1.23
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	29.127	0.00	4.68
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	29.553	0.00	1.23
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	29.553	0.00	4.68
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	29.958	0.00	1.23
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	29.958	0.00	4.68
82.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	30.152	0.00	0.61
82.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	30.152	0.00	2.34
85.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	30.342	0.00	0.61
85.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	30.342	0.00	2.34
87.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.009	0.000	30.546	0.00	0.68
87.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.009	0.000	30.546	0.00	2.57
90.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.009	0.000	30.710	0.00	0.55
90.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.009	0.000	30.710	0.00	2.11
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	31.061	0.00	1.23
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	31.061	0.00	4.68
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	31.399	0.00	1.23

Linear Appurtenance Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

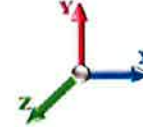


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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	31.399	0.00	4.68
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	31.723	0.00	1.23
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	31.723	0.00	4.68
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	32.035	0.00	1.23
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	32.035	0.00	4.68
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	32.336	0.00	1.23
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	32.336	0.00	4.68
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	32.627	0.00	1.23
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.011	0.000	32.627	0.00	4.68
123.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.011	0.000	32.811	0.00	0.80
123.25	Step bolts (ladder)	Yes	3.25	0.000	0.00	0.00	0.00	0.011	0.000	32.811	0.00	3.04
125.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.011	0.000	32.909	0.00	0.43
125.00	Step bolts (ladder)	Yes	1.75	0.000	0.00	0.00	0.00	0.011	0.000	32.909	0.00	1.64
127.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	33.046	0.00	0.61
127.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	33.046	0.00	2.34
130.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	33.182	0.00	0.61
130.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	33.182	0.00	2.34
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	33.446	0.00	1.23
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	33.446	0.00	4.68
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	33.703	0.00	1.23
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	33.703	0.00	4.68
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	33.953	0.00	1.23
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.013	0.000	33.953	0.00	4.68
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.013	0.000	34.051	0.00	0.49
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.013	0.000	34.051	0.00	1.87
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.013	0.000	34.196	0.00	0.74
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.013	0.000	34.196	0.00	2.81
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	34.433	0.00	1.23
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.014	0.000	34.433	0.00	4.68
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.014	0.000	34.526	0.00	0.49
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.014	0.000	34.526	0.00	1.87
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.014	0.000	34.664	0.00	0.74
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.014	0.000	34.664	0.00	2.81
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	34.890	0.00	1.23
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.015	0.000	34.890	0.00	4.68
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.015	0.000	34.978	0.00	0.49
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.015	0.000	34.978	0.00	1.87
168.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.016	0.000	35.022	0.00	0.25
168.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.016	0.000	35.022	0.00	0.94
Totals:											0.0	195.0

Calculated Forces

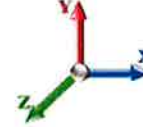
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 18
	Struct Class: II	



Load Case: 0.9D + 1.6W 101 mph Wind

Iterations 25

Dead Load Factor 0.90
Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.79	-31.18	0.00	-3518.0	0.00	3518.08	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.537
5.00	-35.43	-30.67	0.00	-3362.1	0.00	3362.16	5435.34	2717.67	12856.9	6438.04	0.07	-0.138	0.000	0.529
10.00	-34.00	-30.16	0.00	-3208.8	0.00	3208.81	5368.23	2684.11	12453.6	6236.09	0.29	-0.278	0.000	0.521
15.00	-32.59	-29.66	0.00	-3058.0	0.00	3058.00	5299.69	2649.84	12053.2	6035.57	0.66	-0.419	0.000	0.513
20.00	-31.21	-29.13	0.00	-2909.7	0.00	2909.70	5229.71	2614.86	11655.8	5836.57	1.18	-0.562	0.000	0.505
25.00	-29.86	-28.58	0.00	-2764.0	0.00	2764.05	5158.30	2579.15	11261.6	5639.20	1.84	-0.706	0.000	0.496
30.00	-28.53	-28.01	0.00	-2621.1	0.00	2621.18	5085.46	2542.73	10870.9	5443.55	2.66	-0.851	0.000	0.487
35.00	-27.23	-27.42	0.00	-2481.1	0.00	2481.15	5011.18	2505.59	10483.8	5249.72	3.63	-0.998	0.000	0.478
40.00	-25.97	-26.82	0.00	-2344.0	0.00	2344.03	4935.46	2467.73	10100.6	5057.82	4.76	-1.146	0.000	0.469
42.75	-25.28	-26.49	0.00	-2270.2	0.00	2270.29	4893.21	2446.61	9891.54	4953.12	5.44	-1.229	0.000	0.464
45.00	-24.30	-26.22	0.00	-2210.7	0.00	2210.70	4858.32	2429.16	9721.41	4867.93	6.04	-1.297	0.000	0.459
49.00	-22.62	-25.69	0.00	-2105.8	0.00	2105.84	3959.59	1979.80	7922.06	3966.92	7.18	-1.418	0.000	0.537
50.00	-22.38	-25.59	0.00	-2080.1	0.00	2080.15	3948.01	1974.01	7862.92	3937.31	7.48	-1.449	0.000	0.534
55.00	-21.30	-24.98	0.00	-1952.1	0.00	1952.18	3889.26	1944.63	7568.72	3789.99	9.09	-1.617	0.000	0.521
60.00	-20.25	-24.37	0.00	-1827.2	0.00	1827.27	3829.07	1914.54	7277.15	3643.98	10.87	-1.785	0.000	0.507
65.00	-19.22	-23.75	0.00	-1705.4	0.00	1705.43	3767.45	1883.72	6988.40	3499.39	12.83	-1.954	0.000	0.493
70.00	-18.22	-23.14	0.00	-1586.6	0.00	1586.67	3704.39	1852.20	6702.67	3356.32	14.97	-2.123	0.000	0.478
75.00	-17.24	-22.53	0.00	-1470.9	0.00	1470.97	3639.90	1819.95	6420.16	3214.85	17.28	-2.292	0.000	0.462
80.00	-16.29	-21.90	0.00	-1358.3	0.00	1358.34	3573.98	1786.99	6141.06	3075.10	19.77	-2.461	0.000	0.446
82.50	-15.82	-21.60	0.00	-1303.5	0.00	1303.58	3540.48	1770.24	6002.85	3005.89	21.08	-2.546	0.000	0.438
85.00	-15.04	-21.28	0.00	-1249.5	0.00	1249.57	3506.62	1753.31	5865.57	2937.15	22.44	-2.632	0.000	0.430
87.75	-14.20	-20.93	0.00	-1191.0	0.00	1191.04	2761.71	1380.86	4636.01	2321.45	23.98	-2.726	0.000	0.518
90.00	-13.82	-20.67	0.00	-1143.9	0.00	1143.95	2740.07	1370.04	4543.51	2275.13	25.28	-2.803	0.000	0.508
95.00	-13.03	-20.07	0.00	-1040.5	0.00	1040.59	2690.94	1345.47	4339.45	2172.95	28.32	-2.991	0.000	0.484
100.00	-12.27	-19.48	0.00	-940.22	0.00	940.22	2640.38	1320.19	4137.62	2071.89	31.55	-3.177	0.000	0.459
105.00	-11.53	-18.90	0.00	-842.81	0.00	842.81	2588.38	1294.19	3938.22	1972.04	34.98	-3.359	0.000	0.432
110.00	-10.81	-18.32	0.00	-748.33	0.00	748.33	2534.95	1267.48	3741.44	1873.50	38.59	-3.537	0.000	0.404
115.00	-10.11	-17.75	0.00	-656.75	0.00	656.75	2480.09	1240.04	3547.48	1776.38	42.39	-3.709	0.000	0.374
120.00	-9.44	-17.18	0.00	-568.02	0.00	568.02	2423.79	1211.90	3356.53	1680.76	46.36	-3.873	0.000	0.342
123.25	-9.01	-16.81	0.00	-512.19	0.00	512.19	2386.43	1193.21	3234.12	1619.46	49.03	-3.977	0.000	0.320
125.00	-8.64	-16.61	0.00	-482.76	0.00	482.76	2366.06	1183.03	3168.79	1586.75	50.49	-4.031	0.000	0.308
127.50	-8.12	-16.32	0.00	-441.23	0.00	441.23	1766.99	883.49	2371.88	1187.70	52.62	-4.107	0.000	0.376
130.00	-7.84	-16.06	0.00	-400.43	0.00	400.43	1747.69	873.85	2306.16	1154.80	54.79	-4.179	0.000	0.352
135.00	-7.31	-15.52	0.00	-320.16	0.00	320.16	1708.02	854.01	2176.01	1089.62	59.25	-4.333	0.000	0.298
140.00	-6.80	-15.00	0.00	-242.55	0.00	242.55	1666.92	833.46	2047.71	1025.37	63.86	-4.467	0.000	0.241
145.00	-6.32	-14.48	0.00	-167.57	0.00	167.57	1624.39	812.19	1921.45	962.15	68.60	-4.576	0.000	0.178
147.00	-4.51	-10.82	0.00	-138.61	0.00	138.61	1606.97	803.49	1871.57	937.18	70.52	-4.612	0.000	0.151
150.00	-4.27	-10.52	0.00	-106.15	0.00	106.15	1580.42	790.21	1797.44	900.06	73.43	-4.658	0.000	0.121
155.00	-3.88	-10.04	0.00	-53.53	0.00	53.53	1535.02	767.51	1675.88	839.18	78.34	-4.711	0.000	0.066
157.00	-2.05	-3.60	0.00	-33.46	0.00	33.46	1516.46	758.23	1627.98	815.20	80.31	-4.724	0.000	0.042
160.00	-1.87	-3.32	0.00	-22.66	0.00	22.66	1488.18	744.09	1556.95	779.63	83.28	-4.738	0.000	0.030
165.00	-1.57	-2.87	0.00	-6.05	0.00	6.05	1439.00	719.50	1439.93	721.04	88.25	-4.750	0.000	0.010
167.00	-0.08	-0.15	0.00	-0.32	0.00	0.32	1413.06	706.53	1388.23	695.14	90.23	-4.751	0.000	0.001
168.00	0.00	-0.15	0.00	-0.16	0.00	0.16	1400.09	700.04	1362.73	682.38	91.23	-4.751	0.000	0.000

Wind Loading - Shaft

Structure: CT02217-S-SBA
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

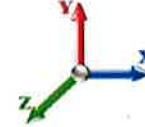
10/20/2016

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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.656	5.00	26.148	31.38	178.4	618.7	2265.9
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.775	5.00	25.782	30.94	175.9	652.2	2268.2
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.848	5.00	25.377	30.45	173.1	667.3	2252.1
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.902	5.00	24.957	29.95	180.6	674.3	2227.9
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.945	5.00	24.527	29.43	186.1	676.6	2199.1
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.981	5.00	24.091	28.91	189.9	675.8	2167.1
35.00		1.00	1.01	6.169	6.79	0.00	1.200	2.012	5.00	23.652	28.38	192.6	672.9	2132.9
40.00		1.00	1.04	6.345	6.98	0.00	1.200	2.039	5.00	23.209	27.85	194.4	668.2	2097.1
42.75	Bot - Section 2	1.00	1.06	6.434	7.08	0.00	1.200	2.052	2.75	12.573	15.09	106.8	365.8	1138.4
45.00		1.00	1.07	6.504	7.15	0.00	1.200	2.063	2.25	10.329	12.39	88.7	302.3	1472.1
49.00	Top - Section 1	1.00	1.09	6.622	7.28	0.00	1.200	2.081	4.00	18.141	21.77	158.6	533.1	2583.8
50.00		1.00	1.09	6.650	7.32	0.00	1.200	2.085	1.00	4.489	5.39	39.4	133.0	369.0
55.00		1.00	1.12	6.785	7.46	0.00	1.200	2.105	5.00	22.185	26.62	198.7	657.0	1821.3
60.00		1.00	1.14	6.910	7.60	0.00	1.200	2.123	5.00	21.734	26.08	198.3	648.4	1785.9
65.00		1.00	1.16	7.028	7.73	0.00	1.200	2.140	5.00	21.283	25.54	197.4	639.0	1749.9
70.00		1.00	1.17	7.138	7.85	0.00	1.200	2.156	5.00	20.831	25.00	196.3	629.1	1713.2
75.00		1.00	1.19	7.243	7.97	0.00	1.200	2.171	5.00	20.378	24.45	194.8	618.7	1676.1
80.00		1.00	1.21	7.342	8.08	0.00	1.200	2.185	5.00	19.924	23.91	193.1	607.9	1638.5
82.50	Bot - Section 3	1.00	1.22	7.390	8.13	0.00	1.200	2.192	2.50	9.790	11.75	95.5	301.1	806.4
85.00		1.00	1.22	7.436	8.18	0.00	1.200	2.198	2.50	9.809	11.77	96.3	302.6	1223.7
87.75	Top - Section 2	1.00	1.23	7.486	8.23	0.00	1.200	2.205	2.75	10.659	12.79	105.3	329.4	1328.4
90.00		1.00	1.24	7.526	8.28	0.00	1.200	2.211	2.25	8.618	10.34	85.6	267.1	637.1
95.00		1.00	1.25	7.612	8.37	0.00	1.200	2.223	5.00	18.824	22.59	189.1	581.6	1387.6
100.00		1.00	1.27	7.695	8.46	0.00	1.200	2.234	5.00	18.368	22.04	186.6	569.4	1353.1
105.00		1.00	1.28	7.774	8.55	0.00	1.200	2.245	5.00	17.912	21.49	183.8	556.8	1318.2
110.00		1.00	1.29	7.851	8.64	0.00	1.200	2.256	5.00	17.455	20.95	180.9	544.0	1283.1
115.00		1.00	1.30	7.925	8.72	0.00	1.200	2.266	5.00	16.998	20.40	177.8	531.0	1247.8
120.00		1.00	1.32	7.996	8.80	0.00	1.200	2.276	5.00	16.540	19.85	174.6	517.7	1212.2
123.25	Bot - Section 4	1.00	1.32	8.041	8.85	0.00	1.200	2.282	3.25	10.505	12.61	111.5	330.8	770.3
125.00		1.00	1.33	8.065	8.87	0.00	1.200	2.285	1.75	5.650	6.78	60.1	179.0	601.1
127.50	Top - Section 3	1.00	1.33	8.099	8.91	0.00	1.200	2.289	2.50	7.974	9.57	85.2	252.3	846.8
130.00		1.00	1.34	8.132	8.95	0.00	1.200	2.294	2.50	7.860	9.43	84.4	248.8	511.2
135.00		1.00	1.35	8.197	9.02	0.00	1.200	2.303	5.00	15.378	18.45	166.4	483.8	995.1
140.00		1.00	1.36	8.260	9.09	0.00	1.200	2.311	5.00	14.919	17.90	162.7	469.7	963.2
145.00		1.00	1.37	8.321	9.15	0.00	1.200	2.319	5.00	14.461	17.35	158.8	455.5	931.2
147.00	Appurtenance(s)	1.00	1.37	8.345	9.18	0.00	1.200	2.322	2.00	5.655	6.79	62.3	179.9	365.2
150.00		1.00	1.38	8.381	9.22	0.00	1.200	2.327	3.00	8.345	10.01	92.3	264.7	537.2
155.00		1.00	1.39	8.439	9.28	0.00	1.200	2.335	5.00	13.543	16.25	150.9	426.6	866.6
157.00	Appurtenance(s)	1.00	1.39	8.462	9.31	0.00	1.200	2.338	2.00	5.288	6.35	59.1	168.3	339.3
160.00		1.00	1.40	8.495	9.34	0.00	1.200	2.342	3.00	7.794	9.35	87.4	247.2	498.3
165.00		1.00	1.41	8.551	9.41	0.00	1.200	2.349	5.00	12.624	15.15	142.5	397.1	801.5
167.00	Appurtenance(s)	1.00	1.41	8.572	9.43	0.00	1.200	2.352	2.00	4.920	5.90	55.7	156.5	313.2
168.00	Appurtenance(s)	1.00	1.41	8.583	9.44	0.00	1.200	2.353	1.00	2.432	2.92	27.6	77.6	154.9
Totals:									168.00			6,025.3		54,851.5

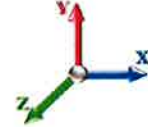
Discrete Appurtenance Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 20
	Struct Class: II	



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	168.00	Lightning Rod	1	8.610	9.471	1.00	1.00	4.25	75.36	0.000	2.500	40.26	0.00	100.64
2	167.00	Low Profile Platform	1	8.572	9.429	1.00	1.00	45.80	3264.05	0.000	0.000	431.90	0.00	0.00
3	167.00	Decibel DB908H90E-M w/	6	8.572	9.429	0.74	1.00	23.72	1148.52	0.000	0.000	223.66	0.00	0.00
4	157.00	Commscope	3	8.462	9.308	0.67	0.80	24.09	696.61	0.000	0.000	224.26	0.00	0.00
5	157.00	Low Profile Platform	1	8.462	9.308	1.00	1.00	45.66	3253.19	0.000	0.000	424.96	0.00	0.00
6	157.00	RFS DB-T1-6Z-8AB-0Z	1	8.462	9.308	1.00	1.00	6.00	257.19	0.000	0.000	55.82	0.00	0.00
7	157.00	ALU RRH2x60-AWS	3	8.462	9.308	0.54	0.80	7.44	506.45	0.000	0.000	69.22	0.00	0.00
8	157.00	ALU RRH2x60-700	3	8.462	9.308	0.54	0.80	5.96	473.06	0.000	0.000	55.48	0.00	0.00
9	157.00	Commscope	6	8.462	9.308	0.62	0.80	46.65	1407.01	0.000	0.000	434.18	0.00	0.00
10	157.00	Amphenol	3	8.462	9.308	0.67	0.80	24.09	974.32	0.000	0.000	224.26	0.00	0.00
11	147.00	Low Profile Platform w/	1	8.345	9.180	1.00	1.00	52.87	4550.03	0.000	0.000	485.30	0.00	0.00
12	147.00	Kathrein 782 11056	3	8.345	9.180	0.54	0.80	1.33	16.43	0.000	0.000	12.19	0.00	0.00
13	147.00	Ericsson KRY 112 144/1	3	8.345	9.180	0.54	0.80	1.70	73.34	0.000	0.000	15.61	0.00	0.00
14	147.00	Allen Telecom	3	8.345	9.180	0.54	0.80	2.14	158.17	0.000	0.000	19.64	0.00	0.00
15	147.00	Commscope	3	8.345	9.180	0.65	0.80	30.71	911.83	0.000	0.000	281.88	0.00	0.00
16	147.00	RFS	3	8.345	9.180	0.59	0.80	10.80	287.05	0.000	0.000	99.15	0.00	0.00
Totals:								18,052.62				3,097.76		

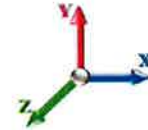
Total Applied Force Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 21
	Struct Class: II	



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 24

Elev (ft)	Description	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		178.38	2360.19	0.00	0.00
10.00		175.88	2509.28	0.00	0.00
15.00		173.12	2496.71	0.00	0.00
20.00		180.64	2475.20	0.00	0.00
25.00		186.07	2448.52	0.00	0.00
30.00		189.92	2418.41	0.00	0.00
35.00		192.60	2385.86	0.00	0.00
40.00		194.38	2351.44	0.00	0.00
42.75		106.78	1278.67	0.00	0.00
45.00		88.68	1587.19	0.00	0.00
49.00		158.57	2789.08	0.00	0.00
50.00		39.41	420.42	0.00	0.00
55.00		198.69	2079.29	0.00	0.00
60.00		198.25	2044.92	0.00	0.00
65.00		197.44	2009.82	0.00	0.00
70.00		196.28	1974.09	0.00	0.00
75.00		194.82	1937.79	0.00	0.00
80.00		193.09	1900.99	0.00	0.00
82.50		95.50	937.87	0.00	0.00
85.00		96.28	1355.30	0.00	0.00
87.75		105.33	1473.41	0.00	0.00
90.00		85.62	755.85	0.00	0.00
95.00		189.15	1652.27	0.00	0.00
100.00		186.57	1618.41	0.00	0.00
105.00		183.81	1584.23	0.00	0.00
110.00		180.89	1549.75	0.00	0.00
115.00		177.81	1515.01	0.00	0.00
120.00		174.58	1480.02	0.00	0.00
123.25		111.50	944.61	0.00	0.00
125.00		60.15	695.05	0.00	0.00
127.50		85.25	981.13	0.00	0.00
130.00		84.37	645.59	0.00	0.00
135.00		166.39	1264.47	0.00	0.00
140.00		162.67	1233.11	0.00	0.00
145.00		158.83	1201.56	0.00	0.00
147.00	(16) attachments	976.06	6470.28	0.00	0.00
150.00		92.32	654.83	0.00	0.00
155.00		150.85	1063.05	0.00	0.00
157.00	(20) attachments	1547.23	7985.79	0.00	0.00
160.00		87.40	571.32	0.00	0.00
165.00		142.48	923.56	0.00	0.00
167.00	(7) attachments	711.23	4774.68	0.00	0.00
168.00	(1) attachments	67.82	247.28	0.00	100.64
Totals:		9,123.07	81,046.31	0.00	100.64

Linear Appurtenance Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

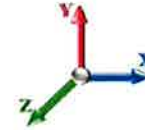


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 24

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	2.00	0.000	0.38	0.62	0.00	0.003	0.000	5.168	0.00	8.35
5.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.003	0.000	5.168	0.00	10.87
10.00	Safety Cable	Yes	5.00	0.000	0.38	1.64	0.00	0.007	0.000	5.168	0.00	23.53
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.168	0.00	29.96
15.00	Safety Cable	Yes	5.00	0.000	0.38	1.70	0.00	0.007	0.000	5.168	0.00	25.26
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.168	0.00	31.77
20.00	Safety Cable	Yes	5.00	0.000	0.38	1.74	0.00	0.007	0.000	5.483	0.00	26.58
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.483	0.00	33.13
25.00	Safety Cable	Yes	5.00	0.000	0.38	1.78	0.00	0.007	0.000	5.747	0.00	27.65
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.747	0.00	34.25
30.00	Safety Cable	Yes	5.00	0.000	0.38	1.81	0.00	0.007	0.000	5.972	0.00	28.56
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	5.972	0.00	35.19
35.00	Safety Cable	Yes	5.00	0.000	0.38	1.83	0.00	0.007	0.000	6.169	0.00	29.35
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	6.169	0.00	36.02
40.00	Safety Cable	Yes	5.00	0.000	0.38	1.86	0.00	0.007	0.000	6.345	0.00	30.06
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	6.345	0.00	36.75
42.75	Safety Cable	Yes	2.75	0.000	0.38	1.03	0.00	0.007	0.000	6.434	0.00	16.73
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.007	0.000	6.434	0.00	20.42
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.84	0.00	0.008	0.000	6.504	0.00	13.82
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.008	0.000	6.504	0.00	16.84
49.00	Safety Cable	Yes	4.00	0.000	0.38	1.51	0.00	0.008	0.000	6.622	0.00	24.94
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.008	0.000	6.622	0.00	30.32
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.38	0.00	0.008	0.000	6.650	0.00	6.26
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.008	0.000	6.650	0.00	7.60
55.00	Safety Cable	Yes	5.00	0.000	0.38	1.91	0.00	0.008	0.000	6.785	0.00	31.83
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	6.785	0.00	38.58
60.00	Safety Cable	Yes	5.00	0.000	0.38	1.93	0.00	0.008	0.000	6.910	0.00	32.33
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	6.910	0.00	39.10
65.00	Safety Cable	Yes	5.00	0.000	0.38	1.94	0.00	0.008	0.000	7.028	0.00	32.80
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	7.028	0.00	39.59
70.00	Safety Cable	Yes	5.00	0.000	0.38	1.96	0.00	0.008	0.000	7.138	0.00	33.24
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	7.138	0.00	40.04
75.00	Safety Cable	Yes	5.00	0.000	0.38	1.97	0.00	0.009	0.000	7.243	0.00	33.66
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	7.243	0.00	40.47
80.00	Safety Cable	Yes	5.00	0.000	0.38	1.98	0.00	0.009	0.000	7.342	0.00	34.05
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	7.342	0.00	40.88
82.50	Safety Cable	Yes	2.50	0.000	0.38	0.99	0.00	0.009	0.000	7.390	0.00	17.12
82.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	7.390	0.00	20.54
85.00	Safety Cable	Yes	2.50	0.000	0.38	1.00	0.00	0.009	0.000	7.436	0.00	17.21
85.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	7.436	0.00	20.64
87.75	Safety Cable	Yes	2.75	0.000	0.38	1.10	0.00	0.009	0.000	7.486	0.00	19.04
87.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.009	0.000	7.486	0.00	22.81
90.00	Safety Cable	Yes	2.25	0.000	0.38	0.90	0.00	0.009	0.000	7.526	0.00	15.65
90.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.009	0.000	7.526	0.00	18.74
95.00	Safety Cable	Yes	5.00	0.000	0.38	2.01	0.00	0.009	0.000	7.612	0.00	35.13
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	7.612	0.00	42.00
100.00	Safety Cable	Yes	5.00	0.000	0.38	2.02	0.00	0.010	0.000	7.695	0.00	35.46

Linear Appurtenance Segment Forces (Factored)

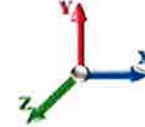
Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 23
	Struct Class: II	



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	7.695	0.00	42.33
105.00	Safety Cable	Yes	5.00	0.000	0.38	2.03	0.00	0.010	0.000	7.774	0.00	35.77
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	7.774	0.00	42.66
110.00	Safety Cable	Yes	5.00	0.000	0.38	2.04	0.00	0.010	0.000	7.851	0.00	36.07
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	7.851	0.00	42.97
115.00	Safety Cable	Yes	5.00	0.000	0.38	2.05	0.00	0.010	0.000	7.925	0.00	36.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	7.925	0.00	43.28
120.00	Safety Cable	Yes	5.00	0.000	0.38	2.05	0.00	0.011	0.000	7.996	0.00	36.65
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.011	0.000	7.996	0.00	43.57
123.25	Safety Cable	Yes	3.25	0.000	0.38	1.34	0.00	0.011	0.000	8.041	0.00	23.94
123.25	Step bolts (ladder)	Yes	3.25	0.000	0.00	0.00	0.00	0.011	0.000	8.041	0.00	28.44
125.00	Safety Cable	Yes	1.75	0.000	0.38	0.72	0.00	0.011	0.000	8.065	0.00	12.92
125.00	Step bolts (ladder)	Yes	1.75	0.000	0.00	0.00	0.00	0.011	0.000	8.065	0.00	15.35
127.50	Safety Cable	Yes	2.50	0.000	0.38	1.03	0.00	0.011	0.000	8.099	0.00	18.53
127.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	8.099	0.00	21.99
130.00	Safety Cable	Yes	2.50	0.000	0.38	1.03	0.00	0.011	0.000	8.132	0.00	18.59
130.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	8.132	0.00	22.06
135.00	Safety Cable	Yes	5.00	0.000	0.38	2.08	0.00	0.012	0.000	8.197	0.00	37.44
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	8.197	0.00	44.39
140.00	Safety Cable	Yes	5.00	0.000	0.38	2.08	0.00	0.012	0.000	8.260	0.00	37.69
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	8.260	0.00	44.64
145.00	Safety Cable	Yes	5.00	0.000	0.38	2.09	0.00	0.013	0.000	8.321	0.00	37.93
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.013	0.000	8.321	0.00	44.89
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.84	0.00	0.013	0.000	8.345	0.00	15.21
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.013	0.000	8.345	0.00	18.00
150.00	Safety Cable	Yes	3.00	0.000	0.38	1.26	0.00	0.013	0.000	8.381	0.00	22.90
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.013	0.000	8.381	0.00	27.08
155.00	Safety Cable	Yes	5.00	0.000	0.38	2.10	0.00	0.014	0.000	8.439	0.00	38.40
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.014	0.000	8.439	0.00	45.37
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.84	0.00	0.014	0.000	8.462	0.00	15.39
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.014	0.000	8.462	0.00	18.19
160.00	Safety Cable	Yes	3.00	0.000	0.38	1.27	0.00	0.014	0.000	8.495	0.00	23.17
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.014	0.000	8.495	0.00	27.36
165.00	Safety Cable	Yes	5.00	0.000	0.38	2.12	0.00	0.015	0.000	8.551	0.00	38.84
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.015	0.000	8.551	0.00	45.83
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.85	0.00	0.015	0.000	8.572	0.00	15.57
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.015	0.000	8.572	0.00	18.37
168.00	Safety Cable	Yes	1.00	0.000	0.38	0.42	0.00	0.016	0.000	8.583	0.00	7.79
168.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.016	0.000	8.583	0.00	9.19
Totals:											0.0	2,440.3

Calculated Forces

Structure: CT02217-S-SBA
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

10/20/2016

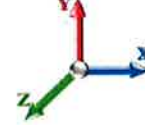
Page: 24



Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-81.04	-9.15	0.00	-1057.6	0.00	1057.60	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.174
5.00	-78.68	-9.03	0.00	-1011.8	0.00	1011.84	5435.34	2717.67	12856.9	6438.04	0.02	-0.042	0.000	0.172
10.00	-76.16	-8.91	0.00	-966.69	0.00	966.69	5368.23	2684.11	12453.6	6236.09	0.09	-0.084	0.000	0.169
15.00	-73.66	-8.79	0.00	-922.15	0.00	922.15	5299.69	2649.84	12053.2	6035.57	0.20	-0.126	0.000	0.167
20.00	-71.18	-8.65	0.00	-878.22	0.00	878.22	5229.71	2614.86	11655.8	5836.57	0.35	-0.169	0.000	0.164
25.00	-68.72	-8.51	0.00	-834.96	0.00	834.96	5158.30	2579.15	11261.6	5639.20	0.56	-0.213	0.000	0.161
30.00	-66.30	-8.36	0.00	-792.41	0.00	792.41	5085.46	2542.73	10870.9	5443.55	0.80	-0.257	0.000	0.159
35.00	-63.91	-8.21	0.00	-750.60	0.00	750.60	5011.18	2505.59	10483.8	5249.72	1.09	-0.301	0.000	0.156
40.00	-61.55	-8.04	0.00	-709.56	0.00	709.56	4935.46	2467.73	10100.6	5057.82	1.43	-0.346	0.000	0.153
42.75	-60.27	-7.95	0.00	-687.46	0.00	687.46	4893.21	2446.61	9891.54	4953.12	1.64	-0.371	0.000	0.151
45.00	-58.68	-7.88	0.00	-669.58	0.00	669.58	4858.32	2429.16	9721.41	4867.93	1.82	-0.392	0.000	0.150
49.00	-55.89	-7.72	0.00	-638.08	0.00	638.08	4959.59	1979.80	7922.06	3966.92	2.16	-0.428	0.000	0.175
50.00	-55.46	-7.71	0.00	-630.36	0.00	630.36	3948.01	1974.01	7862.92	3937.31	2.26	-0.438	0.000	0.174
55.00	-53.38	-7.54	0.00	-591.82	0.00	591.82	3889.26	1944.63	7568.72	3789.99	2.74	-0.488	0.000	0.170
60.00	-51.33	-7.37	0.00	-554.13	0.00	554.13	3829.07	1914.54	7277.15	3643.98	3.28	-0.539	0.000	0.165
65.00	-49.32	-7.20	0.00	-517.29	0.00	517.29	3767.45	1883.72	6988.40	3499.39	3.87	-0.591	0.000	0.161
70.00	-47.34	-7.02	0.00	-481.31	0.00	481.31	3704.39	1852.20	6702.67	3356.32	4.52	-0.642	0.000	0.156
75.00	-45.40	-6.84	0.00	-446.21	0.00	446.21	3639.90	1819.95	6420.16	3214.85	5.22	-0.693	0.000	0.151
80.00	-43.49	-6.66	0.00	-412.00	0.00	412.00	3573.98	1786.99	6141.06	3075.10	5.97	-0.744	0.000	0.146
82.50	-42.55	-6.57	0.00	-395.36	0.00	395.36	3540.48	1770.24	6002.85	3005.89	6.37	-0.770	0.000	0.144
85.00	-41.20	-6.47	0.00	-378.94	0.00	378.94	3506.62	1753.31	5865.57	2937.15	6.78	-0.796	0.000	0.141
87.75	-39.72	-6.36	0.00	-361.15	0.00	361.15	2761.71	1380.86	4636.01	2321.45	7.25	-0.825	0.000	0.170
90.00	-38.96	-6.29	0.00	-346.83	0.00	346.83	2740.07	1370.04	4543.51	2275.13	7.64	-0.848	0.000	0.167
95.00	-37.31	-6.12	0.00	-315.36	0.00	315.36	2690.94	1345.47	4339.45	2172.95	8.56	-0.905	0.000	0.159
100.00	-35.69	-5.94	0.00	-284.78	0.00	284.78	2640.38	1320.19	4137.62	2071.89	9.54	-0.962	0.000	0.151
105.00	-34.10	-5.76	0.00	-255.08	0.00	255.08	2588.38	1294.19	3938.22	1972.04	10.58	-1.017	0.000	0.143
110.00	-32.55	-5.58	0.00	-226.28	0.00	226.28	2534.95	1267.48	3741.44	1873.50	11.67	-1.071	0.000	0.134
115.00	-31.03	-5.40	0.00	-198.38	0.00	198.38	2480.09	1240.04	3547.48	1776.38	12.82	-1.122	0.000	0.124
120.00	-29.55	-5.22	0.00	-171.37	0.00	171.37	2423.79	1211.90	3356.53	1680.76	14.02	-1.172	0.000	0.114
123.25	-28.61	-5.10	0.00	-154.41	0.00	154.41	2386.43	1193.21	3234.12	1619.46	14.83	-1.203	0.000	0.107
125.00	-27.91	-5.03	0.00	-145.49	0.00	145.49	2366.06	1183.03	3168.79	1586.75	15.28	-1.220	0.000	0.104
127.50	-26.93	-4.94	0.00	-132.91	0.00	132.91	1766.99	883.49	2371.88	1187.70	15.92	-1.243	0.000	0.127
130.00	-26.29	-4.86	0.00	-120.56	0.00	120.56	1747.69	873.85	2306.16	1154.80	16.58	-1.264	0.000	0.119
135.00	-25.02	-4.68	0.00	-96.28	0.00	96.28	1708.02	854.01	2176.01	1089.62	17.93	-1.311	0.000	0.103
140.00	-23.79	-4.50	0.00	-72.89	0.00	72.89	1666.92	833.46	2047.71	1025.37	19.32	-1.351	0.000	0.085
145.00	-22.59	-4.32	0.00	-50.37	0.00	50.37	1624.39	812.19	1921.45	962.15	20.76	-1.384	0.000	0.066
147.00	-16.15	-3.20	0.00	-41.72	0.00	41.72	1606.97	803.49	1871.57	937.18	21.34	-1.395	0.000	0.055
150.00	-15.49	-3.09	0.00	-32.14	0.00	32.14	1580.42	790.21	1797.44	900.06	22.22	-1.408	0.000	0.046
155.00	-14.43	-2.92	0.00	-16.68	0.00	16.68	1535.02	767.51	1675.88	839.18	23.70	-1.425	0.000	0.029
157.00	-6.49	-1.17	0.00	-10.85	0.00	10.85	1516.46	758.23	1627.98	815.20	24.30	-1.429	0.000	0.018
160.00	-5.92	-1.07	0.00	-7.33	0.00	7.33	1488.18	744.09	1556.95	779.63	25.20	-1.433	0.000	0.013
165.00	-5.00	-0.90	0.00	-1.98	0.00	1.98	1439.00	719.50	1439.93	721.04	26.70	-1.437	0.000	0.006
167.00	-0.25	-0.07	0.00	-0.17	0.00	0.17	1413.06	706.53	1388.23	695.14	27.31	-1.437	0.000	0.000
168.00	0.00	-0.07	0.00	-0.10	0.00	0.10	1400.09	700.04	1362.73	682.38	27.61	-1.438	0.000	0.000

Wind Loading - Shaft

Structure: CT02217-S-SBA
Site Name: Pomfret School
Height: 168.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G
Exposure: C
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

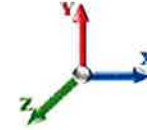
10/20/2016



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	276.59	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	271.44	0.650	0.000	5.00	24.768	16.10	131.8	0.0	1372.7
10.00		1.00	0.85	7.442	8.19	266.29	0.650	0.000	5.00	24.302	15.80	129.3	0.0	1346.7
15.00		1.00	0.85	7.442	8.19	261.14	0.650	0.000	5.00	23.837	15.49	126.8	0.0	1320.7
20.00		1.00	0.90	7.896	8.69	263.69	0.650	0.000	5.00	23.372	15.19	132.0	0.0	1294.7
25.00		1.00	0.95	8.276	9.10	264.53	0.650	0.000	5.00	22.906	14.89	135.5	0.0	1268.7
30.00		1.00	0.98	8.600	9.46	264.12	0.650	0.000	5.00	22.441	14.59	138.0	0.0	1242.7
35.00		1.00	1.01	8.883	9.77	262.81	0.650	0.000	5.00	21.975	14.28	139.6	0.0	1216.7
40.00		1.00	1.04	9.137	10.05	260.83	0.650	0.000	5.00	21.510	13.98	140.5	0.0	1190.7
42.75 Bot - Section 2		1.00	1.06	9.266	10.19	259.50	0.650	0.000	2.75	11.632	7.56	77.1	0.0	643.8
45.00		1.00	1.07	9.366	10.30	258.30	0.650	0.000	2.25	9.555	6.21	64.0	0.0	974.8
49.00 Top - Section 1		1.00	1.09	9.536	10.49	255.97	0.650	0.000	4.00	16.754	10.89	114.2	0.0	1708.9
50.00		1.00	1.09	9.576	10.53	259.33	0.650	0.000	1.00	4.142	2.69	28.4	0.0	196.7
55.00		1.00	1.12	9.770	10.75	256.04	0.650	0.000	5.00	20.431	13.28	142.7	0.0	970.2
60.00		1.00	1.14	9.951	10.95	252.44	0.650	0.000	5.00	19.965	12.98	142.1	0.0	948.0
65.00		1.00	1.16	10.120	11.13	248.57	0.650	0.000	5.00	19.500	12.67	141.1	0.0	925.7
70.00		1.00	1.17	10.279	11.31	244.47	0.650	0.000	5.00	19.034	12.37	139.9	0.0	903.4
75.00		1.00	1.19	10.430	11.47	240.15	0.650	0.000	5.00	18.569	12.07	138.5	0.0	881.1
80.00		1.00	1.21	10.572	11.63	235.65	0.650	0.000	5.00	18.103	11.77	136.8	0.0	858.9
82.50 Bot - Section 3		1.00	1.22	10.641	11.71	233.34	0.650	0.000	2.50	8.877	5.77	67.5	0.0	421.1
85.00		1.00	1.22	10.708	11.78	230.98	0.650	0.000	2.50	8.893	5.78	68.1	0.0	767.6
87.75 Top - Section 2		1.00	1.23	10.780	11.86	228.35	0.650	0.000	2.75	9.648	6.27	74.4	0.0	832.5
90.00		1.00	1.24	10.838	11.92	229.69	0.650	0.000	2.25	7.789	5.06	60.4	0.0	308.3
95.00		1.00	1.25	10.962	12.06	224.75	0.650	0.000	5.00	16.971	11.03	133.0	0.0	671.6
100.00		1.00	1.27	11.081	12.19	219.69	0.650	0.000	5.00	16.506	10.73	130.8	0.0	653.1
105.00		1.00	1.28	11.195	12.31	214.50	0.650	0.000	5.00	16.040	10.43	128.4	0.0	634.5
110.00		1.00	1.29	11.305	12.44	209.21	0.650	0.000	5.00	15.575	10.12	125.9	0.0	615.9
115.00		1.00	1.30	11.412	12.55	203.81	0.650	0.000	5.00	15.109	9.82	123.3	0.0	597.4
120.00		1.00	1.32	11.514	12.67	198.32	0.650	0.000	5.00	14.644	9.52	120.6	0.0	578.8
123.25 Bot - Section 4		1.00	1.32	11.579	12.74	194.70	0.650	0.000	3.25	9.269	6.02	76.7	0.0	366.3
125.00		1.00	1.33	11.614	12.78	192.74	0.650	0.000	1.75	4.984	3.24	41.4	0.0	351.8
127.50 Top - Section 3		1.00	1.33	11.662	12.83	189.92	0.650	0.000	2.50	7.020	4.56	58.5	0.0	495.5
130.00		1.00	1.34	11.710	12.88	190.01	0.650	0.000	2.50	6.904	4.49	57.8	0.0	218.6
135.00		1.00	1.35	11.803	12.98	184.29	0.650	0.000	5.00	13.459	8.75	113.6	0.0	426.1
140.00		1.00	1.36	11.894	13.08	178.48	0.650	0.000	5.00	12.994	8.45	110.5	0.0	411.2
145.00		1.00	1.37	11.982	13.18	172.61	0.650	0.000	5.00	12.528	8.14	107.3	0.0	396.4
147.00 Appurtenance(s)		1.00	1.37	12.017	13.22	170.24	0.650	0.000	2.00	4.881	3.17	41.9	0.0	154.4
150.00		1.00	1.38	12.068	13.27	166.67	0.650	0.000	3.00	7.182	4.67	62.0	0.0	227.1
155.00		1.00	1.39	12.152	13.37	160.66	0.650	0.000	5.00	11.597	7.54	100.8	0.0	366.7
157.00 Appurtenance(s)		1.00	1.39	12.185	13.40	158.24	0.650	0.000	2.00	4.509	2.93	39.3	0.0	142.5
160.00		1.00	1.40	12.233	13.46	154.60	0.650	0.000	3.00	6.623	4.31	57.9	0.0	209.3
165.00		1.00	1.41	12.313	13.54	148.48	0.650	0.000	5.00	10.666	6.93	93.9	0.0	337.0
167.00 Appurtenance(s)		1.00	1.41	12.344	13.58	146.01	0.650	0.000	2.00	4.136	2.69	36.5	0.0	130.6
168.00 Appurtenance(s)		1.00	1.41	12.360	13.60	144.78	0.650	0.000	1.00	2.040	1.33	18.0	0.0	64.4
Totals:									168.00			4,246.7		29,643.8

Discrete Appurtenance Forces

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 26
	Struct Class: II	



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	168.00	Lightning Rod	1	12.398	13.638	1.00	1.00	1.05	35.00	0.000	2.500	14.32	0.00	35.80
2	167.00	Low Profile Platform	1	12.344	13.578	1.00	1.00	22.00	1500.00	0.000	0.000	298.73	0.00	0.00
3	167.00	Decibel DB908H90E-M w/	6	12.344	13.578	0.74	1.00	17.27	252.00	0.000	0.000	234.52	0.00	0.00
4	157.00	Commscope	3	12.185	13.403	0.66	0.80	16.27	116.40	0.000	0.000	218.13	0.00	0.00
5	157.00	Low Profile Platform	1	12.185	13.403	1.00	1.00	22.00	1500.00	0.000	0.000	294.87	0.00	0.00
6	157.00	RFS DB-T1-6Z-8AB-0Z	1	12.185	13.403	1.00	1.00	4.80	44.00	0.000	0.000	64.33	0.00	0.00
7	157.00	ALU RRH2x60-AWS	3	12.185	13.403	0.54	0.80	5.63	180.00	0.000	0.000	75.43	0.00	0.00
8	157.00	ALU RRH2x60-700	3	12.185	13.403	0.54	0.80	3.59	180.00	0.000	0.000	48.06	0.00	0.00
9	157.00	Commscope	6	12.185	13.403	0.62	0.80	31.60	244.80	0.000	0.000	423.55	0.00	0.00
10	157.00	Amphenol	3	12.185	13.403	0.66	0.80	16.27	162.00	0.000	0.000	218.13	0.00	0.00
11	147.00	Low Profile Platform w/	1	12.017	13.219	1.00	1.00	25.00	1800.00	0.000	0.000	330.47	0.00	0.00
12	147.00	Kathrein 782 11056	3	12.017	13.219	0.54	0.80	0.45	5.40	0.000	0.000	5.95	0.00	0.00
13	147.00	Ericsson KRY 112 144/1	3	12.017	13.219	0.54	0.80	0.66	33.00	0.000	0.000	8.71	0.00	0.00
14	147.00	Allen Telecom	3	12.017	13.219	0.54	0.80	0.87	52.50	0.000	0.000	11.48	0.00	0.00
15	147.00	Commscope	3	12.017	13.219	0.64	0.80	22.02	150.90	0.000	0.000	291.11	0.00	0.00
16	147.00	RFS	3	12.017	13.219	0.58	0.80	6.32	56.10	0.000	0.000	83.60	0.00	0.00
Totals:								6,312.10				2,621.39		

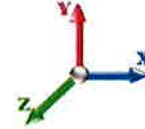
Total Applied Force Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 27
	Struct Class: II	



Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 23

Elev (ft)	Description	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		131.79	1437.82	0.00	0.00
10.00		129.31	1509.55	0.00	0.00
15.00		126.84	1483.56	0.00	0.00
20.00		131.95	1457.57	0.00	0.00
25.00		135.54	1431.57	0.00	0.00
30.00		137.98	1405.58	0.00	0.00
35.00		139.58	1379.59	0.00	0.00
40.00		140.52	1353.60	0.00	0.00
42.75		77.06	733.40	0.00	0.00
45.00		63.99	1048.11	0.00	0.00
49.00		114.23	1839.18	0.00	0.00
50.00		28.36	229.30	0.00	0.00
55.00		142.72	1133.11	0.00	0.00
60.00		142.05	1110.84	0.00	0.00
65.00		141.10	1088.56	0.00	0.00
70.00		139.89	1066.28	0.00	0.00
75.00		138.47	1044.00	0.00	0.00
80.00		136.85	1021.72	0.00	0.00
82.50		67.54	502.51	0.00	0.00
85.00		68.09	848.99	0.00	0.00
87.75		74.36	922.10	0.00	0.00
90.00		60.36	381.58	0.00	0.00
95.00		133.01	834.49	0.00	0.00
100.00		130.77	815.92	0.00	0.00
105.00		128.40	797.36	0.00	0.00
110.00		125.90	778.79	0.00	0.00
115.00		123.28	760.23	0.00	0.00
120.00		120.56	741.66	0.00	0.00
123.25		76.74	472.12	0.00	0.00
125.00		41.38	408.81	0.00	0.00
127.50		58.54	576.91	0.00	0.00
130.00		57.81	300.04	0.00	0.00
135.00		113.59	588.94	0.00	0.00
140.00		110.50	574.09	0.00	0.00
145.00		107.33	559.24	0.00	0.00
147.00	(16) attachments	773.26	2317.44	0.00	0.00
150.00		61.97	287.41	0.00	0.00
155.00		100.76	467.13	0.00	0.00
157.00	(20) attachments	1381.78	2609.89	0.00	0.00
160.00		57.93	231.97	0.00	0.00
165.00		93.90	374.73	0.00	0.00
167.00	(7) attachments	569.75	1897.73	0.00	0.00
168.00	(1) attachments	32.35	100.74	0.00	35.80
	Totals:	6,868.08	40,924.14	0.00	35.80

Linear Appurtenance Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 28

Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00

Iterations 23



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.003	0.000	7.442	0.00	0.55
5.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.003	0.000	7.442	0.00	2.08
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	7.442	0.00	1.37
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	7.442	0.00	5.20
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	7.442	0.00	1.37
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	7.442	0.00	5.20
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	7.896	0.00	1.37
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	7.896	0.00	5.20
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	8.276	0.00	1.37
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	8.276	0.00	5.20
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	8.600	0.00	1.37
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	8.600	0.00	5.20
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	8.883	0.00	1.37
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	8.883	0.00	5.20
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.007	0.000	9.137	0.00	1.37
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.007	0.000	9.137	0.00	5.20
42.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.007	0.000	9.266	0.00	0.75
42.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.007	0.000	9.266	0.00	2.86
45.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.008	0.000	9.366	0.00	0.61
45.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.008	0.000	9.366	0.00	2.34
49.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.008	0.000	9.536	0.00	1.09
49.00	Step bolts (ladder)	Yes	4.00	0.000	0.00	0.00	0.00	0.008	0.000	9.536	0.00	4.16
50.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.008	0.000	9.576	0.00	0.27
50.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.008	0.000	9.576	0.00	1.04
55.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	9.770	0.00	1.37
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	9.770	0.00	5.20
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	9.951	0.00	1.37
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	9.951	0.00	5.20
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	10.120	0.00	1.37
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	10.120	0.00	5.20
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.008	0.000	10.279	0.00	1.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.008	0.000	10.279	0.00	5.20
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	10.430	0.00	1.37
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	10.430	0.00	5.20
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	10.572	0.00	1.37
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	10.572	0.00	5.20
82.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	10.641	0.00	0.68
82.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	10.641	0.00	2.60
85.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.009	0.000	10.708	0.00	0.68
85.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.009	0.000	10.708	0.00	2.60
87.75	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.009	0.000	10.780	0.00	0.75
87.75	Step bolts (ladder)	Yes	2.75	0.000	0.00	0.00	0.00	0.009	0.000	10.780	0.00	2.86
90.00	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.009	0.000	10.838	0.00	0.61
90.00	Step bolts (ladder)	Yes	2.25	0.000	0.00	0.00	0.00	0.009	0.000	10.838	0.00	2.34
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.009	0.000	10.962	0.00	1.37
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.009	0.000	10.962	0.00	5.20
100.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.081	0.00	1.37

Linear Appurtenance Segment Forces (Factored)

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 29
	Struct Class: II	

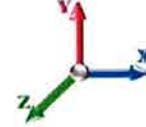


Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	11.081	0.00	5.20
105.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.195	0.00	1.37
105.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	11.195	0.00	5.20
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.305	0.00	1.37
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	11.305	0.00	5.20
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.010	0.000	11.412	0.00	1.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.010	0.000	11.412	0.00	5.20
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.011	0.000	11.514	0.00	1.37
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.011	0.000	11.514	0.00	5.20
123.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.011	0.000	11.579	0.00	0.89
123.25	Step bolts (ladder)	Yes	3.25	0.000	0.00	0.00	0.00	0.011	0.000	11.579	0.00	3.38
125.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.011	0.000	11.614	0.00	0.48
125.00	Step bolts (ladder)	Yes	1.75	0.000	0.00	0.00	0.00	0.011	0.000	11.614	0.00	1.82
127.50	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	11.662	0.00	0.68
127.50	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	11.662	0.00	2.60
130.00	Safety Cable	Yes	2.50	0.000	0.38	0.08	0.00	0.011	0.000	11.710	0.00	0.68
130.00	Step bolts (ladder)	Yes	2.50	0.000	0.00	0.00	0.00	0.011	0.000	11.710	0.00	2.60
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	11.803	0.00	1.37
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	11.803	0.00	5.20
140.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.012	0.000	11.894	0.00	1.37
140.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.012	0.000	11.894	0.00	5.20
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.013	0.000	11.982	0.00	1.37
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.013	0.000	11.982	0.00	5.20
147.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.013	0.000	12.017	0.00	0.55
147.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.013	0.000	12.017	0.00	2.08
150.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.013	0.000	12.068	0.00	0.82
150.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.013	0.000	12.068	0.00	3.12
155.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.014	0.000	12.152	0.00	1.37
155.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.014	0.000	12.152	0.00	5.20
157.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.014	0.000	12.185	0.00	0.55
157.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.014	0.000	12.185	0.00	2.08
160.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.014	0.000	12.233	0.00	0.82
160.00	Step bolts (ladder)	Yes	3.00	0.000	0.00	0.00	0.00	0.014	0.000	12.233	0.00	3.12
165.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.015	0.000	12.313	0.00	1.37
165.00	Step bolts (ladder)	Yes	5.00	0.000	0.00	0.00	0.00	0.015	0.000	12.313	0.00	5.20
167.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.015	0.000	12.344	0.00	0.55
167.00	Step bolts (ladder)	Yes	2.00	0.000	0.00	0.00	0.00	0.015	0.000	12.344	0.00	2.08
168.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.016	0.000	12.360	0.00	0.27
168.00	Step bolts (ladder)	Yes	1.00	0.000	0.00	0.00	0.00	0.016	0.000	12.360	0.00	1.04
Totals:											0.0	216.6

Calculated Forces

Structure: CT02217-S-SBA

Site Name: Pomfret School

Height: 168.00 (ft)

Base Elev: 0.000 (ft)

Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G

Exposure: C

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: II

10/20/2016

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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 23

Dead Load Factor 1.00

Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-40.92	-6.88	0.00	-778.92	0.00	778.92	5501.01	2750.51	13262.9	6641.33	0.00	0.000	0.000	0.125
5.00	-39.48	-6.77	0.00	-744.53	0.00	744.53	5435.34	2717.67	12856.9	6438.04	0.02	-0.031	0.000	0.123
10.00	-37.97	-6.66	0.00	-710.69	0.00	710.69	5368.23	2684.11	12453.6	6236.09	0.07	-0.062	0.000	0.121
15.00	-36.48	-6.55	0.00	-677.41	0.00	677.41	5299.69	2649.84	12053.2	6035.57	0.15	-0.093	0.000	0.119
20.00	-35.02	-6.43	0.00	-644.66	0.00	644.66	5229.71	2614.86	11655.8	5836.57	0.26	-0.124	0.000	0.117
25.00	-33.59	-6.31	0.00	-612.50	0.00	612.50	5158.30	2579.15	11261.6	5639.20	0.41	-0.156	0.000	0.115
30.00	-32.18	-6.19	0.00	-580.94	0.00	580.94	5085.46	2542.73	10870.9	5443.55	0.59	-0.189	0.000	0.113
35.00	-30.79	-6.06	0.00	-549.99	0.00	549.99	5011.18	2505.59	10483.8	5249.72	0.80	-0.221	0.000	0.111
40.00	-29.44	-5.93	0.00	-519.68	0.00	519.68	4935.46	2467.73	10100.6	5057.82	1.05	-0.254	0.000	0.109
42.75	-28.70	-5.86	0.00	-503.38	0.00	503.38	4893.21	2446.61	9891.54	4953.12	1.21	-0.272	0.000	0.108
45.00	-27.65	-5.80	0.00	-490.20	0.00	490.20	4858.32	2429.16	9721.41	4867.93	1.34	-0.287	0.000	0.106
49.00	-25.81	-5.68	0.00	-467.01	0.00	467.01	3959.59	1979.80	7922.06	3966.92	1.59	-0.314	0.000	0.124
50.00	-25.58	-5.66	0.00	-461.33	0.00	461.33	3948.01	1974.01	7862.92	3937.31	1.66	-0.321	0.000	0.124
55.00	-24.45	-5.53	0.00	-433.02	0.00	433.02	3889.26	1944.63	7568.72	3789.99	2.01	-0.358	0.000	0.121
60.00	-23.33	-5.39	0.00	-405.38	0.00	405.38	3829.07	1914.54	7277.15	3643.98	2.41	-0.396	0.000	0.117
65.00	-22.24	-5.26	0.00	-378.41	0.00	378.41	3767.45	1883.72	6988.40	3499.39	2.84	-0.433	0.000	0.114
70.00	-21.17	-5.13	0.00	-352.11	0.00	352.11	3704.39	1852.20	6702.67	3356.32	3.32	-0.471	0.000	0.111
75.00	-20.13	-4.99	0.00	-326.49	0.00	326.49	3639.90	1819.95	6420.16	3214.85	3.83	-0.508	0.000	0.107
80.00	-19.10	-4.85	0.00	-301.53	0.00	301.53	3573.98	1786.99	6141.06	3075.10	4.38	-0.546	0.000	0.103
82.50	-18.60	-4.79	0.00	-289.40	0.00	289.40	3540.48	1770.24	6002.85	3005.89	4.67	-0.565	0.000	0.102
85.00	-17.75	-4.72	0.00	-277.43	0.00	277.43	3506.62	1753.31	5865.57	2937.15	4.97	-0.584	0.000	0.100
87.75	-16.83	-4.64	0.00	-264.45	0.00	264.45	2761.71	1380.86	4636.01	2321.45	5.32	-0.604	0.000	0.120
90.00	-16.45	-4.58	0.00	-254.01	0.00	254.01	2740.07	1370.04	4543.51	2275.13	5.61	-0.621	0.000	0.118
95.00	-15.61	-4.45	0.00	-231.10	0.00	231.10	2690.94	1345.47	4339.45	2172.95	6.28	-0.663	0.000	0.112
100.00	-14.79	-4.32	0.00	-208.84	0.00	208.84	2640.38	1320.19	4137.62	2071.89	7.00	-0.705	0.000	0.106
105.00	-13.99	-4.19	0.00	-187.23	0.00	187.23	2588.38	1294.19	3938.22	1972.04	7.76	-0.745	0.000	0.100
110.00	-13.21	-4.07	0.00	-166.26	0.00	166.26	2534.95	1267.48	3741.44	1873.50	8.56	-0.785	0.000	0.094
115.00	-12.45	-3.94	0.00	-145.92	0.00	145.92	2480.09	1240.04	3547.48	1776.38	9.40	-0.823	0.000	0.087
120.00	-11.71	-3.82	0.00	-126.22	0.00	126.22	2423.79	1211.90	3356.53	1680.76	10.28	-0.859	0.000	0.080
123.25	-11.24	-3.73	0.00	-113.82	0.00	113.82	2386.43	1193.21	3234.12	1619.46	10.87	-0.882	0.000	0.075
125.00	-10.83	-3.69	0.00	-107.29	0.00	107.29	2366.06	1183.03	3168.79	1586.75	11.20	-0.894	0.000	0.072
127.50	-10.25	-3.63	0.00	-98.06	0.00	98.06	1766.99	883.49	2371.88	1187.70	11.67	-0.911	0.000	0.088
130.00	-9.95	-3.57	0.00	-89.00	0.00	89.00	1747.69	873.85	2306.16	1154.80	12.16	-0.927	0.000	0.083
135.00	-9.36	-3.45	0.00	-71.16	0.00	71.16	1708.02	854.01	2176.01	1089.62	13.15	-0.962	0.000	0.071
140.00	-8.79	-3.33	0.00	-53.92	0.00	53.92	1666.92	833.46	2047.71	1025.37	14.17	-0.991	0.000	0.058
145.00	-8.23	-3.22	0.00	-37.25	0.00	37.25	1624.39	812.19	1921.45	962.15	15.22	-1.016	0.000	0.044
147.00	-5.93	-2.40	0.00	-30.82	0.00	30.82	1606.97	803.49	1871.57	937.18	15.65	-1.024	0.000	0.037
150.00	-5.64	-2.34	0.00	-23.60	0.00	23.60	1580.42	790.21	1797.44	900.06	16.30	-1.034	0.000	0.030
155.00	-5.18	-2.23	0.00	-11.91	0.00	11.91	1535.02	767.51	1675.88	839.18	17.38	-1.046	0.000	0.018
157.00	-2.59	-0.80	0.00	-7.45	0.00	7.45	1516.46	758.23	1627.98	815.20	17.82	-1.048	0.000	0.011
160.00	-2.36	-0.74	0.00	-5.04	0.00	5.04	1488.18	744.09	1556.95	779.63	18.48	-1.051	0.000	0.008
165.00	-1.99	-0.64	0.00	-1.35	0.00	1.35	1439.00	719.50	1439.93	721.04	19.59	-1.054	0.000	0.003
167.00	-0.10	-0.03	0.00	-0.07	0.00	0.07	1413.06	706.53	1388.23	695.14	20.03	-1.054	0.000	0.000
168.00	0.00	-0.03	0.00	-0.04	0.00	0.04	1400.09	700.04	1362.73	682.38	20.25	-1.054	0.000	0.000

Final Analysis Summary

Structure: CT02217-S-SBA	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 31
	Struct Class: II	



Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 101 mph Wind	31.2	0.00	49.07	0.00	0.00	3550.36
0.9D + 1.6W 101 mph Wind	31.2	0.00	36.79	0.00	0.00	3518.08
1.2D + 1.0Di + 1.0Wi 50 mph Wind	9.2	0.00	81.04	0.00	0.00	1057.60
1.0D + 1.0W 60 mph Wind	6.9	0.00	40.92	0.00	0.00	778.92

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 101 mph Wind	-30.37	-25.89	0.00	-2132.1	0.00	-2132.1	3959.59	1979.8	7922.06	3966.92	49.00	0.545
0.9D + 1.6W 101 mph Wind	-22.62	-25.69	0.00	-2105.8	0.00	-2105.8	3959.59	1979.8	7922.06	3966.92	49.00	0.537
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-55.89	-7.72	0.00	-638.08	0.00	-638.08	3959.59	1979.8	7922.06	3966.92	49.00	0.175
1.0D + 1.0W 60 mph Wind	-40.92	-6.88	0.00	-778.92	0.00	-778.92	5501.01	2750.5	13262.9	6641.33	0.00	0.125

Base Plate Summary

Structure: CT02217-S-SB	Code: EIA/TIA-222-G	10/20/2016
Site Name: Pomfret School	Exposure: C	
Height: 168.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Reactions	Base Plate	Anchor Bolts
Original Design	Yield (ksi): 50.00	Bolt Circle: 66.00
Moment (kip-ft): 4750.00	Width (in): 65.00	Number Bolts: 20.00
Axial (kip): 38.00	Style: Clipped	Bolt Type: 2.25" 18J
Shear (kip): 37.50	Polygon Sides: 0.00	Bolt Diameter (in): 2.25
Analysis	Clip Length (in): 13.00	Yield (ksi): 75.00
Moment (kip-ft): 3550.36	Effective Len (in): 9.15	Ultimate (ksi): 100.00
Axial (kip): 81.04	Moment (kip-in): 460.05	Arrangement: Clustered
Shear (kip): 31.20	Allow Stress (ksi): 67.50	Cluster Dist (in): 6.00
Moment Design %: 74.74	Applied Stress (ksi): 0.00	Start Angle (deg): 45.00
	Stress Ratio: 0.50	Compression
		Force (kip): 133.16
		Allowable (kip): 260.00
		Ratio: 0.52
		Tension
		Force (kip): 125.05
		Allowable (kip): 260.00
		Ratio: 0.49



Monopole Mat Foundation Design			Date
			Customer Name: Verizon
Site Name:		EIA/TIA Standard:	EIA-222-G
Site Number: CT02217-S-SBA		Structure Height (Ft.):	168
Engr. Number: 27027		Engineer Name:	D. Zhou
		Engineer Login ID:	TES

Foundation Info Obtained from:

Mapping Operation
Monopole
Analysis

Structure Type:

Analysis or Design?

Base Reactions (Factored):

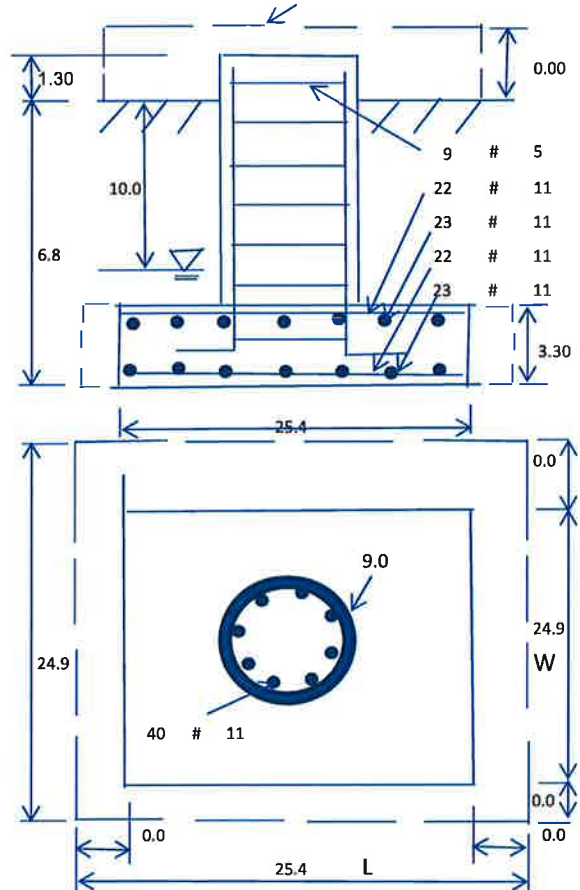
Axial Load (Kips):	81.0	Shear Force (Kips):	31.2
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3550.4

Foundation Geometries:

Diameter of Pier (ft.):	9.0	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	1.30	Depth of Base BG (ft.):	6.8
Length of Pad (ft.):	25.4	Thickness of Pad (ft.):	3.30
		Width of Pad (ft.):	24.9
Final Length of pad (ft)	25.4	Final width of pad (ft):	24.9
Control Value for Cell D18:	0	Control Value for Cell F18:	0

Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	40	Tie Spacing (in):	12.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	11	
Concrete Cover (in.):	5	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	22	Qty. of Rebar in Pad (W):	23	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	22	Qty. of Rebar in Pad (W):	23	



Soil Design Parameters:

Soil Unit Weight (pcf):	120.0	Soil Buoyant Weight:	57.6	Pcf
Water Table B.G.S. (ft):	10.0	Unit Weight of Water:	62.4	pcf
Ultimate Bearing Pressure (psf):	15000	Ultimate Skin Friction:	0	Psf
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No	
Consider soil hori. force for O.T.M.:	Yes	Reduction factor on the maximum soil bearing pressure:	1.00	
		Angle from Top of Pad:	30	
		Angle from Bottm of Pad:	25	
		Angle from Bottm of Pad:	25	

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	1990.95	Total Dry Soil Weight (Kips):	238.91
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	238.91	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	2392.48	Total Dry Concrete Weight (Kips):	358.87
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	358.87	Total Vertical Load on Base (Kips):	678.79

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	2676	<	Allowable Factored Soil Bearing (psf):	11250	0.24	OKI
Allowable Foundation Overturning Resistance (kips-ft.):	7706.6	>	Design Factored Momont (kips-ft):	3725	0.48	OKI
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	2.07					OKI

Load/
Capacity
Ratio

Check the capacities of Reinforcing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00

Load/
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	1.56	Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	13515.4	>	Design Factored Moment (Mu, Kips-Ft)	3700.2	0.27 OK!
Calculated Shear Capacity (Kips):	1136.9	>	Design Factored Shear (Kips):	31.2	0.03 OK!
Calculated Tension Capacity (Tn, Kips):	3369.6	>	Design Factored Tension (Tu Kips):	0.0	0.00 OK!
Calculated Compression Capacity (Pn, Kips):	16086.1	>	Design Factored Axial Load (Pu Kips):	81.0	0.01 OK!
Moment & Axial Strength Combination:	0.27	OK!	Check Tie Spacing (Design/Required):		1 OK!
Pier Reinforcement Ratio:	0.007	Reinforcement Ratio Is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	980.6	>	One-Way Factored Shear (L-D. Kips):	219.1	0.22 OK!
One-Way Design Shear Capacity (W-Direction, Kips):	961.3	>	One-Way Factored Shear (W-D., Kips):	208.9	0.22 OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	1025.8	>	One-Way Factored Shear (C-C, Kips):	372.9	0.36 OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0035	OK!	Lower Steel Pad Reinf. Ratio (W-Direct	0.0033	
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	5080.9	>	Moment at Bottom (L-Direct. K-Ft):	588.7	0.12 OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	5307.8	>	Moment at Bottom (W-Direct. K-Ft):	535.2	0.10 OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	7268.3	>	Moment at Bottom (C-C Dir. K-Ft):	795.6	0.11 OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0034	OK!	Upper Steel Reinf. Ratio (W-Direct.):	0.0035	
Upper Steel Pad Moment Capacity (L-Direction. Kips-ft):	5080.9	>	Moment at the top (L-Dir Kips-Ft):	174.7	0.03 OK!
Upper Steel Pad Moment Capacity (W-Direction. Kips-ft):	5307.8	>	Moment at the top (W-Dir Kips-Ft):	182.2	0.03 OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	7268.3	>	Moment at the top (C-C Direc. K-Ft):	350.1	0.05 OK!

ATTACHMENT 4

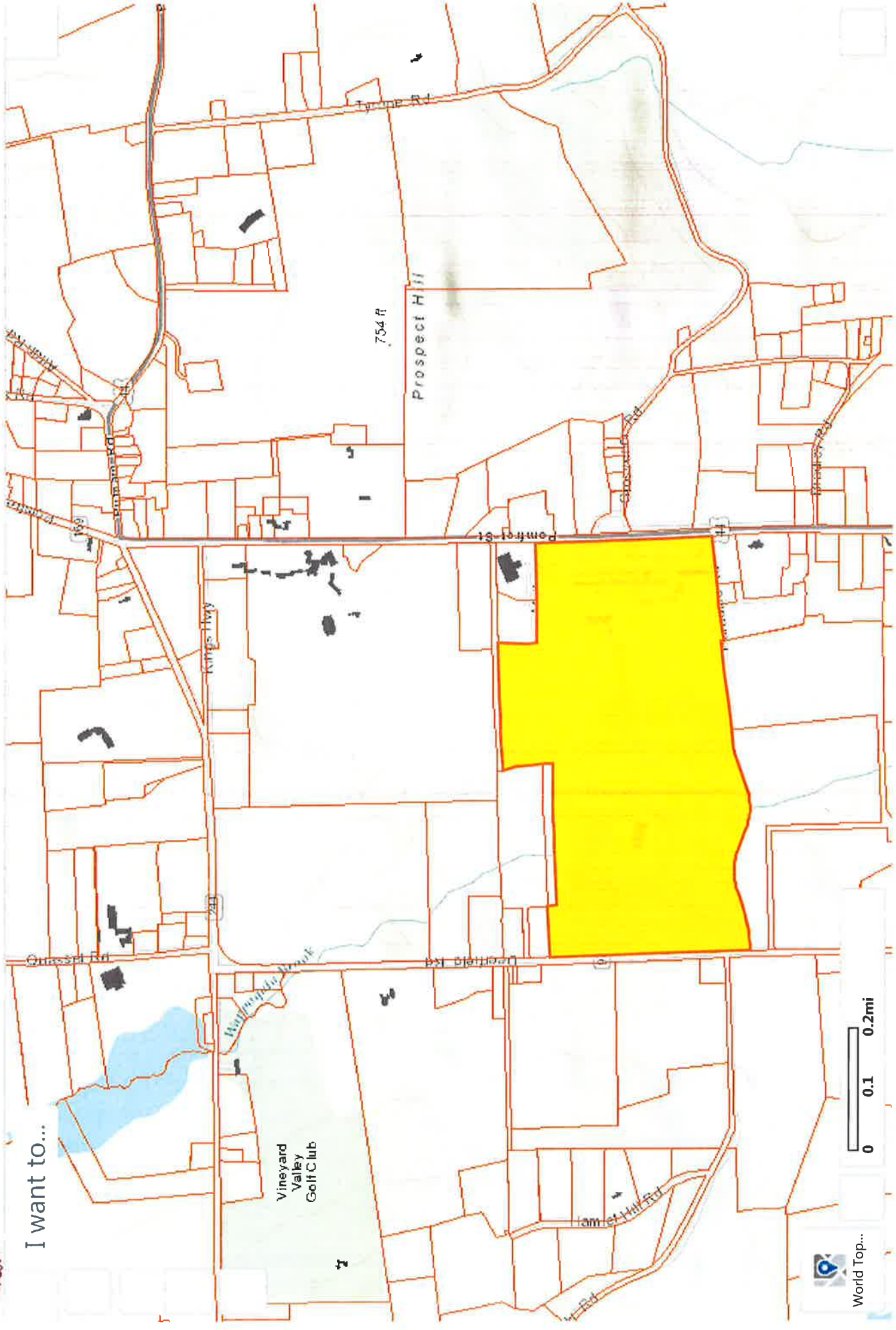


necog

ashford brooklyn canterbury chaplin eastford hampton killing
pomfret putnam scotland sterling thompson union voluntown

Search...

I want to...



World Top...



Parcel Information:

Report Generated: 11/14/2016 10:50:30 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128 POMFRET CT 062580128
Land:	141.24	Buildings:	
Appraised	Land Value: \$1,291,500.00	Improvement Value: \$32,383,900.00	Total Value: \$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1870	Primary Structure Area:	7,591.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:31 AM

GIS ID: CT-112-14-A-008.00 **Assessment:** \$23,573,100.00

Owner Name: POMFRET SCHOOL INC **Appraisal:** \$33,675,400.00

Street Address: 398 POMFRET ST **Mailing Address:** PO BOX 128

POMFRET **CT** **062580128**

Land: 141.24 **Buildings:**

	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 1900 **Primary Structure Area:** 2,245.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:32 AM

GIS ID: CT-112-14-A-008.00

Assessment: \$23,573,100.00

Owner Name: POMFRET SCHOOL INC

Appraisal: \$33,675,400.00

Street Address: 398 POMFRET ST

Mailing Address: PO BOX 128

POMFRET CT 062580128

Land: 141.24

Buildings:

Land Value:

Improvement Value:

Total Value:

Appraised \$1,291,500.00

\$32,383,900.00

\$33,675,400.00

Assessed

\$22,669,000.00

\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 1900 **Primary Structure Area:** 2,352.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:33 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1900	Primary Structure Area:	13,853.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:33 AM

GIS ID: CT-112-14-A-008.00

Assessment: \$23,573,100.00

Owner Name: POMFRET SCHOOL INC

Appraisal: \$33,675,400.00

Street Address: 398 POMFRET ST

Mailing Address: PO BOX 128

POMFRET CT 062580128

Land: 141.24

Buildings:

Land Value:

Improvement Value:

Total Value:

Appraised \$1,291,500.00

\$32,383,900.00

\$33,675,400.00

Assessed

\$22,669,000.00

\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 1969 **Primary Structure Area:** 6,924.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:34 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1958	Primary Structure Area:	10,211.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:34 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1994	Primary Structure Area:	19,061.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:35 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1900	Primary Structure Area:	13,853.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:35 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1971	Primary Structure Area:	6,508.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:36 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1975	Primary Structure Area:	1,652.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:36 AM

GIS ID: CT-112-14-A-008.00

Assessment: \$23,573,100.00

Owner Name: POMFRET SCHOOL INC

Appraisal: \$33,675,400.00

Street Address: 398 POMFRET ST

Mailing Address: PO BOX 128

POMFRET CT 062580128

Land: 141.24

Buildings:

Land Value:

Improvement Value:

Total Value:

Appraised \$1,291,500.00

\$32,383,900.00

\$33,675,400.00

Assessed

\$22,669,000.00

\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 1900 **Primary Structure Area:** 11,834.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:37 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1900	Primary Structure Area:	1,403.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:37 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1900	Primary Structure Area:	1,225.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:38 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1900	Primary Structure Area:	17,523.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:38 AM

GIS ID: CT-112-14-A-008.00

Assessment: \$23,573,100.00

Owner Name: POMFRET SCHOOL INC

Appraisal: \$33,675,400.00

Street Address: 398 POMFRET ST

Mailing Address: PO BOX 128

POMFRET CT 062580128

Land: 141.24

Buildings:

Land Value:

Improvement Value:

Total Value:

Appraised \$1,291,500.00

\$32,383,900.00

\$33,675,400.00

Assessed

\$22,669,000.00

\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 1920 **Primary Structure Area:** 72,166.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:39 AM

GIS ID: CT-112-14-A-008.00

Assessment: \$23,573,100.00

Owner Name: POMFRET SCHOOL INC

Appraisal: \$33,675,400.00

Street Address: 398 POMFRET ST

Mailing Address: PO BOX 128

POMFRET CT 062580128

Land: 141.24

Buildings:

	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 1965 **Primary Structure Area:** 32,502.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:39 AM

GIS ID: CT-112-14-A-008.00

Assessment: \$23,573,100.00

Owner Name: POMFRET SCHOOL INC

Appraisal: \$33,675,400.00

Street Address: 398 POMFRET ST

Mailing Address: PO BOX 128

POMFRET CT 062580128

Land: 141.24

Buildings:

Land Value:

Improvement Value:

Total Value:

Appraised \$1,291,500.00

\$32,383,900.00

\$33,675,400.00

Assessed

\$22,669,000.00

\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 2002 **Primary Structure Area:** 2,611.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:40 AM

GIS ID: CT-112-14-A-008.00 **Assessment:** \$23,573,100.00

Owner Name: POMFRET SCHOOL INC **Appraisal:** \$33,675,400.00

Street Address: 398 POMFRET ST **Mailing Address:** PO BOX 128
POMFRET CT 062580128

Land: 141.24	Buildings:		
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 2002 **Primary Structure Area:** 6,900.00 sq. ft.



Taxlot highlighted in blue

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

Parcel Information:

Report Generated: 11/14/2016 10:50:40 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1955	Primary Structure Area:	24,484.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:41 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	<i>POMFRET SCHOOL INC</i>	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128

Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00

Sale Date:		Sale Price:	\$0
Year Built:	1907	Primary Structure Area:	4,480.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:41 AM

GIS ID:	CT-112-14-A-008.00	Assessment:	\$23,573,100.00
Owner Name:	POMFRET SCHOOL INC	Appraisal:	\$33,675,400.00
Street Address:	398 POMFRET ST	Mailing Address:	PO BOX 128
			POMFRET CT 062580128
Land:	141.24	Buildings:	
	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00
Sale Date:		Sale Price:	\$0
Year Built:	1900	Primary Structure Area:	8,303.00 sq. ft.



Taxlot highlighted in blue

Parcel Information:

Report Generated: 11/14/2016 10:50:42 AM

GIS ID: CT-112-14-A-008.00 **Assessment:** \$23,573,100.00

Owner Name: POMFRET SCHOOL INC **Appraisal:** \$33,675,400.00

Street Address: 398 POMFRET ST **Mailing Address:** PO BOX 128
POMFRET CT 062580128

Land: 141.24 **Buildings:**

	Land Value:	Improvement Value:	Total Value:
Appraised	\$1,291,500.00	\$32,383,900.00	\$33,675,400.00
Assessed		\$22,669,000.00	\$23,573,100.00

Sale Date: **Sale Price:** \$0

Year Built: 1900 **Primary Structure Area:** 11,834.00 sq. ft.



Taxlot highlighted in blue