

December 21, 2016

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

Re: **Notice of Exempt Modification – Facility Modification**
197 North Street, Easton, Connecticut

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains twelve (12) antennas at the 165-foot level of the existing 185-foot tower at 197 North Street in Easton, Connecticut (the “Property”). The tower is owned by SBA Communications (“SBA”). The Council approved Cellco’s use of this tower in 2002. Cellco now intends to modify its facility by replacing six (6) of its antennas with three (3) model SBNHH-1D65B, 700/1900 MHz antennas and three (3) model SBNHH-1D65B, 2100 MHz antennas, all at the same level on the tower. Cellco also intends to install six (6) remote radio heads (“RRHs”) and two (2) HYBRIFLEX™ fiber optic antenna cables. Included in Attachment 1 are specifications for Cellco’s replacement antennas, RRHs and HYBRIFLEX™ cables.

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 Adam Dunsby, First Selectman of the Town of Easton. The Town of Easton is the owner of the Property. A copy of this letter is also being sent to 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).

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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 at a centerline height of 165 feet on the 185-foot tower.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table 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 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:

Adam Dunsby, Easton First Selectman
SBA
Tim Parks

ATTACHMENT 1



SBNHH-1D65B

Multiband Antenna, 698–896 and 2x 1695–2360 MHz, 65° horizontal beamwidth, internal RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	14.9	14.7	17.7	18.2	18.6	18.6
Beamwidth, Horizontal, degrees	68	66	69	66	63	58
Beamwidth, Vertical, degrees	12.1	10.7	5.6	5.2	5.0	4.5
Beam Tilt, degrees	0–14	0–14	0–7	0–7	0–7	0–7
USLS (First Lobe), dB	14	13	15	15	15	13
Front-to-Back Ratio at 180°, dB	27	29	28	28	28	27
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

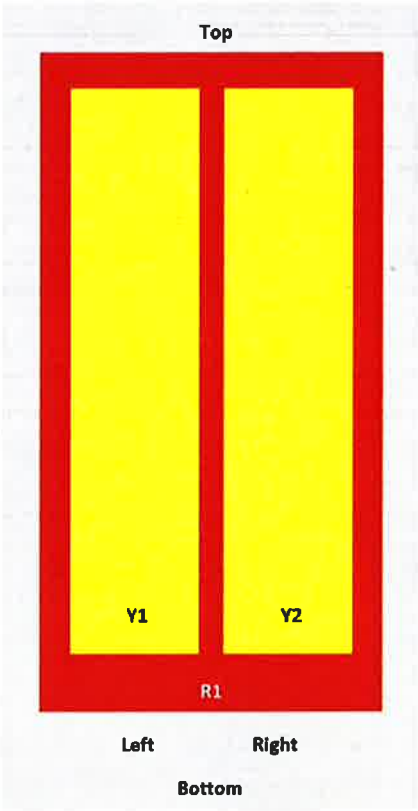
Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	14.5	14.3	17.4	17.9	18.2	18.3
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.8	±0.4	±0.3	±0.5	±0.3
	0 ° 14.6	0 ° 14.5	0 ° 17.4	0 ° 17.8	0 ° 18.1	0 ° 18.2
Gain by Beam Tilt, average, dBi	7 ° 14.6	7 ° 14.4	3 ° 17.5	3 ° 17.9	3 ° 18.3	3 ° 18.4
	14 ° 14.2	14 ° 13.6	7 ° 17.4	7 ° 17.9	7 ° 18.2	7 ° 18.4
Beamwidth, Horizontal Tolerance, degrees	±2.2	±3.4	±2	±4.6	±5.7	±4.3
Beamwidth, Vertical Tolerance, degrees	±0.8	±1	±0.3	±0.2	±0.3	±0.2
USLS, beampeak to 20° above beampeak, dB	16	14	16	16	16	15
Front-to-Back Total Power at 180° ± 30°, dB	25	26	27	26	26	26
CPR at Boresight, dB	22	23	21	20	20	22
CPR at Sector, dB	13	11	16	12	11	4

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

Array Layout

SBNHH-1D65B

SBNHH 65



Array	Freq (MHz)	Combs	RET (MRET)	AISG RET UID
R1	698-896	1-2	1	ARxxxxxxxxxxxxxxxxx 1
Y1	1695-2360	3-4	2	ARxxxxxxxxxxxxxxxxx 2
Y2	1695-2360	5-6		

View from the front of the antenna
(Sizes of colored boxes are not true depictions of array sizes)

General Specifications

Operating Frequency Band	1695 – 2360 MHz 698 – 896 MHz
Antenna Type	Sector
Band	Multiband
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	6
RF Connector Quantity, low band	2
RF Connector Quantity, high band	4
RF Connector Interface	7-16 DIN Female
Color	Light gray

Product Specifications



SBNHH-1D65B

Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	618.0 N @ 150 km/h 138.9 lbf @ 150 km/h
Wind Loading, lateral	197.0 N @ 150 km/h 44.3 lbf @ 150 km/h
Wind Loading, rear	728.0 N @ 150 km/h 163.7 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	1851.0 mm 72.9 in
Width	301.0 mm 11.9 in
Depth	180.0 mm 7.1 in
Net Weight, without mounting kit	18.4 kg 40.6 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	High band (1) Low band (1)
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	13.0 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male

Packed Dimensions

Length	2025.0 mm 79.7 in
Width	390.0 mm 15.4 in
Depth	296.0 mm 11.7 in
Shipping Weight	31.0 kg 68.3 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

Compliant by Exemption
Above Maximum Concentration Value (MCV)
Designed, manufactured and/or distributed under this quality management system



Included Products

Product Specifications



SBNHH-1D65B

BSAMNT-1 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note

Severe environmental conditions may degrade optimum performance

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.

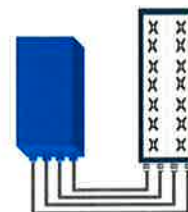


FEATURES

- 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 scheme	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) IP65
Wind load (@150km/h or 93mph)	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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ALCATEL-LUCENT B66A RRH4X45

The Alcatel-Lucent B66a Remote Radio Head 4x45 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. Its operational range covers beyond that of B4 (AWS) and B10 (AWS+).

Supporting 2Tx/4Tx MIMO and 2-way/4-way Rx diversity, the Alcatel-Lucent B66a RRH4x45 allows operators to have a compact radio solution to deploy LTE in the 2100 band (3GPP band 4, 10, and 66), providing them with the means to achieve high capacity, high quality, high reliability, large instantaneous bandwidth, and high coverage with minimum site requirements.

The Alcatel-Lucent B66a RRH4x45 product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x90W or 4x45W RF output power. It also supports 4-way Rx diversity at the 70 MHz instantaneous bandwidth.



The Alcatel-Lucent B66a RRH4x45 is a compact (near zero-footprint) solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

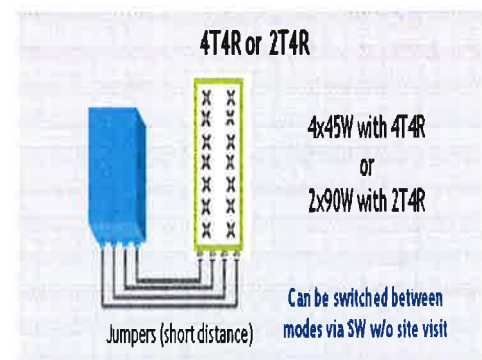
Its compactness and slim design makes the Alcatel-Lucent B66a RRH4x45 easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

FEATURES

- Supporting LTE in 2110 - 2180 MHz band/DL, 1710-1780MHz/UL (3GPP band 4, 10, and 66a)
- LTE 2Tx or 4Tx MIMO (SW selectable)
- Configuration: 2T2R/2T4R/4T4R
- Output power: Up to 2x90W or 4x45W (SW configurable)
- 70MHz 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 AWS 1-3 band
- Selection of MIMO configuration (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through 4Tx MIMO
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



TECHNICAL SPECIFICATIONS

Features & Performance	
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R selectable by SW)
Frequency band	AWS 1-3, B4/B66a DL: 2110-2180 MHz / UL: 1710-1780 MHz
Instantaneous bandwidth - #carriers	70 MHz – 4 LTE MIMO carriers (In 70 MHz occupied bandwidth)
LTE carrier bandwidth	5, 10, 15, 20 MHz
RF output power	2x90W or 4x45W (selectable by SW)
Noise figure – RX Diversity scheme Receiver Sensivity (FRC A1-3)	2 dB typical (<2.5 dB max) – 2 or 4 way Rx diversity -104.5 dBm maximum
Sizes (HxWxD) in mm (in.)	655x299x182 (25.8x11.8x7.2) (with solar shield) 640x290x160 (25.2x11.4x6.3) (without solar shield)
Volume in Liters	35.5 (with solar shield) 29.7 (without solar shield)
Weight in kg (lb) (w/o mounting HW)	25.8kg (56.8lb) (with solar shield)
DC voltage range	Nominal: -48V, -40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	750W typical @100% RF load (in 2Tx or 4Tx mode); Add 58W for 2A*29V for AISG
Environmental conditions	-40°C (-40°F) / +55°C (+131°F) UL50E Type 4 Enclosure
Wind load (@150km/h or 93mph)	250N (56lb) Frontal/150N (34lb) Lateral
Antenna ports	4 ports 4.3-10 female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate 7, 9.8 Gbps) SFP: SMDf (HW supports also SMSF and MMDF)
AISG interfaces	1 AISG 2.0 output (RS485) Integrated Smart Bias Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-487 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27 / FCC Part 15 / GR-3178-CORE

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

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

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

Features/Benefits

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



Figure 1: HYBRIFLEX Series

Technical Specifications

Outer Conductor Armor	Corrugated Aluminum	(mm (in))	46.5 (1.83)
Jacket	Polyethylene, PE	(mm (in))	50.3 (1.98)
UV-Protection	Individual and External Jacket		Yes
Weight, Approximate		(kg/m (lb/ft))	1.9 (1.30)
Minimum Bending Radius, Single Bending		(mm (in))	200 (8)
Minimum Bending Radius, Repeated Bending		(mm (in))	500 (20)
Recommended/Maximum Clamp Spacing		(m (ft))	1.0 / 1.2 (3.25 / 4.0)
DC-Resistance Outer Conductor Armor		(Ω/km (Ω/1000ft))	068 (0.205)
DC-Resistance Power Cable, 8.4mm² (8AWG)		(Ω/km (Ω/1000ft))	2.1 (0.307)
Version			Single-mode OM3
Quantity, Fiber Count			16 (8 pairs)
Core/Clad		(μm)	50/125
Primary Coating (Acrylate)		(μm)	245
Buffer Diameter, Nominal		(μm)	900
Secondary Protection, Jacket, Nominal		(mm (in))	2.0 (0.08)
Minimum Bending Radius		(mm (in))	104 (4.1)
Insertion Loss @ wavelength 850nm		dB/km	3.0
Insertion Loss @ wavelength 1310nm		dB/km	1.0
Standards (Meets or exceeds)			UL94-V0, UL1666 RoHS Compliant
Size (Power)		(mm (AWG))	8.4 (8)
Quantity, Wire Count (Power)			16 (8 pairs)
Size (Alarm)		(mm (AWG))	0.8 (18)
Quantity, Wire Count (Alarm)			4 (2 pairs)
Type			UV protected
Strands			19
Primary Jacket Diameter, Nominal		(mm (in))	6.8 (0.27)
Standards (Meets or exceeds)			NFPA 130, IEC 60332-1 UL Type XHHW-2, UL 44 UL-LS Limited Smoke, UL VW-1 IEEE-383 (1974), IEEE1202/FT4 RoHS Compliant
Installation Temperature		(°C (°F))	-40 to +65 (-40 to 149)
Operation Temperature		(°C (°F))	-40 to +65 (-40 to 149)

* This data is provisional and subject to change

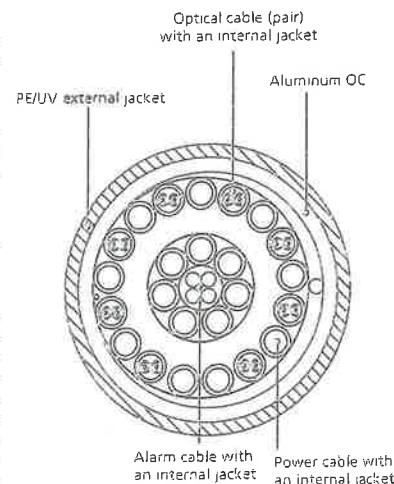


Figure 2: Construction Detail

ATTACHMENT 2

Site Name: Easton N Tower Height: 185'		General	Power	Density					
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total	
*Sprint	2	347	175	1900	0.0087	1.0000	0.09%		
*Sprint	1	195	175	850	0.0025	0.5667	0.04%		
*Sprint	2	195	175	2500	0.0049	1.0000	0.05%		
*VoiceStream	6	1102	185	1930	0.0742	1.0000	0.74%		
*VoiceStream	1	865	185	700	0.0097	0.4667	0.21%		
*AT&T UMTS	1	500	155	880	0.0081	0.5867	0.14%		
*AT&T UMTS	1	500	155	1900	0.0081	1.0000	0.08%		
*AT&T GSM	6	296	155	880	0.0288	0.5867	0.49%		
*AT&T GSM	3	427	155	1900	0.0208	1.0000	0.21%		
*AT&T LTE	1	500	155	740	0.0081	0.4933	0.16%		
Verizon	2	2240	165	0.0592	1970	1.0000	5.92%		
Verizon	9	375	165	0.0446	869	0.5793	7.69%		
Verizon	2	3298	165	0.0871	2145	1.0000	8.71%		
Verizon	2	975	165	0.0258	698	0.4973	5.18%		
								29.7%	
* 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 185 ft Sterling Monopine

Customer Name: SBA Communications Corp

Customer Site Number: CT00707-S

Customer Site Name: North Easton

Carrier Name: Verizon

Carrier Site ID / Name: 118106 / Easton North CT

Site Location: 275 North Street

Easton, Connecticut

Fairfield County

Latitude: 41.316417

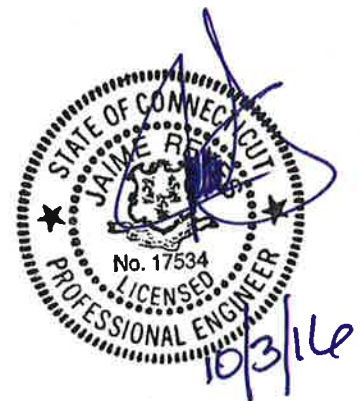
Longitude: -73.314022

Analysis Result:

Max Structural Usage: 76.9% [Pass]

Max Foundation Usage: 64% [Pass]

Report Prepared By : Jarryd Tibbetts



Introduction

The purpose of this report is to summarize the analysis results on the 185 ft Sterling Monopine 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 structural design report & shaft section data prepared by Paul J. Ford and Company. Dated 08-10-1999. Job No 20099-146. Monopole previous structural report prepared by FDH Engineering, Inc. Dated 03-04-2015. Project No 15BFFU1400.
Foundation Drawing	Monopole foundation drawing prepared by Paul J. Ford and Company. Dated 08-10-1999. Job No 20099-146.
Geotechnical Report	Monopole geotechnical report prepared by Jaworski Geotech, Inc. Dated 07-30-1999. Project No C98404G.
Modification Drawings	Modification Drawing prepared by TES, Job #14918 dated 4/23/15

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 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	ANSI/TIA/EIA 222-G / 2012 IBC / 2016 Connecticut State Building Code
Exposure Category:	B
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_s = 0.213g$, $S_1 = 0.066g$

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	185.0	-	6' Pole Branch	Direct	-	-
2	185.0	6	Allen Telecom - FE15S01P77/75 TMAs	(3) Cobra Arms	(12) 1 5/8"	T-Mobile
3		3	Commscope - LNX-6515DS			
4		3	EMS - RR90-17-02DP			
5		3	Kathrein - 782 11056			
6	179.5	-	6' Pole Branch	Direct	-	-
7	175.0	3	Alcatel Lucent - 1900 MHz RRUs	(3) Cobra Arms	(4) 1 1/4" Coax	Sprint
8		3	Alcatel Lucent - 800 MHz Filters			
9		3	Alcatel Lucent - 800 MHz RRUs			
10		3	Alcatel Lucent - TD-RRH8x20-25			
11		4	RFS - ACU-A20-N RETs			
12		3	RFS - APXVSP18-C-A20			
13		3	RFS - APXVTM14-C-120			
14	174.5	-	7' Pole Branch	Direct	-	-
15	169.5	-	8' Pole Branch	Direct	-	-
16	165.0	2	Swedcom - SLCP 2x6014 - Panel	(3) Cobra Arms	(12) 1 5/8"	Verizon
17		4	Swedcom - SC-E 6014 Rev 2 - Panel			
18		1	Antel - BXA-70063/6CF - Panel			
19		2	Antel - LPA-80063/6CF - Panel			
20		3	Antel - BXA-171063/8BF - Panel			
24		6	RFS - FD9R6004/2C-3L - Diplexer			
26	164.5	-	8' Pole Branch	Direct	-	-
27	159.5	-	9' Pole Branch	Direct	-	-
28	155.0	6	Ericsson - RRUS-11 RRUs	(3) Cobra Arms	(12) 1 5/8"; (1) Fiber; (2) DC Power	AT&T Wireless
29		6	Powerwave - 7770.00			
30		6	Powerwave - LGP 21401 TMAs			
31		6	Powerwave - LGP21903 Diplexers			
32		3	Powerwave - P65-16-XLH-RR			
33		1	Raycap - DC6-48-60-18-8F Surge			
34	154.5	-	9' Pole Branch	Direct	-	-
35	149.5	-	10' Pole Branch	Direct	-	-
36	144.5	-	11' Pole Branch	Direct	-	-

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
17	165.0	4	Swedcom - SC-E 6014 Rev 2 - Panel	(3) Cobra Arms	(12) 1 5/8" (2) 1 5/8" Fiber	Verizon
19		2	Antel - LPA 80063/6CF - Panel			
21		6	Andrew - SBNHH-1D65B - Panel			
22		3	Alcatel Lucent - RRH2X60-700 - RRU			
23		3	Alcatel Lucent - RRH4X45-AWS - RRU			
25		2	RFS - DB-B1-6C-12AB-0Z - Distribution Box			

The proposed transmission lines can be installed inside or outside of the pole shafts. If installed outside, the lines shall be strapped tightly to the face of the pole shafts. Stacking lines is not allowed.

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:	76.9%	70.4%	56.5%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)
Original Design Reactions	7275.0	52.5
Analysis Reactions	6955.1	49.6
Factored Reactions*	9821.3	70.9
% of Design Reactions	70.8%	69.9%

* 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):

Operational characteristics of the tower are found to be within the limits prescribed by ANSI/TIA/EIA 222-G for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.4848 degrees under the operational wind speed as specified in the Analysis Criteria.

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 76.88% at 0.0ft

Structure: CT00707-S-SBA
Site Name: North Easton
Height: 185.00 (ft)
Base Elev: 0.000 (ft)

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

9/30/2016

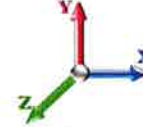


Page: 1

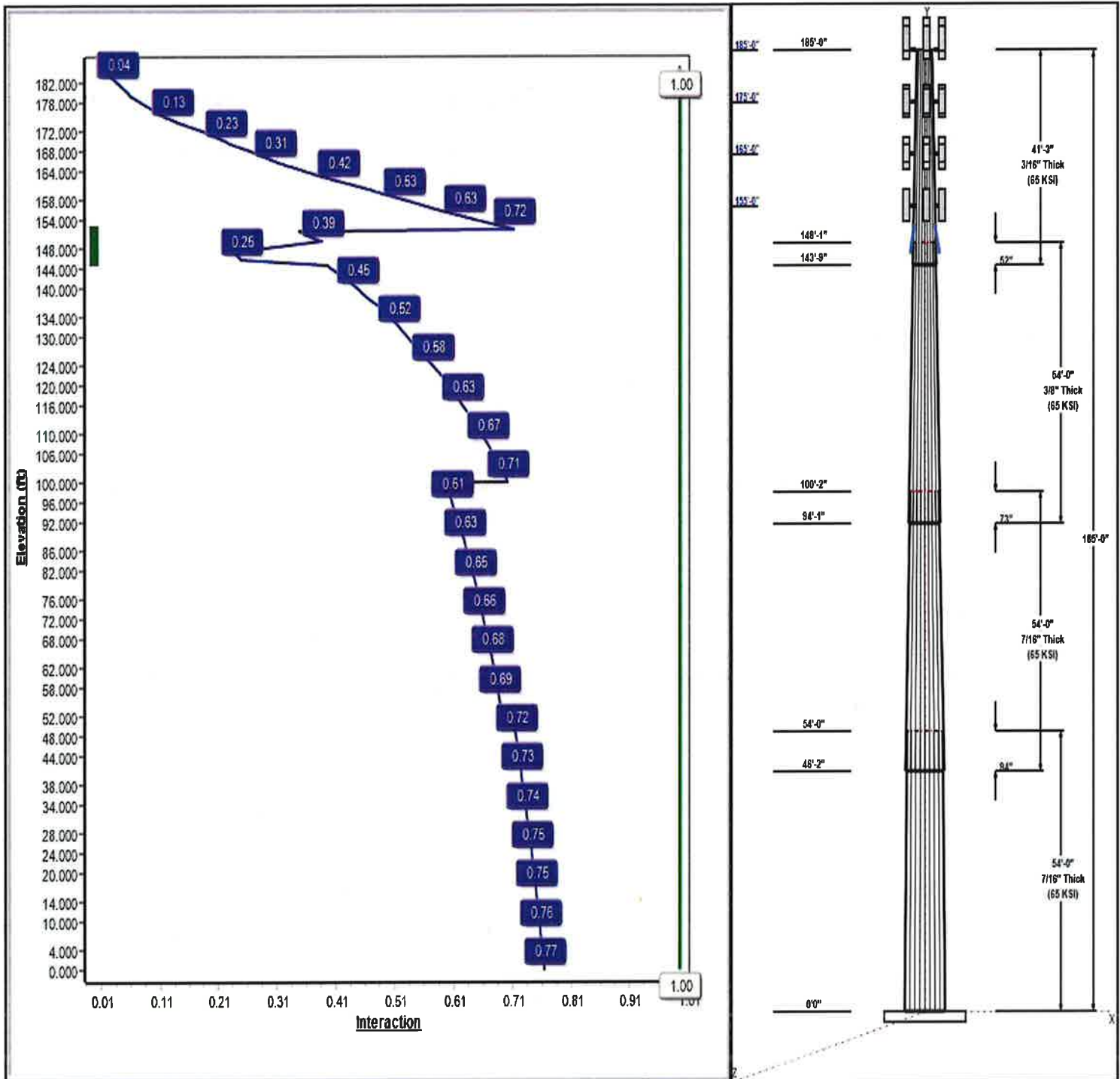
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Iterations: 29

Load Case : 1.2D + 1.6W 101 mph Wind



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Structure: CT00707-S-SBA

Type: Tapered
Site Name: North Easton
Height: 185.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.28716

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Shaft Properties

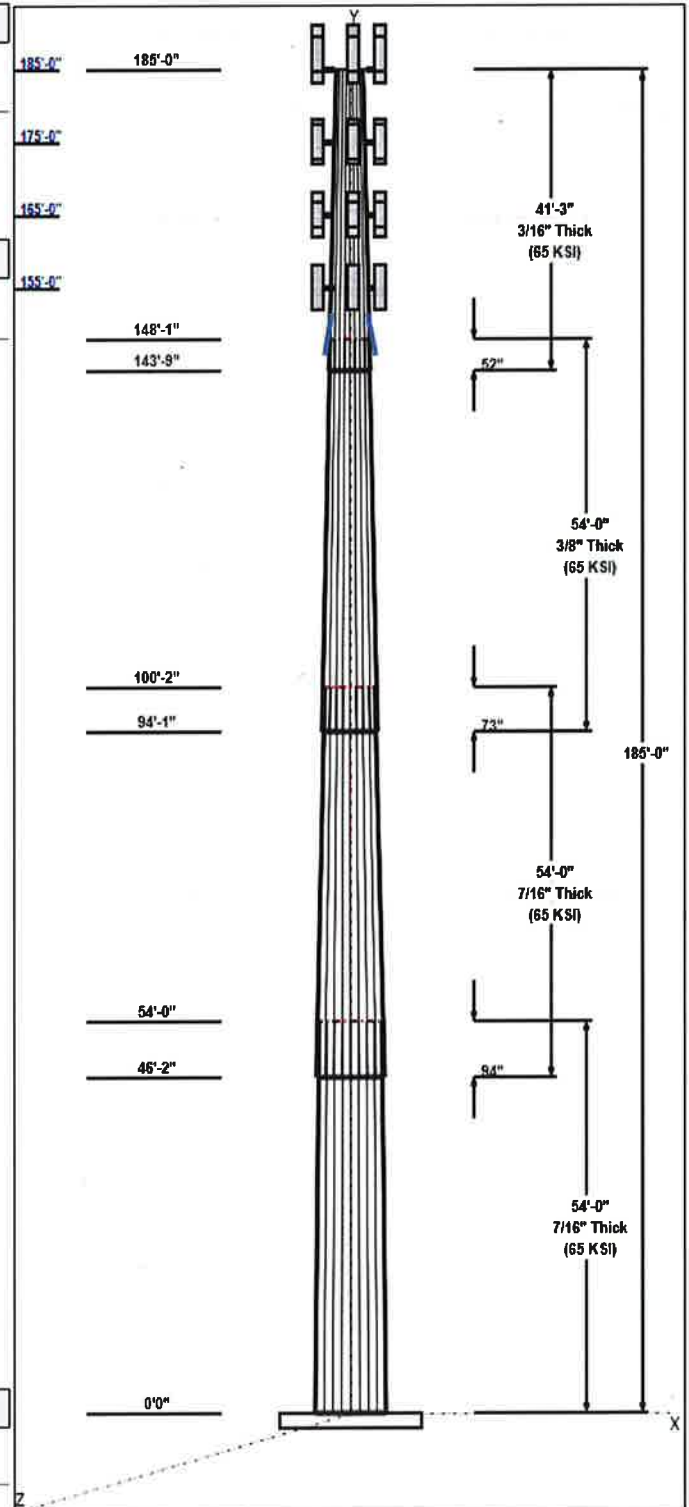
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	54.00	56.99	72.50	0.438		0.28716	65
2	54.00	44.61	60.12	0.438	Slip	0.28716	65
3	54.00	31.60	47.11	0.375	Slip	0.28716	65
4	41.25	21.38	33.22	0.188	Slip	0.28716	65

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
185.00	187.00	3	EMS RR90-17-02DP	T-Mobile
185.00	187.00	3	Commscope LNX-6515DS	T-Mobile
185.00	187.00	3	Kathrein 782 11056	T-Mobile
185.00	187.00	6	Allen Telecom	T-Mobile
185.00	185.00	3	Cobra Arms	T-Mobile
185.00	185.00	1	6' Pole Branch	---
179.50	179.50	1	6' Pole Branch	---
175.00	175.00	3	Cobra Arms	Sprint
175.00	175.00	3	RFS APXVTM14-C-120	Sprint
175.00	175.00	3	RFS APXVSP18-C-A20	Sprint
175.00	175.00	3	Alcatel Lucent 800 MHz	Sprint
175.00	175.00	3	Alcatel Lucent	Sprint
175.00	175.00	3	Alcatel Lucent 1900 MHz	Sprint
175.00	175.00	3	Alcatel Lucent 800 MHz	Sprint
175.00	175.00	4	RFS ACU-A20-N RETs	Sprint
174.50	174.50	1	7' Pole Branch	---
169.50	169.50	1	8' Pole Branch	---
165.00	165.00	3	Cobra Arms	Verizon
165.00	165.00	4	Swedcom SC-E 6014 Rev	Verizon
165.00	165.00	2	Antel LPA 80063/6CF	Verizon
165.00	165.00	6	SBNHH-1D65B	Verizon
165.00	165.00	3	RRH2X60-700	Verizon
165.00	165.00	3	RRH4X45-AWS	Verizon
165.00	165.00	2	DB-B1-6C-12AB-0Z	Verizon
164.50	164.50	1	8' Pole Branch	---
159.50	159.50	1	9' Pole Branch	---
155.00	155.00	3	Cobra Arms	AT&T
155.00	155.00	6	Powerwave 7770.00	AT&T
155.00	155.00	3	Powerwave	AT&T
155.00	155.00	6	Powerwave LGP 21401	AT&T
155.00	155.00	6	Powerwave LGP21903	AT&T
155.00	155.00	6	Ericsson RRUS-11 RRUs	AT&T
155.00	155.00	1	Raycap DC6-48-60-18-8F	AT&T
154.50	154.50	1	9' Pole Branch	---
149.50	149.50	1	10' Pole Branch	---
144.50	144.50	1	11' Pole Branch	---

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
3.00	185.00	Outside	1 5/8" Coax	T-Mobile
3.00	185.00	Inside	1 5/8" Coax	T-Mobile
3.00	175.00	Inside	1 1/4" Coax	Sprint
0.00	165.00	Outside	1 5/8" Hybrid	Verizon
3.00	165.00	Inside	1 5/8" Coax	Verizon
3.00	155.00	Inside	1 5/8" Coax	AT&T



Structure: CT00707-S-SBA

Type: Tapered
Site Name: North Easton
Height: 185.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.28716

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3.00	155.00	Inside	DC Power	AT&T
3.00	155.00	Inside	Fiber	AT&T
143.75	153.75	Outside	1" Reinforcing plate	

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
24	2.25" 18J	75.0	Cluster

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.5000	79.6	50.0	Square

Reactions

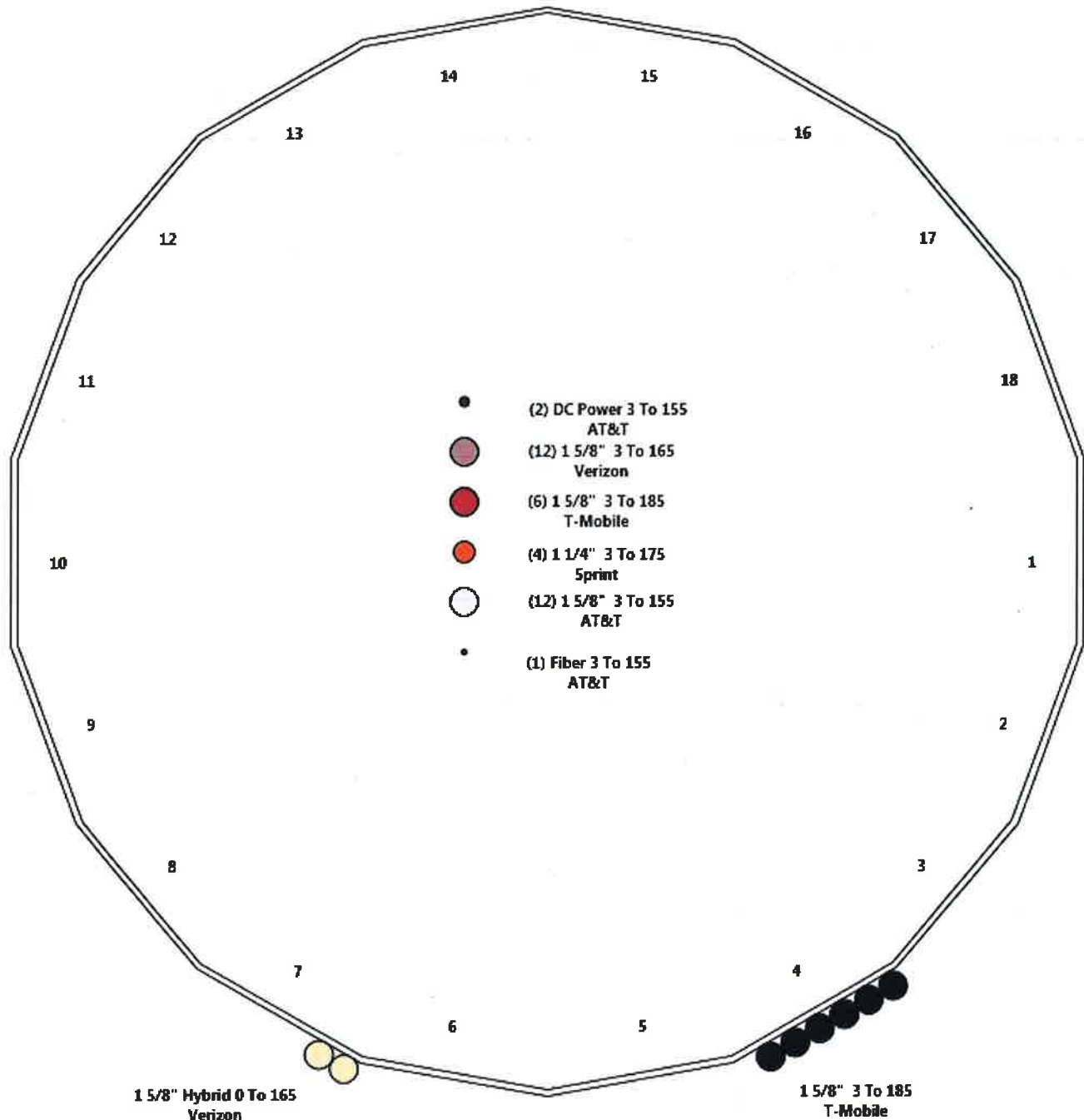
Load Case	Moment	Shear	Axial
1.2D + 1.6W 101 mph Wind	6955.1	49.6	72.0
0.9D + 1.6W 101 mph Wind	6885.9	49.6	54.0
1.2D + 1.0Dj + 1.0Wi 50 mph Wind	1893.9	13.3	114.4
1.2D + 1.0E	378.5	2.9	72.0
0.9D + 1.0E	374.3	2.9	54.0
1.0D + 1.0W 60 mph Wind	1526.4	10.9	60.0

Structure: CT00707-S-SBA - Coax Line Placement

Type: Monopole
Site Name: North Easton
Height: 185.00 (ft)

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Shaft Properties

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 5



Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	54.000	0.4375	65		0.00	16,409
2	18	54.000	0.4375	65	Slip	94.00	13,249
3	18	54.000	0.3750	65	Slip	73.00	8,525
4	18	41.250	0.1875	65	Slip	52.00	2,265
Total Shaft Weight:							40,447

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	72.50	0.00	100.0	65652.37	27.81	165.71	56.99	54.00	78.53	31736.0	21.56	130.2	0.287162
2	60.12	46.17	82.87	37291.75	22.82	137.41	44.61	100.17	61.34	15121.8	16.57	101.9	0.287162
3	47.11	94.08	55.62	15347.65	20.74	125.62	31.60	148.08	37.17	4578.55	13.45	84.27	0.287162
4	33.22	143.7	19.66	2710.11	29.83	177.18	21.38	185.00	12.61	715.13	18.69	114.0	0.287162

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Intermediate Connectors		Termination Connectors			
							Description	Spacing (in)	Description	Spacing (in)	Lower Qty	Upper Qty
145.7	151.7	3	LNP LP6X100-G-10CT	65	80	0.00	5/8" Hollo Bolt	24.00	M20 Hollo Bolt	3.00	8	8

Load Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 6



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	185.00	EMS RR90-17-02DP	3	18.00	4.36	0.79	119.03	5.369	0.79	0.00	2.00
2	185.00	Commscope LNX-6515DS	3	50.30	11.47	0.80	287.07	14.806	0.80	0.00	2.00
3	185.00	Kathrein 782 11056	3	2.90	0.13	0.67	6.98	0.428	0.67	0.00	2.00
4	185.00	Allen Telecom FE15S01P77/75	6	17.50	0.55	0.75	46.16	1.161	0.75	0.00	2.00
5	185.00	Cobra Arms	3	350.00	6.50	0.75	629.45	9.836	0.75	0.00	0.00
6	185.00	6' Pole Branch	1	300.00	16.06	1.00	663.57	30.371	1.00	0.00	0.00
7	179.50	6' Pole Branch	1	300.00	46.00	1.00	662.47	86.867	1.00	0.00	0.00
8	175.00	Cobra Arms	3	400.00	13.50	0.75	717.60	20.391	0.75	0.00	0.00
9	175.00	RFS APXVTM14-C-120	3	56.00	6.34	0.79	219.42	7.472	0.79	0.00	0.00
10	175.00	RFS APXVSP18-C-A20	3	57.00	8.02	0.83	232.54	10.857	0.83	0.00	0.00
11	175.00	Alcatel Lucent 800 MHz RRUs	3	53.00	2.49	0.75	128.11	3.651	0.75	0.00	0.00
12	175.00	Alcatel Lucent TD-RRH8x20-25	3	70.00	4.05	0.75	182.54	4.877	0.75	0.00	0.00
13	175.00	Alcatel Lucent 1900 MHz RRUs	3	44.00	3.80	0.75	154.86	5.212	0.75	0.00	0.00
14	175.00	Alcatel Lucent 800 MHz Filters	3	17.50	2.91	0.75	43.59	4.146	0.75	0.00	0.00
15	175.00	RFS ACU-A20-N RETs	4	1.00	0.14	0.67	5.36	0.441	0.67	0.00	0.00
16	174.50	7' Pole Branch	1	460.00	15.00	1.00	1014.23	28.289	1.00	0.00	0.00
17	169.50	8' Pole Branch	1	560.00	35.00	1.00	1232.75	65.917	1.00	0.00	0.00
18	165.00	Cobra Arms	3	400.00	13.50	0.75	715.74	20.350	0.75	0.00	0.00
19	165.00	Swedcom SC-E 6014 Rev 2	4	15.00	3.33	0.97	110.69	5.015	0.97	0.00	0.00
20	165.00	Antel LPA 80063/6CF	2	27.00	9.60	0.94	318.22	10.966	0.94	0.00	0.00
21	165.00	SBNHH-1D65B	6	40.00	8.16	0.83	245.45	9.473	0.85	0.00	0.00
22	165.00	RRH2X60-700	3	55.00	3.50	0.76	135.78	4.297	0.78	0.00	0.00
23	165.00	RRH4X45-AWS	3	64.00	2.60	0.80	148.59	3.311	0.82	0.00	0.00
24	165.00	DB-B1-6C-12AB-0Z	2	21.40	4.10	0.91	141.15	4.909	0.92	0.00	0.00
25	164.50	8' Pole Branch	1	560.00	24.24	1.00	1230.74	45.588	1.00	0.00	0.00
26	159.50	9' Pole Branch	1	660.00	45.00	1.00	1448.08	84.509	1.00	0.00	0.00
27	155.00	Cobra Arms	3	400.00	13.50	0.75	713.77	20.308	0.75	0.00	0.00
28	155.00	Powerwave 7770.00	6	35.00	5.50	0.78	170.72	6.569	0.78	0.00	0.00
29	155.00	Powerwave P65-16-XLH-RR	3	53.00	8.16	0.78	218.59	10.972	0.78	0.00	0.00
30	155.00	Powerwave LGP 21401 TMAs	6	17.50	0.95	0.67	45.87	1.234	0.50	0.00	0.00
31	155.00	Powerwave LGP21903 Diplexers	6	5.50	0.27	0.84	13.96	0.669	0.50	0.00	0.00
32	155.00	Ericsson RRUS-11 RRUs	6	55.00	4.42	0.68	145.25	5.925	0.75	0.00	0.00
33	155.00	Raycap DC6-48-60-18-8F Surge	1	31.80	1.47	1.00	93.83	2.172	1.00	0.00	0.00
34	154.50	9' Pole Branch	1	660.00	33.48	1.00	1445.57	62.781	1.00	0.00	0.00
35	149.50	10' Pole Branch	1	700.00	50.00	1.00	1530.45	93.616	1.00	0.00	0.00
36	144.50	11' Pole Branch	1	720.00	42.72	1.00	1571.27	79.859	1.00	0.00	0.00
Totals:			106	12,407.70			30,241.30				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
3.00	185.00	(6) 1 5/8" Coax	2.00	Outside
3.00	185.00	(6) 1 5/8" Coax	0.00	Inside
3.00	175.00	(4) 1 1/4" Coax	0.00	Inside
0.00	165.00	(2) 1 5/8" Hybrid	2.00	Outside
3.00	165.00	(12) 1 5/8" Coax	0.00	Inside

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		
3.00	155.00	(12) 1 5/8" Coax		0.00		Inside					
3.00	155.00	(2) DC Power		0.00		Inside					
3.00	155.00	(1) Fiber		0.00		Inside					
143.7	153.75	(3) 1" Reinforcing plate		1.00		Outside					

Shaft Section Properties

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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: 2 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
0.00		0.4375	72.500	100.064	65652.4	27.81	165.71	65	69	0.0				
2.00		0.4375	71.926	99.267	64095.1	27.58	164.40	65	69	678.3				
4.00		0.4375	71.351	98.469	62562.7	27.35	163.09	65	69	672.9				
6.00		0.4375	70.777	97.672	61054.9	27.11	161.78	65	70	667.4				
8.00		0.4375	70.203	96.874	59571.6	26.88	160.46	65	70	662.0				
10.00		0.4375	69.628	96.077	58112.4	26.65	159.15	65	70	656.6				
12.00		0.4375	69.054	95.279	56677.3	26.42	157.84	65	70	651.1				
14.00		0.4375	68.480	94.482	55266.0	26.19	156.53	65	71	645.7				
16.00		0.4375	67.905	93.684	53878.3	25.96	155.21	65	71	640.3				
18.00		0.4375	67.331	92.887	52514.1	25.73	153.90	65	71	634.9				
20.00		0.4375	66.757	92.089	51173.1	25.49	152.59	65	71	629.4				
22.00		0.4375	66.182	91.292	49855.1	25.26	151.27	65	72	624.0				
24.00		0.4375	65.608	90.494	48559.9	25.03	149.96	65	72	618.6				
26.00		0.4375	65.034	89.697	47287.4	24.80	148.65	65	72	613.2				
28.00		0.4375	64.459	88.899	46037.2	24.57	147.34	65	73	607.7				
30.00		0.4375	63.885	88.102	44809.4	24.34	146.02	65	73	602.3				
32.00		0.4375	63.311	87.304	43603.5	24.11	144.71	65	73	596.9				
34.00		0.4375	62.736	86.507	42419.5	23.87	143.40	65	73	591.4				
36.00		0.4375	62.162	85.709	41257.1	23.64	142.08	65	74	586.0				
38.00		0.4375	61.588	84.912	40116.1	23.41	140.77	65	74	580.6				
40.00		0.4375	61.014	84.114	38996.4	23.18	139.46	65	74	575.2				
42.00		0.4375	60.439	83.317	37897.7	22.95	138.15	65	74	569.7				
44.00		0.4375	59.865	82.519	36819.8	22.72	136.83	65	75	564.3				
46.00		0.4375	59.291	81.722	35762.6	22.49	135.52	65	75	558.9				
46.17	Bot - Section 2	0.4375	59.243	81.655	35675.4	22.47	135.41	65	75	46.3				
48.00		0.4375	58.716	80.924	34725.8	22.25	134.21	65	75	1021.8				
50.00		0.4375	58.142	80.127	33709.2	22.02	132.90	65	75	1104.3				
52.00		0.4375	57.568	79.329	32712.7	21.79	131.58	65	76	1093.5				
54.00	Top - Section 1	0.4375	57.868	79.747	33231.9	21.91	132.27	65	76	1082.6				
56.00		0.4375	57.294	78.949	32244.9	21.68	130.96	65	76	540.0				
58.00		0.4375	56.720	78.152	31277.6	21.45	129.64	65	76	534.6				
60.00		0.4375	56.145	77.354	30329.8	21.22	128.33	65	76	529.2				
62.00		0.4375	55.571	76.557	29401.4	20.99	127.02	65	77	523.7				
64.00		0.4375	54.997	75.759	28492.1	20.75	125.71	65	77	518.3				
66.00		0.4375	54.422	74.962	27601.8	20.52	124.39	65	77	512.9				
68.00		0.4375	53.848	74.164	26730.2	20.29	123.08	65	78	507.4				
70.00		0.4375	53.274	73.367	25877.1	20.06	121.77	65	78	502.0				
72.00		0.4375	52.699	72.569	25042.4	19.83	120.46	65	78	496.6				
74.00		0.4375	52.125	71.772	24225.8	19.60	119.14	65	78	491.2				
76.00		0.4375	51.551	70.974	23427.2	19.37	117.83	65	79	485.7				
78.00		0.4375	50.976	70.177	22646.4	19.13	116.52	65	79	480.3				
80.00		0.4375	50.402	69.379	21883.0	18.90	115.20	65	79	474.9				
82.00		0.4375	49.828	68.582	21137.1	18.67	113.89	65	79	469.5				
84.00		0.4375	49.253	67.785	20408.2	18.44	112.58	65	80	464.0				
86.00		0.4375	48.679	66.987	19696.4	18.21	111.27	65	80	458.6				
88.00		0.4375	48.105	66.190	19001.2	17.98	109.95	65	80	453.2				
90.00		0.4375	47.530	65.392	18322.7	17.75	108.64	65	81	447.7				
92.00		0.4375	46.956	64.595	17660.5	17.51	107.33	65	81	442.3				
94.00		0.4375	46.382	63.797	17014.4	17.28	106.02	65	81	436.9				
94.08	Bot - Section 3	0.4375	46.358	63.764	16987.8	17.27	105.96	65	81	18.1				

Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
96.00		0.4375	45.807	63.000	16384.3	17.05	104.70	65	81	774.0				
98.00		0.4375	45.233	62.202	15769.9	16.82	103.39	65	82	797.8				
100.00		0.4375	44.659	61.405	15171.1	16.59	102.08	65	82	787.7				
100.17	Top - Section 2	0.3750	45.361	53.543	13690.1	19.92	120.96	65	78	65.2				
102.00		0.3750	44.834	52.916	13215.0	19.67	119.56	65	78	332.1				
104.00		0.3750	44.260	52.232	12709.5	19.40	118.03	65	79	357.8				
106.00		0.3750	43.686	51.549	12217.0	19.13	116.50	65	79	353.1				
108.00		0.3750	43.111	50.865	11737.4	18.86	114.96	65	79	348.5				
110.00		0.3750	42.537	50.182	11270.5	18.59	113.43	65	80	343.8				
112.00		0.3750	41.963	49.498	10816.2	18.32	111.90	65	80	339.2				
114.00		0.3750	41.389	48.815	10374.2	18.05	110.37	65	80	334.5				
116.00		0.3750	40.814	48.131	9944.5	17.78	108.84	65	80	329.9				
118.00		0.3750	40.240	47.447	9526.8	17.51	107.31	65	81	325.2				
120.00		0.3750	39.666	46.764	9120.9	17.24	105.77	65	81	320.6				
122.00		0.3750	39.091	46.080	8726.8	16.97	104.24	65	81	315.9				
124.00		0.3750	38.517	45.397	8344.2	16.70	102.71	65	82	311.3				
126.00		0.3750	37.943	44.713	7972.9	16.43	101.18	65	82	306.6				
128.00		0.3750	37.368	44.030	7612.8	16.16	99.65	65	82	302.0				
130.00		0.3750	36.794	43.346	7263.7	15.89	98.12	65	83	297.3				
132.00		0.3750	36.220	42.662	6925.4	15.62	96.59	65	83	292.7				
134.00		0.3750	35.645	41.979	6597.8	15.35	95.05	65	83	288.0				
136.00		0.3750	35.071	41.295	6280.8	15.08	93.52	65	83	283.4				
138.00		0.3750	34.497	40.612	5974.0	14.81	91.99	65	83	278.7				
140.00		0.3750	33.922	39.928	5677.4	14.54	90.46	65	83	274.1				
142.00		0.3750	33.348	39.245	5390.8	14.27	88.93	65	83	269.4				
143.75	Bot - Section 4	0.3750	32.845	38.647	5148.0	14.03	87.59	65	83	231.9				
144.00		0.3750	32.774	38.561	5113.9	14.00	87.40	65	83	49.5				
144.50		0.3750	32.630	38.390	5046.3	13.93	87.01	65	83	98.8				
145.75	RB1	0.3750	32.271	37.963	4879.7	13.76	86.06	65	83	245.0	18.00	2574.9	2574.9	76.6
146.00		0.3750	32.199	37.878	4846.8	13.73	85.86	65	83	48.7	18.00	2564.0	2564.0	15.3
148.00		0.3750	31.625	37.194	4589.1	13.46	84.33	65	83	385.5	18.00	2478.0	2478.0	122.5
148.08	Top - Section 3	0.1875	31.976	18.917	2415.2	28.66	170.54	65	68	15.9	18.00	2474.4	2474.4	5.1
149.50		0.1875	31.569	18.675	2323.7	28.28	168.37	65	68	90.6	18.00	2414.5	2414.5	86.8
150.00		0.1875	31.426	18.590	2291.9	28.14	167.60	65	68	31.7	18.00	2393.5	2393.5	30.6
151.75	RT1	0.1875	30.923	18.291	2183.1	27.67	164.92	65	69	109.8	18.00	2320.7	2320.7	107.2
152.00		0.1875	30.851	18.248	2167.8	27.60	164.54	65	69	15.5				
154.00		0.1875	30.277	17.906	2048.3	27.06	161.48	65	70	123.0				
154.50		0.1875	30.133	17.821	2019.1	26.93	160.71	65	70	30.4				
155.00		0.1875	29.990	17.735	1990.2	26.79	159.95	65	70	30.2				
156.00		0.1875	29.703	17.565	1933.2	26.52	158.41	65	70	60.1				
158.00		0.1875	29.128	17.223	1822.6	25.98	155.35	65	71	118.4				
159.50		0.1875	28.698	16.966	1742.4	25.58	153.05	65	71	87.3				
160.00		0.1875	28.554	16.881	1716.2	25.44	152.29	65	71	28.8				
162.00		0.1875	27.980	16.539	1614.0	24.90	149.23	65	72	113.7				
164.00		0.1875	27.405	16.197	1516.0	24.36	146.16	65	73	111.4				
164.50		0.1875	27.262	16.112	1492.2	24.23	145.40	65	73	27.5				
165.00		0.1875	27.118	16.027	1468.6	24.09	144.63	65	73	27.3				
166.00		0.1875	26.831	15.856	1422.1	23.82	143.10	65	73	54.2				
168.00		0.1875	26.257	15.514	1332.1	23.28	140.04	65	74	106.7				
169.50		0.1875	25.826	15.258	1267.1	22.88	137.74	65	74	78.5				
170.00		0.1875	25.682	15.172	1246.0	22.74	136.97	65	75	25.9				
172.00		0.1875	25.108	14.830	1163.6	22.20	133.91	65	75	102.1				
174.00		0.1875	24.534	14.489	1085.0	21.66	130.85	65	76	99.8				
174.50		0.1875	24.390	14.403	1066.0	21.53	130.08	65	76	24.6				
175.00		0.1875	24.247	14.318	1047.1	21.39	129.32	65	76	24.4				
176.00		0.1875	23.959	14.147	1010.0	21.12	127.78	65	77	48.4				
178.00		0.1875	23.385	13.805	938.6	20.58	124.72	65	77	95.1				
179.50		0.1875	22.954	13.549	887.3	20.18	122.42	65	78	69.8				
180.00		0.1875	22.811	13.463	870.6	20.04	121.66	65	78	23.0				
182.00		0.1875	22.236	13.121	806.0	19.50	118.59	65	78	90.5				

Increment Length: 2 (ft)

											Additional Reinforcing			
Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
184.00		0.1875	21.662	12.780	744.6	18.96	115.53	65	79	88.1				
185.00		0.1875	21.375	12.609	715.1	18.69	114.00	65	79	43.2				
Total Weight										40447.1				444.1

Wind Loading - Shaft

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

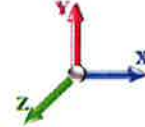
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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 29

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	17.366	19.10	518.41	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.70	17.366	19.10	514.31	0.650	0.000	2.00	12.221	7.94	242.8	0.0	813.9
4.00		1.00	0.70	17.366	19.10	510.20	0.650	0.000	2.00	12.124	7.88	240.9	0.0	807.4
6.00		1.00	0.70	17.366	19.10	506.09	0.650	0.000	2.00	12.027	7.82	238.9	0.0	800.9
8.00		1.00	0.70	17.366	19.10	501.99	0.650	0.000	2.00	11.930	7.75	237.0	0.0	794.4
10.00		1.00	0.70	17.366	19.10	497.88	0.650	0.000	2.00	11.832	7.69	235.1	0.0	787.9
12.00		1.00	0.70	17.366	19.10	493.77	0.650	0.000	2.00	11.735	7.63	233.1	0.0	781.4
14.00		1.00	0.70	17.366	19.10	489.67	0.650	0.000	2.00	11.638	7.56	231.2	0.0	774.9
16.00		1.00	0.70	17.366	19.10	485.56	0.650	0.000	2.00	11.541	7.50	229.3	0.0	768.3
18.00		1.00	0.70	17.366	19.10	481.45	0.650	0.000	2.00	11.444	7.44	227.3	0.0	761.8
20.00		1.00	0.70	17.366	19.10	477.35	0.650	0.000	2.00	11.346	7.38	225.4	0.0	755.3
22.00		1.00	0.70	17.366	19.10	473.24	0.650	0.000	2.00	11.249	7.31	223.5	0.0	748.8
24.00		1.00	0.70	17.366	19.10	469.13	0.650	0.000	2.00	11.152	7.25	221.6	0.0	742.3
26.00		1.00	0.70	17.366	19.10	465.03	0.650	0.000	2.00	11.055	7.19	219.6	0.0	735.8
28.00		1.00	0.70	17.366	19.10	460.92	0.650	0.000	2.00	10.958	7.12	217.7	0.0	729.3
30.00		1.00	0.70	17.381	19.12	457.00	0.650	0.000	2.00	10.860	7.06	215.9	0.0	722.8
32.00		1.00	0.71	17.704	19.47	457.09	0.650	0.000	2.00	10.763	7.00	218.0	0.0	716.2
34.00		1.00	0.73	18.014	19.82	456.88	0.650	0.000	2.00	10.666	6.93	219.8	0.0	709.7
36.00		1.00	0.74	18.310	20.14	456.41	0.650	0.000	2.00	10.569	6.87	221.4	0.0	703.2
38.00		1.00	0.75	18.595	20.45	455.70	0.650	0.000	2.00	10.472	6.81	222.8	0.0	696.7
40.00		1.00	0.76	18.870	20.76	454.77	0.650	0.000	2.00	10.374	6.74	224.0	0.0	690.2
42.00		1.00	0.77	19.135	21.05	453.64	0.650	0.000	2.00	10.277	6.68	225.0	0.0	683.7
44.00		1.00	0.78	19.391	21.33	452.33	0.650	0.000	2.00	10.180	6.62	225.8	0.0	677.2
46.00		1.00	0.79	19.639	21.60	450.84	0.650	0.000	2.00	10.083	6.55	226.5	0.0	670.7
46.17 Bot - Section 2		1.00	0.79	19.659	21.62	450.71	0.650	0.000	0.17	0.836	0.54	18.8	0.0	55.6
48.00		1.00	0.80	19.879	21.87	449.20	0.650	0.000	1.83	9.285	6.04	211.2	0.0	1226.2
50.00		1.00	0.81	20.112	22.12	447.41	0.650	0.000	2.00	10.036	6.52	230.9	0.0	1325.2
52.00		1.00	0.82	20.339	22.37	445.48	0.650	0.000	2.00	9.939	6.46	231.3	0.0	1312.1
54.00 Top - Section 1		1.00	0.83	20.559	22.62	443.42	0.650	0.000	2.00	9.842	6.40	231.5	0.0	1299.1
56.00		1.00	0.84	20.774	22.85	448.08	0.650	0.000	2.00	9.745	6.33	231.6	0.0	648.0
58.00		1.00	0.85	20.983	23.08	445.82	0.650	0.000	2.00	9.648	6.27	231.6	0.0	641.5
60.00		1.00	0.85	21.187	23.31	443.44	0.650	0.000	2.00	9.550	6.21	231.5	0.0	635.0
62.00		1.00	0.86	21.387	23.53	440.97	0.650	0.000	2.00	9.453	6.14	231.3	0.0	628.5
64.00		1.00	0.87	21.582	23.74	438.39	0.650	0.000	2.00	9.356	6.08	231.0	0.0	622.0
66.00		1.00	0.88	21.772	23.95	435.73	0.650	0.000	2.00	9.259	6.02	230.6	0.0	615.4
68.00		1.00	0.89	21.959	24.15	432.97	0.650	0.000	2.00	9.162	5.96	230.2	0.0	608.9
70.00		1.00	0.89	22.142	24.36	430.13	0.650	0.000	2.00	9.065	5.89	229.6	0.0	602.4
72.00		1.00	0.90	22.320	24.55	427.21	0.650	0.000	2.00	8.967	5.83	229.0	0.0	595.9
74.00		1.00	0.91	22.496	24.75	424.21	0.650	0.000	2.00	8.870	5.77	228.3	0.0	589.4
76.00		1.00	0.91	22.668	24.93	421.14	0.650	0.000	2.00	8.773	5.70	227.5	0.0	582.9
78.00		1.00	0.92	22.837	25.12	418.00	0.650	0.000	2.00	8.676	5.64	226.7	0.0	576.4
80.00		1.00	0.93	23.003	25.30	414.78	0.650	0.000	2.00	8.579	5.58	225.7	0.0	569.9
82.00		1.00	0.93	23.165	25.48	411.51	0.650	0.000	2.00	8.481	5.51	224.8	0.0	563.3
84.00		1.00	0.94	23.325	25.66	408.17	0.650	0.000	2.00	8.384	5.45	223.7	0.0	556.8
86.00		1.00	0.95	23.483	25.83	404.76	0.650	0.000	2.00	8.287	5.39	222.6	0.0	550.3
88.00		1.00	0.95	23.638	26.00	401.31	0.650	0.000	2.00	8.190	5.32	221.5	0.0	543.8
90.00		1.00	0.96	23.790	26.17	397.79	0.650	0.000	2.00	8.093	5.26	220.2	0.0	537.3

Wind Loading - Shaft

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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92.00	1.00	0.96	23.940	26.33	394.22	0.650	0.000	2.00	7.995	5.20	219.0	0.0	530.8
94.00	1.00	0.97	24.087	26.50	390.59	0.650	0.000	2.00	7.898	5.13	217.6	0.0	524.3
94.08 Bot - Section 3	1.00	0.97	24.093	26.50	390.44	0.650	0.000	0.08	0.327	0.21	9.0	0.0	21.7
96.00	1.00	0.98	24.233	26.66	386.92	0.650	0.000	1.92	7.596	4.94	210.6	0.0	928.8
98.00	1.00	0.98	24.376	26.81	383.20	0.650	0.000	2.00	7.831	5.09	218.4	0.0	957.3
100.00	1.00	0.99	24.517	26.97	379.42	0.650	0.000	2.00	7.733	5.03	216.9	0.0	945.2
100.17 Top - Section 2	1.00	0.99	24.529	26.98	379.11	0.650	0.000	0.17	0.640	0.42	18.0	0.0	78.2
102.00	1.00	0.99	24.656	27.12	382.00	0.650	0.000	1.83	6.996	4.55	197.3	0.0	398.5
104.00	1.00	1.00	24.793	27.27	378.15	0.650	0.000	2.00	7.539	4.90	213.8	0.0	429.4
106.00	1.00	1.00	24.928	27.42	374.26	0.650	0.000	2.00	7.442	4.84	212.2	0.0	423.8
108.00	1.00	1.01	25.062	27.57	370.33	0.650	0.000	2.00	7.345	4.77	210.6	0.0	418.2
110.00	1.00	1.02	25.194	27.71	366.35	0.650	0.000	2.00	7.247	4.71	208.9	0.0	412.6
112.00	1.00	1.02	25.324	27.86	362.34	0.650	0.000	2.00	7.150	4.65	207.1	0.0	407.0
114.00	1.00	1.03	25.452	28.00	358.28	0.650	0.000	2.00	7.053	4.58	205.4	0.0	401.4
116.00	1.00	1.03	25.579	28.14	354.19	0.650	0.000	2.00	6.956	4.52	203.5	0.0	395.9
118.00	1.00	1.04	25.704	28.27	350.06	0.650	0.000	2.00	6.859	4.46	201.7	0.0	390.3
120.00	1.00	1.04	25.828	28.41	345.89	0.650	0.000	2.00	6.762	4.39	199.8	0.0	384.7
122.00	1.00	1.05	25.950	28.55	341.69	0.650	0.000	2.00	6.664	4.33	197.8	0.0	379.1
124.00	1.00	1.05	26.071	28.68	337.45	0.652 *	0.000	2.00	6.567	4.28	196.5	0.0	373.5
126.00	1.00	1.06	26.190	28.81	333.18	0.655 *	0.000	2.00	6.470	4.24	195.3	0.0	367.9
128.00	1.00	1.06	26.309	28.94	328.88	0.658 *	0.000	2.00	6.373	4.19	194.2	0.0	362.4
130.00	1.00	1.07	26.425	29.07	324.54	0.661 *	0.000	2.00	6.276	4.15	193.0	0.0	356.8
132.00	1.00	1.07	26.541	29.19	320.17	0.664 *	0.000	2.00	6.178	4.10	191.7	0.0	351.2
134.00	1.00	1.07	26.655	29.32	315.77	0.668 *	0.000	2.00	6.081	4.06	190.5	0.0	345.6
136.00	1.00	1.08	26.768	29.44	311.35	0.671 *	0.000	2.00	5.984	4.02	189.2	0.0	340.0
138.00	1.00	1.08	26.880	29.57	306.89	0.675 *	0.000	2.00	5.887	3.97	187.9	0.0	334.5
140.00	1.00	1.09	26.991	29.69	302.40	0.678 *	0.000	2.00	5.790	3.93	186.6	0.0	328.9
142.00	1.00	1.09	27.100	29.81	297.88	0.682 *	0.000	2.00	5.692	3.88	185.2	0.0	323.3
143.75 Bot - Section 4	1.00	1.10	27.195	29.91	293.91	0.686 *	0.000	1.75	4.901	3.36	160.9	0.0	278.3
144.00	1.00	1.10	27.209	29.93	293.34	0.746 *	0.000	0.25	0.702	0.52	25.1	0.0	59.5
144.50 Appurtenance(s)	1.00	1.10	27.236	29.96	292.20	0.747 *	0.000	0.50	1.399	1.05	50.1	0.0	118.5
145.75 RB1	1.00	1.10	27.303	30.03	289.34	0.750 *	0.000	1.25	3.472	2.60	125.1	0.0	294.0
146.00	1.00	1.10	27.316	30.05	288.76	0.752 *	0.000	0.25	0.690	0.52	24.9	0.0	58.4
148.00	1.00	1.11	27.423	30.17	284.17	0.755 *	0.000	2.00	5.464	4.12	199.0	0.0	462.5
148.08 Top - Section 3	1.00	1.11	27.427	30.17	283.97	0.758 *	0.000	0.08	0.226	0.17	8.2	0.0	19.1
149.50 Appurtenance(s)	1.00	1.11	27.502	30.25	284.07	0.756 *	0.000	1.42	3.809	2.88	139.4	0.0	108.7
150.00	1.00	1.11	27.528	30.28	282.92	0.759 *	0.000	0.50	1.333	1.01	49.0	0.0	38.0
151.75 RT1	1.00	1.11	27.620	30.38	278.85	0.762 *	0.000	1.75	4.616	3.52	170.9	0.0	131.8
152.00	1.00	1.11	27.633	30.40	278.27	0.765 *	0.000	0.25	0.653	0.50	24.3	0.0	18.7
154.00	1.00	1.12	27.736	30.51	273.60	0.760 *	0.000	2.00	5.173	3.93	191.9	0.0	147.6
154.50 Appurtenance(s)	1.00	1.12	27.762	30.54	272.43	0.708 *	0.000	0.50	1.278	0.90	44.2	0.0	36.5
155.00 Appurtenance(s)	1.00	1.12	27.787	30.57	271.26	0.709 *	0.000	0.50	1.272	0.90	44.1	0.0	36.3
156.00	1.00	1.12	27.838	30.62	268.91	0.711 *	0.000	1.00	2.526	1.80	88.0	0.0	72.1
158.00	1.00	1.13	27.940	30.73	264.19	0.715 *	0.000	2.00	4.978	3.56	175.0	0.0	142.0
159.50 Appurtenance(s)	1.00	1.13	28.015	30.82	260.63	0.719 *	0.000	1.50	3.670	2.64	130.2	0.0	104.7
160.00	1.00	1.13	28.040	30.84	259.45	0.722 *	0.000	0.50	1.211	0.87	43.2	0.0	34.6
162.00	1.00	1.13	28.140	30.95	254.68	0.725 *	0.000	2.00	4.784	3.47	171.9	0.0	136.5
164.00	1.00	1.14	28.239	31.06	249.89	0.731 *	0.000	2.00	4.687	3.43	170.3	0.0	133.7
164.50 Appurtenance(s)	1.00	1.14	28.264	31.09	248.69	0.735 *	0.000	0.50	1.156	0.85	42.3	0.0	33.0
165.00 Appurtenance(s)	1.00	1.14	28.288	31.12	247.48	0.736 *	0.000	0.50	1.150	0.85	42.2	0.0	32.8
166.00	1.00	1.14	28.337	31.17	245.08	0.650	0.000	1.00	2.283	1.48	74.0	0.0	65.1
168.00	1.00	1.15	28.434	31.28	240.24	0.650	0.000	2.00	4.492	2.92	146.1	0.0	128.1
169.50 Appurtenance(s)	1.00	1.15	28.506	31.36	236.60	0.650	0.000	1.50	3.305	2.15	107.8	0.0	94.2
170.00	1.00	1.15	28.530	31.38	235.38	0.650	0.000	0.50	1.090	0.71	35.6	0.0	31.1
172.00	1.00	1.15	28.626	31.49	230.50	0.650	0.000	2.00	4.298	2.79	140.7	0.0	122.5
174.00	1.00	1.16	28.721	31.59	225.60	0.650	0.000	2.00	4.201	2.73	138.0	0.0	119.7
174.50 Appurtenance(s)	1.00	1.16	28.744	31.62	224.38	0.650	0.000	0.50	1.035	0.67	34.0	0.0	29.5

Wind Loading - Shaft

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 13
	Struct Class: II	



175.00 Appurtenance(s)	1.00	1.16	28.768	31.64	223.15	0.650	0.000	0.50	1.029	0.67	33.9	0.0	29.3
176.00	1.00	1.16	28.815	31.70	220.68	0.650	0.000	1.00	2.040	1.33	67.2	0.0	58.1
178.00	1.00	1.17	28.908	31.80	215.74	0.650	0.000	2.00	4.006	2.60	132.5	0.0	114.1
179.50 Appurtenance(s)	1.00	1.17	28.977	31.87	212.02	0.650	0.000	1.50	2.941	1.91	97.5	0.0	83.8
180.00	1.00	1.17	29.000	31.90	210.78	0.650	0.000	0.50	0.968	0.63	32.1	0.0	27.6
182.00	1.00	1.17	29.092	32.00	205.80	0.650	0.000	2.00	3.812	2.48	126.9	0.0	108.6
184.00	1.00	1.18	29.183	32.10	200.79	0.650	0.000	2.00	3.715	2.41	124.0	0.0	105.8
185.00 Appurtenance(s)	1.00	1.18	29.228	32.15	198.29	0.650	0.000	1.00	1.821	1.18	60.9	0.0	51.8
								Totals:	185.00		18,992.6		48,536.5

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT00707-S-SBA

Site Name: North Easton

Height: 185.00 (ft)

Base Elev: 0.000 (ft)

Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G

Exposure: B

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: II

9/30/2016

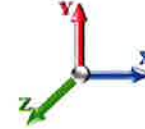
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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 29

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	185.00	Cobra Arms	3	29.228	32.151	0.75	1.00	14.63	1260.00	0.000	0.000	752.33	0.00	0.00
2	185.00	Allen Telecom	6	29.318	32.250	0.75	1.00	2.48	126.00	0.000	2.000	127.71	0.00	255.42
3	185.00	Kathrein 782 11056	3	29.318	32.250	0.67	1.00	0.26	10.44	0.000	2.000	13.48	0.00	26.97
4	185.00	Commscope LNX-6515DS	3	29.318	32.250	0.80	1.00	27.53	181.08	0.000	2.000	1420.43	0.00	2840.87
5	185.00	EMS RR90-17-02DP	3	29.318	32.250	0.79	1.00	10.33	64.80	0.000	2.000	533.19	0.00	1066.38
6	185.00	6' Pole Branch	1	29.228	32.151	1.00	1.00	16.06	360.00	0.000	0.000	826.15	0.00	0.00
7	179.50	6' Pole Branch	1	28.977	31.875	1.00	1.00	46.00	360.00	0.000	0.000	2345.98	0.00	0.00
8	175.00	RFS APXVTM14-C-120	3	28.768	31.644	0.63	0.80	12.02	201.60	0.000	0.000	608.62	0.00	0.00
9	175.00	RFS APXVSP18-C-A20	3	28.768	31.644	0.66	0.80	15.98	205.20	0.000	0.000	808.87	0.00	0.00
10	175.00	Alcatel Lucent 800 MHz	3	28.768	31.644	0.60	0.80	4.48	190.80	0.000	0.000	226.93	0.00	0.00
11	175.00	Cobra Arms	3	28.768	31.644	0.56	0.75	22.78	1440.00	0.000	0.000	1153.44	0.00	0.00
12	175.00	Alcatel Lucent 800 MHz	3	28.768	31.644	0.60	0.80	5.24	63.00	0.000	0.000	265.21	0.00	0.00
13	175.00	Alcatel Lucent	3	28.768	31.644	0.60	0.80	7.29	252.00	0.000	0.000	369.10	0.00	0.00
14	175.00	Alcatel Lucent 1900 MHz	3	28.768	31.644	0.60	0.80	6.84	158.40	0.000	0.000	346.32	0.00	0.00
15	175.00	RFS ACU-A20-N RETs	4	28.768	31.644	0.54	0.80	0.30	4.80	0.000	0.000	15.20	0.00	0.00
16	174.50	7' Pole Branch	1	28.744	31.619	1.00	1.00	15.00	552.00	0.000	0.000	758.85	0.00	0.00
17	169.50	8' Pole Branch	1	28.506	31.357	1.00	1.00	35.00	672.00	0.000	0.000	1755.99	0.00	0.00
18	165.00	DB-B1-6C-12AB-0Z	2	28.288	31.117	0.73	0.80	5.97	51.36	0.000	0.000	297.21	0.00	0.00
19	165.00	RRH4X45-AWS	3	28.288	31.117	0.64	0.80	4.99	230.40	0.000	0.000	248.54	0.00	0.00
20	165.00	SBNHH-1D65B	6	28.288	31.117	0.66	0.80	32.51	288.00	0.000	0.000	1618.55	0.00	0.00
21	165.00	Antel LPA 80063/6CF	2	28.288	31.117	0.75	0.80	14.44	64.80	0.000	0.000	718.84	0.00	0.00
22	165.00	Swedcom SC-E 6014 Rev	4	28.288	31.117	0.78	0.80	10.34	72.00	0.000	0.000	514.61	0.00	0.00
23	165.00	Cobra Arms	3	28.288	31.117	0.56	0.75	22.78	1440.00	0.000	0.000	1134.21	0.00	0.00
24	165.00	RRH2X60-700	3	28.288	31.117	0.61	0.80	6.38	198.00	0.000	0.000	317.84	0.00	0.00
25	164.50	8' Pole Branch	1	28.264	31.090	1.00	1.00	24.24	672.00	0.000	0.000	1205.79	0.00	0.00
26	159.50	9' Pole Branch	1	28.015	30.817	1.00	1.00	45.00	792.00	0.000	0.000	2218.82	0.00	0.00
27	155.00	Powerwave	3	27.787	30.566	0.62	0.80	15.28	190.80	0.000	0.000	747.06	0.00	0.00
28	155.00	Cobra Arms	3	27.787	30.566	0.56	0.75	22.78	1440.00	0.000	0.000	1114.13	0.00	0.00
29	155.00	Powerwave 7770.00	6	27.787	30.566	0.62	0.80	20.59	252.00	0.000	0.000	1007.06	0.00	0.00
30	155.00	Ericsson RRUS-11 RRUs	6	27.787	30.566	0.54	0.80	14.43	396.00	0.000	0.000	705.55	0.00	0.00
31	155.00	Powerwave LGP 21401	6	27.787	30.566	0.54	0.80	3.06	126.00	0.000	0.000	149.42	0.00	0.00
32	155.00	Powerwave LGP21903	6	27.787	30.566	0.67	0.80	1.09	39.60	0.000	0.000	53.24	0.00	0.00
33	155.00	Raycap DC6-48-60-18-8F	1	27.787	30.566	0.80	0.80	1.18	38.16	0.000	0.000	57.51	0.00	0.00
34	154.50	9' Pole Branch	1	27.762	30.538	1.00	1.00	33.48	792.00	0.000	0.000	1635.85	0.00	0.00
35	149.50	10' Pole Branch	1	27.502	30.252	1.00	1.00	50.00	840.00	0.000	0.000	2420.17	0.00	0.00
36	144.50	11' Pole Branch	1	27.236	29.959	1.00	1.00	42.72	864.00	0.000	0.000	2047.79	0.00	0.00
Totals:								14,889.24				30,539.98		

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

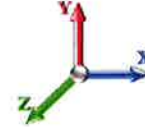


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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 29

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
2.00		242.80	819.21	0.00	0.00
4.00		240.87	861.83	0.00	0.00
6.00		238.93	904.44	0.00	0.00
8.00		237.00	897.93	0.00	0.00
10.00		235.07	891.42	0.00	0.00
12.00		233.14	884.91	0.00	0.00
14.00		231.21	878.39	0.00	0.00
16.00		229.28	871.88	0.00	0.00
18.00		227.35	865.37	0.00	0.00
20.00		225.42	858.85	0.00	0.00
22.00		223.49	852.34	0.00	0.00
24.00		221.56	845.83	0.00	0.00
26.00		219.62	839.32	0.00	0.00
28.00		217.69	832.80	0.00	0.00
30.00		215.94	826.29	0.00	0.00
32.00		217.99	819.78	0.00	0.00
34.00		219.80	813.26	0.00	0.00
36.00		221.38	806.75	0.00	0.00
38.00		222.76	800.24	0.00	0.00
40.00		223.95	793.73	0.00	0.00
42.00		224.97	787.21	0.00	0.00
44.00		225.82	780.70	0.00	0.00
46.00		226.53	774.19	0.00	0.00
46.17		18.80	64.22	0.00	0.00
48.00		211.17	1321.09	0.00	0.00
50.00		230.92	1428.71	0.00	0.00
52.00		231.26	1415.68	0.00	0.00
54.00		231.48	1402.66	0.00	0.00
56.00		231.59	751.55	0.00	0.00
58.00		231.59	745.03	0.00	0.00
60.00		231.49	738.52	0.00	0.00
62.00		231.29	732.01	0.00	0.00
64.00		231.00	725.49	0.00	0.00
66.00		230.62	718.98	0.00	0.00
68.00		230.15	712.47	0.00	0.00
70.00		229.60	705.96	0.00	0.00
72.00		228.98	699.44	0.00	0.00
74.00		228.27	692.93	0.00	0.00
76.00		227.50	686.42	0.00	0.00
78.00		226.66	679.90	0.00	0.00
80.00		225.74	673.39	0.00	0.00
82.00		224.77	666.88	0.00	0.00
84.00		223.72	660.37	0.00	0.00
86.00		222.62	653.85	0.00	0.00
88.00		221.46	647.34	0.00	0.00
90.00		220.24	640.83	0.00	0.00

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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92.00		218.97	634.31	0.00	0.00
94.00		217.64	627.80	0.00	0.00
94.08		9.01	26.02	0.00	0.00
96.00		210.57	1028.03	0.00	0.00
98.00		218.37	1060.88	0.00	0.00
100.00		216.90	1048.78	0.00	0.00
100.17		17.96	86.85	0.00	0.00
102.00		197.34	493.39	0.00	0.00
104.00		213.83	532.89	0.00	0.00
106.00		212.23	527.31	0.00	0.00
108.00		210.58	521.73	0.00	0.00
110.00		208.88	516.14	0.00	0.00
112.00		207.15	510.56	0.00	0.00
114.00		205.37	504.98	0.00	0.00
116.00		203.55	499.40	0.00	0.00
118.00		201.68	493.81	0.00	0.00
120.00		199.78	488.23	0.00	0.00
122.00		197.84	482.65	0.00	0.00
124.00		196.46	477.07	0.00	0.00
126.00		195.32	471.48	0.00	0.00
128.00		194.15	465.90	0.00	0.00
130.00		192.96	460.32	0.00	0.00
132.00		191.74	454.74	0.00	0.00
134.00		190.49	449.16	0.00	0.00
136.00		189.21	443.57	0.00	0.00
138.00		187.91	437.99	0.00	0.00
140.00		186.58	432.41	0.00	0.00
142.00		185.23	426.83	0.00	0.00
143.75		160.91	368.89	0.00	0.00
144.00		25.10	72.40	0.00	0.00
144.50	(1) attachments	2097.93	1008.40	0.00	0.00
145.75		125.08	358.71	0.00	0.00
146.00		24.93	71.35	0.00	0.00
148.00		199.03	566.08	0.00	0.00
148.08		8.25	23.41	0.00	0.00
149.50	(1) attachments	2559.54	1022.07	0.00	0.00
150.00		48.98	63.93	0.00	0.00
151.75		170.95	222.37	0.00	0.00
152.00		24.30	31.59	0.00	0.00
154.00		191.91	251.17	0.00	0.00
154.50	(1) attachments	1680.06	854.36	0.00	0.00
155.00	(31) attachments	3878.09	2544.74	0.00	0.00
156.00		87.99	107.83	0.00	0.00
158.00		174.99	213.57	0.00	0.00
159.50	(1) attachments	2348.98	950.34	0.00	0.00
160.00		43.15	52.43	0.00	0.00
162.00		171.86	207.99	0.00	0.00
164.00		170.27	205.19	0.00	0.00
164.50	(1) attachments	1248.05	722.86	0.00	0.00
165.00	(23) attachments	4891.96	2395.25	0.00	0.00
166.00		73.99	83.24	0.00	0.00
168.00		146.13	164.38	0.00	0.00
169.50	(1) attachments	1863.79	793.45	0.00	0.00
170.00		35.56	40.14	0.00	0.00
172.00		140.75	158.80	0.00	0.00
174.00		138.02	156.01	0.00	0.00
174.50	(1) attachments	792.88	590.57	0.00	0.00

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Struct Class: II	Page: 17
Topography: 1		



175.00	(25) attachments	3827.54	2554.19	0.00	0.00
176.00		67.23	73.09	0.00	0.00
178.00		132.49	144.09	0.00	0.00
179.50	(1) attachments	2443.48	466.23	0.00	0.00
180.00		32.12	35.06	0.00	0.00
182.00		126.86	138.51	0.00	0.00
184.00		124.01	135.71	0.00	0.00
185.00	(19) attachments	3734.18	2069.13	0.00	4189.63
Totals:		49,532.54	71,991.16	0.00	4,189.63

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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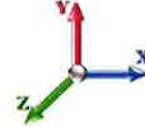


Load Case: 1.2D + 1.6W 101 mph Wind

Iterations 29

Dead Load Factor 1.20

Wind Load Factor 1.60



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)
2.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.027	0.000	17.366	0.00	5.28
4.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.041	0.000	17.366	0.00	7.49
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.041	0.000	17.366	0.00	5.28
6.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.055	0.000	17.366	0.00	14.98
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.055	0.000	17.366	0.00	5.28
8.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.056	0.000	17.366	0.00	14.98
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.056	0.000	17.366	0.00	5.28
10.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.056	0.000	17.366	0.00	14.98
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.056	0.000	17.366	0.00	5.28
12.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	17.366	0.00	14.98
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	17.366	0.00	5.28
14.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	17.366	0.00	14.98
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	17.366	0.00	5.28
16.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	17.366	0.00	14.98
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	17.366	0.00	5.28
18.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.058	0.000	17.366	0.00	14.98
18.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.058	0.000	17.366	0.00	5.28
20.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.058	0.000	17.366	0.00	14.98
20.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.058	0.000	17.366	0.00	5.28
22.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.059	0.000	17.366	0.00	14.98
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	17.366	0.00	5.28
24.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.059	0.000	17.366	0.00	14.98
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	17.366	0.00	5.28
26.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.060	0.000	17.366	0.00	14.98
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	17.366	0.00	5.28
28.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	17.366	0.00	14.98
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	17.366	0.00	5.28
30.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	17.381	0.00	14.98
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	17.381	0.00	5.28
32.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.062	0.000	17.704	0.00	14.98
32.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	17.704	0.00	5.28
34.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.062	0.000	18.014	0.00	14.98
34.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	18.014	0.00	5.28
36.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	18.310	0.00	14.98
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	18.310	0.00	5.28
38.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	18.595	0.00	14.98
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	18.595	0.00	5.28
40.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.064	0.000	18.870	0.00	14.98
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.064	0.000	18.870	0.00	5.28
42.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.065	0.000	19.135	0.00	14.98
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	19.135	0.00	5.28
44.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.065	0.000	19.391	0.00	14.98
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	19.391	0.00	5.28
46.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.066	0.000	19.639	0.00	14.98
46.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	19.639	0.00	5.28
46.17	1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	0.066	0.000	19.659	0.00	1.25
46.17	1 5/8" Hybrid	Yes	0.17	0.000	2.00	0.03	0.00	0.066	0.000	19.659	0.00	0.44

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

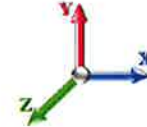
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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 29

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)
48.00	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.066	0.000	19.879	0.00	13.73
48.00	1 5/8" Hybrid	Yes	1.83	0.000	2.00	0.31	0.00	0.066	0.000	19.879	0.00	4.84
50.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.067	0.000	20.112	0.00	14.98
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	20.112	0.00	5.28
52.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	20.339	0.00	14.98
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	20.339	0.00	5.28
54.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	20.559	0.00	14.98
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	20.559	0.00	5.28
56.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	20.774	0.00	14.98
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	20.774	0.00	5.28
58.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.069	0.000	20.983	0.00	14.98
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	20.983	0.00	5.28
60.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.069	0.000	21.187	0.00	14.98
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	21.187	0.00	5.28
62.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.070	0.000	21.387	0.00	14.98
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	21.387	0.00	5.28
64.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.071	0.000	21.582	0.00	14.98
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	21.582	0.00	5.28
66.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.072	0.000	21.772	0.00	14.98
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	21.772	0.00	5.28
68.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.072	0.000	21.959	0.00	14.98
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	21.959	0.00	5.28
70.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.073	0.000	22.142	0.00	14.98
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	22.142	0.00	5.28
72.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.074	0.000	22.320	0.00	14.98
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.074	0.000	22.320	0.00	5.28
74.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.075	0.000	22.496	0.00	14.98
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	22.496	0.00	5.28
76.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.076	0.000	22.668	0.00	14.98
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	22.668	0.00	5.28
78.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.076	0.000	22.837	0.00	14.98
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	22.837	0.00	5.28
80.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.077	0.000	23.003	0.00	14.98
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	23.003	0.00	5.28
82.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.078	0.000	23.165	0.00	14.98
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	23.165	0.00	5.28
84.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.079	0.000	23.325	0.00	14.98
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	23.325	0.00	5.28
86.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.080	0.000	23.483	0.00	14.98
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	23.483	0.00	5.28
88.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.081	0.000	23.638	0.00	14.98
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	23.638	0.00	5.28
90.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.082	0.000	23.790	0.00	14.98
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	23.790	0.00	5.28
92.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.083	0.000	23.940	0.00	14.98
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	23.940	0.00	5.28
94.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.084	0.000	24.087	0.00	14.98

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

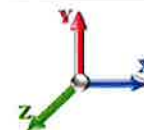
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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 29

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)
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	24.087	0.00	5.28
94.08	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.085	0.000	24.093	0.00	0.62
94.08	1 5/8" Hybrid	Yes	0.08	0.000	2.00	0.01	0.00	0.085	0.000	24.093	0.00	0.22
96.00	1 5/8" Coax	Yes	1.92	0.000	1.98	0.32	0.00	0.085	0.000	24.233	0.00	14.35
96.00	1 5/8" Hybrid	Yes	1.92	0.000	2.00	0.32	0.00	0.085	0.000	24.233	0.00	5.06
98.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.086	0.000	24.376	0.00	14.98
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	24.376	0.00	5.28
100.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.087	0.000	24.517	0.00	14.98
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	24.517	0.00	5.28
100.17	1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	0.088	0.000	24.529	0.00	1.25
100.17	1 5/8" Hybrid	Yes	0.17	0.000	2.00	0.03	0.00	0.088	0.000	24.529	0.00	0.44
102.00	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.087	0.000	24.656	0.00	13.73
102.00	1 5/8" Hybrid	Yes	1.83	0.000	2.00	0.31	0.00	0.087	0.000	24.656	0.00	4.84
104.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.088	0.000	24.793	0.00	14.98
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	24.793	0.00	5.28
106.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.089	0.000	24.928	0.00	14.98
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	24.928	0.00	5.28
108.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.090	0.000	25.062	0.00	14.98
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	25.062	0.00	5.28
110.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.092	0.000	25.194	0.00	14.98
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	25.194	0.00	5.28
112.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.093	0.000	25.324	0.00	14.98
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	25.324	0.00	5.28
114.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.094	0.000	25.452	0.00	14.98
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.094	0.000	25.452	0.00	5.28
116.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.095	0.000	25.579	0.00	14.98
116.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	25.579	0.00	5.28
118.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.097	0.000	25.704	0.00	14.98
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.097	0.000	25.704	0.00	5.28
120.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.098	0.000	25.828	0.00	14.98
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.098	0.000	25.828	0.00	5.28
122.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.100	0.000	25.950	0.00	14.98
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.100	0.000	25.950	0.00	5.28
124.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.101	1.003	26.071	0.00	14.98
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.101	1.003	26.071	0.00	5.28
126.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.103	1.008	26.190	0.00	14.98
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.103	1.008	26.190	0.00	5.28
128.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.104	1.012	26.309	0.00	14.98
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.104	1.012	26.309	0.00	5.28
130.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.106	1.017	26.425	0.00	14.98
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.106	1.017	26.425	0.00	5.28
132.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.107	1.022	26.541	0.00	14.98
132.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.107	1.022	26.541	0.00	5.28
134.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.109	1.027	26.655	0.00	14.98
134.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.027	26.655	0.00	5.28
136.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.111	1.033	26.768	0.00	14.98
136.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.033	26.768	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

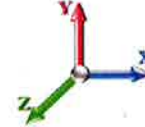
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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 29

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)
138.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.113	1.038	26.880	0.00	14.98
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.038	26.880	0.00	5.28
140.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.115	1.044	26.991	0.00	14.98
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.115	1.044	26.991	0.00	5.28
142.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.117	1.050	27.100	0.00	14.98
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	27.100	0.00	5.28
143.75	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.118	1.055	27.195	0.00	13.10
143.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.118	1.055	27.195	0.00	4.62
144.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.149	1.148	27.209	0.00	1.87
144.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.149	1.148	27.209	0.00	0.66
144.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.149	1.148	27.209	0.00	0.00
144.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.150	1.150	27.236	0.00	3.74
144.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.150	1.150	27.236	0.00	1.32
144.50	1" Reinforcing plate	Yes	0.50	0.000	1.00	0.04	0.00	0.150	1.150	27.236	0.00	0.00
145.75	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.151	1.153	27.303	0.00	9.36
145.75	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.151	1.153	27.303	0.00	3.30
145.75	1" Reinforcing plate	Yes	1.25	0.000	1.00	0.10	0.00	0.151	1.153	27.303	0.00	0.00
146.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.152	1.156	27.316	0.00	1.87
146.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.152	1.156	27.316	0.00	0.66
146.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.152	1.156	27.316	0.00	0.00
148.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.154	1.161	27.423	0.00	14.98
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.154	1.161	27.423	0.00	5.28
148.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.154	1.161	27.423	0.00	0.00
148.08	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.155	1.165	27.427	0.00	0.62
148.08	1 5/8" Hybrid	Yes	0.08	0.000	2.00	0.01	0.00	0.155	1.165	27.427	0.00	0.22
148.08	1" Reinforcing plate	Yes	0.08	0.000	1.00	0.01	0.00	0.155	1.165	27.427	0.00	0.00
149.50	1 5/8" Coax	Yes	1.42	0.000	1.98	0.23	0.00	0.154	1.163	27.502	0.00	10.61
149.50	1 5/8" Hybrid	Yes	1.42	0.000	2.00	0.24	0.00	0.154	1.163	27.502	0.00	3.74
149.50	1" Reinforcing plate	Yes	1.42	0.000	1.00	0.12	0.00	0.154	1.163	27.502	0.00	0.00
150.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.156	1.167	27.528	0.00	3.74
150.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.156	1.167	27.528	0.00	1.32
150.00	1" Reinforcing plate	Yes	0.50	0.000	1.00	0.04	0.00	0.156	1.167	27.528	0.00	0.00
151.75	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.157	1.172	27.620	0.00	13.10
151.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.157	1.172	27.620	0.00	4.62
151.75	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.157	1.172	27.620	0.00	0.00
152.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.159	1.176	27.633	0.00	1.87
152.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.159	1.176	27.633	0.00	0.66
152.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.159	1.176	27.633	0.00	0.00
154.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.156	1.169	27.736	0.00	14.98
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.156	1.169	27.736	0.00	5.28
154.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.156	1.169	27.736	0.00	0.00
154.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.130	1.089	27.762	0.00	3.74
154.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.130	1.089	27.762	0.00	1.32
155.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.130	1.091	27.787	0.00	3.74
155.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.130	1.091	27.787	0.00	1.32
156.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.131	1.094	27.838	0.00	7.49
156.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.131	1.094	27.838	0.00	2.64

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

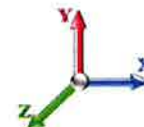
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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.60



Iterations 29

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)
158.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.133	1.100	27.940	0.00	14.98
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.133	1.100	27.940	0.00	5.28
159.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.136	1.107	28.015	0.00	11.23
159.50	1 5/8" Hybrid	Yes	1.50	0.000	2.00	0.25	0.00	0.136	1.107	28.015	0.00	3.96
160.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.137	1.111	28.040	0.00	3.74
160.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.137	1.111	28.040	0.00	1.32
162.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.139	1.116	28.140	0.00	14.98
162.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.139	1.116	28.140	0.00	5.28
164.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.142	1.125	28.239	0.00	14.98
164.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.142	1.125	28.239	0.00	5.28
164.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.143	1.130	28.264	0.00	3.74
164.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.143	1.130	28.264	0.00	1.32
165.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.144	1.132	28.288	0.00	3.74
165.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.144	1.132	28.288	0.00	1.32
166.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.072	0.000	28.337	0.00	7.49
168.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.073	0.000	28.434	0.00	14.98
169.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.075	0.000	28.506	0.00	11.23
170.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.076	0.000	28.530	0.00	3.74
172.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.077	0.000	28.626	0.00	14.98
174.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.079	0.000	28.721	0.00	14.98
174.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.080	0.000	28.744	0.00	3.74
175.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.080	0.000	28.768	0.00	3.74
176.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.081	0.000	28.815	0.00	7.49
178.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.082	0.000	28.908	0.00	14.98
179.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.084	0.000	28.977	0.00	11.23
180.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.085	0.000	29.000	0.00	3.74
182.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.087	0.000	29.092	0.00	14.98
184.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.089	0.000	29.183	0.00	14.98
185.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.091	0.000	29.228	0.00	7.49
Totals:											0.0	1,798.4

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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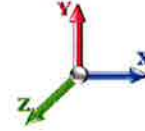


Load Case: 1.2D + 1.6W 101 mph Wind

Iterations: 29

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	-71.96	-49.57	0.00	-6955.0	0.00	6955.08	6186.26	3093.13	18350.4	9188.88	0.00	0.000	0.000	0.769
2.00	-71.09	-49.40	0.00	-6855.9	0.00	6855.94	6161.28	3080.64	18129.8	9078.39	0.01	-0.060	0.000	0.767
4.00	-70.18	-49.23	0.00	-6757.1	0.00	6757.14	6135.91	3067.96	17909.2	8967.93	0.05	-0.120	0.000	0.765
6.00	-69.22	-49.07	0.00	-6658.6	0.00	6658.67	6110.15	3055.07	17688.7	8857.51	0.12	-0.181	0.000	0.763
8.00	-68.27	-48.90	0.00	-6560.5	0.00	6560.54	6084.00	3042.00	17468.3	8747.14	0.21	-0.243	0.000	0.762
10.00	-67.33	-48.74	0.00	-6462.7	0.00	6462.74	6057.45	3028.73	17248.0	8636.84	0.32	-0.305	0.000	0.760
12.00	-66.39	-48.57	0.00	-6365.2	0.00	6365.27	6030.52	3015.26	17027.9	8526.61	0.46	-0.368	0.000	0.758
14.00	-65.46	-48.41	0.00	-6268.1	0.00	6268.14	6003.19	3001.60	16807.9	8416.48	0.63	-0.431	0.000	0.756
16.00	-64.54	-48.24	0.00	-6171.3	0.00	6171.33	5975.47	2987.74	16588.2	8306.46	0.83	-0.495	0.000	0.754
18.00	-63.62	-48.08	0.00	-6074.8	0.00	6074.85	5947.37	2973.68	16368.7	8196.55	1.05	-0.560	0.000	0.752
20.00	-62.71	-47.92	0.00	-5978.6	0.00	5978.69	5918.87	2959.43	16149.5	8086.79	1.30	-0.625	0.000	0.750
22.00	-61.80	-47.75	0.00	-5882.8	0.00	5882.86	5889.98	2944.99	15930.6	7977.17	1.57	-0.691	0.000	0.748
24.00	-60.91	-47.59	0.00	-5787.3	0.00	5787.36	5860.70	2930.35	15712.0	7867.72	1.88	-0.758	0.000	0.746
26.00	-60.01	-47.43	0.00	-5692.1	0.00	5692.17	5831.03	2915.51	15493.8	7758.44	2.21	-0.825	0.000	0.744
28.00	-59.13	-47.27	0.00	-5597.3	0.00	5597.31	5800.97	2900.48	15276.0	7649.36	2.57	-0.893	0.000	0.742
30.00	-58.25	-47.11	0.00	-5502.7	0.00	5502.76	5770.52	2885.26	15058.5	7540.48	2.96	-0.962	0.000	0.740
32.00	-57.38	-46.95	0.00	-5408.5	0.00	5408.54	5739.67	2869.84	14841.5	7431.82	3.38	-1.031	0.000	0.738
34.00	-56.51	-46.79	0.00	-5314.6	0.00	5314.64	5708.44	2854.22	14625.0	7323.39	3.83	-1.101	0.000	0.736
36.00	-55.65	-46.62	0.00	-5221.0	0.00	5221.07	5676.81	2838.41	14409.0	7215.22	4.30	-1.172	0.000	0.734
38.00	-54.80	-46.45	0.00	-5127.8	0.00	5127.83	5644.80	2822.40	14193.5	7107.30	4.81	-1.243	0.000	0.731
40.00	-53.95	-46.27	0.00	-5034.9	0.00	5034.94	5612.39	2806.20	13978.5	6999.66	5.35	-1.315	0.000	0.729
42.00	-53.11	-46.10	0.00	-4942.4	0.00	4942.40	5579.60	2789.80	13764.1	6892.30	5.91	-1.388	0.000	0.727
44.00	-52.27	-45.92	0.00	-4850.2	0.00	4850.21	5546.41	2773.20	13550.3	6785.25	6.51	-1.461	0.000	0.725
46.00	-51.47	-45.71	0.00	-4758.3	0.00	4758.37	5512.83	2756.41	13337.2	6678.52	7.14	-1.536	0.000	0.722
46.17	-51.38	-45.72	0.00	-4750.7	0.00	4750.75	5510.01	2755.01	13319.4	6669.64	7.19	-1.542	0.000	0.722
48.00	-50.01	-45.54	0.00	-4666.9	0.00	4666.93	5478.86	2739.43	13124.7	6572.12	7.80	-1.611	0.000	0.720
50.00	-48.53	-45.33	0.00	-4575.8	0.00	4575.85	5444.50	2722.25	12912.9	6466.06	8.49	-1.686	0.000	0.717
52.00	-47.06	-45.12	0.00	-4485.1	0.00	4485.19	5409.75	2704.87	12701.8	6360.36	9.21	-1.763	0.000	0.714
54.00	-45.60	-44.91	0.00	-4394.9	0.00	4394.95	5427.99	2713.99	12812.2	6415.65	9.97	-1.840	0.000	0.694
56.00	-44.80	-44.71	0.00	-4305.1	0.00	4305.14	5393.05	2696.53	12601.5	6310.13	10.76	-1.918	0.000	0.691
58.00	-44.00	-44.51	0.00	-4215.7	0.00	4215.73	5357.72	2678.86	12391.5	6204.99	11.58	-1.993	0.000	0.688
60.00	-43.21	-44.31	0.00	-4126.7	0.00	4126.70	5322.01	2661.00	12182.3	6100.24	12.43	-2.069	0.000	0.685
62.00	-42.43	-44.11	0.00	-4038.0	0.00	4038.08	5285.90	2642.95	11974.0	5995.90	13.31	-2.146	0.000	0.682
64.00	-41.66	-43.91	0.00	-3949.8	0.00	3949.86	5249.40	2624.70	11766.4	5891.98	14.23	-2.223	0.000	0.679
66.00	-40.89	-43.71	0.00	-3862.0	0.00	3862.05	5212.50	2606.25	11559.8	5788.50	15.18	-2.301	0.000	0.675
68.00	-40.13	-43.50	0.00	-3774.6	0.00	3774.64	5175.22	2587.61	11354.0	5685.46	16.16	-2.380	0.000	0.672
70.00	-39.37	-43.30	0.00	-3687.6	0.00	3687.64	5137.55	2568.77	11149.2	5582.89	17.17	-2.459	0.000	0.668
72.00	-38.62	-43.09	0.00	-3601.0	0.00	3601.05	5099.49	2549.74	10945.3	5480.80	18.22	-2.539	0.000	0.665
74.00	-37.88	-42.89	0.00	-3514.8	0.00	3514.86	5061.03	2530.52	10742.4	5379.19	19.30	-2.620	0.000	0.661
76.00	-37.14	-42.68	0.00	-3429.0	0.00	3429.09	5022.19	2511.09	10540.5	5278.10	20.42	-2.702	0.000	0.657
78.00	-36.41	-42.47	0.00	-3343.7	0.00	3343.73	4982.95	2491.47	10339.6	5177.52	21.57	-2.784	0.000	0.653
80.00	-35.69	-42.27	0.00	-3258.7	0.00	3258.78	4943.32	2471.66	10139.8	5077.48	22.75	-2.867	0.000	0.649
82.00	-34.97	-42.06	0.00	-3174.2	0.00	3174.25	4903.30	2451.65	9941.18	4977.98	23.97	-2.951	0.000	0.645
84.00	-34.26	-41.85	0.00	-3090.1	0.00	3090.13	4862.90	2431.45	9743.60	4879.04	25.22	-3.035	0.000	0.641
86.00	-33.56	-41.65	0.00	-3006.4	0.00	3006.42	4822.10	2411.05	9547.17	4780.68	26.51	-3.120	0.000	0.636
88.00	-32.86	-41.44	0.00	-2923.1	0.00	2923.13	4780.91	2390.45	9351.91	4682.91	27.84	-3.205	0.000	0.631
90.00	-32.17	-41.23	0.00	-2840.2	0.00	2840.26	4739.33	2369.66	9157.86	4585.74	29.20	-3.292	0.000	0.626
92.00	-31.49	-41.02	0.00	-2757.8	0.00	2757.80	4697.35	2348.68	8965.05	4489.19	30.60	-3.379	0.000	0.621

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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94.00	-30.85	-40.79	0.00	-2675.7	0.00	2675.75	4654.99	2327.50	8773.49	4393.27	32.03	-3.466	0.000	0.616
94.08	-30.79	-40.81	0.00	-2672.3	0.00	2672.35	4653.22	2326.61	8765.54	4389.28	32.09	-3.470	0.000	0.616
96.00	-29.71	-40.58	0.00	-2594.1	0.00	2594.14	4612.24	2306.12	8583.22	4297.99	33.50	-3.554	0.000	0.610
98.00	-28.61	-40.34	0.00	-2512.9	0.00	2512.98	4569.09	2284.55	8394.27	4203.37	35.01	-3.643	0.000	0.604
100.00	-27.54	-40.08	0.00	-2432.3	0.00	2432.31	4525.56	2262.78	8206.66	4109.43	36.55	-3.732	0.000	0.598
100.17	-27.42	-40.08	0.00	-2425.6	0.00	2425.63	3757.39	1878.70	6942.18	3476.25	36.68	-3.740	0.000	0.706
102.00	-26.88	-39.89	0.00	-2352.1	0.00	2352.16	3727.29	1863.64	6805.30	3407.71	38.14	-3.822	0.000	0.698
104.00	-26.29	-39.69	0.00	-2272.3	0.00	2272.38	3694.07	1847.03	6656.80	3333.35	39.76	-3.922	0.000	0.689
106.00	-25.71	-39.48	0.00	-2193.0	0.00	2193.01	3660.46	1830.23	6509.18	3259.43	41.42	-4.022	0.000	0.680
108.00	-25.14	-39.28	0.00	-2114.0	0.00	2114.05	3626.46	1813.23	6362.47	3185.96	43.13	-4.122	0.000	0.671
110.00	-24.57	-39.08	0.00	-2035.4	0.00	2035.49	3592.07	1796.03	6216.70	3112.97	44.87	-4.223	0.000	0.661
112.00	-24.01	-38.87	0.00	-1957.3	0.00	1957.34	3557.29	1778.64	6071.91	3040.47	46.66	-4.324	0.000	0.651
114.00	-23.45	-38.67	0.00	-1879.5	0.00	1879.59	3522.12	1761.06	5928.11	2968.46	48.50	-4.425	0.000	0.640
116.00	-22.90	-38.47	0.00	-1802.2	0.00	1802.25	3486.55	1743.28	5785.33	2896.97	50.37	-4.525	0.000	0.629
118.00	-22.36	-38.27	0.00	-1725.3	0.00	1725.31	3450.60	1725.30	5643.61	2826.00	52.29	-4.626	0.000	0.617
120.00	-21.82	-38.07	0.00	-1648.7	0.00	1648.77	3414.26	1707.13	5502.97	2755.57	54.24	-4.727	0.000	0.605
122.00	-21.29	-37.87	0.00	-1572.6	0.00	1572.63	3377.52	1688.76	5363.43	2685.70	56.24	-4.828	0.000	0.592
124.00	-20.77	-37.67	0.00	-1496.8	0.00	1496.89	3340.40	1670.20	5225.04	2616.40	58.29	-4.928	0.000	0.579
126.00	-20.25	-37.47	0.00	-1421.5	0.00	1421.56	3302.88	1651.44	5087.80	2547.68	60.37	-5.027	0.000	0.565
128.00	-19.74	-37.27	0.00	-1346.6	0.00	1346.62	3264.97	1632.49	4951.76	2479.56	62.50	-5.126	0.000	0.550
130.00	-19.24	-37.07	0.00	-1272.0	0.00	1272.08	3220.40	1610.20	4807.57	2407.36	64.66	-5.224	0.000	0.535
132.00	-18.74	-36.87	0.00	-1197.9	0.00	1197.95	3169.61	1584.80	4656.37	2331.65	66.87	-5.321	0.000	0.520
134.00	-18.25	-36.66	0.00	-1124.2	0.00	1124.22	3118.82	1559.41	4507.59	2257.15	69.12	-5.416	0.000	0.504
136.00	-17.77	-36.46	0.00	-1050.8	0.00	1050.89	3068.04	1534.02	4361.23	2183.86	71.40	-5.510	0.000	0.488
138.00	-17.29	-36.26	0.00	-977.97	0.00	977.97	3017.25	1508.63	4217.28	2111.78	73.73	-5.602	0.000	0.469
140.00	-16.82	-36.06	0.00	-905.45	0.00	905.45	2966.47	1483.23	4075.75	2040.91	76.09	-5.691	0.000	0.450
142.00	-16.37	-35.85	0.00	-833.33	0.00	833.33	2915.68	1457.84	3936.64	1971.24	78.49	-5.779	0.000	0.429
143.75	-15.99	-35.67	0.00	-770.59	0.00	770.59	2871.25	1435.62	3816.89	1911.28	80.62	-5.853	0.000	0.409
144.00	-15.91	-35.64	0.00	-761.67	0.00	761.67	2864.90	1432.45	3799.94	1902.79	80.93	-5.863	0.000	0.406
144.50	-15.10	-33.46	0.00	-743.85	0.00	743.85	2852.20	1426.10	3766.14	1885.87	81.54	-5.884	0.000	0.400
145.75	-14.74	-33.31	0.00	-702.02	0.00	702.02	2820.46	1410.23	3682.30	1843.89	83.09	-5.935	0.000	0.253
146.00	-14.66	-33.28	0.00	-693.70	0.00	693.70	2814.11	1407.06	3665.65	1835.55	83.40	-5.942	0.000	0.251
148.00	-14.10	-33.03	0.00	-627.14	0.00	627.14	2763.33	1381.66	3533.78	1769.52	85.89	-5.992	0.000	0.234
148.08	-14.07	-33.02	0.00	-624.38	0.00	624.38	1152.50	576.25	1508.33	755.29	86.00	-5.995	0.000	0.291
149.50	-13.30	-30.38	0.00	-577.60	0.00	577.60	1145.31	572.66	1479.63	740.91	87.78	-6.029	0.000	0.391
150.00	-13.23	-30.33	0.00	-562.41	0.00	562.41	1142.73	571.37	1469.50	735.84	88.41	-6.046	0.000	0.383
151.75	-13.01	-30.15	0.00	-509.33	0.00	509.33	1133.50	566.75	1434.03	718.08	90.63	-6.103	0.000	0.352
151.75	-13.01	-30.15	0.00	-509.33	0.00	509.33	1133.50	566.75	1434.03	718.08	90.63	-6.103	0.000	0.352
152.00	-12.94	-30.13	0.00	-501.79	0.00	501.79	1132.15	566.08	1428.97	715.55	90.95	-6.111	0.000	0.716
154.00	-12.67	-29.93	0.00	-441.53	0.00	441.53	1121.19	560.59	1388.46	695.26	93.54	-6.235	0.000	0.649
154.50	-11.99	-28.18	0.00	-426.56	0.00	426.56	1118.38	559.19	1378.34	690.19	94.19	-6.265	0.000	0.631
155.00	-9.87	-24.05	0.00	-412.47	0.00	412.47	1115.56	557.78	1368.22	685.13	94.85	-6.294	0.000	0.613
156.00	-9.73	-23.96	0.00	-388.42	0.00	388.42	1109.83	554.91	1348.00	675.00	96.17	-6.352	0.000	0.586
158.00	-9.50	-23.78	0.00	-340.50	0.00	340.50	1098.08	549.04	1307.61	654.78	98.85	-6.459	0.000	0.531
159.50	-8.81	-21.35	0.00	-304.82	0.00	304.82	1089.01	544.51	1277.39	639.64	100.89	-6.534	0.000	0.486
160.00	-8.74	-21.31	0.00	-294.15	0.00	294.15	1085.94	542.97	1267.33	634.61	101.57	-6.559	0.000	0.473
162.00	-8.52	-21.13	0.00	-251.53	0.00	251.53	1073.41	536.70	1227.17	614.50	104.34	-6.649	0.000	0.419
164.00	-8.32	-20.94	0.00	-209.28	0.00	209.28	1060.49	530.24	1187.18	594.47	107.13	-6.731	0.000	0.361
164.50	-7.74	-19.62	0.00	-198.81	0.00	198.81	1057.19	528.60	1177.21	589.48	107.84	-6.750	0.000	0.346
165.00	-5.93	-14.48	0.00	-189.00	0.00	189.00	1053.88	526.94	1167.25	584.49	108.55	-6.768	0.000	0.330
166.00	-5.85	-14.40	0.00	-174.52	0.00	174.52	1047.17	523.59	1147.37	574.54	109.96	-6.803	0.000	0.310
168.00	-5.69	-14.24	0.00	-145.71	0.00	145.71	1033.47	516.74	1107.78	554.71	112.82	-6.868	0.000	0.269
169.50	-5.12	-12.30	0.00	-124.35	0.00	124.35	1022.94	511.47	1078.24	539.92	114.98	-6.911	0.000	0.236
170.00	-5.07	-12.26	0.00	-118.20	0.00	118.20	1019.38	509.69	1068.43	535.01	115.71	-6.924	0.000	0.226
172.00	-4.92	-12.11	0.00	-93.67	0.00	93.67	1004.89	502.45	1029.34	515.44	118.61	-6.973	0.000	0.187
174.00	-4.78	-11.95	0.00	-69.45	0.00	69.45	990.02	495.01	990.56	496.02	121.53	-7.013	0.000	0.145
174.50	-4.29	-11.10	0.00	-63.48	0.00	63.48	986.24	493.12	980.92	491.19	122.27	-7.021	0.000	0.134

Calculated Forces

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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175.00	-2.22	-6.99	0.00	-57.93	0.00	57.93	982.43	491.22	971.29	486.37	123.00	-7.029	0.000	0.122
176.00	-2.16	-6.91	0.00	-50.94	0.00	50.94	974.75	487.37	952.10	476.76	124.47	-7.044	0.000	0.109
178.00	-2.03	-6.76	0.00	-37.12	0.00	37.12	959.09	479.55	914.00	457.68	127.42	-7.069	0.000	0.083
179.50	-1.86	-4.28	0.00	-26.98	0.00	26.98	947.09	473.55	885.67	443.49	129.64	-7.084	0.000	0.063
180.00	-1.83	-4.24	0.00	-24.84	0.00	24.84	943.04	471.52	876.28	438.79	130.38	-7.088	0.000	0.059
182.00	-1.71	-4.10	0.00	-16.35	0.00	16.35	926.61	463.30	838.97	420.11	133.35	-7.101	0.000	0.041
184.00	-1.59	-3.96	0.00	-8.15	0.00	8.15	909.78	454.89	802.09	401.64	136.32	-7.110	0.000	0.022
185.00	0.00	-3.73	0.00	-4.19	0.00	4.19	901.22	450.61	783.83	392.50	137.80	-7.112	0.000	0.011

Wind Loading - Shaft

Structure: CT00707-S-SBA
Site Name: North Easton
Height: 185.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

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

9/30/2016

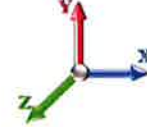
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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 28

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	17.366	19.10	518.41	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.70	17.366	19.10	514.31	0.650	0.000	2.00	12.221	7.94	242.8	0.0	610.5
4.00		1.00	0.70	17.366	19.10	510.20	0.650	0.000	2.00	12.124	7.88	240.9	0.0	605.6
6.00		1.00	0.70	17.366	19.10	506.09	0.650	0.000	2.00	12.027	7.82	238.9	0.0	600.7
8.00		1.00	0.70	17.366	19.10	501.99	0.650	0.000	2.00	11.930	7.75	237.0	0.0	595.8
10.00		1.00	0.70	17.366	19.10	497.88	0.650	0.000	2.00	11.832	7.69	235.1	0.0	590.9
12.00		1.00	0.70	17.366	19.10	493.77	0.650	0.000	2.00	11.735	7.63	233.1	0.0	586.0
14.00		1.00	0.70	17.366	19.10	489.67	0.650	0.000	2.00	11.638	7.56	231.2	0.0	581.1
16.00		1.00	0.70	17.366	19.10	485.56	0.650	0.000	2.00	11.541	7.50	229.3	0.0	576.3
18.00		1.00	0.70	17.366	19.10	481.45	0.650	0.000	2.00	11.444	7.44	227.3	0.0	571.4
20.00		1.00	0.70	17.366	19.10	477.35	0.650	0.000	2.00	11.346	7.38	225.4	0.0	566.5
22.00		1.00	0.70	17.366	19.10	473.24	0.650	0.000	2.00	11.249	7.31	223.5	0.0	561.6
24.00		1.00	0.70	17.366	19.10	469.13	0.650	0.000	2.00	11.152	7.25	221.6	0.0	556.7
26.00		1.00	0.70	17.366	19.10	465.03	0.650	0.000	2.00	11.055	7.19	219.6	0.0	551.8
28.00		1.00	0.70	17.366	19.10	460.92	0.650	0.000	2.00	10.958	7.12	217.7	0.0	547.0
30.00		1.00	0.70	17.381	19.12	457.00	0.650	0.000	2.00	10.860	7.06	215.9	0.0	542.1
32.00		1.00	0.71	17.704	19.47	457.09	0.650	0.000	2.00	10.763	7.00	218.0	0.0	537.2
34.00		1.00	0.73	18.014	19.82	456.88	0.650	0.000	2.00	10.666	6.93	219.8	0.0	532.3
36.00		1.00	0.74	18.310	20.14	456.41	0.650	0.000	2.00	10.569	6.87	221.4	0.0	527.4
38.00		1.00	0.75	18.595	20.45	455.70	0.650	0.000	2.00	10.472	6.81	222.8	0.0	522.5
40.00		1.00	0.76	18.870	20.76	454.77	0.650	0.000	2.00	10.374	6.74	224.0	0.0	517.6
42.00		1.00	0.77	19.135	21.05	453.64	0.650	0.000	2.00	10.277	6.68	225.0	0.0	512.8
44.00		1.00	0.78	19.391	21.33	452.33	0.650	0.000	2.00	10.180	6.62	225.8	0.0	507.9
46.00		1.00	0.79	19.639	21.60	450.84	0.650	0.000	2.00	10.083	6.55	226.5	0.0	503.0
46.17 Bot - Section 2		1.00	0.79	19.659	21.62	450.71	0.650	0.000	0.17	0.836	0.54	18.8	0.0	41.7
48.00		1.00	0.80	19.879	21.87	449.20	0.650	0.000	1.83	9.285	6.04	211.2	0.0	919.6
50.00		1.00	0.81	20.112	22.12	447.41	0.650	0.000	2.00	10.036	6.52	230.9	0.0	993.9
52.00		1.00	0.82	20.339	22.37	445.48	0.650	0.000	2.00	9.939	6.46	231.3	0.0	984.1
54.00 Top - Section 1		1.00	0.83	20.559	22.62	443.42	0.650	0.000	2.00	9.842	6.40	231.5	0.0	974.3
56.00		1.00	0.84	20.774	22.85	448.08	0.650	0.000	2.00	9.745	6.33	231.6	0.0	486.0
58.00		1.00	0.85	20.983	23.08	445.82	0.650	0.000	2.00	9.648	6.27	231.6	0.0	481.1
60.00		1.00	0.85	21.187	23.31	443.44	0.650	0.000	2.00	9.550	6.21	231.5	0.0	476.2
62.00		1.00	0.86	21.387	23.53	440.97	0.650	0.000	2.00	9.453	6.14	231.3	0.0	471.4
64.00		1.00	0.87	21.582	23.74	438.39	0.650	0.000	2.00	9.356	6.08	231.0	0.0	466.5
66.00		1.00	0.88	21.772	23.95	435.73	0.650	0.000	2.00	9.259	6.02	230.6	0.0	461.6
68.00		1.00	0.89	21.959	24.15	432.97	0.650	0.000	2.00	9.162	5.96	230.2	0.0	456.7
70.00		1.00	0.89	22.142	24.36	430.13	0.650	0.000	2.00	9.065	5.89	229.6	0.0	451.8
72.00		1.00	0.90	22.320	24.55	427.21	0.650	0.000	2.00	8.967	5.83	229.0	0.0	446.9
74.00		1.00	0.91	22.496	24.75	424.21	0.650	0.000	2.00	8.870	5.77	228.3	0.0	442.0
76.00		1.00	0.91	22.668	24.93	421.14	0.650	0.000	2.00	8.773	5.70	227.5	0.0	437.2
78.00		1.00	0.92	22.837	25.12	418.00	0.650	0.000	2.00	8.676	5.64	226.7	0.0	432.3
80.00		1.00	0.93	23.003	25.30	414.78	0.650	0.000	2.00	8.579	5.58	225.7	0.0	427.4
82.00		1.00	0.93	23.165	25.48	411.51	0.650	0.000	2.00	8.481	5.51	224.8	0.0	422.5
84.00		1.00	0.94	23.325	25.66	408.17	0.650	0.000	2.00	8.384	5.45	223.7	0.0	417.6
86.00		1.00	0.95	23.483	25.83	404.76	0.650	0.000	2.00	8.287	5.39	222.6	0.0	412.7
88.00		1.00	0.95	23.638	26.00	401.31	0.650	0.000	2.00	8.190	5.32	221.5	0.0	407.9
90.00		1.00	0.96	23.790	26.17	397.79	0.650	0.000	2.00	8.093	5.26	220.2	0.0	403.0

Wind Loading - Shaft

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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92.00	1.00	0.96	23.940	26.33	394.22	0.650	0.000	2.00	7.995	5.20	219.0	0.0	398.1
94.00	1.00	0.97	24.087	26.50	390.59	0.650	0.000	2.00	7.898	5.13	217.6	0.0	393.2
94.08 Bot - Section 3	1.00	0.97	24.093	26.50	390.44	0.650	0.000	0.08	0.327	0.21	9.0	0.0	16.3
96.00	1.00	0.98	24.233	26.66	386.92	0.650	0.000	1.92	7.596	4.94	210.6	0.0	696.6
98.00	1.00	0.98	24.376	26.81	383.20	0.650	0.000	2.00	7.831	5.09	218.4	0.0	718.0
100.00	1.00	0.99	24.517	26.97	379.42	0.650	0.000	2.00	7.733	5.03	216.9	0.0	708.9
100.17 Top - Section 2	1.00	0.99	24.529	26.98	379.11	0.650	0.000	0.17	0.640	0.42	18.0	0.0	58.7
102.00	1.00	0.99	24.656	27.12	382.00	0.650	0.000	1.83	6.996	4.55	197.3	0.0	298.9
104.00	1.00	1.00	24.793	27.27	378.15	0.650	0.000	2.00	7.539	4.90	213.8	0.0	322.0
106.00	1.00	1.00	24.928	27.42	374.26	0.650	0.000	2.00	7.442	4.84	212.2	0.0	317.8
108.00	1.00	1.01	25.062	27.57	370.33	0.650	0.000	2.00	7.345	4.77	210.6	0.0	313.6
110.00	1.00	1.02	25.194	27.71	366.35	0.650	0.000	2.00	7.247	4.71	208.9	0.0	309.5
112.00	1.00	1.02	25.324	27.86	362.34	0.650	0.000	2.00	7.150	4.65	207.1	0.0	305.3
114.00	1.00	1.03	25.452	28.00	358.28	0.650	0.000	2.00	7.053	4.58	205.4	0.0	301.1
116.00	1.00	1.03	25.579	28.14	354.19	0.650	0.000	2.00	6.956	4.52	203.5	0.0	296.9
118.00	1.00	1.04	25.704	28.27	350.06	0.650	0.000	2.00	6.859	4.46	201.7	0.0	292.7
120.00	1.00	1.04	25.828	28.41	345.89	0.650	0.000	2.00	6.762	4.39	199.8	0.0	288.5
122.00	1.00	1.05	25.950	28.55	341.69	0.650	0.000	2.00	6.664	4.33	197.8	0.0	284.3
124.00	1.00	1.05	26.071	28.68	337.45	0.652 *	0.000	2.00	6.567	4.28	196.5	0.0	280.1
126.00	1.00	1.06	26.190	28.81	333.18	0.655 *	0.000	2.00	6.470	4.24	195.3	0.0	276.0
128.00	1.00	1.06	26.309	28.94	328.88	0.658 *	0.000	2.00	6.373	4.19	194.2	0.0	271.8
130.00	1.00	1.07	26.425	29.07	324.54	0.661 *	0.000	2.00	6.276	4.15	193.0	0.0	267.6
132.00	1.00	1.07	26.541	29.19	320.17	0.664 *	0.000	2.00	6.178	4.10	191.7	0.0	263.4
134.00	1.00	1.07	26.655	29.32	315.77	0.668 *	0.000	2.00	6.081	4.06	190.5	0.0	259.2
136.00	1.00	1.08	26.768	29.44	311.35	0.671 *	0.000	2.00	5.984	4.02	189.2	0.0	255.0
138.00	1.00	1.08	26.880	29.57	306.89	0.675 *	0.000	2.00	5.887	3.97	187.9	0.0	250.8
140.00	1.00	1.09	26.991	29.69	302.40	0.678 *	0.000	2.00	5.790	3.93	186.6	0.0	246.7
142.00	1.00	1.09	27.100	29.81	297.88	0.682 *	0.000	2.00	5.692	3.88	185.2	0.0	242.5
143.75 Bot - Section 4	1.00	1.10	27.195	29.91	293.91	0.686 *	0.000	1.75	4.901	3.36	160.9	0.0	208.7
144.00	1.00	1.10	27.209	29.93	293.34	0.746 *	0.000	0.25	0.702	0.52	25.1	0.0	44.6
144.50 Appurtenance(s)	1.00	1.10	27.236	29.96	292.20	0.747 *	0.000	0.50	1.399	1.05	50.1	0.0	88.9
145.75 RB1	1.00	1.10	27.303	30.03	289.34	0.750 *	0.000	1.25	3.472	2.60	125.1	0.0	220.5
146.00	1.00	1.10	27.316	30.05	288.76	0.752 *	0.000	0.25	0.690	0.52	24.9	0.0	43.8
148.00	1.00	1.11	27.423	30.17	284.17	0.755 *	0.000	2.00	5.464	4.12	199.0	0.0	346.9
148.08 Top - Section 3	1.00	1.11	27.427	30.17	283.97	0.758 *	0.000	0.08	0.226	0.17	8.2	0.0	14.3
149.50 Appurtenance(s)	1.00	1.11	27.502	30.25	284.07	0.756 *	0.000	1.42	3.809	2.88	139.4	0.0	81.5
150.00	1.00	1.11	27.528	30.28	282.92	0.759 *	0.000	0.50	1.333	1.01	49.0	0.0	28.5
151.75 RT1	1.00	1.11	27.620	30.38	278.85	0.762 *	0.000	1.75	4.616	3.52	170.9	0.0	98.8
152.00	1.00	1.11	27.633	30.40	278.27	0.765 *	0.000	0.25	0.653	0.50	24.3	0.0	14.0
154.00	1.00	1.12	27.736	30.51	273.60	0.760 *	0.000	2.00	5.173	3.93	191.9	0.0	110.7
154.50 Appurtenance(s)	1.00	1.12	27.762	30.54	272.43	0.708 *	0.000	0.50	1.278	0.90	44.2	0.0	27.4
155.00 Appurtenance(s)	1.00	1.12	27.787	30.57	271.26	0.709 *	0.000	0.50	1.272	0.90	44.1	0.0	27.2
156.00	1.00	1.12	27.838	30.62	268.91	0.711 *	0.000	1.00	2.526	1.80	88.0	0.0	54.1
158.00	1.00	1.13	27.940	30.73	264.19	0.715 *	0.000	2.00	4.978	3.56	175.0	0.0	106.5
159.50 Appurtenance(s)	1.00	1.13	28.015	30.82	260.63	0.719 *	0.000	1.50	3.670	2.64	130.2	0.0	78.5
160.00	1.00	1.13	28.040	30.84	259.45	0.722 *	0.000	0.50	1.211	0.87	43.2	0.0	25.9
162.00	1.00	1.13	28.140	30.95	254.68	0.725 *	0.000	2.00	4.784	3.47	171.9	0.0	102.3
164.00	1.00	1.14	28.239	31.06	249.89	0.731 *	0.000	2.00	4.687	3.43	170.3	0.0	100.3
164.50 Appurtenance(s)	1.00	1.14	28.264	31.09	248.69	0.735 *	0.000	0.50	1.156	0.85	42.3	0.0	24.7
165.00 Appurtenance(s)	1.00	1.14	28.288	31.12	247.48	0.736 *	0.000	0.50	1.150	0.85	42.2	0.0	24.6
166.00	1.00	1.14	28.337	31.17	245.08	0.650	0.000	1.00	2.283	1.48	74.0	0.0	48.8
168.00	1.00	1.15	28.434	31.28	240.24	0.650	0.000	2.00	4.492	2.92	146.1	0.0	96.1
169.50 Appurtenance(s)	1.00	1.15	28.506	31.36	236.60	0.650	0.000	1.50	3.305	2.15	107.8	0.0	70.7
170.00	1.00	1.15	28.530	31.38	235.38	0.650	0.000	0.50	1.090	0.71	35.6	0.0	23.3
172.00	1.00	1.15	28.626	31.49	230.50	0.650	0.000	2.00	4.298	2.79	140.7	0.0	91.9
174.00	1.00	1.16	28.721	31.59	225.60	0.650	0.000	2.00	4.201	2.73	138.0	0.0	89.8
174.50 Appurtenance(s)	1.00	1.16	28.744	31.62	224.38	0.650	0.000	0.50	1.035	0.67	34.0	0.0	22.1

Wind Loading - Shaft

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 28
	Struct Class: II	



175.00 Appurtenance(s)	1.00	1.16	28.768	31.64	223.15	0.650	0.000	0.50	1.029	0.67	33.9	0.0	22.0
176.00	1.00	1.16	28.815	31.70	220.68	0.650	0.000	1.00	2.040	1.33	67.2	0.0	43.6
178.00	1.00	1.17	28.908	31.80	215.74	0.650	0.000	2.00	4.006	2.60	132.5	0.0	85.6
179.50 Appurtenance(s)	1.00	1.17	28.977	31.87	212.02	0.650	0.000	1.50	2.941	1.91	97.5	0.0	62.8
180.00	1.00	1.17	29.000	31.90	210.78	0.650	0.000	0.50	0.968	0.63	32.1	0.0	20.7
182.00	1.00	1.17	29.092	32.00	205.80	0.650	0.000	2.00	3.812	2.48	126.9	0.0	81.4
184.00	1.00	1.18	29.183	32.10	200.79	0.650	0.000	2.00	3.715	2.41	124.0	0.0	79.3
185.00 Appurtenance(s)	1.00	1.18	29.228	32.15	198.29	0.650	0.000	1.00	1.821	1.18	60.9	0.0	38.9
								Totals:	185.00		18,992.6		36,402.3

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

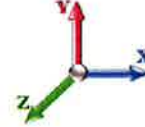
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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 28

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	185.00	Cobra Arms	3	29.228	32.151	0.75	1.00	14.63	945.00	0.000	0.000	752.33	0.00	0.00
2	185.00	Allen Telecom	6	29.318	32.250	0.75	1.00	2.48	94.50	0.000	2.000	127.71	0.00	255.42
3	185.00	Kathrein 782 11056	3	29.318	32.250	0.67	1.00	0.26	7.83	0.000	2.000	13.48	0.00	26.97
4	185.00	Commscope LNX-6515DS	3	29.318	32.250	0.80	1.00	27.53	135.81	0.000	2.000	1420.43	0.00	2840.87
5	185.00	EMS RR90-17-02DP	3	29.318	32.250	0.79	1.00	10.33	48.60	0.000	2.000	533.19	0.00	1066.38
6	185.00	6' Pole Branch	1	29.228	32.151	1.00	1.00	16.06	270.00	0.000	0.000	826.15	0.00	0.00
7	179.50	6' Pole Branch	1	28.977	31.875	1.00	1.00	46.00	270.00	0.000	0.000	2345.98	0.00	0.00
8	175.00	RFS APXVTM14-C-120	3	28.768	31.644	0.63	0.80	12.02	151.20	0.000	0.000	608.62	0.00	0.00
9	175.00	RFS APXVSP18-C-A20	3	28.768	31.644	0.66	0.80	15.98	153.90	0.000	0.000	808.87	0.00	0.00
10	175.00	Alcatel Lucent 800 MHz	3	28.768	31.644	0.60	0.80	4.48	143.10	0.000	0.000	226.93	0.00	0.00
11	175.00	Cobra Arms	3	28.768	31.644	0.56	0.75	22.78	1080.00	0.000	0.000	1153.44	0.00	0.00
12	175.00	Alcatel Lucent 800 MHz	3	28.768	31.644	0.60	0.80	5.24	47.25	0.000	0.000	265.21	0.00	0.00
13	175.00	Alcatel Lucent	3	28.768	31.644	0.60	0.80	7.29	189.00	0.000	0.000	369.10	0.00	0.00
14	175.00	Alcatel Lucent 1900 MHz	3	28.768	31.644	0.60	0.80	6.84	118.80	0.000	0.000	346.32	0.00	0.00
15	175.00	RFS ACU-A20-N RETs	4	28.768	31.644	0.54	0.80	0.30	3.60	0.000	0.000	15.20	0.00	0.00
16	174.50	7' Pole Branch	1	28.744	31.619	1.00	1.00	15.00	414.00	0.000	0.000	758.85	0.00	0.00
17	169.50	8' Pole Branch	1	28.506	31.357	1.00	1.00	35.00	504.00	0.000	0.000	1755.99	0.00	0.00
18	165.00	DB-B1-6C-12AB-0Z	2	28.288	31.117	0.73	0.80	5.97	38.52	0.000	0.000	297.21	0.00	0.00
19	165.00	RRH4X45-AWS	3	28.288	31.117	0.64	0.80	4.99	172.80	0.000	0.000	248.54	0.00	0.00
20	165.00	SBNHH-1D65B	6	28.288	31.117	0.66	0.80	32.51	216.00	0.000	0.000	1618.55	0.00	0.00
21	165.00	Antel LPA 80063/6CF	2	28.288	31.117	0.75	0.80	14.44	48.60	0.000	0.000	718.84	0.00	0.00
22	165.00	Swedcom SC-E 6014 Rev	4	28.288	31.117	0.78	0.80	10.34	54.00	0.000	0.000	514.61	0.00	0.00
23	165.00	Cobra Arms	3	28.288	31.117	0.56	0.75	22.78	1080.00	0.000	0.000	1134.21	0.00	0.00
24	165.00	RRH2X60-700	3	28.288	31.117	0.61	0.80	6.38	148.50	0.000	0.000	317.84	0.00	0.00
25	164.50	8' Pole Branch	1	28.264	31.090	1.00	1.00	24.24	504.00	0.000	0.000	1205.79	0.00	0.00
26	159.50	9' Pole Branch	1	28.015	30.817	1.00	1.00	45.00	594.00	0.000	0.000	2218.82	0.00	0.00
27	155.00	Powerwave	3	27.787	30.566	0.62	0.80	15.28	143.10	0.000	0.000	747.06	0.00	0.00
28	155.00	Cobra Arms	3	27.787	30.566	0.56	0.75	22.78	1080.00	0.000	0.000	1114.13	0.00	0.00
29	155.00	Powerwave 7770.00	6	27.787	30.566	0.62	0.80	20.59	189.00	0.000	0.000	1007.06	0.00	0.00
30	155.00	Ericsson RRUS-11 RRUs	6	27.787	30.566	0.54	0.80	14.43	297.00	0.000	0.000	705.55	0.00	0.00
31	155.00	Powerwave LGP 21401	6	27.787	30.566	0.54	0.80	3.06	94.50	0.000	0.000	149.42	0.00	0.00
32	155.00	Powerwave LGP21903	6	27.787	30.566	0.67	0.80	1.09	29.70	0.000	0.000	53.24	0.00	0.00
33	155.00	Raycap DC6-48-60-18-8F	1	27.787	30.566	0.80	0.80	1.18	28.62	0.000	0.000	57.51	0.00	0.00
34	154.50	9' Pole Branch	1	27.762	30.538	1.00	1.00	33.48	594.00	0.000	0.000	1635.85	0.00	0.00
35	149.50	10' Pole Branch	1	27.502	30.252	1.00	1.00	50.00	630.00	0.000	0.000	2420.17	0.00	0.00
36	144.50	11' Pole Branch	1	27.236	29.959	1.00	1.00	42.72	648.00	0.000	0.000	2047.79	0.00	0.00
Totals:								11,166.93				30,539.98		

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

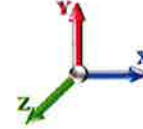


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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 28

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
2.00		242.80	614.41	0.00	0.00
4.00		240.87	646.37	0.00	0.00
6.00		238.93	678.33	0.00	0.00
8.00		237.00	673.45	0.00	0.00
10.00		235.07	668.56	0.00	0.00
12.00		233.14	663.68	0.00	0.00
14.00		231.21	658.79	0.00	0.00
16.00		229.28	653.91	0.00	0.00
18.00		227.35	649.03	0.00	0.00
20.00		225.42	644.14	0.00	0.00
22.00		223.49	639.26	0.00	0.00
24.00		221.56	634.37	0.00	0.00
26.00		219.62	629.49	0.00	0.00
28.00		217.69	624.60	0.00	0.00
30.00		215.94	619.72	0.00	0.00
32.00		217.99	614.83	0.00	0.00
34.00		219.80	609.95	0.00	0.00
36.00		221.38	605.06	0.00	0.00
38.00		222.76	600.18	0.00	0.00
40.00		223.95	595.29	0.00	0.00
42.00		224.97	590.41	0.00	0.00
44.00		225.82	585.53	0.00	0.00
46.00		226.53	580.64	0.00	0.00
46.17		18.80	48.17	0.00	0.00
48.00		211.17	990.82	0.00	0.00
50.00		230.92	1071.53	0.00	0.00
52.00		231.26	1061.76	0.00	0.00
54.00		231.48	1051.99	0.00	0.00
56.00		231.59	563.66	0.00	0.00
58.00		231.59	558.77	0.00	0.00
60.00		231.49	553.89	0.00	0.00
62.00		231.29	549.01	0.00	0.00
64.00		231.00	544.12	0.00	0.00
66.00		230.62	539.24	0.00	0.00
68.00		230.15	534.35	0.00	0.00
70.00		229.60	529.47	0.00	0.00
72.00		228.98	524.58	0.00	0.00
74.00		228.27	519.70	0.00	0.00
76.00		227.50	514.81	0.00	0.00
78.00		226.66	509.93	0.00	0.00
80.00		225.74	505.04	0.00	0.00
82.00		224.77	500.16	0.00	0.00
84.00		223.72	495.27	0.00	0.00
86.00		222.62	490.39	0.00	0.00
88.00		221.46	485.51	0.00	0.00
90.00		220.24	480.62	0.00	0.00

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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92.00		218.97	475.74	0.00	0.00
94.00		217.64	470.85	0.00	0.00
94.08		9.01	19.51	0.00	0.00
96.00		210.57	771.02	0.00	0.00
98.00		218.37	795.66	0.00	0.00
100.00		216.90	786.59	0.00	0.00
100.17		17.96	65.14	0.00	0.00
102.00		197.34	370.04	0.00	0.00
104.00		213.83	399.67	0.00	0.00
106.00		212.23	395.48	0.00	0.00
108.00		210.58	391.30	0.00	0.00
110.00		208.88	387.11	0.00	0.00
112.00		207.15	382.92	0.00	0.00
114.00		205.37	378.73	0.00	0.00
116.00		203.55	374.55	0.00	0.00
118.00		201.68	370.36	0.00	0.00
120.00		199.78	366.17	0.00	0.00
122.00		197.84	361.99	0.00	0.00
124.00		196.46	357.80	0.00	0.00
126.00		195.32	353.61	0.00	0.00
128.00		194.15	349.43	0.00	0.00
130.00		192.96	345.24	0.00	0.00
132.00		191.74	341.05	0.00	0.00
134.00		190.49	336.87	0.00	0.00
136.00		189.21	332.68	0.00	0.00
138.00		187.91	328.49	0.00	0.00
140.00		186.58	324.31	0.00	0.00
142.00		185.23	320.12	0.00	0.00
143.75		160.91	276.67	0.00	0.00
144.00		25.10	54.30	0.00	0.00
144.50	(1) attachments	2097.93	756.30	0.00	0.00
145.75		125.08	269.03	0.00	0.00
146.00		24.93	53.51	0.00	0.00
148.00		199.03	424.56	0.00	0.00
148.08		8.25	17.55	0.00	0.00
149.50	(1) attachments	2559.54	766.55	0.00	0.00
150.00		48.98	47.94	0.00	0.00
151.75		170.95	166.77	0.00	0.00
152.00		24.30	23.69	0.00	0.00
154.00		191.91	188.38	0.00	0.00
154.50	(1) attachments	1680.06	640.77	0.00	0.00
155.00	(31) attachments	3878.09	1908.56	0.00	0.00
156.00		87.99	80.87	0.00	0.00
158.00		174.99	160.18	0.00	0.00
159.50	(1) attachments	2348.98	712.76	0.00	0.00
160.00		43.15	39.32	0.00	0.00
162.00		171.86	155.99	0.00	0.00
164.00		170.27	153.90	0.00	0.00
164.50	(1) attachments	1248.05	542.15	0.00	0.00
165.00	(23) attachments	4891.96	1796.44	0.00	0.00
166.00		73.99	62.43	0.00	0.00
168.00		146.13	123.29	0.00	0.00
169.50	(1) attachments	1863.79	595.09	0.00	0.00
170.00		35.56	30.10	0.00	0.00
172.00		140.75	119.10	0.00	0.00
174.00		138.02	117.01	0.00	0.00
174.50	(1) attachments	792.88	442.92	0.00	0.00

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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175.00	(25) attachments	3827.54	1915.64	0.00	0.00
176.00		67.23	54.82	0.00	0.00
178.00		132.49	108.07	0.00	0.00
179.50	(1) attachments	2443.48	349.68	0.00	0.00
180.00		32.12	26.30	0.00	0.00
182.00		126.86	103.88	0.00	0.00
184.00		124.01	101.79	0.00	0.00
185.00	(19) attachments	3734.18	1551.85	0.00	4189.63
Totals:		49,532.54	53,993.37	0.00	4,189.63

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

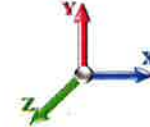
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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 28

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)
2.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.027	0.000	17.366	0.00	3.96
4.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.041	0.000	17.366	0.00	5.62
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.041	0.000	17.366	0.00	3.96
6.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.055	0.000	17.366	0.00	11.23
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.055	0.000	17.366	0.00	3.96
8.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.056	0.000	17.366	0.00	11.23
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.056	0.000	17.366	0.00	3.96
10.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.056	0.000	17.366	0.00	11.23
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.056	0.000	17.366	0.00	3.96
12.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	17.366	0.00	11.23
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	17.366	0.00	3.96
14.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	17.366	0.00	11.23
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	17.366	0.00	3.96
16.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	17.366	0.00	11.23
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	17.366	0.00	3.96
18.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.058	0.000	17.366	0.00	11.23
18.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.058	0.000	17.366	0.00	3.96
20.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.058	0.000	17.366	0.00	11.23
20.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.058	0.000	17.366	0.00	3.96
22.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.059	0.000	17.366	0.00	11.23
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	17.366	0.00	3.96
24.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.059	0.000	17.366	0.00	11.23
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	17.366	0.00	3.96
26.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.060	0.000	17.366	0.00	11.23
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	17.366	0.00	3.96
28.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	17.366	0.00	11.23
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	17.366	0.00	3.96
30.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	17.381	0.00	11.23
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	17.381	0.00	3.96
32.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.062	0.000	17.704	0.00	11.23
32.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	17.704	0.00	3.96
34.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.062	0.000	18.014	0.00	11.23
34.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	18.014	0.00	3.96
36.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	18.310	0.00	11.23
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	18.310	0.00	3.96
38.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	18.595	0.00	11.23
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	18.595	0.00	3.96
40.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.064	0.000	18.870	0.00	11.23
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.064	0.000	18.870	0.00	3.96
42.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.065	0.000	19.135	0.00	11.23
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	19.135	0.00	3.96
44.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.065	0.000	19.391	0.00	11.23
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	19.391	0.00	3.96
46.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.066	0.000	19.639	0.00	11.23
46.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	19.639	0.00	3.96
46.17	1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	0.066	0.000	19.659	0.00	0.94
46.17	1 5/8" Hybrid	Yes	0.17	0.000	2.00	0.03	0.00	0.066	0.000	19.659	0.00	0.33

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

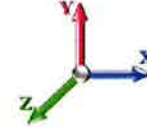
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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 28

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)
48.00	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.066	0.000	19.879	0.00	10.30
48.00	1 5/8" Hybrid	Yes	1.83	0.000	2.00	0.31	0.00	0.066	0.000	19.879	0.00	3.63
50.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.067	0.000	20.112	0.00	11.23
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	20.112	0.00	3.96
52.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	20.339	0.00	11.23
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	20.339	0.00	3.96
54.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	20.559	0.00	11.23
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	20.559	0.00	3.96
56.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	20.774	0.00	11.23
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	20.774	0.00	3.96
58.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.069	0.000	20.983	0.00	11.23
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	20.983	0.00	3.96
60.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.069	0.000	21.187	0.00	11.23
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	21.187	0.00	3.96
62.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.070	0.000	21.387	0.00	11.23
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	21.387	0.00	3.96
64.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.071	0.000	21.582	0.00	11.23
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	21.582	0.00	3.96
66.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.072	0.000	21.772	0.00	11.23
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	21.772	0.00	3.96
68.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.072	0.000	21.959	0.00	11.23
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	21.959	0.00	3.96
70.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.073	0.000	22.142	0.00	11.23
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	22.142	0.00	3.96
72.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.074	0.000	22.320	0.00	11.23
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.074	0.000	22.320	0.00	3.96
74.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.075	0.000	22.496	0.00	11.23
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	22.496	0.00	3.96
76.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.076	0.000	22.668	0.00	11.23
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	22.668	0.00	3.96
78.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.076	0.000	22.837	0.00	11.23
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	22.837	0.00	3.96
80.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.077	0.000	23.003	0.00	11.23
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	23.003	0.00	3.96
82.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.078	0.000	23.165	0.00	11.23
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	23.165	0.00	3.96
84.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.079	0.000	23.325	0.00	11.23
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	23.325	0.00	3.96
86.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.080	0.000	23.483	0.00	11.23
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	23.483	0.00	3.96
88.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.081	0.000	23.638	0.00	11.23
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	23.638	0.00	3.96
90.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.082	0.000	23.790	0.00	11.23
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	23.790	0.00	3.96
92.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.083	0.000	23.940	0.00	11.23
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	23.940	0.00	3.96
94.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.084	0.000	24.087	0.00	11.23

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

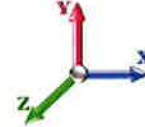
Page: 35



Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 28

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)
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	24.087	0.00	3.96
94.08	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.085	0.000	24.093	0.00	0.47
94.08	1 5/8" Hybrid	Yes	0.08	0.000	2.00	0.01	0.00	0.085	0.000	24.093	0.00	0.16
96.00	1 5/8" Coax	Yes	1.92	0.000	1.98	0.32	0.00	0.085	0.000	24.233	0.00	10.76
96.00	1 5/8" Hybrid	Yes	1.92	0.000	2.00	0.32	0.00	0.085	0.000	24.233	0.00	3.80
98.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.086	0.000	24.376	0.00	11.23
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	24.376	0.00	3.96
100.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.087	0.000	24.517	0.00	11.23
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	24.517	0.00	3.96
100.17	1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	0.088	0.000	24.529	0.00	0.94
100.17	1 5/8" Hybrid	Yes	0.17	0.000	2.00	0.03	0.00	0.088	0.000	24.529	0.00	0.33
102.00	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.087	0.000	24.656	0.00	10.30
102.00	1 5/8" Hybrid	Yes	1.83	0.000	2.00	0.31	0.00	0.087	0.000	24.656	0.00	3.63
104.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.088	0.000	24.793	0.00	11.23
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	24.793	0.00	3.96
106.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.089	0.000	24.928	0.00	11.23
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	24.928	0.00	3.96
108.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.090	0.000	25.062	0.00	11.23
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	25.062	0.00	3.96
110.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.092	0.000	25.194	0.00	11.23
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	25.194	0.00	3.96
112.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.093	0.000	25.324	0.00	11.23
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	25.324	0.00	3.96
114.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.094	0.000	25.452	0.00	11.23
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.094	0.000	25.452	0.00	3.96
116.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.095	0.000	25.579	0.00	11.23
116.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	25.579	0.00	3.96
118.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.097	0.000	25.704	0.00	11.23
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.097	0.000	25.704	0.00	3.96
120.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.098	0.000	25.828	0.00	11.23
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.098	0.000	25.828	0.00	3.96
122.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.100	0.000	25.950	0.00	11.23
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.100	0.000	25.950	0.00	3.96
124.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.101	1.003	26.071	0.00	11.23
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.101	1.003	26.071	0.00	3.96
126.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.103	1.008	26.190	0.00	11.23
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.103	1.008	26.190	0.00	3.96
128.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.104	1.012	26.309	0.00	11.23
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.104	1.012	26.309	0.00	3.96
130.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.106	1.017	26.425	0.00	11.23
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.106	1.017	26.425	0.00	3.96
132.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.107	1.022	26.541	0.00	11.23
132.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.107	1.022	26.541	0.00	3.96
134.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.109	1.027	26.655	0.00	11.23
134.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.027	26.655	0.00	3.96
136.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.111	1.033	26.768	0.00	11.23
136.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.033	26.768	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

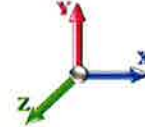
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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 28

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)
138.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.113	1.038	26.880	0.00	11.23
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.038	26.880	0.00	3.96
140.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.115	1.044	26.991	0.00	11.23
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.115	1.044	26.991	0.00	3.96
142.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.117	1.050	27.100	0.00	11.23
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	27.100	0.00	3.96
143.75	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.118	1.055	27.195	0.00	9.83
143.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.118	1.055	27.195	0.00	3.47
144.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.149	1.148	27.209	0.00	1.40
144.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.149	1.148	27.209	0.00	0.50
144.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.149	1.148	27.209	0.00	0.00
144.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.150	1.150	27.236	0.00	2.81
144.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.150	1.150	27.236	0.00	0.99
144.50	1" Reinforcing plate	Yes	0.50	0.000	1.00	0.04	0.00	0.150	1.150	27.236	0.00	0.00
145.75	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.151	1.153	27.303	0.00	7.02
145.75	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.151	1.153	27.303	0.00	2.48
145.75	1" Reinforcing plate	Yes	1.25	0.000	1.00	0.10	0.00	0.151	1.153	27.303	0.00	0.00
146.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.152	1.156	27.316	0.00	1.40
146.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.152	1.156	27.316	0.00	0.50
146.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.152	1.156	27.316	0.00	0.00
148.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.154	1.161	27.423	0.00	11.23
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.154	1.161	27.423	0.00	3.96
148.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.154	1.161	27.423	0.00	0.00
148.08	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.155	1.165	27.427	0.00	0.47
148.08	1 5/8" Hybrid	Yes	0.08	0.000	2.00	0.01	0.00	0.155	1.165	27.427	0.00	0.16
148.08	1" Reinforcing plate	Yes	0.08	0.000	1.00	0.01	0.00	0.155	1.165	27.427	0.00	0.00
149.50	1 5/8" Coax	Yes	1.42	0.000	1.98	0.23	0.00	0.154	1.163	27.502	0.00	7.96
149.50	1 5/8" Hybrid	Yes	1.42	0.000	2.00	0.24	0.00	0.154	1.163	27.502	0.00	2.81
149.50	1" Reinforcing plate	Yes	1.42	0.000	1.00	0.12	0.00	0.154	1.163	27.502	0.00	0.00
150.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.156	1.167	27.528	0.00	2.81
150.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.156	1.167	27.528	0.00	0.99
150.00	1" Reinforcing plate	Yes	0.50	0.000	1.00	0.04	0.00	0.156	1.167	27.528	0.00	0.00
151.75	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.157	1.172	27.620	0.00	9.83
151.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.157	1.172	27.620	0.00	3.47
151.75	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.157	1.172	27.620	0.00	0.00
152.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.159	1.176	27.633	0.00	1.40
152.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.159	1.176	27.633	0.00	0.50
152.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.159	1.176	27.633	0.00	0.00
154.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.156	1.169	27.736	0.00	11.23
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.156	1.169	27.736	0.00	3.96
154.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.156	1.169	27.736	0.00	0.00
154.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.130	1.089	27.762	0.00	2.81
154.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.130	1.089	27.762	0.00	0.99
155.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.130	1.091	27.787	0.00	2.81
155.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.130	1.091	27.787	0.00	0.99
156.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.131	1.094	27.838	0.00	5.62
156.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.131	1.094	27.838	0.00	1.98

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

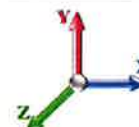


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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 28

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)
158.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.133	1.100	27.940	0.00	11.23
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.133	1.100	27.940	0.00	3.96
159.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.136	1.107	28.015	0.00	8.42
159.50	1 5/8" Hybrid	Yes	1.50	0.000	2.00	0.25	0.00	0.136	1.107	28.015	0.00	2.97
160.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.137	1.111	28.040	0.00	2.81
160.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.137	1.111	28.040	0.00	0.99
162.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.139	1.116	28.140	0.00	11.23
162.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.139	1.116	28.140	0.00	3.96
164.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.142	1.125	28.239	0.00	11.23
164.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.142	1.125	28.239	0.00	3.96
164.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.143	1.130	28.264	0.00	2.81
164.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.143	1.130	28.264	0.00	0.99
165.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.144	1.132	28.288	0.00	2.81
165.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.144	1.132	28.288	0.00	0.99
166.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.072	0.000	28.337	0.00	5.62
168.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.073	0.000	28.434	0.00	11.23
169.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.075	0.000	28.506	0.00	8.42
170.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.076	0.000	28.530	0.00	2.81
172.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.077	0.000	28.626	0.00	11.23
174.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.079	0.000	28.721	0.00	11.23
174.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.080	0.000	28.744	0.00	2.81
175.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.080	0.000	28.768	0.00	2.81
176.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.081	0.000	28.815	0.00	5.62
178.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.082	0.000	28.908	0.00	11.23
179.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.084	0.000	28.977	0.00	8.42
180.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.085	0.000	29.000	0.00	2.81
182.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.087	0.000	29.092	0.00	11.23
184.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.089	0.000	29.183	0.00	11.23
185.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.091	0.000	29.228	0.00	5.62
Totals:											0.0	1,348.8

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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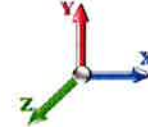


Load Case: 0.9D + 1.6W 101 mph Wind

Iterations 28

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	-53.97	-49.56	0.00	-6885.9	0.00	6885.93	6186.26	3093.13	18350.4	9188.88	0.00	0.000	0.000	0.758
2.00	-53.30	-49.37	0.00	-6786.8	0.00	6786.82	6161.28	3080.64	18129.8	9078.39	0.01	-0.059	0.000	0.756
4.00	-52.60	-49.18	0.00	-6688.0	0.00	6688.08	6135.91	3067.96	17909.2	8967.93	0.05	-0.119	0.000	0.755
6.00	-51.87	-49.00	0.00	-6589.7	0.00	6589.71	6110.15	3055.07	17688.7	8857.51	0.11	-0.179	0.000	0.753
8.00	-51.15	-48.81	0.00	-6491.7	0.00	6491.72	6084.00	3042.00	17468.3	8747.14	0.20	-0.240	0.000	0.751
10.00	-50.43	-48.63	0.00	-6394.0	0.00	6394.09	6057.45	3028.73	17248.0	8636.84	0.32	-0.302	0.000	0.749
12.00	-49.71	-48.45	0.00	-6296.8	0.00	6296.83	6030.52	3015.26	17027.9	8526.61	0.46	-0.364	0.000	0.747
14.00	-49.00	-48.27	0.00	-6199.9	0.00	6199.94	6003.19	3001.60	16807.9	8416.48	0.62	-0.427	0.000	0.745
16.00	-48.30	-48.08	0.00	-6103.4	0.00	6103.41	5975.47	2987.74	16588.2	8306.46	0.82	-0.490	0.000	0.743
18.00	-47.60	-47.90	0.00	-6007.2	0.00	6007.25	5947.37	2973.68	16368.7	8196.55	1.04	-0.554	0.000	0.741
20.00	-46.90	-47.73	0.00	-5911.4	0.00	5911.44	5918.87	2959.43	16149.5	8086.79	1.28	-0.619	0.000	0.739
22.00	-46.21	-47.55	0.00	-5815.9	0.00	5815.99	5889.98	2944.99	15930.6	7977.17	1.56	-0.684	0.000	0.737
24.00	-45.52	-47.37	0.00	-5720.9	0.00	5720.90	5860.70	2930.35	15712.0	7867.72	1.86	-0.750	0.000	0.735
26.00	-44.84	-47.19	0.00	-5626.1	0.00	5626.16	5831.03	2915.51	15493.8	7758.44	2.19	-0.816	0.000	0.733
28.00	-44.17	-47.02	0.00	-5531.7	0.00	5531.77	5800.97	2900.48	15276.0	7649.36	2.54	-0.883	0.000	0.731
30.00	-43.49	-46.85	0.00	-5437.7	0.00	5437.73	5770.52	2885.26	15058.5	7540.48	2.93	-0.951	0.000	0.729
32.00	-42.83	-46.67	0.00	-5344.0	0.00	5344.04	5739.67	2869.84	14841.5	7431.82	3.34	-1.020	0.000	0.727
34.00	-42.17	-46.49	0.00	-5250.7	0.00	5250.71	5708.44	2854.22	14625.0	7323.39	3.79	-1.089	0.000	0.725
36.00	-41.51	-46.31	0.00	-5157.7	0.00	5157.73	5676.81	2838.41	14409.0	7215.22	4.26	-1.158	0.000	0.722
38.00	-40.86	-46.12	0.00	-5065.1	0.00	5065.12	5644.80	2822.40	14193.5	7107.30	4.76	-1.229	0.000	0.720
40.00	-40.21	-45.94	0.00	-4972.8	0.00	4972.88	5612.39	2806.20	13978.5	6999.66	5.29	-1.300	0.000	0.718
42.00	-39.57	-45.75	0.00	-4881.0	0.00	4881.01	5579.60	2789.80	13764.1	6892.30	5.85	-1.372	0.000	0.716
44.00	-38.93	-45.56	0.00	-4789.5	0.00	4789.52	5546.41	2773.20	13550.3	6785.25	6.44	-1.445	0.000	0.713
46.00	-38.32	-45.34	0.00	-4698.4	0.00	4698.41	5512.83	2756.41	13337.2	6678.52	7.06	-1.518	0.000	0.711
46.17	-38.24	-45.35	0.00	-4690.8	0.00	4690.85	5510.01	2755.01	13319.4	6669.64	7.11	-1.524	0.000	0.711
48.00	-37.20	-45.15	0.00	-4607.7	0.00	4607.72	5478.86	2739.43	13124.7	6572.12	7.71	-1.592	0.000	0.708
50.00	-36.08	-44.94	0.00	-4517.4	0.00	4517.41	5444.50	2722.25	12912.9	6466.06	8.40	-1.667	0.000	0.706
52.00	-34.97	-44.72	0.00	-4427.5	0.00	4427.53	5409.75	2704.87	12701.8	6360.36	9.11	-1.742	0.000	0.703
54.00	-33.86	-44.50	0.00	-4338.0	0.00	4338.09	5427.99	2713.99	12812.2	6415.65	9.86	-1.819	0.000	0.683
56.00	-33.25	-44.30	0.00	-4249.0	0.00	4249.08	5393.05	2696.53	12601.5	6310.13	10.64	-1.896	0.000	0.680
58.00	-32.64	-44.09	0.00	-4160.4	0.00	4160.48	5357.72	2678.86	12391.5	6204.99	11.45	-1.970	0.000	0.677
60.00	-32.04	-43.88	0.00	-4072.3	0.00	4072.30	5322.01	2661.00	12182.3	6100.24	12.29	-2.045	0.000	0.674
62.00	-31.44	-43.67	0.00	-3984.5	0.00	3984.54	5285.90	2642.95	11974.0	5995.90	13.16	-2.120	0.000	0.671
64.00	-30.85	-43.46	0.00	-3897.1	0.00	3897.19	5249.40	2624.70	11766.4	5891.98	14.07	-2.197	0.000	0.668
66.00	-30.26	-43.25	0.00	-3810.2	0.00	3810.27	5212.50	2606.25	11559.8	5788.50	15.00	-2.274	0.000	0.664
68.00	-29.67	-43.04	0.00	-3723.7	0.00	3723.76	5175.22	2587.61	11354.0	5685.46	15.97	-2.351	0.000	0.661
70.00	-29.10	-42.83	0.00	-3637.6	0.00	3637.68	5137.55	2568.77	11149.2	5582.89	16.98	-2.430	0.000	0.658
72.00	-28.52	-42.62	0.00	-3552.0	0.00	3552.02	5099.49	2549.74	10945.3	5480.80	18.01	-2.509	0.000	0.654
74.00	-27.96	-42.41	0.00	-3466.7	0.00	3466.79	5061.03	2530.52	10742.4	5379.19	19.08	-2.588	0.000	0.650
76.00	-27.39	-42.19	0.00	-3381.9	0.00	3381.98	5022.19	2511.09	10540.5	5278.10	20.18	-2.669	0.000	0.646
78.00	-26.83	-41.98	0.00	-3297.5	0.00	3297.59	4982.95	2491.47	10339.6	5177.52	21.32	-2.750	0.000	0.643
80.00	-26.28	-41.77	0.00	-3213.6	0.00	3213.63	4943.32	2471.66	10139.8	5077.48	22.49	-2.832	0.000	0.639
82.00	-25.73	-41.56	0.00	-3130.0	0.00	3130.09	4903.30	2451.65	9941.18	4977.98	23.69	-2.914	0.000	0.634
84.00	-25.19	-41.34	0.00	-3046.9	0.00	3046.98	4862.90	2431.45	9743.60	4879.04	24.93	-2.997	0.000	0.630
86.00	-24.65	-41.13	0.00	-2964.2	0.00	2964.29	4822.10	2411.05	9547.17	4780.68	26.20	-3.081	0.000	0.625
88.00	-24.12	-40.92	0.00	-2882.0	0.00	2882.03	4780.91	2390.45	9351.91	4682.91	27.51	-3.166	0.000	0.621
90.00	-23.59	-40.71	0.00	-2800.1	0.00	2800.19	4739.33	2369.66	9157.86	4585.74	28.85	-3.251	0.000	0.616
92.00	-23.07	-40.50	0.00	-2718.7	0.00	2718.77	4697.35	2348.68	8965.05	4489.19	30.23	-3.336	0.000	0.611

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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94.00	-22.58	-40.27	0.00	-2637.7	0.00	2637.78	4654.99	2327.50	8773.49	4393.27	31.65	-3.423	0.000	0.606
94.08	-22.53	-40.28	0.00	-2634.4	0.00	2634.42	4653.22	2326.61	8765.54	4389.28	31.71	-3.426	0.000	0.605
96.00	-21.71	-40.05	0.00	-2557.2	0.00	2557.22	4612.24	2306.12	8583.22	4297.99	33.10	-3.510	0.000	0.600
98.00	-20.87	-39.82	0.00	-2477.1	0.00	2477.12	4569.09	2284.55	8394.27	4203.37	34.59	-3.597	0.000	0.594
100.00	-20.07	-39.57	0.00	-2397.4	0.00	2397.48	4525.56	2262.78	8206.66	4109.43	36.12	-3.685	0.000	0.588
100.17	-19.97	-39.56	0.00	-2390.8	0.00	2390.89	3757.39	1878.70	6942.18	3476.25	36.25	-3.692	0.000	0.694
102.00	-19.55	-39.37	0.00	-2318.3	0.00	2318.36	3727.29	1863.64	6805.30	3407.71	37.68	-3.774	0.000	0.686
104.00	-19.10	-39.16	0.00	-2239.6	0.00	2239.62	3694.07	1847.03	6656.80	3333.35	39.28	-3.872	0.000	0.678
106.00	-18.65	-38.96	0.00	-2161.2	0.00	2161.29	3660.46	1830.23	6509.18	3259.43	40.92	-3.970	0.000	0.669
108.00	-18.21	-38.75	0.00	-2083.3	0.00	2083.38	3626.46	1813.23	6362.47	3185.96	42.61	-4.069	0.000	0.659
110.00	-17.77	-38.55	0.00	-2005.8	0.00	2005.88	3592.07	1796.03	6216.70	3112.97	44.33	-4.168	0.000	0.650
112.00	-17.34	-38.34	0.00	-1928.7	0.00	1928.78	3557.29	1778.64	6071.91	3040.47	46.10	-4.268	0.000	0.640
114.00	-16.91	-38.14	0.00	-1852.1	0.00	1852.10	3522.12	1761.06	5928.11	2968.46	47.91	-4.367	0.000	0.629
116.00	-16.49	-37.93	0.00	-1775.8	0.00	1775.83	3486.55	1743.28	5785.33	2896.97	49.76	-4.467	0.000	0.618
118.00	-16.07	-37.73	0.00	-1699.9	0.00	1699.96	3450.60	1725.30	5643.61	2826.00	51.65	-4.566	0.000	0.607
120.00	-15.66	-37.53	0.00	-1624.4	0.00	1624.49	3414.26	1707.13	5502.97	2755.57	53.58	-4.665	0.000	0.595
122.00	-15.25	-37.33	0.00	-1549.4	0.00	1549.43	3377.52	1688.76	5363.43	2685.70	55.55	-4.764	0.000	0.582
124.00	-14.84	-37.13	0.00	-1474.7	0.00	1474.77	3340.40	1670.20	5225.04	2616.40	57.57	-4.863	0.000	0.569
126.00	-14.44	-36.93	0.00	-1400.5	0.00	1400.51	3302.88	1651.44	5087.80	2547.68	59.63	-4.961	0.000	0.555
128.00	-14.05	-36.73	0.00	-1326.6	0.00	1326.65	3264.97	1632.49	4951.76	2479.56	61.72	-5.058	0.000	0.540
130.00	-13.66	-36.53	0.00	-1253.1	0.00	1253.19	3220.40	1610.20	4807.57	2407.36	63.86	-5.155	0.000	0.525
132.00	-13.28	-36.33	0.00	-1180.1	0.00	1180.14	3169.61	1584.80	4656.37	2331.65	66.04	-5.250	0.000	0.511
134.00	-12.90	-36.13	0.00	-1107.4	0.00	1107.48	3118.82	1559.41	4507.59	2257.15	68.26	-5.344	0.000	0.495
136.00	-12.53	-35.93	0.00	-1035.2	0.00	1035.22	3068.04	1534.02	4361.23	2183.86	70.51	-5.436	0.000	0.479
138.00	-12.17	-35.73	0.00	-963.35	0.00	963.35	3017.25	1508.63	4217.28	2111.78	72.81	-5.527	0.000	0.461
140.00	-11.81	-35.53	0.00	-891.89	0.00	891.89	2966.47	1483.23	4075.75	2040.91	75.14	-5.615	0.000	0.442
142.00	-11.46	-35.33	0.00	-820.83	0.00	820.83	2915.68	1457.84	3936.64	1971.24	77.51	-5.701	0.000	0.421
143.75	-11.18	-35.15	0.00	-759.00	0.00	759.00	2871.25	1435.62	3816.89	1911.28	79.61	-5.774	0.000	0.402
144.00	-11.12	-35.13	0.00	-750.21	0.00	750.21	2864.90	1432.45	3799.94	1902.79	79.91	-5.784	0.000	0.399
144.50	-10.55	-32.97	0.00	-732.65	0.00	732.65	2852.20	1426.10	3766.14	1885.87	80.51	-5.805	0.000	0.393
145.75	-10.28	-32.82	0.00	-691.44	0.00	691.44	2820.46	1410.23	3682.30	1843.89	82.04	-5.855	0.000	0.248
146.00	-10.22	-32.80	0.00	-683.23	0.00	683.23	2814.11	1407.06	3665.65	1835.55	82.35	-5.862	0.000	0.246
148.00	-9.80	-32.56	0.00	-617.64	0.00	617.64	2763.33	1381.66	3533.78	1769.52	84.81	-5.912	0.000	0.230
148.08	-9.77	-32.55	0.00	-614.92	0.00	614.92	1152.50	576.25	1508.33	755.29	84.91	-5.914	0.000	0.285
149.50	-9.26	-29.93	0.00	-568.81	0.00	568.81	1145.31	572.66	1479.63	740.91	86.67	-5.948	0.000	0.383
150.00	-9.20	-29.88	0.00	-553.84	0.00	553.84	1142.73	571.37	1469.50	735.84	87.29	-5.964	0.000	0.375
151.75	-9.04	-29.70	0.00	-501.55	0.00	501.55	1133.50	566.75	1434.03	718.08	89.49	-6.021	0.000	0.345
151.75	-9.04	-29.70	0.00	-501.55	0.00	501.55	1133.50	566.75	1434.03	718.08	89.49	-6.021	0.000	0.345
152.00	-8.98	-29.69	0.00	-494.12	0.00	494.12	1132.15	566.08	1428.97	715.55	89.80	-6.028	0.000	0.701
154.00	-8.77	-29.49	0.00	-434.75	0.00	434.75	1121.19	560.59	1388.46	695.26	92.35	-6.150	0.000	0.636
154.50	-8.30	-27.75	0.00	-420.01	0.00	420.01	1118.38	559.19	1378.34	690.19	92.99	-6.180	0.000	0.618
155.00	-6.81	-23.70	0.00	-406.13	0.00	406.13	1115.56	557.78	1368.22	685.13	93.64	-6.209	0.000	0.601
156.00	-6.70	-23.61	0.00	-382.44	0.00	382.44	1109.83	554.91	1348.00	675.00	94.95	-6.265	0.000	0.574
158.00	-6.53	-23.43	0.00	-335.22	0.00	335.22	1098.08	549.04	1307.61	654.78	97.59	-6.371	0.000	0.520
159.50	-6.06	-21.02	0.00	-300.08	0.00	300.08	1089.01	544.51	1277.39	639.64	99.60	-6.445	0.000	0.476
160.00	-6.01	-20.98	0.00	-289.57	0.00	289.57	1085.94	542.97	1267.33	634.61	100.28	-6.469	0.000	0.463
162.00	-5.84	-20.80	0.00	-247.62	0.00	247.62	1073.41	536.70	1227.17	614.50	103.00	-6.559	0.000	0.410
164.00	-5.69	-20.62	0.00	-206.02	0.00	206.02	1060.49	530.24	1187.18	594.47	105.76	-6.639	0.000	0.353
164.50	-5.29	-19.32	0.00	-195.71	0.00	195.71	1057.19	528.60	1177.21	589.48	106.46	-6.657	0.000	0.338
165.00	-4.07	-14.25	0.00	-186.06	0.00	186.06	1053.88	526.94	1167.25	584.49	107.16	-6.676	0.000	0.323
166.00	-4.00	-14.17	0.00	-171.81	0.00	171.81	1047.17	523.59	1147.37	574.54	108.55	-6.710	0.000	0.304
168.00	-3.88	-14.02	0.00	-143.46	0.00	143.46	1033.47	516.74	1107.78	554.71	111.37	-6.773	0.000	0.263
169.50	-3.51	-12.10	0.00	-122.44	0.00	122.44	1022.94	511.47	1078.24	539.92	113.50	-6.816	0.000	0.231
170.00	-3.48	-12.06	0.00	-116.39	0.00	116.39	1019.38	509.69	1068.43	535.01	114.22	-6.829	0.000	0.222
172.00	-3.37	-11.91	0.00	-92.27	0.00	92.27	1004.89	502.45	1029.34	515.44	117.08	-6.877	0.000	0.183
174.00	-3.26	-11.76	0.00	-68.45	0.00	68.45	990.02	495.01	990.56	496.02	119.97	-6.916	0.000	0.142
174.50	-2.92	-10.92	0.00	-62.57	0.00	62.57	986.24	493.12	980.92	491.19	120.69	-6.925	0.000	0.131

Calculated Forces

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 40
	Struct Class: II	



175.00	-1.47	-6.89	0.00	-57.11	0.00	57.11	982.43	491.22	971.29	486.37	121.41	-6.933	0.000	0.119
176.00	-1.43	-6.82	0.00	-50.23	0.00	50.23	974.75	487.37	952.10	476.76	122.86	-6.947	0.000	0.107
178.00	-1.33	-6.67	0.00	-36.59	0.00	36.59	959.09	479.55	914.00	457.68	125.77	-6.972	0.000	0.082
179.50	-1.28	-4.20	0.00	-26.59	0.00	26.59	947.09	473.55	885.67	443.49	127.96	-6.986	0.000	0.061
180.00	-1.26	-4.17	0.00	-24.49	0.00	24.49	943.04	471.52	876.28	438.79	128.69	-6.990	0.000	0.057
182.00	-1.17	-4.03	0.00	-16.15	0.00	16.15	926.61	463.30	838.97	420.11	131.62	-7.004	0.000	0.040
184.00	-1.08	-3.90	0.00	-8.09	0.00	8.09	909.78	454.89	802.09	401.64	134.54	-7.012	0.000	0.021
185.00	0.00	-3.73	0.00	-4.19	0.00	4.19	901.22	450.61	783.83	392.50	136.01	-7.014	0.000	0.011

Wind Loading - Shaft

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	4.256	4.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.70	4.256	4.68	0.00	1.200	1.133	2.00	12.599	15.12	70.8	207.5	1021.4
4.00		1.00	0.70	4.256	4.68	0.00	1.200	1.215	2.00	12.529	15.03	70.4	220.9	1028.3
6.00		1.00	0.70	4.256	4.68	0.00	1.200	1.265	2.00	12.448	14.94	69.9	228.4	1029.3
8.00		1.00	0.70	4.256	4.68	0.00	1.200	1.302	2.00	12.363	14.84	69.5	233.3	1027.7
10.00		1.00	0.70	4.256	4.68	0.00	1.200	1.331	2.00	12.276	14.73	69.0	236.7	1024.6
12.00		1.00	0.70	4.256	4.68	0.00	1.200	1.356	2.00	12.187	14.62	68.5	239.2	1020.6
14.00		1.00	0.70	4.256	4.68	0.00	1.200	1.377	2.00	12.097	14.52	68.0	241.0	1015.9
16.00		1.00	0.70	4.256	4.68	0.00	1.200	1.395	2.00	12.006	14.41	67.4	242.3	1010.6
18.00		1.00	0.70	4.256	4.68	0.00	1.200	1.412	2.00	11.914	14.30	66.9	243.2	1005.0
20.00		1.00	0.70	4.256	4.68	0.00	1.200	1.427	2.00	11.822	14.19	66.4	243.8	999.1
22.00		1.00	0.70	4.256	4.68	0.00	1.200	1.440	2.00	11.729	14.08	65.9	244.1	992.9
24.00		1.00	0.70	4.256	4.68	0.00	1.200	1.453	2.00	11.636	13.96	65.4	244.2	986.5
26.00		1.00	0.70	4.256	4.68	0.00	1.200	1.465	2.00	11.543	13.85	64.8	244.1	979.8
28.00		1.00	0.70	4.256	4.68	0.00	1.200	1.476	2.00	11.449	13.74	64.3	243.8	973.1
30.00		1.00	0.70	4.260	4.69	0.00	1.200	1.486	2.00	11.356	13.63	63.8	243.4	966.1
32.00		1.00	0.71	4.339	4.77	0.00	1.200	1.495	2.00	11.262	13.51	64.5	242.8	959.1
34.00		1.00	0.73	4.415	4.86	0.00	1.200	1.504	2.00	11.167	13.40	65.1	242.2	951.9
36.00		1.00	0.74	4.487	4.94	0.00	1.200	1.513	2.00	11.073	13.29	65.6	241.4	944.6
38.00		1.00	0.75	4.557	5.01	0.00	1.200	1.521	2.00	10.979	13.17	66.0	240.6	937.3
40.00		1.00	0.76	4.625	5.09	0.00	1.200	1.529	2.00	10.884	13.06	66.4	239.6	929.8
42.00		1.00	0.77	4.689	5.16	0.00	1.200	1.537	2.00	10.789	12.95	66.8	238.6	922.3
44.00		1.00	0.78	4.752	5.23	0.00	1.200	1.544	2.00	10.695	12.83	67.1	237.5	914.7
46.00		1.00	0.79	4.813	5.29	0.00	1.200	1.551	2.00	10.600	12.72	67.3	236.4	907.0
46.17 Bot - Section 2		1.00	0.79	4.818	5.30	0.00	1.200	1.551	0.17	0.879	1.05	5.6	19.7	75.3
48.00		1.00	0.80	4.872	5.36	0.00	1.200	1.557	1.83	9.761	11.71	62.8	218.7	1444.9
50.00		1.00	0.81	4.929	5.42	0.00	1.200	1.564	2.00	10.558	12.67	68.7	237.4	1562.5
52.00		1.00	0.82	4.984	5.48	0.00	1.200	1.570	2.00	10.463	12.56	68.8	236.0	1548.2
54.00 Top - Section 1		1.00	0.83	5.039	5.54	0.00	1.200	1.576	2.00	10.367	12.44	69.0	234.7	1533.8
56.00		1.00	0.84	5.091	5.60	0.00	1.200	1.581	2.00	10.272	12.33	69.0	233.3	881.3
58.00		1.00	0.85	5.142	5.66	0.00	1.200	1.587	2.00	10.177	12.21	69.1	231.9	873.4
60.00		1.00	0.85	5.193	5.71	0.00	1.200	1.592	2.00	10.081	12.10	69.1	230.4	865.4
62.00		1.00	0.86	5.241	5.77	0.00	1.200	1.598	2.00	9.986	11.98	69.1	228.8	857.3
64.00		1.00	0.87	5.289	5.82	0.00	1.200	1.603	2.00	9.890	11.87	69.1	227.3	849.2
66.00		1.00	0.88	5.336	5.87	0.00	1.200	1.608	2.00	9.795	11.75	69.0	225.7	841.1
68.00		1.00	0.89	5.382	5.92	0.00	1.200	1.612	2.00	9.699	11.64	68.9	224.1	833.0
70.00		1.00	0.89	5.426	5.97	0.00	1.200	1.617	2.00	9.604	11.52	68.8	222.4	824.8
72.00		1.00	0.90	5.470	6.02	0.00	1.200	1.622	2.00	9.508	11.41	68.7	220.7	816.6
74.00		1.00	0.91	5.513	6.06	0.00	1.200	1.626	2.00	9.412	11.29	68.5	219.0	808.4
76.00		1.00	0.91	5.555	6.11	0.00	1.200	1.631	2.00	9.316	11.18	68.3	217.3	800.1
78.00		1.00	0.92	5.597	6.16	0.00	1.200	1.635	2.00	9.221	11.06	68.1	215.5	791.9
80.00		1.00	0.93	5.637	6.20	0.00	1.200	1.639	2.00	9.125	10.95	67.9	213.7	783.5
82.00		1.00	0.93	5.677	6.24	0.00	1.200	1.643	2.00	9.029	10.83	67.7	211.9	775.2
84.00		1.00	0.94	5.716	6.29	0.00	1.200	1.647	2.00	8.933	10.72	67.4	210.0	766.9
86.00		1.00	0.95	5.755	6.33	0.00	1.200	1.651	2.00	8.837	10.60	67.1	208.2	758.5
88.00		1.00	0.95	5.793	6.37	0.00	1.200	1.655	2.00	8.741	10.49	66.8	206.3	750.1
90.00		1.00	0.96	5.830	6.41	0.00	1.200	1.658	2.00	8.645	10.37	66.5	204.4	741.7

Wind Loading - Shaft

Structure: CT00707-S-SBA

Site Name: North Easton

Height: 185.00 (ft)

Base Elev: 0.000 (ft)

Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G

Exposure: B

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: II

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92.00	1.00	0.96	5.867	6.45	0.00	1.200	1.662	2.00	8.549	10.26	66.2	202.4	733.2
94.00	1.00	0.97	5.903	6.49	0.00	1.200	1.666	2.00	8.453	10.14	65.9	200.5	724.8
94.08 Bot - Section 3	1.00	0.97	5.905	6.50	0.00	1.200	1.666	0.08	0.350	0.42	2.7	8.4	30.1
96.00	1.00	0.98	5.939	6.53	0.00	1.200	1.669	1.92	8.129	9.75	63.7	193.3	1122.1
98.00	1.00	0.98	5.974	6.57	0.00	1.200	1.672	2.00	8.388	10.07	66.1	199.7	1157.0
100.00	1.00	0.99	6.008	6.61	0.00	1.200	1.676	2.00	8.292	9.95	65.8	197.7	1142.9
100.17 Top - Section 2	1.00	0.99	6.011	6.61	0.00	1.200	1.676	0.17	0.687	0.82	5.4	16.5	94.7
102.00	1.00	0.99	6.043	6.65	0.00	1.200	1.679	1.83	7.509	9.01	59.9	179.4	577.8
104.00	1.00	1.00	6.076	6.68	0.00	1.200	1.682	2.00	8.100	9.72	65.0	193.6	623.0
106.00	1.00	1.00	6.109	6.72	0.00	1.200	1.686	2.00	8.004	9.60	64.5	191.6	615.4
108.00	1.00	1.01	6.142	6.76	0.00	1.200	1.689	2.00	7.908	9.49	64.1	189.5	607.7
110.00	1.00	1.02	6.174	6.79	0.00	1.200	1.692	2.00	7.811	9.37	63.7	187.5	600.1
112.00	1.00	1.02	6.206	6.83	0.00	1.200	1.695	2.00	7.715	9.26	63.2	185.4	592.4
114.00	1.00	1.03	6.238	6.86	0.00	1.200	1.698	2.00	7.619	9.14	62.7	183.3	584.7
116.00	1.00	1.03	6.269	6.90	0.00	1.200	1.701	2.00	7.523	9.03	62.2	181.2	577.0
118.00	1.00	1.04	6.299	6.93	0.00	1.200	1.704	2.00	7.427	8.91	61.8	179.0	569.3
120.00	1.00	1.04	6.330	6.96	0.00	1.200	1.707	2.00	7.330	8.80	61.2	176.9	561.6
122.00	1.00	1.05	6.360	7.00	0.00	1.200	1.710	2.00	7.234	8.68	60.7	174.7	553.8
124.00	1.00	1.05	6.389	7.03	0.00	1.204 *	1.712	2.00	7.138	8.59	60.4	172.6	546.1
126.00	1.00	1.06	6.419	7.06	0.00	1.209 *	1.715	2.00	7.042	8.51	60.1	170.4	538.3
128.00	1.00	1.06	6.448	7.09	0.00	1.215 *	1.718	2.00	6.945	8.44	59.8	168.2	530.6
130.00	1.00	1.07	6.476	7.12	0.00	1.221 *	1.720	2.00	6.849	8.36	59.6	166.0	522.8
132.00	1.00	1.07	6.504	7.15	0.00	1.227 *	1.723	2.00	6.753	8.28	59.3	163.8	515.0
134.00	1.00	1.07	6.532	7.19	0.00	1.233 *	1.726	2.00	6.656	8.21	59.0	161.5	507.2
136.00	1.00	1.08	6.560	7.22	0.00	1.239 *	1.728	2.00	6.560	8.13	58.7	159.3	499.3
138.00	1.00	1.08	6.588	7.25	0.00	1.246 *	1.731	2.00	6.464	8.05	58.3	157.1	491.5
140.00	1.00	1.09	6.615	7.28	0.00	1.252 *	1.733	2.00	6.367	7.97	58.0	154.8	483.7
142.00	1.00	1.09	6.642	7.31	0.00	1.260 *	1.736	2.00	6.271	7.90	57.7	152.5	475.8
143.75 Bot - Section 4	1.00	1.10	6.665	7.33	0.00	1.266 *	1.738	1.75	5.408	6.85	50.2	131.7	410.0
144.00	1.00	1.10	6.668	7.34	0.00	1.378 *	1.738	0.25	0.774	1.07	7.8	19.0	78.4
144.50 Appurtenance(s)	1.00	1.10	6.675	7.34	0.00	1.380 *	1.739	0.50	1.544	2.13	15.6	37.8	156.3
145.75 RB1	1.00	1.10	6.691	7.36	0.00	1.384 *	1.740	1.25	3.835	5.31	39.1	93.7	387.7
146.00	1.00	1.10	6.695	7.36	0.00	1.388 *	1.741	0.25	0.762	1.06	7.8	18.7	77.1
148.00	1.00	1.11	6.721	7.39	0.00	1.393 *	1.743	2.00	6.045	8.42	62.3	147.3	609.8
148.08 Top - Section 3	1.00	1.11	6.722	7.39	0.00	1.398 *	1.743	0.08	0.250	0.35	2.6	6.1	25.2
149.50 Appurtenance(s)	1.00	1.11	6.740	7.41	0.00	1.396 *	1.745	1.42	4.221	5.89	43.7	103.1	211.8
150.00	1.00	1.11	6.746	7.42	0.00	1.401 *	1.745	0.50	1.478	2.07	15.4	36.2	74.3
151.75 RT1	1.00	1.11	6.769	7.45	0.00	1.406 *	1.747	1.75	5.126	7.21	53.7	125.1	256.9
152.00	1.00	1.11	6.772	7.45	0.00	1.412 *	1.748	0.25	0.726	1.03	7.6	17.8	36.5
154.00	1.00	1.12	6.797	7.48	0.00	1.403 *	1.750	2.00	5.756	8.08	60.4	140.4	288.0
154.50 Appurtenance(s)	1.00	1.12	6.804	7.48	0.00	1.307 *	1.750	0.50	1.424	1.86	13.9	34.9	71.4
155.00 Appurtenance(s)	1.00	1.12	6.810	7.49	0.00	1.309 *	1.751	0.50	1.418	1.86	13.9	34.8	71.1
156.00	1.00	1.12	6.822	7.50	0.00	1.313 *	1.752	1.00	2.818	3.70	27.8	69.0	141.1
158.00	1.00	1.13	6.847	7.53	0.00	1.320 *	1.754	2.00	5.563	7.34	55.3	135.7	277.7
159.50 Appurtenance(s)	1.00	1.13	6.866	7.55	0.00	1.328 *	1.756	1.50	4.109	5.46	41.2	100.4	205.2
160.00	1.00	1.13	6.872	7.56	0.00	1.333 *	1.757	0.50	1.358	1.81	13.7	33.3	67.9
162.00	1.00	1.13	6.896	7.59	0.00	1.339 *	1.759	2.00	5.370	7.19	54.6	131.0	267.4
164.00	1.00	1.14	6.921	7.61	0.00	1.350 *	1.761	2.00	5.274	7.12	54.2	128.6	262.3
164.50 Appurtenance(s)	1.00	1.14	6.927	7.62	0.00	1.356 *	1.761	0.50	1.303	1.77	13.5	32.0	65.0
165.00 Appurtenance(s)	1.00	1.14	6.933	7.63	0.00	1.359 *	1.762	0.50	1.297	1.76	13.4	31.9	64.7
166.00	1.00	1.14	6.945	7.64	0.00	1.200	1.763	1.00	2.576	3.09	23.6	63.1	128.2
168.00	1.00	1.15	6.968	7.67	0.00	1.200	1.765	2.00	5.081	6.10	46.7	123.9	252.0
169.50 Appurtenance(s)	1.00	1.15	6.986	7.68	0.00	1.200	1.767	1.50	3.747	4.50	34.6	91.6	185.8
170.00	1.00	1.15	6.992	7.69	0.00	1.200	1.767	0.50	1.237	1.48	11.4	30.4	61.4
172.00	1.00	1.15	7.015	7.72	0.00	1.200	1.769	2.00	4.888	5.87	45.3	119.1	241.6
174.00	1.00	1.16	7.039	7.74	0.00	1.200	1.771	2.00	4.791	5.75	44.5	116.7	236.4
174.50 Appurtenance(s)	1.00	1.16	7.044	7.75	0.00	1.200	1.772	0.50	1.183	1.42	11.0	29.0	58.5

Wind Loading - Shaft

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 43
	Struct Class: II	



175.00 Appurtenance(s)	1.00	1.16	7.050	7.76	0.00	1.200	1.772	0.50	1.177	1.41	10.9	28.9	58.2
176.00	1.00	1.16	7.062	7.77	0.00	1.200	1.773	1.00	2.335	2.80	21.8	57.1	115.2
178.00	1.00	1.17	7.085	7.79	0.00	1.200	1.775	2.00	4.598	5.52	43.0	111.8	226.0
179.50 Appurtenance(s)	1.00	1.17	7.102	7.81	0.00	1.200	1.777	1.50	3.385	4.06	31.7	82.5	166.3
180.00	1.00	1.17	7.107	7.82	0.00	1.200	1.777	0.50	1.116	1.34	10.5	27.4	54.9
182.00	1.00	1.17	7.130	7.84	0.00	1.200	1.779	2.00	4.405	5.29	41.5	107.0	215.5
184.00	1.00	1.18	7.152	7.87	0.00	1.200	1.781	2.00	4.308	5.17	40.7	104.6	210.3
185.00 Appurtenance(s)	1.00	1.18	7.163	7.88	0.00	1.200	1.782	1.00	2.118	2.54	20.0	51.7	103.5
					Totals:	185.00					5,764.3		66,328.4

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

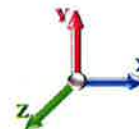
Struct Class: II

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

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00


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	185.00	Cobra Arms	3	7.163	7.879	0.75	1.00	22.13	1498.35	0.000	0.000	174.38	0.00	0.00
2	185.00	Allen Telecom	6	7.185	7.904	0.75	1.00	5.22	306.94	0.000	2.000	41.29	0.00	82.58
3	185.00	Kathrein 782 11056	3	7.185	7.904	0.67	1.00	0.86	19.38	0.000	2.000	6.80	0.00	13.60
4	185.00	Commscope LNX-6515DS	3	7.185	7.904	0.80	1.00	35.53	695.49	0.000	2.000	280.85	0.00	561.70
5	185.00	EMS RR90-17-02DP	3	7.185	7.904	0.79	1.00	12.72	367.89	0.000	2.000	100.57	0.00	201.14
6	185.00	6' Pole Branch	1	7.163	7.879	1.00	1.00	30.37	1003.57	0.000	0.000	239.30	0.00	0.00
7	179.50	6' Pole Branch	1	7.102	7.812	1.00	1.00	86.87	1002.47	0.000	0.000	678.58	0.00	0.00
8	175.00	RFS APXVTM14-C-120	3	7.050	7.755	0.63	0.80	14.17	691.85	0.000	0.000	109.87	0.00	0.00
9	175.00	RFS APXVSPP18-C-A20	3	7.050	7.755	0.66	0.80	21.63	583.31	0.000	0.000	167.73	0.00	0.00
10	175.00	Alcatel Lucent 800 MHz	3	7.050	7.755	0.60	0.80	6.57	352.83	0.000	0.000	50.97	0.00	0.00
11	175.00	Cobra Arms	3	7.050	7.755	0.56	0.75	34.41	1942.80	0.000	0.000	266.85	0.00	0.00
12	175.00	Alcatel Lucent 800 MHz	3	7.050	7.755	0.60	0.80	7.46	-69.63	0.000	0.000	57.87	0.00	0.00
13	175.00	Alcatel Lucent	3	7.050	7.755	0.60	0.80	8.78	589.63	0.000	0.000	68.08	0.00	0.00
14	175.00	Alcatel Lucent 1900 MHz	3	7.050	7.755	0.60	0.80	9.38	397.38	0.000	0.000	72.75	0.00	0.00
15	175.00	RFS ACU-A20-N RETs	4	7.050	7.755	0.54	0.80	0.95	17.05	0.000	0.000	7.34	0.00	0.00
16	174.50	7' Pole Branch	1	7.044	7.749	1.00	1.00	28.29	1546.23	0.000	0.000	219.21	0.00	0.00
17	169.50	8' Pole Branch	1	6.986	7.685	1.00	1.00	65.92	1884.75	0.000	0.000	506.56	0.00	0.00
18	165.00	DB-B1-6C-12AB-0Z	2	6.933	7.626	0.74	0.80	7.23	231.46	0.000	0.000	55.11	0.00	0.00
19	165.00	RRH4X45-AWS	3	6.933	7.626	0.66	0.80	6.52	484.16	0.000	0.000	49.70	0.00	0.00
20	165.00	SBNHH-1D65B	6	6.933	7.626	0.68	0.80	38.65	1520.73	0.000	0.000	294.75	0.00	0.00
21	165.00	Antel LPA 80063/6CF	2	6.933	7.626	0.75	0.80	16.49	647.23	0.000	0.000	125.78	0.00	0.00
22	165.00	Swedcom SC-E 6014 Rev	4	6.933	7.626	0.78	0.80	15.57	346.38	0.000	0.000	118.71	0.00	0.00
23	165.00	Cobra Arms	3	6.933	7.626	0.56	0.75	34.34	1937.21	0.000	0.000	261.88	0.00	0.00
24	165.00	RRH2X60-700	3	6.933	7.626	0.62	0.80	8.04	380.04	0.000	0.000	61.34	0.00	0.00
25	164.50	8' Pole Branch	1	6.927	7.619	1.00	1.00	45.59	1882.74	0.000	0.000	347.35	0.00	0.00
26	159.50	9' Pole Branch	1	6.866	7.552	1.00	1.00	84.51	2220.08	0.000	0.000	638.25	0.00	0.00
27	155.00	Powerwave	3	6.810	7.491	0.62	0.80	20.54	545.98	0.000	0.000	153.86	0.00	0.00
28	155.00	Cobra Arms	3	6.810	7.491	0.56	0.75	34.27	1931.31	0.000	0.000	256.71	0.00	0.00
29	155.00	Powerwave 7770.00	6	6.810	7.491	0.62	0.80	24.59	1066.32	0.000	0.000	184.23	0.00	0.00
30	155.00	Ericsson RRUS-11 RRUs	6	6.810	7.491	0.60	0.80	21.33	783.33	0.000	0.000	159.77	0.00	0.00
31	155.00	Powerwave LGP 21401	6	6.810	7.491	0.40	0.80	2.96	296.20	0.000	0.000	22.18	0.00	0.00
32	155.00	Powerwave LGP21903	6	6.810	7.491	0.40	0.80	1.61	75.93	0.000	0.000	12.03	0.00	0.00
33	155.00	Raycap DC6-48-60-18-8F	1	6.810	7.491	0.80	0.80	1.74	82.49	0.000	0.000	13.02	0.00	0.00
34	154.50	9' Pole Branch	1	6.804	7.484	1.00	1.00	62.78	2217.57	0.000	0.000	469.86	0.00	0.00
35	149.50	10' Pole Branch	1	6.740	7.414	1.00	1.00	93.62	2350.45	0.000	0.000	694.07	0.00	0.00
36	144.50	11' Pole Branch	1	6.675	7.342	1.00	1.00	79.86	2415.27	0.000	0.000	586.35	0.00	0.00
Totals:									34,245.14			7,553.92		

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

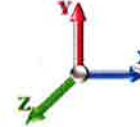


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 28

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
2.00		70.78	1038.24	0.00	0.00
4.00		70.39	1110.20	0.00	0.00
6.00		69.93	1177.13	0.00	0.00
8.00		69.46	1176.90	0.00	0.00
10.00		68.97	1174.94	0.00	0.00
12.00		68.47	1171.84	0.00	0.00
14.00		67.96	1167.93	0.00	0.00
16.00		67.45	1163.42	0.00	0.00
18.00		66.93	1158.44	0.00	0.00
20.00		66.41	1153.08	0.00	0.00
22.00		65.89	1147.40	0.00	0.00
24.00		65.37	1141.46	0.00	0.00
26.00		64.85	1135.30	0.00	0.00
28.00		64.32	1128.95	0.00	0.00
30.00		63.85	1122.42	0.00	0.00
32.00		64.50	1115.74	0.00	0.00
34.00		65.08	1108.93	0.00	0.00
36.00		65.59	1102.00	0.00	0.00
38.00		66.04	1094.96	0.00	0.00
40.00		66.44	1087.83	0.00	0.00
42.00		66.79	1080.60	0.00	0.00
44.00		67.09	1073.29	0.00	0.00
46.00		67.34	1065.90	0.00	0.00
46.17		5.59	88.52	0.00	0.00
48.00		62.77	1590.76	0.00	0.00
50.00		68.69	1721.90	0.00	0.00
52.00		68.84	1707.82	0.00	0.00
54.00		68.95	1693.67	0.00	0.00
56.00		69.03	1041.39	0.00	0.00
58.00		69.08	1033.66	0.00	0.00
60.00		69.10	1025.88	0.00	0.00
62.00		69.09	1018.06	0.00	0.00
64.00		69.05	1010.19	0.00	0.00
66.00		68.99	1002.28	0.00	0.00
68.00		68.90	994.33	0.00	0.00
70.00		68.79	986.35	0.00	0.00
72.00		68.65	978.34	0.00	0.00
74.00		68.50	970.29	0.00	0.00
76.00		68.32	962.20	0.00	0.00
78.00		68.12	954.09	0.00	0.00
80.00		67.90	945.95	0.00	0.00
82.00		67.66	937.78	0.00	0.00
84.00		67.41	929.59	0.00	0.00
86.00		67.13	921.37	0.00	0.00
88.00		66.84	913.12	0.00	0.00
90.00		66.53	904.85	0.00	0.00

Total Applied Force Summary

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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92.00		66.21	896.56	0.00	0.00
94.00		65.87	888.25	0.00	0.00
94.08		2.73	36.87	0.00	0.00
96.00		63.72	1278.88	0.00	0.00
98.00		66.14	1320.81	0.00	0.00
100.00		65.77	1306.86	0.00	0.00
100.17		5.45	108.35	0.00	0.00
102.00		59.90	728.24	0.00	0.00
104.00		64.97	787.19	0.00	0.00
106.00		64.54	779.70	0.00	0.00
108.00		64.11	772.19	0.00	0.00
110.00		63.66	764.66	0.00	0.00
112.00		63.20	757.11	0.00	0.00
114.00		62.73	749.55	0.00	0.00
116.00		62.25	741.97	0.00	0.00
118.00		61.75	734.38	0.00	0.00
120.00		61.25	726.77	0.00	0.00
122.00		60.73	719.15	0.00	0.00
124.00		60.38	711.51	0.00	0.00
126.00		60.11	703.86	0.00	0.00
128.00		59.83	696.20	0.00	0.00
130.00		59.55	688.52	0.00	0.00
132.00		59.26	680.84	0.00	0.00
134.00		58.96	673.13	0.00	0.00
136.00		58.66	665.42	0.00	0.00
138.00		58.34	657.70	0.00	0.00
140.00		58.03	649.96	0.00	0.00
142.00		57.70	642.21	0.00	0.00
143.75		50.21	555.69	0.00	0.00
144.00		7.83	101.25	0.00	0.00
144.50	(1) attachments	601.99	2617.24	0.00	0.00
145.75		39.06	501.80	0.00	0.00
146.00		7.79	99.93	0.00	0.00
148.00		62.26	792.60	0.00	0.00
148.08		2.58	32.84	0.00	0.00
149.50	(1) attachments	737.74	2691.81	0.00	0.00
150.00		15.36	120.01	0.00	0.00
151.75		53.68	416.99	0.00	0.00
152.00		7.64	59.36	0.00	0.00
154.00		60.39	469.10	0.00	0.00
154.50	(1) attachments	483.79	2330.74	0.00	0.00
155.00	(31) attachments	815.70	4894.40	0.00	0.00
156.00		27.76	208.62	0.00	0.00
158.00		55.30	412.89	0.00	0.00
159.50	(1) attachments	679.46	2526.65	0.00	0.00
160.00		13.68	101.70	0.00	0.00
162.00		54.56	402.79	0.00	0.00
164.00		54.18	397.72	0.00	0.00
164.50	(1) attachments	360.82	1981.59	0.00	0.00
165.00	(23) attachments	980.71	5645.75	0.00	0.00
166.00		23.62	168.41	0.00	0.00
168.00		46.73	332.40	0.00	0.00
169.50	(1) attachments	541.11	2130.91	0.00	0.00
170.00		11.42	81.56	0.00	0.00
172.00		45.26	322.15	0.00	0.00
174.00		44.51	317.01	0.00	0.00
174.50	(1) attachments	230.20	1624.89	0.00	0.00

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 47



175.00	(25) attachments	812.40	4583.56	0.00	0.00
176.00		21.77	152.41	0.00	0.00
178.00		43.00	300.37	0.00	0.00
179.50	(1) attachments	710.31	1224.59	0.00	0.00
180.00		10.47	73.54	0.00	0.00
182.00		41.46	290.04	0.00	0.00
184.00		40.67	284.86	0.00	0.00
185.00	(19) attachments	863.22	4032.40	0.00	859.02
Totals:		13,318.27	114,376.75	0.00	859.02

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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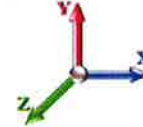


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 28

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)
2.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.027	0.000	4.256	0.00	16.81
4.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.37	0.00	0.041	0.000	4.256	0.00	22.48
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.74	0.00	0.041	0.000	4.256	0.00	17.78
6.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.75	0.00	0.055	0.000	4.256	0.00	46.19
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.75	0.00	0.055	0.000	4.256	0.00	18.40
8.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.76	0.00	0.056	0.000	4.256	0.00	47.10
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.77	0.00	0.056	0.000	4.256	0.00	18.86
10.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.77	0.00	0.056	0.000	4.256	0.00	47.83
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.78	0.00	0.056	0.000	4.256	0.00	19.23
12.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.78	0.00	0.057	0.000	4.256	0.00	48.45
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.79	0.00	0.057	0.000	4.256	0.00	19.54
14.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.79	0.00	0.057	0.000	4.256	0.00	48.98
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.79	0.00	0.057	0.000	4.256	0.00	19.81
16.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.80	0.00	0.057	0.000	4.256	0.00	49.44
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.80	0.00	0.057	0.000	4.256	0.00	20.05
18.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.80	0.00	0.058	0.000	4.256	0.00	49.86
18.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.80	0.00	0.058	0.000	4.256	0.00	20.27
20.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.81	0.00	0.058	0.000	4.256	0.00	50.24
20.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.81	0.00	0.058	0.000	4.256	0.00	20.47
22.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.81	0.00	0.059	0.000	4.256	0.00	50.59
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.81	0.00	0.059	0.000	4.256	0.00	20.65
24.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.81	0.00	0.059	0.000	4.256	0.00	50.91
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.82	0.00	0.059	0.000	4.256	0.00	20.81
26.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.82	0.00	0.060	0.000	4.256	0.00	51.21
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.82	0.00	0.060	0.000	4.256	0.00	20.97
28.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.82	0.00	0.061	0.000	4.256	0.00	51.49
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.83	0.00	0.061	0.000	4.256	0.00	21.12
30.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.83	0.00	0.061	0.000	4.260	0.00	51.75
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.83	0.00	0.061	0.000	4.260	0.00	21.25
32.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.83	0.00	0.062	0.000	4.339	0.00	52.00
32.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.83	0.00	0.062	0.000	4.339	0.00	21.38
34.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.83	0.00	0.062	0.000	4.415	0.00	52.24
34.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.83	0.00	0.062	0.000	4.415	0.00	21.51
36.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.83	0.00	0.063	0.000	4.487	0.00	52.46
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.84	0.00	0.063	0.000	4.487	0.00	21.62
38.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.84	0.00	0.063	0.000	4.557	0.00	52.67
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.84	0.00	0.063	0.000	4.557	0.00	21.74
40.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.84	0.00	0.064	0.000	4.625	0.00	52.87
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.84	0.00	0.064	0.000	4.625	0.00	21.84
42.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.84	0.00	0.065	0.000	4.689	0.00	53.07
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.85	0.00	0.065	0.000	4.689	0.00	21.95
44.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.84	0.00	0.065	0.000	4.752	0.00	53.25
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.85	0.00	0.065	0.000	4.752	0.00	22.04
46.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.85	0.00	0.066	0.000	4.813	0.00	53.43
46.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.85	0.00	0.066	0.000	4.813	0.00	22.14
46.17	1 5/8" Coax	Yes	0.17	0.000	1.98	0.07	0.00	0.066	0.000	4.818	0.00	4.45
46.17	1 5/8" Hybrid	Yes	0.17	0.000	2.00	0.07	0.00	0.066	0.000	4.818	0.00	1.85

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 49



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

Iterations 28

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)
48.00	1 5/8" Coax	Yes	1.83	0.000	1.98	0.78	0.00	0.066	0.000	4.872	0.00	49.14
48.00	1 5/8" Hybrid	Yes	1.83	0.000	2.00	0.78	0.00	0.066	0.000	4.872	0.00	20.38
50.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.85	0.00	0.067	0.000	4.929	0.00	53.77
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.85	0.00	0.067	0.000	4.929	0.00	22.32
52.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.85	0.00	0.068	0.000	4.984	0.00	53.93
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.86	0.00	0.068	0.000	4.984	0.00	22.40
54.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.86	0.00	0.068	0.000	5.039	0.00	54.09
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.86	0.00	0.068	0.000	5.039	0.00	22.49
56.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.86	0.00	0.068	0.000	5.091	0.00	54.24
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.86	0.00	0.068	0.000	5.091	0.00	22.57
58.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.86	0.00	0.069	0.000	5.142	0.00	54.38
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.86	0.00	0.069	0.000	5.142	0.00	22.64
60.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.86	0.00	0.069	0.000	5.193	0.00	54.53
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.86	0.00	0.069	0.000	5.193	0.00	22.72
62.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.86	0.00	0.070	0.000	5.241	0.00	54.66
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.87	0.00	0.070	0.000	5.241	0.00	22.79
64.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.86	0.00	0.071	0.000	5.289	0.00	54.80
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.87	0.00	0.071	0.000	5.289	0.00	22.86
66.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.87	0.00	0.072	0.000	5.336	0.00	54.93
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.87	0.00	0.072	0.000	5.336	0.00	22.93
68.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.87	0.00	0.072	0.000	5.382	0.00	55.05
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.87	0.00	0.072	0.000	5.382	0.00	23.00
70.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.87	0.00	0.073	0.000	5.426	0.00	55.18
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.87	0.00	0.073	0.000	5.426	0.00	23.07
72.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.87	0.00	0.074	0.000	5.470	0.00	55.30
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.87	0.00	0.074	0.000	5.470	0.00	23.13
74.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.87	0.00	0.075	0.000	5.513	0.00	55.42
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.88	0.00	0.075	0.000	5.513	0.00	23.20
76.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.87	0.00	0.076	0.000	5.555	0.00	55.53
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.88	0.00	0.076	0.000	5.555	0.00	23.26
78.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.87	0.00	0.076	0.000	5.597	0.00	55.64
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.88	0.00	0.076	0.000	5.597	0.00	23.32
80.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.88	0.00	0.077	0.000	5.637	0.00	55.75
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.88	0.00	0.077	0.000	5.637	0.00	23.38
82.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.88	0.00	0.078	0.000	5.677	0.00	55.86
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.88	0.00	0.078	0.000	5.677	0.00	23.43
84.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.88	0.00	0.079	0.000	5.716	0.00	55.96
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.88	0.00	0.079	0.000	5.716	0.00	23.49
86.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.88	0.00	0.080	0.000	5.755	0.00	56.07
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.88	0.00	0.080	0.000	5.755	0.00	23.55
88.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.88	0.00	0.081	0.000	5.793	0.00	56.17
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.88	0.00	0.081	0.000	5.793	0.00	23.60
90.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.88	0.00	0.082	0.000	5.830	0.00	56.27
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.89	0.00	0.082	0.000	5.830	0.00	23.65
92.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.88	0.00	0.083	0.000	5.867	0.00	56.36
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.89	0.00	0.083	0.000	5.867	0.00	23.71
94.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.89	0.00	0.084	0.000	5.903	0.00	56.46

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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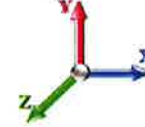


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 28

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)
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.89	0.00	0.084	0.000	5.903	0.00	23.76
94.08	1 5/8" Coax	Yes	0.08	0.000	1.98	0.04	0.00	0.085	0.000	5.905	0.00	2.35
94.08	1 5/8" Hybrid	Yes	0.08	0.000	2.00	0.04	0.00	0.085	0.000	5.905	0.00	0.99
96.00	1 5/8" Coax	Yes	1.92	0.000	1.98	0.85	0.00	0.085	0.000	5.939	0.00	54.20
96.00	1 5/8" Hybrid	Yes	1.92	0.000	2.00	0.85	0.00	0.085	0.000	5.939	0.00	22.82
98.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.89	0.00	0.086	0.000	5.974	0.00	56.64
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.89	0.00	0.086	0.000	5.974	0.00	23.86
100.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.89	0.00	0.087	0.000	6.008	0.00	56.73
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.89	0.00	0.087	0.000	6.008	0.00	23.91
100.17	1 5/8" Coax	Yes	0.17	0.000	1.98	0.07	0.00	0.088	0.000	6.011	0.00	4.73
100.17	1 5/8" Hybrid	Yes	0.17	0.000	2.00	0.07	0.00	0.088	0.000	6.011	0.00	1.99
102.00	1 5/8" Coax	Yes	1.83	0.000	1.98	0.82	0.00	0.087	0.000	6.043	0.00	52.09
102.00	1 5/8" Hybrid	Yes	1.83	0.000	2.00	0.82	0.00	0.087	0.000	6.043	0.00	21.96
104.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.89	0.00	0.088	0.000	6.076	0.00	56.91
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.89	0.00	0.088	0.000	6.076	0.00	24.00
106.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.89	0.00	0.089	0.000	6.109	0.00	57.00
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.089	0.000	6.109	0.00	24.05
108.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.89	0.00	0.090	0.000	6.142	0.00	57.08
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.090	0.000	6.142	0.00	24.09
110.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.89	0.00	0.092	0.000	6.174	0.00	57.16
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.092	0.000	6.174	0.00	24.14
112.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.89	0.00	0.093	0.000	6.206	0.00	57.25
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.093	0.000	6.206	0.00	24.18
114.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.094	0.000	6.238	0.00	57.33
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.094	0.000	6.238	0.00	24.23
116.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.095	0.000	6.269	0.00	57.40
116.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.095	0.000	6.269	0.00	24.27
118.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.097	0.000	6.299	0.00	57.48
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.097	0.000	6.299	0.00	24.31
120.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.098	0.000	6.330	0.00	57.56
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.098	0.000	6.330	0.00	24.35
122.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.100	0.000	6.360	0.00	57.64
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.100	0.000	6.360	0.00	24.39
124.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.101	1.003	6.389	0.00	57.71
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.90	0.00	0.101	1.003	6.389	0.00	24.43
126.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.103	1.008	6.419	0.00	57.78
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.103	1.008	6.419	0.00	24.47
128.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.104	1.012	6.448	0.00	57.86
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.104	1.012	6.448	0.00	24.51
130.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.106	1.017	6.476	0.00	57.93
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.106	1.017	6.476	0.00	24.55
132.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.90	0.00	0.107	1.022	6.504	0.00	58.00
132.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.107	1.022	6.504	0.00	24.59
134.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.109	1.027	6.532	0.00	58.07
134.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.109	1.027	6.532	0.00	24.63
136.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.111	1.033	6.560	0.00	58.14
136.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.111	1.033	6.560	0.00	24.67

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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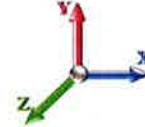


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 28

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)
138.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.113	1.038	6.588	0.00	58.21
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.113	1.038	6.588	0.00	24.70
140.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.115	1.044	6.615	0.00	58.27
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.115	1.044	6.615	0.00	24.74
142.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.117	1.050	6.642	0.00	58.34
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.117	1.050	6.642	0.00	24.78
143.75	1 5/8" Coax	Yes	1.75	0.000	1.98	0.80	0.00	0.118	1.055	6.665	0.00	51.10
143.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.80	0.00	0.118	1.055	6.665	0.00	21.71
144.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.11	0.00	0.149	1.148	6.668	0.00	7.30
144.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.11	0.00	0.149	1.148	6.668	0.00	3.10
144.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.09	0.00	0.149	1.148	6.668	0.00	2.00
144.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.150	1.150	6.675	0.00	14.61
144.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.23	0.00	0.150	1.150	6.675	0.00	6.21
144.50	1" Reinforcing plate	Yes	0.50	0.000	1.00	0.19	0.00	0.150	1.150	6.675	0.00	4.00
145.75	1 5/8" Coax	Yes	1.25	0.000	1.98	0.57	0.00	0.151	1.153	6.691	0.00	36.54
145.75	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.57	0.00	0.151	1.153	6.691	0.00	15.53
145.75	1" Reinforcing plate	Yes	1.25	0.000	1.00	0.47	0.00	0.151	1.153	6.691	0.00	10.01
146.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.11	0.00	0.152	1.156	6.695	0.00	7.31
146.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.11	0.00	0.152	1.156	6.695	0.00	3.11
146.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.09	0.00	0.152	1.156	6.695	0.00	2.00
148.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.154	1.161	6.721	0.00	58.53
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.91	0.00	0.154	1.161	6.721	0.00	24.88
148.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.75	0.00	0.154	1.161	6.721	0.00	16.06
148.08	1 5/8" Coax	Yes	0.08	0.000	1.98	0.04	0.00	0.155	1.165	6.722	0.00	2.44
148.08	1 5/8" Hybrid	Yes	0.08	0.000	2.00	0.04	0.00	0.155	1.165	6.722	0.00	1.04
148.08	1" Reinforcing plate	Yes	0.08	0.000	1.00	0.03	0.00	0.155	1.165	6.722	0.00	0.67
149.50	1 5/8" Coax	Yes	1.42	0.000	1.98	0.65	0.00	0.154	1.163	6.740	0.00	41.49
149.50	1 5/8" Hybrid	Yes	1.42	0.000	2.00	0.65	0.00	0.154	1.163	6.740	0.00	17.64
149.50	1" Reinforcing plate	Yes	1.42	0.000	1.00	0.53	0.00	0.154	1.163	6.740	0.00	11.39
150.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.156	1.167	6.746	0.00	14.65
150.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.23	0.00	0.156	1.167	6.746	0.00	6.23
150.00	1" Reinforcing plate	Yes	0.50	0.000	1.00	0.19	0.00	0.156	1.167	6.746	0.00	4.02
151.75	1 5/8" Coax	Yes	1.75	0.000	1.98	0.80	0.00	0.157	1.172	6.769	0.00	51.32
151.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.80	0.00	0.157	1.172	6.769	0.00	21.83
151.75	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.66	0.00	0.157	1.172	6.769	0.00	14.10
152.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.11	0.00	0.159	1.176	6.772	0.00	7.33
152.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.11	0.00	0.159	1.176	6.772	0.00	3.12
152.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.09	0.00	0.159	1.176	6.772	0.00	2.01
154.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.156	1.169	6.797	0.00	58.72
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.92	0.00	0.156	1.169	6.797	0.00	24.98
154.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.66	0.00	0.156	1.169	6.797	0.00	14.13
154.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.130	1.089	6.804	0.00	14.68
154.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.23	0.00	0.130	1.089	6.804	0.00	6.25
155.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.130	1.091	6.810	0.00	14.69
155.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.23	0.00	0.130	1.091	6.810	0.00	6.25
156.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.46	0.00	0.131	1.094	6.822	0.00	29.39
156.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.46	0.00	0.131	1.094	6.822	0.00	12.51

Linear Appurtenance Segment Forces (Factored)

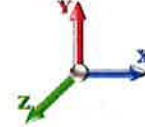
Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 52
	Struct Class: II	



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

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 28

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)
158.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.91	0.00	0.133	1.100	6.847	0.00	58.84
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.92	0.00	0.133	1.100	6.847	0.00	25.05
159.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.69	0.00	0.136	1.107	6.866	0.00	44.16
159.50	1 5/8" Hybrid	Yes	1.50	0.000	2.00	0.69	0.00	0.136	1.107	6.866	0.00	18.81
160.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.137	1.111	6.872	0.00	14.73
160.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.23	0.00	0.137	1.111	6.872	0.00	6.27
162.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.92	0.00	0.139	1.116	6.896	0.00	58.96
162.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.92	0.00	0.139	1.116	6.896	0.00	25.12
164.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.92	0.00	0.142	1.125	6.921	0.00	59.02
164.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.92	0.00	0.142	1.125	6.921	0.00	25.15
164.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.143	1.130	6.927	0.00	14.76
164.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.23	0.00	0.143	1.130	6.927	0.00	6.29
165.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.144	1.132	6.933	0.00	14.76
165.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.23	0.00	0.144	1.132	6.933	0.00	6.29
166.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.46	0.00	0.072	0.000	6.945	0.00	29.54
168.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.92	0.00	0.073	0.000	6.968	0.00	59.13
169.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.69	0.00	0.075	0.000	6.986	0.00	44.38
170.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.076	0.000	6.992	0.00	14.80
172.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.92	0.00	0.077	0.000	7.015	0.00	59.25
174.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.92	0.00	0.079	0.000	7.039	0.00	59.30
174.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.080	0.000	7.044	0.00	14.83
175.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.080	0.000	7.050	0.00	14.83
176.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.46	0.00	0.081	0.000	7.062	0.00	29.68
178.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.92	0.00	0.082	0.000	7.085	0.00	59.41
179.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.69	0.00	0.084	0.000	7.102	0.00	44.59
180.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.23	0.00	0.085	0.000	7.107	0.00	14.87
182.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.92	0.00	0.087	0.000	7.130	0.00	59.52
184.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.92	0.00	0.089	0.000	7.152	0.00	59.57
185.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.46	0.00	0.091	0.000	7.163	0.00	29.80
Totals:											0.0	7,036.2

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 53

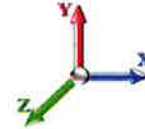


Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 28

Dead Load Factor 1.20

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	-114.3	-13.33	0.00	-1893.9	0.00	1893.95	6186.26	3093.13	18350.4	9188.88	0.00	0.000	0.000	0.225
2.00	-113.3	-13.30	0.00	-1867.2	0.00	1867.28	6161.28	3080.64	18129.8	9078.39	0.00	-0.016	0.000	0.224
4.00	-112.2	-13.26	0.00	-1840.6	0.00	1840.69	6135.91	3067.96	17909.2	8967.93	0.01	-0.033	0.000	0.224
6.00	-111.0	-13.22	0.00	-1814.1	0.00	1814.18	6110.15	3055.07	17688.7	8857.51	0.03	-0.049	0.000	0.223
8.00	-109.8	-13.18	0.00	-1787.7	0.00	1787.74	6084.00	3042.00	17468.3	8747.14	0.06	-0.066	0.000	0.222
10.00	-108.6	-13.14	0.00	-1761.3	0.00	1761.38	6057.45	3028.73	17248.0	8636.84	0.09	-0.083	0.000	0.222
12.00	-107.5	-13.10	0.00	-1735.1	0.00	1735.10	6030.52	3015.26	17027.9	8526.61	0.13	-0.100	0.000	0.221
14.00	-106.3	-13.07	0.00	-1708.8	0.00	1708.89	6003.19	3001.60	16807.9	8416.48	0.17	-0.118	0.000	0.221
16.00	-105.1	-13.03	0.00	-1682.7	0.00	1682.76	5975.47	2987.74	16588.2	8306.46	0.23	-0.135	0.000	0.220
18.00	-104.0	-12.99	0.00	-1656.7	0.00	1656.70	5947.37	2973.68	16368.7	8196.55	0.29	-0.153	0.000	0.220
20.00	-102.8	-12.95	0.00	-1630.7	0.00	1630.72	5918.87	2959.43	16149.5	8086.79	0.35	-0.170	0.000	0.219
22.00	-101.6	-12.92	0.00	-1604.8	0.00	1604.82	5889.98	2944.99	15930.6	7977.17	0.43	-0.188	0.000	0.218
24.00	-100.5	-12.88	0.00	-1578.9	0.00	1578.99	5860.70	2930.35	15712.0	7867.72	0.51	-0.207	0.000	0.218
26.00	-99.41	-12.84	0.00	-1553.2	0.00	1553.23	5831.03	2915.51	15493.8	7758.44	0.60	-0.225	0.000	0.217
28.00	-98.28	-12.80	0.00	-1527.5	0.00	1527.55	5800.97	2900.48	15276.0	7649.36	0.70	-0.243	0.000	0.217
30.00	-97.15	-12.77	0.00	-1501.9	0.00	1501.94	5770.52	2885.26	15058.5	7540.48	0.81	-0.262	0.000	0.216
32.00	-96.03	-12.73	0.00	-1476.4	0.00	1476.41	5739.67	2869.84	14841.5	7431.82	0.92	-0.281	0.000	0.215
34.00	-94.92	-12.69	0.00	-1450.9	0.00	1450.95	5708.44	2854.22	14625.0	7323.39	1.04	-0.300	0.000	0.215
36.00	-93.81	-12.65	0.00	-1425.5	0.00	1425.57	5676.81	2838.41	14409.0	7215.22	1.17	-0.319	0.000	0.214
38.00	-92.71	-12.61	0.00	-1400.2	0.00	1400.27	5644.80	2822.40	14193.5	7107.30	1.31	-0.339	0.000	0.213
40.00	-91.62	-12.57	0.00	-1375.0	0.00	1375.05	5612.39	2806.20	13978.5	6999.66	1.46	-0.359	0.000	0.213
42.00	-90.54	-12.53	0.00	-1349.9	0.00	1349.91	5579.60	2789.80	13764.1	6892.30	1.61	-0.379	0.000	0.212
44.00	-89.46	-12.48	0.00	-1324.8	0.00	1324.86	5546.41	2773.20	13550.3	6785.25	1.78	-0.399	0.000	0.211
46.00	-88.39	-12.43	0.00	-1299.8	0.00	1299.89	5512.83	2756.41	13337.2	6678.52	1.95	-0.419	0.000	0.211
46.17	-88.30	-12.44	0.00	-1297.8	0.00	1297.82	5510.01	2755.01	13319.4	6669.64	1.96	-0.421	0.000	0.211
48.00	-86.71	-12.39	0.00	-1275.0	0.00	1275.03	5478.86	2739.43	13124.7	6572.12	2.13	-0.439	0.000	0.210
50.00	-84.98	-12.34	0.00	-1250.2	0.00	1250.25	5444.50	2722.25	12912.9	6466.06	2.32	-0.460	0.000	0.209
52.00	-83.27	-12.29	0.00	-1225.5	0.00	1225.57	5409.75	2704.87	12701.8	6360.36	2.51	-0.481	0.000	0.208
54.00	-81.57	-12.23	0.00	-1201.0	0.00	1201.00	5427.99	2713.99	12812.2	6415.65	2.72	-0.502	0.000	0.202
56.00	-80.53	-12.18	0.00	-1176.5	0.00	1176.53	5393.05	2696.53	12601.5	6310.13	2.93	-0.523	0.000	0.201
58.00	-79.49	-12.13	0.00	-1152.1	0.00	1152.16	5357.72	2678.86	12391.5	6204.99	3.16	-0.544	0.000	0.201
60.00	-78.46	-12.08	0.00	-1127.8	0.00	1127.89	5322.01	2661.00	12182.3	6100.24	3.39	-0.565	0.000	0.200
62.00	-77.44	-12.03	0.00	-1103.7	0.00	1103.73	5285.90	2642.95	11974.0	5995.90	3.63	-0.586	0.000	0.199
64.00	-76.42	-11.98	0.00	-1079.6	0.00	1079.66	5249.40	2624.70	11766.4	5891.98	3.88	-0.607	0.000	0.198
66.00	-75.42	-11.93	0.00	-1055.7	0.00	1055.70	5212.50	2606.25	11559.8	5788.50	4.14	-0.628	0.000	0.197
68.00	-74.42	-11.88	0.00	-1031.8	0.00	1031.84	5175.22	2587.61	11354.0	5685.46	4.41	-0.650	0.000	0.196
70.00	-73.43	-11.83	0.00	-1008.0	0.00	1008.08	5137.55	2568.77	11149.2	5582.89	4.69	-0.671	0.000	0.195
72.00	-72.45	-11.77	0.00	-984.43	0.00	984.43	5099.49	2549.74	10945.3	5480.80	4.97	-0.693	0.000	0.194
74.00	-71.47	-11.72	0.00	-960.88	0.00	960.88	5061.03	2530.52	10742.4	5379.19	5.27	-0.715	0.000	0.193
76.00	-70.51	-11.67	0.00	-937.44	0.00	937.44	5022.19	2511.09	10540.5	5278.10	5.57	-0.738	0.000	0.192
78.00	-69.55	-11.61	0.00	-914.11	0.00	914.11	4982.95	2491.47	10339.6	5177.52	5.89	-0.760	0.000	0.191
80.00	-68.60	-11.56	0.00	-890.88	0.00	890.88	4943.32	2471.66	10139.8	5077.48	6.21	-0.783	0.000	0.189
82.00	-67.66	-11.51	0.00	-867.76	0.00	867.76	4903.30	2451.65	9941.18	4977.98	6.54	-0.806	0.000	0.188
84.00	-66.73	-11.45	0.00	-844.74	0.00	844.74	4862.90	2431.45	9743.60	4879.04	6.88	-0.829	0.000	0.187
86.00	-65.80	-11.40	0.00	-821.84	0.00	821.84	4822.10	2411.05	9547.17	4780.68	7.24	-0.852	0.000	0.186
88.00	-64.88	-11.35	0.00	-799.04	0.00	799.04	4780.91	2390.45	9351.91	4682.91	7.60	-0.875	0.000	0.184
90.00	-63.98	-11.29	0.00	-776.34	0.00	776.34	4739.33	2369.66	9157.86	4585.74	7.97	-0.899	0.000	0.183
92.00	-63.08	-11.24	0.00	-753.76	0.00	753.76	4697.35	2348.68	8965.05	4489.19	8.35	-0.923	0.000	0.181

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 54



94.00	-62.19	-11.17	0.00	-731.28	0.00	731.28	4654.99	2327.50	8773.49	4393.27	8.74	-0.947	0.000	0.180
94.08	-62.15	-11.18	0.00	-730.35	0.00	730.35	4653.22	2326.61	8765.54	4389.28	8.76	-0.948	0.000	0.180
96.00	-60.86	-11.12	0.00	-708.92	0.00	708.92	4612.24	2306.12	8583.22	4297.99	9.15	-0.971	0.000	0.178
98.00	-59.54	-11.06	0.00	-686.68	0.00	686.68	4569.09	2284.55	8394.27	4203.37	9.56	-0.995	0.000	0.176
100.00	-58.23	-10.98	0.00	-664.57	0.00	664.57	4525.56	2262.78	8206.66	4109.43	9.98	-1.019	0.000	0.175
100.17	-58.12	-10.99	0.00	-662.74	0.00	662.74	3757.39	1878.70	6942.18	3476.25	10.02	-1.021	0.000	0.206
102.00	-57.39	-10.94	0.00	-642.60	0.00	642.60	3727.29	1863.64	6805.30	3407.71	10.41	-1.044	0.000	0.204
104.00	-56.60	-10.89	0.00	-620.72	0.00	620.72	3694.07	1847.03	6656.80	3333.35	10.86	-1.071	0.000	0.202
106.00	-55.82	-10.83	0.00	-598.95	0.00	598.95	3660.46	1830.23	6509.18	3259.43	11.31	-1.098	0.000	0.199
108.00	-55.04	-10.78	0.00	-577.28	0.00	577.28	3626.46	1813.23	6362.47	3185.96	11.78	-1.126	0.000	0.196
110.00	-54.27	-10.73	0.00	-555.72	0.00	555.72	3592.07	1796.03	6216.70	3112.97	12.25	-1.153	0.000	0.194
112.00	-53.51	-10.68	0.00	-534.26	0.00	534.26	3557.29	1778.64	6071.91	3040.47	12.74	-1.181	0.000	0.191
114.00	-52.76	-10.62	0.00	-512.91	0.00	512.91	3522.12	1761.06	5928.11	2968.46	13.24	-1.208	0.000	0.188
116.00	-52.01	-10.57	0.00	-491.66	0.00	491.66	3486.55	1743.28	5785.33	2896.97	13.76	-1.236	0.000	0.185
118.00	-51.27	-10.52	0.00	-470.53	0.00	470.53	3450.60	1725.30	5643.61	2826.00	14.28	-1.263	0.000	0.181
120.00	-50.54	-10.46	0.00	-449.49	0.00	449.49	3414.26	1707.13	5502.97	2755.57	14.82	-1.291	0.000	0.178
122.00	-49.82	-10.41	0.00	-428.57	0.00	428.57	3377.52	1688.76	5363.43	2685.70	15.36	-1.318	0.000	0.174
124.00	-49.11	-10.36	0.00	-407.75	0.00	407.75	3340.40	1670.20	5225.04	2616.40	15.92	-1.346	0.000	0.171
126.00	-48.40	-10.30	0.00	-387.04	0.00	387.04	3302.88	1651.44	5087.80	2547.68	16.49	-1.373	0.000	0.167
128.00	-47.70	-10.25	0.00	-366.43	0.00	366.43	3264.97	1632.49	4951.76	2479.56	17.07	-1.400	0.000	0.162
130.00	-47.01	-10.19	0.00	-345.94	0.00	345.94	3220.40	1610.20	4807.57	2407.36	17.66	-1.426	0.000	0.158
132.00	-46.32	-10.14	0.00	-325.55	0.00	325.55	3169.61	1584.80	4656.37	2331.65	18.27	-1.452	0.000	0.154
134.00	-45.65	-10.08	0.00	-305.28	0.00	305.28	3118.82	1559.41	4507.59	2257.15	18.88	-1.478	0.000	0.150
136.00	-44.98	-10.03	0.00	-285.11	0.00	285.11	3068.04	1534.02	4361.23	2183.86	19.51	-1.504	0.000	0.145
138.00	-44.32	-9.97	0.00	-265.06	0.00	265.06	3017.25	1508.63	4217.28	2111.78	20.14	-1.529	0.000	0.140
140.00	-43.67	-9.91	0.00	-245.12	0.00	245.12	2966.47	1483.23	4075.75	2040.91	20.79	-1.553	0.000	0.135
142.00	-43.02	-9.85	0.00	-225.30	0.00	225.30	2915.68	1457.84	3936.64	1971.24	21.44	-1.577	0.000	0.129
143.75	-42.47	-9.80	0.00	-208.06	0.00	208.06	2871.25	1435.62	3816.89	1911.28	22.02	-1.597	0.000	0.124
144.00	-42.37	-9.79	0.00	-205.61	0.00	205.61	2864.90	1432.45	3799.94	1902.79	22.11	-1.600	0.000	0.123
144.50	-39.77	-9.12	0.00	-200.71	0.00	200.71	2852.20	1426.10	3766.14	1885.87	22.28	-1.605	0.000	0.120
145.75	-39.26	-9.07	0.00	-189.31	0.00	189.31	2820.46	1410.23	3682.30	1843.89	22.70	-1.619	0.000	0.077
146.00	-39.16	-9.07	0.00	-187.04	0.00	187.04	2814.11	1407.06	3665.65	1835.55	22.78	-1.621	0.000	0.076
148.00	-38.37	-8.99	0.00	-168.91	0.00	168.91	2763.33	1381.66	3533.78	1769.52	23.47	-1.634	0.000	0.071
148.08	-38.34	-8.99	0.00	-168.16	0.00	168.16	1152.50	576.25	1508.33	755.29	23.49	-1.635	0.000	0.088
149.50	-35.67	-8.18	0.00	-155.43	0.00	155.43	1145.31	572.66	1479.63	740.91	23.98	-1.644	0.000	0.119
150.00	-35.55	-8.16	0.00	-151.34	0.00	151.34	1142.73	571.37	1469.50	735.84	24.15	-1.649	0.000	0.117
151.75	-35.13	-8.10	0.00	-137.05	0.00	137.05	1133.50	566.75	1434.03	718.08	24.76	-1.664	0.000	0.108
151.75	-35.13	-8.10	0.00	-137.05	0.00	137.05	1133.50	566.75	1434.03	718.08	24.76	-1.664	0.000	0.108
152.00	-35.07	-8.11	0.00	-135.03	0.00	135.03	1132.15	566.08	1428.97	715.55	24.85	-1.666	0.000	0.220
154.00	-34.60	-8.04	0.00	-118.82	0.00	118.82	1121.19	560.59	1388.46	695.26	25.55	-1.700	0.000	0.202
154.50	-32.28	-7.50	0.00	-114.79	0.00	114.79	1118.38	559.19	1378.34	690.19	25.73	-1.708	0.000	0.195
155.00	-27.41	-6.54	0.00	-111.05	0.00	111.05	1115.56	557.78	1368.22	685.13	25.91	-1.716	0.000	0.187
156.00	-27.20	-6.52	0.00	-104.51	0.00	104.51	1109.83	554.91	1348.00	675.00	26.27	-1.731	0.000	0.179
158.00	-26.79	-6.46	0.00	-91.47	0.00	91.47	1098.08	549.04	1307.61	654.78	27.00	-1.760	0.000	0.164
159.50	-24.28	-5.71	0.00	-81.78	0.00	81.78	1089.01	544.51	1277.39	639.64	27.56	-1.780	0.000	0.150
160.00	-24.18	-5.70	0.00	-78.93	0.00	78.93	1085.94	542.97	1267.33	634.61	27.75	-1.787	0.000	0.147
162.00	-23.78	-5.64	0.00	-67.53	0.00	67.53	1073.41	536.70	1227.17	614.50	28.50	-1.811	0.000	0.132
164.00	-23.38	-5.58	0.00	-56.25	0.00	56.25	1060.49	530.24	1187.18	594.47	29.27	-1.833	0.000	0.117
164.50	-21.41	-5.16	0.00	-53.46	0.00	53.46	1057.19	528.60	1177.21	589.48	29.46	-1.838	0.000	0.111
165.00	-15.80	-4.00	0.00	-50.88	0.00	50.88	1053.88	526.94	1167.25	584.49	29.65	-1.843	0.000	0.102
166.00	-15.63	-3.97	0.00	-46.89	0.00	46.89	1047.17	523.59	1147.37	574.54	30.04	-1.852	0.000	0.097
168.00	-15.30	-3.92	0.00	-38.94	0.00	38.94	1033.47	516.74	1107.78	554.71	30.82	-1.870	0.000	0.085
169.50	-13.19	-3.31	0.00	-33.07	0.00	33.07	1022.94	511.47	1078.24	539.92	31.41	-1.881	0.000	0.074
170.00	-13.10	-3.30	0.00	-31.41	0.00	31.41	1019.38	509.69	1068.43	535.01	31.60	-1.885	0.000	0.072
172.00	-12.78	-3.24	0.00	-24.82	0.00	24.82	1004.89	502.45	1029.34	515.44	32.40	-1.898	0.000	0.061
174.00	-12.47	-3.19	0.00	-18.33	0.00	18.33	990.02	495.01	990.56	496.02	33.19	-1.908	0.000	0.050
174.50	-10.85	-2.91	0.00	-16.73	0.00	16.73	986.24	493.12	980.92	491.19	33.39	-1.910	0.000	0.045

Calculated Forces

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 55
	Struct Class: II	



175.00	-6.30	-1.94	0.00	-15.28	0.00	15.28	982.43	491.22	971.29	486.37	33.59	-1.913	0.000	0.038
176.00	-6.15	-1.92	0.00	-13.34	0.00	13.34	974.75	487.37	952.10	476.76	33.99	-1.916	0.000	0.034
178.00	-5.85	-1.86	0.00	-9.51	0.00	9.51	959.09	479.55	914.00	457.68	34.80	-1.923	0.000	0.027
179.50	-4.65	-1.11	0.00	-6.71	0.00	6.71	947.09	473.55	885.67	443.49	35.40	-1.927	0.000	0.020
180.00	-4.57	-1.10	0.00	-6.16	0.00	6.16	943.04	471.52	876.28	438.79	35.61	-1.928	0.000	0.019
182.00	-4.28	-1.05	0.00	-3.96	0.00	3.96	926.61	463.30	838.97	420.11	36.41	-1.931	0.000	0.014
184.00	-4.00	-1.00	0.00	-1.86	0.00	1.86	909.78	454.89	802.09	401.64	37.22	-1.933	0.000	0.009
185.00	0.00	-0.86	0.00	-0.86	0.00	0.86	901.22	450.61	783.83	392.50	37.63	-1.933	0.000	0.002

Seismic Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 56



Load Case: 1.2D + 1.0E

Gust Response Factor 1.10

Sds 0.23

Iterations 26

Dead Load Factor 1.20

Seismic Load Factor 1.00

Sd1 0.11

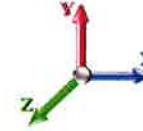
Ss 0.21

Wind Load Factor 0.00

Structure Frequency 0.34

SA 0.04

Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
2.00		678.28	0.00	0.01	0.01	7.07	
4.00		672.85	0.00	0.02	0.01	12.01	
6.00		667.42	0.00	0.03	0.02	15.60	
8.00		662.00	0.00	0.04	0.02	18.27	
10.00		656.57	0.01	0.05	0.03	20.27	
12.00		651.14	0.01	0.05	0.03	21.78	
14.00		645.71	0.01	0.06	0.03	22.91	
16.00		640.29	0.01	0.06	0.03	23.75	
18.00		634.86	0.02	0.06	0.04	24.36	
20.00		629.43	0.02	0.07	0.04	24.80	
22.00		624.00	0.03	0.07	0.04	25.10	
24.00		618.58	0.03	0.07	0.04	25.30	
26.00		613.15	0.04	0.07	0.04	25.42	
28.00		607.72	0.04	0.07	0.04	25.48	
30.00		602.30	0.05	0.07	0.04	25.51	
32.00		596.87	0.06	0.07	0.04	25.50	
34.00		591.44	0.06	0.07	0.04	25.48	
36.00		586.01	0.07	0.07	0.04	25.45	
38.00		580.59	0.08	0.07	0.04	25.41	
40.00		575.16	0.09	0.07	0.04	25.37	
42.00		569.73	0.10	0.07	0.04	25.33	
44.00		564.30	0.11	0.07	0.04	25.28	
46.00		558.88	0.12	0.07	0.03	25.24	
46.17	Bot - Section 2	46.33	0.12	0.07	0.03	2.09	
48.00		1021.8	0.13	0.07	0.03	46.49	
50.00		1104.3	0.14	0.07	0.03	50.61	
52.00		1093.4	0.15	0.07	0.03	50.43	
54.00	Top - Section 1	1082.6	0.16	0.07	0.03	50.21	
56.00		540.01	0.17	0.07	0.03	25.15	
58.00		534.58	0.19	0.06	0.03	24.95	
60.00		529.15	0.20	0.06	0.02	24.70	
62.00		523.73	0.21	0.06	0.02	24.38	
64.00		518.30	0.23	0.06	0.02	23.98	
66.00		512.87	0.24	0.06	0.02	23.47	
68.00		507.44	0.26	0.05	0.02	22.86	
70.00		502.02	0.27	0.05	0.01	22.11	
72.00		496.59	0.29	0.05	0.01	21.23	
74.00		491.16	0.30	0.04	0.01	20.18	
76.00		485.73	0.32	0.04	0.01	18.96	
78.00		480.31	0.34	0.04	0.01	17.56	
80.00		474.88	0.35	0.03	0.01	15.97	
82.00		469.45	0.37	0.03	0.01	14.19	
84.00		464.02	0.39	0.02	0.01	12.22	
86.00		458.60	0.41	0.02	0.01	10.06	
88.00		453.17	0.43	0.01	0.01	7.75	

Seismic Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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90.00		447.74	0.45	0.00	0.01	5.31
92.00		442.32	0.47	0.00	0.01	2.78
94.00		436.89	0.49	-0.01	0.01	0.20
94.08	Bot - Section 3	18.09	0.49	-0.01	0.01	0.00
96.00		774.00	0.51	-0.02	0.01	-4.24
98.00		797.79	0.53	-0.03	0.01	-9.12
100.00		787.71	0.55	-0.04	0.01	-13.60
100.17	Top - Section 2	65.19	0.55	-0.04	0.01	-1.16
102.00		332.07	0.57	-0.04	0.01	-7.59
104.00		357.80	0.60	-0.05	0.01	-10.06
106.00		353.14	0.62	-0.06	0.02	-11.62
108.00		348.49	0.64	-0.07	0.02	-12.95
110.00		343.84	0.67	-0.08	0.02	-14.04
112.00		339.19	0.69	-0.08	0.03	-14.88
114.00		334.54	0.72	-0.09	0.03	-15.48
116.00		329.88	0.74	-0.10	0.04	-15.83
118.00		325.23	0.77	-0.11	0.05	-15.95
120.00		320.58	0.80	-0.11	0.05	-15.84
122.00		315.93	0.82	-0.12	0.06	-15.51
124.00		311.28	0.85	-0.12	0.07	-14.99
126.00		306.62	0.88	-0.12	0.08	-14.27
128.00		301.97	0.90	-0.12	0.09	-13.37
130.00		297.32	0.93	-0.12	0.10	-12.30
132.00		292.67	0.96	-0.12	0.11	-11.08
134.00		288.02	0.99	-0.11	0.13	-9.70
136.00		283.36	1.02	-0.10	0.14	-8.20
138.00		278.71	1.05	-0.09	0.16	-6.56
140.00		274.06	1.08	-0.08	0.18	-4.81
142.00		269.41	1.11	-0.06	0.20	-2.94
143.75	Bot - Section 4	231.92	1.14	-0.04	0.21	-1.08
144.00		49.54	1.15	-0.04	0.22	-0.18
144.50	Appurtenance(s)	818.76	1.15	-0.04	0.22	-1.48
145.75	RB1	245.00	1.17	-0.02	0.24	0.76
146.00		48.67	1.18	-0.02	0.24	0.20
148.00		385.46	1.21	0.01	0.26	4.85
148.08	Top - Section 3	15.91	1.21	0.02	0.26	0.21
149.50	Appurtenance(s)	790.61	1.23	0.04	0.28	15.27
150.00		31.70	1.24	0.05	0.29	0.69
151.75	RT1	109.81	1.27	0.08	0.31	3.30
152.00		15.54	1.28	0.09	0.32	0.49
154.00		123.03	1.31	0.13	0.34	5.12
154.50	Appurtenance(s)	690.39	1.32	0.15	0.35	30.59
155.00	Appurtenance(s)	2099.0	1.33	0.16	0.36	98.71
156.00		60.06	1.34	0.19	0.38	3.16
158.00		118.37	1.38	0.24	0.41	7.59
159.50	Appurtenance(s)	747.25	1.40	0.29	0.44	54.72
160.00		28.79	1.41	0.31	0.45	2.20
162.00		113.72	1.45	0.38	0.48	10.14
164.00		111.40	1.49	0.47	0.53	11.44
164.50	Appurtenance(s)	587.49	1.49	0.49	0.54	62.35
165.00	Appurtenance(s)	1981.1	1.50	0.51	0.55	217.23
166.00		54.24	1.52	0.56	0.57	6.34
168.00		106.74	1.56	0.66	0.62	14.05
169.50	Appurtenance(s)	638.53	1.59	0.74	0.65	91.38
170.00		25.89	1.60	0.77	0.66	3.81
172.00		102.09	1.63	0.89	0.72	16.66
174.00		99.77	1.67	1.02	0.77	17.95

Seismic Segment Forces (Factored)

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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174.50	Appurtenance(s)	484.58	1.68	1.05	0.79	89.28
175.00	Appurtenance(s)	2120.9	1.69	1.09	0.80	400.00
176.00		48.43	1.71	1.16	0.83	9.56
178.00		95.11	1.75	1.32	0.89	20.50
179.50	Appurtenance(s)	369.81	1.78	1.45	0.94	84.92
180.00		22.98	1.79	1.49	0.96	5.39
182.00		90.46	1.83	1.67	1.03	22.97
184.00		88.14	1.87	1.87	1.10	24.16
185.00	Appurtenance(s)	1711.8	1.89	1.98	1.14	487.05
Totals:		52,854.8				2,602.7

Total Wind: 49,532.5

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 59



Load Case: 1.2D + 1.0E

Iterations 26

Gust Response Factor 1.10

Sds 0.23

Ss 0.21

Dead Load Factor 1.20

Seismic Load Factor 1.00

Sd1 0.11

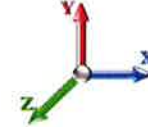
S1 0.07

Wind Load Factor 0.00

Structure Frequency 0.34

SA 0.04

Seismic Importance 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	-71.99	-2.88	0.00	-378.50	0.00	378.50	6186.26	3093.13	18350.4	9188.88	0.00	0.00	0.00	0.053
2.00	-71.17	-2.88	0.00	-372.74	0.00	372.74	6161.28	3080.64	18129.8	9078.39	0.00	0.00	0.00	0.053
4.00	-70.31	-2.87	0.00	-366.98	0.00	366.98	6135.91	3067.96	17909.2	8967.93	0.00	-0.01	-0.01	0.052
6.00	-69.41	-2.86	0.00	-361.24	0.00	361.24	6110.15	3055.07	17688.7	8857.51	0.01	-0.01	-0.01	0.052
8.00	-68.51	-2.84	0.00	-355.52	0.00	355.52	6084.00	3042.00	17468.3	8747.14	0.01	-0.01	-0.01	0.052
10.00	-67.62	-2.83	0.00	-349.83	0.00	349.83	6057.45	3028.73	17248.0	8636.84	0.02	-0.02	-0.02	0.052
12.00	-66.73	-2.81	0.00	-344.17	0.00	344.17	6030.52	3015.26	17027.9	8526.61	0.03	-0.02	-0.02	0.051
14.00	-65.85	-2.79	0.00	-338.55	0.00	338.55	6003.19	3001.60	16807.9	8416.48	0.03	-0.02	-0.02	0.051
16.00	-64.98	-2.77	0.00	-332.97	0.00	332.97	5975.47	2987.74	16588.2	8306.46	0.04	-0.03	-0.03	0.051
18.00	-64.11	-2.75	0.00	-327.43	0.00	327.43	5947.37	2973.68	16368.7	8196.55	0.06	-0.03	-0.03	0.051
20.00	-63.26	-2.73	0.00	-321.93	0.00	321.93	5918.87	2959.43	16149.5	8086.79	0.07	-0.03	-0.03	0.050
22.00	-62.40	-2.71	0.00	-316.47	0.00	316.47	5889.98	2944.99	15930.6	7977.17	0.09	-0.04	-0.04	0.050
24.00	-61.56	-2.68	0.00	-311.06	0.00	311.06	5860.70	2930.35	15712.0	7867.72	0.10	-0.04	-0.04	0.050
26.00	-60.72	-2.66	0.00	-305.69	0.00	305.69	5831.03	2915.51	15493.8	7758.44	0.12	-0.04	-0.04	0.050
28.00	-59.88	-2.64	0.00	-300.37	0.00	300.37	5800.97	2900.48	15276.0	7649.36	0.14	-0.05	-0.05	0.050
30.00	-59.06	-2.62	0.00	-295.09	0.00	295.09	5770.52	2885.26	15058.5	7540.48	0.16	-0.05	-0.05	0.049
32.00	-58.24	-2.60	0.00	-289.85	0.00	289.85	5739.67	2869.84	14841.5	7431.82	0.18	-0.06	-0.06	0.049
34.00	-57.42	-2.57	0.00	-284.66	0.00	284.66	5708.44	2854.22	14625.0	7323.39	0.21	-0.06	-0.06	0.049
36.00	-56.62	-2.55	0.00	-279.52	0.00	279.52	5676.81	2838.41	14409.0	7215.22	0.23	-0.06	-0.06	0.049
38.00	-55.82	-2.53	0.00	-274.42	0.00	274.42	5644.80	2822.40	14193.5	7107.30	0.26	-0.07	-0.07	0.048
40.00	-55.02	-2.51	0.00	-269.36	0.00	269.36	5612.39	2806.20	13978.5	6999.66	0.29	-0.07	-0.07	0.048
42.00	-54.24	-2.48	0.00	-264.35	0.00	264.35	5579.60	2789.80	13764.1	6892.30	0.32	-0.07	-0.07	0.048
44.00	-53.46	-2.46	0.00	-259.39	0.00	259.39	5546.41	2773.20	13550.3	6785.25	0.35	-0.08	-0.08	0.048
46.00	-52.68	-2.44	0.00	-254.47	0.00	254.47	5512.83	2756.41	13337.2	6678.52	0.39	-0.08	-0.08	0.048
46.17	-52.62	-2.44	0.00	-254.06	0.00	254.06	5510.01	2755.01	13319.4	6669.64	0.39	-0.08	-0.08	0.048
48.00	-51.30	-2.39	0.00	-249.60	0.00	249.60	5478.86	2739.43	13124.7	6572.12	0.42	-0.09	-0.09	0.047
50.00	-49.87	-2.34	0.00	-244.82	0.00	244.82	5444.50	2722.25	12912.9	6466.06	0.46	-0.09	-0.09	0.047
52.00	-48.45	-2.29	0.00	-240.13	0.00	240.13	5409.75	2704.87	12701.8	6360.36	0.50	-0.09	-0.09	0.047
54.00	-47.05	-2.24	0.00	-235.55	0.00	235.55	5427.99	2713.99	12812.2	6415.65	0.54	-0.10	-0.10	0.045
56.00	-46.30	-2.22	0.00	-231.07	0.00	231.07	5393.05	2696.53	12601.5	6310.13	0.58	-0.10	-0.10	0.045
58.00	-45.55	-2.20	0.00	-226.63	0.00	226.63	5357.72	2678.86	12391.5	6204.99	0.62	-0.11	-0.11	0.045
60.00	-44.81	-2.17	0.00	-222.24	0.00	222.24	5322.01	2661.00	12182.3	6100.24	0.67	-0.11	-0.11	0.045
62.00	-44.08	-2.15	0.00	-217.89	0.00	217.89	5285.90	2642.95	11974.0	5995.90	0.72	-0.12	-0.12	0.045
64.00	-43.36	-2.13	0.00	-213.59	0.00	213.59	5249.40	2624.70	11766.4	5891.98	0.77	-0.12	-0.12	0.045
66.00	-42.64	-2.11	0.00	-209.33	0.00	209.33	5212.50	2606.25	11559.8	5788.50	0.82	-0.12	-0.12	0.044
68.00	-41.92	-2.09	0.00	-205.12	0.00	205.12	5175.22	2587.61	11354.0	5685.46	0.87	-0.13	-0.13	0.044
70.00	-41.22	-2.06	0.00	-200.95	0.00	200.95	5137.55	2568.77	11149.2	5582.89	0.93	-0.13	-0.13	0.044
72.00	-40.52	-2.04	0.00	-196.82	0.00	196.82	5099.49	2549.74	10945.3	5480.80	0.98	-0.14	-0.14	0.044
74.00	-39.82	-2.03	0.00	-192.73	0.00	192.73	5061.03	2530.52	10742.4	5379.19	1.04	-0.14	-0.14	0.044
76.00	-39.14	-2.01	0.00	-188.68	0.00	188.68	5022.19	2511.09	10540.5	5278.10	1.10	-0.15	-0.15	0.044
78.00	-38.46	-1.99	0.00	-184.66	0.00	184.66	4982.95	2491.47	10339.6	5177.52	1.16	-0.15	-0.15	0.043
80.00	-37.78	-1.98	0.00	-180.68	0.00	180.68	4943.32	2471.66	10139.8	5077.48	1.23	-0.15	-0.15	0.043
82.00	-37.12	-1.96	0.00	-176.72	0.00	176.72	4903.30	2451.65	9941.18	4977.98	1.29	-0.16	-0.16	0.043
84.00	-36.46	-1.95	0.00	-172.79	0.00	172.79	4862.90	2431.45	9743.60	4879.04	1.36	-0.16	-0.16	0.043
86.00	-35.80	-1.94	0.00	-168.89	0.00	168.89	4822.10	2411.05	9547.17	4780.68	1.43	-0.17	-0.17	0.043
88.00	-35.16	-1.94	0.00	-165.00	0.00	165.00	4780.91	2390.45	9351.91	4682.91	1.50	-0.17	-0.17	0.043
90.00	-34.51	-1.93	0.00	-161.12	0.00	161.12	4739.33	2369.66	9157.86	4585.74	1.57	-0.18	-0.18	0.042

Calculated Forces

Structure: CT00707-S-SBA

Site Name: North Easton

Height: 185.00 (ft)

Base Elev: 0.000 (ft)

Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G

Exposure: B

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: II

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92.00	-33.88	-1.93	0.00	-157.25	0.00	157.25	4697.35	2348.68	8965.05	4489.19	1.65	-0.18	0.042
94.00	-33.25	-1.93	0.00	-153.39	0.00	153.39	4654.99	2327.50	8773.49	4393.27	1.73	-0.19	0.042
94.08	-33.23	-1.93	0.00	-153.23	0.00	153.23	4653.22	2326.61	8765.54	4389.28	1.73	-0.19	0.042
96.00	-32.20	-1.93	0.00	-149.53	0.00	149.53	4612.24	2306.12	8583.22	4297.99	1.81	-0.19	0.042
98.00	-31.14	-1.93	0.00	-145.66	0.00	145.66	4569.09	2284.55	8394.27	4203.37	1.89	-0.20	0.041
100.00	-30.09	-1.93	0.00	-141.80	0.00	141.80	4525.56	2262.78	8206.66	4109.43	1.98	-0.20	0.041
100.17	-30.00	-1.93	0.00	-141.48	0.00	141.48	3757.39	1878.70	6942.18	3476.25	1.98	-0.20	0.049
102.00	-29.51	-1.93	0.00	-137.94	0.00	137.94	3727.29	1863.64	6805.30	3407.71	2.06	-0.21	0.048
104.00	-28.97	-1.93	0.00	-134.08	0.00	134.08	3694.07	1847.03	6656.80	3333.35	2.15	-0.22	0.048
106.00	-28.45	-1.93	0.00	-130.22	0.00	130.22	3660.46	1830.23	6509.18	3259.43	2.24	-0.22	0.048
108.00	-27.93	-1.93	0.00	-126.35	0.00	126.35	3626.46	1813.23	6362.47	3185.96	2.34	-0.23	0.047
110.00	-27.41	-1.93	0.00	-122.48	0.00	122.48	3592.07	1796.03	6216.70	3112.97	2.43	-0.23	0.047
112.00	-26.90	-1.94	0.00	-118.61	0.00	118.61	3557.29	1778.64	6071.91	3040.47	2.53	-0.24	0.047
114.00	-26.39	-1.94	0.00	-114.74	0.00	114.74	3522.12	1761.06	5928.11	2968.46	2.63	-0.25	0.046
116.00	-25.89	-1.94	0.00	-110.87	0.00	110.87	3486.55	1743.28	5785.33	2896.97	2.74	-0.25	0.046
118.00	-25.40	-1.94	0.00	-107.00	0.00	107.00	3450.60	1725.30	5643.61	2826.00	2.84	-0.26	0.045
120.00	-24.91	-1.94	0.00	-103.12	0.00	103.12	3414.26	1707.13	5502.97	2755.57	2.95	-0.26	0.045
122.00	-24.43	-1.94	0.00	-99.25	0.00	99.25	3377.52	1688.76	5363.43	2685.70	3.06	-0.27	0.044
124.00	-23.95	-1.94	0.00	-95.37	0.00	95.37	3340.40	1670.20	5225.04	2616.40	3.18	-0.28	0.044
126.00	-23.48	-1.94	0.00	-91.49	0.00	91.49	3302.88	1651.44	5087.80	2547.68	3.30	-0.28	0.043
128.00	-23.01	-1.94	0.00	-87.62	0.00	87.62	3264.97	1632.49	4951.76	2479.56	3.42	-0.29	0.042
130.00	-22.55	-1.94	0.00	-83.74	0.00	83.74	3220.40	1610.20	4807.57	2407.36	3.54	-0.30	0.042
132.00	-22.10	-1.94	0.00	-79.86	0.00	79.86	3169.61	1584.80	4656.37	2331.65	3.66	-0.30	0.041
134.00	-21.65	-1.94	0.00	-75.98	0.00	75.98	3118.82	1559.41	4507.59	2257.15	3.79	-0.31	0.041
136.00	-21.20	-1.94	0.00	-72.10	0.00	72.10	3068.04	1534.02	4361.23	2183.86	3.92	-0.31	0.040
138.00	-20.77	-1.94	0.00	-68.22	0.00	68.22	3017.25	1508.63	4217.28	2111.78	4.06	-0.32	0.039
140.00	-20.33	-1.94	0.00	-64.34	0.00	64.34	2966.47	1483.23	4075.75	2040.91	4.19	-0.33	0.038
142.00	-19.91	-1.94	0.00	-60.46	0.00	60.46	2915.68	1457.84	3936.64	1971.24	4.33	-0.33	0.038
143.75	-19.54	-1.94	0.00	-57.07	0.00	57.07	2871.25	1435.62	3816.89	1911.28	4.45	-0.34	0.037
144.00	-19.47	-1.94	0.00	-56.59	0.00	56.59	2864.90	1432.45	3799.94	1902.79	4.47	-0.34	0.037
144.50	-18.46	-1.93	0.00	-55.62	0.00	55.62	2852.20	1426.10	3766.14	1885.87	4.51	-0.34	0.036
145.75	-18.10	-1.93	0.00	-53.20	0.00	53.20	2820.46	1410.23	3682.30	1843.89	4.60	-0.35	0.023
146.00	-18.03	-1.93	0.00	-52.72	0.00	52.72	2814.11	1407.06	3665.65	1835.55	4.62	-0.35	0.023
148.00	-17.46	-1.92	0.00	-48.86	0.00	48.86	2763.33	1381.66	3533.78	1769.52	4.76	-0.35	0.022
148.08	-17.44	-1.92	0.00	-48.70	0.00	48.70	1152.50	576.25	1508.33	755.29	4.77	-0.35	0.027
149.50	-16.41	-1.90	0.00	-45.97	0.00	45.97	1145.31	572.66	1479.63	740.91	4.87	-0.35	0.038
150.00	-16.35	-1.90	0.00	-45.02	0.00	45.02	1142.73	571.37	1469.50	735.84	4.91	-0.35	0.037
151.75	-16.13	-1.90	0.00	-41.69	0.00	41.69	1133.50	566.75	1434.03	718.08	5.04	-0.36	0.035
151.75	-16.13	-1.90	0.00	-41.69	0.00	41.69	1133.50	566.75	1434.03	718.08	5.04	-0.36	0.035
152.00	-16.10	-1.90	0.00	-41.22	0.00	41.22	1132.15	566.08	1428.97	715.55	5.06	-0.36	0.072
154.00	-15.85	-1.89	0.00	-37.42	0.00	37.42	1121.19	560.59	1388.46	695.26	5.21	-0.37	0.068
154.50	-14.99	-1.86	0.00	-36.48	0.00	36.48	1118.38	559.19	1378.34	690.19	5.25	-0.37	0.066
155.00	-12.45	-1.74	0.00	-35.55	0.00	35.55	1115.56	557.78	1368.22	685.13	5.29	-0.37	0.063
156.00	-12.34	-1.74	0.00	-33.80	0.00	33.80	1109.83	554.91	1348.00	675.00	5.37	-0.38	0.061
158.00	-12.13	-1.73	0.00	-30.32	0.00	30.32	1098.08	549.04	1307.61	654.78	5.53	-0.39	0.057
159.50	-11.17	-1.67	0.00	-27.72	0.00	27.72	1089.01	544.51	1277.39	639.64	5.65	-0.40	0.054
160.00	-11.12	-1.67	0.00	-26.88	0.00	26.88	1085.94	542.97	1267.33	634.61	5.70	-0.40	0.053
162.00	-10.91	-1.66	0.00	-23.53	0.00	23.53	1073.41	536.70	1227.17	614.50	5.86	-0.41	0.048
164.00	-10.71	-1.65	0.00	-20.21	0.00	20.21	1060.49	530.24	1187.18	594.47	6.04	-0.41	0.044
164.50	-9.99	-1.58	0.00	-19.38	0.00	19.38	1057.19	528.60	1177.21	589.48	6.08	-0.42	0.042
165.00	-7.59	-1.35	0.00	-18.59	0.00	18.59	1053.88	526.94	1167.25	584.49	6.12	-0.42	0.039
166.00	-7.51	-1.34	0.00	-17.24	0.00	17.24	1047.17	523.59	1147.37	574.54	6.21	-0.42	0.037
168.00	-7.35	-1.33	0.00	-14.56	0.00	14.56	1033.47	516.74	1107.78	554.71	6.39	-0.43	0.033
169.50	-6.55	-1.23	0.00	-12.56	0.00	12.56	1022.94	511.47	1078.24	539.92	6.52	-0.43	0.030
170.00	-6.51	-1.23	0.00	-11.95	0.00	11.95	1019.38	509.69	1068.43	535.01	6.57	-0.43	0.029
172.00	-6.35	-1.21	0.00	-9.49	0.00	9.49	1004.89	502.45	1029.34	515.44	6.75	-0.44	0.025
174.00	-6.20	-1.19	0.00	-7.07	0.00	7.07	990.02	495.01	990.56	496.02	6.94	-0.44	0.021

Calculated Forces

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 61
	Struct Class: II	



174.50	-5.61	-1.10	0.00	-6.48	0.00	6.48	986.24	493.12	980.92	491.19	6.98	-0.44	0.019
175.00	-3.06	-0.68	0.00	-5.93	0.00	5.93	982.43	491.22	971.29	486.37	7.03	-0.44	0.015
176.00	-2.98	-0.67	0.00	-5.25	0.00	5.25	974.75	487.37	952.10	476.76	7.12	-0.45	0.014
178.00	-2.84	-0.65	0.00	-3.91	0.00	3.91	959.09	479.55	914.00	457.68	7.31	-0.45	0.012
179.50	-2.37	-0.56	0.00	-2.94	0.00	2.94	947.09	473.55	885.67	443.49	7.45	-0.45	0.009
180.00	-2.34	-0.55	0.00	-2.67	0.00	2.67	943.04	471.52	876.28	438.79	7.50	-0.45	0.009
182.00	-2.20	-0.53	0.00	-1.56	0.00	1.56	926.61	463.30	838.97	420.11	7.69	-0.45	0.006
184.00	-2.07	-0.50	0.00	-0.50	0.00	0.50	909.78	454.89	802.09	401.64	7.88	-0.45	0.004
185.00	0.00	-0.49	0.00	0.00	0.00	0.00	901.22	450.61	783.83	392.50	7.97	-0.45	0.000

Seismic Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

Page: 62



Load Case: 0.9D + 1.0E

Gust Response Factor 1.10

Sds 0.23

Iterations 25

Dead Load Factor 0.90

Seismic Load Factor 1.00

Sd1 0.11

Ss 0.21

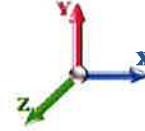
S1 0.07

Wind Load Factor 0.00

Structure Frequency 0.34

SA 0.04

Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
2.00		678.28	0.00	0.01	0.01	7.07	
4.00		672.85	0.00	0.02	0.01	12.01	
6.00		667.42	0.00	0.03	0.02	15.60	
8.00		662.00	0.00	0.04	0.02	18.27	
10.00		656.57	0.01	0.05	0.03	20.27	
12.00		651.14	0.01	0.05	0.03	21.78	
14.00		645.71	0.01	0.06	0.03	22.91	
16.00		640.29	0.01	0.06	0.03	23.75	
18.00		634.86	0.02	0.06	0.04	24.36	
20.00		629.43	0.02	0.07	0.04	24.80	
22.00		624.00	0.03	0.07	0.04	25.10	
24.00		618.58	0.03	0.07	0.04	25.30	
26.00		613.15	0.04	0.07	0.04	25.42	
28.00		607.72	0.04	0.07	0.04	25.48	
30.00		602.30	0.05	0.07	0.04	25.51	
32.00		596.87	0.06	0.07	0.04	25.50	
34.00		591.44	0.06	0.07	0.04	25.48	
36.00		586.01	0.07	0.07	0.04	25.45	
38.00		580.59	0.08	0.07	0.04	25.41	
40.00		575.16	0.09	0.07	0.04	25.37	
42.00		569.73	0.10	0.07	0.04	25.33	
44.00		564.30	0.11	0.07	0.04	25.28	
46.00		558.88	0.12	0.07	0.03	25.24	
46.17	Bot - Section 2	46.33	0.12	0.07	0.03	2.09	
48.00		1021.8	0.13	0.07	0.03	46.49	
50.00		1104.3	0.14	0.07	0.03	50.61	
52.00		1093.4	0.15	0.07	0.03	50.43	
54.00	Top - Section 1	1082.6	0.16	0.07	0.03	50.21	
56.00		540.01	0.17	0.07	0.03	25.15	
58.00		534.58	0.19	0.06	0.03	24.95	
60.00		529.15	0.20	0.06	0.02	24.70	
62.00		523.73	0.21	0.06	0.02	24.38	
64.00		518.30	0.23	0.06	0.02	23.98	
66.00		512.87	0.24	0.06	0.02	23.47	
68.00		507.44	0.26	0.05	0.02	22.86	
70.00		502.02	0.27	0.05	0.01	22.11	
72.00		496.59	0.29	0.05	0.01	21.23	
74.00		491.16	0.30	0.04	0.01	20.18	
76.00		485.73	0.32	0.04	0.01	18.96	
78.00		480.31	0.34	0.04	0.01	17.56	
80.00		474.88	0.35	0.03	0.01	15.97	
82.00		469.45	0.37	0.03	0.01	14.19	
84.00		464.02	0.39	0.02	0.01	12.22	
86.00		458.60	0.41	0.02	0.01	10.06	
88.00		453.17	0.43	0.01	0.01	7.75	

Seismic Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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90.00		447.74	0.45	0.00	0.01	5.31
92.00		442.32	0.47	0.00	0.01	2.78
94.00		436.89	0.49	-0.01	0.01	0.20
94.08	Bot - Section 3	18.09	0.49	-0.01	0.01	0.00
96.00		774.00	0.51	-0.02	0.01	-4.24
98.00		797.79	0.53	-0.03	0.01	-9.12
100.00		787.71	0.55	-0.04	0.01	-13.60
100.17	Top - Section 2	65.19	0.55	-0.04	0.01	-1.16
102.00		332.07	0.57	-0.04	0.01	-7.59
104.00		357.80	0.60	-0.05	0.01	-10.06
106.00		353.14	0.62	-0.06	0.02	-11.62
108.00		348.49	0.64	-0.07	0.02	-12.95
110.00		343.84	0.67	-0.08	0.02	-14.04
112.00		339.19	0.69	-0.08	0.03	-14.88
114.00		334.54	0.72	-0.09	0.03	-15.48
116.00		329.88	0.74	-0.10	0.04	-15.83
118.00		325.23	0.77	-0.11	0.05	-15.95
120.00		320.58	0.80	-0.11	0.05	-15.84
122.00		315.93	0.82	-0.12	0.06	-15.51
124.00		311.28	0.85	-0.12	0.07	-14.99
126.00		306.62	0.88	-0.12	0.08	-14.27
128.00		301.97	0.90	-0.12	0.09	-13.37
130.00		297.32	0.93	-0.12	0.10	-12.30
132.00		292.67	0.96	-0.12	0.11	-11.08
134.00		288.02	0.99	-0.11	0.13	-9.70
136.00		283.36	1.02	-0.10	0.14	-8.20
138.00		278.71	1.05	-0.09	0.16	-6.56
140.00		274.06	1.08	-0.08	0.18	-4.81
142.00		269.41	1.11	-0.06	0.20	-2.94
143.75	Bot - Section 4	231.92	1.14	-0.04	0.21	-1.08
144.00		49.54	1.15	-0.04	0.22	-0.18
144.50	Appurtenance(s)	818.76	1.15	-0.04	0.22	-1.48
145.75	RB1	245.00	1.17	-0.02	0.24	0.76
146.00		48.67	1.18	-0.02	0.24	0.20
148.00		385.46	1.21	0.01	0.26	4.85
148.08	Top - Section 3	15.91	1.21	0.02	0.26	0.21
149.50	Appurtenance(s)	790.61	1.23	0.04	0.28	15.27
150.00		31.70	1.24	0.05	0.29	0.69
151.75	RT1	109.81	1.27	0.08	0.31	3.30
152.00		15.54	1.28	0.09	0.32	0.49
154.00		123.03	1.31	0.13	0.34	5.12
154.50	Appurtenance(s)	690.39	1.32	0.15	0.35	30.59
155.00	Appurtenance(s)	2099.0	1.33	0.16	0.36	98.71
156.00		60.06	1.34	0.19	0.38	3.16
158.00		118.37	1.38	0.24	0.41	7.59
159.50	Appurtenance(s)	747.25	1.40	0.29	0.44	54.72
160.00		28.79	1.41	0.31	0.45	2.20
162.00		113.72	1.45	0.38	0.48	10.14
164.00		111.40	1.49	0.47	0.53	11.44
164.50	Appurtenance(s)	587.49	1.49	0.49	0.54	62.35
165.00	Appurtenance(s)	1981.1	1.50	0.51	0.55	217.23
166.00		54.24	1.52	0.56	0.57	6.34
168.00		106.74	1.56	0.66	0.62	14.05
169.50	Appurtenance(s)	638.53	1.59	0.74	0.65	91.38
170.00		25.89	1.60	0.77	0.66	3.81
172.00		102.09	1.63	0.89	0.72	16.66
174.00		99.77	1.67	1.02	0.77	17.95

Seismic Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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174.50	Appurtenance(s)	484.58	1.68	1.05	0.79	89.28
175.00	Appurtenance(s)	2120.9	1.69	1.09	0.80	400.00
176.00		48.43	1.71	1.16	0.83	9.56
178.00		95.11	1.75	1.32	0.89	20.50
179.50	Appurtenance(s)	369.81	1.78	1.45	0.94	84.92
180.00		22.98	1.79	1.49	0.96	5.39
182.00		90.46	1.83	1.67	1.03	22.97
184.00		88.14	1.87	1.87	1.10	24.16
185.00	Appurtenance(s)	1711.8	1.89	1.98	1.14	487.05
Totals:		52,854.8				2,602.7

Total Wind: 49,532.5

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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 + 1.0E

Iterations 25

Gust Response Factor 1.10

Sds 0.23

Ss 0.21

Dead Load Factor 0.90

Seismic Load Factor 1.00

Sd1 0.11

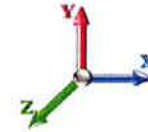
S1 0.07

Wind Load Factor 0.00

Structure Frequency 0.34

SA 0.04

Seismic Importance 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	-53.99	-2.88	0.00	-374.29	0.00	374.29	6186.26	3093.13	18350.4	9188.88	0.00	0.00	0.00	0.049
2.00	-53.38	-2.88	0.00	-368.54	0.00	368.54	6161.28	3080.64	18129.8	9078.39	0.00	0.00	0.00	0.049
4.00	-52.73	-2.87	0.00	-362.79	0.00	362.79	6135.91	3067.96	17909.2	8967.93	0.00	-0.01	0.00	0.049
6.00	-52.05	-2.85	0.00	-357.05	0.00	357.05	6110.15	3055.07	17688.7	8857.51	0.01	-0.01	0.00	0.049
8.00	-51.38	-2.84	0.00	-351.35	0.00	351.35	6084.00	3042.00	17468.3	8747.14	0.01	-0.01	0.00	0.049
10.00	-50.71	-2.82	0.00	-345.67	0.00	345.67	6057.45	3028.73	17248.0	8636.84	0.02	-0.02	0.00	0.048
12.00	-50.05	-2.80	0.00	-340.03	0.00	340.03	6030.52	3015.26	17027.9	8526.61	0.02	-0.02	0.00	0.048
14.00	-49.39	-2.78	0.00	-334.43	0.00	334.43	6003.19	3001.60	16807.9	8416.48	0.03	-0.02	0.00	0.048
16.00	-48.73	-2.76	0.00	-328.87	0.00	328.87	5975.47	2987.74	16588.2	8306.46	0.04	-0.03	0.00	0.048
18.00	-48.09	-2.74	0.00	-323.35	0.00	323.35	5947.37	2973.68	16368.7	8196.55	0.06	-0.03	0.00	0.048
20.00	-47.44	-2.72	0.00	-317.87	0.00	317.87	5918.87	2959.43	16149.5	8086.79	0.07	-0.03	0.00	0.047
22.00	-46.80	-2.69	0.00	-312.44	0.00	312.44	5889.98	2944.99	15930.6	7977.17	0.08	-0.04	0.00	0.047
24.00	-46.17	-2.67	0.00	-307.05	0.00	307.05	5860.70	2930.35	15712.0	7867.72	0.10	-0.04	0.00	0.047
26.00	-45.54	-2.65	0.00	-301.71	0.00	301.71	5831.03	2915.51	15493.8	7758.44	0.12	-0.04	0.00	0.047
28.00	-44.91	-2.62	0.00	-296.42	0.00	296.42	5800.97	2900.48	15276.0	7649.36	0.14	-0.05	0.00	0.046
30.00	-44.29	-2.60	0.00	-291.17	0.00	291.17	5770.52	2885.26	15058.5	7540.48	0.16	-0.05	0.00	0.046
32.00	-43.68	-2.58	0.00	-285.97	0.00	285.97	5739.67	2869.84	14841.5	7431.82	0.18	-0.05	0.00	0.046
34.00	-43.07	-2.55	0.00	-280.81	0.00	280.81	5708.44	2854.22	14625.0	7323.39	0.20	-0.06	0.00	0.046
36.00	-42.46	-2.53	0.00	-275.70	0.00	275.70	5676.81	2838.41	14409.0	7215.22	0.23	-0.06	0.00	0.046
38.00	-41.86	-2.51	0.00	-270.64	0.00	270.64	5644.80	2822.40	14193.5	7107.30	0.26	-0.07	0.00	0.045
40.00	-41.27	-2.48	0.00	-265.62	0.00	265.62	5612.39	2806.20	13978.5	6999.66	0.29	-0.07	0.00	0.045
42.00	-40.68	-2.46	0.00	-260.65	0.00	260.65	5579.60	2789.80	13764.1	6892.30	0.32	-0.07	0.00	0.045
44.00	-40.09	-2.44	0.00	-255.73	0.00	255.73	5546.41	2773.20	13550.3	6785.25	0.35	-0.08	0.00	0.045
46.00	-39.51	-2.41	0.00	-250.86	0.00	250.86	5512.83	2756.41	13337.2	6678.52	0.38	-0.08	0.00	0.045
46.17	-39.46	-2.41	0.00	-250.45	0.00	250.45	5510.01	2755.01	13319.4	6669.64	0.38	-0.08	0.00	0.045
48.00	-38.47	-2.37	0.00	-246.03	0.00	246.03	5478.86	2739.43	13124.7	6572.12	0.42	-0.09	0.00	0.044
50.00	-37.40	-2.32	0.00	-241.30	0.00	241.30	5444.50	2722.25	12912.9	6466.06	0.45	-0.09	0.00	0.044
52.00	-36.34	-2.27	0.00	-236.66	0.00	236.66	5409.75	2704.87	12701.8	6360.36	0.49	-0.09	0.00	0.044
54.00	-35.29	-2.22	0.00	-232.13	0.00	232.13	5427.99	2713.99	12812.2	6415.65	0.53	-0.10	0.00	0.043
56.00	-34.72	-2.19	0.00	-227.69	0.00	227.69	5393.05	2696.53	12601.5	6310.13	0.57	-0.10	0.00	0.043
58.00	-34.16	-2.17	0.00	-223.30	0.00	223.30	5357.72	2678.86	12391.5	6204.99	0.62	-0.11	0.00	0.042
60.00	-33.61	-2.15	0.00	-218.96	0.00	218.96	5322.01	2661.00	12182.3	6100.24	0.66	-0.11	0.00	0.042
62.00	-33.06	-2.12	0.00	-214.66	0.00	214.66	5285.90	2642.95	11974.0	5995.90	0.71	-0.11	0.00	0.042
64.00	-32.52	-2.10	0.00	-210.41	0.00	210.41	5249.40	2624.70	11766.4	5891.98	0.76	-0.12	0.00	0.042
66.00	-31.98	-2.08	0.00	-206.21	0.00	206.21	5212.50	2606.25	11559.8	5788.50	0.81	-0.12	0.00	0.042
68.00	-31.44	-2.06	0.00	-202.05	0.00	202.05	5175.22	2587.61	11354.0	5685.46	0.86	-0.13	0.00	0.042
70.00	-30.91	-2.04	0.00	-197.93	0.00	197.93	5137.55	2568.77	11149.2	5582.89	0.91	-0.13	0.00	0.041
72.00	-30.39	-2.02	0.00	-193.86	0.00	193.86	5099.49	2549.74	10945.3	5480.80	0.97	-0.13	0.00	0.041
74.00	-29.87	-2.00	0.00	-189.82	0.00	189.82	5061.03	2530.52	10742.4	5379.19	1.03	-0.14	0.00	0.041
76.00	-29.35	-1.98	0.00	-185.83	0.00	185.83	5022.19	2511.09	10540.5	5278.10	1.09	-0.14	0.00	0.041
78.00	-28.84	-1.96	0.00	-181.87	0.00	181.87	4982.95	2491.47	10339.6	5177.52	1.15	-0.15	0.00	0.041
80.00	-28.34	-1.95	0.00	-177.94	0.00	177.94	4943.32	2471.66	10139.8	5077.48	1.21	-0.15	0.00	0.041
82.00	-27.84	-1.94	0.00	-174.04	0.00	174.04	4903.30	2451.65	9941.18	4977.98	1.27	-0.16	0.00	0.041
84.00	-27.34	-1.92	0.00	-170.17	0.00	170.17	4862.90	2431.45	9743.60	4879.04	1.34	-0.16	0.00	0.041
86.00	-26.85	-1.91	0.00	-166.33	0.00	166.33	4822.10	2411.05	9547.17	4780.68	1.41	-0.17	0.00	0.040
88.00	-26.37	-1.91	0.00	-162.50	0.00	162.50	4780.91	2390.45	9351.91	4682.91	1.48	-0.17	0.00	0.040
90.00	-25.88	-1.90	0.00	-158.68	0.00	158.68	4739.33	2369.66	9157.86	4585.74	1.55	-0.18	0.00	0.040

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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92.00	-25.41	-1.90	0.00	-154.88	0.00	154.88	4697.35	2348.68	8965.05	4489.19	1.63	-0.18	0.040
94.00	-24.94	-1.90	0.00	-151.08	0.00	151.08	4654.99	2327.50	8773.49	4393.27	1.71	-0.19	0.040
94.08	-24.92	-1.90	0.00	-150.92	0.00	150.92	4653.22	2326.61	8765.54	4389.28	1.71	-0.19	0.040
96.00	-24.15	-1.90	0.00	-147.27	0.00	147.27	4612.24	2306.12	8583.22	4297.99	1.78	-0.19	0.040
98.00	-23.35	-1.90	0.00	-143.47	0.00	143.47	4569.09	2284.55	8394.27	4203.37	1.87	-0.20	0.039
100.00	-22.56	-1.90	0.00	-139.67	0.00	139.67	4525.56	2262.78	8206.66	4109.43	1.95	-0.20	0.039
100.17	-22.50	-1.90	0.00	-139.35	0.00	139.35	3757.39	1878.70	6942.18	3476.25	1.96	-0.20	0.046
102.00	-22.13	-1.90	0.00	-135.87	0.00	135.87	3727.29	1863.64	6805.30	3407.71	2.03	-0.21	0.046
104.00	-21.73	-1.90	0.00	-132.07	0.00	132.07	3694.07	1847.03	6656.80	3333.35	2.12	-0.21	0.046
106.00	-21.33	-1.90	0.00	-128.27	0.00	128.27	3660.46	1830.23	6509.18	3259.43	2.21	-0.22	0.045
108.00	-20.94	-1.90	0.00	-124.47	0.00	124.47	3626.46	1813.23	6362.47	3185.96	2.30	-0.22	0.045
110.00	-20.55	-1.90	0.00	-120.66	0.00	120.66	3592.07	1796.03	6216.70	3112.97	2.40	-0.23	0.044
112.00	-20.17	-1.90	0.00	-116.85	0.00	116.85	3557.29	1778.64	6071.91	3040.47	2.50	-0.24	0.044
114.00	-19.79	-1.90	0.00	-113.05	0.00	113.05	3522.12	1761.06	5928.11	2968.46	2.60	-0.24	0.044
116.00	-19.42	-1.90	0.00	-109.24	0.00	109.24	3486.55	1743.28	5785.33	2896.97	2.70	-0.25	0.043
118.00	-19.05	-1.91	0.00	-105.43	0.00	105.43	3450.60	1725.30	5643.61	2826.00	2.81	-0.25	0.043
120.00	-18.68	-1.91	0.00	-101.62	0.00	101.62	3414.26	1707.13	5502.97	2755.57	2.91	-0.26	0.042
122.00	-18.32	-1.91	0.00	-97.81	0.00	97.81	3377.52	1688.76	5363.43	2685.70	3.02	-0.27	0.042
124.00	-17.96	-1.91	0.00	-93.99	0.00	93.99	3340.40	1670.20	5225.04	2616.40	3.14	-0.27	0.041
126.00	-17.61	-1.91	0.00	-90.18	0.00	90.18	3302.88	1651.44	5087.80	2547.68	3.25	-0.28	0.041
128.00	-17.26	-1.91	0.00	-86.37	0.00	86.37	3264.97	1632.49	4951.76	2479.56	3.37	-0.29	0.040
130.00	-16.91	-1.91	0.00	-82.56	0.00	82.56	3220.40	1610.20	4807.57	2407.36	3.49	-0.29	0.040
132.00	-16.57	-1.91	0.00	-78.74	0.00	78.74	3169.61	1584.80	4656.37	2331.65	3.61	-0.30	0.039
134.00	-16.23	-1.91	0.00	-74.93	0.00	74.93	3118.82	1559.41	4507.59	2257.15	3.74	-0.30	0.038
136.00	-15.90	-1.91	0.00	-71.11	0.00	71.11	3068.04	1534.02	4361.23	2183.86	3.87	-0.31	0.038
138.00	-15.57	-1.91	0.00	-67.30	0.00	67.30	3017.25	1508.63	4217.28	2111.78	4.00	-0.32	0.037
140.00	-15.25	-1.91	0.00	-63.48	0.00	63.48	2966.47	1483.23	4075.75	2040.91	4.13	-0.32	0.036
142.00	-14.93	-1.91	0.00	-59.67	0.00	59.67	2915.68	1457.84	3936.64	1971.24	4.27	-0.33	0.035
143.75	-14.65	-1.91	0.00	-56.33	0.00	56.33	2871.25	1435.62	3816.89	1911.28	4.39	-0.33	0.035
144.00	-14.60	-1.91	0.00	-55.86	0.00	55.86	2864.90	1432.45	3799.94	1902.79	4.41	-0.34	0.034
144.50	-13.84	-1.90	0.00	-54.90	0.00	54.90	2852.20	1426.10	3766.14	1885.87	4.45	-0.34	0.034
145.75	-13.57	-1.90	0.00	-52.53	0.00	52.53	2820.46	1410.23	3682.30	1843.89	4.53	-0.34	0.022
146.00	-13.52	-1.90	0.00	-52.05	0.00	52.05	2814.11	1407.06	3665.65	1835.55	4.55	-0.34	0.022
148.00	-13.09	-1.89	0.00	-48.25	0.00	48.25	2763.33	1381.66	3533.78	1769.52	4.70	-0.34	0.021
148.08	-13.07	-1.89	0.00	-48.09	0.00	48.09	1152.50	576.25	1508.33	755.29	4.70	-0.35	0.026
149.50	-12.31	-1.87	0.00	-45.41	0.00	45.41	1145.31	572.66	1479.63	740.91	4.80	-0.35	0.036
150.00	-12.26	-1.87	0.00	-44.47	0.00	44.47	1142.73	571.37	1469.50	735.84	4.84	-0.35	0.035
151.75	-12.09	-1.87	0.00	-41.19	0.00	41.19	1133.50	566.75	1434.03	718.08	4.97	-0.35	0.033
151.75	-12.09	-1.87	0.00	-41.19	0.00	41.19	1133.50	566.75	1434.03	718.08	4.97	-0.35	0.033
152.00	-12.07	-1.87	0.00	-40.72	0.00	40.72	1132.15	566.08	1428.97	715.55	4.99	-0.35	0.068
154.00	-11.88	-1.87	0.00	-36.98	0.00	36.98	1121.19	560.59	1388.46	695.26	5.14	-0.36	0.064
154.50	-11.24	-1.83	0.00	-36.05	0.00	36.05	1118.38	559.19	1378.34	690.19	5.18	-0.37	0.062
155.00	-9.33	-1.72	0.00	-35.13	0.00	35.13	1115.56	557.78	1368.22	685.13	5.22	-0.37	0.060
156.00	-9.25	-1.72	0.00	-33.41	0.00	33.41	1109.83	554.91	1348.00	675.00	5.29	-0.37	0.058
158.00	-9.09	-1.71	0.00	-29.97	0.00	29.97	1098.08	549.04	1307.61	654.78	5.45	-0.38	0.054
159.50	-8.38	-1.65	0.00	-27.41	0.00	27.41	1089.01	544.51	1277.39	639.64	5.58	-0.39	0.051
160.00	-8.34	-1.65	0.00	-26.58	0.00	26.58	1085.94	542.97	1267.33	634.61	5.62	-0.39	0.050
162.00	-8.18	-1.64	0.00	-23.28	0.00	23.28	1073.41	536.70	1227.17	614.50	5.78	-0.40	0.046
164.00	-8.03	-1.63	0.00	-19.99	0.00	19.99	1060.49	530.24	1187.18	594.47	5.95	-0.41	0.041
164.50	-7.49	-1.56	0.00	-19.18	0.00	19.18	1057.19	528.60	1177.21	589.48	6.00	-0.41	0.040
165.00	-5.69	-1.33	0.00	-18.40	0.00	18.40	1053.88	526.94	1167.25	584.49	6.04	-0.41	0.037
166.00	-5.63	-1.33	0.00	-17.06	0.00	17.06	1047.17	523.59	1147.37	574.54	6.12	-0.42	0.035
168.00	-5.51	-1.31	0.00	-14.41	0.00	14.41	1033.47	516.74	1107.78	554.71	6.30	-0.42	0.031
169.50	-4.91	-1.22	0.00	-12.44	0.00	12.44	1022.94	511.47	1078.24	539.92	6.43	-0.43	0.028
170.00	-4.88	-1.21	0.00	-11.83	0.00	11.83	1019.38	509.69	1068.43	535.01	6.48	-0.43	0.027
172.00	-4.76	-1.20	0.00	-9.40	0.00	9.40	1004.89	502.45	1029.34	515.44	6.66	-0.43	0.023
174.00	-4.65	-1.18	0.00	-7.01	0.00	7.01	990.02	495.01	990.56	496.02	6.84	-0.44	0.019

Calculated Forces

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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174.50	-4.20	-1.09	0.00	-6.42	0.00	6.42	986.24	493.12	980.92	491.19	6.89	-0.44	0.017
175.00	-2.29	-0.67	0.00	-5.87	0.00	5.87	982.43	491.22	971.29	486.37	6.93	-0.44	0.014
176.00	-2.24	-0.66	0.00	-5.20	0.00	5.20	974.75	487.37	952.10	476.76	7.02	-0.44	0.013
178.00	-2.13	-0.64	0.00	-3.88	0.00	3.88	959.09	479.55	914.00	457.68	7.21	-0.44	0.011
179.50	-1.78	-0.55	0.00	-2.92	0.00	2.92	947.09	473.55	885.67	443.49	7.35	-0.44	0.008
180.00	-1.75	-0.55	0.00	-2.64	0.00	2.64	943.04	471.52	876.28	438.79	7.40	-0.44	0.008
182.00	-1.65	-0.52	0.00	-1.55	0.00	1.55	926.61	463.30	838.97	420.11	7.58	-0.45	0.005
184.00	-1.55	-0.50	0.00	-0.50	0.00	0.50	909.78	454.89	802.09	401.64	7.77	-0.45	0.003
185.00	0.00	-0.49	0.00	0.00	0.00	0.00	901.22	450.61	783.83	392.50	7.86	-0.45	0.000

Wind Loading - Shaft

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

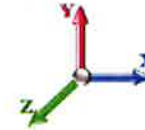
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.70	6.129	6.74	307.97	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.70	6.129	6.74	305.53	0.650	0.000	2.00	12.221	7.94	53.6	0.0	678.3
4.00		1.00	0.70	6.129	6.74	303.09	0.650	0.000	2.00	12.124	7.88	53.1	0.0	672.9
6.00		1.00	0.70	6.129	6.74	300.65	0.650	0.000	2.00	12.027	7.82	52.7	0.0	667.4
8.00		1.00	0.70	6.129	6.74	298.21	0.650	0.000	2.00	11.930	7.75	52.3	0.0	662.0
10.00		1.00	0.70	6.129	6.74	295.77	0.650	0.000	2.00	11.832	7.69	51.8	0.0	656.6
12.00		1.00	0.70	6.129	6.74	293.33	0.650	0.000	2.00	11.735	7.63	51.4	0.0	651.1
14.00		1.00	0.70	6.129	6.74	290.89	0.650	0.000	2.00	11.638	7.56	51.0	0.0	645.7
16.00		1.00	0.70	6.129	6.74	288.45	0.650	0.000	2.00	11.541	7.50	50.6	0.0	640.3
18.00		1.00	0.70	6.129	6.74	286.01	0.650	0.000	2.00	11.444	7.44	50.1	0.0	634.9
20.00		1.00	0.70	6.129	6.74	283.57	0.650	0.000	2.00	11.346	7.38	49.7	0.0	629.4
22.00		1.00	0.70	6.129	6.74	281.13	0.650	0.000	2.00	11.249	7.31	49.3	0.0	624.0
24.00		1.00	0.70	6.129	6.74	278.69	0.650	0.000	2.00	11.152	7.25	48.9	0.0	618.6
26.00		1.00	0.70	6.129	6.74	276.25	0.650	0.000	2.00	11.055	7.19	48.4	0.0	613.2
28.00		1.00	0.70	6.129	6.74	273.81	0.650	0.000	2.00	10.958	7.12	48.0	0.0	607.7
30.00		1.00	0.70	6.134	6.75	271.49	0.650	0.000	2.00	10.860	7.06	47.6	0.0	602.3
32.00		1.00	0.71	6.248	6.87	271.54	0.650	0.000	2.00	10.763	7.00	48.1	0.0	596.9
34.00		1.00	0.73	6.357	6.99	271.42	0.650	0.000	2.00	10.666	6.93	48.5	0.0	591.4
36.00		1.00	0.74	6.462	7.11	271.14	0.650	0.000	2.00	10.569	6.87	48.8	0.0	586.0
38.00		1.00	0.75	6.562	7.22	270.71	0.650	0.000	2.00	10.472	6.81	49.1	0.0	580.6
40.00		1.00	0.76	6.659	7.33	270.16	0.650	0.000	2.00	10.374	6.74	49.4	0.0	575.2
42.00		1.00	0.77	6.753	7.43	269.49	0.650	0.000	2.00	10.277	6.68	49.6	0.0	569.7
44.00		1.00	0.78	6.843	7.53	268.71	0.650	0.000	2.00	10.180	6.62	49.8	0.0	564.3
46.00		1.00	0.79	6.931	7.62	267.83	0.650	0.000	2.00	10.083	6.55	50.0	0.0	558.9
46.17 Bot - Section 2		1.00	0.79	6.938	7.63	267.75	0.650	0.000	0.17	0.836	0.54	4.1	0.0	46.3
48.00		1.00	0.80	7.015	7.72	266.85	0.650	0.000	1.83	9.285	6.04	46.6	0.0	1021.8
50.00		1.00	0.81	7.098	7.81	265.79	0.650	0.000	2.00	10.036	6.52	50.9	0.0	1104.3
52.00		1.00	0.82	7.178	7.90	264.64	0.650	0.000	2.00	9.939	6.46	51.0	0.0	1093.5
54.00 Top - Section 1		1.00	0.83	7.255	7.98	263.42	0.650	0.000	2.00	9.842	6.40	51.1	0.0	1082.6
56.00		1.00	0.84	7.331	8.06	266.18	0.650	0.000	2.00	9.745	6.33	51.1	0.0	540.0
58.00		1.00	0.85	7.405	8.15	264.84	0.650	0.000	2.00	9.648	6.27	51.1	0.0	534.6
60.00		1.00	0.85	7.477	8.22	263.43	0.650	0.000	2.00	9.550	6.21	51.1	0.0	529.2
62.00		1.00	0.86	7.548	8.30	261.96	0.650	0.000	2.00	9.453	6.14	51.0	0.0	523.7
64.00		1.00	0.87	7.616	8.38	260.43	0.650	0.000	2.00	9.356	6.08	51.0	0.0	518.3
66.00		1.00	0.88	7.684	8.45	258.85	0.650	0.000	2.00	9.259	6.02	50.9	0.0	512.9
68.00		1.00	0.89	7.749	8.52	257.21	0.650	0.000	2.00	9.162	5.96	50.8	0.0	507.4
70.00		1.00	0.89	7.814	8.60	255.52	0.650	0.000	2.00	9.065	5.89	50.6	0.0	502.0
72.00		1.00	0.90	7.877	8.66	253.79	0.650	0.000	2.00	8.967	5.83	50.5	0.0	496.6
74.00		1.00	0.91	7.939	8.73	252.01	0.650	0.000	2.00	8.870	5.77	50.3	0.0	491.2
76.00		1.00	0.91	8.000	8.80	250.18	0.650	0.000	2.00	8.773	5.70	50.2	0.0	485.7
78.00		1.00	0.92	8.059	8.87	248.31	0.650	0.000	2.00	8.676	5.64	50.0	0.0	480.3
80.00		1.00	0.93	8.118	8.93	246.41	0.650	0.000	2.00	8.579	5.58	49.8	0.0	474.9
82.00		1.00	0.93	8.175	8.99	244.46	0.650	0.000	2.00	8.481	5.51	49.6	0.0	469.5
84.00		1.00	0.94	8.232	9.05	242.47	0.650	0.000	2.00	8.384	5.45	49.3	0.0	464.0
86.00		1.00	0.95	8.287	9.12	240.45	0.650	0.000	2.00	8.287	5.39	49.1	0.0	458.6
88.00		1.00	0.95	8.342	9.18	238.40	0.650	0.000	2.00	8.190	5.32	48.8	0.0	453.2
90.00		1.00	0.96	8.396	9.24	236.31	0.650	0.000	2.00	8.093	5.26	48.6	0.0	447.7

Wind Loading - Shaft

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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92.00	1.00	0.96	8.448	9.29	234.19	0.650	0.000	2.00	7.995	5.20	48.3	0.0	442.3
94.00	1.00	0.97	8.501	9.35	232.04	0.650	0.000	2.00	7.898	5.13	48.0	0.0	436.9
94.08 Bot - Section 3	1.00	0.97	8.503	9.35	231.95	0.650	0.000	0.08	0.327	0.21	2.0	0.0	18.1
96.00	1.00	0.98	8.552	9.41	229.85	0.650	0.000	1.92	7.596	4.94	46.4	0.0	774.0
98.00	1.00	0.98	8.602	9.46	227.64	0.650	0.000	2.00	7.831	5.09	48.2	0.0	797.8
100.00	1.00	0.99	8.652	9.52	225.40	0.650	0.000	2.00	7.733	5.03	47.8	0.0	787.7
100.17 Top - Section 2	1.00	0.99	8.656	9.52	225.21	0.650	0.000	0.17	0.640	0.42	4.0	0.0	65.2
102.00	1.00	0.99	8.701	9.57	226.93	0.650	0.000	1.83	6.996	4.55	43.5	0.0	332.1
104.00	1.00	1.00	8.750	9.62	224.64	0.650	0.000	2.00	7.539	4.90	47.2	0.0	357.8
106.00	1.00	1.00	8.797	9.68	222.33	0.650	0.000	2.00	7.442	4.84	46.8	0.0	353.1
108.00	1.00	1.01	8.845	9.73	220.00	0.650	0.000	2.00	7.345	4.77	46.4	0.0	348.5
110.00	1.00	1.02	8.891	9.78	217.64	0.650	0.000	2.00	7.247	4.71	46.1	0.0	343.8
112.00	1.00	1.02	8.937	9.83	215.25	0.650	0.000	2.00	7.150	4.65	45.7	0.0	339.2
114.00	1.00	1.03	8.982	9.88	212.84	0.650	0.000	2.00	7.053	4.58	45.3	0.0	334.5
116.00	1.00	1.03	9.027	9.93	210.41	0.650	0.000	2.00	6.956	4.52	44.9	0.0	329.9
118.00	1.00	1.04	9.071	9.98	207.96	0.650	0.000	2.00	6.859	4.46	44.5	0.0	325.2
120.00	1.00	1.04	9.115	10.03	205.48	0.650	0.000	2.00	6.762	4.39	44.1	0.0	320.6
122.00	1.00	1.05	9.158	10.07	202.99	0.650	0.000	2.00	6.664	4.33	43.6	0.0	315.9
124.00	1.00	1.05	9.201	10.12	200.47	0.652 *	0.000	2.00	6.567	4.28	43.3	0.0	311.3
126.00	1.00	1.06	9.243	10.17	197.93	0.655 *	0.000	2.00	6.470	4.24	43.1	0.0	306.6
128.00	1.00	1.06	9.284	10.21	195.37	0.658 *	0.000	2.00	6.373	4.19	42.8	0.0	302.0
130.00	1.00	1.07	9.326	10.26	192.80	0.661 *	0.000	2.00	6.276	4.15	42.6	0.0	297.3
132.00	1.00	1.07	9.366	10.30	190.20	0.664 *	0.000	2.00	6.178	4.10	42.3	0.0	292.7
134.00	1.00	1.07	9.407	10.35	187.59	0.668 *	0.000	2.00	6.081	4.06	42.0	0.0	288.0
136.00	1.00	1.08	9.447	10.39	184.96	0.671 *	0.000	2.00	5.984	4.02	41.7	0.0	283.4
138.00	1.00	1.08	9.486	10.43	182.31	0.675 *	0.000	2.00	5.887	3.97	41.4	0.0	278.7
140.00	1.00	1.09	9.525	10.48	179.64	0.678 *	0.000	2.00	5.790	3.93	41.2	0.0	274.1
142.00	1.00	1.09	9.564	10.52	176.96	0.682 *	0.000	2.00	5.692	3.88	40.9	0.0	269.4
143.75 Bot - Section 4	1.00	1.10	9.597	10.56	174.60	0.686 *	0.000	1.75	4.901	3.36	35.5	0.0	231.9
144.00	1.00	1.10	9.602	10.56	174.26	0.746 *	0.000	0.25	0.702	0.52	5.5	0.0	49.5
144.50 Appurtenance(s)	1.00	1.10	9.612	10.57	173.58	0.747 *	0.000	0.50	1.399	1.05	11.1	0.0	98.8
145.75 RB1	1.00	1.10	9.635	10.60	171.88	0.750 *	0.000	1.25	3.472	2.60	27.6	0.0	245.0
146.00	1.00	1.10	9.640	10.60	171.54	0.752 *	0.000	0.25	0.690	0.52	5.5	0.0	48.7
148.00	1.00	1.11	9.678	10.65	168.81	0.755 *	0.000	2.00	5.464	4.12	43.9	0.0	385.5
148.08 Top - Section 3	1.00	1.11	9.679	10.65	168.70	0.758 *	0.000	0.08	0.226	0.17	1.8	0.0	15.9
149.50 Appurtenance(s)	1.00	1.11	9.706	10.68	168.76	0.756 *	0.000	1.42	3.809	2.88	30.7	0.0	90.6
150.00	1.00	1.11	9.715	10.69	168.07	0.759 *	0.000	0.50	1.333	1.01	10.8	0.0	31.7
151.75 RT1	1.00	1.11	9.747	10.72	165.66	0.762 *	0.000	1.75	4.616	3.52	37.7	0.0	109.8
152.00	1.00	1.11	9.752	10.73	165.31	0.765 *	0.000	0.25	0.653	0.50	5.4	0.0	15.5
154.00	1.00	1.12	9.788	10.77	162.54	0.760 *	0.000	2.00	5.173	3.93	42.3	0.0	123.0
154.50 Appurtenance(s)	1.00	1.12	9.797	10.78	161.84	0.708 *	0.000	0.50	1.278	0.90	9.8	0.0	30.4
155.00 Appurtenance(s)	1.00	1.12	9.806	10.79	161.14	0.709 *	0.000	0.50	1.272	0.90	9.7	0.0	30.2
156.00	1.00	1.12	9.824	10.81	159.75	0.711 *	0.000	1.00	2.526	1.80	19.4	0.0	60.1
158.00	1.00	1.13	9.860	10.85	156.94	0.715 *	0.000	2.00	4.978	3.56	38.6	0.0	118.4
159.50 Appurtenance(s)	1.00	1.13	9.887	10.88	154.83	0.719 *	0.000	1.50	3.670	2.64	28.7	0.0	87.3
160.00	1.00	1.13	9.896	10.89	154.13	0.722 *	0.000	0.50	1.211	0.87	9.5	0.0	28.8
162.00	1.00	1.13	9.931	10.92	151.29	0.725 *	0.000	2.00	4.784	3.47	37.9	0.0	113.7
164.00	1.00	1.14	9.966	10.96	148.45	0.731 *	0.000	2.00	4.687	3.43	37.6	0.0	111.4
164.50 Appurtenance(s)	1.00	1.14	9.974	10.97	147.74	0.735 *	0.000	0.50	1.156	0.85	9.3	0.0	27.5
165.00 Appurtenance(s)	1.00	1.14	9.983	10.98	147.02	0.736 *	0.000	0.50	1.150	0.85	9.3	0.0	27.3
166.00	1.00	1.14	10.000	11.00	145.59	0.650	0.000	1.00	2.283	1.48	16.3	0.0	54.2
168.00	1.00	1.15	10.035	11.04	142.72	0.650	0.000	2.00	4.492	2.92	32.2	0.0	106.7
169.50 Appurtenance(s)	1.00	1.15	10.060	11.07	140.55	0.650	0.000	1.50	3.305	2.15	23.8	0.0	78.5
170.00	1.00	1.15	10.069	11.08	139.83	0.650	0.000	0.50	1.090	0.71	7.8	0.0	25.9
172.00	1.00	1.15	10.102	11.11	136.93	0.650	0.000	2.00	4.298	2.79	31.0	0.0	102.1
174.00	1.00	1.16	10.136	11.15	134.02	0.650	0.000	2.00	4.201	2.73	30.4	0.0	99.8
174.50 Appurtenance(s)	1.00	1.16	10.144	11.16	133.29	0.650	0.000	0.50	1.035	0.67	7.5	0.0	24.6

Wind Loading - Shaft

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 70



175.00 Appurtenance(s)	1.00	1.16	10.152	11.17	132.56	0.650	0.000	0.50	1.029	0.67	7.5	0.0	24.4
176.00	1.00	1.16	10.169	11.19	131.10	0.650	0.000	1.00	2.040	1.33	14.8	0.0	48.4
178.00	1.00	1.17	10.202	11.22	128.16	0.650	0.000	2.00	4.006	2.60	29.2	0.0	95.1
179.50 Appurtenance(s)	1.00	1.17	10.226	11.25	125.95	0.650	0.000	1.50	2.941	1.91	21.5	0.0	69.8
180.00	1.00	1.17	10.234	11.26	125.21	0.650	0.000	0.50	0.968	0.63	7.1	0.0	23.0
182.00	1.00	1.17	10.267	11.29	122.26	0.650	0.000	2.00	3.812	2.48	28.0	0.0	90.5
184.00	1.00	1.18	10.299	11.33	119.28	0.650	0.000	2.00	3.715	2.41	27.4	0.0	88.1
185.00 Appurtenance(s)	1.00	1.18	10.315	11.35	117.79	0.650	0.000	1.00	1.821	1.18	13.4	0.0	43.2
* Cf Adjusted by Linear Load Ra Effect								Totals:	185.00		4,189.1		40,447.1

Discrete Appurtenance Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

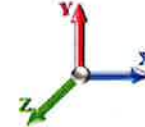
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

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	185.00	Cobra Arms	3	10.315	11.346	0.75	1.00	14.63	1050.00	0.000	0.000	165.94	0.00	0.00
2	185.00	Allen Telecom	6	10.347	11.381	0.75	1.00	2.48	105.00	0.000	2.000	28.17	0.00	56.34
3	185.00	Kathrein 782 11056	3	10.347	11.381	0.67	1.00	0.26	8.70	0.000	2.000	2.97	0.00	5.95
4	185.00	Commscope LNX-6515DS	3	10.347	11.381	0.80	1.00	27.53	150.90	0.000	2.000	313.30	0.00	626.60
5	185.00	EMS RR90-17-02DP	3	10.347	11.381	0.79	1.00	10.33	54.00	0.000	2.000	117.60	0.00	235.21
6	185.00	6' Pole Branch	1	10.315	11.346	1.00	1.00	16.06	300.00	0.000	0.000	182.22	0.00	0.00
7	179.50	6' Pole Branch	1	10.226	11.249	1.00	1.00	46.00	300.00	0.000	0.000	517.45	0.00	0.00
8	175.00	RFS APXVTM14-C-120	3	10.152	11.168	0.63	0.80	12.02	168.00	0.000	0.000	134.24	0.00	0.00
9	175.00	RFS APXVSP18-C-A20	3	10.152	11.168	0.66	0.80	15.98	171.00	0.000	0.000	178.41	0.00	0.00
10	175.00	Alcatel Lucent 800 MHz	3	10.152	11.168	0.60	0.80	4.48	159.00	0.000	0.000	50.05	0.00	0.00
11	175.00	Cobra Arms	3	10.152	11.168	0.56	0.75	22.78	1200.00	0.000	0.000	254.41	0.00	0.00
12	175.00	Alcatel Lucent 800 MHz	3	10.152	11.168	0.60	0.80	5.24	52.50	0.000	0.000	58.50	0.00	0.00
13	175.00	Alcatel Lucent	3	10.152	11.168	0.60	0.80	7.29	210.00	0.000	0.000	81.41	0.00	0.00
14	175.00	Alcatel Lucent 1900 MHz	3	10.152	11.168	0.60	0.80	6.84	132.00	0.000	0.000	76.39	0.00	0.00
15	175.00	RFS ACU-A20-N RETs	4	10.152	11.168	0.54	0.80	0.30	4.00	0.000	0.000	3.35	0.00	0.00
16	174.50	7' Pole Branch	1	10.144	11.158	1.00	1.00	15.00	460.00	0.000	0.000	167.38	0.00	0.00
17	169.50	8' Pole Branch	1	10.060	11.066	1.00	1.00	35.00	560.00	0.000	0.000	387.31	0.00	0.00
18	165.00	DB-B1-6C-12AB-0Z	2	9.983	10.981	0.73	0.80	5.97	42.80	0.000	0.000	65.55	0.00	0.00
19	165.00	RRH4X45-AWS	3	9.983	10.981	0.64	0.80	4.99	192.00	0.000	0.000	54.82	0.00	0.00
20	165.00	SBNHH-1D65B	6	9.983	10.981	0.66	0.80	32.51	240.00	0.000	0.000	357.00	0.00	0.00
21	165.00	Antel LPA 80063/6CF	2	9.983	10.981	0.75	0.80	14.44	54.00	0.000	0.000	158.55	0.00	0.00
22	165.00	Swedcom SC-E 6014 Rev	4	9.983	10.981	0.78	0.80	10.34	60.00	0.000	0.000	113.51	0.00	0.00
23	165.00	Cobra Arms	3	9.983	10.981	0.56	0.75	22.78	1200.00	0.000	0.000	250.17	0.00	0.00
24	165.00	RRH2X60-700	3	9.983	10.981	0.61	0.80	6.38	165.00	0.000	0.000	70.10	0.00	0.00
25	164.50	8' Pole Branch	1	9.974	10.972	1.00	1.00	24.24	560.00	0.000	0.000	265.96	0.00	0.00
26	159.50	9' Pole Branch	1	9.887	10.875	1.00	1.00	45.00	660.00	0.000	0.000	489.40	0.00	0.00
27	155.00	Powerwave	3	9.806	10.787	0.62	0.80	15.28	159.00	0.000	0.000	164.78	0.00	0.00
28	155.00	Cobra Arms	3	9.806	10.787	0.56	0.75	22.78	1200.00	0.000	0.000	245.74	0.00	0.00
29	155.00	Powerwave 7770.00	6	9.806	10.787	0.62	0.80	20.59	210.00	0.000	0.000	222.12	0.00	0.00
30	155.00	Ericsson RRUS-11 RRUs	6	9.806	10.787	0.54	0.80	14.43	330.00	0.000	0.000	155.62	0.00	0.00
31	155.00	Powerwave LGP 21401	6	9.806	10.787	0.54	0.80	3.06	105.00	0.000	0.000	32.96	0.00	0.00
32	155.00	Powerwave LGP21903	6	9.806	10.787	0.67	0.80	1.09	33.00	0.000	0.000	11.74	0.00	0.00
33	155.00	Raycap DC6-48-60-18-8F	1	9.806	10.787	0.80	0.80	1.18	31.80	0.000	0.000	12.69	0.00	0.00
34	154.50	9' Pole Branch	1	9.797	10.777	1.00	1.00	33.48	660.00	0.000	0.000	360.81	0.00	0.00
35	149.50	10' Pole Branch	1	9.706	10.676	1.00	1.00	50.00	700.00	0.000	0.000	533.81	0.00	0.00
36	144.50	11' Pole Branch	1	9.612	10.573	1.00	1.00	42.72	720.00	0.000	0.000	451.67	0.00	0.00
Totals:									12,407.70			6,736.10		

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

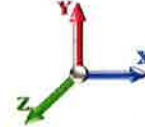


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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

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
2.00		53.55	682.68	0.00	0.00
4.00		53.13	718.19	0.00	0.00
6.00		52.70	753.70	0.00	0.00
8.00		52.28	748.28	0.00	0.00
10.00		51.85	742.85	0.00	0.00
12.00		51.42	737.42	0.00	0.00
14.00		51.00	731.99	0.00	0.00
16.00		50.57	726.57	0.00	0.00
18.00		50.15	721.14	0.00	0.00
20.00		49.72	715.71	0.00	0.00
22.00		49.29	710.28	0.00	0.00
24.00		48.87	704.86	0.00	0.00
26.00		48.44	699.43	0.00	0.00
28.00		48.02	694.00	0.00	0.00
30.00		47.63	688.58	0.00	0.00
32.00		48.08	683.15	0.00	0.00
34.00		48.48	677.72	0.00	0.00
36.00		48.83	672.29	0.00	0.00
38.00		49.13	666.87	0.00	0.00
40.00		49.40	661.44	0.00	0.00
42.00		49.62	656.01	0.00	0.00
44.00		49.81	650.58	0.00	0.00
46.00		49.96	645.16	0.00	0.00
46.17		4.15	53.52	0.00	0.00
48.00		46.58	1100.91	0.00	0.00
50.00		50.93	1190.59	0.00	0.00
52.00		51.01	1179.74	0.00	0.00
54.00		51.06	1168.88	0.00	0.00
56.00		51.08	626.29	0.00	0.00
58.00		51.08	620.86	0.00	0.00
60.00		51.06	615.43	0.00	0.00
62.00		51.01	610.01	0.00	0.00
64.00		50.95	604.58	0.00	0.00
66.00		50.87	599.15	0.00	0.00
68.00		50.76	593.72	0.00	0.00
70.00		50.64	588.30	0.00	0.00
72.00		50.50	582.87	0.00	0.00
74.00		50.35	577.44	0.00	0.00
76.00		50.18	572.01	0.00	0.00
78.00		49.99	566.59	0.00	0.00
80.00		49.79	561.16	0.00	0.00
82.00		49.58	555.73	0.00	0.00
84.00		49.35	550.30	0.00	0.00
86.00		49.10	544.88	0.00	0.00
88.00		48.85	539.45	0.00	0.00
90.00		48.58	534.02	0.00	0.00

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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92.00		48.30	528.60	0.00	0.00
94.00		48.00	523.17	0.00	0.00
94.08		1.99	21.68	0.00	0.00
96.00		46.44	856.69	0.00	0.00
98.00		48.16	884.07	0.00	0.00
100.00		47.84	873.99	0.00	0.00
100.17		3.96	72.38	0.00	0.00
102.00		43.53	411.16	0.00	0.00
104.00		47.16	444.08	0.00	0.00
106.00		46.81	439.42	0.00	0.00
108.00		46.45	434.77	0.00	0.00
110.00		46.07	430.12	0.00	0.00
112.00		45.69	425.47	0.00	0.00
114.00		45.30	420.82	0.00	0.00
116.00		44.90	416.16	0.00	0.00
118.00		44.48	411.51	0.00	0.00
120.00		44.07	406.86	0.00	0.00
122.00		43.64	402.21	0.00	0.00
124.00		43.33	397.56	0.00	0.00
126.00		43.08	392.90	0.00	0.00
128.00		42.82	388.25	0.00	0.00
130.00		42.56	383.60	0.00	0.00
132.00		42.29	378.95	0.00	0.00
134.00		42.01	374.30	0.00	0.00
136.00		41.73	369.64	0.00	0.00
138.00		41.45	364.99	0.00	0.00
140.00		41.15	360.34	0.00	0.00
142.00		40.86	355.69	0.00	0.00
143.75		35.49	307.41	0.00	0.00
144.00		5.54	60.33	0.00	0.00
144.50	(1) attachments	462.73	840.33	0.00	0.00
145.75		27.59	298.92	0.00	0.00
146.00		5.50	59.46	0.00	0.00
148.00		43.90	471.74	0.00	0.00
148.08		1.82	19.50	0.00	0.00
149.50	(1) attachments	564.55	851.73	0.00	0.00
150.00		10.80	53.27	0.00	0.00
151.75		37.70	185.31	0.00	0.00
152.00		5.36	26.33	0.00	0.00
154.00		42.33	209.31	0.00	0.00
154.50	(1) attachments	370.56	711.96	0.00	0.00
155.00	(31) attachments	855.38	2120.62	0.00	0.00
156.00		19.41	89.86	0.00	0.00
158.00		38.60	177.97	0.00	0.00
159.50	(1) attachments	518.11	791.95	0.00	0.00
160.00		9.52	43.69	0.00	0.00
162.00		37.91	173.32	0.00	0.00
164.00		37.56	171.00	0.00	0.00
164.50	(1) attachments	275.28	602.39	0.00	0.00
165.00	(23) attachments	1079.00	1996.04	0.00	0.00
166.00		16.32	69.36	0.00	0.00
168.00		32.23	136.98	0.00	0.00
169.50	(1) attachments	411.09	661.21	0.00	0.00
170.00		7.84	33.45	0.00	0.00
172.00		31.04	132.33	0.00	0.00
174.00		30.44	130.01	0.00	0.00
174.50	(1) attachments	174.88	492.14	0.00	0.00

Total Applied Force Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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175.00	(25) attachments	844.23	2128.49	0.00	0.00
176.00		14.83	60.91	0.00	0.00
178.00		29.22	120.07	0.00	0.00
179.50	(1) attachments	538.95	388.53	0.00	0.00
180.00		7.08	29.22	0.00	0.00
182.00		27.98	115.42	0.00	0.00
184.00		27.35	113.10	0.00	0.00
185.00	(19) attachments	823.64	1724.28	0.00	924.09
Totals:		10,925.22	59,992.64	0.00	924.09

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

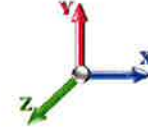
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

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)
2.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.027	0.000	6.129	0.00	4.40
4.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.041	0.000	6.129	0.00	6.24
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.041	0.000	6.129	0.00	4.40
6.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.055	0.000	6.129	0.00	12.48
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.055	0.000	6.129	0.00	4.40
8.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.056	0.000	6.129	0.00	12.48
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.056	0.000	6.129	0.00	4.40
10.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.056	0.000	6.129	0.00	12.48
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.056	0.000	6.129	0.00	4.40
12.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	6.129	0.00	12.48
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	6.129	0.00	4.40
14.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	6.129	0.00	12.48
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	6.129	0.00	4.40
16.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.057	0.000	6.129	0.00	12.48
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.057	0.000	6.129	0.00	4.40
18.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.058	0.000	6.129	0.00	12.48
18.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.058	0.000	6.129	0.00	4.40
20.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.058	0.000	6.129	0.00	12.48
20.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.058	0.000	6.129	0.00	4.40
22.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.059	0.000	6.129	0.00	12.48
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	6.129	0.00	4.40
24.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.059	0.000	6.129	0.00	12.48
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	6.129	0.00	4.40
26.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.060	0.000	6.129	0.00	12.48
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	6.129	0.00	4.40
28.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	6.129	0.00	12.48
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	6.129	0.00	4.40
30.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.061	0.000	6.134	0.00	12.48
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	6.134	0.00	4.40
32.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.062	0.000	6.248	0.00	12.48
32.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	6.248	0.00	4.40
34.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.062	0.000	6.357	0.00	12.48
34.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	6.357	0.00	4.40
36.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	6.462	0.00	12.48
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	6.462	0.00	4.40
38.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.063	0.000	6.562	0.00	12.48
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	6.562	0.00	4.40
40.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.064	0.000	6.659	0.00	12.48
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.064	0.000	6.659	0.00	4.40
42.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.065	0.000	6.753	0.00	12.48
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	6.753	0.00	4.40
44.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.065	0.000	6.843	0.00	12.48
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	6.843	0.00	4.40
46.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.066	0.000	6.931	0.00	12.48
46.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	6.931	0.00	4.40
46.17	1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	0.066	0.000	6.938	0.00	1.04
46.17	1 5/8" Hybrid	Yes	0.17	0.000	2.00	0.03	0.00	0.066	0.000	6.938	0.00	0.37

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Site Name: North Easton

Height: 185.00 (ft)

Base Elev: 0.000 (ft)

Gh: 1.1

Topography: 1

Code: EIA/TIA-222-G

Exposure: B

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: II

9/30/2016

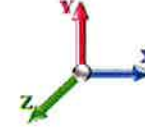
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

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)
48.00	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.066	0.000	7.015	0.00	11.44
48.00	1 5/8" Hybrid	Yes	1.83	0.000	2.00	0.31	0.00	0.066	0.000	7.015	0.00	4.03
50.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.067	0.000	7.098	0.00	12.48
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	7.098	0.00	4.40
52.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	7.178	0.00	12.48
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	7.178	0.00	4.40
54.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	7.255	0.00	12.48
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	7.255	0.00	4.40
56.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.068	0.000	7.331	0.00	12.48
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	7.331	0.00	4.40
58.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.069	0.000	7.405	0.00	12.48
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	7.405	0.00	4.40
60.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.069	0.000	7.477	0.00	12.48
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	7.477	0.00	4.40
62.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.070	0.000	7.548	0.00	12.48
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	7.548	0.00	4.40
64.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.071	0.000	7.616	0.00	12.48
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	7.616	0.00	4.40
66.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.072	0.000	7.684	0.00	12.48
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	7.684	0.00	4.40
68.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.072	0.000	7.749	0.00	12.48
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	7.749	0.00	4.40
70.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.073	0.000	7.814	0.00	12.48
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	7.814	0.00	4.40
72.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.074	0.000	7.877	0.00	12.48
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.074	0.000	7.877	0.00	4.40
74.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.075	0.000	7.939	0.00	12.48
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	7.939	0.00	4.40
76.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.076	0.000	8.000	0.00	12.48
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	8.000	0.00	4.40
78.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.076	0.000	8.059	0.00	12.48
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	8.059	0.00	4.40
80.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.077	0.000	8.118	0.00	12.48
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	8.118	0.00	4.40
82.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.078	0.000	8.175	0.00	12.48
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	8.175	0.00	4.40
84.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.079	0.000	8.232	0.00	12.48
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	8.232	0.00	4.40
86.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.080	0.000	8.287	0.00	12.48
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	8.287	0.00	4.40
88.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.081	0.000	8.342	0.00	12.48
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	8.342	0.00	4.40
90.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.082	0.000	8.396	0.00	12.48
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	8.396	0.00	4.40
92.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.083	0.000	8.448	0.00	12.48
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	8.448	0.00	4.40
94.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.084	0.000	8.501	0.00	12.48

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

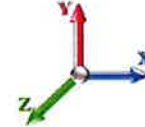
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

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)
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	8.501	0.00	4.40
94.08	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.085	0.000	8.503	0.00	0.52
94.08	1 5/8" Hybrid	Yes	0.08	0.000	2.00	0.01	0.00	0.085	0.000	8.503	0.00	0.18
96.00	1 5/8" Coax	Yes	1.92	0.000	1.98	0.32	0.00	0.085	0.000	8.552	0.00	11.96
96.00	1 5/8" Hybrid	Yes	1.92	0.000	2.00	0.32	0.00	0.085	0.000	8.552	0.00	4.22
98.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.086	0.000	8.602	0.00	12.48
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	8.602	0.00	4.40
100.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.087	0.000	8.652	0.00	12.48
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	8.652	0.00	4.40
100.17	1 5/8" Coax	Yes	0.17	0.000	1.98	0.03	0.00	0.088	0.000	8.656	0.00	1.04
100.17	1 5/8" Hybrid	Yes	0.17	0.000	2.00	0.03	0.00	0.088	0.000	8.656	0.00	0.37
102.00	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.087	0.000	8.701	0.00	11.44
102.00	1 5/8" Hybrid	Yes	1.83	0.000	2.00	0.31	0.00	0.087	0.000	8.701	0.00	4.03
104.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.088	0.000	8.750	0.00	12.48
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	8.750	0.00	4.40
106.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.089	0.000	8.797	0.00	12.48
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	8.797	0.00	4.40
108.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.090	0.000	8.845	0.00	12.48
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	8.845	0.00	4.40
110.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.092	0.000	8.891	0.00	12.48
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	8.891	0.00	4.40
112.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.093	0.000	8.937	0.00	12.48
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	8.937	0.00	4.40
114.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.094	0.000	8.982	0.00	12.48
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.094	0.000	8.982	0.00	4.40
116.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.095	0.000	9.027	0.00	12.48
116.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	9.027	0.00	4.40
118.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.097	0.000	9.071	0.00	12.48
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.097	0.000	9.071	0.00	4.40
120.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.098	0.000	9.115	0.00	12.48
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.098	0.000	9.115	0.00	4.40
122.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.100	0.000	9.158	0.00	12.48
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.100	0.000	9.158	0.00	4.40
124.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.101	1.003	9.201	0.00	12.48
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.101	1.003	9.201	0.00	4.40
126.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.103	1.008	9.243	0.00	12.48
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.103	1.008	9.243	0.00	4.40
128.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.104	1.012	9.284	0.00	12.48
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.104	1.012	9.284	0.00	4.40
130.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.106	1.017	9.326	0.00	12.48
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.106	1.017	9.326	0.00	4.40
132.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.107	1.022	9.366	0.00	12.48
132.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.107	1.022	9.366	0.00	4.40
134.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.109	1.027	9.407	0.00	12.48
134.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.027	9.407	0.00	4.40
136.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.111	1.033	9.447	0.00	12.48
136.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.033	9.447	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

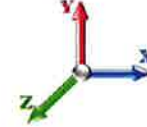
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

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)
138.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.113	1.038	9.486	0.00	12.48
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.038	9.486	0.00	4.40
140.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.115	1.044	9.525	0.00	12.48
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.115	1.044	9.525	0.00	4.40
142.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.117	1.050	9.564	0.00	12.48
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	9.564	0.00	4.40
143.75	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.118	1.055	9.597	0.00	10.92
143.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.118	1.055	9.597	0.00	3.85
144.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.149	1.148	9.602	0.00	1.56
144.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.149	1.148	9.602	0.00	0.55
144.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.149	1.148	9.602	0.00	0.00
144.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.150	1.150	9.612	0.00	3.12
144.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.150	1.150	9.612	0.00	1.10
144.50	1" Reinforcing plate	Yes	0.50	0.000	1.00	0.04	0.00	0.150	1.150	9.612	0.00	0.00
145.75	1 5/8" Coax	Yes	1.25	0.000	1.98	0.21	0.00	0.151	1.153	9.635	0.00	7.80
145.75	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.151	1.153	9.635	0.00	2.75
145.75	1" Reinforcing plate	Yes	1.25	0.000	1.00	0.10	0.00	0.151	1.153	9.635	0.00	0.00
146.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.152	1.156	9.640	0.00	1.56
146.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.152	1.156	9.640	0.00	0.55
146.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.152	1.156	9.640	0.00	0.00
148.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.154	1.161	9.678	0.00	12.48
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.154	1.161	9.678	0.00	4.40
148.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.154	1.161	9.678	0.00	0.00
148.08	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.155	1.165	9.679	0.00	0.52
148.08	1 5/8" Hybrid	Yes	0.08	0.000	2.00	0.01	0.00	0.155	1.165	9.679	0.00	0.18
148.08	1" Reinforcing plate	Yes	0.08	0.000	1.00	0.01	0.00	0.155	1.165	9.679	0.00	0.00
149.50	1 5/8" Coax	Yes	1.42	0.000	1.98	0.23	0.00	0.154	1.163	9.706	0.00	8.84
149.50	1 5/8" Hybrid	Yes	1.42	0.000	2.00	0.24	0.00	0.154	1.163	9.706	0.00	3.12
149.50	1" Reinforcing plate	Yes	1.42	0.000	1.00	0.12	0.00	0.154	1.163	9.706	0.00	0.00
150.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.156	1.167	9.715	0.00	3.12
150.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.156	1.167	9.715	0.00	1.10
150.00	1" Reinforcing plate	Yes	0.50	0.000	1.00	0.04	0.00	0.156	1.167	9.715	0.00	0.00
151.75	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.157	1.172	9.747	0.00	10.92
151.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.157	1.172	9.747	0.00	3.85
151.75	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.157	1.172	9.747	0.00	0.00
152.00	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.159	1.176	9.752	0.00	1.56
152.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.159	1.176	9.752	0.00	0.55
152.00	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.159	1.176	9.752	0.00	0.00
154.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.156	1.169	9.788	0.00	12.48
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.156	1.169	9.788	0.00	4.40
154.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.156	1.169	9.788	0.00	0.00
154.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.130	1.089	9.797	0.00	3.12
154.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.130	1.089	9.797	0.00	1.10
155.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.130	1.091	9.806	0.00	3.12
155.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.130	1.091	9.806	0.00	1.10
156.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.131	1.094	9.824	0.00	6.24
156.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.131	1.094	9.824	0.00	2.20

Linear Appurtenance Segment Forces (Factored)

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

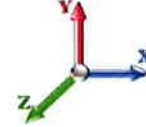
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 27

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)
158.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.133	1.100	9.860	0.00	12.48
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.133	1.100	9.860	0.00	4.40
159.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.136	1.107	9.887	0.00	9.36
159.50	1 5/8" Hybrid	Yes	1.50	0.000	2.00	0.25	0.00	0.136	1.107	9.887	0.00	3.30
160.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.137	1.111	9.896	0.00	3.12
160.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.137	1.111	9.896	0.00	1.10
162.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.139	1.116	9.931	0.00	12.48
162.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.139	1.116	9.931	0.00	4.40
164.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.142	1.125	9.966	0.00	12.48
164.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.142	1.125	9.966	0.00	4.40
164.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.143	1.130	9.974	0.00	3.12
164.50	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.143	1.130	9.974	0.00	1.10
165.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.144	1.132	9.983	0.00	3.12
165.00	1 5/8" Hybrid	Yes	0.50	0.000	2.00	0.08	0.00	0.144	1.132	9.983	0.00	1.10
166.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.072	0.000	10.000	0.00	6.24
168.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.073	0.000	10.035	0.00	12.48
169.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.075	0.000	10.060	0.00	9.36
170.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.076	0.000	10.069	0.00	3.12
172.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.077	0.000	10.102	0.00	12.48
174.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.079	0.000	10.136	0.00	12.48
174.50	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.080	0.000	10.144	0.00	3.12
175.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.080	0.000	10.152	0.00	3.12
176.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.081	0.000	10.169	0.00	6.24
178.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.082	0.000	10.202	0.00	12.48
179.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.084	0.000	10.226	0.00	9.36
180.00	1 5/8" Coax	Yes	0.50	0.000	1.98	0.08	0.00	0.085	0.000	10.234	0.00	3.12
182.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.087	0.000	10.267	0.00	12.48
184.00	1 5/8" Coax	Yes	2.00	0.000	1.98	0.33	0.00	0.089	0.000	10.299	0.00	12.48
185.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.091	0.000	10.315	0.00	6.24
Totals:											0.0	1,498.7

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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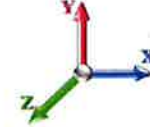


Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 27

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	-59.99	-10.93	0.00	-1526.3	0.00	1526.39	6186.26	3093.13	18350.4	9188.88	0.00	0.000	0.000	0.176
2.00	-59.31	-10.89	0.00	-1504.5	0.00	1504.53	6161.28	3080.64	18129.8	9078.39	0.00	-0.013	0.000	0.175
4.00	-58.59	-10.85	0.00	-1482.7	0.00	1482.75	6135.91	3067.96	17909.2	8967.93	0.01	-0.026	0.000	0.175
6.00	-57.83	-10.81	0.00	-1461.0	0.00	1461.05	6110.15	3055.07	17688.7	8857.51	0.03	-0.040	0.000	0.174
8.00	-57.08	-10.77	0.00	-1439.4	0.00	1439.43	6084.00	3042.00	17468.3	8747.14	0.05	-0.053	0.000	0.174
10.00	-56.33	-10.73	0.00	-1417.8	0.00	1417.89	6057.45	3028.73	17248.0	8636.84	0.07	-0.067	0.000	0.173
12.00	-55.59	-10.69	0.00	-1396.4	0.00	1396.43	6030.52	3015.26	17027.9	8526.61	0.10	-0.081	0.000	0.173
14.00	-54.86	-10.65	0.00	-1375.0	0.00	1375.04	6003.19	3001.60	16807.9	8416.48	0.14	-0.095	0.000	0.173
16.00	-54.13	-10.62	0.00	-1353.7	0.00	1353.73	5975.47	2987.74	16588.2	8306.46	0.18	-0.109	0.000	0.172
18.00	-53.41	-10.58	0.00	-1332.5	0.00	1332.50	5947.37	2973.68	16368.7	8196.55	0.23	-0.123	0.000	0.172
20.00	-52.69	-10.54	0.00	-1311.3	0.00	1311.34	5918.87	2959.43	16149.5	8086.79	0.28	-0.137	0.000	0.171
22.00	-51.97	-10.50	0.00	-1290.2	0.00	1290.27	5889.98	2944.99	15930.6	7977.17	0.35	-0.152	0.000	0.171
24.00	-51.27	-10.46	0.00	-1269.2	0.00	1269.26	5860.70	2930.35	15712.0	7867.72	0.41	-0.166	0.000	0.170
26.00	-50.57	-10.43	0.00	-1248.3	0.00	1248.34	5831.03	2915.51	15493.8	7758.44	0.49	-0.181	0.000	0.170
28.00	-49.87	-10.39	0.00	-1227.4	0.00	1227.48	5800.97	2900.48	15276.0	7649.36	0.56	-0.196	0.000	0.169
30.00	-49.18	-10.35	0.00	-1206.7	0.00	1206.70	5770.52	2885.26	15058.5	7540.48	0.65	-0.211	0.000	0.169
32.00	-48.49	-10.31	0.00	-1186.0	0.00	1186.00	5739.67	2869.84	14841.5	7431.82	0.74	-0.226	0.000	0.168
34.00	-47.81	-10.28	0.00	-1165.3	0.00	1165.37	5708.44	2854.22	14625.0	7323.39	0.84	-0.241	0.000	0.168
36.00	-47.14	-10.24	0.00	-1144.8	0.00	1144.82	5676.81	2838.41	14409.0	7215.22	0.94	-0.257	0.000	0.167
38.00	-46.47	-10.20	0.00	-1124.3	0.00	1124.35	5644.80	2822.40	14193.5	7107.30	1.06	-0.273	0.000	0.166
40.00	-45.80	-10.16	0.00	-1103.9	0.00	1103.95	5612.39	2806.20	13978.5	6999.66	1.17	-0.288	0.000	0.166
42.00	-45.14	-10.12	0.00	-1083.6	0.00	1083.64	5579.60	2789.80	13764.1	6892.30	1.30	-0.304	0.000	0.165
44.00	-44.49	-10.08	0.00	-1063.4	0.00	1063.40	5546.41	2773.20	13550.3	6785.25	1.43	-0.321	0.000	0.165
46.00	-43.85	-10.03	0.00	-1043.2	0.00	1043.25	5512.83	2756.41	13337.2	6678.52	1.57	-0.337	0.000	0.164
46.17	-43.79	-10.03	0.00	-1041.5	0.00	1041.58	5510.01	2755.01	13319.4	6669.64	1.58	-0.338	0.000	0.164
48.00	-42.69	-9.99	0.00	-1023.1	0.00	1023.19	5478.86	2739.43	13124.7	6572.12	1.71	-0.353	0.000	0.163
50.00	-41.49	-9.94	0.00	-1003.2	0.00	1003.21	5444.50	2722.25	12912.9	6466.06	1.86	-0.370	0.000	0.163
52.00	-40.31	-9.90	0.00	-983.32	0.00	983.32	5409.75	2704.87	12701.8	6360.36	2.02	-0.387	0.000	0.162
54.00	-39.14	-9.85	0.00	-963.53	0.00	963.53	5427.99	2713.99	12812.2	6415.65	2.19	-0.404	0.000	0.157
56.00	-38.51	-9.80	0.00	-943.83	0.00	943.83	5393.05	2696.53	12601.5	6310.13	2.36	-0.421	0.000	0.157
58.00	-37.89	-9.76	0.00	-924.22	0.00	924.22	5357.72	2678.86	12391.5	6204.99	2.54	-0.437	0.000	0.156
60.00	-37.27	-9.72	0.00	-904.70	0.00	904.70	5322.01	2661.00	12182.3	6100.24	2.73	-0.454	0.000	0.155
62.00	-36.66	-9.67	0.00	-885.27	0.00	885.27	5285.90	2642.95	11974.0	5995.90	2.92	-0.471	0.000	0.155
64.00	-36.05	-9.62	0.00	-865.93	0.00	865.93	5249.40	2624.70	11766.4	5891.98	3.12	-0.488	0.000	0.154
66.00	-35.45	-9.58	0.00	-846.68	0.00	846.68	5212.50	2606.25	11559.8	5788.50	3.33	-0.505	0.000	0.153
68.00	-34.85	-9.53	0.00	-827.52	0.00	827.52	5175.22	2587.61	11354.0	5685.46	3.54	-0.522	0.000	0.152
70.00	-34.26	-9.49	0.00	-808.45	0.00	808.45	5137.55	2568.77	11149.2	5582.89	3.77	-0.539	0.000	0.151
72.00	-33.68	-9.44	0.00	-789.48	0.00	789.48	5099.49	2549.74	10945.3	5480.80	4.00	-0.557	0.000	0.151
74.00	-33.10	-9.40	0.00	-770.59	0.00	770.59	5061.03	2530.52	10742.4	5379.19	4.23	-0.575	0.000	0.150
76.00	-32.52	-9.35	0.00	-751.80	0.00	751.80	5022.19	2511.09	10540.5	5278.10	4.48	-0.592	0.000	0.149
78.00	-31.95	-9.31	0.00	-733.10	0.00	733.10	4982.95	2491.47	10339.6	5177.52	4.73	-0.610	0.000	0.148
80.00	-31.39	-9.26	0.00	-714.49	0.00	714.49	4943.32	2471.66	10139.8	5077.48	4.99	-0.629	0.000	0.147
82.00	-30.83	-9.21	0.00	-695.97	0.00	695.97	4903.30	2451.65	9941.18	4977.98	5.26	-0.647	0.000	0.146
84.00	-30.28	-9.17	0.00	-677.54	0.00	677.54	4862.90	2431.45	9743.60	4879.04	5.53	-0.665	0.000	0.145
86.00	-29.73	-9.12	0.00	-659.21	0.00	659.21	4822.10	2411.05	9547.17	4780.68	5.82	-0.684	0.000	0.144
88.00	-29.19	-9.08	0.00	-640.97	0.00	640.97	4780.91	2390.45	9351.91	4682.91	6.11	-0.703	0.000	0.143
90.00	-28.65	-9.03	0.00	-622.81	0.00	622.81	4739.33	2369.66	9157.86	4585.74	6.41	-0.722	0.000	0.142
92.00	-28.12	-8.98	0.00	-604.75	0.00	604.75	4697.35	2348.68	8965.05	4489.19	6.71	-0.741	0.000	0.141

Calculated Forces

Structure: CT00707-S-SBA

Code: EIA/TIA-222-G

9/30/2016

Site Name: North Easton

Exposure: B

Height: 185.00 (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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94.00	-27.60	-8.93	0.00	-586.79	0.00	586.79	4654.99	2327.50	8773.49	4393.27	7.03	-0.760	0.000	0.140
94.08	-27.58	-8.94	0.00	-586.04	0.00	586.04	4653.22	2326.61	8765.54	4389.28	7.04	-0.761	0.000	0.139
96.00	-26.72	-8.89	0.00	-568.91	0.00	568.91	4612.24	2306.12	8583.22	4297.99	7.35	-0.779	0.000	0.138
98.00	-25.83	-8.84	0.00	-551.14	0.00	551.14	4569.09	2284.55	8394.27	4203.37	7.68	-0.799	0.000	0.137
100.00	-24.96	-8.78	0.00	-533.46	0.00	533.46	4525.56	2262.78	8206.66	4109.43	8.02	-0.818	0.000	0.135
100.17	-24.88	-8.78	0.00	-532.00	0.00	532.00	3757.39	1878.70	6942.18	3476.25	8.05	-0.820	0.000	0.160
102.00	-24.47	-8.74	0.00	-515.90	0.00	515.90	3727.29	1863.64	6805.30	3407.71	8.37	-0.838	0.000	0.158
104.00	-24.02	-8.69	0.00	-498.42	0.00	498.42	3694.07	1847.03	6656.80	3333.35	8.72	-0.860	0.000	0.156
106.00	-23.58	-8.65	0.00	-481.04	0.00	481.04	3660.46	1830.23	6509.18	3259.43	9.09	-0.882	0.000	0.154
108.00	-23.14	-8.61	0.00	-463.74	0.00	463.74	3626.46	1813.23	6362.47	3185.96	9.46	-0.904	0.000	0.152
110.00	-22.71	-8.56	0.00	-446.52	0.00	446.52	3592.07	1796.03	6216.70	3112.97	9.85	-0.926	0.000	0.150
112.00	-22.28	-8.52	0.00	-429.40	0.00	429.40	3557.29	1778.64	6071.91	3040.47	10.24	-0.948	0.000	0.148
114.00	-21.86	-8.47	0.00	-412.36	0.00	412.36	3522.12	1761.06	5928.11	2968.46	10.64	-0.970	0.000	0.145
116.00	-21.44	-8.43	0.00	-395.42	0.00	395.42	3486.55	1743.28	5785.33	2896.97	11.05	-0.992	0.000	0.143
118.00	-21.03	-8.39	0.00	-378.56	0.00	378.56	3450.60	1725.30	5643.61	2826.00	11.47	-1.015	0.000	0.140
120.00	-20.62	-8.34	0.00	-361.78	0.00	361.78	3414.26	1707.13	5502.97	2755.57	11.90	-1.037	0.000	0.137
122.00	-20.21	-8.30	0.00	-345.10	0.00	345.10	3377.52	1688.76	5363.43	2685.70	12.34	-1.059	0.000	0.135
124.00	-19.81	-8.26	0.00	-328.50	0.00	328.50	3340.40	1670.20	5225.04	2616.40	12.79	-1.081	0.000	0.132
126.00	-19.42	-8.21	0.00	-311.98	0.00	311.98	3302.88	1651.44	5087.80	2547.68	13.25	-1.103	0.000	0.128
128.00	-19.03	-8.17	0.00	-295.56	0.00	295.56	3264.97	1632.49	4951.76	2479.56	13.71	-1.124	0.000	0.125
130.00	-18.64	-8.13	0.00	-279.21	0.00	279.21	3220.40	1610.20	4807.57	2407.36	14.19	-1.146	0.000	0.122
132.00	-18.26	-8.08	0.00	-262.96	0.00	262.96	3169.61	1584.80	4656.37	2331.65	14.67	-1.167	0.000	0.119
134.00	-17.88	-8.04	0.00	-246.79	0.00	246.79	3118.82	1559.41	4507.59	2257.15	15.17	-1.188	0.000	0.115
136.00	-17.51	-8.00	0.00	-230.71	0.00	230.71	3068.04	1534.02	4361.23	2183.86	15.67	-1.208	0.000	0.111
138.00	-17.15	-7.95	0.00	-214.71	0.00	214.71	3017.25	1508.63	4217.28	2111.78	16.18	-1.229	0.000	0.107
140.00	-16.78	-7.91	0.00	-198.80	0.00	198.80	2966.47	1483.23	4075.75	2040.91	16.70	-1.248	0.000	0.103
142.00	-16.43	-7.87	0.00	-182.98	0.00	182.98	2915.68	1457.84	3936.64	1971.24	17.23	-1.267	0.000	0.098
143.75	-16.12	-7.83	0.00	-169.21	0.00	169.21	2871.25	1435.62	3816.89	1911.28	17.69	-1.284	0.000	0.094
144.00	-16.06	-7.82	0.00	-167.26	0.00	167.26	2864.90	1432.45	3799.94	1902.79	17.76	-1.286	0.000	0.094
144.50	-15.23	-7.34	0.00	-163.34	0.00	163.34	2852.20	1426.10	3766.14	1885.87	17.90	-1.291	0.000	0.092
145.75	-14.93	-7.31	0.00	-154.17	0.00	154.17	2820.46	1410.23	3682.30	1843.89	18.24	-1.302	0.000	0.058
146.00	-14.87	-7.31	0.00	-152.34	0.00	152.34	2814.11	1407.06	3665.65	1835.55	18.30	-1.303	0.000	0.058
148.00	-14.40	-7.25	0.00	-137.73	0.00	137.73	2763.33	1381.66	3533.78	1769.52	18.85	-1.314	0.000	0.054
148.08	-14.38	-7.25	0.00	-137.12	0.00	137.12	1152.50	576.25	1508.33	755.29	18.88	-1.315	0.000	0.067
149.50	-13.54	-6.67	0.00	-126.85	0.00	126.85	1145.31	572.66	1479.63	740.91	19.27	-1.322	0.000	0.090
150.00	-13.48	-6.66	0.00	-123.52	0.00	123.52	1142.73	571.37	1469.50	735.84	19.41	-1.326	0.000	0.088
151.75	-13.30	-6.62	0.00	-111.87	0.00	111.87	1133.50	566.75	1434.03	718.08	19.89	-1.339	0.000	0.082
151.75	-13.30	-6.62	0.00	-111.87	0.00	111.87	1133.50	566.75	1434.03	718.08	19.89	-1.339	0.000	0.082
152.00	-13.27	-6.62	0.00	-110.21	0.00	110.21	1132.15	566.08	1428.97	715.55	19.97	-1.340	0.000	0.166
154.00	-13.06	-6.57	0.00	-96.98	0.00	96.98	1121.19	560.59	1388.46	695.26	20.53	-1.368	0.000	0.151
154.50	-12.36	-6.19	0.00	-93.70	0.00	93.70	1118.38	559.19	1378.34	690.19	20.68	-1.374	0.000	0.147
155.00	-10.26	-5.28	0.00	-90.60	0.00	90.60	1115.56	557.78	1368.22	685.13	20.82	-1.381	0.000	0.142
156.00	-10.17	-5.26	0.00	-85.32	0.00	85.32	1109.83	554.91	1348.00	675.00	21.11	-1.393	0.000	0.136
158.00	-9.99	-5.22	0.00	-74.80	0.00	74.80	1098.08	549.04	1307.61	654.78	21.70	-1.417	0.000	0.123
159.50	-9.21	-4.69	0.00	-66.96	0.00	66.96	1089.01	544.51	1277.39	639.64	22.15	-1.433	0.000	0.113
160.00	-9.16	-4.68	0.00	-64.62	0.00	64.62	1085.94	542.97	1267.33	634.61	22.30	-1.439	0.000	0.110
162.00	-8.99	-4.64	0.00	-55.26	0.00	55.26	1073.41	536.70	1227.17	614.50	22.91	-1.459	0.000	0.098
164.00	-8.82	-4.60	0.00	-45.98	0.00	45.98	1060.49	530.24	1187.18	594.47	23.52	-1.477	0.000	0.086
164.50	-8.22	-4.31	0.00	-43.68	0.00	43.68	1057.19	528.60	1177.21	589.48	23.68	-1.481	0.000	0.082
165.00	-6.25	-3.18	0.00	-41.52	0.00	41.52	1053.88	526.94	1167.25	584.49	23.83	-1.485	0.000	0.077
166.00	-6.19	-3.16	0.00	-38.34	0.00	38.34	1047.17	523.59	1147.37	574.54	24.14	-1.493	0.000	0.073
168.00	-6.05	-3.13	0.00	-32.02	0.00	32.02	1033.47	516.74	1107.78	554.71	24.77	-1.507	0.000	0.064
169.50	-5.40	-2.70	0.00	-27.32	0.00	27.32	1022.94	511.47	1078.24	539.92	25.25	-1.516	0.000	0.056
170.00	-5.36	-2.69	0.00	-25.97	0.00	25.97	1019.38	509.69	1068.43	535.01	25.41	-1.519	0.000	0.054
172.00	-5.23	-2.66	0.00	-20.59	0.00	20.59	1004.89	502.45	1029.34	515.44	26.05	-1.530	0.000	0.045
174.00	-5.10	-2.63	0.00	-15.27	0.00	15.27	990.02	495.01	990.56	496.02	26.69	-1.539	0.000	0.036
174.50	-4.62	-2.44	0.00	-13.96	0.00	13.96	986.24	493.12	980.92	491.19	26.85	-1.540	0.000	0.033

Calculated Forces

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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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175.00	-2.51	-1.54	0.00	-12.74	0.00	12.74	982.43	491.22	971.29	486.37	27.01	-1.542	0.000	0.029
176.00	-2.45	-1.52	0.00	-11.20	0.00	11.20	974.75	487.37	952.10	476.76	27.33	-1.546	0.000	0.026
178.00	-2.33	-1.49	0.00	-8.16	0.00	8.16	959.09	479.55	914.00	457.68	27.98	-1.551	0.000	0.020
179.50	-1.96	-0.94	0.00	-5.93	0.00	5.93	947.09	473.55	885.67	443.49	28.47	-1.554	0.000	0.015
180.00	-1.93	-0.93	0.00	-5.46	0.00	5.46	943.04	471.52	876.28	438.79	28.63	-1.555	0.000	0.014
182.00	-1.81	-0.90	0.00	-3.60	0.00	3.60	926.61	463.30	838.97	420.11	29.29	-1.558	0.000	0.011
184.00	-1.70	-0.87	0.00	-1.79	0.00	1.79	909.78	454.89	802.09	401.64	29.94	-1.560	0.000	0.006
185.00	0.00	-0.82	0.00	-0.92	0.00	0.92	901.22	450.61	783.83	392.50	30.27	-1.560	0.000	0.002

Final Analysis Summary

Structure: CT00707-S-SBA	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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

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	49.6	0.00	71.96	0.00	0.00	6955.08
0.9D + 1.6W 101 mph Wind	49.6	0.00	53.97	0.00	0.00	6885.93
1.2D + 1.0Di + 1.0Wi 50 mph Wind	13.3	0.00	114.37	0.00	0.00	1893.95
1.2D + 1.0E	2.9	0.00	71.99	0.00	0.00	378.50
0.9D + 1.0E	2.9	0.00	53.99	0.00	0.00	374.29
1.0D + 1.0W 60 mph Wind	10.9	0.00	59.99	0.00	0.00	1526.39

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	-71.96	-49.57	0.00	-6955.0	0.00	-6955.0	6186.26	3093.1	18350.4	9188.88	0.00	0.769
0.9D + 1.6W 101 mph Wind	-53.97	-49.56	0.00	-6885.9	0.00	-6885.9	6186.26	3093.1	18350.4	9188.88	0.00	0.758
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-114.3	-13.33	0.00	-1893.9	0.00	-1893.9	6186.26	3093.1	18350.4	9188.88	0.00	0.225
1.2D + 1.0E	-16.10	-1.90	0.00	-41.22	0.00	-41.22	1132.15	566.08	1428.97	715.55	152.00	0.072
0.9D + 1.0E	-12.07	-1.87	0.00	-40.72	0.00	-40.72	1132.15	566.08	1428.97	715.55	152.00	0.068
1.0D + 1.0W 60 mph Wind	-59.99	-10.93	0.00	-1526.3	0.00	-1526.3	6186.26	3093.1	18350.4	9188.88	0.00	0.176

Additional Steel Summary

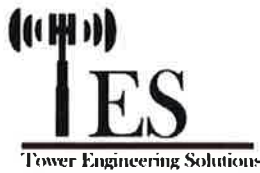
Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination				Upper Termination				Max Member			
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio
145.8	151.8	(3) LNP-LP6X100-G-10CT	641.0	15.38	33.7	114.1	0.0		8	130.0	33.7	4	8	142.93	297.8	292.50	0.489

Base Plate Summary

Structure: CT00707-S-SB	Code: EIA/TIA-222-G	9/30/2016
Site Name: North Easton	Exposure: B	
Height: 185.00 (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:	79.87
Moment (kip-ft):	7275.00	Width (in):	79.62	Number Bolts:	24.00
Axial (kip):	52.00	Style:	Square	Bolt Type:	2.25" 18J
Shear (kip):	52.50	Polygon Sides:	0.00	Bolt Diameter (in):	2.25
Analysis		Clip Length (in):	0.00	Yield (ksi):	75.00
Moment (kip-ft):	6955.08	Effective Len (in):	8.46	Ultimate (ksi):	100.00
Axial (kip):	114.37	Moment (kip-in):	659.34	Arrangement:	Clustered
Shear (kip):	49.57	Allow Stress (ksi):	67.50	Cluster Dist (in):	6.00
		Applied Stress (ksi):	0.00	Start Angle (deg):	45.00
Moment Design %:	95.60	Stress Ratio:	0.57	Compression	
				Force (kip):	178.93
				Allowable (kip):	260.00
				Ratio:	0.70
				Tension	
				Force (kip):	169.39
				Allowable (kip):	260.00
				Ratio:	0.67



Monopole Mat Foundation Design

Date

9/30/2016

Customer Name:	Verizon	EIA/TIA Standard:	EIA-222-G
Site Name:	North Easton	Structure Height (Ft.):	185
Site Nmb:	CT00707-S-SBA	Engineer Name:	J. Tibbetts
Engr. Number:	26560	Engineer Login ID:	IES

Foundation Info Obtained from:

Drawings/Calculations

Structure Type:

Monopole

Analysis or Design?

Analysis

Base Reactions (Factored):

Axial Load (Kips):	72.0	Shear Force (Kips):	49.6
Uplift Force (Kips):	0.0	Moment (Kips-ft):	6955.1

Foundation Geometries:

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	10.0	Depth of Base BG (ft.):	3.5
Pier Height A. G. (ft.):	2.50	Thickness of Pad (ft):	4.00
Length of Pad (ft.):	33	Width of Pad (ft.):	33

Final Length of pad (ft)	33.0	Final width of pad (ft):	33.0
Control Value for Cell D18:	0	Control Value for Cell F18:	0

Material Properties and Reabr Info:

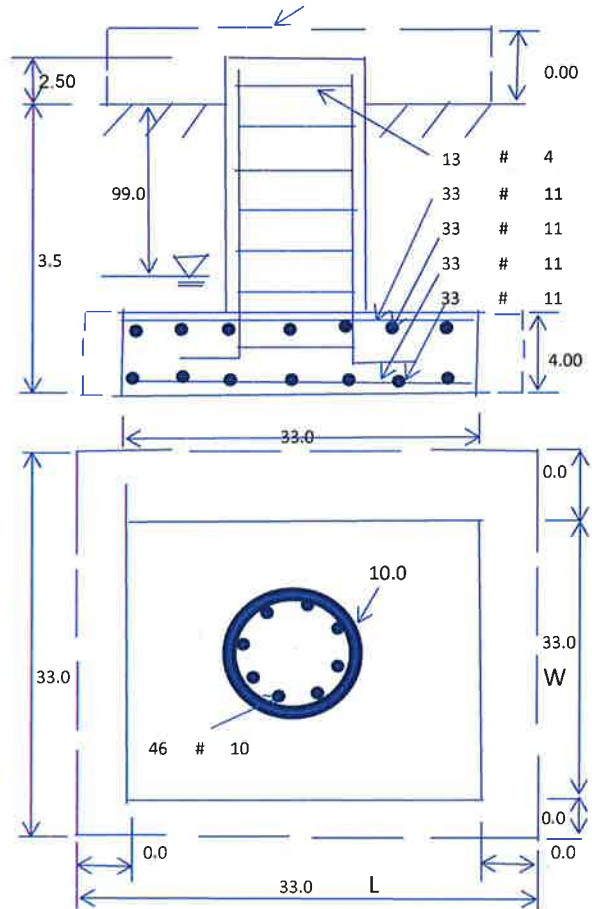
Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	46	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	11	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

Rebar at the bottom of the concrete pad:

Qty. of Rebar in Pad (L):	33	Qty. of Rebar in Pad (W):	33
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Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	33	Qty. of Rebar in Pad (W):	33
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Soil Design Parameters:

Soil Unit Weight (pcf):	110.0	Soil Buoyant Weight:	58.6	Pcf	
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:
Ultimate Bearing Pressure (psf):	80000	Ultimate Skin Friction:	0	Psf	Angle from Botm of Pad:
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Botm of Pad:
Consider soil hori. force for O.T.M.:	No	Reduction factor on the maximum soil bearing pressure:	1.00		

Foundation Analysis and Design:

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	2.02	Total Dry Soil Weight (Kips):	0.22
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	0.22	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	4552.51	Total Dry Concrete Weight (Kips):	682.88
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	682.88	Total Vertical Load on Base (Kips):	755.06

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	2340	<	Allowable Factored Soil Bearing (psf):	60000	0.04	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	11331.3	>	Design Factored Momont (kips-ft):	7278	0.64	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.56					OK!

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):

1.27

Tie / Stirrup Area (sq. in./each):

0.20

Calculated Moment Capacity (Mn,Kips-Ft):

14498.0

>

Design Factored Moment (Mu, Kips-Ft)

7079.2

0.49

OK!

Calculated Shear Capacity (Kips):

1313.2

>

Design Factored Shear (Kips):

49.6

0.04

OK!

Calculated Tension Capacity (Tn, Kips):

3154.7

>

Design Factored Tension (Tu Kips):

0.0

0.00

OK!

Calculated Compression Capacity (Pn, Kips):

14919.2

>

Design Factored Axial Load (Pu Kips):

72.0

0.00

OK!

Moment & Axial Strength Combination(Pu/Pn+Mu/Mn):

0.49

OK!

Check Tie Spacing (Design/Required):

0.5

OK!

Pier Reinforcement Ratio:

0.005

Reinforcement Ratio is too small

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):

1441.7

>

One-Way Factored Shear (L-D. Kips):

345.9

0.24

OK!

One-Way Design Shear Capacity (W-Direction, Kips):

1441.7

>

One-Way Factored Shear (W-D., Kips)

345.9

0.24

OK!

One-Way Design Shear Capacity (Corner-Corner. Kips):

1602.0

>

One-Way Factored Shear (C-C, Kips):

586.3

0.37

OK!

Lower Steel Pad Reinforcement Ratio (L-Direct.):

0.0029

OK!

Lower Steel Pad Reinf. Ratio (W-Direct

0.0029

Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):

9911.1

>

Moment at Bottom (L-Direct. K-Ft):

1350.4

0.14

OK!

Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):

9911.1

>

Moment at Bottom (W-Direct. K-Ft):

1350.4

0.14

OK!

Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):

13879.8

>

Moment at Bottom (C-C Dir. K-Ft):

1909.8

0.14

OK!

Upper Steel Pad Reinforcement Ratio (L-Direct.):

0.0029

OK!

Upper Steel Reinf. Ratio (W-Direct.):

0.0029

Upper Steel Pad Moment Capacity (L-Direction. Kips-ft):

9911.1

>

Moment at the top (L-Dir Kips-Ft):

51.1

0.01

OK!

Upper Steel Pad Moment Capacity (W-Direction. Kips-ft):

9911.1

>

Moment at the top (W-Dir Kips-Ft):

51.1

0.01

OK!

Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):

13879.8

>

Moment at the top (C-C Direc. K-Ft):

792.0

0.06

OK!

ATTACHMENT 4

140.45AC.

177

12
49 AC

Par. 'A'

CP-042
52.95AC

SEE 3784 1/2

Town
DUMP.

Town
of
EASTON

8.5AC
2-A

SEE 3784 1/2

SEE 3784 1/2

197

SEE 3784 1/2

SEE 3784 1/2

SEE 3784 1/2

SEE 3784 1/2

SEE 3784 1/2

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EDEN

EDEN HILL R

STREET

NORTH

NORTH

NORTH

TOWN

PARK

BHC

BHC

BHC

OF
PARK
AVENUE
EASTON
REPPING

LOOK
REAR

TOWN

OF

OF

Brook

Brook

Brook

Brook

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2011.



Easton, CT

Information on the Property Records for the Municipality of Easton was last updated on 12/17/2016.

Property Summary Information

[Parcel Data And Values](#) [Permits](#) [Google Map](#)

Parcel Information

Location:	197 NORTH STREET	Property Use:	Residential	Primary Use:	Residential
Unique ID:	00084500	Map Block Lot:	3784 3785A 2&2A	Acres:	12.20
490 Acres:	0.00	Zone:	R3	District:	
Volume / Page:	0000/0000	Developers Map / Lot:	1434	Census:	1052

Value Information

	Appraised Value	70% Assessed Value
Land	541,675	379,170
Buildings	0	0
Detached Outbuildings	0	0

Appraised Value**70% Assessed Value**

Total

541,675

379,170

Owner's Information**Owner's Data**

EASTON TOWN OF
225 CENTER ROAD
EASTON CT 06612

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