



December 22, 2023

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

Re: Notice of Exempt Modification – Antenna and RRU Swap/Add
Property Address: 66 Wall Street, Hebron, CT 06248
Applicant: AT&T Mobility, LLC

Dear Ms. Bachman:

On behalf of AT&T, please accept this application 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).

AT&T currently maintains a wireless telecommunications facility consisting of three (3) wireless telecommunication antennas at an antenna center line height of 115-foot level on an existing 153-foot flagpole, owned by SBA Communications and the Town of Hebron as the Property Owner, 66 Wall Street Hebron, CT 06248.

AT&T desires to modify its existing telecommunications facility by swapping three (3) antennas, (6) remote radio units and associated lines. The centerline height of said antennas and remote radio units is and will remain at 115' on the existing antenna mount.

Attached is a summary of the planned modifications including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

Please accept this letter pursuant to Regulation of Connecticut State Agencies §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., a copy of this letter is being sent to The Honorable Daniel Larson, Chairman Board of Selectmen & Property Owner 15 Gilead Street Hebron, CT 06248, Andrew Tierney, Town Manager 15 Gilead Street Hebron, CT 06248, Matthew Bordeaux Town Planner 15 Gilead Street Hebron, CT 06248. A copy of this letter is being sent to the tower owner SBA Communications at 8051 Congress Ave Boca Raton, FL 33478.

The following is a list of subsequent decisions by the Connecticut Siting Council:

- **EM-CING-067-190701** – AT&T Mobility, LLC notice of intent to modify an existing telecommunications facility located at 66 Wall Street, Hebron, Connecticut.

The planned modifications to AT&T's facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72(b) (2).

1. The proposed modifications will not result in an increase in the height of the existing tower. AT&T's replacement antennas will be installed at the 115-foot level of the 153-foot flagpole.
2. The proposed modifications will not involve any changes to ground-mounted equipment and, therefore, will not require an extension of the site boundary.
3. The proposed modifications will not increase the noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility 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 worst-case RF emissions calculation for AT&T's modified facility is provided in the RF Emissions Compliance Report, included in Tab 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 AT&T's proposed modifications. (See Structural Analysis Report included in Tab 3).

For the foregoing reasons, AT&T 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,

Carolyn Seeley
Real Estate Specialist
Smartlink on behalf of AT&T
(978) 760-5577
Carolyn.seeley@smartlinkgroup.com

CC w/enclosures:

Daniel Larson, Elected Official & Property Owner
Town of Hebron
15 Gilead Street
Hebron, CT 06248

Andrew Tierney, Town Manager
Town of Hebron
15 Gilead Street
Hebron, CT 06248

Matthew Bordeaux, Town Planner
Town of Hebron
15 Gilead Street
Hebron, CT 06248

SBA - Tower Owner
8051 Congress Ave
Boca Raton, FL 33478



TOWN OF HEBRON

15 Gilead Street, Hebron, CT 06248

TEL (860) 228-5971 FAX (860) 228-5980

CT 4374

Planning/Zoning

Building

Health

Conservation

July 17, 2000

CERTIFIED MAIL

SBA, Inc.
ATT: Jim Smith
80 Eastern Boulevard
Glastonbury, CT 06033

Re: Petition #2000-21, Special Permit Application of SBA, Inc. and Sprint PCS, telecommunication facility, Veterans Memorial Park

Dear Mr. Smith:

Please be advised that at the July 11, 2000 meeting of the Planning and Zoning Commission, the Commission took the following action on the above-referenced application.

Approved, with the following conditions:

1. No antenna(s) shall be located on the outside of the flagpole.
2. After the facility has been operational for 90 days, the applicant shall submit reports of non-ionizing electromagnetic radiation showing compliance with present Federal Communication Commission standards.
3. Lighting for the flag shall be at the minimum level, in consultation with Town staff, in accordance with proper flag etiquette.
4. The flag size shall be determined in consultation with Town staff.
5. Any subsequent co-location shall submit application to the Planning and Zoning Commission.

Please have the plans revised to include the above conditions and forward one set of mylars and three blue-line sets of plans for signature by the Commission. Also, a Special Permit Certification must be filed in the Town Clerk's Office before the approval is effective. We will prepare the Certificate for you. A filing fee will be needed before filing with the Town Clerk.

If you have any questions, please call me.

Very truly yours,

Michael K. O'Leary

Town Planner for the Hebron Planning and Zoning Commission.

MKO/dmg

cc: Petition File #2000-21
Robert E. Lee, Town Manager

APPLICATION FOR BUILDING PERMIT

CT 4374

TOWN OF HEBRON CONNECTICUT

PERMIT NO. 11043

(Application must be typed or printed)

LOCATION OF JOB (NO. & STREET) <u>66 WALL Street</u>		ZONE <u>R1</u>	MAP/PARCEL <u>13/LOT15</u>	SUBDIVISION NAME <u>Veteran's Memorial Park</u>	LOT#
OWNER <u>Town of Hebron</u>	TEL.	ADDRESS (NO., STREET, TOWN, STATE, ZIP)			
APPLICANT <u>SBA, INC & SPRINT PCS</u>	TEL. <u>(860) 659 9101</u>	ADDRESS (NO., STREET, TOWN, STATE, ZIP) <u>80 Eastern Blvd. Glastonbury CT 06033</u>			
BUILDER <u>Westcott Construction Corporation</u>	TEL. <u>(508) 695-3561</u>	ADDRESS (NO., STREET, TOWN, STATE, ZIP) <u>135 E. Washington St. N. Attleboro, MA 02761</u>			
LICENSE OR REGISTRATION # <u>CP 026881</u>	NAME & TEL. # OF PERSON RESPONSIBLE <u>Erik Pearson (860) 659-9101</u>				

<p>SIZE OF BUILDING</p> <p><u>N/A</u></p> <p>STORIES _____ NO. OF FAMILIES _____</p> <p>HEIGHT _____ DEPTH _____ FRONT _____</p> <p>TOTAL FLOOR AREA (NEW) _____ SQ. FT.</p>	<p>DISTANCES FROM LOT LINE</p> <p><u>520 210 140 630</u></p> <p>FRONT L. SIDE R. SIDE REAR</p>	<p>OTHER REQUIREMENTS</p> <p>ZONING PERMIT _____ REQD. ATTACHED _____</p> <p>PLOT PLAN _____ REQD. ATTACHED _____</p> <p>SEPTIC PERMIT _____ REQD. ATTACHED _____</p>																																	
<p>TYPE OF WORK BEING DONE</p> <p><input checked="" type="checkbox"/> ORIG. CONSTRUCTION <input type="checkbox"/> REPAIR</p> <p><input type="checkbox"/> ALTERATION <input type="checkbox"/> DEMOLITION</p> <p><input type="checkbox"/> ADDITION _____</p>	<p>PROPOSED USE</p> <p><input type="checkbox"/> NEW HOME (Single Family)</p> <p><input type="checkbox"/> MULTI FAMILY _____</p> <p># OF BEDROOMS _____</p> <p>WATER SUPPLY _____</p> <p>SEPTIC OR SEWER _____</p>	<p>APPROVALS</p> <p>ZONING _____ FIRE MARSHALL _____</p> <p>WETLAND _____ PLANNER _____</p> <p>SANITATION _____ WPCA _____</p>																																	
<p>CONSTRUCTION VALUE</p> <p>ESTIMATED <u>\$10,000.00</u></p> <p>ACTUAL _____</p>	<p><input type="checkbox"/> ADDITION _____</p> <p><input type="checkbox"/> GARAGE _____</p> <p><input type="checkbox"/> DECK/PORCH _____</p> <p><input type="checkbox"/> SHED _____</p> <p><input type="checkbox"/> POOL _____</p> <p><input type="checkbox"/> COMMERCIAL/PUBLIC _____</p> <p><input type="checkbox"/> OTHER _____</p>	<p>FEE COVERS</p> <table border="0"> <tr> <td></td> <td>VALUE</td> <td>FEE</td> </tr> <tr> <td><input checked="" type="checkbox"/> CONSTRUCTION</td> <td><u>80,000</u></td> <td><u>710-</u></td> </tr> <tr> <td><input type="checkbox"/> PLUMBING</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> HEATING</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input checked="" type="checkbox"/> ELECTRICAL</td> <td><u>30,000</u></td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> SEPTIC</td> <td>_____</td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> ZONING</td> <td><u>\$110,000</u></td> <td>_____</td> </tr> <tr> <td><input type="checkbox"/> OTHER</td> <td><u>None</u></td> <td><u>17.60</u></td> </tr> <tr> <td>TOTAL</td> <td></td> <td><u>\$727.60</u></td> </tr> <tr> <td>LESS Fee of Completion</td> <td></td> <td><u>10-</u></td> </tr> <tr> <td>CHECK # _____</td> <td>DATE PAID _____</td> <td><u>\$ 737.60</u></td> </tr> </table>		VALUE	FEE	<input checked="" type="checkbox"/> CONSTRUCTION	<u>80,000</u>	<u>710-</u>	<input type="checkbox"/> PLUMBING	_____	_____	<input type="checkbox"/> HEATING	_____	_____	<input checked="" type="checkbox"/> ELECTRICAL	<u>30,000</u>	_____	<input type="checkbox"/> SEPTIC	_____	_____	<input type="checkbox"/> ZONING	<u>\$110,000</u>	_____	<input type="checkbox"/> OTHER	<u>None</u>	<u>17.60</u>	TOTAL		<u>\$727.60</u>	LESS Fee of Completion		<u>10-</u>	CHECK # _____	DATE PAID _____	<u>\$ 737.60</u>
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DESCRIPTION OF WORK/REMARKS:
Installation of a 150' communication tower/Flag pole, enclosed with in a 40' x 60' fence enclosure. Installation of Sprint PCS radio equipment frame and Radio equipment cabinets. Installation of Sprint PCS antennas on the flag pole @ 145' AGL.

PROOF OF WORKERS COMPENSATION COVERAGE MUST ACCOMPANY THIS APPLICATION

All work covered by this application has been authorized by the (owner) or (agent) of this property and will be done according to state regulations. This permit shall lapse if work does not commence within 6 months.

APPROVED DISAPPROVED

2/4/2000
Date

Erik Pearson
Owner/Agent Signature

By Robert E. [Signature]
12/22/00 Date
[Signature] Building Official

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 2021.



Information on the Property Records for the Municipality of Hebron was last updated on 9/1/2022.



Parcel Information

Location:	66 WALL ST	Property Use:	Entertainment	Primary Use:	Pavilion
Unique ID:	2347	Map Block Lot:	13-15	Acres:	15.6700
490 Acres:	0.00	Zone:	R-1	Volume / Page:	0141/0673
Developers Map / Lot:		Census:	5261		

Value Information

	Appraised Value	Assessed Value
Land	663,400	464,380
Buildings	97,500	68,250
Detached Outbuildings	78,100	54,670

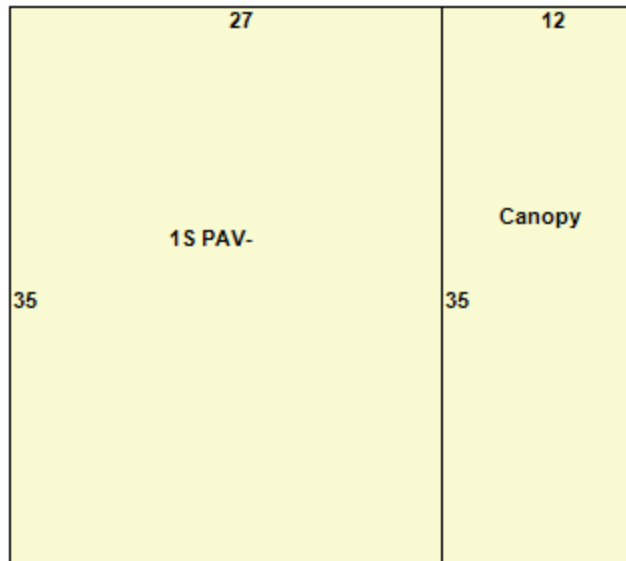
	Appraised Value	Assessed Value
Total	839,000	587,300

Owner's Information

Owner's Data

HEBRON TOWN OF
 15 GILEAD ST
 HEBRON, CT 06248-1501

Building 1



Category:	Entertainment	Use:	Pavilion	GLA:	945
Stories:	1.00	Construction:	Masonry	Year Built:	2005
Heating:	None	Fuel:	None	Cooling Percent:	0
Siding:		Roof Material:	Arch Shingles	Beds/Units:	0

Special Features

Attached Components

Type:	Year Built:	Area:
Canopy	2005	420

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Basketball Court	2000	0.00	0.00	1,800
4 Ft Chain Fence	2000	0.00	0.00	1,000
Asphalt Paving	2000	0.00	0.00	22,500
Light Poles	2000	0.00	0.00	4
Open Porch	2017	10.00	8.00	80
Frame Shed	2000	0.00	0.00	128
Lean To Shed	2017	30.00	8.00	240
Lean To Shed	2017	30.00	8.00	240

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
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Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
HEBRON TOWN OF	0141	0673	05/01/1990		\$340,000

Building Permits

Permit Number	Permit Type	Date Opened	Reason
22-14	Other	06/09/2022	SEE PERMIT
22-2	Shed	03/23/2022	180 SQ FT SHED
22-6	Comm Renovations	02/01/2022	T-MOBILE CABINETS (2)
2021-0298	Comm Renovations	06/21/2021	CELL TOWER ANTENNA UPGRADES
2021-0196	Other	04/29/2021	SCOREBOARD INSTALLATION- RELOCATING ON SAME BASEBALL FIELD
2020-0241	Generator	06/30/2020	GENERATOR ON 4 X 10 CONCRETE PAD
2020-0233	Electrical	06/18/2020	WIRING FOR AUTOMATIC GENERATOR
27232	Comm Renovations	09/18/2018	ANTENNA WORK
27149	Other	08/07/2018	NEW SMOOTH ROUND SHROUDS; REPLACE TOP PLATE & FLAG TRUCK AND BALL
27106	Electrical	06/26/2018	OUTLETS
27020	Signs	04/27/2018	NEW SCORE BOARD FOR BASEBALL FIELD
26743	Outbuilding/Yard Item	09/29/2017	DUGOUTS FOR BASEBALL FIELD & SCOREBOARD
26529	Electrical	05/03/2017	INSTALL 2 HAND DRYERS
26176	Outbuilding/Yard Item	09/16/2016	DUGOUT FOR BASEBALL FIELDS
14-254B	Electrical	04/17/2014	
14-57E	Other	02/18/2014	
14-42E	Electrical	12/10/2013	CO ISSUED 3/24/14 #14-135CA
21091	Shed	05/30/2013	dug outs - baseball field; CO ISSUED 4/7/14
12-20848	Electrical	06/20/2012	

Permit Number	Permit Type	Date Opened	Reason
12-20830	Electrical	06/06/2012	
11761	Mechanical	07/25/2002	

Information Published With Permission From The Assessor



66 WALL STREET

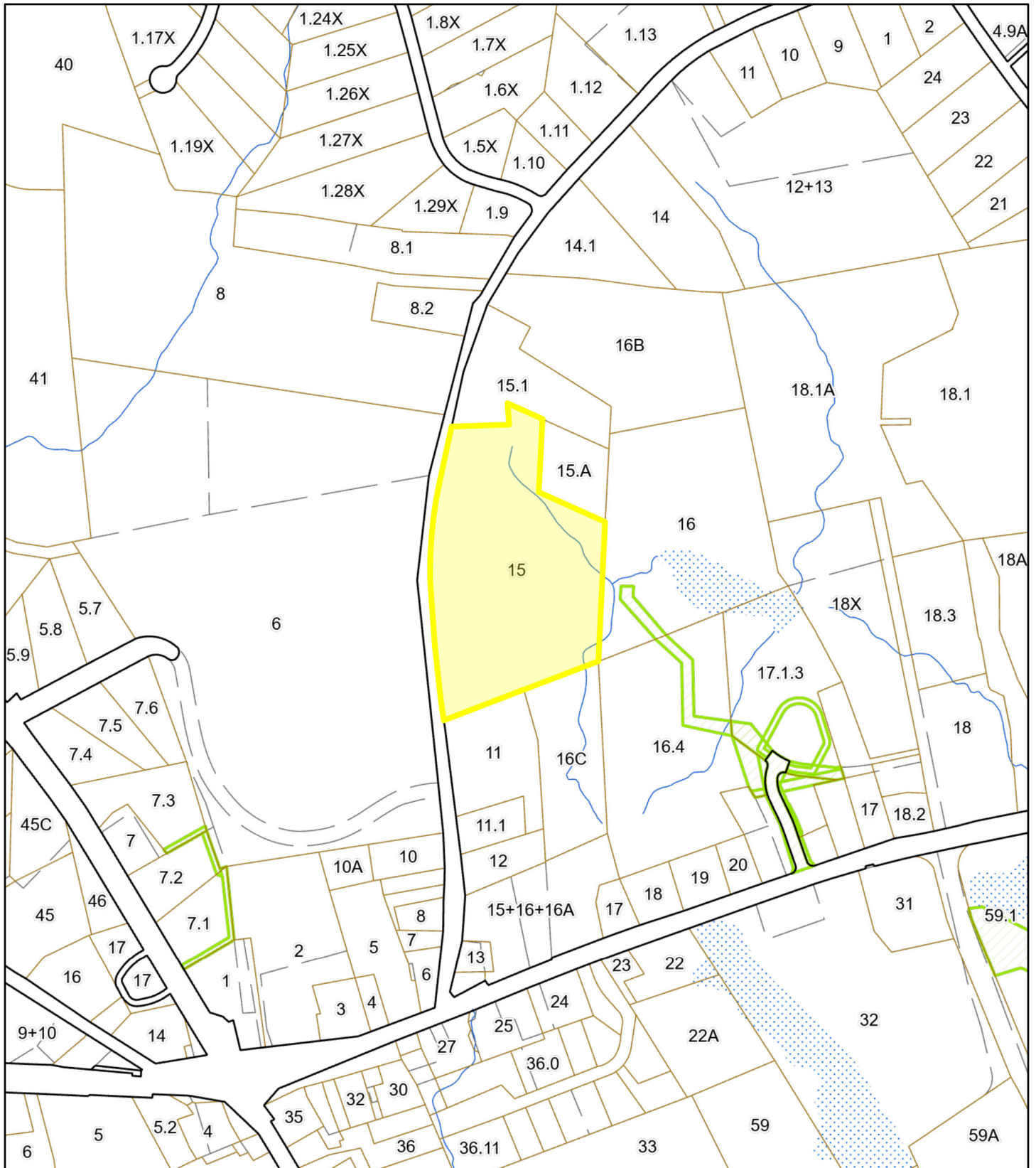
Hebron, CT

1 inch = 562 Feet



www.cai-tech.com

September 2, 2022



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Structural Analysis Report

Existing 150 ft Valmont Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT04374-S

Customer Site Name: Central Hebron

Carrier Name: AT&T (App#: 222976-3)

Carrier Site ID / Name: CTL05865 / HEBRON EAST

Site Location: 66 Wall Street

Hebron, Connecticut

Tolland County

Latitude: 41.664631

Longitude: -72.361325

Exp. 01/31/2024



07/05/2023

Analysis Result:

Max Structural Usage: 93.9% [Pass]

Max Foundation Usage: 92.0% [Pass]

Report Prepared By: Tawfeeq Alajaj

Introduction

The purpose of this report is to summarize the analysis results on the 150 ft Valmont Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Tower Drawings	Valmont, Eng. File # A-117319, Dated 07/19/2000
Foundation Drawing	Valmont, Eng. File # A-117319, Dated 07/19/2000
Geotechnical Report	FDH, Project # 1201291EG1 Dated 02/14/2012
Modification Drawings	TES Job # 48686
Mount Analysis	N/A

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H. 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:	125.0 mph (3-Sec. Gust) (Ultimate wind speed)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Service Load Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_S = 0.2, S_1 = 0.055$

This structural analysis is based upon the tower being classified as a Risk Category II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

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	145.0	3	Commscope FFVV-65B-R3 Panel	Inside 36" Canister from 140ft. to 150ft.	(12) 1 5/8"	Dish Wireless
2		6	Commscope CDX623T-DS-T Diplexers			
3	135.0	3	Andrew - SBNHH-1D65A - Panel	Inside 36" Canister from 130ft. to 140ft.	(2) 1 5/8" Hybriflex (12) 7/8"	Verizon
4		6	RFS Celwave - FDL85002/1C-3L			
5		2	RFS Celwave - DB-T1-6Z-8AB-OZ			
6	127.0	3	Rosenberger D2WC-21 (2LB+4MB) (HEX) Panel	Inside 36" Canister from 120ft. to 130ft.	(12) 7/8" (3) 1.99" 6x24 Hybrid	T-Mobile Sprint
7		6	Commscope CBC426T-DS-43 Diplexers			
8		3	Andrew Smart Bias-T/ATSBT TOP-FM RET			
12	115.0	3	KMS - AM-X-CD-16-65-OOT - Panel	Inside 36" Canister from 110ft. to 120ft	(6) 1 5/8"	AT&T
13		6	Cci DTMAPB7819VG12A TMA			
11	75.0	1	GPS	Direct	(1) 1/2"	T-Mobile Sprint

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
12	115.0	3	Kathrein - 800372965 - Panel	Inside 36" Canister from 110ft. to 120ft	(12) 7/8"	AT&T
13		6	Kaleus TMA2093F02V1-1D			

See the attached coax layout for the line placement considered in the analysis.

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	Flange connection
Max. Usage:	93.9%	77.9%	50.9%	91.9%
Pass/Fail	Pass	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	1025.8	11.2	25.6

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.

Service Load Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.2149 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 TIA-222 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 structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. 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 ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. 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.
5. 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.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

Usage Diagram - Max Ratio 93.89% at 112.0ft

Structure: CT04374-S-SBA
Site Name: Central Hebron
Height: 150.00 (ft)
Base Elev: 0.000 (ft)

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

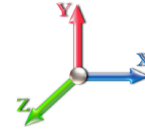
7/5/2023



Page: 1

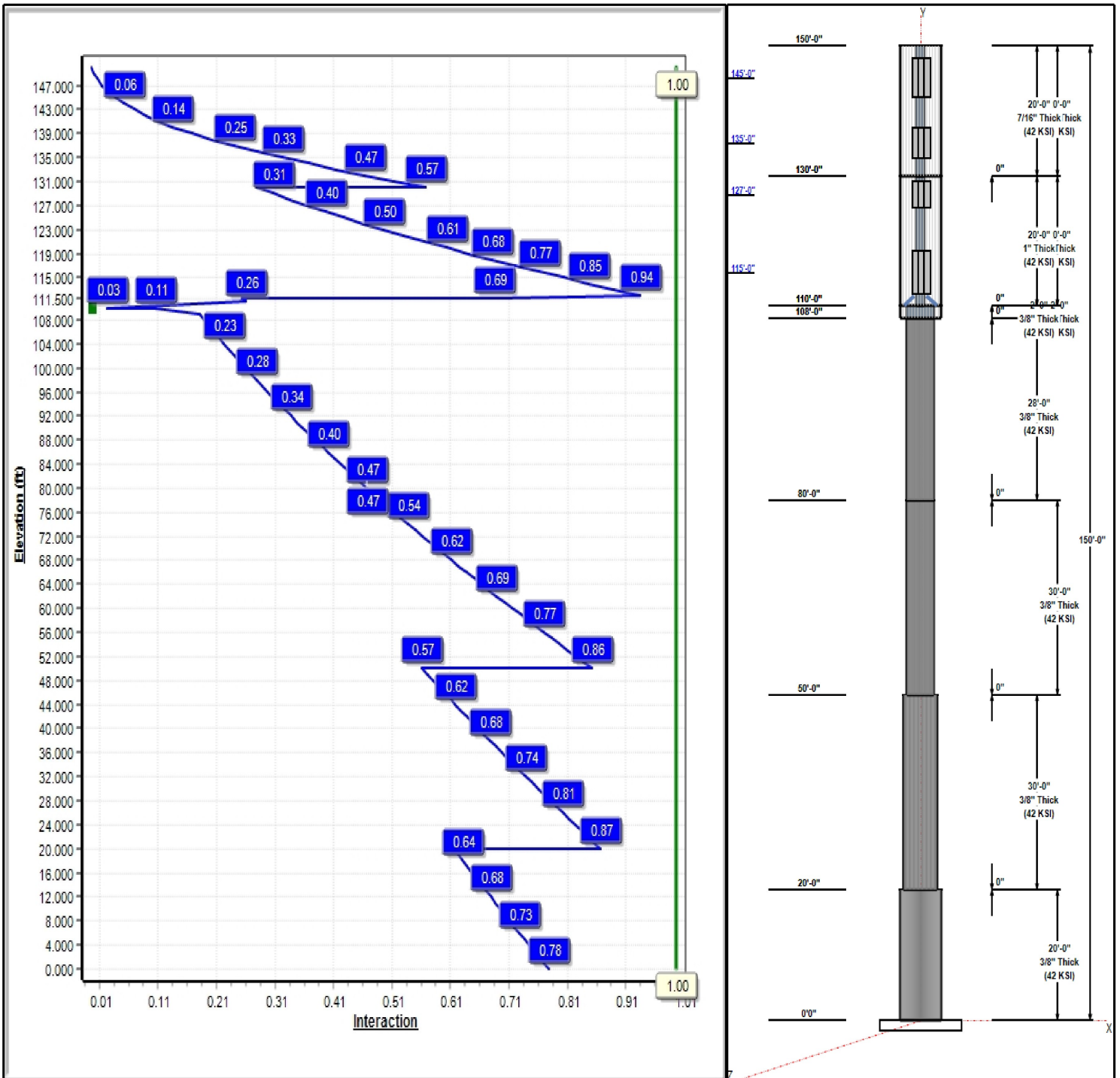
Dead Load Factor: 1.20
Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 125 mph Wind



Iterations: 43

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Structure: CT04374-S-SBA

Type: Custom
Site Name: Central Hebron
Height: 150.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: Round
Taper: 0.00000

7/5/2023

Page: 2



Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	20.00	36.00	36.00	0.375		0.00000	42
2	30.00	30.00	30.00	0.375	Butt	0.00000	42
3	30.00	24.00	24.00	0.375	Butt	0.00000	42
4	28.00	24.00	24.00	0.375	Butt	0.00000	42
5	2.00	24.00	24.00	0.375	Butt	0.00000	42
6	20.00	6.75	6.75	1.000	Butt	0.00000	42
7	20.00	6.63	6.63	0.432	Butt	0.00000	42

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
150.00	150.50	1	Truck Ball	
150.00	150.00	1	36" Canister Weight	
145.00	145.00	3	FFVV-65B-R3	Dish Wireless
145.00	145.00	6	CDX623T-DS	Dish Wireless
140.00	140.00	1	36" Canister Weight	
140.00	140.00	1	Flag	
135.00	135.00	3	SBNHH-1D65A	Verizon
135.00	135.00	6	FDL85002/1C-3L	Verizon
135.00	135.00	2	DB-T1-6Z-8AB-OZ	Verizon
135.00	135.00	1	Flush Mount	Verizon
130.00	130.00	1	36" Canister Weight	
127.00	127.00	3	D2WC-21 (2LB+4MB)	T-Mobile Sprint
127.00	127.00	6	CBC426T-DS-43	T-Mobile Sprint
127.00	127.00	3	ATSBT-TOP-FM	T-Mobile Sprint
127.00	127.00	1	Flush Mount	T-Mobile Sprint
120.00	120.00	1	36" Canister Weight	
115.00	115.00	3	800372965	AT&T
115.00	115.00	6	Kaleus	AT&T
115.00	115.00	1	Flush Mount	AT&T
110.00	110.00	1	36" Canister Weight	
108.00	108.00	1	36" Canister Weight	
75.00	75.00	1	GPS	T-Mobile Sprint

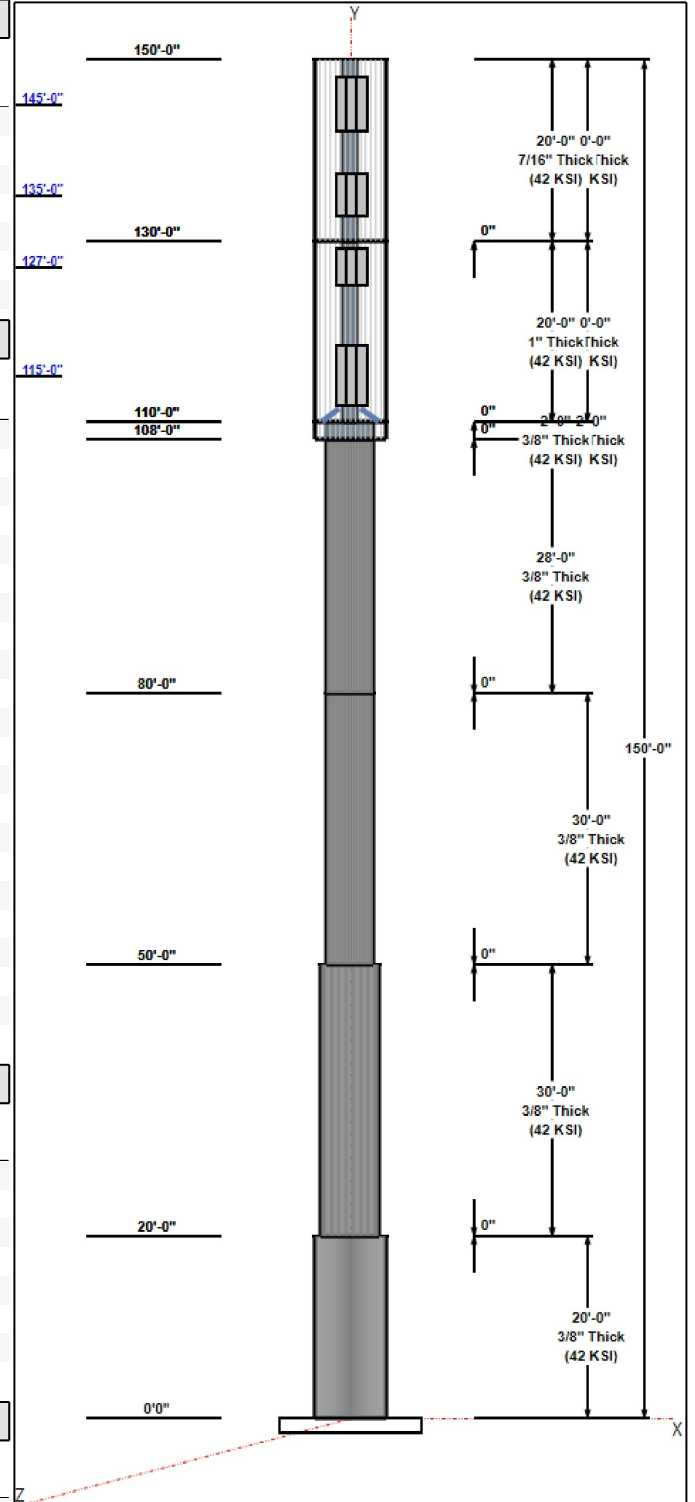
Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	145.00	Inside	1 5/8" Coax	Dish Wireless
0.00	135.00	Inside	1 5/8" Hybrid	Verizon
0.00	135.00	Inside	7/8" Coax	Verizon
0.00	127.00	Inside	1.99" 6x24 Hybrid	T-Mobile Sprint
0.00	127.00	Inside	7/8" Coax	T-Mobile Sprint
0.00	115.00	Inside	7/8" Coax	AT&T
0.00	75.00	Inside	1/2" Coax	T-Mobile Sprint
17.00	23.00	Outside	1" Reinforcing plate	

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
28	1.0" F1554 105	105.0	Radial

Base Plate



Structure: CT04374-S-SBA

Type: Custom
Site Name: Central Hebron
Height: 150.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: Round
Taper: 0.00000

7/5/2023

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Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.2500	42.4	36.0	Round

Reactions

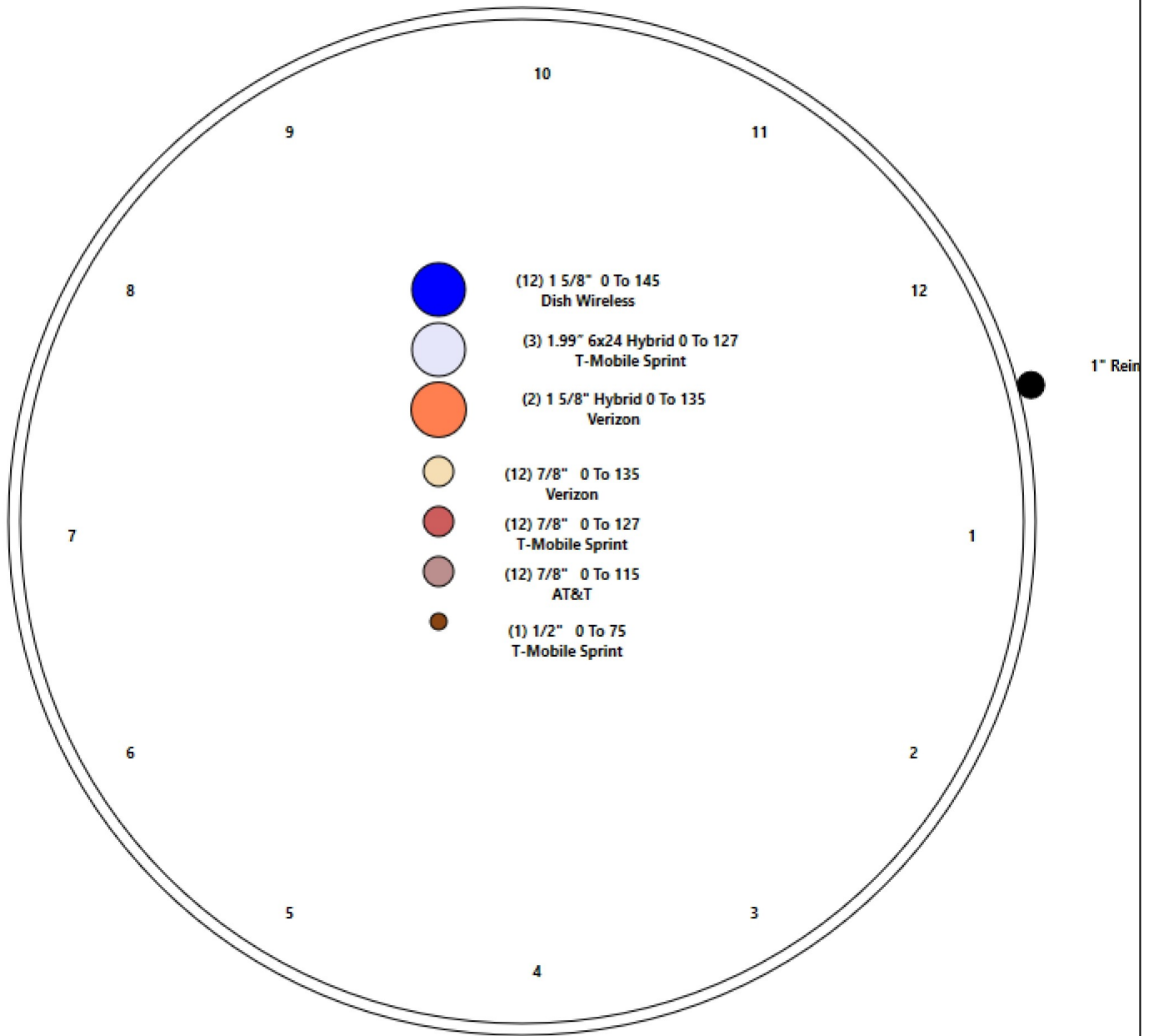
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 125 mph Wind	1025.8	11.2	24.7
0.9D + 1.0W 125 mph Wind	1007.7	11.2	18.5
1.2D + 1.0Di + 1.0Wi 50 mph Wind	485.6	4.7	32.1
1.2D + 1.0Ev + 1.0Eh	33.3	0.3	25.6
0.9D + 1.0Ev + 1.0Eh	32.9	0.3	19.4
1.0D + 1.0W 60 mph Wind	209.2	2.3	20.6

Structure: CT04374-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Central Hebron
Height: 150.00 (ft)

7/5/2023

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Shaft Properties

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	R	20.000	0.3750	42		0.00	2,856
2	R	30.000	0.3750	42	Flange	0.00	3,563
3	R	30.000	0.3750	42	Flange	0.00	2,841
4	R	28.000	0.3750	42	Flange	0.00	2,652
5	R	2.000	0.3750	42	Flange	0.00	189
6	R	20.000	1.0000	42	Flange	0.00	1,229
7	R	20.000	0.4320	42	Flange	0.00	572
Total Shaft Weight:							13,903

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	Canister Diam (in)
1	36.00	0.00	41.97	6663.29	0.00	96.00	36.00	20.00	41.97	6663.29	0.00	96.00	0.000000	0.00
2	30.00	20.00	34.90	3831.77	0.00	80.00	30.00	50.00	34.90	3831.77	0.00	80.00	0.000000	0.00
3	24.00	50.00	27.83	1943.30	0.00	64.00	24.00	80.00	27.83	1943.30	0.00	64.00	0.000000	0.00
4	24.00	80.00	27.83	1943.30	0.00	64.00	24.00	108.00	27.83	1943.30	0.00	64.00	0.000000	0.00
5	24.00	108.0	27.83	1943.30	0.00	64.00	24.00	110.00	27.83	1943.30	0.00	64.00	0.000000	36.00
6	6.75	110.0	18.06	74.71	0.00	6.75	6.75	130.00	18.06	74.71	0.00	6.75	0.000000	36.00
7	6.63	130.0	8.40	40.33	0.00	15.34	6.63	150.00	8.40	40.33	0.00	15.34	0.000000	36.00

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	┌ Intermediate Connectors ┐	┌ Termination Connectors ┐	Spacing (in)	Description	Spacing (in)	Lower Qty	Upper Qty
							Description	Description					
110.0	111.5	3	PLT 5"x3/4" STFNR	36	48	0.00	┌	┐	0.00	5/8" Hollo Bolt	0.00		

Load Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	150.00	Truck Ball	1	5.00	1.41	1.00	5.23	1.476	1.00	0.00	0.50
2	150.00	36" Canister Weight	1	64.57	0.00	1.00	90.86	0.000	1.00	0.00	0.00
3	145.00	FFVV-65B-R3	3	43.80	0.00	0.00	168.46	8.847	0.00	0.00	0.00
4	145.00	CDX623T-DS	6	10.10	0.00	0.00	21.76	0.554	0.00	0.00	0.00
5	140.00	36" Canister Weight	1	129.14	0.00	1.00	181.37	0.000	1.00	0.00	0.00
6	140.00	Flag	1	25.00	6.89	1.00	26.16	7.208	1.00	0.00	0.00
7	135.00	SBNHH-1D65A	3	33.50	0.00	0.00	130.89	6.577	0.00	0.00	0.00
8	135.00	FDL85002/1C-3L	6	7.00	0.00	0.00	14.94	0.000	0.00	0.00	0.00
9	135.00	DB-T1-6Z-8AB-OZ	2	18.90	0.00	0.00	108.06	5.363	0.00	0.00	0.00
10	135.00	Flush Mount	1	25.00	0.00	0.00	38.82	0.000	0.00	0.00	0.00
11	130.00	36" Canister Weight	1	129.14	0.00	1.00	180.98	0.000	1.00	0.00	0.00
12	127.00	D2WC-21 (2LB+4MB) (HEX)	3	30.90	0.00	0.00	116.53	5.697	0.00	0.00	0.00
13	127.00	CBC426T-DS-43	6	7.30	0.00	0.00	18.18	0.000	0.00	0.00	0.00
14	127.00	ATSBT-TOP-FM	3	1.80	0.00	0.00	5.63	0.000	0.00	0.00	0.00
15	127.00	Flush Mount	1	25.00	0.00	0.00	38.73	0.000	0.00	0.00	0.00
16	120.00	36" Canister Weight	1	129.14	0.00	1.00	180.57	0.000	1.00	0.00	0.00
17	115.00	800372965	3	74.50	0.00	0.00	220.93	11.569	0.00	0.00	0.00
18	115.00	Kaleus TMA2093F02V1-1D	6	22.80	0.00	0.00	38.83	0.000	0.00	0.00	0.00
19	115.00	Flush Mount	1	25.00	0.00	0.00	38.60	0.000	0.00	0.00	0.00
20	110.00	36" Canister Weight	1	77.48	0.00	1.00	108.07	0.000	1.00	0.00	0.00
21	108.00	36" Canister Weight	1	12.91	0.00	1.00	13.49	0.000	1.00	0.00	0.00
22	75.00	GPS	1	10.00	1.00	1.00	28.24	1.443	1.00	0.00	0.00
Totals:			53	1,531.88			3,636.78				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	145.00	(12) 1 5/8" Coax	0.00	Inside
0.00	135.00	(2) 1 5/8" Hybrid	0.00	Inside
0.00	135.00	(12) 7/8" Coax	0.00	Inside
0.00	127.00	(3) 1.99" 6x24 Hybrid	0.00	Inside
0.00	127.00	(12) 7/8" Coax	0.00	Inside
0.00	115.00	(12) 7/8" Coax	0.00	Inside
0.00	75.00	(1) 1/2" Coax	0.00	Inside
17.00	23.00	(1) 1" Reinforcing plate	1.00	Outside

Shaft Section Properties

Structure: CT04374-S-SBA

Code: TIA-222-H

7/5/2023

Site Name: Central Hebron

Exposure: C

Height: 150.00 (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: 1 (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		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	0.0				
1.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
2.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
3.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
4.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
5.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
6.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
7.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
8.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
9.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
10.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
11.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
12.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
13.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
14.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
15.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
16.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
17.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
18.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
19.00		0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
20.00	Top - Section 1	0.3750	36.000	41.970	6663.3	0.00	96.00	42	39	142.8				
20.00	Bot - Section 2	0.3750	30.000	34.901	3831.8	0.00	96.00	42	42					
21.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
22.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
23.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
24.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
25.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
26.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
27.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
28.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
29.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
30.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
31.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
32.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
33.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
34.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
35.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
36.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
37.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
38.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
39.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
40.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
41.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
42.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
43.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
44.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
45.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
46.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
47.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
48.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				

Increment Length: 1 (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)
49.00		0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
50.00	Top - Section 2	0.3750	30.000	34.901	3831.8	0.00	80.00	42	42	118.8				
50.00	Bot - Section 3	0.3750	24.000	27.833	1943.3	0.00	80.00	42	42					
51.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
52.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
53.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
54.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
55.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
56.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
57.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
58.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
59.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
60.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
61.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
62.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
63.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
64.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
65.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
66.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
67.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
68.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
69.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
70.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
71.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
72.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
73.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
74.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
75.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
76.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
77.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
78.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
79.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
80.00	Top - Section 3	0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
80.00	Bot - Section 4	0.3750	24.000	27.833	1943.3	0.00	64.00	42	42					
81.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
82.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
83.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
84.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
85.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
86.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
87.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
88.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
89.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
90.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
91.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
92.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
93.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
94.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
95.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
96.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
97.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
98.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
99.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
100.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
101.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
102.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
103.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
104.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
105.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
106.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				

Increment Length: 1 (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)
107.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
108.00	Top - Section 4	0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
108.00	Bot - Section 5	0.3750	24.000	27.833	1943.3	0.00	64.00	42	42					
109.00		0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7				
110.00	Top - Section 5 RB1	0.3750	24.000	27.833	1943.3	0.00	64.00	42	42	94.7	11.25	1194.6	1194.6	38.3
110.00	Bot - Section 6	1.0000	6.750	18.064	74.7	0.00	24.00	42	42					
111.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5	11.25	206.1	206.1	38.3
111.50	RT1	1.0000	6.750	18.064	74.7	0.00	6.75	42	42	30.7	11.25	206.1	206.1	19.1
112.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	30.7				
113.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
114.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
115.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
116.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
117.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
118.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
119.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
120.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
121.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
122.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
123.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
124.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
125.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
126.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
127.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
128.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
129.00		1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
130.00	Top - Section 6	1.0000	6.750	18.064	74.7	0.00	6.75	42	42	61.5				
130.00	Bot - Section 7	0.4320	6.625	8.405	40.3	0.00	15.63	42	42					
131.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
132.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
133.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
134.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
135.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
136.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
137.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
138.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
139.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
140.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
141.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
142.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
143.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
144.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
145.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
146.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
147.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
148.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
149.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
150.00		0.4320	6.625	8.405	40.3	0.00	15.34	42	42	28.6				
Total Weight										13902.9				
											95.7			

Wind Loading - Shaft

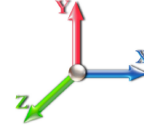
Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 43

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	0.85	31.628	34.79	342.12	0.600	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
2.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
3.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
4.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
5.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
6.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
7.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
8.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
9.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
10.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
11.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
12.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
13.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
14.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
15.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	171.4
16.00		1.00	0.86	32.018	35.22	344.22	0.600	0.000	1.00	3.000	1.80	63.4	0.0	171.4
17.00		1.00	0.87	32.429	35.67	346.43	0.600	0.000	1.00	3.000	1.80	64.2	0.0	171.4
18.00		1.00	0.88	32.822	36.10	348.52	0.600	0.000	1.00	3.000	1.80	65.0	0.0	171.4
19.00		1.00	0.89	33.198	36.52	350.50	0.600	0.000	1.00	3.000	1.80	65.7	0.0	171.4
20.00	Top - Section 1	1.00	0.90	33.558	36.91	352.40	0.600	0.000	1.00	3.000	1.80	66.4	0.0	171.4
21.00		1.00	0.91	33.905	37.30	295.18	0.600	0.000	1.00	2.500	1.50	55.9	0.0	142.5
22.00		1.00	0.92	34.238	37.66	296.63	0.600	0.000	1.00	2.500	1.50	56.5	0.0	142.5
23.00		1.00	0.93	34.560	38.02	298.02	0.600	0.000	1.00	2.500	1.50	57.0	0.0	142.5
24.00		1.00	0.94	34.871	38.36	299.36	0.600	0.000	1.00	2.500	1.50	57.5	0.0	142.5
25.00		1.00	0.95	35.172	38.69	300.65	0.600	0.000	1.00	2.500	1.50	58.0	0.0	142.5
26.00		1.00	0.95	35.464	39.01	301.89	0.600	0.000	1.00	2.500	1.50	58.5	0.0	142.5
27.00		1.00	0.96	35.747	39.32	303.09	0.600	0.000	1.00	2.500	1.50	59.0	0.0	142.5
28.00		1.00	0.97	36.022	39.62	304.26	0.600	0.000	1.00	2.500	1.50	59.4	0.0	142.5
29.00		1.00	0.98	36.289	39.92	305.38	0.600	0.000	1.00	2.500	1.50	59.9	0.0	142.5
30.00		1.00	0.98	36.549	40.20	306.47	0.600	0.000	1.00	2.500	1.50	60.3	0.0	142.5
31.00		1.00	0.99	36.802	40.48	307.53	0.600	0.000	1.00	2.500	1.50	60.7	0.0	142.5
32.00		1.00	1.00	37.049	40.75	308.56	0.600	0.000	1.00	2.500	1.50	61.1	0.0	142.5
33.00		1.00	1.00	37.289	41.02	309.56	0.600	0.000	1.00	2.500	1.50	61.5	0.0	142.5
34.00		1.00	1.01	37.524	41.28	310.54	0.600	0.000	1.00	2.500	1.50	61.9	0.0	142.5
35.00		1.00	1.01	37.754	41.53	311.49	0.600	0.000	1.00	2.500	1.50	62.3	0.0	142.5
36.00		1.00	1.02	37.979	41.78	312.41	0.600	0.000	1.00	2.500	1.50	62.7	0.0	142.5
37.00		1.00	1.03	38.198	42.02	313.31	0.600	0.000	1.00	2.500	1.50	63.0	0.0	142.5
38.00		1.00	1.03	38.413	42.25	314.20	0.600	0.000	1.00	2.500	1.50	63.4	0.0	142.5
39.00		1.00	1.04	38.624	42.49	315.06	0.600	0.000	1.00	2.500	1.50	63.7	0.0	142.5
40.00		1.00	1.04	38.831	42.71	315.90	0.600	0.000	1.00	2.500	1.50	64.1	0.0	142.5
41.00		1.00	1.05	39.033	42.94	316.72	0.600	0.000	1.00	2.500	1.50	64.4	0.0	142.5
42.00		1.00	1.05	39.231	43.15	317.52	0.600	0.000	1.00	2.500	1.50	64.7	0.0	142.5
43.00		1.00	1.06	39.426	43.37	318.31	0.600	0.000	1.00	2.500	1.50	65.1	0.0	142.5
44.00		1.00	1.06	39.618	43.58	319.08	0.600	0.000	1.00	2.500	1.50	65.4	0.0	142.5
45.00		1.00	1.07	39.805	43.79	319.84	0.600	0.000	1.00	2.500	1.50	65.7	0.0	142.5
46.00		1.00	1.07	39.990	43.99	320.58	0.600	0.000	1.00	2.500	1.50	66.0	0.0	142.5

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



47.00	1.00	1.08	40.172	44.19	321.30	0.600	0.000	1.00	2.500	1.50	66.3	0.0	142.5	
48.00	1.00	1.08	40.350	44.38	322.02	0.600	0.000	1.00	2.500	1.50	66.6	0.0	142.5	
49.00	1.00	1.09	40.526	44.58	322.72	0.600	0.000	1.00	2.500	1.50	66.9	0.0	142.5	
50.00	Top - Section 2	1.00	1.09	40.698	44.77	323.40	0.600	0.000	1.00	2.500	1.50	67.2	0.0	142.5
51.00	1.00	1.10	40.868	44.96	259.26	0.600	0.000	1.00	2.000	1.20	53.9	0.0	113.6	
52.00	1.00	1.10	41.036	45.14	259.79	0.600	0.000	1.00	2.000	1.20	54.2	0.0	113.6	
53.00	1.00	1.11	41.201	45.32	260.32	0.600	0.000	1.00	2.000	1.20	54.4	0.0	113.6	
54.00	1.00	1.11	41.363	45.50	260.83	0.600	0.000	1.00	2.000	1.20	54.6	0.0	113.6	
55.00	1.00	1.12	41.523	45.68	261.33	0.600	0.000	1.00	2.000	1.20	54.8	0.0	113.6	
56.00	1.00	1.12	41.681	45.85	261.83	0.600	0.000	1.00	2.000	1.20	55.0	0.0	113.6	
57.00	1.00	1.12	41.837	46.02	262.32	0.600	0.000	1.00	2.000	1.20	55.2	0.0	113.6	
58.00	1.00	1.13	41.990	46.19	262.80	0.600	0.000	1.00	2.000	1.20	55.4	0.0	113.6	
59.00	1.00	1.13	42.141	46.36	263.27	0.600	0.000	1.00	2.000	1.20	55.6	0.0	113.6	
60.00	1.00	1.14	42.291	46.52	263.74	0.600	0.000	1.00	2.000	1.20	55.8	0.0	113.6	
61.00	1.00	1.14	42.438	46.68	264.20	0.600	0.000	1.00	2.000	1.20	56.0	0.0	113.6	
62.00	1.00	1.14	42.584	46.84	264.65	0.600	0.000	1.00	2.000	1.20	56.2	0.0	113.6	
63.00	1.00	1.15	42.727	47.00	265.09	0.600	0.000	1.00	2.000	1.20	56.4	0.0	113.6	
64.00	1.00	1.15	42.869	47.16	265.53	0.600	0.000	1.00	2.000	1.20	56.6	0.0	113.6	
65.00	1.00	1.16	43.009	47.31	265.97	0.600	0.000	1.00	2.000	1.20	56.8	0.0	113.6	
66.00	1.00	1.16	43.148	47.46	266.40	0.600	0.000	1.00	2.000	1.20	57.0	0.0	113.6	
67.00	1.00	1.16	43.285	47.61	266.82	0.600	0.000	1.00	2.000	1.20	57.1	0.0	113.6	
68.00	1.00	1.17	43.420	47.76	267.23	0.600	0.000	1.00	2.000	1.20	57.3	0.0	113.6	
69.00	1.00	1.17	43.554	47.91	267.65	0.600	0.000	1.00	2.000	1.20	57.5	0.0	113.6	
70.00	1.00	1.17	43.686	48.05	268.05	0.600	0.000	1.00	2.000	1.20	57.7	0.0	113.6	
71.00	1.00	1.18	43.816	48.20	268.45	0.600	0.000	1.00	2.000	1.20	57.8	0.0	113.6	
72.00	1.00	1.18	43.946	48.34	268.85	0.600	0.000	1.00	2.000	1.20	58.0	0.0	113.6	
73.00	1.00	1.18	44.073	48.48	269.24	0.600	0.000	1.00	2.000	1.20	58.2	0.0	113.6	
74.00	1.00	1.19	44.200	48.62	269.62	0.600	0.000	1.00	2.000	1.20	58.3	0.0	113.6	
75.00	Appurtenance(s)	1.00	1.19	44.325	48.76	270.01	0.600	0.000	1.00	2.000	1.20	58.5	0.0	113.6
76.00	1.00	1.19	44.449	48.89	270.38	0.600	0.000	1.00	2.000	1.20	58.7	0.0	113.6	
77.00	1.00	1.20	44.571	49.03	270.75	0.600	0.000	1.00	2.000	1.20	58.8	0.0	113.6	
78.00	1.00	1.20	44.692	49.16	271.12	0.600	0.000	1.00	2.000	1.20	59.0	0.0	113.6	
79.00	1.00	1.20	44.812	49.29	271.49	0.600	0.000	1.00	2.000	1.20	59.2	0.0	113.6	
80.00	Top - Section 3	1.00	1.21	44.931	49.42	271.85	0.600	0.000	1.00	2.000	1.20	59.3	0.0	113.6
81.00	1.00	1.21	45.049	49.55	272.20	0.600	0.000	1.00	2.000	1.20	59.5	0.0	113.6	
82.00	1.00	1.21	45.165	49.68	272.55	0.600	0.000	1.00	2.000	1.20	59.6	0.0	113.6	
83.00	1.00	1.22	45.281	49.81	272.90	0.600	0.000	1.00	2.000	1.20	59.8	0.0	113.6	
84.00	1.00	1.22	45.395	49.93	273.25	0.600	0.000	1.00	2.000	1.20	59.9	0.0	113.6	
85.00	1.00	1.22	45.508	50.06	273.59	0.600	0.000	1.00	2.000	1.20	60.1	0.0	113.6	
86.00	1.00	1.23	45.621	50.18	273.92	0.600	0.000	1.00	2.000	1.20	60.2	0.0	113.6	
87.00	1.00	1.23	45.732	50.30	274.26	0.600	0.000	1.00	2.000	1.20	60.4	0.0	113.6	
88.00	1.00	1.23	45.842	50.43	274.59	0.600	0.000	1.00	2.000	1.20	60.5	0.0	113.6	
89.00	1.00	1.23	45.951	50.55	274.91	0.600	0.000	1.00	2.000	1.20	60.7	0.0	113.6	
90.00	1.00	1.24	46.059	50.67	275.24	0.600	0.000	1.00	2.000	1.20	60.8	0.0	113.6	
91.00	1.00	1.24	46.167	50.78	275.56	0.600	0.000	1.00	2.000	1.20	60.9	0.0	113.6	
92.00	1.00	1.24	46.273	50.90	275.87	0.600	0.000	1.00	2.000	1.20	61.1	0.0	113.6	
93.00	1.00	1.25	46.378	51.02	276.19	0.600	0.000	1.00	2.000	1.20	61.2	0.0	113.6	
94.00	1.00	1.25	46.483	51.13	276.50	0.600	0.000	1.00	2.000	1.20	61.4	0.0	113.6	
95.00	1.00	1.25	46.587	51.25	276.81	0.600	0.000	1.00	2.000	1.20	61.5	0.0	113.6	
96.00	1.00	1.25	46.689	51.36	277.11	0.600	0.000	1.00	2.000	1.20	61.6	0.0	113.6	
97.00	1.00	1.26	46.791	51.47	277.42	0.600	0.000	1.00	2.000	1.20	61.8	0.0	113.6	
98.00	1.00	1.26	46.892	51.58	277.72	0.600	0.000	1.00	2.000	1.20	61.9	0.0	113.6	
99.00	1.00	1.26	46.993	51.69	278.01	0.600	0.000	1.00	2.000	1.20	62.0	0.0	113.6	
100.00	1.00	1.27	47.092	51.80	278.31	0.600	0.000	1.00	2.000	1.20	62.2	0.0	113.6	
101.00	1.00	1.27	47.191	51.91	278.60	0.600	0.000	1.00	2.000	1.20	62.3	0.0	113.6	
102.00	1.00	1.27	47.289	52.02	278.89	0.600	0.000	1.00	2.000	1.20	62.4	0.0	113.6	
103.00	1.00	1.27	47.386	52.12	279.17	0.600	0.000	1.00	2.000	1.20	62.5	0.0	113.6	

Wind Loading - Shaft

Structure: CT04374-S-SBA

Code: TIA-222-H

7/5/2023

Site Name: Central Hebron

Exposure: C

Height: 150.00 (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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104.00	1.00	1.28	47.483	52.23	279.46	0.600	0.000	1.00	2.000	1.20	62.7	0.0	113.6
105.00	1.00	1.28	47.579	52.34	279.74	0.600	0.000	1.00	2.000	1.20	62.8	0.0	113.6
106.00	1.00	1.28	47.674	52.44	280.02	0.600	0.000	1.00	2.000	1.20	62.9	0.0	113.6
107.00	1.00	1.28	47.768	52.54	280.30	0.600	0.000	1.00	2.000	1.20	63.1	0.0	113.6
108.00 Top - Section 4	1.00	1.29	47.862	52.65	280.57	0.600	0.000	1.00	2.000	1.20	63.2	0.0	113.6
109.00	1.00	1.29	47.955	52.75	421.26	0.600	0.000	1.00	3.000	1.80	94.9	0.0	125.2
110.00 Top - Section 5 RB1	1.00	1.29	48.047	52.85	421.67	0.600	0.000	1.00	3.000	1.80	95.1	0.0	125.2
111.00	1.00	1.29	48.138	52.95	422.07	0.600	0.000	1.00	3.000	1.80	95.3	0.0	85.3
111.50 RT1	1.00	1.29	48.184	53.00	422.27	0.600	0.000	0.50	1.500	0.90	47.7	0.0	42.6
112.00	1.00	1.30	48.229	53.05	422.47	0.600	0.000	0.50	1.500	0.90	47.7	0.0	42.6
113.00	1.00	1.30	48.320	53.15	422.87	0.600	0.000	1.00	3.000	1.80	95.7	0.0	85.3
114.00	1.00	1.30	48.409	53.25	423.26	0.600	0.000	1.00	3.000	1.80	95.9	0.0	85.3
115.00 Appurtenance(s)	1.00	1.30	48.499	53.35	423.65	0.600	0.000	1.00	3.000	1.80	96.0	0.0	85.3
116.00	1.00	1.31	48.587	53.45	424.03	0.600	0.000	1.00	3.000	1.80	96.2	0.0	85.3
117.00	1.00	1.31	48.675	53.54	424.42	0.600	0.000	1.00	3.000	1.80	96.4	0.0	85.3
118.00	1.00	1.31	48.762	53.64	424.80	0.600	0.000	1.00	3.000	1.80	96.5	0.0	85.3
119.00	1.00	1.31	48.849	53.73	425.17	0.600	0.000	1.00	3.000	1.80	96.7	0.0	85.3
120.00 Appurtenance(s)	1.00	1.32	48.935	53.83	425.55	0.600	0.000	1.00	3.000	1.80	96.9	0.0	85.3
121.00	1.00	1.32	49.021	53.92	425.92	0.600	0.000	1.00	3.000	1.80	97.1	0.0	85.3
122.00	1.00	1.32	49.106	54.02	426.29	0.600	0.000	1.00	3.000	1.80	97.2	0.0	85.3
123.00	1.00	1.32	49.190	54.11	426.66	0.600	0.000	1.00	3.000	1.80	97.4	0.0	85.3
124.00	1.00	1.32	49.274	54.20	427.02	0.600	0.000	1.00	3.000	1.80	97.6	0.0	85.3
125.00	1.00	1.33	49.357	54.29	427.38	0.600	0.000	1.00	3.000	1.80	97.7	0.0	85.3
126.00	1.00	1.33	49.440	54.38	427.74	0.600	0.000	1.00	3.000	1.80	97.9	0.0	85.3
127.00 Appurtenance(s)	1.00	1.33	49.523	54.47	428.10	0.600	0.000	1.00	3.000	1.80	98.1	0.0	85.3
128.00	1.00	1.33	49.604	54.56	428.45	0.600	0.000	1.00	3.000	1.80	98.2	0.0	85.3
129.00	1.00	1.34	49.686	54.65	428.80	0.600	0.000	1.00	3.000	1.80	98.4	0.0	85.3
130.00 Top - Section 6	1.00	1.34	49.767	54.74	429.15	0.600	0.000	1.00	3.000	1.80	98.5	0.0	85.3
131.00	1.00	1.34	49.847	54.83	429.50	0.600	0.000	1.00	3.000	1.80	98.7	0.0	45.8
132.00	1.00	1.34	49.927	54.92	429.84	0.600	0.000	1.00	3.000	1.80	98.9	0.0	45.8
133.00	1.00	1.34	50.006	55.01	430.18	0.600	0.000	1.00	3.000	1.80	99.0	0.0	45.8
134.00	1.00	1.35	50.085	55.09	430.52	0.600	0.000	1.00	3.000	1.80	99.2	0.0	45.8
135.00 Appurtenance(s)	1.00	1.35	50.164	55.18	430.86	0.600	0.000	1.00	3.000	1.80	99.3	0.0	45.8
136.00	1.00	1.35	50.242	55.27	431.19	0.600	0.000	1.00	3.000	1.80	99.5	0.0	45.8
137.00	1.00	1.35	50.319	55.35	431.53	0.600	0.000	1.00	3.000	1.80	99.6	0.0	45.8
138.00	1.00	1.35	50.396	55.44	431.86	0.600	0.000	1.00	3.000	1.80	99.8	0.0	45.8
139.00	1.00	1.36	50.473	55.52	432.18	0.600	0.000	1.00	3.000	1.80	99.9	0.0	45.8
140.00 Appurtenance(s)	1.00	1.36	50.549	55.60	432.51	0.600	0.000	1.00	3.000	1.80	100.1	0.0	45.8
141.00	1.00	1.36	50.625	55.69	432.83	0.600	0.000	1.00	3.000	1.80	100.2	0.0	45.8
142.00	1.00	1.36	50.700	55.77	433.16	0.600	0.000	1.00	3.000	1.80	100.4	0.0	45.8
143.00	1.00	1.36	50.775	55.85	433.48	0.600	0.000	1.00	3.000	1.80	100.5	0.0	45.8
144.00	1.00	1.37	50.850	55.93	433.79	0.600	0.000	1.00	3.000	1.80	100.7	0.0	45.8
145.00 Appurtenance(s)	1.00	1.37	50.924	56.02	434.11	0.600	0.000	1.00	3.000	1.80	100.8	0.0	45.8
146.00	1.00	1.37	50.998	56.10	434.43	0.600	0.000	1.00	3.000	1.80	101.0	0.0	45.8
147.00	1.00	1.37	51.071	56.18	434.74	0.600	0.000	1.00	3.000	1.80	101.1	0.0	45.8
148.00	1.00	1.37	51.144	56.26	435.05	0.600	0.000	1.00	3.000	1.80	101.3	0.0	45.8
149.00	1.00	1.38	51.217	56.34	435.36	0.600	0.000	1.00	3.000	1.80	101.4	0.0	45.8
150.00 Appurtenance(s)	1.00	1.38	51.289	56.42	435.66	0.600	0.000	1.00	3.000	1.80	101.6	0.0	45.8
Totals:								150.00			10,683.3		17,167.4

Discrete Appurtenance Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

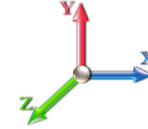


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Load Case: 1.2D + 1.0W 125 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 43

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor 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	150.00	36" Canister Weight	1	51.289	56.418	1.00	1.00	0.00	77.48	0.000	0.000	0.00	0.00	0.00
2	150.00	Truck Ball	1	51.325	56.457	1.00	1.00	1.41	6.00	0.000	0.500	79.60	0.00	39.80
3	145.00	CDX623T-DS	6	50.924	56.016	0.00	1.00	0.00	72.72	0.000	0.000	0.00	0.00	0.00
4	145.00	FFVV-65B-R3	3	50.924	56.016	0.00	1.00	0.00	157.68	0.000	0.000	0.00	0.00	0.00
5	140.00	36" Canister Weight	1	50.549	55.604	1.00	1.00	0.00	154.97	0.000	0.000	0.00	0.00	0.00
6	140.00	Flag	1	50.549	55.604	1.00	1.00	6.89	30.00	0.000	0.000	383.11	0.00	0.00
7	135.00	Flush Mount	1	50.164	55.180	0.00	1.00	0.00	30.00	0.000	0.000	0.00	0.00	0.00
8	135.00	DB-T1-6Z-8AB-0Z	2	50.164	55.180	0.00	1.00	0.00	45.36	0.000	0.000	0.00	0.00	0.00
9	135.00	FDL85002/1C-3L	6	50.164	55.180	0.00	1.00	0.00	50.40	0.000	0.000	0.00	0.00	0.00
10	135.00	SBNHH-1D65A	3	50.164	55.180	0.00	1.00	0.00	120.60	0.000	0.000	0.00	0.00	0.00
11	130.00	36" Canister Weight	1	49.767	54.743	1.00	1.00	0.00	154.97	0.000	0.000	0.00	0.00	0.00
12	127.00	Flush Mount	1	49.523	54.475	0.00	1.00	0.00	30.00	0.000	0.000	0.00	0.00	0.00
13	127.00	ATSBT-TOP-FM	3	49.523	54.475	0.00	1.00	0.00	6.48	0.000	0.000	0.00	0.00	0.00
14	127.00	CBC426T-DS-43	6	49.523	54.475	0.00	1.00	0.00	52.56	0.000	0.000	0.00	0.00	0.00
15	127.00	D2WC-21 (2LB+4MB)	3	49.523	54.475	0.00	1.00	0.00	111.24	0.000	0.000	0.00	0.00	0.00
16	120.00	36" Canister Weight	1	48.935	53.829	1.00	1.00	0.00	154.97	0.000	0.000	0.00	0.00	0.00
17	115.00	Flush Mount	1	48.499	53.348	0.00	1.00	0.00	30.00	0.000	0.000	0.00	0.00	0.00
18	115.00	Kaleus	6	48.499	53.348	0.00	1.00	0.00	164.16	0.000	0.000	0.00	0.00	0.00
19	115.00	800372965	3	48.499	53.348	0.00	1.00	0.00	268.20	0.000	0.000	0.00	0.00	0.00
20	110.00	36" Canister Weight	1	48.047	52.851	1.00	1.00	0.00	92.98	0.000	0.000	0.00	0.00	0.00
21	108.00	36" Canister Weight	1	47.862	52.648	1.00	1.00	0.00	15.49	0.000	0.000	0.00	0.00	0.00
22	75.00	GPS	1	44.325	48.757	0.80	0.80	0.80	12.00	0.000	0.000	39.01	0.00	0.00
Totals:									1,838.26			501.72		

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

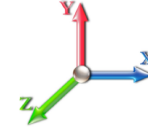


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Load Case: 1.2D + 1.0W 125 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 43

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
1.00		62.62	214.31	0.00	0.00
2.00		62.62	214.31	0.00	0.00
3.00		62.62	214.31	0.00	0.00
4.00		62.62	214.31	0.00	0.00
5.00		62.62	214.31	0.00	0.00
6.00		62.62	214.31	0.00	0.00
7.00		62.62	214.31	0.00	0.00
8.00		62.62	214.31	0.00	0.00
9.00		62.62	214.31	0.00	0.00
10.00		62.62	214.31	0.00	0.00
11.00		62.62	214.31	0.00	0.00
12.00		62.62	214.31	0.00	0.00
13.00		62.62	214.31	0.00	0.00
14.00		62.62	214.31	0.00	0.00
15.00		62.62	214.31	0.00	0.00
16.00		63.40	214.31	0.00	0.00
17.00		64.21	214.31	0.00	0.00
18.00		64.99	214.31	0.00	0.00
19.00		65.73	214.31	0.00	0.00
20.00		66.45	214.31	0.00	0.00
21.00		55.94	185.45	0.00	0.00
22.00		56.49	185.45	0.00	0.00
23.00		57.02	185.45	0.00	0.00
24.00		57.54	185.45	0.00	0.00
25.00		58.03	185.45	0.00	0.00
26.00		58.52	185.45	0.00	0.00
27.00		58.98	185.45	0.00	0.00
28.00		59.44	185.45	0.00	0.00
29.00		59.88	185.45	0.00	0.00
30.00		60.31	185.45	0.00	0.00
31.00		60.72	185.45	0.00	0.00
32.00		61.13	185.45	0.00	0.00
33.00		61.53	185.45	0.00	0.00
34.00		61.92	185.45	0.00	0.00
35.00		62.29	185.45	0.00	0.00
36.00		62.66	185.45	0.00	0.00
37.00		63.03	185.45	0.00	0.00
38.00		63.38	185.45	0.00	0.00
39.00		63.73	185.45	0.00	0.00
40.00		64.07	185.45	0.00	0.00
41.00		64.40	185.45	0.00	0.00
42.00		64.73	185.45	0.00	0.00
43.00		65.05	185.45	0.00	0.00
44.00		65.37	185.45	0.00	0.00
45.00		65.68	185.45	0.00	0.00
46.00		65.98	185.45	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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47.00	66.28	185.45	0.00	0.00
48.00	66.58	185.45	0.00	0.00
49.00	66.87	185.45	0.00	0.00
50.00	67.15	185.45	0.00	0.00
51.00	53.95	156.59	0.00	0.00
52.00	54.17	156.59	0.00	0.00
53.00	54.38	156.59	0.00	0.00
54.00	54.60	156.59	0.00	0.00
55.00	54.81	156.59	0.00	0.00
56.00	55.02	156.59	0.00	0.00
57.00	55.22	156.59	0.00	0.00
58.00	55.43	156.59	0.00	0.00
59.00	55.63	156.59	0.00	0.00
60.00	55.82	156.59	0.00	0.00
61.00	56.02	156.59	0.00	0.00
62.00	56.21	156.59	0.00	0.00
63.00	56.40	156.59	0.00	0.00
64.00	56.59	156.59	0.00	0.00
65.00	56.77	156.59	0.00	0.00
66.00	56.96	156.59	0.00	0.00
67.00	57.14	156.59	0.00	0.00
68.00	57.31	156.59	0.00	0.00
69.00	57.49	156.59	0.00	0.00
70.00	57.67	156.59	0.00	0.00
71.00	57.84	156.59	0.00	0.00
72.00	58.01	156.59	0.00	0.00
73.00	58.18	156.59	0.00	0.00
74.00	58.34	156.59	0.00	0.00
75.00	(1) attachments	97.51	168.59	0.00
76.00		58.67	156.39	0.00
77.00		58.83	156.39	0.00
78.00		58.99	156.39	0.00
79.00		59.15	156.39	0.00
80.00		59.31	156.39	0.00
81.00		59.46	156.39	0.00
82.00		59.62	156.39	0.00
83.00		59.77	156.39	0.00
84.00		59.92	156.39	0.00
85.00		60.07	156.39	0.00
86.00		60.22	156.39	0.00
87.00		60.37	156.39	0.00
88.00		60.51	156.39	0.00
89.00		60.66	156.39	0.00
90.00		60.80	156.39	0.00
91.00		60.94	156.39	0.00
92.00		61.08	156.39	0.00
93.00		61.22	156.39	0.00
94.00		61.36	156.39	0.00
95.00		61.49	156.39	0.00
96.00		61.63	156.39	0.00
97.00		61.76	156.39	0.00
98.00		61.90	156.39	0.00
99.00		62.03	156.39	0.00
100.00		62.16	156.39	0.00
101.00		62.29	156.39	0.00
102.00		62.42	156.39	0.00
103.00		62.55	156.39	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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104.00	62.68	156.39	0.00	0.00
105.00	62.80	156.39	0.00	0.00
106.00	62.93	156.39	0.00	0.00
107.00	63.05	156.39	0.00	0.00
108.00	(1) attachments 63.18	171.89	0.00	0.00
109.00	94.95	167.91	0.00	0.00
110.00	(1) attachments 95.13	260.89	0.00	0.00
111.00	95.31	128.03	0.00	0.00
111.50	47.70	64.01	0.00	0.00
112.00	47.75	64.01	0.00	0.00
113.00	95.67	128.03	0.00	0.00
114.00	95.85	128.03	0.00	0.00
115.00	(10) attachments 96.03	590.39	0.00	0.00
116.00	96.20	120.54	0.00	0.00
117.00	96.38	120.54	0.00	0.00
118.00	96.55	120.54	0.00	0.00
119.00	96.72	120.54	0.00	0.00
120.00	(1) attachments 96.89	275.51	0.00	0.00
121.00	97.06	120.54	0.00	0.00
122.00	97.23	120.54	0.00	0.00
123.00	97.40	120.54	0.00	0.00
124.00	97.56	120.54	0.00	0.00
125.00	97.73	120.54	0.00	0.00
126.00	97.89	120.54	0.00	0.00
127.00	(13) attachments 98.05	320.82	0.00	0.00
128.00	98.22	109.81	0.00	0.00
129.00	98.38	109.81	0.00	0.00
130.00	(1) attachments 98.54	264.78	0.00	0.00
131.00	98.70	70.37	0.00	0.00
132.00	98.86	70.37	0.00	0.00
133.00	99.01	70.37	0.00	0.00
134.00	99.17	70.37	0.00	0.00
135.00	(12) attachments 99.32	316.73	0.00	0.00
136.00	99.48	60.82	0.00	0.00
137.00	99.63	60.82	0.00	0.00
138.00	99.78	60.82	0.00	0.00
139.00	99.94	60.82	0.00	0.00
140.00	(2) attachments 483.20	245.78	0.00	0.00
141.00	100.24	60.82	0.00	0.00
142.00	100.39	60.82	0.00	0.00
143.00	100.54	60.82	0.00	0.00
144.00	100.68	60.82	0.00	0.00
145.00	(9) attachments 100.83	291.22	0.00	0.00
146.00	100.98	45.84	0.00	0.00
147.00	101.12	45.84	0.00	0.00
148.00	101.27	45.84	0.00	0.00
149.00	101.41	45.84	0.00	0.00
150.00	(2) attachments 181.16	129.32	0.00	39.80
Totals:	11,185.00	24,704.64	0.00	39.80

Linear Appurtenance Segment Forces (Factored)

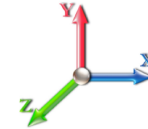
Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 125 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 43

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)
18.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	32.822	0.00	0.00
19.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	33.198	0.00	0.00
20.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	33.558	0.00	0.00
21.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	33.905	0.00	0.00
22.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	34.238	0.00	0.00
23.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	34.560	0.00	0.00
Totals:											0.0	0.0

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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 + 1.0W 125 mph Wind

Iterations 43

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	-24.70	-11.19	0.00	-1025.7	0.00	1025.77	1490.10	475.94	99948.2	1339.68	0.00	0.000	0.000	0.783
1.00	-24.48	-11.15	0.00	-1014.5	0.00	1014.57	1490.10	475.94	99948.2	1339.68	0.00	-0.044	0.000	0.774
2.00	-24.25	-11.11	0.00	-1003.4	0.00	1003.42	1490.10	475.94	99948.2	1339.68	0.02	-0.087	0.000	0.766
3.00	-24.03	-11.06	0.00	-992.32	0.00	992.32	1490.10	475.94	99948.2	1339.68	0.04	-0.129	0.000	0.757
4.00	-23.81	-11.01	0.00	-981.26	0.00	981.26	1490.10	475.94	99948.2	1339.68	0.07	-0.171	0.000	0.749
5.00	-23.59	-10.97	0.00	-970.24	0.00	970.24	1490.10	475.94	99948.2	1339.68	0.11	-0.213	0.000	0.741
6.00	-23.37	-10.92	0.00	-959.28	0.00	959.28	1490.10	475.94	99948.2	1339.68	0.16	-0.254	0.000	0.732
7.00	-23.14	-10.87	0.00	-948.36	0.00	948.36	1490.10	475.94	99948.2	1339.68	0.22	-0.295	0.000	0.724
8.00	-22.92	-10.83	0.00	-937.48	0.00	937.48	1490.10	475.94	99948.2	1339.68	0.29	-0.335	0.000	0.716
9.00	-22.70	-10.78	0.00	-926.66	0.00	926.66	1490.10	475.94	99948.2	1339.68	0.36	-0.375	0.000	0.707
10.00	-22.48	-10.73	0.00	-915.88	0.00	915.88	1490.10	475.94	99948.2	1339.68	0.44	-0.414	0.000	0.699
11.00	-22.26	-10.68	0.00	-905.15	0.00	905.15	1490.10	475.94	99948.2	1339.68	0.54	-0.453	0.000	0.691
12.00	-22.04	-10.63	0.00	-894.47	0.00	894.47	1490.10	475.94	99948.2	1339.68	0.63	-0.492	0.000	0.683
13.00	-21.82	-10.58	0.00	-883.84	0.00	883.84	1490.10	475.94	99948.2	1339.68	0.74	-0.530	0.000	0.675
14.00	-21.60	-10.53	0.00	-873.26	0.00	873.26	1490.10	475.94	99948.2	1339.68	0.86	-0.567	0.000	0.667
15.00	-21.38	-10.48	0.00	-862.73	0.00	862.73	1490.10	475.94	99948.2	1339.68	0.98	-0.604	0.000	0.659
16.00	-21.16	-10.43	0.00	-852.26	0.00	852.26	1490.10	475.94	99948.2	1339.68	1.11	-0.641	0.000	0.651
17.00	-20.94	-10.37	0.00	-841.83	0.00	841.83	1490.10	475.94	99948.2	1339.68	1.25	-0.677	0.000	0.643
18.00	-20.72	-10.32	0.00	-831.46	0.00	831.46	1490.10	475.94	99948.2	1339.68	1.39	-0.713	0.000	0.635
19.00	-20.50	-10.26	0.00	-821.14	0.00	821.14	1490.10	475.94	99948.2	1339.68	1.55	-0.748	0.000	0.627
20.00	-20.28	-10.20	0.00	-810.88	0.00	810.88	1490.10	475.94	99948.2	1339.68	1.71	-0.783	0.000	0.619
20.00	-20.28	-10.20	0.00	-810.88	0.00	810.88	1311.06	395.78	69116.5	948.43	1.71	-0.783	0.000	0.871
21.00	-20.08	-10.16	0.00	-800.67	0.00	800.67	1311.06	395.78	69116.5	948.43	1.88	-0.817	0.000	0.860
22.00	-19.89	-10.12	0.00	-790.51	0.00	790.51	1311.06	395.78	69116.5	948.43	2.05	-0.876	0.000	0.849
23.00	-19.70	-10.08	0.00	-780.39	0.00	780.39	1311.06	395.78	69116.5	948.43	2.24	-0.935	0.000	0.838
24.00	-19.50	-10.04	0.00	-770.31	0.00	770.31	1311.06	395.78	69116.5	948.43	2.44	-0.992	0.000	0.828
25.00	-19.31	-10.00	0.00	-760.26	0.00	760.26	1311.06	395.78	69116.5	948.43	2.66	-1.049	0.000	0.817
26.00	-19.11	-9.96	0.00	-750.26	0.00	750.26	1311.06	395.78	69116.5	948.43	2.88	-1.105	0.000	0.806
27.00	-18.92	-9.91	0.00	-740.31	0.00	740.31	1311.06	395.78	69116.5	948.43	3.12	-1.160	0.000	0.796
28.00	-18.73	-9.87	0.00	-730.39	0.00	730.39	1311.06	395.78	69116.5	948.43	3.37	-1.215	0.000	0.785
29.00	-18.53	-9.82	0.00	-720.53	0.00	720.53	1311.06	395.78	69116.5	948.43	3.63	-1.269	0.000	0.774
30.00	-18.34	-9.77	0.00	-710.71	0.00	710.71	1311.06	395.78	69116.5	948.43	3.90	-1.322	0.000	0.764
31.00	-18.15	-9.72	0.00	-700.94	0.00	700.94	1311.06	395.78	69116.5	948.43	4.19	-1.374	0.000	0.753
32.00	-17.95	-9.67	0.00	-691.21	0.00	691.21	1311.06	395.78	69116.5	948.43	4.48	-1.426	0.000	0.743
33.00	-17.76	-9.62	0.00	-681.54	0.00	681.54	1311.06	395.78	69116.5	948.43	4.78	-1.477	0.000	0.733
34.00	-17.57	-9.57	0.00	-671.92	0.00	671.92	1311.06	395.78	69116.5	948.43	5.10	-1.527	0.000	0.722
35.00	-17.38	-9.52	0.00	-662.34	0.00	662.34	1311.06	395.78	69116.5	948.43	5.42	-1.577	0.000	0.712
36.00	-17.19	-9.47	0.00	-652.82	0.00	652.82	1311.06	395.78	69116.5	948.43	5.76	-1.626	0.000	0.702
37.00	-16.99	-9.41	0.00	-643.36	0.00	643.36	1311.06	395.78	69116.5	948.43	6.10	-1.674	0.000	0.692
38.00	-16.80	-9.36	0.00	-633.94	0.00	633.94	1311.06	395.78	69116.5	948.43	6.46	-1.721	0.000	0.682
39.00	-16.61	-9.30	0.00	-624.59	0.00	624.59	1311.06	395.78	69116.5	948.43	6.83	-1.768	0.000	0.672
40.00	-16.42	-9.24	0.00	-615.29	0.00	615.29	1311.06	395.78	69116.5	948.43	7.20	-1.814	0.000	0.662
41.00	-16.23	-9.19	0.00	-606.04	0.00	606.04	1311.06	395.78	69116.5	948.43	7.59	-1.859	0.000	0.652
42.00	-16.04	-9.13	0.00	-596.85	0.00	596.85	1311.06	395.78	69116.5	948.43	7.98	-1.904	0.000	0.642
43.00	-15.85	-9.07	0.00	-587.73	0.00	587.73	1311.06	395.78	69116.5	948.43	8.38	-1.948	0.000	0.632
44.00	-15.66	-9.01	0.00	-578.66	0.00	578.66	1311.06	395.78	69116.5	948.43	8.80	-1.991	0.000	0.623
45.00	-15.47	-8.95	0.00	-569.65	0.00	569.65	1311.06	395.78	69116.5	948.43	9.22	-2.034	0.000	0.613
46.00	-15.28	-8.89	0.00	-560.70	0.00	560.70	1311.06	395.78	69116.5	948.43	9.65	-2.076	0.000	0.603

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 19



47.00	-15.09	-8.83	0.00	-551.81	0.00	551.81	1311.06	395.78	69116.5	948.43	10.09	-2.117	0.000	0.594
48.00	-14.90	-8.76	0.00	-542.98	0.00	542.98	1311.06	395.78	69116.5	948.43	10.54	-2.158	0.000	0.584
49.00	-14.71	-8.70	0.00	-534.22	0.00	534.22	1311.06	395.78	69116.5	948.43	10.99	-2.198	0.000	0.575
50.00	-14.53	-8.63	0.00	-525.52	0.00	525.52	1311.06	395.78	69116.5	948.43	11.46	-2.237	0.000	0.566
50.00	-14.53	-8.63	0.00	-525.52	0.00	525.52	1052.07	315.62	43955.0	624.04	11.46	-2.237	0.000	0.857
51.00	-14.36	-8.59	0.00	-516.89	0.00	516.89	1052.07	315.62	43955.0	624.04	11.93	-2.276	0.000	0.843
52.00	-14.20	-8.55	0.00	-508.30	0.00	508.30	1052.07	315.62	43955.0	624.04	12.41	-2.351	0.000	0.829
53.00	-14.03	-8.50	0.00	-499.76	0.00	499.76	1052.07	315.62	43955.0	624.04	12.91	-2.425	0.000	0.815
54.00	-13.87	-8.46	0.00	-491.25	0.00	491.25	1052.07	315.62	43955.0	624.04	13.43	-2.497	0.000	0.801
55.00	-13.70	-8.41	0.00	-482.79	0.00	482.79	1052.07	315.62	43955.0	624.04	13.96	-2.568	0.000	0.787
56.00	-13.54	-8.37	0.00	-474.38	0.00	474.38	1052.07	315.62	43955.0	624.04	14.51	-2.639	0.000	0.774
57.00	-13.38	-8.32	0.00	-466.01	0.00	466.01	1052.07	315.62	43955.0	624.04	15.07	-2.707	0.000	0.760
58.00	-13.21	-8.28	0.00	-457.69	0.00	457.69	1052.07	315.62	43955.0	624.04	15.64	-2.775	0.000	0.747
59.00	-13.05	-8.23	0.00	-449.41	0.00	449.41	1052.07	315.62	43955.0	624.04	16.23	-2.841	0.000	0.733
60.00	-12.89	-8.18	0.00	-441.18	0.00	441.18	1052.07	315.62	43955.0	624.04	16.83	-2.907	0.000	0.720
61.00	-12.72	-8.13	0.00	-433.01	0.00	433.01	1052.07	315.62	43955.0	624.04	17.44	-2.971	0.000	0.707
62.00	-12.56	-8.08	0.00	-424.88	0.00	424.88	1052.07	315.62	43955.0	624.04	18.07	-3.033	0.000	0.693
63.00	-12.40	-8.03	0.00	-416.80	0.00	416.80	1052.07	315.62	43955.0	624.04	18.72	-3.095	0.000	0.680
64.00	-12.24	-7.97	0.00	-408.77	0.00	408.77	1052.07	315.62	43955.0	624.04	19.37	-3.155	0.000	0.667
65.00	-12.08	-7.92	0.00	-400.80	0.00	400.80	1052.07	315.62	43955.0	624.04	20.04	-3.215	0.000	0.654
66.00	-11.92	-7.87	0.00	-392.88	0.00	392.88	1052.07	315.62	43955.0	624.04	20.72	-3.273	0.000	0.642
67.00	-11.76	-7.81	0.00	-385.01	0.00	385.01	1052.07	315.62	43955.0	624.04	21.41	-3.330	0.000	0.629
68.00	-11.59	-7.76	0.00	-377.20	0.00	377.20	1052.07	315.62	43955.0	624.04	22.11	-3.386	0.000	0.616
69.00	-11.43	-7.70	0.00	-369.44	0.00	369.44	1052.07	315.62	43955.0	624.04	22.82	-3.440	0.000	0.603
70.00	-11.27	-7.64	0.00	-361.74	0.00	361.74	1052.07	315.62	43955.0	624.04	23.55	-3.494	0.000	0.591
71.00	-11.12	-7.59	0.00	-354.10	0.00	354.10	1052.07	315.62	43955.0	624.04	24.29	-3.546	0.000	0.579
72.00	-10.96	-7.53	0.00	-346.51	0.00	346.51	1052.07	315.62	43955.0	624.04	25.04	-3.597	0.000	0.566
73.00	-10.80	-7.47	0.00	-338.98	0.00	338.98	1052.07	315.62	43955.0	624.04	25.79	-3.648	0.000	0.554
74.00	-10.64	-7.41	0.00	-331.51	0.00	331.51	1052.07	315.62	43955.0	624.04	26.56	-3.697	0.000	0.542
75.00	-10.47	-7.31	0.00	-324.10	0.00	324.10	1052.07	315.62	43955.0	624.04	27.34	-3.745	0.000	0.530
76.00	-10.31	-7.25	0.00	-316.79	0.00	316.79	1052.07	315.62	43955.0	624.04	28.13	-3.792	0.000	0.518
77.00	-10.15	-7.19	0.00	-309.54	0.00	309.54	1052.07	315.62	43955.0	624.04	28.93	-3.837	0.000	0.506
78.00	-10.00	-7.13	0.00	-302.35	0.00	302.35	1052.07	315.62	43955.0	624.04	29.74	-3.882	0.000	0.495
79.00	-9.84	-7.07	0.00	-295.22	0.00	295.22	1052.07	315.62	43955.0	624.04	30.55	-3.926	0.000	0.483
80.00	-9.68	-7.00	0.00	-288.15	0.00	288.15	1052.07	315.62	43955.0	624.04	31.38	-3.969	0.000	0.471
80.00	-9.68	-7.00	0.00	-288.15	0.00	288.15	1052.07	315.62	43955.0	624.04	31.38	-3.969	0.000	0.471
81.00	-9.53	-6.94	0.00	-281.15	0.00	281.15	1052.07	315.62	43955.0	624.04	32.22	-4.010	0.000	0.460
82.00	-9.37	-6.88	0.00	-274.21	0.00	274.21	1052.07	315.62	43955.0	624.04	33.06	-4.051	0.000	0.449
83.00	-9.21	-6.81	0.00	-267.33	0.00	267.33	1052.07	315.62	43955.0	624.04	33.91	-4.091	0.000	0.438
84.00	-9.06	-6.75	0.00	-260.52	0.00	260.52	1052.07	315.62	43955.0	624.04	34.77	-4.129	0.000	0.427
85.00	-8.90	-6.68	0.00	-253.77	0.00	253.77	1052.07	315.62	43955.0	624.04	35.64	-4.167	0.000	0.416
86.00	-8.74	-6.62	0.00	-247.09	0.00	247.09	1052.07	315.62	43955.0	624.04	36.52	-4.204	0.000	0.405
87.00	-8.59	-6.55	0.00	-240.47	0.00	240.47	1052.07	315.62	43955.0	624.04	37.40	-4.239	0.000	0.394
88.00	-8.43	-6.48	0.00	-233.92	0.00	233.92	1052.07	315.62	43955.0	624.04	38.29	-4.274	0.000	0.383
89.00	-8.28	-6.42	0.00	-227.44	0.00	227.44	1052.07	315.62	43955.0	624.04	39.19	-4.308	0.000	0.373
90.00	-8.12	-6.35	0.00	-221.03	0.00	221.03	1052.07	315.62	43955.0	624.04	40.09	-4.341	0.000	0.362
91.00	-7.97	-6.28	0.00	-214.68	0.00	214.68	1052.07	315.62	43955.0	624.04	41.00	-4.372	0.000	0.352
92.00	-7.81	-6.21	0.00	-208.40	0.00	208.40	1052.07	315.62	43955.0	624.04	41.92	-4.403	0.000	0.342
93.00	-7.66	-6.14	0.00	-202.19	0.00	202.19	1052.07	315.62	43955.0	624.04	42.85	-4.433	0.000	0.332
94.00	-7.51	-6.07	0.00	-196.05	0.00	196.05	1052.07	315.62	43955.0	624.04	43.78	-4.463	0.000	0.322
95.00	-7.35	-6.00	0.00	-189.98	0.00	189.98	1052.07	315.62	43955.0	624.04	44.72	-4.491	0.000	0.312
96.00	-7.20	-5.93	0.00	-183.98	0.00	183.98	1052.07	315.62	43955.0	624.04	45.66	-4.518	0.000	0.302
97.00	-7.04	-5.86	0.00	-178.05	0.00	178.05	1052.07	315.62	43955.0	624.04	46.61	-4.545	0.000	0.292
98.00	-6.89	-5.79	0.00	-172.18	0.00	172.18	1052.07	315.62	43955.0	624.04	47.56	-4.570	0.000	0.283
99.00	-6.74	-5.72	0.00	-166.40	0.00	166.40	1052.07	315.62	43955.0	624.04	48.52	-4.595	0.000	0.273
100.00	-6.58	-5.65	0.00	-160.68	0.00	160.68	1052.07	315.62	43955.0	624.04	49.48	-4.619	0.000	0.264
101.00	-6.43	-5.57	0.00	-155.03	0.00	155.03	1052.07	315.62	43955.0	624.04	50.45	-4.642	0.000	0.255

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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102.00	-6.28	-5.50	0.00	-149.46	0.00	149.46	1052.07	315.62	43955.0	624.04	51.43	-4.665	0.000	0.246
103.00	-6.13	-5.43	0.00	-143.96	0.00	143.96	1052.07	315.62	43955.0	624.04	52.40	-4.686	0.000	0.237
104.00	-5.97	-5.36	0.00	-138.53	0.00	138.53	1052.07	315.62	43955.0	624.04	53.39	-4.707	0.000	0.228
105.00	-5.82	-5.28	0.00	-133.17	0.00	133.17	1052.07	315.62	43955.0	624.04	54.37	-4.727	0.000	0.219
106.00	-5.67	-5.21	0.00	-127.89	0.00	127.89	1052.07	315.62	43955.0	624.04	55.36	-4.746	0.000	0.211
107.00	-5.52	-5.13	0.00	-122.68	0.00	122.68	1052.07	315.62	43955.0	624.04	56.36	-4.764	0.000	0.202
108.00	-5.35	-5.06	0.00	-117.55	0.00	117.55	1052.07	315.62	43955.0	624.04	57.36	-4.782	0.000	0.194
108.00	-5.35	-5.06	0.00	-117.55	0.00	117.55	1052.07	315.62	43955.0	624.04	57.36	-4.782	0.000	0.194
109.00	-5.19	-4.95	0.00	-112.49	0.00	112.49	1052.07	315.62	43955.0	624.04	58.36	-4.798	0.000	0.185
110.00	-4.93	-4.84	0.00	-107.54	0.00	107.54	1052.07	315.62	43955.0	624.04	59.37	-4.815	0.000	0.110
110.00	-4.93	-4.84	0.00	-107.54	0.00	107.54	682.83	204.85	11780.8	105.20	59.37	-4.815	0.000	0.028
111.00	-4.81	-4.73	0.00	-102.70	0.00	102.70	682.83	204.85	11780.8	105.20	60.37	-4.824	0.000	0.265
111.50	-4.75	-4.68	0.00	-100.33	0.00	100.33	682.83	204.85	11780.8	105.20	60.88	-4.876	0.000	0.259
111.50	-4.75	-4.68	0.00	-100.33	0.00	100.33	682.83	204.85	11780.8	105.20	60.88	-4.876	0.000	0.690
112.00	-4.67	-4.65	0.00	-97.99	0.00	97.99	682.83	204.85	11780.8	105.20	61.39	-4.926	0.000	0.939
113.00	-4.52	-4.57	0.00	-93.34	0.00	93.34	682.83	204.85	11780.8	105.20	62.46	-5.290	0.000	0.894
114.00	-4.38	-4.49	0.00	-88.77	0.00	88.77	682.83	204.85	11780.8	105.20	63.61	-5.637	0.000	0.851
115.00	-3.78	-4.35	0.00	-84.29	0.00	84.29	682.83	204.85	11780.8	105.20	64.82	-5.966	0.000	0.807
116.00	-3.65	-4.26	0.00	-79.93	0.00	79.93	682.83	204.85	11780.8	105.20	66.10	-6.279	0.000	0.766
117.00	-3.52	-4.17	0.00	-75.67	0.00	75.67	682.83	204.85	11780.8	105.20	67.44	-6.575	0.000	0.725
118.00	-3.39	-4.08	0.00	-71.49	0.00	71.49	682.83	204.85	11780.8	105.20	68.85	-6.855	0.000	0.685
119.00	-3.26	-3.98	0.00	-67.42	0.00	67.42	682.83	204.85	11780.8	105.20	70.31	-7.120	0.000	0.646
120.00	-2.98	-3.87	0.00	-63.43	0.00	63.43	682.83	204.85	11780.8	105.20	71.82	-7.369	0.000	0.608
121.00	-2.86	-3.76	0.00	-59.57	0.00	59.57	682.83	204.85	11780.8	105.20	73.39	-7.603	0.000	0.571
122.00	-2.74	-3.66	0.00	-55.80	0.00	55.80	682.83	204.85	11780.8	105.20	75.00	-7.823	0.000	0.535
123.00	-2.62	-3.56	0.00	-52.14	0.00	52.14	682.83	204.85	11780.8	105.20	76.65	-8.028	0.000	0.500
124.00	-2.51	-3.45	0.00	-48.58	0.00	48.58	682.83	204.85	11780.8	105.20	78.35	-8.220	0.000	0.466
125.00	-2.39	-3.35	0.00	-45.13	0.00	45.13	682.83	204.85	11780.8	105.20	80.08	-8.399	0.000	0.433
126.00	-2.28	-3.24	0.00	-41.78	0.00	41.78	682.83	204.85	11780.8	105.20	81.85	-8.564	0.000	0.401
127.00	-1.97	-3.10	0.00	-38.54	0.00	38.54	682.83	204.85	11780.8	105.20	83.66	-8.717	0.000	0.370
128.00	-1.87	-2.99	0.00	-35.45	0.00	35.45	682.83	204.85	11780.8	105.20	85.49	-8.858	0.000	0.340
129.00	-1.77	-2.88	0.00	-32.46	0.00	32.46	682.83	204.85	11780.8	105.20	87.35	-8.987	0.000	0.311
130.00	-1.52	-2.74	0.00	-29.58	0.00	29.58	682.83	204.85	11780.8	105.20	89.24	-9.105	0.000	0.284
130.00	-1.52	-2.74	0.00	-29.58	0.00	29.58	317.71	95.31	3734.62	52.28	89.24	-9.105	0.000	0.571
131.00	-1.46	-2.64	0.00	-26.84	0.00	26.84	317.71	95.31	3734.62	52.28	91.15	-9.213	0.000	0.519
132.00	-1.40	-2.53	0.00	-24.20	0.00	24.20	317.71	95.31	3734.62	52.28	93.09	-9.393	0.000	0.468
133.00	-1.34	-2.43	0.00	-21.67	0.00	21.67	317.71	95.31	3734.62	52.28	95.06	-9.555	0.000	0.419
134.00	-1.28	-2.32	0.00	-19.24	0.00	19.24	317.71	95.31	3734.62	52.28	97.07	-9.699	0.000	0.373
135.00	-0.98	-2.17	0.00	-16.92	0.00	16.92	317.71	95.31	3734.62	52.28	99.11	-9.826	0.000	0.327
136.00	-0.93	-2.06	0.00	-14.75	0.00	14.75	317.71	95.31	3734.62	52.28	101.17	-9.938	0.000	0.286
137.00	-0.89	-1.96	0.00	-12.69	0.00	12.69	317.71	95.31	3734.62	52.28	103.25	-10.035	0.000	0.246
138.00	-0.84	-1.85	0.00	-10.73	0.00	10.73	317.71	95.31	3734.62	52.28	105.35	-10.118	0.000	0.208
139.00	-0.80	-1.74	0.00	-8.88	0.00	8.88	317.71	95.31	3734.62	52.28	107.46	-10.187	0.000	0.173
140.00	-0.64	-1.22	0.00	-7.14	0.00	7.14	317.71	95.31	3734.62	52.28	109.59	-10.243	0.000	0.139
141.00	-0.60	-1.11	0.00	-5.92	0.00	5.92	317.71	95.31	3734.62	52.28	111.73	-10.289	0.000	0.115
142.00	-0.55	-1.00	0.00	-4.81	0.00	4.81	317.71	95.31	3734.62	52.28	113.88	-10.327	0.000	0.094
143.00	-0.51	-0.89	0.00	-3.80	0.00	3.80	317.71	95.31	3734.62	52.28	116.03	-10.358	0.000	0.074
144.00	-0.47	-0.78	0.00	-2.91	0.00	2.91	317.71	95.31	3734.62	52.28	118.19	-10.381	0.000	0.057
145.00	-0.20	-0.63	0.00	-2.13	0.00	2.13	317.71	95.31	3734.62	52.28	120.36	-10.399	0.000	0.041
146.00	-0.17	-0.53	0.00	-1.49	0.00	1.49	317.71	95.31	3734.62	52.28	122.53	-10.412	0.000	0.029
147.00	-0.15	-0.42	0.00	-0.97	0.00	0.97	317.71	95.31	3734.62	52.28	124.70	-10.421	0.000	0.019
148.00	-0.12	-0.31	0.00	-0.55	0.00	0.55	317.71	95.31	3734.62	52.28	126.87	-10.426	0.000	0.011
149.00	-0.09	-0.20	0.00	-0.24	0.00	0.24	317.71	95.31	3734.62	52.28	129.04	-10.429	0.000	0.005
150.00	0.00	-0.18	0.00	-0.04	0.00	0.04	317.71	95.31	3734.62	52.28	131.21	-10.430	0.000	0.001

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

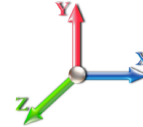


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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 43

Dead Load Factor 0.90
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	0.85	31.628	34.79	342.12	0.600	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
2.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
3.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
4.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
5.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
6.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
7.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
8.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
9.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
10.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
11.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
12.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
13.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
14.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
15.00		1.00	0.85	31.628	34.79	342.12	0.600	0.000	1.00	3.000	1.80	62.6	0.0	128.5
16.00		1.00	0.86	32.018	35.22	344.22	0.600	0.000	1.00	3.000	1.80	63.4	0.0	128.5
17.00		1.00	0.87	32.429	35.67	346.43	0.600	0.000	1.00	3.000	1.80	64.2	0.0	128.5
18.00		1.00	0.88	32.822	36.10	348.52	0.600	0.000	1.00	3.000	1.80	65.0	0.0	128.5
19.00		1.00	0.89	33.198	36.52	350.50	0.600	0.000	1.00	3.000	1.80	65.7	0.0	128.5
20.00	Top - Section 1	1.00	0.90	33.558	36.91	352.40	0.600	0.000	1.00	3.000	1.80	66.4	0.0	128.5
21.00		1.00	0.91	33.905	37.30	295.18	0.600	0.000	1.00	2.500	1.50	55.9	0.0	106.9
22.00		1.00	0.92	34.238	37.66	296.63	0.600	0.000	1.00	2.500	1.50	56.5	0.0	106.9
23.00		1.00	0.93	34.560	38.02	298.02	0.600	0.000	1.00	2.500	1.50	57.0	0.0	106.9
24.00		1.00	0.94	34.871	38.36	299.36	0.600	0.000	1.00	2.500	1.50	57.5	0.0	106.9
25.00		1.00	0.95	35.172	38.69	300.65	0.600	0.000	1.00	2.500	1.50	58.0	0.0	106.9
26.00		1.00	0.95	35.464	39.01	301.89	0.600	0.000	1.00	2.500	1.50	58.5	0.0	106.9
27.00		1.00	0.96	35.747	39.32	303.09	0.600	0.000	1.00	2.500	1.50	59.0	0.0	106.9
28.00		1.00	0.97	36.022	39.62	304.26	0.600	0.000	1.00	2.500	1.50	59.4	0.0	106.9
29.00		1.00	0.98	36.289	39.92	305.38	0.600	0.000	1.00	2.500	1.50	59.9	0.0	106.9
30.00		1.00	0.98	36.549	40.20	306.47	0.600	0.000	1.00	2.500	1.50	60.3	0.0	106.9
31.00		1.00	0.99	36.802	40.48	307.53	0.600	0.000	1.00	2.500	1.50	60.7	0.0	106.9
32.00		1.00	1.00	37.049	40.75	308.56	0.600	0.000	1.00	2.500	1.50	61.1	0.0	106.9
33.00		1.00	1.00	37.289	41.02	309.56	0.600	0.000	1.00	2.500	1.50	61.5	0.0	106.9
34.00		1.00	1.01	37.524	41.28	310.54	0.600	0.000	1.00	2.500	1.50	61.9	0.0	106.9
35.00		1.00	1.01	37.754	41.53	311.49	0.600	0.000	1.00	2.500	1.50	62.3	0.0	106.9
36.00		1.00	1.02	37.979	41.78	312.41	0.600	0.000	1.00	2.500	1.50	62.7	0.0	106.9
37.00		1.00	1.03	38.198	42.02	313.31	0.600	0.000	1.00	2.500	1.50	63.0	0.0	106.9
38.00		1.00	1.03	38.413	42.25	314.20	0.600	0.000	1.00	2.500	1.50	63.4	0.0	106.9
39.00		1.00	1.04	38.624	42.49	315.06	0.600	0.000	1.00	2.500	1.50	63.7	0.0	106.9
40.00		1.00	1.04	38.831	42.71	315.90	0.600	0.000	1.00	2.500	1.50	64.1	0.0	106.9
41.00		1.00	1.05	39.033	42.94	316.72	0.600	0.000	1.00	2.500	1.50	64.4	0.0	106.9
42.00		1.00	1.05	39.231	43.15	317.52	0.600	0.000	1.00	2.500	1.50	64.7	0.0	106.9
43.00		1.00	1.06	39.426	43.37	318.31	0.600	0.000	1.00	2.500	1.50	65.1	0.0	106.9
44.00		1.00	1.06	39.618	43.58	319.08	0.600	0.000	1.00	2.500	1.50	65.4	0.0	106.9
45.00		1.00	1.07	39.805	43.79	319.84	0.600	0.000	1.00	2.500	1.50	65.7	0.0	106.9
46.00		1.00	1.07	39.990	43.99	320.58	0.600	0.000	1.00	2.500	1.50	66.0	0.0	106.9

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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47.00	1.00	1.08	40.172	44.19	321.30	0.600	0.000	1.00	2.500	1.50	66.3	0.0	106.9	
48.00	1.00	1.08	40.350	44.38	322.02	0.600	0.000	1.00	2.500	1.50	66.6	0.0	106.9	
49.00	1.00	1.09	40.526	44.58	322.72	0.600	0.000	1.00	2.500	1.50	66.9	0.0	106.9	
50.00	Top - Section 2	1.00	1.09	40.698	44.77	323.40	0.600	0.000	1.00	2.500	1.50	67.2	0.0	106.9
51.00	1.00	1.10	40.868	44.96	259.26	0.600	0.000	1.00	2.000	1.20	53.9	0.0	85.2	
52.00	1.00	1.10	41.036	45.14	259.79	0.600	0.000	1.00	2.000	1.20	54.2	0.0	85.2	
53.00	1.00	1.11	41.201	45.32	260.32	0.600	0.000	1.00	2.000	1.20	54.4	0.0	85.2	
54.00	1.00	1.11	41.363	45.50	260.83	0.600	0.000	1.00	2.000	1.20	54.6	0.0	85.2	
55.00	1.00	1.12	41.523	45.68	261.33	0.600	0.000	1.00	2.000	1.20	54.8	0.0	85.2	
56.00	1.00	1.12	41.681	45.85	261.83	0.600	0.000	1.00	2.000	1.20	55.0	0.0	85.2	
57.00	1.00	1.12	41.837	46.02	262.32	0.600	0.000	1.00	2.000	1.20	55.2	0.0	85.2	
58.00	1.00	1.13	41.990	46.19	262.80	0.600	0.000	1.00	2.000	1.20	55.4	0.0	85.2	
59.00	1.00	1.13	42.141	46.36	263.27	0.600	0.000	1.00	2.000	1.20	55.6	0.0	85.2	
60.00	1.00	1.14	42.291	46.52	263.74	0.600	0.000	1.00	2.000	1.20	55.8	0.0	85.2	
61.00	1.00	1.14	42.438	46.68	264.20	0.600	0.000	1.00	2.000	1.20	56.0	0.0	85.2	
62.00	1.00	1.14	42.584	46.84	264.65	0.600	0.000	1.00	2.000	1.20	56.2	0.0	85.2	
63.00	1.00	1.15	42.727	47.00	265.09	0.600	0.000	1.00	2.000	1.20	56.4	0.0	85.2	
64.00	1.00	1.15	42.869	47.16	265.53	0.600	0.000	1.00	2.000	1.20	56.6	0.0	85.2	
65.00	1.00	1.16	43.009	47.31	265.97	0.600	0.000	1.00	2.000	1.20	56.8	0.0	85.2	
66.00	1.00	1.16	43.148	47.46	266.40	0.600	0.000	1.00	2.000	1.20	57.0	0.0	85.2	
67.00	1.00	1.16	43.285	47.61	266.82	0.600	0.000	1.00	2.000	1.20	57.1	0.0	85.2	
68.00	1.00	1.17	43.420	47.76	267.23	0.600	0.000	1.00	2.000	1.20	57.3	0.0	85.2	
69.00	1.00	1.17	43.554	47.91	267.65	0.600	0.000	1.00	2.000	1.20	57.5	0.0	85.2	
70.00	1.00	1.17	43.686	48.05	268.05	0.600	0.000	1.00	2.000	1.20	57.7	0.0	85.2	
71.00	1.00	1.18	43.816	48.20	268.45	0.600	0.000	1.00	2.000	1.20	57.8	0.0	85.2	
72.00	1.00	1.18	43.946	48.34	268.85	0.600	0.000	1.00	2.000	1.20	58.0	0.0	85.2	
73.00	1.00	1.18	44.073	48.48	269.24	0.600	0.000	1.00	2.000	1.20	58.2	0.0	85.2	
74.00	1.00	1.19	44.200	48.62	269.62	0.600	0.000	1.00	2.000	1.20	58.3	0.0	85.2	
75.00	Appurtenance(s)	1.00	1.19	44.325	48.76	270.01	0.600	0.000	1.00	2.000	1.20	58.5	0.0	85.2
76.00	1.00	1.19	44.449	48.89	270.38	0.600	0.000	1.00	2.000	1.20	58.7	0.0	85.2	
77.00	1.00	1.20	44.571	49.03	270.75	0.600	0.000	1.00	2.000	1.20	58.8	0.0	85.2	
78.00	1.00	1.20	44.692	49.16	271.12	0.600	0.000	1.00	2.000	1.20	59.0	0.0	85.2	
79.00	1.00	1.20	44.812	49.29	271.49	0.600	0.000	1.00	2.000	1.20	59.2	0.0	85.2	
80.00	Top - Section 3	1.00	1.21	44.931	49.42	271.85	0.600	0.000	1.00	2.000	1.20	59.3	0.0	85.2
81.00	1.00	1.21	45.049	49.55	272.20	0.600	0.000	1.00	2.000	1.20	59.5	0.0	85.2	
82.00	1.00	1.21	45.165	49.68	272.55	0.600	0.000	1.00	2.000	1.20	59.6	0.0	85.2	
83.00	1.00	1.22	45.281	49.81	272.90	0.600	0.000	1.00	2.000	1.20	59.8	0.0	85.2	
84.00	1.00	1.22	45.395	49.93	273.25	0.600	0.000	1.00	2.000	1.20	59.9	0.0	85.2	
85.00	1.00	1.22	45.508	50.06	273.59	0.600	0.000	1.00	2.000	1.20	60.1	0.0	85.2	
86.00	1.00	1.23	45.621	50.18	273.92	0.600	0.000	1.00	2.000	1.20	60.2	0.0	85.2	
87.00	1.00	1.23	45.732	50.30	274.26	0.600	0.000	1.00	2.000	1.20	60.4	0.0	85.2	
88.00	1.00	1.23	45.842	50.43	274.59	0.600	0.000	1.00	2.000	1.20	60.5	0.0	85.2	
89.00	1.00	1.23	45.951	50.55	274.91	0.600	0.000	1.00	2.000	1.20	60.7	0.0	85.2	
90.00	1.00	1.24	46.059	50.67	275.24	0.600	0.000	1.00	2.000	1.20	60.8	0.0	85.2	
91.00	1.00	1.24	46.167	50.78	275.56	0.600	0.000	1.00	2.000	1.20	60.9	0.0	85.2	
92.00	1.00	1.24	46.273	50.90	275.87	0.600	0.000	1.00	2.000	1.20	61.1	0.0	85.2	
93.00	1.00	1.25	46.378	51.02	276.19	0.600	0.000	1.00	2.000	1.20	61.2	0.0	85.2	
94.00	1.00	1.25	46.483	51.13	276.50	0.600	0.000	1.00	2.000	1.20	61.4	0.0	85.2	
95.00	1.00	1.25	46.587	51.25	276.81	0.600	0.000	1.00	2.000	1.20	61.5	0.0	85.2	
96.00	1.00	1.25	46.689	51.36	277.11	0.600	0.000	1.00	2.000	1.20	61.6	0.0	85.2	
97.00	1.00	1.26	46.791	51.47	277.42	0.600	0.000	1.00	2.000	1.20	61.8	0.0	85.2	
98.00	1.00	1.26	46.892	51.58	277.72	0.600	0.000	1.00	2.000	1.20	61.9	0.0	85.2	
99.00	1.00	1.26	46.993	51.69	278.01	0.600	0.000	1.00	2.000	1.20	62.0	0.0	85.2	
100.00	1.00	1.27	47.092	51.80	278.31	0.600	0.000	1.00	2.000	1.20	62.2	0.0	85.2	
101.00	1.00	1.27	47.191	51.91	278.60	0.600	0.000	1.00	2.000	1.20	62.3	0.0	85.2	
102.00	1.00	1.27	47.289	52.02	278.89	0.600	0.000	1.00	2.000	1.20	62.4	0.0	85.2	
103.00	1.00	1.27	47.386	52.12	279.17	0.600	0.000	1.00	2.000	1.20	62.5	0.0	85.2	

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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104.00	1.00	1.28	47.483	52.23	279.46	0.600	0.000	1.00	2.000	1.20	62.7	0.0	85.2
105.00	1.00	1.28	47.579	52.34	279.74	0.600	0.000	1.00	2.000	1.20	62.8	0.0	85.2
106.00	1.00	1.28	47.674	52.44	280.02	0.600	0.000	1.00	2.000	1.20	62.9	0.0	85.2
107.00	1.00	1.28	47.768	52.54	280.30	0.600	0.000	1.00	2.000	1.20	63.1	0.0	85.2
108.00 Top - Section 4	1.00	1.29	47.862	52.65	280.57	0.600	0.000	1.00	2.000	1.20	63.2	0.0	85.2
109.00	1.00	1.29	47.955	52.75	421.26	0.600	0.000	1.00	3.000	1.80	94.9	0.0	93.9
110.00 Top - Section 5 RB1	1.00	1.29	48.047	52.85	421.67	0.600	0.000	1.00	3.000	1.80	95.1	0.0	93.9
111.00	1.00	1.29	48.138	52.95	422.07	0.600	0.000	1.00	3.000	1.80	95.3	0.0	64.0
111.50 RT1	1.00	1.29	48.184	53.00	422.27	0.600	0.000	0.50	1.500	0.90	47.7	0.0	32.0
112.00	1.00	1.30	48.229	53.05	422.47	0.600	0.000	0.50	1.500	0.90	47.7	0.0	32.0
113.00	1.00	1.30	48.320	53.15	422.87	0.600	0.000	1.00	3.000	1.80	95.7	0.0	64.0
114.00	1.00	1.30	48.409	53.25	423.26	0.600	0.000	1.00	3.000	1.80	95.9	0.0	64.0
115.00 Appurtenance(s)	1.00	1.30	48.499	53.35	423.65	0.600	0.000	1.00	3.000	1.80	96.0	0.0	64.0
116.00	1.00	1.31	48.587	53.45	424.03	0.600	0.000	1.00	3.000	1.80	96.2	0.0	64.0
117.00	1.00	1.31	48.675	53.54	424.42	0.600	0.000	1.00	3.000	1.80	96.4	0.0	64.0
118.00	1.00	1.31	48.762	53.64	424.80	0.600	0.000	1.00	3.000	1.80	96.5	0.0	64.0
119.00	1.00	1.31	48.849	53.73	425.17	0.600	0.000	1.00	3.000	1.80	96.7	0.0	64.0
120.00 Appurtenance(s)	1.00	1.32	48.935	53.83	425.55	0.600	0.000	1.00	3.000	1.80	96.9	0.0	64.0
121.00	1.00	1.32	49.021	53.92	425.92	0.600	0.000	1.00	3.000	1.80	97.1	0.0	64.0
122.00	1.00	1.32	49.106	54.02	426.29	0.600	0.000	1.00	3.000	1.80	97.2	0.0	64.0
123.00	1.00	1.32	49.190	54.11	426.66	0.600	0.000	1.00	3.000	1.80	97.4	0.0	64.0
124.00	1.00	1.32	49.274	54.20	427.02	0.600	0.000	1.00	3.000	1.80	97.6	0.0	64.0
125.00	1.00	1.33	49.357	54.29	427.38	0.600	0.000	1.00	3.000	1.80	97.7	0.0	64.0
126.00	1.00	1.33	49.440	54.38	427.74	0.600	0.000	1.00	3.000	1.80	97.9	0.0	64.0
127.00 Appurtenance(s)	1.00	1.33	49.523	54.47	428.10	0.600	0.000	1.00	3.000	1.80	98.1	0.0	64.0
128.00	1.00	1.33	49.604	54.56	428.45	0.600	0.000	1.00	3.000	1.80	98.2	0.0	64.0
129.00	1.00	1.34	49.686	54.65	428.80	0.600	0.000	1.00	3.000	1.80	98.4	0.0	64.0
130.00 Top - Section 6	1.00	1.34	49.767	54.74	429.15	0.600	0.000	1.00	3.000	1.80	98.5	0.0	64.0
131.00	1.00	1.34	49.847	54.83	429.50	0.600	0.000	1.00	3.000	1.80	98.7	0.0	34.4
132.00	1.00	1.34	49.927	54.92	429.84	0.600	0.000	1.00	3.000	1.80	98.9	0.0	34.4
133.00	1.00	1.34	50.006	55.01	430.18	0.600	0.000	1.00	3.000	1.80	99.0	0.0	34.4
134.00	1.00	1.35	50.085	55.09	430.52	0.600	0.000	1.00	3.000	1.80	99.2	0.0	34.4
135.00 Appurtenance(s)	1.00	1.35	50.164	55.18	430.86	0.600	0.000	1.00	3.000	1.80	99.3	0.0	34.4
136.00	1.00	1.35	50.242	55.27	431.19	0.600	0.000	1.00	3.000	1.80	99.5	0.0	34.4
137.00	1.00	1.35	50.319	55.35	431.53	0.600	0.000	1.00	3.000	1.80	99.6	0.0	34.4
138.00	1.00	1.35	50.396	55.44	431.86	0.600	0.000	1.00	3.000	1.80	99.8	0.0	34.4
139.00	1.00	1.36	50.473	55.52	432.18	0.600	0.000	1.00	3.000	1.80	99.9	0.0	34.4
140.00 Appurtenance(s)	1.00	1.36	50.549	55.60	432.51	0.600	0.000	1.00	3.000	1.80	100.1	0.0	34.4
141.00	1.00	1.36	50.625	55.69	432.83	0.600	0.000	1.00	3.000	1.80	100.2	0.0	34.4
142.00	1.00	1.36	50.700	55.77	433.16	0.600	0.000	1.00	3.000	1.80	100.4	0.0	34.4
143.00	1.00	1.36	50.775	55.85	433.48	0.600	0.000	1.00	3.000	1.80	100.5	0.0	34.4
144.00	1.00	1.37	50.850	55.93	433.79	0.600	0.000	1.00	3.000	1.80	100.7	0.0	34.4
145.00 Appurtenance(s)	1.00	1.37	50.924	56.02	434.11	0.600	0.000	1.00	3.000	1.80	100.8	0.0	34.4
146.00	1.00	1.37	50.998	56.10	434.43	0.600	0.000	1.00	3.000	1.80	101.0	0.0	34.4
147.00	1.00	1.37	51.071	56.18	434.74	0.600	0.000	1.00	3.000	1.80	101.1	0.0	34.4
148.00	1.00	1.37	51.144	56.26	435.05	0.600	0.000	1.00	3.000	1.80	101.3	0.0	34.4
149.00	1.00	1.38	51.217	56.34	435.36	0.600	0.000	1.00	3.000	1.80	101.4	0.0	34.4
150.00 Appurtenance(s)	1.00	1.38	51.289	56.42	435.66	0.600	0.000	1.00	3.000	1.80	101.6	0.0	34.4
Totals:								150.00			10,683.3		12,875.5

Discrete Appurtenance Forces

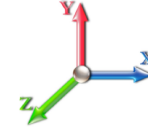
Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 43

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor 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	150.00	36" Canister Weight	1	51.289	56.418	1.00	1.00	0.00	58.11	0.000	0.000	0.00	0.00	0.00
2	150.00	Truck Ball	1	51.325	56.457	1.00	1.00	1.41	4.50	0.000	0.500	79.60	0.00	39.80
3	145.00	CDX623T-DS	6	50.924	56.016	0.00	1.00	0.00	54.54	0.000	0.000	0.00	0.00	0.00
4	145.00	FFVV-65B-R3	3	50.924	56.016	0.00	1.00	0.00	118.26	0.000	0.000	0.00	0.00	0.00
5	140.00	36" Canister Weight	1	50.549	55.604	1.00	1.00	0.00	116.23	0.000	0.000	0.00	0.00	0.00
6	140.00	Flag	1	50.549	55.604	1.00	1.00	6.89	22.50	0.000	0.000	383.11	0.00	0.00
7	135.00	Flush Mount	1	50.164	55.180	0.00	1.00	0.00	22.50	0.000	0.000	0.00	0.00	0.00
8	135.00	DB-T1-6Z-8AB-0Z	2	50.164	55.180	0.00	1.00	0.00	34.02	0.000	0.000	0.00	0.00	0.00
9	135.00	FDL85002/1C-3L	6	50.164	55.180	0.00	1.00	0.00	37.80	0.000	0.000	0.00	0.00	0.00
10	135.00	SBNHH-1D65A	3	50.164	55.180	0.00	1.00	0.00	90.45	0.000	0.000	0.00	0.00	0.00
11	130.00	36" Canister Weight	1	49.767	54.743	1.00	1.00	0.00	116.23	0.000	0.000	0.00	0.00	0.00
12	127.00	Flush Mount	1	49.523	54.475	0.00	1.00	0.00	22.50	0.000	0.000	0.00	0.00	0.00
13	127.00	ATSBT-TOP-FM	3	49.523	54.475	0.00	1.00	0.00	4.86	0.000	0.000	0.00	0.00	0.00
14	127.00	CBC426T-DS-43	6	49.523	54.475	0.00	1.00	0.00	39.42	0.000	0.000	0.00	0.00	0.00
15	127.00	D2WC-21 (2LB+4MB)	3	49.523	54.475	0.00	1.00	0.00	83.43	0.000	0.000	0.00	0.00	0.00
16	120.00	36" Canister Weight	1	48.935	53.829	1.00	1.00	0.00	116.23	0.000	0.000	0.00	0.00	0.00
17	115.00	Flush Mount	1	48.499	53.348	0.00	1.00	0.00	22.50	0.000	0.000	0.00	0.00	0.00
18	115.00	Kaleus	6	48.499	53.348	0.00	1.00	0.00	123.12	0.000	0.000	0.00	0.00	0.00
19	115.00	800372965	3	48.499	53.348	0.00	1.00	0.00	201.15	0.000	0.000	0.00	0.00	0.00
20	110.00	36" Canister Weight	1	48.047	52.851	1.00	1.00	0.00	69.73	0.000	0.000	0.00	0.00	0.00
21	108.00	36" Canister Weight	1	47.862	52.648	1.00	1.00	0.00	11.62	0.000	0.000	0.00	0.00	0.00
22	75.00	GPS	1	44.325	48.757	0.80	0.80	0.80	9.00	0.000	0.000	39.01	0.00	0.00
Totals:									1,378.69			501.72		

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

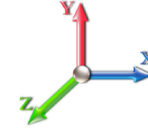


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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 43

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
1.00		62.62	160.73	0.00	0.00
2.00		62.62	160.73	0.00	0.00
3.00		62.62	160.73	0.00	0.00
4.00		62.62	160.73	0.00	0.00
5.00		62.62	160.73	0.00	0.00
6.00		62.62	160.73	0.00	0.00
7.00		62.62	160.73	0.00	0.00
8.00		62.62	160.73	0.00	0.00
9.00		62.62	160.73	0.00	0.00
10.00		62.62	160.73	0.00	0.00
11.00		62.62	160.73	0.00	0.00
12.00		62.62	160.73	0.00	0.00
13.00		62.62	160.73	0.00	0.00
14.00		62.62	160.73	0.00	0.00
15.00		62.62	160.73	0.00	0.00
16.00		63.40	160.73	0.00	0.00
17.00		64.21	160.73	0.00	0.00
18.00		64.99	160.73	0.00	0.00
19.00		65.73	160.73	0.00	0.00
20.00		66.45	160.73	0.00	0.00
21.00		55.94	139.09	0.00	0.00
22.00		56.49	139.09	0.00	0.00
23.00		57.02	139.09	0.00	0.00
24.00		57.54	139.09	0.00	0.00
25.00		58.03	139.09	0.00	0.00
26.00		58.52	139.09	0.00	0.00
27.00		58.98	139.09	0.00	0.00
28.00		59.44	139.09	0.00	0.00
29.00		59.88	139.09	0.00	0.00
30.00		60.31	139.09	0.00	0.00
31.00		60.72	139.09	0.00	0.00
32.00		61.13	139.09	0.00	0.00
33.00		61.53	139.09	0.00	0.00
34.00		61.92	139.09	0.00	0.00
35.00		62.29	139.09	0.00	0.00
36.00		62.66	139.09	0.00	0.00
37.00		63.03	139.09	0.00	0.00
38.00		63.38	139.09	0.00	0.00
39.00		63.73	139.09	0.00	0.00
40.00		64.07	139.09	0.00	0.00
41.00		64.40	139.09	0.00	0.00
42.00		64.73	139.09	0.00	0.00
43.00		65.05	139.09	0.00	0.00
44.00		65.37	139.09	0.00	0.00
45.00		65.68	139.09	0.00	0.00
46.00		65.98	139.09	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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47.00	66.28	139.09	0.00	0.00
48.00	66.58	139.09	0.00	0.00
49.00	66.87	139.09	0.00	0.00
50.00	67.15	139.09	0.00	0.00
51.00	53.95	117.44	0.00	0.00
52.00	54.17	117.44	0.00	0.00
53.00	54.38	117.44	0.00	0.00
54.00	54.60	117.44	0.00	0.00
55.00	54.81	117.44	0.00	0.00
56.00	55.02	117.44	0.00	0.00
57.00	55.22	117.44	0.00	0.00
58.00	55.43	117.44	0.00	0.00
59.00	55.63	117.44	0.00	0.00
60.00	55.82	117.44	0.00	0.00
61.00	56.02	117.44	0.00	0.00
62.00	56.21	117.44	0.00	0.00
63.00	56.40	117.44	0.00	0.00
64.00	56.59	117.44	0.00	0.00
65.00	56.77	117.44	0.00	0.00
66.00	56.96	117.44	0.00	0.00
67.00	57.14	117.44	0.00	0.00
68.00	57.31	117.44	0.00	0.00
69.00	57.49	117.44	0.00	0.00
70.00	57.67	117.44	0.00	0.00
71.00	57.84	117.44	0.00	0.00
72.00	58.01	117.44	0.00	0.00
73.00	58.18	117.44	0.00	0.00
74.00	58.34	117.44	0.00	0.00
75.00	(1) attachments	97.51	126.44	0.00
76.00		58.67	117.30	0.00
77.00		58.83	117.30	0.00
78.00		58.99	117.30	0.00
79.00		59.15	117.30	0.00
80.00		59.31	117.30	0.00
81.00		59.46	117.30	0.00
82.00		59.62	117.30	0.00
83.00		59.77	117.30	0.00
84.00		59.92	117.30	0.00
85.00		60.07	117.30	0.00
86.00		60.22	117.30	0.00
87.00		60.37	117.30	0.00
88.00		60.51	117.30	0.00
89.00		60.66	117.30	0.00
90.00		60.80	117.30	0.00
91.00		60.94	117.30	0.00
92.00		61.08	117.30	0.00
93.00		61.22	117.30	0.00
94.00		61.36	117.30	0.00
95.00		61.49	117.30	0.00
96.00		61.63	117.30	0.00
97.00		61.76	117.30	0.00
98.00		61.90	117.30	0.00
99.00		62.03	117.30	0.00
100.00		62.16	117.30	0.00
101.00		62.29	117.30	0.00
102.00		62.42	117.30	0.00
103.00		62.55	117.30	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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104.00	62.68	117.30	0.00	0.00
105.00	62.80	117.30	0.00	0.00
106.00	62.93	117.30	0.00	0.00
107.00	63.05	117.30	0.00	0.00
108.00	(1) attachments 63.18	128.91	0.00	0.00
109.00	94.95	125.94	0.00	0.00
110.00	(1) attachments 95.13	195.67	0.00	0.00
111.00	95.31	96.02	0.00	0.00
111.50	47.70	48.01	0.00	0.00
112.00	47.75	48.01	0.00	0.00
113.00	95.67	96.02	0.00	0.00
114.00	95.85	96.02	0.00	0.00
115.00	(10) attachments 96.03	442.79	0.00	0.00
116.00	96.20	90.40	0.00	0.00
117.00	96.38	90.40	0.00	0.00
118.00	96.55	90.40	0.00	0.00
119.00	96.72	90.40	0.00	0.00
120.00	(1) attachments 96.89	206.63	0.00	0.00
121.00	97.06	90.40	0.00	0.00
122.00	97.23	90.40	0.00	0.00
123.00	97.40	90.40	0.00	0.00
124.00	97.56	90.40	0.00	0.00
125.00	97.73	90.40	0.00	0.00
126.00	97.89	90.40	0.00	0.00
127.00	(13) attachments 98.05	240.61	0.00	0.00
128.00	98.22	82.36	0.00	0.00
129.00	98.38	82.36	0.00	0.00
130.00	(1) attachments 98.54	198.58	0.00	0.00
131.00	98.70	52.78	0.00	0.00
132.00	98.86	52.78	0.00	0.00
133.00	99.01	52.78	0.00	0.00
134.00	99.17	52.78	0.00	0.00
135.00	(12) attachments 99.32	237.55	0.00	0.00
136.00	99.48	45.61	0.00	0.00
137.00	99.63	45.61	0.00	0.00
138.00	99.78	45.61	0.00	0.00
139.00	99.94	45.61	0.00	0.00
140.00	(2) attachments 483.20	184.34	0.00	0.00
141.00	100.24	45.61	0.00	0.00
142.00	100.39	45.61	0.00	0.00
143.00	100.54	45.61	0.00	0.00
144.00	100.68	45.61	0.00	0.00
145.00	(9) attachments 100.83	218.41	0.00	0.00
146.00	100.98	34.38	0.00	0.00
147.00	101.12	34.38	0.00	0.00
148.00	101.27	34.38	0.00	0.00
149.00	101.41	34.38	0.00	0.00
150.00	(2) attachments 181.16	96.99	0.00	39.80
Totals:	11,185.00	18,528.48	0.00	39.80

Linear Appurtenance Segment Forces (Factored)

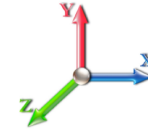
Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 43

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)
18.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	32.822	0.00	0.00
19.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	33.198	0.00	0.00
20.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	33.558	0.00	0.00
21.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	33.905	0.00	0.00
22.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	34.238	0.00	0.00
23.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	34.560	0.00	0.00
Totals:											0.0	0.0

Calculated Forces

Structure: CT04374-S-SBA
Site Name: Central Hebron
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

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

7/5/2023
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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 43

Dead Load Factor 0.90
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	-18.52	-11.19	0.00	-1007.6	0.00	1007.67	1490.10	475.94	99948.2	1339.68	0.00	0.000	0.000	0.765
1.00	-18.36	-11.14	0.00	-996.48	0.00	996.48	1490.10	475.94	99948.2	1339.68	0.00	-0.043	0.000	0.757
2.00	-18.19	-11.09	0.00	-985.34	0.00	985.34	1490.10	475.94	99948.2	1339.68	0.02	-0.085	0.000	0.748
3.00	-18.02	-11.04	0.00	-974.24	0.00	974.24	1490.10	475.94	99948.2	1339.68	0.04	-0.127	0.000	0.740
4.00	-17.85	-10.99	0.00	-963.20	0.00	963.20	1490.10	475.94	99948.2	1339.68	0.07	-0.168	0.000	0.731
5.00	-17.68	-10.94	0.00	-952.21	0.00	952.21	1490.10	475.94	99948.2	1339.68	0.11	-0.209	0.000	0.723
6.00	-17.51	-10.89	0.00	-941.26	0.00	941.26	1490.10	475.94	99948.2	1339.68	0.16	-0.250	0.000	0.715
7.00	-17.35	-10.84	0.00	-930.37	0.00	930.37	1490.10	475.94	99948.2	1339.68	0.22	-0.290	0.000	0.707
8.00	-17.18	-10.79	0.00	-919.53	0.00	919.53	1490.10	475.94	99948.2	1339.68	0.28	-0.329	0.000	0.698
9.00	-17.01	-10.74	0.00	-908.75	0.00	908.75	1490.10	475.94	99948.2	1339.68	0.35	-0.368	0.000	0.690
10.00	-16.84	-10.68	0.00	-898.01	0.00	898.01	1490.10	475.94	99948.2	1339.68	0.44	-0.407	0.000	0.682
11.00	-16.67	-10.63	0.00	-887.33	0.00	887.33	1490.10	475.94	99948.2	1339.68	0.53	-0.445	0.000	0.674
12.00	-16.51	-10.58	0.00	-876.70	0.00	876.70	1490.10	475.94	99948.2	1339.68	0.62	-0.482	0.000	0.666
13.00	-16.34	-10.52	0.00	-866.12	0.00	866.12	1490.10	475.94	99948.2	1339.68	0.73	-0.520	0.000	0.658
14.00	-16.17	-10.47	0.00	-855.59	0.00	855.59	1490.10	475.94	99948.2	1339.68	0.84	-0.556	0.000	0.650
15.00	-16.01	-10.42	0.00	-845.12	0.00	845.12	1490.10	475.94	99948.2	1339.68	0.96	-0.593	0.000	0.642
16.00	-15.84	-10.36	0.00	-834.71	0.00	834.71	1490.10	475.94	99948.2	1339.68	1.09	-0.629	0.000	0.634
17.00	-15.67	-10.30	0.00	-824.35	0.00	824.35	1490.10	475.94	99948.2	1339.68	1.23	-0.664	0.000	0.626
18.00	-15.51	-10.25	0.00	-814.04	0.00	814.04	1490.10	475.94	99948.2	1339.68	1.37	-0.699	0.000	0.619
19.00	-15.34	-10.19	0.00	-803.79	0.00	803.79	1490.10	475.94	99948.2	1339.68	1.52	-0.733	0.000	0.611
20.00	-15.18	-10.13	0.00	-793.60	0.00	793.60	1490.10	475.94	99948.2	1339.68	1.68	-0.768	0.000	0.603
20.00	-15.18	-10.13	0.00	-793.60	0.00	793.60	1311.06	395.78	69116.5	948.43	1.68	-0.768	0.000	0.849
21.00	-15.03	-10.08	0.00	-783.48	0.00	783.48	1311.06	395.78	69116.5	948.43	1.84	-0.801	0.000	0.838
22.00	-14.88	-10.04	0.00	-773.39	0.00	773.39	1311.06	395.78	69116.5	948.43	2.01	-0.859	0.000	0.827
23.00	-14.73	-10.00	0.00	-763.35	0.00	763.35	1311.06	395.78	69116.5	948.43	2.20	-0.916	0.000	0.817
24.00	-14.59	-9.95	0.00	-753.36	0.00	753.36	1311.06	395.78	69116.5	948.43	2.40	-0.972	0.000	0.806
25.00	-14.44	-9.90	0.00	-743.41	0.00	743.41	1311.06	395.78	69116.5	948.43	2.61	-1.028	0.000	0.795
26.00	-14.29	-9.86	0.00	-733.51	0.00	733.51	1311.06	395.78	69116.5	948.43	2.83	-1.083	0.000	0.785
27.00	-14.14	-9.81	0.00	-723.65	0.00	723.65	1311.06	395.78	69116.5	948.43	3.06	-1.137	0.000	0.774
28.00	-14.00	-9.76	0.00	-713.84	0.00	713.84	1311.06	395.78	69116.5	948.43	3.31	-1.190	0.000	0.764
29.00	-13.85	-9.71	0.00	-704.09	0.00	704.09	1311.06	395.78	69116.5	948.43	3.56	-1.243	0.000	0.754
30.00	-13.70	-9.66	0.00	-694.38	0.00	694.38	1311.06	395.78	69116.5	948.43	3.83	-1.295	0.000	0.743
31.00	-13.56	-9.60	0.00	-684.72	0.00	684.72	1311.06	395.78	69116.5	948.43	4.10	-1.346	0.000	0.733
32.00	-13.41	-9.55	0.00	-675.12	0.00	675.12	1311.06	395.78	69116.5	948.43	4.39	-1.397	0.000	0.723
33.00	-13.27	-9.50	0.00	-665.56	0.00	665.56	1311.06	395.78	69116.5	948.43	4.69	-1.446	0.000	0.712
34.00	-13.12	-9.44	0.00	-656.07	0.00	656.07	1311.06	395.78	69116.5	948.43	5.00	-1.495	0.000	0.702
35.00	-12.98	-9.39	0.00	-646.62	0.00	646.62	1311.06	395.78	69116.5	948.43	5.32	-1.544	0.000	0.692
36.00	-12.83	-9.33	0.00	-637.23	0.00	637.23	1311.06	395.78	69116.5	948.43	5.64	-1.591	0.000	0.682
37.00	-12.69	-9.28	0.00	-627.90	0.00	627.90	1311.06	395.78	69116.5	948.43	5.98	-1.638	0.000	0.672
38.00	-12.54	-9.22	0.00	-618.62	0.00	618.62	1311.06	395.78	69116.5	948.43	6.33	-1.685	0.000	0.662
39.00	-12.40	-9.16	0.00	-609.40	0.00	609.40	1311.06	395.78	69116.5	948.43	6.69	-1.730	0.000	0.653
40.00	-12.25	-9.10	0.00	-600.24	0.00	600.24	1311.06	395.78	69116.5	948.43	7.06	-1.775	0.000	0.643
41.00	-12.11	-9.04	0.00	-591.14	0.00	591.14	1311.06	395.78	69116.5	948.43	7.43	-1.819	0.000	0.633
42.00	-11.96	-8.98	0.00	-582.10	0.00	582.10	1311.06	395.78	69116.5	948.43	7.82	-1.863	0.000	0.623
43.00	-11.82	-8.92	0.00	-573.11	0.00	573.11	1311.06	395.78	69116.5	948.43	8.21	-1.906	0.000	0.614
44.00	-11.68	-8.86	0.00	-564.19	0.00	564.19	1311.06	395.78	69116.5	948.43	8.62	-1.948	0.000	0.604
45.00	-11.54	-8.80	0.00	-555.33	0.00	555.33	1311.06	395.78	69116.5	948.43	9.03	-1.990	0.000	0.595
46.00	-11.39	-8.74	0.00	-546.53	0.00	546.53	1311.06	395.78	69116.5	948.43	9.45	-2.030	0.000	0.585

Calculated Forces

Structure: CT04374-S-SBA
Site Name: Central Hebron
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

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

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47.00	-11.25	-8.67	0.00	-537.80	0.00	537.80	1311.06	395.78	69116.5	948.43	9.88	-2.071	0.000	0.576
48.00	-11.11	-8.61	0.00	-529.13	0.00	529.13	1311.06	395.78	69116.5	948.43	10.32	-2.110	0.000	0.567
49.00	-10.96	-8.54	0.00	-520.52	0.00	520.52	1311.06	395.78	69116.5	948.43	10.76	-2.149	0.000	0.558
50.00	-10.82	-8.48	0.00	-511.97	0.00	511.97	1311.06	395.78	69116.5	948.43	11.22	-2.188	0.000	0.549
50.00	-10.82	-8.48	0.00	-511.97	0.00	511.97	1052.07	315.62	43955.0	624.04	11.22	-2.188	0.000	0.831
51.00	-10.70	-8.43	0.00	-503.49	0.00	503.49	1052.07	315.62	43955.0	624.04	11.68	-2.225	0.000	0.818
52.00	-10.57	-8.39	0.00	-495.06	0.00	495.06	1052.07	315.62	43955.0	624.04	12.15	-2.298	0.000	0.804
53.00	-10.45	-8.34	0.00	-486.68	0.00	486.68	1052.07	315.62	43955.0	624.04	12.64	-2.370	0.000	0.791
54.00	-10.32	-8.29	0.00	-478.34	0.00	478.34	1052.07	315.62	43955.0	624.04	13.15	-2.441	0.000	0.777
55.00	-10.20	-8.24	0.00	-470.05	0.00	470.05	1052.07	315.62	43955.0	624.04	13.67	-2.510	0.000	0.764
56.00	-10.07	-8.20	0.00	-461.80	0.00	461.80	1052.07	315.62	43955.0	624.04	14.20	-2.579	0.000	0.750
57.00	-9.95	-8.15	0.00	-453.61	0.00	453.61	1052.07	315.62	43955.0	624.04	14.75	-2.646	0.000	0.737
58.00	-9.83	-8.10	0.00	-445.46	0.00	445.46	1052.07	315.62	43955.0	624.04	15.31	-2.711	0.000	0.724
59.00	-9.70	-8.05	0.00	-437.36	0.00	437.36	1052.07	315.62	43955.0	624.04	15.88	-2.776	0.000	0.711
60.00	-9.58	-8.00	0.00	-429.31	0.00	429.31	1052.07	315.62	43955.0	624.04	16.47	-2.839	0.000	0.698
61.00	-9.46	-7.94	0.00	-421.32	0.00	421.32	1052.07	315.62	43955.0	624.04	17.07	-2.902	0.000	0.685
62.00	-9.33	-7.89	0.00	-413.37	0.00	413.37	1052.07	315.62	43955.0	624.04	17.69	-2.963	0.000	0.672
63.00	-9.21	-7.84	0.00	-405.48	0.00	405.48	1052.07	315.62	43955.0	624.04	18.31	-3.023	0.000	0.659
64.00	-9.09	-7.79	0.00	-397.64	0.00	397.64	1052.07	315.62	43955.0	624.04	18.95	-3.082	0.000	0.646
65.00	-8.97	-7.73	0.00	-389.86	0.00	389.86	1052.07	315.62	43955.0	624.04	19.60	-3.139	0.000	0.634
66.00	-8.84	-7.68	0.00	-382.12	0.00	382.12	1052.07	315.62	43955.0	624.04	20.27	-3.196	0.000	0.621
67.00	-8.72	-7.62	0.00	-374.45	0.00	374.45	1052.07	315.62	43955.0	624.04	20.94	-3.251	0.000	0.609
68.00	-8.60	-7.57	0.00	-366.82	0.00	366.82	1052.07	315.62	43955.0	624.04	21.63	-3.305	0.000	0.597
69.00	-8.48	-7.51	0.00	-359.26	0.00	359.26	1052.07	315.62	43955.0	624.04	22.32	-3.359	0.000	0.584
70.00	-8.36	-7.45	0.00	-351.75	0.00	351.75	1052.07	315.62	43955.0	624.04	23.03	-3.411	0.000	0.572
71.00	-8.24	-7.40	0.00	-344.30	0.00	344.30	1052.07	315.62	43955.0	624.04	23.75	-3.462	0.000	0.560
72.00	-8.12	-7.34	0.00	-336.90	0.00	336.90	1052.07	315.62	43955.0	624.04	24.48	-3.511	0.000	0.548
73.00	-8.00	-7.28	0.00	-329.56	0.00	329.56	1052.07	315.62	43955.0	624.04	25.22	-3.560	0.000	0.536
74.00	-7.88	-7.22	0.00	-322.29	0.00	322.29	1052.07	315.62	43955.0	624.04	25.97	-3.608	0.000	0.524
75.00	-7.76	-7.12	0.00	-315.07	0.00	315.07	1052.07	315.62	43955.0	624.04	26.73	-3.655	0.000	0.513
76.00	-7.64	-7.06	0.00	-307.95	0.00	307.95	1052.07	315.62	43955.0	624.04	27.50	-3.700	0.000	0.501
77.00	-7.52	-7.00	0.00	-300.89	0.00	300.89	1052.07	315.62	43955.0	624.04	28.28	-3.745	0.000	0.490
78.00	-7.40	-6.94	0.00	-293.89	0.00	293.89	1052.07	315.62	43955.0	624.04	29.07	-3.788	0.000	0.478
79.00	-7.28	-6.88	0.00	-286.95	0.00	286.95	1052.07	315.62	43955.0	624.04	29.87	-3.831	0.000	0.467
80.00	-7.16	-6.82	0.00	-280.07	0.00	280.07	1052.07	315.62	43955.0	624.04	30.68	-3.872	0.000	0.456
80.00	-7.16	-6.82	0.00	-280.07	0.00	280.07	1052.07	315.62	43955.0	624.04	30.68	-3.872	0.000	0.456
81.00	-7.05	-6.75	0.00	-273.26	0.00	273.26	1052.07	315.62	43955.0	624.04	31.49	-3.913	0.000	0.445
82.00	-6.93	-6.69	0.00	-266.50	0.00	266.50	1052.07	315.62	43955.0	624.04	32.31	-3.952	0.000	0.434
83.00	-6.81	-6.63	0.00	-259.81	0.00	259.81	1052.07	315.62	43955.0	624.04	33.14	-3.991	0.000	0.423
84.00	-6.69	-6.56	0.00	-253.19	0.00	253.19	1052.07	315.62	43955.0	624.04	33.98	-4.028	0.000	0.413
85.00	-6.58	-6.50	0.00	-246.62	0.00	246.62	1052.07	315.62	43955.0	624.04	34.83	-4.065	0.000	0.402
86.00	-6.46	-6.43	0.00	-240.12	0.00	240.12	1052.07	315.62	43955.0	624.04	35.69	-4.101	0.000	0.391
87.00	-6.34	-6.37	0.00	-233.69	0.00	233.69	1052.07	315.62	43955.0	624.04	36.55	-4.135	0.000	0.381
88.00	-6.23	-6.30	0.00	-227.32	0.00	227.32	1052.07	315.62	43955.0	624.04	37.42	-4.169	0.000	0.371
89.00	-6.11	-6.24	0.00	-221.01	0.00	221.01	1052.07	315.62	43955.0	624.04	38.29	-4.202	0.000	0.360
90.00	-6.00	-6.17	0.00	-214.78	0.00	214.78	1052.07	315.62	43955.0	624.04	39.18	-4.234	0.000	0.350
91.00	-5.88	-6.11	0.00	-208.60	0.00	208.60	1052.07	315.62	43955.0	624.04	40.06	-4.265	0.000	0.340
92.00	-5.76	-6.04	0.00	-202.50	0.00	202.50	1052.07	315.62	43955.0	624.04	40.96	-4.295	0.000	0.330
93.00	-5.65	-5.97	0.00	-196.46	0.00	196.46	1052.07	315.62	43955.0	624.04	41.86	-4.324	0.000	0.321
94.00	-5.53	-5.91	0.00	-190.48	0.00	190.48	1052.07	315.62	43955.0	624.04	42.77	-4.352	0.000	0.311
95.00	-5.42	-5.84	0.00	-184.58	0.00	184.58	1052.07	315.62	43955.0	624.04	43.68	-4.380	0.000	0.301
96.00	-5.30	-5.77	0.00	-178.74	0.00	178.74	1052.07	315.62	43955.0	624.04	44.60	-4.406	0.000	0.292
97.00	-5.19	-5.70	0.00	-172.97	0.00	172.97	1052.07	315.62	43955.0	624.04	45.53	-4.432	0.000	0.282
98.00	-5.07	-5.63	0.00	-167.27	0.00	167.27	1052.07	315.62	43955.0	624.04	46.46	-4.457	0.000	0.273
99.00	-4.96	-5.56	0.00	-161.63	0.00	161.63	1052.07	315.62	43955.0	624.04	47.39	-4.481	0.000	0.264
100.00	-4.85	-5.49	0.00	-156.07	0.00	156.07	1052.07	315.62	43955.0	624.04	48.33	-4.504	0.000	0.255
101.00	-4.73	-5.43	0.00	-150.58	0.00	150.58	1052.07	315.62	43955.0	624.04	49.28	-4.527	0.000	0.246

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 31



102.00	-4.62	-5.36	0.00	-145.15	0.00	145.15	1052.07	315.62	43955.0	624.04	50.23	-4.548	0.000	0.237
103.00	-4.50	-5.29	0.00	-139.79	0.00	139.79	1052.07	315.62	43955.0	624.04	51.18	-4.569	0.000	0.229
104.00	-4.39	-5.22	0.00	-134.51	0.00	134.51	1052.07	315.62	43955.0	624.04	52.14	-4.589	0.000	0.220
105.00	-4.28	-5.14	0.00	-129.29	0.00	129.29	1052.07	315.62	43955.0	624.04	53.10	-4.609	0.000	0.212
106.00	-4.16	-5.07	0.00	-124.15	0.00	124.15	1052.07	315.62	43955.0	624.04	54.07	-4.627	0.000	0.203
107.00	-4.05	-5.00	0.00	-119.07	0.00	119.07	1052.07	315.62	43955.0	624.04	55.04	-4.645	0.000	0.195
108.00	-3.93	-4.93	0.00	-114.07	0.00	114.07	1052.07	315.62	43955.0	624.04	56.01	-4.662	0.000	0.187
108.00	-3.93	-4.93	0.00	-114.07	0.00	114.07	1052.07	315.62	43955.0	624.04	56.01	-4.662	0.000	0.187
109.00	-3.81	-4.83	0.00	-109.14	0.00	109.14	1052.07	315.62	43955.0	624.04	56.99	-4.678	0.000	0.179
110.00	-3.62	-4.72	0.00	-104.31	0.00	104.31	1052.07	315.62	43955.0	624.04	57.97	-4.694	0.000	0.166
110.00	-3.62	-4.72	0.00	-104.31	0.00	104.31	682.83	204.85	11780.8	105.20	57.97	-4.694	0.000	0.027
111.00	-3.53	-4.62	0.00	-99.60	0.00	99.60	682.83	204.85	11780.8	105.20	58.95	-4.703	0.000	0.256
111.50	-3.48	-4.57	0.00	-97.29	0.00	97.29	682.83	204.85	11780.8	105.20	59.45	-4.753	0.000	0.250
111.50	-3.48	-4.57	0.00	-97.29	0.00	97.29	682.83	204.85	11780.8	105.20	59.45	-4.753	0.000	0.668
112.00	-3.42	-4.53	0.00	-95.01	0.00	95.01	682.83	204.85	11780.8	105.20	59.95	-4.802	0.000	0.909
113.00	-3.31	-4.44	0.00	-90.48	0.00	90.48	682.83	204.85	11780.8	105.20	60.99	-5.155	0.000	0.865
114.00	-3.19	-4.36	0.00	-86.04	0.00	86.04	682.83	204.85	11780.8	105.20	62.10	-5.491	0.000	0.823
115.00	-2.74	-4.23	0.00	-81.68	0.00	81.68	682.83	204.85	11780.8	105.20	63.29	-5.810	0.000	0.781
116.00	-2.64	-4.14	0.00	-77.44	0.00	77.44	682.83	204.85	11780.8	105.20	64.53	-6.113	0.000	0.740
117.00	-2.54	-4.05	0.00	-73.30	0.00	73.30	682.83	204.85	11780.8	105.20	65.84	-6.400	0.000	0.701
118.00	-2.44	-3.95	0.00	-69.25	0.00	69.25	682.83	204.85	11780.8	105.20	67.21	-6.672	0.000	0.662
119.00	-2.35	-3.86	0.00	-65.30	0.00	65.30	682.83	204.85	11780.8	105.20	68.63	-6.928	0.000	0.625
120.00	-2.14	-3.74	0.00	-61.44	0.00	61.44	682.83	204.85	11780.8	105.20	70.10	-7.169	0.000	0.588
121.00	-2.05	-3.65	0.00	-57.70	0.00	57.70	682.83	204.85	11780.8	105.20	71.62	-7.396	0.000	0.552
122.00	-1.96	-3.54	0.00	-54.05	0.00	54.05	682.83	204.85	11780.8	105.20	73.19	-7.609	0.000	0.517
123.00	-1.87	-3.44	0.00	-50.51	0.00	50.51	682.83	204.85	11780.8	105.20	74.80	-7.808	0.000	0.483
124.00	-1.78	-3.34	0.00	-47.07	0.00	47.07	682.83	204.85	11780.8	105.20	76.45	-7.994	0.000	0.450
125.00	-1.70	-3.23	0.00	-43.73	0.00	43.73	682.83	204.85	11780.8	105.20	78.14	-8.167	0.000	0.418
126.00	-1.61	-3.13	0.00	-40.49	0.00	40.49	682.83	204.85	11780.8	105.20	79.86	-8.327	0.000	0.388
127.00	-1.38	-3.00	0.00	-37.37	0.00	37.37	682.83	204.85	11780.8	105.20	81.61	-8.475	0.000	0.357
128.00	-1.31	-2.89	0.00	-34.37	0.00	34.37	682.83	204.85	11780.8	105.20	83.40	-8.612	0.000	0.329
129.00	-1.24	-2.79	0.00	-31.47	0.00	31.47	682.83	204.85	11780.8	105.20	85.21	-8.737	0.000	0.301
130.00	-1.05	-2.66	0.00	-28.69	0.00	28.69	682.83	204.85	11780.8	105.20	87.04	-8.852	0.000	0.274
130.00	-1.05	-2.66	0.00	-28.69	0.00	28.69	317.71	95.31	3734.62	52.28	87.04	-8.852	0.000	0.553
131.00	-1.01	-2.56	0.00	-26.03	0.00	26.03	317.71	95.31	3734.62	52.28	88.90	-8.956	0.000	0.502
132.00	-0.96	-2.45	0.00	-23.47	0.00	23.47	317.71	95.31	3734.62	52.28	90.79	-9.131	0.000	0.453
133.00	-0.92	-2.35	0.00	-21.02	0.00	21.02	317.71	95.31	3734.62	52.28	92.71	-9.287	0.000	0.406
134.00	-0.88	-2.25	0.00	-18.67	0.00	18.67	317.71	95.31	3734.62	52.28	94.66	-9.427	0.000	0.360
135.00	-0.66	-2.11	0.00	-16.42	0.00	16.42	317.71	95.31	3734.62	52.28	96.64	-9.551	0.000	0.317
136.00	-0.63	-2.01	0.00	-14.31	0.00	14.31	317.71	95.31	3734.62	52.28	98.64	-9.660	0.000	0.276
137.00	-0.60	-1.90	0.00	-12.30	0.00	12.30	317.71	95.31	3734.62	52.28	100.66	-9.753	0.000	0.238
138.00	-0.57	-1.80	0.00	-10.40	0.00	10.40	317.71	95.31	3734.62	52.28	102.70	-9.834	0.000	0.201
139.00	-0.54	-1.69	0.00	-8.61	0.00	8.61	317.71	95.31	3734.62	52.28	104.76	-9.901	0.000	0.167
140.00	-0.44	-1.18	0.00	-6.92	0.00	6.92	317.71	95.31	3734.62	52.28	106.83	-9.955	0.000	0.134
141.00	-0.41	-1.08	0.00	-5.74	0.00	5.74	317.71	95.31	3734.62	52.28	108.91	-10.000	0.000	0.111
142.00	-0.38	-0.97	0.00	-4.66	0.00	4.66	317.71	95.31	3734.62	52.28	111.00	-10.037	0.000	0.090
143.00	-0.35	-0.86	0.00	-3.69	0.00	3.69	317.71	95.31	3734.62	52.28	113.09	-10.066	0.000	0.072
144.00	-0.33	-0.76	0.00	-2.83	0.00	2.83	317.71	95.31	3734.62	52.28	115.19	-10.089	0.000	0.055
145.00	-0.13	-0.62	0.00	-2.07	0.00	2.07	317.71	95.31	3734.62	52.28	117.30	-10.106	0.000	0.040
146.00	-0.11	-0.51	0.00	-1.46	0.00	1.46	317.71	95.31	3734.62	52.28	119.40	-10.119	0.000	0.028
147.00	-0.10	-0.41	0.00	-0.94	0.00	0.94	317.71	95.31	3734.62	52.28	121.51	-10.127	0.000	0.018
148.00	-0.08	-0.30	0.00	-0.54	0.00	0.54	317.71	95.31	3734.62	52.28	123.62	-10.133	0.000	0.011
149.00	-0.06	-0.20	0.00	-0.24	0.00	0.24	317.71	95.31	3734.62	52.28	125.74	-10.135	0.000	0.005
150.00	0.00	-0.18	0.00	-0.04	0.00	0.04	317.71	95.31	3734.62	52.28	127.85	-10.136	0.000	0.001

Wind Loading - Shaft

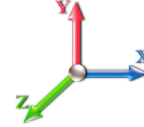
Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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

Iterations 43

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	0.85	5.060	5.57	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.85	5.060	5.57	0.00	1.200	0.705	1.00	3.117	3.74	20.8	31.6	203.0
2.00		1.00	0.85	5.060	5.57	0.00	1.200	0.756	1.00	3.126	3.75	20.9	33.9	205.3
3.00		1.00	0.85	5.060	5.57	0.00	1.200	0.787	1.00	3.131	3.76	20.9	35.4	206.7
4.00		1.00	0.85	5.060	5.57	0.00	1.200	0.810	1.00	3.135	3.76	20.9	36.4	207.8
5.00		1.00	0.85	5.060	5.57	0.00	1.200	0.828	1.00	3.138	3.77	21.0	37.3	208.6
6.00		1.00	0.85	5.060	5.57	0.00	1.200	0.843	1.00	3.141	3.77	21.0	38.0	209.3
7.00		1.00	0.85	5.060	5.57	0.00	1.200	0.856	1.00	3.143	3.77	21.0	38.6	209.9
8.00		1.00	0.85	5.060	5.57	0.00	1.200	0.868	1.00	3.145	3.77	21.0	39.1	210.5
9.00		1.00	0.85	5.060	5.57	0.00	1.200	0.878	1.00	3.146	3.78	21.0	39.6	210.9
10.00		1.00	0.85	5.060	5.57	0.00	1.200	0.887	1.00	3.148	3.78	21.0	40.0	211.4
11.00		1.00	0.85	5.060	5.57	0.00	1.200	0.896	1.00	3.149	3.78	21.0	40.4	211.8
12.00		1.00	0.85	5.060	5.57	0.00	1.200	0.904	1.00	3.151	3.78	21.0	40.7	212.1
13.00		1.00	0.85	5.060	5.57	0.00	1.200	0.911	1.00	3.152	3.78	21.1	41.1	212.5
14.00		1.00	0.85	5.060	5.57	0.00	1.200	0.918	1.00	3.153	3.78	21.1	41.4	212.8
15.00		1.00	0.85	5.060	5.57	0.00	1.200	0.924	1.00	3.154	3.78	21.1	41.7	213.1
16.00		1.00	0.86	5.123	5.64	0.00	1.200	0.930	1.00	3.155	3.79	21.3	42.0	213.3
17.00		1.00	0.87	5.189	5.71	0.00	1.200	0.936	1.00	3.156	3.79	21.6	42.2	213.6
18.00		1.00	0.88	5.252	5.78	0.00	1.200	0.941	1.00	3.157	3.79	21.9	42.5	213.9
19.00		1.00	0.89	5.312	5.84	0.00	1.200	0.946	1.00	3.158	3.79	22.1	42.7	214.1
20.00	Top - Section 1	1.00	0.90	5.369	5.91	0.00	1.200	0.951	1.00	3.159	3.79	22.4	42.9	214.3
21.00		1.00	0.91	5.425	5.97	0.00	1.200	0.956	1.00	2.659	3.19	19.0	36.1	178.7
22.00		1.00	0.92	5.478	6.03	0.00	1.200	0.960	1.00	2.660	3.19	19.2	36.3	178.8
23.00		1.00	0.93	5.530	6.08	0.00	1.200	0.965	1.00	2.661	3.19	19.4	36.5	179.0
24.00		1.00	0.94	5.579	6.14	0.00	1.200	0.969	1.00	2.661	3.19	19.6	36.6	179.2
25.00		1.00	0.95	5.628	6.19	0.00	1.200	0.973	1.00	2.662	3.19	19.8	36.8	179.3
26.00		1.00	0.95	5.674	6.24	0.00	1.200	0.976	1.00	2.663	3.20	19.9	37.0	179.5
27.00		1.00	0.96	5.719	6.29	0.00	1.200	0.980	1.00	2.663	3.20	20.1	37.1	179.6
28.00		1.00	0.97	5.763	6.34	0.00	1.200	0.984	1.00	2.664	3.20	20.3	37.2	179.7
29.00		1.00	0.98	5.806	6.39	0.00	1.200	0.987	1.00	2.665	3.20	20.4	37.4	179.9
30.00		1.00	0.98	5.848	6.43	0.00	1.200	0.991	1.00	2.665	3.20	20.6	37.5	180.0
31.00		1.00	0.99	5.888	6.48	0.00	1.200	0.994	1.00	2.666	3.20	20.7	37.6	180.1
32.00		1.00	1.00	5.928	6.52	0.00	1.200	0.997	1.00	2.666	3.20	20.9	37.8	180.3
33.00		1.00	1.00	5.966	6.56	0.00	1.200	1.000	1.00	2.667	3.20	21.0	37.9	180.4
34.00		1.00	1.01	6.004	6.60	0.00	1.200	1.003	1.00	2.667	3.20	21.1	38.0	180.5
35.00		1.00	1.01	6.041	6.64	0.00	1.200	1.006	1.00	2.668	3.20	21.3	38.1	180.6
36.00		1.00	1.02	6.077	6.68	0.00	1.200	1.009	1.00	2.668	3.20	21.4	38.2	180.7
37.00		1.00	1.03	6.112	6.72	0.00	1.200	1.012	1.00	2.669	3.20	21.5	38.3	180.8
38.00		1.00	1.03	6.146	6.76	0.00	1.200	1.014	1.00	2.669	3.20	21.7	38.4	180.9
39.00		1.00	1.04	6.180	6.80	0.00	1.200	1.017	1.00	2.669	3.20	21.8	38.5	181.0
40.00		1.00	1.04	6.213	6.83	0.00	1.200	1.019	1.00	2.670	3.20	21.9	38.6	181.1
41.00		1.00	1.05	6.245	6.87	0.00	1.200	1.022	1.00	2.670	3.20	22.0	38.7	181.2
42.00		1.00	1.05	6.277	6.90	0.00	1.200	1.024	1.00	2.671	3.20	22.1	38.8	181.3
43.00		1.00	1.06	6.308	6.94	0.00	1.200	1.027	1.00	2.671	3.21	22.2	38.9	181.4
44.00		1.00	1.06	6.339	6.97	0.00	1.200	1.029	1.00	2.672	3.21	22.4	39.0	181.5
45.00		1.00	1.07	6.369	7.01	0.00	1.200	1.032	1.00	2.672	3.21	22.5	39.1	181.6
46.00		1.00	1.07	6.398	7.04	0.00	1.200	1.034	1.00	2.672	3.21	22.6	39.2	181.7

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



47.00	1.00	1.08	6.427	7.07	0.00	1.200	1.036	1.00	2.673	3.21	22.7	39.3	181.8	
48.00	1.00	1.08	6.456	7.10	0.00	1.200	1.038	1.00	2.673	3.21	22.8	39.4	181.9	
49.00	1.00	1.09	6.484	7.13	0.00	1.200	1.040	1.00	2.673	3.21	22.9	39.5	182.0	
50.00	Top - Section 2	1.00	1.09	6.512	7.16	0.00	1.200	1.042	1.00	2.674	3.21	23.0	39.5	182.0
51.00	1.00	1.10	6.539	7.19	0.00	1.200	1.044	1.00	2.174	2.61	18.8	32.0	145.6	
52.00	1.00	1.10	6.566	7.22	0.00	1.200	1.047	1.00	2.174	2.61	18.8	32.0	145.7	
53.00	1.00	1.11	6.592	7.25	0.00	1.200	1.049	1.00	2.175	2.61	18.9	32.1	145.7	
54.00	1.00	1.11	6.618	7.28	0.00	1.200	1.050	1.00	2.175	2.61	19.0	32.1	145.8	
55.00	1.00	1.12	6.644	7.31	0.00	1.200	1.052	1.00	2.175	2.61	19.1	32.2	145.9	
56.00	1.00	1.12	6.669	7.34	0.00	1.200	1.054	1.00	2.176	2.61	19.2	32.3	145.9	
57.00	1.00	1.12	6.694	7.36	0.00	1.200	1.056	1.00	2.176	2.61	19.2	32.3	146.0	
58.00	1.00	1.13	6.718	7.39	0.00	1.200	1.058	1.00	2.176	2.61	19.3	32.4	146.0	
59.00	1.00	1.13	6.743	7.42	0.00	1.200	1.060	1.00	2.177	2.61	19.4	32.4	146.1	
60.00	1.00	1.14	6.767	7.44	0.00	1.200	1.062	1.00	2.177	2.61	19.4	32.5	146.2	
61.00	1.00	1.14	6.790	7.47	0.00	1.200	1.063	1.00	2.177	2.61	19.5	32.6	146.2	
62.00	1.00	1.14	6.813	7.49	0.00	1.200	1.065	1.00	2.178	2.61	19.6	32.6	146.3	
63.00	1.00	1.15	6.836	7.52	0.00	1.200	1.067	1.00	2.178	2.61	19.7	32.7	146.3	
64.00	1.00	1.15	6.859	7.54	0.00	1.200	1.068	1.00	2.178	2.61	19.7	32.7	146.4	
65.00	1.00	1.16	6.882	7.57	0.00	1.200	1.070	1.00	2.178	2.61	19.8	32.8	146.4	
66.00	1.00	1.16	6.904	7.59	0.00	1.200	1.072	1.00	2.179	2.61	19.9	32.8	146.5	
67.00	1.00	1.16	6.926	7.62	0.00	1.200	1.073	1.00	2.179	2.61	19.9	32.9	146.5	
68.00	1.00	1.17	6.947	7.64	0.00	1.200	1.075	1.00	2.179	2.61	20.0	32.9	146.6	
69.00	1.00	1.17	6.969	7.67	0.00	1.200	1.077	1.00	2.179	2.62	20.0	33.0	146.6	
70.00	1.00	1.17	6.990	7.69	0.00	1.200	1.078	1.00	2.180	2.62	20.1	33.0	146.7	
71.00	1.00	1.18	7.011	7.71	0.00	1.200	1.080	1.00	2.180	2.62	20.2	33.1	146.7	
72.00	1.00	1.18	7.031	7.73	0.00	1.200	1.081	1.00	2.180	2.62	20.2	33.1	146.8	
73.00	1.00	1.18	7.052	7.76	0.00	1.200	1.083	1.00	2.180	2.62	20.3	33.2	146.8	
74.00	1.00	1.19	7.072	7.78	0.00	1.200	1.084	1.00	2.181	2.62	20.4	33.2	146.9	
75.00	Appurtenance(s)	1.00	1.19	7.092	7.80	0.00	1.200	1.086	1.00	2.181	2.62	20.4	33.3	146.9
76.00	1.00	1.19	7.112	7.82	0.00	1.200	1.087	1.00	2.181	2.62	20.5	33.3	147.0	
77.00	1.00	1.20	7.131	7.84	0.00	1.200	1.088	1.00	2.181	2.62	20.5	33.4	147.0	
78.00	1.00	1.20	7.151	7.87	0.00	1.200	1.090	1.00	2.182	2.62	20.6	33.4	147.1	
79.00	1.00	1.20	7.170	7.89	0.00	1.200	1.091	1.00	2.182	2.62	20.7	33.5	147.1	
80.00	Top - Section 3	1.00	1.21	7.189	7.91	0.00	1.200	1.093	1.00	2.182	2.62	20.7	33.5	147.1
81.00	1.00	1.21	7.208	7.93	0.00	1.200	1.094	1.00	2.182	2.62	20.8	33.5	147.2	
82.00	1.00	1.21	7.226	7.95	0.00	1.200	1.095	1.00	2.183	2.62	20.8	33.6	147.2	
83.00	1.00	1.22	7.245	7.97	0.00	1.200	1.097	1.00	2.183	2.62	20.9	33.6	147.3	
84.00	1.00	1.22	7.263	7.99	0.00	1.200	1.098	1.00	2.183	2.62	20.9	33.7	147.3	
85.00	1.00	1.22	7.281	8.01	0.00	1.200	1.099	1.00	2.183	2.62	21.0	33.7	147.4	
86.00	1.00	1.23	7.299	8.03	0.00	1.200	1.101	1.00	2.183	2.62	21.0	33.7	147.4	
87.00	1.00	1.23	7.317	8.05	0.00	1.200	1.102	1.00	2.184	2.62	21.1	33.8	147.4	
88.00	1.00	1.23	7.335	8.07	0.00	1.200	1.103	1.00	2.184	2.62	21.1	33.8	147.5	
89.00	1.00	1.23	7.352	8.09	0.00	1.200	1.104	1.00	2.184	2.62	21.2	33.9	147.5	
90.00	1.00	1.24	7.369	8.11	0.00	1.200	1.106	1.00	2.184	2.62	21.2	33.9	147.6	
91.00	1.00	1.24	7.387	8.13	0.00	1.200	1.107	1.00	2.184	2.62	21.3	33.9	147.6	
92.00	1.00	1.24	7.404	8.14	0.00	1.200	1.108	1.00	2.185	2.62	21.4	34.0	147.6	
93.00	1.00	1.25	7.421	8.16	0.00	1.200	1.109	1.00	2.185	2.62	21.4	34.0	147.7	
94.00	1.00	1.25	7.437	8.18	0.00	1.200	1.110	1.00	2.185	2.62	21.5	34.1	147.7	
95.00	1.00	1.25	7.454	8.20	0.00	1.200	1.112	1.00	2.185	2.62	21.5	34.1	147.8	
96.00	1.00	1.25	7.470	8.22	0.00	1.200	1.113	1.00	2.185	2.62	21.6	34.1	147.8	
97.00	1.00	1.26	7.487	8.24	0.00	1.200	1.114	1.00	2.186	2.62	21.6	34.2	147.8	
98.00	1.00	1.26	7.503	8.25	0.00	1.200	1.115	1.00	2.186	2.62	21.6	34.2	147.9	
99.00	1.00	1.26	7.519	8.27	0.00	1.200	1.116	1.00	2.186	2.62	21.7	34.2	147.9	
100.00	1.00	1.27	7.535	8.29	0.00	1.200	1.117	1.00	2.186	2.62	21.7	34.3	147.9	
101.00	1.00	1.27	7.551	8.31	0.00	1.200	1.118	1.00	2.186	2.62	21.8	34.3	148.0	
102.00	1.00	1.27	7.566	8.32	0.00	1.200	1.119	1.00	2.187	2.62	21.8	34.4	148.0	
103.00	1.00	1.27	7.582	8.34	0.00	1.200	1.121	1.00	2.187	2.62	21.9	34.4	148.0	

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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104.00	1.00	1.28	7.597	8.36	0.00	1.200	1.122	1.00	2.187	2.62	21.9	34.4	148.1
105.00	1.00	1.28	7.613	8.37	0.00	1.200	1.123	1.00	2.187	2.62	22.0	34.5	148.1
106.00	1.00	1.28	7.628	8.39	0.00	1.200	1.124	1.00	2.187	2.62	22.0	34.5	148.1
107.00	1.00	1.28	7.643	8.41	0.00	1.200	1.125	1.00	2.187	2.62	22.1	34.5	148.2
108.00 Top - Section 4	1.00	1.29	7.658	8.42	0.00	1.200	1.126	1.00	2.188	2.63	22.1	34.6	148.2
109.00	1.00	1.29	7.673	8.44	0.00	1.200	1.127	1.00	3.000	3.60	30.4	84.3	209.5
110.00 Top - Section 5 RB1	1.00	1.29	7.687	8.46	0.00	1.200	1.128	1.00	3.000	3.60	30.4	84.3	209.5
111.00	1.00	1.29	7.702	8.47	0.00	1.200	1.129	1.00	3.000	3.60	30.5	84.3	209.5
111.50 RT1	1.00	1.29	7.709	8.48	0.00	1.200	1.129	0.50	1.500	1.80	15.3	30.3	72.9
112.00	1.00	1.30	7.717	8.49	0.00	1.200	1.130	0.50	1.500	1.80	15.3	30.3	72.9
113.00	1.00	1.30	7.731	8.50	0.00	1.200	1.131	1.00	3.000	3.60	30.6	60.6	145.9
114.00	1.00	1.30	7.746	8.52	0.00	1.200	1.132	1.00	3.000	3.60	30.7	60.6	145.9
115.00 Appurtenance(s)	1.00	1.30	7.760	8.54	0.00	1.200	1.133	1.00	3.000	3.60	30.7	60.6	145.9
116.00	1.00	1.31	7.774	8.55	0.00	1.200	1.134	1.00	3.000	3.60	30.8	60.6	145.9
117.00	1.00	1.31	7.788	8.57	0.00	1.200	1.135	1.00	3.000	3.60	30.8	60.6	145.9
118.00	1.00	1.31	7.802	8.58	0.00	1.200	1.136	1.00	3.000	3.60	30.9	60.6	145.9
119.00	1.00	1.31	7.816	8.60	0.00	1.200	1.137	1.00	3.000	3.60	31.0	60.6	145.9
120.00 Appurtenance(s)	1.00	1.32	7.830	8.61	0.00	1.200	1.138	1.00	3.000	3.60	31.0	60.7	145.9
121.00	1.00	1.32	7.843	8.63	0.00	1.200	1.139	1.00	3.000	3.60	31.1	60.7	145.9
122.00	1.00	1.32	7.857	8.64	0.00	1.200	1.140	1.00	3.000	3.60	31.1	60.7	146.0
123.00	1.00	1.32	7.870	8.66	0.00	1.200	1.141	1.00	3.000	3.60	31.2	60.7	146.0
124.00	1.00	1.32	7.884	8.67	0.00	1.200	1.142	1.00	3.000	3.60	31.2	60.7	146.0
125.00	1.00	1.33	7.897	8.69	0.00	1.200	1.142	1.00	3.000	3.60	31.3	60.7	146.0
126.00	1.00	1.33	7.910	8.70	0.00	1.200	1.143	1.00	3.000	3.60	31.3	60.7	146.0
127.00 Appurtenance(s)	1.00	1.33	7.924	8.72	0.00	1.200	1.144	1.00	3.000	3.60	31.4	60.7	146.0
128.00	1.00	1.33	7.937	8.73	0.00	1.200	1.145	1.00	3.000	3.60	31.4	60.7	146.0
129.00	1.00	1.34	7.950	8.74	0.00	1.200	1.146	1.00	3.000	3.60	31.5	60.7	146.0
130.00 Top - Section 6	1.00	1.34	7.963	8.76	0.00	1.200	1.147	1.00	3.000	3.60	31.5	60.8	146.0
131.00	1.00	1.34	7.976	8.77	0.00	1.200	1.148	1.00	3.000	3.60	31.6	60.6	106.4
132.00	1.00	1.34	7.988	8.79	0.00	1.200	1.149	1.00	3.000	3.60	31.6	60.6	106.4
133.00	1.00	1.34	8.001	8.80	0.00	1.200	1.150	1.00	3.000	3.60	31.7	60.6	106.4
134.00	1.00	1.35	8.014	8.81	0.00	1.200	1.150	1.00	3.000	3.60	31.7	60.6	106.5
135.00 Appurtenance(s)	1.00	1.35	8.026	8.83	0.00	1.200	1.151	1.00	3.000	3.60	31.8	60.6	106.5
136.00	1.00	1.35	8.039	8.84	0.00	1.200	1.152	1.00	3.000	3.60	31.8	60.6	106.5
137.00	1.00	1.35	8.051	8.86	0.00	1.200	1.153	1.00	3.000	3.60	31.9	60.6	106.5
138.00	1.00	1.35	8.063	8.87	0.00	1.200	1.154	1.00	3.000	3.60	31.9	60.7	106.5
139.00	1.00	1.36	8.076	8.88	0.00	1.200	1.155	1.00	3.000	3.60	32.0	60.7	106.5
140.00 Appurtenance(s)	1.00	1.36	8.088	8.90	0.00	1.200	1.155	1.00	3.000	3.60	32.0	60.7	106.5
141.00	1.00	1.36	8.100	8.91	0.00	1.200	1.156	1.00	3.000	3.60	32.1	60.7	106.5
142.00	1.00	1.36	8.112	8.92	0.00	1.200	1.157	1.00	3.000	3.60	32.1	60.7	106.5
143.00	1.00	1.36	8.124	8.94	0.00	1.200	1.158	1.00	3.000	3.60	32.2	60.7	106.5
144.00	1.00	1.37	8.136	8.95	0.00	1.200	1.159	1.00	3.000	3.60	32.2	60.7	106.5
145.00 Appurtenance(s)	1.00	1.37	8.148	8.96	0.00	1.200	1.160	1.00	3.000	3.60	32.3	60.7	106.6
146.00	1.00	1.37	8.160	8.98	0.00	1.200	1.160	1.00	3.000	3.60	32.3	60.7	106.6
147.00	1.00	1.37	8.171	8.99	0.00	1.200	1.161	1.00	3.000	3.60	32.4	60.7	106.6
148.00	1.00	1.37	8.183	9.00	0.00	1.200	1.162	1.00	3.000	3.60	32.4	60.7	106.6
149.00	1.00	1.38	8.195	9.01	0.00	1.200	1.163	1.00	3.000	3.60	32.5	60.8	106.6
150.00 Appurtenance(s)	1.00	1.38	8.206	9.03	0.00	1.200	1.163	1.00	3.000	3.60	32.5	60.8	106.6
Totals:							150.00					3,577.9	23,628.8

Discrete Appurtenance Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

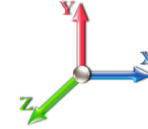


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 43

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor 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	150.00	36" Canister Weight	1	8.206	9.027	1.00	1.00	0.00	77.63	0.000	0.000	0.00	0.00	0.00	
2	150.00	Truck Ball	1	8.212	9.033	1.00	1.00	1.48	0.30	0.000	0.500	13.33	0.00	6.66	
3	145.00	CDX623T-DS	6	8.148	8.963	0.00	1.00	3.32	142.66	0.000	0.000	29.77	0.00	0.00	
4	145.00	FFVV-65B-R3	3	8.148	8.963	0.00	1.00	26.54	531.65	0.000	0.000	237.87	0.00	0.00	
5	140.00	36" Canister Weight	1	8.088	8.897	1.00	1.00	0.00	336.33	0.000	0.000	0.00	0.00	0.00	
6	140.00	Flag	1	8.088	8.897	1.00	1.00	7.21	1.53	0.000	0.000	64.13	0.00	0.00	
7	135.00	Flush Mount	1	8.026	8.829	0.00	1.00	0.00	-381.18	0.000	0.000	0.00	0.00	0.00	
8	135.00	DB-T1-6Z-8AB-0Z	2	8.026	8.829	0.00	1.00	10.73	223.68	0.000	0.000	94.70	0.00	0.00	
9	135.00	FDL85002/1C-3L	6	8.026	8.829	0.00	1.00	0.00	77.66	0.000	0.000	0.00	0.00	0.00	
10	135.00	SBNHH-1D65A	3	8.026	8.829	0.00	1.00	19.73	412.78	0.000	0.000	174.19	0.00	0.00	
11	130.00	36" Canister Weight	1	7.963	8.759	1.00	1.00	0.00	335.95	0.000	0.000	0.00	0.00	0.00	
12	127.00	Flush Mount	1	7.924	8.716	0.00	1.00	0.00	-381.27	0.000	0.000	0.00	0.00	0.00	
13	127.00	ATSBT-TOP-FM	3	7.924	8.716	0.00	1.00	0.00	12.87	0.000	0.000	0.00	0.00	0.00	
14	127.00	CBC426T-DS-43	6	7.924	8.716	0.00	1.00	0.00	117.86	0.000	0.000	0.00	0.00	0.00	
15	127.00	D2WC-21 (2LB+4MB)	3	7.924	8.716	0.00	1.00	17.09	368.13	0.000	0.000	148.96	0.00	0.00	
16	120.00	36" Canister Weight	1	7.830	8.613	1.00	1.00	0.00	335.54	0.000	0.000	0.00	0.00	0.00	
17	115.00	Flush Mount	1	7.760	8.536	0.00	1.00	0.00	-381.40	0.000	0.000	0.00	0.00	0.00	
18	115.00	Kaleus	6	7.760	8.536	0.00	1.00	0.00	242.92	0.000	0.000	0.00	0.00	0.00	
19	115.00	800372965	3	7.760	8.536	0.00	1.00	34.71	707.49	0.000	0.000	296.26	0.00	0.00	
20	110.00	36" Canister Weight	1	7.687	8.456	1.00	1.00	0.00	22.09	0.000	0.000	0.00	0.00	0.00	
21	108.00	36" Canister Weight	1	7.658	8.424	1.00	1.00	0.00	-111.31	0.000	0.000	0.00	0.00	0.00	
22	75.00	GPS	1	7.092	7.801	0.80	0.80	1.15	22.24	0.000	0.000	9.01	0.00	0.00	
Totals:									2,714.12						1,068.20

Total Applied Force Summary

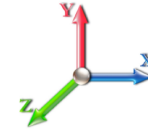
Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 43

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
1.00		20.82	245.92	0.00	0.00
2.00		20.88	248.24	0.00	0.00
3.00		20.92	249.67	0.00	0.00
4.00		20.94	250.73	0.00	0.00
5.00		20.96	251.57	0.00	0.00
6.00		20.98	252.27	0.00	0.00
7.00		20.99	252.87	0.00	0.00
8.00		21.01	253.40	0.00	0.00
9.00		21.02	253.88	0.00	0.00
10.00		21.03	254.31	0.00	0.00
11.00		21.04	254.70	0.00	0.00
12.00		21.05	255.06	0.00	0.00
13.00		21.05	255.40	0.00	0.00
14.00		21.06	255.71	0.00	0.00
15.00		21.07	256.00	0.00	0.00
16.00		21.34	256.28	0.00	0.00
17.00		21.62	256.54	0.00	0.00
18.00		21.88	258.69	0.00	0.00
19.00		22.14	258.94	0.00	0.00
20.00		22.39	259.18	0.00	0.00
21.00		19.04	223.54	0.00	0.00
22.00		19.24	223.73	0.00	0.00
23.00		19.42	223.91	0.00	0.00
24.00		19.60	222.10	0.00	0.00
25.00		19.78	222.25	0.00	0.00
26.00		19.94	222.40	0.00	0.00
27.00		20.11	222.55	0.00	0.00
28.00		20.27	222.69	0.00	0.00
29.00		20.42	222.82	0.00	0.00
30.00		20.57	222.95	0.00	0.00
31.00		20.72	223.08	0.00	0.00
32.00		20.86	223.20	0.00	0.00
33.00		21.00	223.32	0.00	0.00
34.00		21.14	223.44	0.00	0.00
35.00		21.27	223.55	0.00	0.00
36.00		21.40	223.66	0.00	0.00
37.00		21.53	223.77	0.00	0.00
38.00		21.65	223.88	0.00	0.00
39.00		21.78	223.98	0.00	0.00
40.00		21.90	224.08	0.00	0.00
41.00		22.01	224.18	0.00	0.00
42.00		22.13	224.28	0.00	0.00
43.00		22.24	224.37	0.00	0.00
44.00		22.35	224.46	0.00	0.00
45.00		22.46	224.56	0.00	0.00
46.00		22.57	224.64	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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47.00	22.68	224.73	0.00	0.00	
48.00	22.78	224.82	0.00	0.00	
49.00	22.88	224.90	0.00	0.00	
50.00	22.98	224.98	0.00	0.00	
51.00	18.77	188.54	0.00	0.00	
52.00	18.85	188.61	0.00	0.00	
53.00	18.92	188.67	0.00	0.00	
54.00	19.00	188.74	0.00	0.00	
55.00	19.08	188.80	0.00	0.00	
56.00	19.15	188.86	0.00	0.00	
57.00	19.23	188.92	0.00	0.00	
58.00	19.30	188.98	0.00	0.00	
59.00	19.37	189.03	0.00	0.00	
60.00	19.44	189.09	0.00	0.00	
61.00	19.51	189.15	0.00	0.00	
62.00	19.58	189.20	0.00	0.00	
63.00	19.65	189.26	0.00	0.00	
64.00	19.72	189.31	0.00	0.00	
65.00	19.79	189.36	0.00	0.00	
66.00	19.85	189.42	0.00	0.00	
67.00	19.92	189.47	0.00	0.00	
68.00	19.98	189.52	0.00	0.00	
69.00	20.05	189.57	0.00	0.00	
70.00	20.11	189.62	0.00	0.00	
71.00	20.17	189.67	0.00	0.00	
72.00	20.24	189.71	0.00	0.00	
73.00	20.30	189.76	0.00	0.00	
74.00	20.36	189.81	0.00	0.00	
75.00	(1) attachments	29.42	212.09	0.00	0.00
76.00		20.48	189.71	0.00	0.00
77.00		20.53	189.76	0.00	0.00
78.00		20.59	189.80	0.00	0.00
79.00		20.65	189.84	0.00	0.00
80.00		20.71	189.89	0.00	0.00
81.00		20.76	189.93	0.00	0.00
82.00		20.82	189.97	0.00	0.00
83.00		20.87	190.02	0.00	0.00
84.00		20.93	190.06	0.00	0.00
85.00		20.98	190.10	0.00	0.00
86.00		21.04	190.14	0.00	0.00
87.00		21.09	190.18	0.00	0.00
88.00		21.14	190.22	0.00	0.00
89.00		21.20	190.26	0.00	0.00
90.00		21.25	190.30	0.00	0.00
91.00		21.30	190.34	0.00	0.00
92.00		21.35	190.38	0.00	0.00
93.00		21.40	190.42	0.00	0.00
94.00		21.45	190.46	0.00	0.00
95.00		21.50	190.49	0.00	0.00
96.00		21.55	190.53	0.00	0.00
97.00		21.60	190.57	0.00	0.00
98.00		21.65	190.61	0.00	0.00
99.00		21.70	190.64	0.00	0.00
100.00		21.74	190.68	0.00	0.00
101.00		21.79	190.71	0.00	0.00
102.00		21.84	190.75	0.00	0.00
103.00		21.89	190.78	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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104.00		21.93	190.82	0.00	0.00
105.00		21.98	190.85	0.00	0.00
106.00		22.02	190.89	0.00	0.00
107.00		22.07	190.92	0.00	0.00
108.00	(1) attachments	22.11	79.65	0.00	0.00
109.00		30.38	252.20	0.00	0.00
110.00	(1) attachments	30.44	274.32	0.00	0.00
111.00		30.50	188.58	0.00	0.00
111.50		15.26	94.29	0.00	0.00
112.00		15.28	94.30	0.00	0.00
113.00		30.62	188.61	0.00	0.00
114.00		30.67	188.62	0.00	0.00
115.00	(10) attachments	326.99	757.63	0.00	0.00
116.00		30.78	181.15	0.00	0.00
117.00		30.84	181.16	0.00	0.00
118.00		30.90	181.17	0.00	0.00
119.00		30.95	181.18	0.00	0.00
120.00	(1) attachments	31.01	516.73	0.00	0.00
121.00		31.06	181.20	0.00	0.00
122.00		31.11	181.21	0.00	0.00
123.00		31.17	181.22	0.00	0.00
124.00		31.22	181.23	0.00	0.00
125.00		31.27	181.24	0.00	0.00
126.00		31.33	181.25	0.00	0.00
127.00	(13) attachments	180.33	298.84	0.00	0.00
128.00		31.43	170.55	0.00	0.00
129.00		31.48	170.56	0.00	0.00
130.00	(1) attachments	31.53	506.51	0.00	0.00
131.00		31.58	130.96	0.00	0.00
132.00		31.63	130.97	0.00	0.00
133.00		31.68	130.98	0.00	0.00
134.00		31.73	130.99	0.00	0.00
135.00	(12) attachments	300.67	463.93	0.00	0.00
136.00		31.83	121.45	0.00	0.00
137.00		31.88	121.46	0.00	0.00
138.00		31.93	121.47	0.00	0.00
139.00		31.98	121.48	0.00	0.00
140.00	(2) attachments	96.16	459.36	0.00	0.00
141.00		32.08	121.50	0.00	0.00
142.00		32.12	121.51	0.00	0.00
143.00		32.17	121.52	0.00	0.00
144.00		32.22	121.52	0.00	0.00
145.00	(9) attachments	299.91	795.84	0.00	0.00
146.00		32.31	106.57	0.00	0.00
147.00		32.36	106.57	0.00	0.00
148.00		32.40	106.58	0.00	0.00
149.00		32.45	106.59	0.00	0.00
150.00	(2) attachments	45.83	184.53	0.00	6.66
Totals:		4,646.06	32,053.56	0.00	6.66

Linear Appurtenance Segment Forces (Factored)

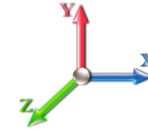
Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 43

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)
18.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.24	0.00	0.028	0.000	5.252	0.00	1.90
19.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.24	0.00	0.028	0.000	5.312	0.00	1.91
20.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.24	0.00	0.028	0.000	5.369	0.00	1.93
21.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.24	0.00	0.033	0.000	5.425	0.00	1.94
22.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.24	0.00	0.033	0.000	5.478	0.00	1.96
23.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.24	0.00	0.033	0.000	5.530	0.00	1.97
Totals:											0.0	11.6

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 40



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

Iterations 43

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	-32.05	-4.65	0.00	-485.55	0.00	485.55	1490.10	475.94	99948.2	1339.68	0.00	0.000	0.000	0.384
1.00	-31.81	-4.64	0.00	-480.90	0.00	480.90	1490.10	475.94	99948.2	1339.68	0.00	-0.021	0.000	0.380
2.00	-31.56	-4.63	0.00	-476.26	0.00	476.26	1490.10	475.94	99948.2	1339.68	0.01	-0.041	0.000	0.377
3.00	-31.30	-4.62	0.00	-471.63	0.00	471.63	1490.10	475.94	99948.2	1339.68	0.02	-0.061	0.000	0.373
4.00	-31.05	-4.61	0.00	-467.00	0.00	467.00	1490.10	475.94	99948.2	1339.68	0.03	-0.081	0.000	0.370
5.00	-30.80	-4.60	0.00	-462.39	0.00	462.39	1490.10	475.94	99948.2	1339.68	0.05	-0.101	0.000	0.366
6.00	-30.54	-4.59	0.00	-457.79	0.00	457.79	1490.10	475.94	99948.2	1339.68	0.08	-0.121	0.000	0.362
7.00	-30.29	-4.58	0.00	-453.20	0.00	453.20	1490.10	475.94	99948.2	1339.68	0.10	-0.140	0.000	0.359
8.00	-30.04	-4.57	0.00	-448.62	0.00	448.62	1490.10	475.94	99948.2	1339.68	0.14	-0.160	0.000	0.355
9.00	-29.78	-4.55	0.00	-444.06	0.00	444.06	1490.10	475.94	99948.2	1339.68	0.17	-0.179	0.000	0.352
10.00	-29.52	-4.54	0.00	-439.50	0.00	439.50	1490.10	475.94	99948.2	1339.68	0.21	-0.197	0.000	0.348
11.00	-29.27	-4.53	0.00	-434.96	0.00	434.96	1490.10	475.94	99948.2	1339.68	0.25	-0.216	0.000	0.344
12.00	-29.01	-4.52	0.00	-430.43	0.00	430.43	1490.10	475.94	99948.2	1339.68	0.30	-0.235	0.000	0.341
13.00	-28.76	-4.50	0.00	-425.91	0.00	425.91	1490.10	475.94	99948.2	1339.68	0.35	-0.253	0.000	0.337
14.00	-28.50	-4.49	0.00	-421.41	0.00	421.41	1490.10	475.94	99948.2	1339.68	0.41	-0.271	0.000	0.334
15.00	-28.24	-4.48	0.00	-416.92	0.00	416.92	1490.10	475.94	99948.2	1339.68	0.47	-0.289	0.000	0.330
16.00	-27.98	-4.46	0.00	-412.44	0.00	412.44	1490.10	475.94	99948.2	1339.68	0.53	-0.307	0.000	0.327
17.00	-27.73	-4.45	0.00	-407.98	0.00	407.98	1490.10	475.94	99948.2	1339.68	0.60	-0.324	0.000	0.323
18.00	-27.47	-4.43	0.00	-403.53	0.00	403.53	1490.10	475.94	99948.2	1339.68	0.66	-0.341	0.000	0.320
19.00	-27.21	-4.42	0.00	-399.09	0.00	399.09	1490.10	475.94	99948.2	1339.68	0.74	-0.359	0.000	0.316
20.00	-26.95	-4.40	0.00	-394.67	0.00	394.67	1490.10	475.94	99948.2	1339.68	0.82	-0.375	0.000	0.313
20.00	-26.95	-4.40	0.00	-394.67	0.00	394.67	1311.06	395.78	69116.5	948.43	0.82	-0.375	0.000	0.437
21.00	-26.72	-4.39	0.00	-390.27	0.00	390.27	1311.06	395.78	69116.5	948.43	0.90	-0.392	0.000	0.432
22.00	-26.49	-4.38	0.00	-385.88	0.00	385.88	1311.06	395.78	69116.5	948.43	0.98	-0.421	0.000	0.427
23.00	-26.27	-4.38	0.00	-381.50	0.00	381.50	1311.06	395.78	69116.5	948.43	1.07	-0.450	0.000	0.422
24.00	-26.04	-4.37	0.00	-377.12	0.00	377.12	1311.06	395.78	69116.5	948.43	1.17	-0.478	0.000	0.418
25.00	-25.82	-4.36	0.00	-372.75	0.00	372.75	1311.06	395.78	69116.5	948.43	1.27	-0.506	0.000	0.413
26.00	-25.60	-4.35	0.00	-368.39	0.00	368.39	1311.06	395.78	69116.5	948.43	1.38	-0.533	0.000	0.408
27.00	-25.37	-4.34	0.00	-364.04	0.00	364.04	1311.06	395.78	69116.5	948.43	1.50	-0.560	0.000	0.403
28.00	-25.15	-4.33	0.00	-359.71	0.00	359.71	1311.06	395.78	69116.5	948.43	1.62	-0.587	0.000	0.399
29.00	-24.92	-4.32	0.00	-355.38	0.00	355.38	1311.06	395.78	69116.5	948.43	1.74	-0.614	0.000	0.394
30.00	-24.70	-4.30	0.00	-351.06	0.00	351.06	1311.06	395.78	69116.5	948.43	1.87	-0.640	0.000	0.389
31.00	-24.47	-4.29	0.00	-346.76	0.00	346.76	1311.06	395.78	69116.5	948.43	2.01	-0.666	0.000	0.384
32.00	-24.25	-4.28	0.00	-342.47	0.00	342.47	1311.06	395.78	69116.5	948.43	2.15	-0.691	0.000	0.380
33.00	-24.02	-4.27	0.00	-338.19	0.00	338.19	1311.06	395.78	69116.5	948.43	2.30	-0.717	0.000	0.375
34.00	-23.80	-4.25	0.00	-333.92	0.00	333.92	1311.06	395.78	69116.5	948.43	2.45	-0.742	0.000	0.370
35.00	-23.57	-4.24	0.00	-329.67	0.00	329.67	1311.06	395.78	69116.5	948.43	2.61	-0.766	0.000	0.366
36.00	-23.35	-4.22	0.00	-325.43	0.00	325.43	1311.06	395.78	69116.5	948.43	2.77	-0.791	0.000	0.361
37.00	-23.12	-4.21	0.00	-321.20	0.00	321.20	1311.06	395.78	69116.5	948.43	2.94	-0.815	0.000	0.356
38.00	-22.90	-4.19	0.00	-316.99	0.00	316.99	1311.06	395.78	69116.5	948.43	3.12	-0.838	0.000	0.352
39.00	-22.67	-4.18	0.00	-312.80	0.00	312.80	1311.06	395.78	69116.5	948.43	3.29	-0.862	0.000	0.347
40.00	-22.45	-4.16	0.00	-308.62	0.00	308.62	1311.06	395.78	69116.5	948.43	3.48	-0.885	0.000	0.343
41.00	-22.22	-4.14	0.00	-304.46	0.00	304.46	1311.06	395.78	69116.5	948.43	3.66	-0.907	0.000	0.338
42.00	-22.00	-4.13	0.00	-300.32	0.00	300.32	1311.06	395.78	69116.5	948.43	3.86	-0.930	0.000	0.334
43.00	-21.77	-4.11	0.00	-296.19	0.00	296.19	1311.06	395.78	69116.5	948.43	4.05	-0.952	0.000	0.329
44.00	-21.54	-4.09	0.00	-292.08	0.00	292.08	1311.06	395.78	69116.5	948.43	4.26	-0.974	0.000	0.325
45.00	-21.32	-4.07	0.00	-287.99	0.00	287.99	1311.06	395.78	69116.5	948.43	4.46	-0.995	0.000	0.320
46.00	-21.09	-4.05	0.00	-283.92	0.00	283.92	1311.06	395.78	69116.5	948.43	4.67	-1.017	0.000	0.316

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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47.00	-20.87	-4.04	0.00	-279.86	0.00	279.86	1311.06	395.78	69116.5	948.43	4.89	-1.038	0.000	0.311
48.00	-20.64	-4.02	0.00	-275.82	0.00	275.82	1311.06	395.78	69116.5	948.43	5.11	-1.058	0.000	0.307
49.00	-20.42	-4.00	0.00	-271.81	0.00	271.81	1311.06	395.78	69116.5	948.43	5.33	-1.079	0.000	0.302
50.00	-20.19	-3.98	0.00	-267.81	0.00	267.81	1311.06	395.78	69116.5	948.43	5.56	-1.099	0.000	0.298
50.00	-20.19	-3.98	0.00	-267.81	0.00	267.81	1052.07	315.62	43955.0	624.04	5.56	-1.099	0.000	0.449
51.00	-20.00	-3.96	0.00	-263.84	0.00	263.84	1052.07	315.62	43955.0	624.04	5.79	-1.118	0.000	0.442
52.00	-19.81	-3.95	0.00	-259.87	0.00	259.87	1052.07	315.62	43955.0	624.04	6.03	-1.157	0.000	0.435
53.00	-19.62	-3.94	0.00	-255.92	0.00	255.92	1052.07	315.62	43955.0	624.04	6.28	-1.194	0.000	0.429
54.00	-19.43	-3.93	0.00	-251.97	0.00	251.97	1052.07	315.62	43955.0	624.04	6.53	-1.232	0.000	0.422
55.00	-19.24	-3.92	0.00	-248.04	0.00	248.04	1052.07	315.62	43955.0	624.04	6.79	-1.268	0.000	0.416
56.00	-19.05	-3.91	0.00	-244.12	0.00	244.12	1052.07	315.62	43955.0	624.04	7.06	-1.304	0.000	0.409
57.00	-18.86	-3.90	0.00	-240.21	0.00	240.21	1052.07	315.62	43955.0	624.04	7.34	-1.340	0.000	0.403
58.00	-18.66	-3.89	0.00	-236.31	0.00	236.31	1052.07	315.62	43955.0	624.04	7.62	-1.375	0.000	0.397
59.00	-18.47	-3.87	0.00	-232.42	0.00	232.42	1052.07	315.62	43955.0	624.04	7.91	-1.409	0.000	0.390
60.00	-18.28	-3.86	0.00	-228.55	0.00	228.55	1052.07	315.62	43955.0	624.04	8.21	-1.443	0.000	0.384
61.00	-18.09	-3.85	0.00	-224.69	0.00	224.69	1052.07	315.62	43955.0	624.04	8.52	-1.476	0.000	0.377
62.00	-17.90	-3.83	0.00	-220.84	0.00	220.84	1052.07	315.62	43955.0	624.04	8.83	-1.508	0.000	0.371
63.00	-17.71	-3.82	0.00	-217.01	0.00	217.01	1052.07	315.62	43955.0	624.04	9.15	-1.540	0.000	0.365
64.00	-17.52	-3.80	0.00	-213.19	0.00	213.19	1052.07	315.62	43955.0	624.04	9.48	-1.572	0.000	0.358
65.00	-17.33	-3.79	0.00	-209.39	0.00	209.39	1052.07	315.62	43955.0	624.04	9.81	-1.603	0.000	0.352
66.00	-17.14	-3.77	0.00	-205.60	0.00	205.60	1052.07	315.62	43955.0	624.04	10.15	-1.633	0.000	0.346
67.00	-16.95	-3.75	0.00	-201.83	0.00	201.83	1052.07	315.62	43955.0	624.04	10.49	-1.663	0.000	0.340
68.00	-16.76	-3.74	0.00	-198.08	0.00	198.08	1052.07	315.62	43955.0	624.04	10.85	-1.692	0.000	0.333
69.00	-16.57	-3.72	0.00	-194.34	0.00	194.34	1052.07	315.62	43955.0	624.04	11.20	-1.721	0.000	0.327
70.00	-16.38	-3.70	0.00	-190.62	0.00	190.62	1052.07	315.62	43955.0	624.04	11.57	-1.749	0.000	0.321
71.00	-16.18	-3.68	0.00	-186.92	0.00	186.92	1052.07	315.62	43955.0	624.04	11.94	-1.777	0.000	0.315
72.00	-15.99	-3.66	0.00	-183.24	0.00	183.24	1052.07	315.62	43955.0	624.04	12.31	-1.804	0.000	0.309
73.00	-15.80	-3.65	0.00	-179.58	0.00	179.58	1052.07	315.62	43955.0	624.04	12.69	-1.831	0.000	0.303
74.00	-15.61	-3.63	0.00	-175.93	0.00	175.93	1052.07	315.62	43955.0	624.04	13.08	-1.857	0.000	0.297
75.00	-15.40	-3.60	0.00	-172.31	0.00	172.31	1052.07	315.62	43955.0	624.04	13.47	-1.882	0.000	0.291
76.00	-15.21	-3.58	0.00	-168.71	0.00	168.71	1052.07	315.62	43955.0	624.04	13.87	-1.907	0.000	0.285
77.00	-15.02	-3.56	0.00	-165.13	0.00	165.13	1052.07	315.62	43955.0	624.04	14.27	-1.931	0.000	0.279
78.00	-14.83	-3.53	0.00	-161.58	0.00	161.58	1052.07	315.62	43955.0	624.04	14.67	-1.955	0.000	0.273
79.00	-14.64	-3.51	0.00	-158.04	0.00	158.04	1052.07	315.62	43955.0	624.04	15.09	-1.979	0.000	0.267
80.00	-14.45	-3.49	0.00	-154.53	0.00	154.53	1052.07	315.62	43955.0	624.04	15.50	-2.002	0.000	0.261
80.00	-14.45	-3.49	0.00	-154.53	0.00	154.53	1052.07	315.62	43955.0	624.04	15.50	-2.002	0.000	0.261
81.00	-14.26	-3.47	0.00	-151.04	0.00	151.04	1052.07	315.62	43955.0	624.04	15.93	-2.024	0.000	0.256
82.00	-14.07	-3.45	0.00	-147.57	0.00	147.57	1052.07	315.62	43955.0	624.04	16.35	-2.046	0.000	0.250
83.00	-13.88	-3.42	0.00	-144.12	0.00	144.12	1052.07	315.62	43955.0	624.04	16.78	-2.067	0.000	0.244
84.00	-13.69	-3.40	0.00	-140.70	0.00	140.70	1052.07	315.62	43955.0	624.04	17.22	-2.088	0.000	0.239
85.00	-13.50	-3.38	0.00	-137.30	0.00	137.30	1052.07	315.62	43955.0	624.04	17.66	-2.108	0.000	0.233
86.00	-13.31	-3.36	0.00	-133.92	0.00	133.92	1052.07	315.62	43955.0	624.04	18.10	-2.128	0.000	0.227
87.00	-13.11	-3.33	0.00	-130.56	0.00	130.56	1052.07	315.62	43955.0	624.04	18.55	-2.148	0.000	0.222
88.00	-12.92	-3.31	0.00	-127.23	0.00	127.23	1052.07	315.62	43955.0	624.04	19.00	-2.167	0.000	0.216
89.00	-12.73	-3.28	0.00	-123.92	0.00	123.92	1052.07	315.62	43955.0	624.04	19.46	-2.185	0.000	0.211
90.00	-12.54	-3.26	0.00	-120.64	0.00	120.64	1052.07	315.62	43955.0	624.04	19.92	-2.203	0.000	0.205
91.00	-12.35	-3.23	0.00	-117.38	0.00	117.38	1052.07	315.62	43955.0	624.04	20.38	-2.220	0.000	0.200
92.00	-12.16	-3.21	0.00	-114.15	0.00	114.15	1052.07	315.62	43955.0	624.04	20.85	-2.237	0.000	0.195
93.00	-11.97	-3.18	0.00	-110.94	0.00	110.94	1052.07	315.62	43955.0	624.04	21.32	-2.254	0.000	0.189
94.00	-11.78	-3.16	0.00	-107.76	0.00	107.76	1052.07	315.62	43955.0	624.04	21.79	-2.270	0.000	0.184
95.00	-11.59	-3.13	0.00	-104.60	0.00	104.60	1052.07	315.62	43955.0	624.04	22.27	-2.285	0.000	0.179
96.00	-11.40	-3.11	0.00	-101.47	0.00	101.47	1052.07	315.62	43955.0	624.04	22.75	-2.300	0.000	0.174
97.00	-11.21	-3.08	0.00	-98.36	0.00	98.36	1052.07	315.62	43955.0	624.04	23.23	-2.315	0.000	0.168
98.00	-11.02	-3.05	0.00	-95.29	0.00	95.29	1052.07	315.62	43955.0	624.04	23.72	-2.329	0.000	0.163
99.00	-10.83	-3.03	0.00	-92.23	0.00	92.23	1052.07	315.62	43955.0	624.04	24.21	-2.343	0.000	0.158
100.00	-10.64	-3.00	0.00	-89.21	0.00	89.21	1052.07	315.62	43955.0	624.04	24.70	-2.356	0.000	0.153
101.00	-10.45	-2.97	0.00	-86.21	0.00	86.21	1052.07	315.62	43955.0	624.04	25.19	-2.369	0.000	0.148

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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102.00	-10.26	-2.94	0.00	-83.24	0.00	83.24	1052.07	315.62	43955.0	624.04	25.69	-2.381	0.000	0.143
103.00	-10.07	-2.92	0.00	-80.30	0.00	80.30	1052.07	315.62	43955.0	624.04	26.19	-2.393	0.000	0.138
104.00	-9.88	-2.89	0.00	-77.38	0.00	77.38	1052.07	315.62	43955.0	624.04	26.69	-2.405	0.000	0.133
105.00	-9.69	-2.86	0.00	-74.49	0.00	74.49	1052.07	315.62	43955.0	624.04	27.20	-2.416	0.000	0.129
106.00	-9.50	-2.83	0.00	-71.64	0.00	71.64	1052.07	315.62	43955.0	624.04	27.70	-2.427	0.000	0.124
107.00	-9.31	-2.80	0.00	-68.80	0.00	68.80	1052.07	315.62	43955.0	624.04	28.21	-2.437	0.000	0.119
108.00	-9.23	-2.78	0.00	-66.00	0.00	66.00	1052.07	315.62	43955.0	624.04	28.72	-2.447	0.000	0.115
108.00	-9.23	-2.78	0.00	-66.00	0.00	66.00	1052.07	315.62	43955.0	624.04	28.72	-2.447	0.000	0.115
109.00	-8.98	-2.74	0.00	-63.22	0.00	63.22	1052.07	315.62	43955.0	624.04	29.24	-2.456	0.000	0.110
110.00	-8.70	-2.70	0.00	-60.48	0.00	60.48	1052.07	315.62	43955.0	624.04	29.75	-2.465	0.000	0.066
110.00	-8.70	-2.70	0.00	-60.48	0.00	60.48	682.83	204.85	11780.8	105.20	29.75	-2.465	0.000	0.020
111.00	-8.52	-2.66	0.00	-57.79	0.00	57.79	682.83	204.85	11780.8	105.20	30.27	-2.471	0.000	0.154
111.50	-8.42	-2.65	0.00	-56.46	0.00	56.46	682.83	204.85	11780.8	105.20	30.53	-2.500	0.000	0.151
111.50	-8.42	-2.65	0.00	-56.46	0.00	56.46	682.83	204.85	11780.8	105.20	30.53	-2.500	0.000	0.393
112.00	-8.32	-2.64	0.00	-55.13	0.00	55.13	682.83	204.85	11780.8	105.20	30.79	-2.528	0.000	0.536
113.00	-8.13	-2.63	0.00	-52.49	0.00	52.49	682.83	204.85	11780.8	105.20	31.34	-2.733	0.000	0.511
114.00	-7.93	-2.62	0.00	-49.86	0.00	49.86	682.83	204.85	11780.8	105.20	31.94	-2.928	0.000	0.486
115.00	-7.19	-2.28	0.00	-47.24	0.00	47.24	682.83	204.85	11780.8	105.20	32.57	-3.113	0.000	0.460
116.00	-7.00	-2.26	0.00	-44.96	0.00	44.96	682.83	204.85	11780.8	105.20	33.24	-3.288	0.000	0.438
117.00	-6.81	-2.23	0.00	-42.70	0.00	42.70	682.83	204.85	11780.8	105.20	33.95	-3.455	0.000	0.416
118.00	-6.63	-2.21	0.00	-40.47	0.00	40.47	682.83	204.85	11780.8	105.20	34.69	-3.613	0.000	0.395
119.00	-6.44	-2.18	0.00	-38.26	0.00	38.26	682.83	204.85	11780.8	105.20	35.46	-3.763	0.000	0.373
120.00	-5.93	-2.13	0.00	-36.08	0.00	36.08	682.83	204.85	11780.8	105.20	36.26	-3.905	0.000	0.352
121.00	-5.74	-2.10	0.00	-33.95	0.00	33.95	682.83	204.85	11780.8	105.20	37.09	-4.038	0.000	0.331
122.00	-5.56	-2.07	0.00	-31.84	0.00	31.84	682.83	204.85	11780.8	105.20	37.95	-4.163	0.000	0.311
123.00	-5.38	-2.04	0.00	-29.77	0.00	29.77	682.83	204.85	11780.8	105.20	38.83	-4.281	0.000	0.291
124.00	-5.20	-2.00	0.00	-27.74	0.00	27.74	682.83	204.85	11780.8	105.20	39.74	-4.390	0.000	0.271
125.00	-5.01	-1.96	0.00	-25.74	0.00	25.74	682.83	204.85	11780.8	105.20	40.67	-4.492	0.000	0.252
126.00	-4.83	-1.93	0.00	-23.77	0.00	23.77	682.83	204.85	11780.8	105.20	41.62	-4.586	0.000	0.233
127.00	-4.55	-1.73	0.00	-21.85	0.00	21.85	682.83	204.85	11780.8	105.20	42.59	-4.673	0.000	0.214
128.00	-4.38	-1.69	0.00	-20.12	0.00	20.12	682.83	204.85	11780.8	105.20	43.58	-4.753	0.000	0.198
129.00	-4.21	-1.65	0.00	-18.43	0.00	18.43	682.83	204.85	11780.8	105.20	44.58	-4.826	0.000	0.181
130.00	-3.70	-1.58	0.00	-16.78	0.00	16.78	682.83	204.85	11780.8	105.20	45.59	-4.894	0.000	0.165
130.00	-3.70	-1.58	0.00	-16.78	0.00	16.78	317.71	95.31	3734.62	52.28	45.59	-4.894	0.000	0.333
131.00	-3.57	-1.54	0.00	-15.20	0.00	15.20	317.71	95.31	3734.62	52.28	46.62	-4.954	0.000	0.302
132.00	-3.44	-1.50	0.00	-13.66	0.00	13.66	317.71	95.31	3734.62	52.28	47.67	-5.056	0.000	0.272
133.00	-3.31	-1.47	0.00	-12.16	0.00	12.16	317.71	95.31	3734.62	52.28	48.74	-5.147	0.000	0.243
134.00	-3.18	-1.43	0.00	-10.69	0.00	10.69	317.71	95.31	3734.62	52.28	49.82	-5.228	0.000	0.215
135.00	-2.75	-1.09	0.00	-9.27	0.00	9.27	317.71	95.31	3734.62	52.28	50.93	-5.298	0.000	0.186
136.00	-2.63	-1.05	0.00	-8.18	0.00	8.18	317.71	95.31	3734.62	52.28	52.04	-5.360	0.000	0.165
137.00	-2.51	-1.01	0.00	-7.13	0.00	7.13	317.71	95.31	3734.62	52.28	53.17	-5.414	0.000	0.144
138.00	-2.39	-0.96	0.00	-6.13	0.00	6.13	317.71	95.31	3734.62	52.28	54.30	-5.461	0.000	0.125
139.00	-2.27	-0.92	0.00	-5.16	0.00	5.16	317.71	95.31	3734.62	52.28	55.45	-5.501	0.000	0.106
140.00	-1.83	-0.78	0.00	-4.24	0.00	4.24	317.71	95.31	3734.62	52.28	56.60	-5.534	0.000	0.087
141.00	-1.71	-0.74	0.00	-3.46	0.00	3.46	317.71	95.31	3734.62	52.28	57.76	-5.561	0.000	0.072
142.00	-1.59	-0.70	0.00	-2.71	0.00	2.71	317.71	95.31	3734.62	52.28	58.93	-5.583	0.000	0.057
143.00	-1.47	-0.65	0.00	-2.02	0.00	2.02	317.71	95.31	3734.62	52.28	60.10	-5.599	0.000	0.043
144.00	-1.35	-0.61	0.00	-1.36	0.00	1.36	317.71	95.31	3734.62	52.28	61.27	-5.611	0.000	0.030
145.00	-0.59	-0.23	0.00	-0.75	0.00	0.75	317.71	95.31	3734.62	52.28	62.45	-5.619	0.000	0.016
146.00	-0.49	-0.19	0.00	-0.52	0.00	0.52	317.71	95.31	3734.62	52.28	63.62	-5.623	0.000	0.011
147.00	-0.38	-0.15	0.00	-0.33	0.00	0.33	317.71	95.31	3734.62	52.28	64.80	-5.626	0.000	0.007
148.00	-0.28	-0.11	0.00	-0.18	0.00	0.18	317.71	95.31	3734.62	52.28	65.97	-5.628	0.000	0.004
149.00	-0.18	-0.06	0.00	-0.07	0.00	0.07	317.71	95.31	3734.62	52.28	67.15	-5.629	0.000	0.002
150.00	0.00	-0.05	0.00	-0.01	0.00	0.01	317.71	95.31	3734.62	52.28	68.33	-5.629	0.000	0.000

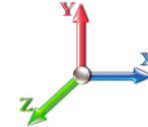
Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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 + 1.0Ev + 1.0Eh						Iterations 37
Gust Response Factor	1.10			Sds 0.21		Ss 0.20
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1 0.09		S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.32	SA 0.03	Seismic Importance Factor	1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	
0.00		0.00	0.00	0.00	0.00	
1.00		185.75	0.50	7.93	0.00	
2.00		185.75	1.50	7.93	0.00	
3.00		185.75	2.50	7.93	0.00	
4.00		185.75	3.50	7.93	0.01	
5.00		185.75	4.50	7.93	0.01	
6.00		185.75	5.50	7.93	0.01	
7.00		185.75	6.50	7.93	0.02	
8.00		185.75	7.50	7.93	0.03	
9.00		185.75	8.50	7.93	0.03	
10.00		185.75	9.50	7.93	0.04	
11.00		185.75	10.50	7.93	0.05	
12.00		185.75	11.50	7.93	0.06	
13.00		185.75	12.50	7.93	0.07	
14.00		185.75	13.50	7.93	0.09	
15.00		185.75	14.50	7.93	0.10	
16.00		185.75	15.50	7.93	0.11	
17.00		185.75	16.50	7.93	0.13	
18.00		185.75	17.50	7.93	0.15	
19.00		185.75	18.50	7.93	0.16	
20.00	Top - Section 1	185.75	19.50	7.93	0.18	
21.00		161.70	20.50	6.90	0.15	
22.00		161.70	21.50	6.90	0.17	
23.00		161.70	22.50	6.90	0.18	
24.00		161.70	23.50	6.90	0.20	
25.00		161.70	24.50	6.90	0.22	
26.00		161.70	25.50	6.90	0.24	
27.00		161.70	26.50	6.90	0.25	
28.00		161.70	27.50	6.90	0.27	
29.00		161.70	28.50	6.90	0.29	
30.00		161.70	29.50	6.90	0.32	
31.00		161.70	30.50	6.90	0.34	
32.00		161.70	31.50	6.90	0.36	
33.00		161.70	32.50	6.90	0.38	
34.00		161.70	33.50	6.90	0.41	
35.00		161.70	34.50	6.90	0.43	
36.00		161.70	35.50	6.90	0.46	
37.00		161.70	36.50	6.90	0.48	
38.00		161.70	37.50	6.90	0.51	
39.00		161.70	38.50	6.90	0.54	
40.00		161.70	39.50	6.90	0.57	
41.00		161.70	40.50	6.90	0.59	
42.00		161.70	41.50	6.90	0.62	
43.00		161.70	42.50	6.90	0.65	
44.00		161.70	43.50	6.90	0.69	
45.00		161.70	44.50	6.90	0.72	

R: 1.50

Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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46.00		161.70	45.50	6.90	0.75
47.00		161.70	46.50	6.90	0.78
48.00		161.70	47.50	6.90	0.82
49.00		161.70	48.50	6.90	0.85
50.00	Top - Section 2	161.70	49.50	6.90	0.89
51.00		137.64	50.50	5.87	0.67
52.00		137.64	51.50	5.87	0.70
53.00		137.64	52.50	5.87	0.72
54.00		137.64	53.50	5.87	0.75
55.00		137.64	54.50	5.87	0.78
56.00		137.64	55.50	5.87	0.81
57.00		137.64	56.50	5.87	0.84
58.00		137.64	57.50	5.87	0.87
59.00		137.64	58.50	5.87	0.90
60.00		137.64	59.50	5.87	0.93
61.00		137.64	60.50	5.87	0.96
62.00		137.64	61.50	5.87	0.99
63.00		137.64	62.50	5.87	1.03
64.00		137.64	63.50	5.87	1.06
65.00		137.64	64.50	5.87	1.09
66.00		137.64	65.50	5.87	1.13
67.00		137.64	66.50	5.87	1.16
68.00		137.64	67.50	5.87	1.20
69.00		137.64	68.50	5.87	1.23
70.00		137.64	69.50	5.87	1.27
71.00		137.64	70.50	5.87	1.30
72.00		137.64	71.50	5.87	1.34
73.00		137.64	72.50	5.87	1.38
74.00		137.64	73.50	5.87	1.42
75.00	Appurtenance(s)	147.64	74.50	6.30	1.68
76.00		137.45	75.50	5.86	1.49
77.00		137.45	76.50	5.86	1.53
78.00		137.45	77.50	5.86	1.57
79.00		137.45	78.50	5.86	1.61
80.00	Top - Section 3	137.45	79.50	5.86	1.65
81.00		137.45	80.50	5.86	1.70
82.00		137.45	81.50	5.86	1.74
83.00		137.45	82.50	5.86	1.78
84.00		137.45	83.50	5.86	1.83
85.00		137.45	84.50	5.86	1.87
86.00		137.45	85.50	5.86	1.91
87.00		137.45	86.50	5.86	1.96
88.00		137.45	87.50	5.86	2.00
89.00		137.45	88.50	5.86	2.05
90.00		137.45	89.50	5.86	2.10
91.00		137.45	90.50	5.86	2.14
92.00		137.45	91.50	5.86	2.19
93.00		137.45	92.50	5.86	2.24
94.00		137.45	93.50	5.86	2.29
95.00		137.45	94.50	5.86	2.34
96.00		137.45	95.50	5.86	2.39
97.00		137.45	96.50	5.86	2.44
98.00		137.45	97.50	5.86	2.49
99.00		137.45	98.50	5.86	2.54
100.00		137.45	99.50	5.86	2.59
101.00		137.45	100.50	5.86	2.64
102.00		137.45	101.50	5.86	2.70

Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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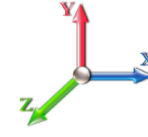
103.00		137.45	102.50	5.86	2.75
104.00		137.45	103.50	5.86	2.80
105.00		137.45	104.50	5.86	2.86
106.00		137.45	105.50	5.86	2.91
107.00		137.45	106.50	5.86	2.97
108.00	Top - Section 4	150.36	107.50	6.42	3.62
109.00		137.45	108.50	5.86	3.08
110.00	Top - Section 5 RB1	214.93	109.50	9.17	7.68
111.00		104.21	110.50	4.45	1.84
111.50	RT1	52.11	111.25	2.22	0.47
112.00		52.11	111.75	2.22	0.47
113.00		104.21	112.50	4.45	1.90
114.00		104.21	113.50	4.45	1.94
115.00	Appurtenance(s)	489.51	114.50	20.89	43.54
116.00		96.72	115.50	4.13	1.73
117.00		96.72	116.50	4.13	1.76
118.00		96.72	117.50	4.13	1.79
119.00		96.72	118.50	4.13	1.82
120.00	Appurtenance(s)	225.86	119.50	9.64	10.10
121.00		96.72	120.50	4.13	1.88
122.00		96.72	121.50	4.13	1.91
123.00		96.72	122.50	4.13	1.95
124.00		96.72	123.50	4.13	1.98
125.00		96.72	124.50	4.13	2.01
126.00		96.72	125.50	4.13	2.04
127.00	Appurtenance(s)	263.62	126.50	11.25	15.41
128.00		86.00	127.50	3.67	1.67
129.00		86.00	128.50	3.67	1.69
130.00	Top - Section 6	215.14	129.50	9.18	10.76
131.00		53.13	130.50	2.27	0.67
132.00		53.13	131.50	2.27	0.68
133.00		53.13	132.50	2.27	0.69
134.00		53.13	133.50	2.27	0.70
135.00	Appurtenance(s)	258.43	134.50	11.03	16.74
136.00		43.58	135.50	1.86	0.48
137.00		43.58	136.50	1.86	0.49
138.00		43.58	137.50	1.86	0.50
139.00		43.58	138.50	1.86	0.50
140.00	Appurtenance(s)	197.72	139.50	8.44	10.54
141.00		43.58	140.50	1.86	0.52
142.00		43.58	141.50	1.86	0.53
143.00		43.58	142.50	1.86	0.53
144.00		43.58	143.50	1.86	0.54
145.00	Appurtenance(s)	235.58	144.50	10.05	16.06
146.00		28.60	145.50	1.22	0.24
147.00		28.60	146.50	1.22	0.24
148.00		28.60	147.50	1.22	0.25
149.00		28.60	148.50	1.22	0.25
150.00	Appurtenance(s)	98.17	149.50	4.19	2.99
Totals:		21,133.8		901.7	288.9
				Total Wind:	11,185.0

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.0Ev + 1.0Eh										Iterations 37
Gust Response Factor 1.10					Sds 0.21					Ss 0.20
Dead Load Factor 1.20			Seismic Load Factor 1.00			Sd1 0.09				S1 0.06
Wind Load Factor 0.00		Structure Frequency (f1) 0.32		SA 0.03		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	-25.61	-0.29	0.00	-33.27	0.00	33.27	1490.10	475.94	99948.2	1339.68	0.00	0.00	0.00	0.042
1.00	-25.38	-0.29	0.00	-32.98	0.00	32.98	1490.10	475.94	99948.2	1339.68	0.00	0.00	0.00	0.042
2.00	-25.16	-0.29	0.00	-32.69	0.00	32.69	1490.10	475.94	99948.2	1339.68	0.00	0.00	0.00	0.041
3.00	-24.94	-0.29	0.00	-32.40	0.00	32.40	1490.10	475.94	99948.2	1339.68	0.00	0.00	0.00	0.041
4.00	-24.72	-0.29	0.00	-32.11	0.00	32.11	1490.10	475.94	99948.2	1339.68	0.00	-0.01	0.00	0.041
5.00	-24.50	-0.29	0.00	-31.82	0.00	31.82	1490.10	475.94	99948.2	1339.68	0.00	-0.01	0.00	0.040
6.00	-24.27	-0.29	0.00	-31.53	0.00	31.53	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.040
7.00	-24.05	-0.29	0.00	-31.24	0.00	31.24	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.039
8.00	-23.83	-0.29	0.00	-30.95	0.00	30.95	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.039
9.00	-23.61	-0.29	0.00	-30.65	0.00	30.65	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.039
10.00	-23.38	-0.29	0.00	-30.36	0.00	30.36	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.038
11.00	-23.16	-0.29	0.00	-30.07	0.00	30.07	1490.10	475.94	99948.2	1339.68	0.02	-0.01	0.00	0.038
12.00	-22.94	-0.29	0.00	-29.77	0.00	29.77	1490.10	475.94	99948.2	1339.68	0.02	-0.02	0.00	0.038
13.00	-22.72	-0.29	0.00	-29.48	0.00	29.48	1490.10	475.94	99948.2	1339.68	0.02	-0.02	0.00	0.037
14.00	-22.50	-0.29	0.00	-29.18	0.00	29.18	1490.10	475.94	99948.2	1339.68	0.03	-0.02	0.00	0.037
15.00	-22.27	-0.30	0.00	-28.89	0.00	28.89	1490.10	475.94	99948.2	1339.68	0.03	-0.02	0.00	0.037
16.00	-22.05	-0.30	0.00	-28.59	0.00	28.59	1490.10	475.94	99948.2	1339.68	0.04	-0.02	0.00	0.036
17.00	-21.83	-0.30	0.00	-28.30	0.00	28.30	1490.10	475.94	99948.2	1339.68	0.04	-0.02	0.00	0.036
18.00	-21.61	-0.30	0.00	-28.00	0.00	28.00	1490.10	475.94	99948.2	1339.68	0.05	-0.02	0.00	0.035
19.00	-21.38	-0.30	0.00	-27.71	0.00	27.71	1490.10	475.94	99948.2	1339.68	0.05	-0.02	0.00	0.035
20.00	-21.16	-0.30	0.00	-27.41	0.00	27.41	1490.10	475.94	99948.2	1339.68	0.06	-0.03	0.00	0.035
20.00	-21.16	-0.30	0.00	-27.41	0.00	27.41	1311.06	395.78	69116.5	948.43	0.06	-0.03	0.00	0.045
21.00	-20.97	-0.30	0.00	-27.11	0.00	27.11	1311.06	395.78	69116.5	948.43	0.06	-0.03	0.00	0.045
22.00	-20.78	-0.30	0.00	-26.82	0.00	26.82	1311.06	395.78	69116.5	948.43	0.07	-0.03	0.00	0.044
23.00	-20.58	-0.30	0.00	-26.52	0.00	26.52	1311.06	395.78	69116.5	948.43	0.07	-0.03	0.00	0.044
24.00	-20.39	-0.30	0.00	-26.22	0.00	26.22	1311.06	395.78	69116.5	948.43	0.08	-0.03	0.00	0.043
25.00	-20.20	-0.30	0.00	-25.93	0.00	25.93	1311.06	395.78	69116.5	948.43	0.09	-0.03	0.00	0.043
26.00	-20.01	-0.30	0.00	-25.63	0.00	25.63	1311.06	395.78	69116.5	948.43	0.10	-0.04	0.00	0.042
27.00	-19.82	-0.30	0.00	-25.33	0.00	25.33	1311.06	395.78	69116.5	948.43	0.10	-0.04	0.00	0.042
28.00	-19.62	-0.30	0.00	-25.03	0.00	25.03	1311.06	395.78	69116.5	948.43	0.11	-0.04	0.00	0.041
29.00	-19.43	-0.30	0.00	-24.73	0.00	24.73	1311.06	395.78	69116.5	948.43	0.12	-0.04	0.00	0.041
30.00	-19.24	-0.30	0.00	-24.43	0.00	24.43	1311.06	395.78	69116.5	948.43	0.13	-0.04	0.00	0.040
31.00	-19.05	-0.30	0.00	-24.13	0.00	24.13	1311.06	395.78	69116.5	948.43	0.14	-0.05	0.00	0.040
32.00	-18.85	-0.30	0.00	-23.83	0.00	23.83	1311.06	395.78	69116.5	948.43	0.15	-0.05	0.00	0.040
33.00	-18.66	-0.30	0.00	-23.53	0.00	23.53	1311.06	395.78	69116.5	948.43	0.16	-0.05	0.00	0.039
34.00	-18.47	-0.30	0.00	-23.23	0.00	23.23	1311.06	395.78	69116.5	948.43	0.17	-0.05	0.00	0.039
35.00	-18.28	-0.30	0.00	-22.93	0.00	22.93	1311.06	395.78	69116.5	948.43	0.18	-0.05	0.00	0.038
36.00	-18.08	-0.30	0.00	-22.63	0.00	22.63	1311.06	395.78	69116.5	948.43	0.19	-0.05	0.00	0.038
37.00	-17.89	-0.30	0.00	-22.33	0.00	22.33	1311.06	395.78	69116.5	948.43	0.20	-0.06	0.00	0.037
38.00	-17.70	-0.30	0.00	-22.04	0.00	22.04	1311.06	395.78	69116.5	948.43	0.22	-0.06	0.00	0.037
39.00	-17.51	-0.30	0.00	-21.74	0.00	21.74	1311.06	395.78	69116.5	948.43	0.23	-0.06	0.00	0.036
40.00	-17.31	-0.30	0.00	-21.44	0.00	21.44	1311.06	395.78	69116.5	948.43	0.24	-0.06	0.00	0.036
41.00	-17.12	-0.30	0.00	-21.14	0.00	21.14	1311.06	395.78	69116.5	948.43	0.25	-0.06	0.00	0.035
42.00	-16.93	-0.30	0.00	-20.84	0.00	20.84	1311.06	395.78	69116.5	948.43	0.27	-0.06	0.00	0.035
43.00	-16.74	-0.30	0.00	-20.54	0.00	20.54	1311.06	395.78	69116.5	948.43	0.28	-0.07	0.00	0.034
44.00	-16.54	-0.30	0.00	-20.25	0.00	20.25	1311.06	395.78	69116.5	948.43	0.29	-0.07	0.00	0.034
45.00	-16.35	-0.30	0.00	-19.95	0.00	19.95	1311.06	395.78	69116.5	948.43	0.31	-0.07	0.00	0.034

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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46.00	-16.16	-0.30	0.00	-19.65	0.00	19.65	1311.06	395.78	69116.5	948.43	0.32	-0.07	0.033
47.00	-15.97	-0.30	0.00	-19.36	0.00	19.36	1311.06	395.78	69116.5	948.43	0.34	-0.07	0.033
48.00	-15.78	-0.29	0.00	-19.06	0.00	19.06	1311.06	395.78	69116.5	948.43	0.35	-0.07	0.032
49.00	-15.58	-0.29	0.00	-18.77	0.00	18.77	1311.06	395.78	69116.5	948.43	0.37	-0.07	0.032
50.00	-15.39	-0.29	0.00	-18.47	0.00	18.47	1311.06	395.78	69116.5	948.43	0.38	-0.08	0.031
50.00	-15.39	-0.29	0.00	-18.47	0.00	18.47	1052.07	315.62	43955.0	624.04	0.38	-0.08	0.044
51.00	-15.23	-0.29	0.00	-18.18	0.00	18.18	1052.07	315.62	43955.0	624.04	0.40	-0.08	0.044
52.00	-15.07	-0.29	0.00	-17.89	0.00	17.89	1052.07	315.62	43955.0	624.04	0.42	-0.08	0.043
53.00	-14.90	-0.29	0.00	-17.59	0.00	17.59	1052.07	315.62	43955.0	624.04	0.43	-0.08	0.042
54.00	-14.74	-0.29	0.00	-17.30	0.00	17.30	1052.07	315.62	43955.0	624.04	0.45	-0.09	0.042
55.00	-14.58	-0.29	0.00	-17.01	0.00	17.01	1052.07	315.62	43955.0	624.04	0.47	-0.09	0.041
56.00	-14.42	-0.29	0.00	-16.72	0.00	16.72	1052.07	315.62	43955.0	624.04	0.49	-0.09	0.040
57.00	-14.25	-0.29	0.00	-16.43	0.00	16.43	1052.07	315.62	43955.0	624.04	0.51	-0.09	0.040
58.00	-14.09	-0.29	0.00	-16.14	0.00	16.14	1052.07	315.62	43955.0	624.04	0.53	-0.10	0.039
59.00	-13.93	-0.29	0.00	-15.85	0.00	15.85	1052.07	315.62	43955.0	624.04	0.55	-0.10	0.039
60.00	-13.77	-0.29	0.00	-15.56	0.00	15.56	1052.07	315.62	43955.0	624.04	0.57	-0.10	0.038
61.00	-13.60	-0.29	0.00	-15.27	0.00	15.27	1052.07	315.62	43955.0	624.04	0.59	-0.10	0.037
62.00	-13.44	-0.29	0.00	-14.98	0.00	14.98	1052.07	315.62	43955.0	624.04	0.61	-0.10	0.037
63.00	-13.28	-0.29	0.00	-14.69	0.00	14.69	1052.07	315.62	43955.0	624.04	0.63	-0.11	0.036
64.00	-13.12	-0.29	0.00	-14.41	0.00	14.41	1052.07	315.62	43955.0	624.04	0.66	-0.11	0.036
65.00	-12.95	-0.28	0.00	-14.12	0.00	14.12	1052.07	315.62	43955.0	624.04	0.68	-0.11	0.035
66.00	-12.79	-0.28	0.00	-13.84	0.00	13.84	1052.07	315.62	43955.0	624.04	0.70	-0.11	0.034
67.00	-12.63	-0.28	0.00	-13.55	0.00	13.55	1052.07	315.62	43955.0	624.04	0.73	-0.11	0.034
68.00	-12.47	-0.28	0.00	-13.27	0.00	13.27	1052.07	315.62	43955.0	624.04	0.75	-0.12	0.033
69.00	-12.30	-0.28	0.00	-12.99	0.00	12.99	1052.07	315.62	43955.0	624.04	0.77	-0.12	0.033
70.00	-12.14	-0.28	0.00	-12.71	0.00	12.71	1052.07	315.62	43955.0	624.04	0.80	-0.12	0.032
71.00	-11.98	-0.28	0.00	-12.43	0.00	12.43	1052.07	315.62	43955.0	624.04	0.83	-0.12	0.031
72.00	-11.82	-0.28	0.00	-12.15	0.00	12.15	1052.07	315.62	43955.0	624.04	0.85	-0.12	0.031
73.00	-11.65	-0.28	0.00	-11.88	0.00	11.88	1052.07	315.62	43955.0	624.04	0.88	-0.13	0.030
74.00	-11.49	-0.27	0.00	-11.60	0.00	11.60	1052.07	315.62	43955.0	624.04	0.90	-0.13	0.030
75.00	-11.32	-0.27	0.00	-11.33	0.00	11.33	1052.07	315.62	43955.0	624.04	0.93	-0.13	0.029
76.00	-11.15	-0.27	0.00	-11.05	0.00	11.05	1052.07	315.62	43955.0	624.04	0.96	-0.13	0.028
77.00	-10.99	-0.27	0.00	-10.78	0.00	10.78	1052.07	315.62	43955.0	624.04	0.99	-0.13	0.028
78.00	-10.83	-0.27	0.00	-10.52	0.00	10.52	1052.07	315.62	43955.0	624.04	1.01	-0.13	0.027
79.00	-10.67	-0.27	0.00	-10.25	0.00	10.25	1052.07	315.62	43955.0	624.04	1.04	-0.14	0.027
80.00	-10.51	-0.26	0.00	-9.98	0.00	9.98	1052.07	315.62	43955.0	624.04	1.07	-0.14	0.026
80.00	-10.51	-0.26	0.00	-9.98	0.00	9.98	1052.07	315.62	43955.0	624.04	1.07	-0.14	0.026
81.00	-10.34	-0.26	0.00	-9.72	0.00	9.72	1052.07	315.62	43955.0	624.04	1.10	-0.14	0.025
82.00	-10.18	-0.26	0.00	-9.46	0.00	9.46	1052.07	315.62	43955.0	624.04	1.13	-0.14	0.025
83.00	-10.02	-0.26	0.00	-9.20	0.00	9.20	1052.07	315.62	43955.0	624.04	1.16	-0.14	0.024
84.00	-9.86	-0.26	0.00	-8.94	0.00	8.94	1052.07	315.62	43955.0	624.04	1.19	-0.14	0.024
85.00	-9.69	-0.25	0.00	-8.68	0.00	8.68	1052.07	315.62	43955.0	624.04	1.22	-0.14	0.023
86.00	-9.53	-0.25	0.00	-8.43	0.00	8.43	1052.07	315.62	43955.0	624.04	1.25	-0.15	0.023
87.00	-9.37	-0.25	0.00	-8.18	0.00	8.18	1052.07	315.62	43955.0	624.04	1.28	-0.15	0.022
88.00	-9.21	-0.25	0.00	-7.93	0.00	7.93	1052.07	315.62	43955.0	624.04	1.31	-0.15	0.021
89.00	-9.05	-0.25	0.00	-7.68	0.00	7.68	1052.07	315.62	43955.0	624.04	1.34	-0.15	0.021
90.00	-8.88	-0.24	0.00	-7.43	0.00	7.43	1052.07	315.62	43955.0	624.04	1.37	-0.15	0.020
91.00	-8.72	-0.24	0.00	-7.19	0.00	7.19	1052.07	315.62	43955.0	624.04	1.40	-0.15	0.020
92.00	-8.56	-0.24	0.00	-6.95	0.00	6.95	1052.07	315.62	43955.0	624.04	1.43	-0.15	0.019
93.00	-8.40	-0.24	0.00	-6.71	0.00	6.71	1052.07	315.62	43955.0	624.04	1.47	-0.15	0.019
94.00	-8.23	-0.23	0.00	-6.48	0.00	6.48	1052.07	315.62	43955.0	624.04	1.50	-0.15	0.018
95.00	-8.07	-0.23	0.00	-6.24	0.00	6.24	1052.07	315.62	43955.0	624.04	1.53	-0.15	0.018
96.00	-7.91	-0.23	0.00	-6.01	0.00	6.01	1052.07	315.62	43955.0	624.04	1.56	-0.16	0.017
97.00	-7.75	-0.22	0.00	-5.79	0.00	5.79	1052.07	315.62	43955.0	624.04	1.60	-0.16	0.017
98.00	-7.58	-0.22	0.00	-5.56	0.00	5.56	1052.07	315.62	43955.0	624.04	1.63	-0.16	0.016
99.00	-7.42	-0.22	0.00	-5.34	0.00	5.34	1052.07	315.62	43955.0	624.04	1.66	-0.16	0.016
100.00	-7.26	-0.22	0.00	-5.12	0.00	5.12	1052.07	315.62	43955.0	624.04	1.70	-0.16	0.015

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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101.00	-7.10	-0.21	0.00	-4.90	0.00	4.90	1052.07	315.62	43955.0	624.04	1.73	-0.16	0.015
102.00	-6.94	-0.21	0.00	-4.69	0.00	4.69	1052.07	315.62	43955.0	624.04	1.76	-0.16	0.014
103.00	-6.77	-0.21	0.00	-4.48	0.00	4.48	1052.07	315.62	43955.0	624.04	1.80	-0.16	0.014
104.00	-6.61	-0.20	0.00	-4.27	0.00	4.27	1052.07	315.62	43955.0	624.04	1.83	-0.16	0.013
105.00	-6.45	-0.20	0.00	-4.07	0.00	4.07	1052.07	315.62	43955.0	624.04	1.86	-0.16	0.013
106.00	-6.29	-0.20	0.00	-3.87	0.00	3.87	1052.07	315.62	43955.0	624.04	1.90	-0.16	0.012
107.00	-6.12	-0.19	0.00	-3.67	0.00	3.67	1052.07	315.62	43955.0	624.04	1.93	-0.16	0.012
108.00	-5.95	-0.19	0.00	-3.48	0.00	3.48	1052.07	315.62	43955.0	624.04	1.97	-0.16	0.011
108.00	-5.95	-0.19	0.00	-3.48	0.00	3.48	1052.07	315.62	43955.0	624.04	1.97	-0.16	0.011
109.00	-5.77	-0.19	0.00	-3.29	0.00	3.29	1052.07	315.62	43955.0	624.04	2.00	-0.16	0.011
110.00	-5.50	-0.18	0.00	-3.10	0.00	3.10	1052.07	315.62	43955.0	624.04	2.03	-0.16	0.007
110.00	-5.50	-0.18	0.00	-3.10	0.00	3.10	682.83	204.85	11780.8	105.20	2.03	-0.16	0.004
111.00	-5.37	-0.18	0.00	-2.92	0.00	2.92	682.83	204.85	11780.8	105.20	2.07	-0.17	0.012
111.50	-5.30	-0.18	0.00	-2.84	0.00	2.84	682.83	204.85	11780.8	105.20	2.09	-0.17	0.012
111.50	-5.30	-0.18	0.00	-2.84	0.00	2.84	682.83	204.85	11780.8	105.20	2.09	-0.17	0.024
112.00	-5.24	-0.18	0.00	-2.75	0.00	2.75	682.83	204.85	11780.8	105.20	2.10	-0.17	0.034
113.00	-5.10	-0.17	0.00	-2.57	0.00	2.57	682.83	204.85	11780.8	105.20	2.14	-0.18	0.032
114.00	-4.97	-0.17	0.00	-2.40	0.00	2.40	682.83	204.85	11780.8	105.20	2.18	-0.19	0.030
115.00	-4.36	-0.13	0.00	-2.23	0.00	2.23	682.83	204.85	11780.8	105.20	2.22	-0.20	0.028
116.00	-4.24	-0.13	0.00	-2.10	0.00	2.10	682.83	204.85	11780.8	105.20	2.26	-0.20	0.026
117.00	-4.11	-0.12	0.00	-1.97	0.00	1.97	682.83	204.85	11780.8	105.20	2.30	-0.21	0.025
118.00	-3.99	-0.12	0.00	-1.85	0.00	1.85	682.83	204.85	11780.8	105.20	2.35	-0.22	0.023
119.00	-3.86	-0.12	0.00	-1.73	0.00	1.73	682.83	204.85	11780.8	105.20	2.40	-0.23	0.022
120.00	-3.58	-0.11	0.00	-1.61	0.00	1.61	682.83	204.85	11780.8	105.20	2.44	-0.23	0.021
121.00	-3.45	-0.11	0.00	-1.50	0.00	1.50	682.83	204.85	11780.8	105.20	2.49	-0.24	0.019
122.00	-3.33	-0.11	0.00	-1.39	0.00	1.39	682.83	204.85	11780.8	105.20	2.54	-0.24	0.018
123.00	-3.20	-0.10	0.00	-1.29	0.00	1.29	682.83	204.85	11780.8	105.20	2.60	-0.25	0.017
124.00	-3.08	-0.10	0.00	-1.18	0.00	1.18	682.83	204.85	11780.8	105.20	2.65	-0.25	0.016
125.00	-2.95	-0.10	0.00	-1.08	0.00	1.08	682.83	204.85	11780.8	105.20	2.70	-0.26	0.015
126.00	-2.83	-0.10	0.00	-0.98	0.00	0.98	682.83	204.85	11780.8	105.20	2.76	-0.26	0.013
127.00	-2.50	-0.08	0.00	-0.89	0.00	0.89	682.83	204.85	11780.8	105.20	2.81	-0.27	0.012
128.00	-2.38	-0.08	0.00	-0.81	0.00	0.81	682.83	204.85	11780.8	105.20	2.87	-0.27	0.011
129.00	-2.27	-0.08	0.00	-0.73	0.00	0.73	682.83	204.85	11780.8	105.20	2.93	-0.27	0.010
130.00	-2.00	-0.06	0.00	-0.65	0.00	0.65	682.83	204.85	11780.8	105.20	2.98	-0.27	0.009
130.00	-2.00	-0.06	0.00	-0.65	0.00	0.65	317.71	95.31	3734.62	52.28	2.98	-0.27	0.019
131.00	-1.92	-0.06	0.00	-0.59	0.00	0.59	317.71	95.31	3734.62	52.28	3.04	-0.28	0.017
132.00	-1.85	-0.06	0.00	-0.53	0.00	0.53	317.71	95.31	3734.62	52.28	3.10	-0.28	0.016
133.00	-1.78	-0.06	0.00	-0.47	0.00	0.47	317.71	95.31	3734.62	52.28	3.16	-0.28	0.015
134.00	-1.71	-0.06	0.00	-0.41	0.00	0.41	317.71	95.31	3734.62	52.28	3.22	-0.29	0.013
135.00	-1.38	-0.04	0.00	-0.35	0.00	0.35	317.71	95.31	3734.62	52.28	3.28	-0.29	0.011
136.00	-1.32	-0.04	0.00	-0.31	0.00	0.31	317.71	95.31	3734.62	52.28	3.34	-0.29	0.010
137.00	-1.25	-0.04	0.00	-0.26	0.00	0.26	317.71	95.31	3734.62	52.28	3.40	-0.29	0.009
138.00	-1.19	-0.04	0.00	-0.22	0.00	0.22	317.71	95.31	3734.62	52.28	3.46	-0.30	0.008
139.00	-1.13	-0.04	0.00	-0.19	0.00	0.19	317.71	95.31	3734.62	52.28	3.53	-0.30	0.007
140.00	-0.87	-0.03	0.00	-0.15	0.00	0.15	317.71	95.31	3734.62	52.28	3.59	-0.30	0.006
141.00	-0.81	-0.03	0.00	-0.12	0.00	0.12	317.71	95.31	3734.62	52.28	3.65	-0.30	0.005
142.00	-0.75	-0.02	0.00	-0.10	0.00	0.10	317.71	95.31	3734.62	52.28	3.71	-0.30	0.004
143.00	-0.69	-0.02	0.00	-0.07	0.00	0.07	317.71	95.31	3734.62	52.28	3.78	-0.30	0.004
144.00	-0.62	-0.02	0.00	-0.05	0.00	0.05	317.71	95.31	3734.62	52.28	3.84	-0.30	0.003
145.00	-0.32	-0.01	0.00	-0.02	0.00	0.02	317.71	95.31	3734.62	52.28	3.90	-0.30	0.001
146.00	-0.27	-0.01	0.00	-0.02	0.00	0.02	317.71	95.31	3734.62	52.28	3.97	-0.30	0.001
147.00	-0.23	0.00	0.00	-0.01	0.00	0.01	317.71	95.31	3734.62	52.28	4.03	-0.30	0.001
148.00	-0.18	0.00	0.00	-0.01	0.00	0.01	317.71	95.31	3734.62	52.28	4.09	-0.30	0.001
149.00	-0.13	0.00	0.00	0.00	0.00	0.00	317.71	95.31	3734.62	52.28	4.16	-0.30	0.000
150.00	0.00	0.00	0.00	0.00	0.00	0.00	317.71	95.31	3734.62	52.28	4.22	-0.30	0.000

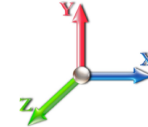
Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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 + 1.0Ev + 1.0Eh						Iterations 36
Gust Response Factor	1.10			Sds 0.21		Ss 0.20
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1 0.09		S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.32	SA 0.03	Seismic Importance Factor	1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
1.00		175.02	0.50	7.47	0.00	
2.00		175.02	1.50	7.47	0.00	
3.00		175.02	2.50	7.47	0.00	
4.00		175.02	3.50	7.47	0.01	
5.00		175.02	4.50	7.47	0.01	
6.00		175.02	5.50	7.47	0.01	
7.00		175.02	6.50	7.47	0.02	
8.00		175.02	7.50	7.47	0.03	
9.00		175.02	8.50	7.47	0.03	
10.00		175.02	9.50	7.47	0.04	
11.00		175.02	10.50	7.47	0.05	
12.00		175.02	11.50	7.47	0.06	
13.00		175.02	12.50	7.47	0.07	
14.00		175.02	13.50	7.47	0.09	
15.00		175.02	14.50	7.47	0.10	
16.00		175.02	15.50	7.47	0.11	
17.00		175.02	16.50	7.47	0.13	
18.00		175.02	17.50	7.47	0.15	
19.00		175.02	18.50	7.47	0.16	
20.00	Top - Section 1	175.02	19.50	7.47	0.18	
21.00		150.96	20.50	6.44	0.15	
22.00		150.96	21.50	6.44	0.16	
23.00		150.96	22.50	6.44	0.18	
24.00		150.96	23.50	6.44	0.19	
25.00		150.96	24.50	6.44	0.21	
26.00		150.96	25.50	6.44	0.23	
27.00		150.96	26.50	6.44	0.25	
28.00		150.96	27.50	6.44	0.27	
29.00		150.96	28.50	6.44	0.29	
30.00		150.96	29.50	6.44	0.31	
31.00		150.96	30.50	6.44	0.33	
32.00		150.96	31.50	6.44	0.35	
33.00		150.96	32.50	6.44	0.37	
34.00		150.96	33.50	6.44	0.40	
35.00		150.96	34.50	6.44	0.42	
36.00		150.96	35.50	6.44	0.44	
37.00		150.96	36.50	6.44	0.47	
38.00		150.96	37.50	6.44	0.50	
39.00		150.96	38.50	6.44	0.52	
40.00		150.96	39.50	6.44	0.55	
41.00		150.96	40.50	6.44	0.58	
42.00		150.96	41.50	6.44	0.61	
43.00		150.96	42.50	6.44	0.64	
44.00		150.96	43.50	6.44	0.67	
45.00		150.96	44.50	6.44	0.70	

Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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46.00		150.96	45.50	6.44	0.73
47.00		150.96	46.50	6.44	0.76
48.00		150.96	47.50	6.44	0.80
49.00		150.96	48.50	6.44	0.83
50.00	Top - Section 2	150.96	49.50	6.44	0.86
51.00		126.91	50.50	5.41	0.64
52.00		126.91	51.50	5.41	0.66
53.00		126.91	52.50	5.41	0.69
54.00		126.91	53.50	5.41	0.71
55.00		126.91	54.50	5.41	0.74
56.00		126.91	55.50	5.41	0.77
57.00		126.91	56.50	5.41	0.80
58.00		126.91	57.50	5.41	0.82
59.00		126.91	58.50	5.41	0.85
60.00		126.91	59.50	5.41	0.88
61.00		126.91	60.50	5.41	0.91
62.00		126.91	61.50	5.41	0.94
63.00		126.91	62.50	5.41	0.97
64.00		126.91	63.50	5.41	1.01
65.00		126.91	64.50	5.41	1.04
66.00		126.91	65.50	5.41	1.07
67.00		126.91	66.50	5.41	1.10
68.00		126.91	67.50	5.41	1.14
69.00		126.91	68.50	5.41	1.17
70.00		126.91	69.50	5.41	1.20
71.00		126.91	70.50	5.41	1.24
72.00		126.91	71.50	5.41	1.27
73.00		126.91	72.50	5.41	1.31
74.00		126.91	73.50	5.41	1.35
75.00	Appurtenance(s)	136.91	74.50	5.84	1.61
76.00		126.77	75.50	5.41	1.42
77.00		126.77	76.50	5.41	1.46
78.00		126.77	77.50	5.41	1.49
79.00		126.77	78.50	5.41	1.53
80.00	Top - Section 3	126.77	79.50	5.41	1.57
81.00		126.77	80.50	5.41	1.61
82.00		126.77	81.50	5.41	1.65
83.00		126.77	82.50	5.41	1.69
84.00		126.77	83.50	5.41	1.73
85.00		126.77	84.50	5.41	1.78
86.00		126.77	85.50	5.41	1.82
87.00		126.77	86.50	5.41	1.86
88.00		126.77	87.50	5.41	1.90
89.00		126.77	88.50	5.41	1.95
90.00		126.77	89.50	5.41	1.99
91.00		126.77	90.50	5.41	2.04
92.00		126.77	91.50	5.41	2.08
93.00		126.77	92.50	5.41	2.13
94.00		126.77	93.50	5.41	2.18
95.00		126.77	94.50	5.41	2.22
96.00		126.77	95.50	5.41	2.27
97.00		126.77	96.50	5.41	2.32
98.00		126.77	97.50	5.41	2.37
99.00		126.77	98.50	5.41	2.41
100.00		126.77	99.50	5.41	2.46
101.00		126.77	100.50	5.41	2.51
102.00		126.77	101.50	5.41	2.56

Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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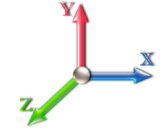
103.00		126.77	102.50	5.41	2.61
104.00		126.77	103.50	5.41	2.67
105.00		126.77	104.50	5.41	2.72
106.00		126.77	105.50	5.41	2.77
107.00		126.77	106.50	5.41	2.82
108.00	Top - Section 4	139.68	107.50	5.96	3.49
109.00		126.77	108.50	5.41	2.93
110.00	Top - Section 5 RB1	204.25	109.50	8.71	7.74
111.00		93.53	110.50	3.99	1.65
111.50	RT1	46.76	111.25	2.00	0.42
112.00		46.76	111.75	2.00	0.42
113.00		93.53	112.50	3.99	1.71
114.00		93.53	113.50	3.99	1.74
115.00	Appurtenance(s)	478.83	114.50	20.43	46.54
116.00		87.91	115.50	3.75	1.60
117.00		87.91	116.50	3.75	1.62
118.00		87.91	117.50	3.75	1.65
119.00		87.91	118.50	3.75	1.68
120.00	Appurtenance(s)	217.05	119.50	9.26	10.42
121.00		87.91	120.50	3.75	1.74
122.00		87.91	121.50	3.75	1.77
123.00		87.91	122.50	3.75	1.80
124.00		87.91	123.50	3.75	1.82
125.00		87.91	124.50	3.75	1.85
126.00		87.91	125.50	3.75	1.88
127.00	Appurtenance(s)	254.81	126.50	10.87	16.09
128.00		79.86	127.50	3.41	1.61
129.00		79.86	128.50	3.41	1.63
130.00	Top - Section 6	209.00	129.50	8.92	11.34
131.00		47.00	130.50	2.01	0.58
132.00		47.00	131.50	2.01	0.59
133.00		47.00	132.50	2.01	0.60
134.00		47.00	133.50	2.01	0.61
135.00	Appurtenance(s)	252.30	134.50	10.76	17.83
136.00		39.83	135.50	1.70	0.45
137.00		39.83	136.50	1.70	0.46
138.00		39.83	137.50	1.70	0.46
139.00		39.83	138.50	1.70	0.47
140.00	Appurtenance(s)	193.97	139.50	8.28	11.34
141.00		39.83	140.50	1.70	0.48
142.00		39.83	141.50	1.70	0.49
143.00		39.83	142.50	1.70	0.50
144.00		39.83	143.50	1.70	0.51
145.00	Appurtenance(s)	231.83	144.50	9.89	17.37
146.00		28.60	145.50	1.22	0.27
147.00		28.60	146.50	1.22	0.27
148.00		28.60	147.50	1.22	0.28
149.00		28.60	148.50	1.22	0.28
150.00	Appurtenance(s)	98.17	149.50	4.19	3.33
	Totals:	19,709.1		840.9	288.9
					Total Wind: 11,185.0

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0Ev + 1.0Eh										Iterations 36
Gust Response Factor 1.10					Sds 0.21					Ss 0.20
Dead Load Factor 0.90			Seismic Load Factor 1.00			Sd1 0.09				S1 0.06
Wind Load Factor 0.00		Structure Frequency (f1) 0.32		SA 0.03		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	-19.37	-0.29	0.00	-32.87	0.00	32.87	1490.10	475.94	99948.2	1339.68	0.00	0.00	0.00	0.038
1.00	-19.20	-0.29	0.00	-32.58	0.00	32.58	1490.10	475.94	99948.2	1339.68	0.00	0.00	0.00	0.037
2.00	-19.03	-0.29	0.00	-32.29	0.00	32.29	1490.10	475.94	99948.2	1339.68	0.00	0.00	0.00	0.037
3.00	-18.86	-0.29	0.00	-32.00	0.00	32.00	1490.10	475.94	99948.2	1339.68	0.00	0.00	0.00	0.037
4.00	-18.70	-0.29	0.00	-31.71	0.00	31.71	1490.10	475.94	99948.2	1339.68	0.00	-0.01	0.00	0.036
5.00	-18.53	-0.29	0.00	-31.43	0.00	31.43	1490.10	475.94	99948.2	1339.68	0.00	-0.01	0.00	0.036
6.00	-18.36	-0.29	0.00	-31.14	0.00	31.14	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.036
7.00	-18.19	-0.29	0.00	-30.85	0.00	30.85	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.035
8.00	-18.02	-0.29	0.00	-30.56	0.00	30.56	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.035
9.00	-17.86	-0.29	0.00	-30.26	0.00	30.26	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.035
10.00	-17.69	-0.29	0.00	-29.97	0.00	29.97	1490.10	475.94	99948.2	1339.68	0.01	-0.01	0.00	0.034
11.00	-17.52	-0.29	0.00	-29.68	0.00	29.68	1490.10	475.94	99948.2	1339.68	0.02	-0.01	0.00	0.034
12.00	-17.35	-0.29	0.00	-29.39	0.00	29.39	1490.10	475.94	99948.2	1339.68	0.02	-0.02	0.00	0.034
13.00	-17.18	-0.29	0.00	-29.10	0.00	29.10	1490.10	475.94	99948.2	1339.68	0.02	-0.02	0.00	0.033
14.00	-17.01	-0.29	0.00	-28.81	0.00	28.81	1490.10	475.94	99948.2	1339.68	0.03	-0.02	0.00	0.033
15.00	-16.85	-0.29	0.00	-28.51	0.00	28.51	1490.10	475.94	99948.2	1339.68	0.03	-0.02	0.00	0.033
16.00	-16.68	-0.29	0.00	-28.22	0.00	28.22	1490.10	475.94	99948.2	1339.68	0.04	-0.02	0.00	0.032
17.00	-16.51	-0.29	0.00	-27.93	0.00	27.93	1490.10	475.94	99948.2	1339.68	0.04	-0.02	0.00	0.032
18.00	-16.34	-0.29	0.00	-27.64	0.00	27.64	1490.10	475.94	99948.2	1339.68	0.05	-0.02	0.00	0.032
19.00	-16.17	-0.29	0.00	-27.34	0.00	27.34	1490.10	475.94	99948.2	1339.68	0.05	-0.02	0.00	0.031
20.00	-16.00	-0.29	0.00	-27.05	0.00	27.05	1490.10	475.94	99948.2	1339.68	0.06	-0.03	0.00	0.031
20.00	-16.00	-0.29	0.00	-27.05	0.00	27.05	1311.06	395.78	69116.5	948.43	0.06	-0.03	0.00	0.041
21.00	-15.86	-0.29	0.00	-26.76	0.00	26.76	1311.06	395.78	69116.5	948.43	0.06	-0.03	0.00	0.040
22.00	-15.71	-0.29	0.00	-26.46	0.00	26.46	1311.06	395.78	69116.5	948.43	0.07	-0.03	0.00	0.040
23.00	-15.57	-0.29	0.00	-26.17	0.00	26.17	1311.06	395.78	69116.5	948.43	0.07	-0.03	0.00	0.039
24.00	-15.42	-0.29	0.00	-25.87	0.00	25.87	1311.06	395.78	69116.5	948.43	0.08	-0.03	0.00	0.039
25.00	-15.28	-0.29	0.00	-25.58	0.00	25.58	1311.06	395.78	69116.5	948.43	0.09	-0.03	0.00	0.039
26.00	-15.13	-0.29	0.00	-25.29	0.00	25.29	1311.06	395.78	69116.5	948.43	0.09	-0.04	0.00	0.038
27.00	-14.99	-0.29	0.00	-24.99	0.00	24.99	1311.06	395.78	69116.5	948.43	0.10	-0.04	0.00	0.038
28.00	-14.84	-0.29	0.00	-24.70	0.00	24.70	1311.06	395.78	69116.5	948.43	0.11	-0.04	0.00	0.037
29.00	-14.70	-0.30	0.00	-24.40	0.00	24.40	1311.06	395.78	69116.5	948.43	0.12	-0.04	0.00	0.037
30.00	-14.55	-0.30	0.00	-24.11	0.00	24.11	1311.06	395.78	69116.5	948.43	0.13	-0.04	0.00	0.037
31.00	-14.40	-0.30	0.00	-23.81	0.00	23.81	1311.06	395.78	69116.5	948.43	0.14	-0.05	0.00	0.036
32.00	-14.26	-0.30	0.00	-23.52	0.00	23.52	1311.06	395.78	69116.5	948.43	0.15	-0.05	0.00	0.036
33.00	-14.11	-0.29	0.00	-23.22	0.00	23.22	1311.06	395.78	69116.5	948.43	0.16	-0.05	0.00	0.035
34.00	-13.97	-0.29	0.00	-22.93	0.00	22.93	1311.06	395.78	69116.5	948.43	0.17	-0.05	0.00	0.035
35.00	-13.82	-0.29	0.00	-22.63	0.00	22.63	1311.06	395.78	69116.5	948.43	0.18	-0.05	0.00	0.034
36.00	-13.68	-0.29	0.00	-22.34	0.00	22.34	1311.06	395.78	69116.5	948.43	0.19	-0.05	0.00	0.034
37.00	-13.53	-0.29	0.00	-22.04	0.00	22.04	1311.06	395.78	69116.5	948.43	0.20	-0.06	0.00	0.034
38.00	-13.39	-0.29	0.00	-21.75	0.00	21.75	1311.06	395.78	69116.5	948.43	0.21	-0.06	0.00	0.033
39.00	-13.24	-0.29	0.00	-21.45	0.00	21.45	1311.06	395.78	69116.5	948.43	0.22	-0.06	0.00	0.033
40.00	-13.09	-0.29	0.00	-21.16	0.00	21.16	1311.06	395.78	69116.5	948.43	0.24	-0.06	0.00	0.032
41.00	-12.95	-0.29	0.00	-20.87	0.00	20.87	1311.06	395.78	69116.5	948.43	0.25	-0.06	0.00	0.032
42.00	-12.80	-0.29	0.00	-20.57	0.00	20.57	1311.06	395.78	69116.5	948.43	0.26	-0.06	0.00	0.031
43.00	-12.66	-0.29	0.00	-20.28	0.00	20.28	1311.06	395.78	69116.5	948.43	0.28	-0.07	0.00	0.031
44.00	-12.51	-0.29	0.00	-19.99	0.00	19.99	1311.06	395.78	69116.5	948.43	0.29	-0.07	0.00	0.031
45.00	-12.37	-0.29	0.00	-19.70	0.00	19.70	1311.06	395.78	69116.5	948.43	0.30	-0.07	0.00	0.030

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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46.00	-12.22	-0.29	0.00	-19.41	0.00	19.41	1311.06	395.78	69116.5	948.43	0.32	-0.07	0.030
47.00	-12.08	-0.29	0.00	-19.12	0.00	19.12	1311.06	395.78	69116.5	948.43	0.33	-0.07	0.029
48.00	-11.93	-0.29	0.00	-18.83	0.00	18.83	1311.06	395.78	69116.5	948.43	0.35	-0.07	0.029
49.00	-11.78	-0.29	0.00	-18.54	0.00	18.54	1311.06	395.78	69116.5	948.43	0.36	-0.07	0.029
50.00	-11.64	-0.29	0.00	-18.25	0.00	18.25	1311.06	395.78	69116.5	948.43	0.38	-0.08	0.028
50.00	-11.64	-0.29	0.00	-18.25	0.00	18.25	1052.07	315.62	43955.0	624.04	0.38	-0.08	0.040
51.00	-11.52	-0.29	0.00	-17.96	0.00	17.96	1052.07	315.62	43955.0	624.04	0.40	-0.08	0.040
52.00	-11.39	-0.29	0.00	-17.67	0.00	17.67	1052.07	315.62	43955.0	624.04	0.41	-0.08	0.039
53.00	-11.27	-0.29	0.00	-17.39	0.00	17.39	1052.07	315.62	43955.0	624.04	0.43	-0.08	0.039
54.00	-11.15	-0.29	0.00	-17.10	0.00	17.10	1052.07	315.62	43955.0	624.04	0.45	-0.08	0.038
55.00	-11.02	-0.29	0.00	-16.81	0.00	16.81	1052.07	315.62	43955.0	624.04	0.46	-0.09	0.037
56.00	-10.90	-0.29	0.00	-16.53	0.00	16.53	1052.07	315.62	43955.0	624.04	0.48	-0.09	0.037
57.00	-10.78	-0.28	0.00	-16.24	0.00	16.24	1052.07	315.62	43955.0	624.04	0.50	-0.09	0.036
58.00	-10.66	-0.28	0.00	-15.96	0.00	15.96	1052.07	315.62	43955.0	624.04	0.52	-0.09	0.036
59.00	-10.53	-0.28	0.00	-15.67	0.00	15.67	1052.07	315.62	43955.0	624.04	0.54	-0.10	0.035
60.00	-10.41	-0.28	0.00	-15.39	0.00	15.39	1052.07	315.62	43955.0	624.04	0.56	-0.10	0.035
61.00	-10.29	-0.28	0.00	-15.11	0.00	15.11	1052.07	315.62	43955.0	624.04	0.58	-0.10	0.034
62.00	-10.16	-0.28	0.00	-14.83	0.00	14.83	1052.07	315.62	43955.0	624.04	0.60	-0.10	0.033
63.00	-10.04	-0.28	0.00	-14.54	0.00	14.54	1052.07	315.62	43955.0	624.04	0.63	-0.11	0.033
64.00	-9.92	-0.28	0.00	-14.26	0.00	14.26	1052.07	315.62	43955.0	624.04	0.65	-0.11	0.032
65.00	-9.80	-0.28	0.00	-13.98	0.00	13.98	1052.07	315.62	43955.0	624.04	0.67	-0.11	0.032
66.00	-9.67	-0.28	0.00	-13.71	0.00	13.71	1052.07	315.62	43955.0	624.04	0.69	-0.11	0.031
67.00	-9.55	-0.28	0.00	-13.43	0.00	13.43	1052.07	315.62	43955.0	624.04	0.72	-0.11	0.031
68.00	-9.43	-0.28	0.00	-13.15	0.00	13.15	1052.07	315.62	43955.0	624.04	0.74	-0.12	0.030
69.00	-9.30	-0.27	0.00	-12.88	0.00	12.88	1052.07	315.62	43955.0	624.04	0.77	-0.12	0.029
70.00	-9.18	-0.27	0.00	-12.60	0.00	12.60	1052.07	315.62	43955.0	624.04	0.79	-0.12	0.029
71.00	-9.06	-0.27	0.00	-12.33	0.00	12.33	1052.07	315.62	43955.0	624.04	0.81	-0.12	0.028
72.00	-8.94	-0.27	0.00	-12.06	0.00	12.06	1052.07	315.62	43955.0	624.04	0.84	-0.12	0.028
73.00	-8.81	-0.27	0.00	-11.78	0.00	11.78	1052.07	315.62	43955.0	624.04	0.87	-0.12	0.027
74.00	-8.69	-0.27	0.00	-11.52	0.00	11.52	1052.07	315.62	43955.0	624.04	0.89	-0.13	0.027
75.00	-8.56	-0.27	0.00	-11.25	0.00	11.25	1052.07	315.62	43955.0	624.04	0.92	-0.13	0.026
76.00	-8.44	-0.27	0.00	-10.98	0.00	10.98	1052.07	315.62	43955.0	624.04	0.95	-0.13	0.026
77.00	-8.31	-0.26	0.00	-10.71	0.00	10.71	1052.07	315.62	43955.0	624.04	0.97	-0.13	0.025
78.00	-8.19	-0.26	0.00	-10.45	0.00	10.45	1052.07	315.62	43955.0	624.04	1.00	-0.13	0.025
79.00	-8.07	-0.26	0.00	-10.19	0.00	10.19	1052.07	315.62	43955.0	624.04	1.03	-0.13	0.024
80.00	-7.94	-0.26	0.00	-9.93	0.00	9.93	1052.07	315.62	43955.0	624.04	1.06	-0.14	0.023
80.00	-7.94	-0.26	0.00	-9.93	0.00	9.93	1052.07	315.62	43955.0	624.04	1.06	-0.14	0.023
81.00	-7.82	-0.26	0.00	-9.67	0.00	9.67	1052.07	315.62	43955.0	624.04	1.09	-0.14	0.023
82.00	-7.70	-0.26	0.00	-9.41	0.00	9.41	1052.07	315.62	43955.0	624.04	1.11	-0.14	0.022
83.00	-7.58	-0.25	0.00	-9.16	0.00	9.16	1052.07	315.62	43955.0	624.04	1.14	-0.14	0.022
84.00	-7.45	-0.25	0.00	-8.90	0.00	8.90	1052.07	315.62	43955.0	624.04	1.17	-0.14	0.021
85.00	-7.33	-0.25	0.00	-8.65	0.00	8.65	1052.07	315.62	43955.0	624.04	1.20	-0.14	0.021
86.00	-7.21	-0.25	0.00	-8.40	0.00	8.40	1052.07	315.62	43955.0	624.04	1.23	-0.14	0.020
87.00	-7.09	-0.25	0.00	-8.15	0.00	8.15	1052.07	315.62	43955.0	624.04	1.26	-0.14	0.020
88.00	-6.96	-0.24	0.00	-7.91	0.00	7.91	1052.07	315.62	43955.0	624.04	1.29	-0.15	0.019
89.00	-6.84	-0.24	0.00	-7.66	0.00	7.66	1052.07	315.62	43955.0	624.04	1.32	-0.15	0.019
90.00	-6.72	-0.24	0.00	-7.42	0.00	7.42	1052.07	315.62	43955.0	624.04	1.35	-0.15	0.018
91.00	-6.59	-0.24	0.00	-7.18	0.00	7.18	1052.07	315.62	43955.0	624.04	1.39	-0.15	0.018
92.00	-6.47	-0.24	0.00	-6.95	0.00	6.95	1052.07	315.62	43955.0	624.04	1.42	-0.15	0.017
93.00	-6.35	-0.23	0.00	-6.71	0.00	6.71	1052.07	315.62	43955.0	624.04	1.45	-0.15	0.017
94.00	-6.23	-0.23	0.00	-6.48	0.00	6.48	1052.07	315.62	43955.0	624.04	1.48	-0.15	0.016
95.00	-6.10	-0.23	0.00	-6.25	0.00	6.25	1052.07	315.62	43955.0	624.04	1.51	-0.15	0.016
96.00	-5.98	-0.23	0.00	-6.02	0.00	6.02	1052.07	315.62	43955.0	624.04	1.54	-0.15	0.015
97.00	-5.86	-0.22	0.00	-5.79	0.00	5.79	1052.07	315.62	43955.0	624.04	1.58	-0.15	0.015
98.00	-5.74	-0.22	0.00	-5.57	0.00	5.57	1052.07	315.62	43955.0	624.04	1.61	-0.16	0.014
99.00	-5.61	-0.22	0.00	-5.35	0.00	5.35	1052.07	315.62	43955.0	624.04	1.64	-0.16	0.014
100.00	-5.49	-0.21	0.00	-5.13	0.00	5.13	1052.07	315.62	43955.0	624.04	1.68	-0.16	0.013

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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101.00	-5.37	-0.21	0.00	-4.92	0.00	4.92	1052.07	315.62	43955.0	624.04	1.71	-0.16	0.013
102.00	-5.25	-0.21	0.00	-4.71	0.00	4.71	1052.07	315.62	43955.0	624.04	1.74	-0.16	0.013
103.00	-5.12	-0.21	0.00	-4.50	0.00	4.50	1052.07	315.62	43955.0	624.04	1.77	-0.16	0.012
104.00	-5.00	-0.20	0.00	-4.29	0.00	4.29	1052.07	315.62	43955.0	624.04	1.81	-0.16	0.012
105.00	-4.88	-0.20	0.00	-4.09	0.00	4.09	1052.07	315.62	43955.0	624.04	1.84	-0.16	0.011
106.00	-4.75	-0.20	0.00	-3.89	0.00	3.89	1052.07	315.62	43955.0	624.04	1.88	-0.16	0.011
107.00	-4.63	-0.19	0.00	-3.69	0.00	3.69	1052.07	315.62	43955.0	624.04	1.91	-0.16	0.010
108.00	-4.50	-0.19	0.00	-3.49	0.00	3.49	1052.07	315.62	43955.0	624.04	1.94	-0.16	0.010
108.00	-4.50	-0.19	0.00	-3.49	0.00	3.49	1052.07	315.62	43955.0	624.04	1.94	-0.16	0.010
109.00	-4.37	-0.19	0.00	-3.30	0.00	3.30	1052.07	315.62	43955.0	624.04	1.98	-0.16	0.009
110.00	-4.16	-0.18	0.00	-3.12	0.00	3.12	1052.07	315.62	43955.0	624.04	2.01	-0.16	0.006
110.00	-4.16	-0.18	0.00	-3.12	0.00	3.12	682.83	204.85	11780.8	105.20	2.01	-0.16	0.004
111.00	-4.06	-0.18	0.00	-2.94	0.00	2.94	682.83	204.85	11780.8	105.20	2.05	-0.16	0.011
111.50	-4.01	-0.18	0.00	-2.85	0.00	2.85	682.83	204.85	11780.8	105.20	2.06	-0.17	0.011
111.50	-4.01	-0.18	0.00	-2.85	0.00	2.85	682.83	204.85	11780.8	105.20	2.06	-0.17	0.023
112.00	-3.96	-0.18	0.00	-2.76	0.00	2.76	682.83	204.85	11780.8	105.20	2.08	-0.17	0.032
113.00	-3.86	-0.18	0.00	-2.58	0.00	2.58	682.83	204.85	11780.8	105.20	2.12	-0.18	0.030
114.00	-3.76	-0.17	0.00	-2.41	0.00	2.41	682.83	204.85	11780.8	105.20	2.15	-0.19	0.028
115.00	-3.30	-0.13	0.00	-2.24	0.00	2.24	682.83	204.85	11780.8	105.20	2.19	-0.19	0.026
116.00	-3.20	-0.12	0.00	-2.11	0.00	2.11	682.83	204.85	11780.8	105.20	2.24	-0.20	0.025
117.00	-3.11	-0.12	0.00	-1.98	0.00	1.98	682.83	204.85	11780.8	105.20	2.28	-0.21	0.023
118.00	-3.02	-0.12	0.00	-1.86	0.00	1.86	682.83	204.85	11780.8	105.20	2.32	-0.22	0.022
119.00	-2.92	-0.12	0.00	-1.74	0.00	1.74	682.83	204.85	11780.8	105.20	2.37	-0.23	0.021
120.00	-2.71	-0.11	0.00	-1.62	0.00	1.62	682.83	204.85	11780.8	105.20	2.42	-0.23	0.019
121.00	-2.61	-0.11	0.00	-1.51	0.00	1.51	682.83	204.85	11780.8	105.20	2.47	-0.24	0.018
122.00	-2.52	-0.11	0.00	-1.40	0.00	1.40	682.83	204.85	11780.8	105.20	2.52	-0.24	0.017
123.00	-2.42	-0.10	0.00	-1.30	0.00	1.30	682.83	204.85	11780.8	105.20	2.57	-0.25	0.016
124.00	-2.33	-0.10	0.00	-1.20	0.00	1.20	682.83	204.85	11780.8	105.20	2.62	-0.25	0.015
125.00	-2.23	-0.10	0.00	-1.09	0.00	1.09	682.83	204.85	11780.8	105.20	2.68	-0.26	0.014
126.00	-2.14	-0.10	0.00	-1.00	0.00	1.00	682.83	204.85	11780.8	105.20	2.73	-0.26	0.013
127.00	-1.89	-0.08	0.00	-0.90	0.00	0.90	682.83	204.85	11780.8	105.20	2.78	-0.26	0.011
128.00	-1.80	-0.08	0.00	-0.82	0.00	0.82	682.83	204.85	11780.8	105.20	2.84	-0.27	0.010
129.00	-1.72	-0.08	0.00	-0.74	0.00	0.74	682.83	204.85	11780.8	105.20	2.90	-0.27	0.010
130.00	-1.51	-0.06	0.00	-0.66	0.00	0.66	682.83	204.85	11780.8	105.20	2.95	-0.27	0.009
130.00	-1.51	-0.06	0.00	-0.66	0.00	0.66	317.71	95.31	3734.62	52.28	2.95	-0.27	0.017
131.00	-1.46	-0.06	0.00	-0.60	0.00	0.60	317.71	95.31	3734.62	52.28	3.01	-0.28	0.016
132.00	-1.40	-0.06	0.00	-0.54	0.00	0.54	317.71	95.31	3734.62	52.28	3.07	-0.28	0.015
133.00	-1.35	-0.06	0.00	-0.48	0.00	0.48	317.71	95.31	3734.62	52.28	3.13	-0.28	0.013
134.00	-1.29	-0.06	0.00	-0.41	0.00	0.41	317.71	95.31	3734.62	52.28	3.19	-0.29	0.012
135.00	-1.04	-0.04	0.00	-0.35	0.00	0.35	317.71	95.31	3734.62	52.28	3.25	-0.29	0.010
136.00	-1.00	-0.04	0.00	-0.31	0.00	0.31	317.71	95.31	3734.62	52.28	3.31	-0.29	0.009
137.00	-0.95	-0.04	0.00	-0.27	0.00	0.27	317.71	95.31	3734.62	52.28	3.37	-0.29	0.008
138.00	-0.90	-0.04	0.00	-0.23	0.00	0.23	317.71	95.31	3734.62	52.28	3.43	-0.30	0.007
139.00	-0.85	-0.04	0.00	-0.19	0.00	0.19	317.71	95.31	3734.62	52.28	3.50	-0.30	0.006
140.00	-0.66	-0.03	0.00	-0.15	0.00	0.15	317.71	95.31	3734.62	52.28	3.56	-0.30	0.005
141.00	-0.61	-0.03	0.00	-0.12	0.00	0.12	317.71	95.31	3734.62	52.28	3.62	-0.30	0.004
142.00	-0.57	-0.03	0.00	-0.10	0.00	0.10	317.71	95.31	3734.62	52.28	3.68	-0.30	0.004
143.00	-0.52	-0.02	0.00	-0.07	0.00	0.07	317.71	95.31	3734.62	52.28	3.75	-0.30	0.003
144.00	-0.47	-0.02	0.00	-0.05	0.00	0.05	317.71	95.31	3734.62	52.28	3.81	-0.30	0.002
145.00	-0.24	-0.01	0.00	-0.02	0.00	0.02	317.71	95.31	3734.62	52.28	3.87	-0.30	0.001
146.00	-0.21	-0.01	0.00	-0.02	0.00	0.02	317.71	95.31	3734.62	52.28	3.94	-0.30	0.001
147.00	-0.17	0.00	0.00	-0.01	0.00	0.01	317.71	95.31	3734.62	52.28	4.00	-0.30	0.001
148.00	-0.14	0.00	0.00	-0.01	0.00	0.01	317.71	95.31	3734.62	52.28	4.06	-0.30	0.001
149.00	-0.10	0.00	0.00	0.00	0.00	0.00	317.71	95.31	3734.62	52.28	4.13	-0.30	0.000
150.00	0.00	0.00	0.00	0.00	0.00	0.00	317.71	95.31	3734.62	52.28	4.19	-0.30	0.000

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 40

Dead Load Factor 1.00
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	0.85	6.520	7.17	164.22	0.600	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
2.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
3.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
4.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
5.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
6.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
7.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
8.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
9.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
10.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
11.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
12.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
13.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
14.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
15.00		1.00	0.85	6.520	7.17	164.22	0.600	0.000	1.00	3.000	1.80	12.9	0.0	142.8
16.00		1.00	0.86	6.600	7.26	165.23	0.600	0.000	1.00	3.000	1.80	13.1	0.0	142.8
17.00		1.00	0.87	6.685	7.35	166.28	0.600	0.000	1.00	3.000	1.80	13.2	0.0	142.8
18.00		1.00	0.88	6.766	7.44	167.29	0.600	0.000	1.00	3.000	1.80	13.4	0.0	142.8
19.00		1.00	0.89	6.844	7.53	168.24	0.600	0.000	1.00	3.000	1.80	13.6	0.0	142.8
20.00	Top - Section 1	1.00	0.90	6.918	7.61	169.15	0.600	0.000	1.00	3.000	1.80	13.7	0.0	142.8
21.00		1.00	0.91	6.989	7.69	141.69	0.600	0.000	1.00	2.500	1.50	11.5	0.0	118.8
22.00		1.00	0.92	7.058	7.76	142.38	0.600	0.000	1.00	2.500	1.50	11.6	0.0	118.8
23.00		1.00	0.93	7.125	7.84	143.05	0.600	0.000	1.00	2.500	1.50	11.8	0.0	118.8
24.00		1.00	0.94	7.189	7.91	143.69	0.600	0.000	1.00	2.500	1.50	11.9	0.0	118.8
25.00		1.00	0.95	7.251	7.98	144.31	0.600	0.000	1.00	2.500	1.50	12.0	0.0	118.8
26.00		1.00	0.95	7.311	8.04	144.91	0.600	0.000	1.00	2.500	1.50	12.1	0.0	118.8
27.00		1.00	0.96	7.369	8.11	145.48	0.600	0.000	1.00	2.500	1.50	12.2	0.0	118.8
28.00		1.00	0.97	7.426	8.17	146.04	0.600	0.000	1.00	2.500	1.50	12.3	0.0	118.8
29.00		1.00	0.98	7.481	8.23	146.58	0.600	0.000	1.00	2.500	1.50	12.3	0.0	118.8
30.00		1.00	0.98	7.534	8.29	147.11	0.600	0.000	1.00	2.500	1.50	12.4	0.0	118.8
31.00		1.00	0.99	7.587	8.35	147.62	0.600	0.000	1.00	2.500	1.50	12.5	0.0	118.8
32.00		1.00	1.00	7.637	8.40	148.11	0.600	0.000	1.00	2.500	1.50	12.6	0.0	118.8
33.00		1.00	1.00	7.687	8.46	148.59	0.600	0.000	1.00	2.500	1.50	12.7	0.0	118.8
34.00		1.00	1.01	7.736	8.51	149.06	0.600	0.000	1.00	2.500	1.50	12.8	0.0	118.8
35.00		1.00	1.01	7.783	8.56	149.51	0.600	0.000	1.00	2.500	1.50	12.8	0.0	118.8
36.00		1.00	1.02	7.829	8.61	149.96	0.600	0.000	1.00	2.500	1.50	12.9	0.0	118.8
37.00		1.00	1.03	7.875	8.66	150.39	0.600	0.000	1.00	2.500	1.50	13.0	0.0	118.8
38.00		1.00	1.03	7.919	8.71	150.81	0.600	0.000	1.00	2.500	1.50	13.1	0.0	118.8
39.00		1.00	1.04	7.962	8.76	151.23	0.600	0.000	1.00	2.500	1.50	13.1	0.0	118.8
40.00		1.00	1.04	8.005	8.81	151.63	0.600	0.000	1.00	2.500	1.50	13.2	0.0	118.8
41.00		1.00	1.05	8.047	8.85	152.02	0.600	0.000	1.00	2.500	1.50	13.3	0.0	118.8
42.00		1.00	1.05	8.087	8.90	152.41	0.600	0.000	1.00	2.500	1.50	13.3	0.0	118.8
43.00		1.00	1.06	8.128	8.94	152.79	0.600	0.000	1.00	2.500	1.50	13.4	0.0	118.8
44.00		1.00	1.06	8.167	8.98	153.16	0.600	0.000	1.00	2.500	1.50	13.5	0.0	118.8
45.00		1.00	1.07	8.206	9.03	153.52	0.600	0.000	1.00	2.500	1.50	13.5	0.0	118.8
46.00		1.00	1.07	8.244	9.07	153.88	0.600	0.000	1.00	2.500	1.50	13.6	0.0	118.8

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



47.00	1.00	1.08	8.281	9.11	154.23	0.600	0.000	1.00	2.500	1.50	13.7	0.0	118.8
48.00	1.00	1.08	8.318	9.15	154.57	0.600	0.000	1.00	2.500	1.50	13.7	0.0	118.8
49.00	1.00	1.09	8.354	9.19	154.90	0.600	0.000	1.00	2.500	1.50	13.8	0.0	118.8
50.00 Top - Section 2	1.00	1.09	8.390	9.23	155.23	0.600	0.000	1.00	2.500	1.50	13.8	0.0	118.8
51.00	1.00	1.10	8.425	9.27	124.45	0.600	0.000	1.00	2.000	1.20	11.1	0.0	94.7
52.00	1.00	1.10	8.459	9.31	124.70	0.600	0.000	1.00	2.000	1.20	11.2	0.0	94.7
53.00	1.00	1.11	8.493	9.34	124.95	0.600	0.000	1.00	2.000	1.20	11.2	0.0	94.7
54.00	1.00	1.11	8.527	9.38	125.20	0.600	0.000	1.00	2.000	1.20	11.3	0.0	94.7
55.00	1.00	1.12	8.560	9.42	125.44	0.600	0.000	1.00	2.000	1.20	11.3	0.0	94.7
56.00	1.00	1.12	8.592	9.45	125.68	0.600	0.000	1.00	2.000	1.20	11.3	0.0	94.7
57.00	1.00	1.12	8.624	9.49	125.91	0.600	0.000	1.00	2.000	1.20	11.4	0.0	94.7
58.00	1.00	1.13	8.656	9.52	126.14	0.600	0.000	1.00	2.000	1.20	11.4	0.0	94.7
59.00	1.00	1.13	8.687	9.56	126.37	0.600	0.000	1.00	2.000	1.20	11.5	0.0	94.7
60.00	1.00	1.14	8.718	9.59	126.59	0.600	0.000	1.00	2.000	1.20	11.5	0.0	94.7
61.00	1.00	1.14	8.749	9.62	126.81	0.600	0.000	1.00	2.000	1.20	11.5	0.0	94.7
62.00	1.00	1.14	8.779	9.66	127.03	0.600	0.000	1.00	2.000	1.20	11.6	0.0	94.7
63.00	1.00	1.15	8.808	9.69	127.25	0.600	0.000	1.00	2.000	1.20	11.6	0.0	94.7
64.00	1.00	1.15	8.837	9.72	127.46	0.600	0.000	1.00	2.000	1.20	11.7	0.0	94.7
65.00	1.00	1.16	8.866	9.75	127.66	0.600	0.000	1.00	2.000	1.20	11.7	0.0	94.7
66.00	1.00	1.16	8.895	9.78	127.87	0.600	0.000	1.00	2.000	1.20	11.7	0.0	94.7
67.00	1.00	1.16	8.923	9.82	128.07	0.600	0.000	1.00	2.000	1.20	11.8	0.0	94.7
68.00	1.00	1.17	8.951	9.85	128.27	0.600	0.000	1.00	2.000	1.20	11.8	0.0	94.7
69.00	1.00	1.17	8.978	9.88	128.47	0.600	0.000	1.00	2.000	1.20	11.9	0.0	94.7
70.00	1.00	1.17	9.006	9.91	128.66	0.600	0.000	1.00	2.000	1.20	11.9	0.0	94.7
71.00	1.00	1.18	9.033	9.94	128.86	0.600	0.000	1.00	2.000	1.20	11.9	0.0	94.7
72.00	1.00	1.18	9.059	9.97	129.05	0.600	0.000	1.00	2.000	1.20	12.0	0.0	94.7
73.00	1.00	1.18	9.086	9.99	129.23	0.600	0.000	1.00	2.000	1.20	12.0	0.0	94.7
74.00	1.00	1.19	9.112	10.02	129.42	0.600	0.000	1.00	2.000	1.20	12.0	0.0	94.7
75.00 Appurtenance(s)	1.00	1.19	9.137	10.05	129.60	0.600	0.000	1.00	2.000	1.20	12.1	0.0	94.7
76.00	1.00	1.19	9.163	10.08	129.78	0.600	0.000	1.00	2.000	1.20	12.1	0.0	94.7
77.00	1.00	1.20	9.188	10.11	129.96	0.600	0.000	1.00	2.000	1.20	12.1	0.0	94.7
78.00	1.00	1.20	9.213	10.13	130.14	0.600	0.000	1.00	2.000	1.20	12.2	0.0	94.7
79.00	1.00	1.20	9.238	10.16	130.31	0.600	0.000	1.00	2.000	1.20	12.2	0.0	94.7
80.00 Top - Section 3	1.00	1.21	9.262	10.19	130.49	0.600	0.000	1.00	2.000	1.20	12.2	0.0	94.7
81.00	1.00	1.21	9.287	10.22	130.66	0.600	0.000	1.00	2.000	1.20	12.3	0.0	94.7
82.00	1.00	1.21	9.311	10.24	130.83	0.600	0.000	1.00	2.000	1.20	12.3	0.0	94.7
83.00	1.00	1.22	9.335	10.27	130.99	0.600	0.000	1.00	2.000	1.20	12.3	0.0	94.7
84.00	1.00	1.22	9.358	10.29	131.16	0.600	0.000	1.00	2.000	1.20	12.4	0.0	94.7
85.00	1.00	1.22	9.381	10.32	131.32	0.600	0.000	1.00	2.000	1.20	12.4	0.0	94.7
86.00	1.00	1.23	9.405	10.35	131.48	0.600	0.000	1.00	2.000	1.20	12.4	0.0	94.7
87.00	1.00	1.23	9.427	10.37	131.64	0.600	0.000	1.00	2.000	1.20	12.4	0.0	94.7
88.00	1.00	1.23	9.450	10.40	131.80	0.600	0.000	1.00	2.000	1.20	12.5	0.0	94.7
89.00	1.00	1.23	9.473	10.42	131.96	0.600	0.000	1.00	2.000	1.20	12.5	0.0	94.7
90.00	1.00	1.24	9.495	10.44	132.11	0.600	0.000	1.00	2.000	1.20	12.5	0.0	94.7
91.00	1.00	1.24	9.517	10.47	132.27	0.600	0.000	1.00	2.000	1.20	12.6	0.0	94.7
92.00	1.00	1.24	9.539	10.49	132.42	0.600	0.000	1.00	2.000	1.20	12.6	0.0	94.7
93.00	1.00	1.25	9.561	10.52	132.57	0.600	0.000	1.00	2.000	1.20	12.6	0.0	94.7
94.00	1.00	1.25	9.582	10.54	132.72	0.600	0.000	1.00	2.000	1.20	12.6	0.0	94.7
95.00	1.00	1.25	9.604	10.56	132.87	0.600	0.000	1.00	2.000	1.20	12.7	0.0	94.7
96.00	1.00	1.25	9.625	10.59	133.01	0.600	0.000	1.00	2.000	1.20	12.7	0.0	94.7
97.00	1.00	1.26	9.646	10.61	133.16	0.600	0.000	1.00	2.000	1.20	12.7	0.0	94.7
98.00	1.00	1.26	9.667	10.63	133.30	0.600	0.000	1.00	2.000	1.20	12.8	0.0	94.7
99.00	1.00	1.26	9.687	10.66	133.45	0.600	0.000	1.00	2.000	1.20	12.8	0.0	94.7
100.00	1.00	1.27	9.708	10.68	133.59	0.600	0.000	1.00	2.000	1.20	12.8	0.0	94.7
101.00	1.00	1.27	9.728	10.70	133.73	0.600	0.000	1.00	2.000	1.20	12.8	0.0	94.7
102.00	1.00	1.27	9.749	10.72	133.87	0.600	0.000	1.00	2.000	1.20	12.9	0.0	94.7
103.00	1.00	1.27	9.769	10.75	134.00	0.600	0.000	1.00	2.000	1.20	12.9	0.0	94.7

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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104.00	1.00	1.28	9.788	10.77	134.14	0.600	0.000	1.00	2.000	1.20	12.9	0.0	94.7
105.00	1.00	1.28	9.808	10.79	134.27	0.600	0.000	1.00	2.000	1.20	12.9	0.0	94.7
106.00	1.00	1.28	9.828	10.81	134.41	0.600	0.000	1.00	2.000	1.20	13.0	0.0	94.7
107.00	1.00	1.28	9.847	10.83	134.54	0.600	0.000	1.00	2.000	1.20	13.0	0.0	94.7
108.00 Top - Section 4	1.00	1.29	9.867	10.85	134.67	0.600	0.000	1.00	2.000	1.20	13.0	0.0	94.7
109.00	1.00	1.29	9.886	10.87	202.21	0.600	0.000	1.00	3.000	1.80	19.6	0.0	104.3
110.00 Top - Section 5 RB1	1.00	1.29	9.905	10.90	202.40	0.600	0.000	1.00	3.000	1.80	19.6	0.0	104.3
111.00	1.00	1.29	9.924	10.92	202.59	0.600	0.000	1.00	3.000	1.80	19.6	0.0	71.1
111.50 RT1	1.00	1.29	9.933	10.93	202.69	0.600	0.000	0.50	1.500	0.90	9.8	0.0	35.5
112.00	1.00	1.30	9.942	10.94	202.79	0.600	0.000	0.50	1.500	0.90	9.8	0.0	35.5
113.00	1.00	1.30	9.961	10.96	202.98	0.600	0.000	1.00	3.000	1.80	19.7	0.0	71.1
114.00	1.00	1.30	9.979	10.98	203.16	0.600	0.000	1.00	3.000	1.80	19.8	0.0	71.1
115.00 Appurtenance(s)	1.00	1.30	9.998	11.00	203.35	0.600	0.000	1.00	3.000	1.80	19.8	0.0	71.1
116.00	1.00	1.31	10.016	11.02	203.54	0.600	0.000	1.00	3.000	1.80	19.8	0.0	71.1
117.00	1.00	1.31	10.034	11.04	203.72	0.600	0.000	1.00	3.000	1.80	19.9	0.0	71.1
118.00	1.00	1.31	10.052	11.06	203.90	0.600	0.000	1.00	3.000	1.80	19.9	0.0	71.1
119.00	1.00	1.31	10.070	11.08	204.08	0.600	0.000	1.00	3.000	1.80	19.9	0.0	71.1
120.00 Appurtenance(s)	1.00	1.32	10.088	11.10	204.26	0.600	0.000	1.00	3.000	1.80	20.0	0.0	71.1
121.00	1.00	1.32	10.105	11.12	204.44	0.600	0.000	1.00	3.000	1.80	20.0	0.0	71.1
122.00	1.00	1.32	10.123	11.14	204.62	0.600	0.000	1.00	3.000	1.80	20.0	0.0	71.1
123.00	1.00	1.32	10.140	11.15	204.80	0.600	0.000	1.00	3.000	1.80	20.1	0.0	71.1
124.00	1.00	1.32	10.158	11.17	204.97	0.600	0.000	1.00	3.000	1.80	20.1	0.0	71.1
125.00	1.00	1.33	10.175	11.19	205.14	0.600	0.000	1.00	3.000	1.80	20.1	0.0	71.1
126.00	1.00	1.33	10.192	11.21	205.32	0.600	0.000	1.00	3.000	1.80	20.2	0.0	71.1
127.00 Appurtenance(s)	1.00	1.33	10.209	11.23	205.49	0.600	0.000	1.00	3.000	1.80	20.2	0.0	71.1
128.00	1.00	1.33	10.226	11.25	205.66	0.600	0.000	1.00	3.000	1.80	20.2	0.0	71.1
129.00	1.00	1.34	10.243	11.27	205.82	0.600	0.000	1.00	3.000	1.80	20.3	0.0	71.1
130.00 Top - Section 6	1.00	1.34	10.259	11.29	205.99	0.600	0.000	1.00	3.000	1.80	20.3	0.0	71.1
131.00	1.00	1.34	10.276	11.30	206.16	0.600	0.000	1.00	3.000	1.80	20.3	0.0	38.2
132.00	1.00	1.34	10.292	11.32	206.32	0.600	0.000	1.00	3.000	1.80	20.4	0.0	38.2
133.00	1.00	1.34	10.309	11.34	206.49	0.600	0.000	1.00	3.000	1.80	20.4	0.0	38.2
134.00	1.00	1.35	10.325	11.36	206.65	0.600	0.000	1.00	3.000	1.80	20.4	0.0	38.2
135.00 Appurtenance(s)	1.00	1.35	10.341	11.38	206.81	0.600	0.000	1.00	3.000	1.80	20.5	0.0	38.2
136.00	1.00	1.35	10.357	11.39	206.97	0.600	0.000	1.00	3.000	1.80	20.5	0.0	38.2
137.00	1.00	1.35	10.373	11.41	207.13	0.600	0.000	1.00	3.000	1.80	20.5	0.0	38.2
138.00	1.00	1.35	10.389	11.43	207.29	0.600	0.000	1.00	3.000	1.80	20.6	0.0	38.2
139.00	1.00	1.36	10.405	11.45	207.45	0.600	0.000	1.00	3.000	1.80	20.6	0.0	38.2
140.00 Appurtenance(s)	1.00	1.36	10.421	11.46	207.60	0.600	0.000	1.00	3.000	1.80	20.6	0.0	38.2
141.00	1.00	1.36	10.436	11.48	207.76	0.600	0.000	1.00	3.000	1.80	20.7	0.0	38.2
142.00	1.00	1.36	10.452	11.50	207.92	0.600	0.000	1.00	3.000	1.80	20.7	0.0	38.2
143.00	1.00	1.36	10.467	11.51	208.07	0.600	0.000	1.00	3.000	1.80	20.7	0.0	38.2
144.00	1.00	1.37	10.483	11.53	208.22	0.600	0.000	1.00	3.000	1.80	20.8	0.0	38.2
145.00 Appurtenance(s)	1.00	1.37	10.498	11.55	208.37	0.600	0.000	1.00	3.000	1.80	20.8	0.0	38.2
146.00	1.00	1.37	10.513	11.56	208.52	0.600	0.000	1.00	3.000	1.80	20.8	0.0	38.2
147.00	1.00	1.37	10.528	11.58	208.67	0.600	0.000	1.00	3.000	1.80	20.8	0.0	38.2
148.00	1.00	1.37	10.543	11.60	208.82	0.600	0.000	1.00	3.000	1.80	20.9	0.0	38.2
149.00	1.00	1.38	10.558	11.61	208.97	0.600	0.000	1.00	3.000	1.80	20.9	0.0	38.2
150.00 Appurtenance(s)	1.00	1.38	10.573	11.63	209.12	0.600	0.000	1.00	3.000	1.80	20.9	0.0	38.2
Totals:								150.00			2,202.3		14,306.1

Discrete Appurtenance Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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 40
Dead Load Factor 1.00	
Wind Load Factor 1.00	

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor 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	150.00	36" Canister Weight	1	10.573	11.630	1.00	1.00	0.00	64.57	0.000	0.000	0.00	0.00	0.00
2	150.00	Truck Ball	1	10.580	11.638	1.00	1.00	1.41	5.00	0.000	0.500	16.41	0.00	8.21
3	145.00	CDX623T-DS	6	10.498	11.548	0.00	1.00	0.00	60.60	0.000	0.000	0.00	0.00	0.00
4	145.00	FFVV-65B-R3	3	10.498	11.548	0.00	1.00	0.00	131.40	0.000	0.000	0.00	0.00	0.00
5	140.00	36" Canister Weight	1	10.421	11.463	1.00	1.00	0.00	129.14	0.000	0.000	0.00	0.00	0.00
6	140.00	Flag	1	10.421	11.463	1.00	1.00	6.89	25.00	0.000	0.000	78.98	0.00	0.00
7	135.00	Flush Mount	1	10.341	11.375	0.00	1.00	0.00	25.00	0.000	0.000	0.00	0.00	0.00
8	135.00	DB-T1-6Z-8AB-0Z	2	10.341	11.375	0.00	1.00	0.00	37.80	0.000	0.000	0.00	0.00	0.00
9	135.00	FDL85002/1C-3L	6	10.341	11.375	0.00	1.00	0.00	42.00	0.000	0.000	0.00	0.00	0.00
10	135.00	SBNHH-1D65A	3	10.341	11.375	0.00	1.00	0.00	100.50	0.000	0.000	0.00	0.00	0.00
11	130.00	36" Canister Weight	1	10.259	11.285	1.00	1.00	0.00	129.14	0.000	0.000	0.00	0.00	0.00
12	127.00	Flush Mount	1	10.209	11.230	0.00	1.00	0.00	25.00	0.000	0.000	0.00	0.00	0.00
13	127.00	ATSBT-TOP-FM	3	10.209	11.230	0.00	1.00	0.00	5.40	0.000	0.000	0.00	0.00	0.00
14	127.00	CBC426T-DS-43	6	10.209	11.230	0.00	1.00	0.00	43.80	0.000	0.000	0.00	0.00	0.00
15	127.00	D2WC-21 (2LB+4MB)	3	10.209	11.230	0.00	1.00	0.00	92.70	0.000	0.000	0.00	0.00	0.00
16	120.00	36" Canister Weight	1	10.088	11.097	1.00	1.00	0.00	129.14	0.000	0.000	0.00	0.00	0.00
17	115.00	Flush Mount	1	9.998	10.998	0.00	1.00	0.00	25.00	0.000	0.000	0.00	0.00	0.00
18	115.00	Kaleus	6	9.998	10.998	0.00	1.00	0.00	136.80	0.000	0.000	0.00	0.00	0.00
19	115.00	800372965	3	9.998	10.998	0.00	1.00	0.00	223.50	0.000	0.000	0.00	0.00	0.00
20	110.00	36" Canister Weight	1	9.905	10.895	1.00	1.00	0.00	77.48	0.000	0.000	0.00	0.00	0.00
21	108.00	36" Canister Weight	1	9.867	10.853	1.00	1.00	0.00	12.91	0.000	0.000	0.00	0.00	0.00
22	75.00	GPS	1	9.137	10.051	0.80	0.80	0.80	10.00	0.000	0.000	8.04	0.00	0.00
Totals:									1,531.88			103.43		

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

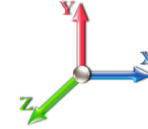


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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00

Wind Load Factor 1.00



Iterations 40

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
1.00		12.91	178.59	0.00	0.00
2.00		12.91	178.59	0.00	0.00
3.00		12.91	178.59	0.00	0.00
4.00		12.91	178.59	0.00	0.00
5.00		12.91	178.59	0.00	0.00
6.00		12.91	178.59	0.00	0.00
7.00		12.91	178.59	0.00	0.00
8.00		12.91	178.59	0.00	0.00
9.00		12.91	178.59	0.00	0.00
10.00		12.91	178.59	0.00	0.00
11.00		12.91	178.59	0.00	0.00
12.00		12.91	178.59	0.00	0.00
13.00		12.91	178.59	0.00	0.00
14.00		12.91	178.59	0.00	0.00
15.00		12.91	178.59	0.00	0.00
16.00		13.07	178.59	0.00	0.00
17.00		13.24	178.59	0.00	0.00
18.00		13.40	178.59	0.00	0.00
19.00		13.55	178.59	0.00	0.00
20.00		13.70	178.59	0.00	0.00
21.00		11.53	154.54	0.00	0.00
22.00		11.65	154.54	0.00	0.00
23.00		11.76	154.54	0.00	0.00
24.00		11.86	154.54	0.00	0.00
25.00		11.96	154.54	0.00	0.00
26.00		12.06	154.54	0.00	0.00
27.00		12.16	154.54	0.00	0.00
28.00		12.25	154.54	0.00	0.00
29.00		12.34	154.54	0.00	0.00
30.00		12.43	154.54	0.00	0.00
31.00		12.52	154.54	0.00	0.00
32.00		12.60	154.54	0.00	0.00
33.00		12.68	154.54	0.00	0.00
34.00		12.76	154.54	0.00	0.00
35.00		12.84	154.54	0.00	0.00
36.00		12.92	154.54	0.00	0.00
37.00		12.99	154.54	0.00	0.00
38.00		13.07	154.54	0.00	0.00
39.00		13.14	154.54	0.00	0.00
40.00		13.21	154.54	0.00	0.00
41.00		13.28	154.54	0.00	0.00
42.00		13.34	154.54	0.00	0.00
43.00		13.41	154.54	0.00	0.00
44.00		13.48	154.54	0.00	0.00
45.00		13.54	154.54	0.00	0.00
46.00		13.60	154.54	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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47.00	13.66	154.54	0.00	0.00
48.00	13.72	154.54	0.00	0.00
49.00	13.78	154.54	0.00	0.00
50.00	13.84	154.54	0.00	0.00
51.00	11.12	130.49	0.00	0.00
52.00	11.17	130.49	0.00	0.00
53.00	11.21	130.49	0.00	0.00
54.00	11.26	130.49	0.00	0.00
55.00	11.30	130.49	0.00	0.00
56.00	11.34	130.49	0.00	0.00
57.00	11.38	130.49	0.00	0.00
58.00	11.43	130.49	0.00	0.00
59.00	11.47	130.49	0.00	0.00
60.00	11.51	130.49	0.00	0.00
61.00	11.55	130.49	0.00	0.00
62.00	11.59	130.49	0.00	0.00
63.00	11.63	130.49	0.00	0.00
64.00	11.67	130.49	0.00	0.00
65.00	11.70	130.49	0.00	0.00
66.00	11.74	130.49	0.00	0.00
67.00	11.78	130.49	0.00	0.00
68.00	11.82	130.49	0.00	0.00
69.00	11.85	130.49	0.00	0.00
70.00	11.89	130.49	0.00	0.00
71.00	11.92	130.49	0.00	0.00
72.00	11.96	130.49	0.00	0.00
73.00	11.99	130.49	0.00	0.00
74.00	12.03	130.49	0.00	0.00
75.00	(1) attachments	20.10	140.49	0.00
76.00		12.10	130.33	0.00
77.00		12.13	130.33	0.00
78.00		12.16	130.33	0.00
79.00		12.19	130.33	0.00
80.00		12.23	130.33	0.00
81.00		12.26	130.33	0.00
82.00		12.29	130.33	0.00
83.00		12.32	130.33	0.00
84.00		12.35	130.33	0.00
85.00		12.38	130.33	0.00
86.00		12.41	130.33	0.00
87.00		12.44	130.33	0.00
88.00		12.47	130.33	0.00
89.00		12.50	130.33	0.00
90.00		12.53	130.33	0.00
91.00		12.56	130.33	0.00
92.00		12.59	130.33	0.00
93.00		12.62	130.33	0.00
94.00		12.65	130.33	0.00
95.00		12.68	130.33	0.00
96.00		12.70	130.33	0.00
97.00		12.73	130.33	0.00
98.00		12.76	130.33	0.00
99.00		12.79	130.33	0.00
100.00		12.81	130.33	0.00
101.00		12.84	130.33	0.00
102.00		12.87	130.33	0.00
103.00		12.89	130.33	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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104.00		12.92	130.33	0.00	0.00
105.00		12.95	130.33	0.00	0.00
106.00		12.97	130.33	0.00	0.00
107.00		13.00	130.33	0.00	0.00
108.00	(1) attachments	13.02	143.24	0.00	0.00
109.00		19.57	139.93	0.00	0.00
110.00	(1) attachments	19.61	217.41	0.00	0.00
111.00		19.65	106.69	0.00	0.00
111.50		9.83	53.34	0.00	0.00
112.00		9.84	53.34	0.00	0.00
113.00		19.72	106.69	0.00	0.00
114.00		19.76	106.69	0.00	0.00
115.00	(10) attachments	19.80	491.99	0.00	0.00
116.00		19.83	100.45	0.00	0.00
117.00		19.87	100.45	0.00	0.00
118.00		19.90	100.45	0.00	0.00
119.00		19.94	100.45	0.00	0.00
120.00	(1) attachments	19.97	229.59	0.00	0.00
121.00		20.01	100.45	0.00	0.00
122.00		20.04	100.45	0.00	0.00
123.00		20.08	100.45	0.00	0.00
124.00		20.11	100.45	0.00	0.00
125.00		20.15	100.45	0.00	0.00
126.00		20.18	100.45	0.00	0.00
127.00	(13) attachments	20.21	267.35	0.00	0.00
128.00		20.25	91.51	0.00	0.00
129.00		20.28	91.51	0.00	0.00
130.00	(1) attachments	20.31	220.65	0.00	0.00
131.00		20.35	58.64	0.00	0.00
132.00		20.38	58.64	0.00	0.00
133.00		20.41	58.64	0.00	0.00
134.00		20.44	58.64	0.00	0.00
135.00	(12) attachments	20.48	263.94	0.00	0.00
136.00		20.51	50.68	0.00	0.00
137.00		20.54	50.68	0.00	0.00
138.00		20.57	50.68	0.00	0.00
139.00		20.60	50.68	0.00	0.00
140.00	(2) attachments	99.61	204.82	0.00	0.00
141.00		20.66	50.68	0.00	0.00
142.00		20.69	50.68	0.00	0.00
143.00		20.73	50.68	0.00	0.00
144.00		20.76	50.68	0.00	0.00
145.00	(9) attachments	20.79	242.68	0.00	0.00
146.00		20.82	38.20	0.00	0.00
147.00		20.85	38.20	0.00	0.00
148.00		20.88	38.20	0.00	0.00
149.00		20.91	38.20	0.00	0.00
150.00	(2) attachments	37.34	107.77	0.00	8.21
	Totals:	2,305.76	20,587.20	0.00	8.21

Linear Appurtenance Segment Forces (Factored)

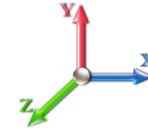
Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 40

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)
18.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	6.766	0.00	0.00
19.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	6.844	0.00	0.00
20.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.028	0.000	6.918	0.00	0.00
21.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	6.989	0.00	0.00
22.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	7.058	0.00	0.00
23.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.033	0.000	7.125	0.00	0.00
Totals:											0.0	0.0

Calculated Forces

Structure: CT04374-S-SBA
Site Name: Central Hebron
Height: 150.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

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

7/5/2023
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 40

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	-20.59	-2.31	0.00	-209.24	0.00	209.24	1490.10	475.94	99948.2	1339.68	0.00	0.000	0.000	0.170
1.00	-20.41	-2.30	0.00	-206.94	0.00	206.94	1490.10	475.94	99948.2	1339.68	0.00	-0.009	0.000	0.168
2.00	-20.23	-2.29	0.00	-204.64	0.00	204.64	1490.10	475.94	99948.2	1339.68	0.00	-0.018	0.000	0.166
3.00	-20.05	-2.28	0.00	-202.35	0.00	202.35	1490.10	475.94	99948.2	1339.68	0.01	-0.026	0.000	0.165
4.00	-19.87	-2.27	0.00	-200.08	0.00	200.08	1490.10	475.94	99948.2	1339.68	0.01	-0.035	0.000	0.163
5.00	-19.69	-2.26	0.00	-197.81	0.00	197.81	1490.10	475.94	99948.2	1339.68	0.02	-0.043	0.000	0.161
6.00	-19.51	-2.25	0.00	-195.55	0.00	195.55	1490.10	475.94	99948.2	1339.68	0.03	-0.052	0.000	0.159
7.00	-19.33	-2.24	0.00	-193.31	0.00	193.31	1490.10	475.94	99948.2	1339.68	0.04	-0.060	0.000	0.157
8.00	-19.16	-2.23	0.00	-191.07	0.00	191.07	1490.10	475.94	99948.2	1339.68	0.06	-0.068	0.000	0.156
9.00	-18.98	-2.22	0.00	-188.85	0.00	188.85	1490.10	475.94	99948.2	1339.68	0.07	-0.076	0.000	0.154
10.00	-18.80	-2.20	0.00	-186.63	0.00	186.63	1490.10	475.94	99948.2	1339.68	0.09	-0.084	0.000	0.152
11.00	-18.62	-2.19	0.00	-184.43	0.00	184.43	1490.10	475.94	99948.2	1339.68	0.11	-0.092	0.000	0.150
12.00	-18.44	-2.18	0.00	-182.23	0.00	182.23	1490.10	475.94	99948.2	1339.68	0.13	-0.100	0.000	0.148
13.00	-18.26	-2.17	0.00	-180.05	0.00	180.05	1490.10	475.94	99948.2	1339.68	0.15	-0.108	0.000	0.147
14.00	-18.08	-2.16	0.00	-177.88	0.00	177.88	1490.10	475.94	99948.2	1339.68	0.17	-0.116	0.000	0.145
15.00	-17.90	-2.15	0.00	-175.72	0.00	175.72	1490.10	475.94	99948.2	1339.68	0.20	-0.123	0.000	0.143
16.00	-17.72	-2.14	0.00	-173.56	0.00	173.56	1490.10	475.94	99948.2	1339.68	0.23	-0.131	0.000	0.141
17.00	-17.55	-2.13	0.00	-171.43	0.00	171.43	1490.10	475.94	99948.2	1339.68	0.25	-0.138	0.000	0.140
18.00	-17.37	-2.12	0.00	-169.30	0.00	169.30	1490.10	475.94	99948.2	1339.68	0.28	-0.145	0.000	0.138
19.00	-17.19	-2.10	0.00	-167.18	0.00	167.18	1490.10	475.94	99948.2	1339.68	0.32	-0.152	0.000	0.136
20.00	-17.01	-2.09	0.00	-165.08	0.00	165.08	1490.10	475.94	99948.2	1339.68	0.35	-0.160	0.000	0.135
20.00	-17.01	-2.09	0.00	-165.08	0.00	165.08	1311.06	395.78	69116.5	948.43	0.35	-0.160	0.000	0.187
21.00	-16.85	-2.08	0.00	-162.98	0.00	162.98	1311.06	395.78	69116.5	948.43	0.38	-0.167	0.000	0.185
22.00	-16.70	-2.07	0.00	-160.90	0.00	160.90	1311.06	395.78	69116.5	948.43	0.42	-0.179	0.000	0.182
23.00	-16.54	-2.07	0.00	-158.83	0.00	158.83	1311.06	395.78	69116.5	948.43	0.46	-0.190	0.000	0.180
24.00	-16.39	-2.06	0.00	-156.76	0.00	156.76	1311.06	395.78	69116.5	948.43	0.50	-0.202	0.000	0.178
25.00	-16.23	-2.05	0.00	-154.70	0.00	154.70	1311.06	395.78	69116.5	948.43	0.54	-0.214	0.000	0.176
26.00	-16.08	-2.04	0.00	-152.66	0.00	152.66	1311.06	395.78	69116.5	948.43	0.59	-0.225	0.000	0.173
27.00	-15.93	-2.03	0.00	-150.62	0.00	150.62	1311.06	395.78	69116.5	948.43	0.64	-0.236	0.000	0.171
28.00	-15.77	-2.02	0.00	-148.59	0.00	148.59	1311.06	395.78	69116.5	948.43	0.69	-0.247	0.000	0.169
29.00	-15.62	-2.01	0.00	-146.57	0.00	146.57	1311.06	395.78	69116.5	948.43	0.74	-0.258	0.000	0.166
30.00	-15.46	-2.00	0.00	-144.56	0.00	144.56	1311.06	395.78	69116.5	948.43	0.80	-0.269	0.000	0.164
31.00	-15.31	-1.99	0.00	-142.56	0.00	142.56	1311.06	395.78	69116.5	948.43	0.85	-0.280	0.000	0.162
32.00	-15.15	-1.98	0.00	-140.58	0.00	140.58	1311.06	395.78	69116.5	948.43	0.91	-0.290	0.000	0.160
33.00	-15.00	-1.97	0.00	-138.60	0.00	138.60	1311.06	395.78	69116.5	948.43	0.97	-0.301	0.000	0.158
34.00	-14.84	-1.96	0.00	-136.63	0.00	136.63	1311.06	395.78	69116.5	948.43	1.04	-0.311	0.000	0.155
35.00	-14.69	-1.94	0.00	-134.68	0.00	134.68	1311.06	395.78	69116.5	948.43	1.11	-0.321	0.000	0.153
36.00	-14.53	-1.93	0.00	-132.73	0.00	132.73	1311.06	395.78	69116.5	948.43	1.17	-0.331	0.000	0.151
37.00	-14.38	-1.92	0.00	-130.80	0.00	130.80	1311.06	395.78	69116.5	948.43	1.24	-0.341	0.000	0.149
38.00	-14.22	-1.91	0.00	-128.88	0.00	128.88	1311.06	395.78	69116.5	948.43	1.32	-0.350	0.000	0.147
39.00	-14.07	-1.90	0.00	-126.97	0.00	126.97	1311.06	395.78	69116.5	948.43	1.39	-0.360	0.000	0.145
40.00	-13.91	-1.89	0.00	-125.07	0.00	125.07	1311.06	395.78	69116.5	948.43	1.47	-0.369	0.000	0.143
41.00	-13.76	-1.87	0.00	-123.18	0.00	123.18	1311.06	395.78	69116.5	948.43	1.55	-0.378	0.000	0.140
42.00	-13.60	-1.86	0.00	-121.31	0.00	121.31	1311.06	395.78	69116.5	948.43	1.63	-0.388	0.000	0.138
43.00	-13.45	-1.85	0.00	-119.45	0.00	119.45	1311.06	395.78	69116.5	948.43	1.71	-0.397	0.000	0.136
44.00	-13.29	-1.84	0.00	-117.60	0.00	117.60	1311.06	395.78	69116.5	948.43	1.79	-0.405	0.000	0.134
45.00	-13.14	-1.82	0.00	-115.76	0.00	115.76	1311.06	395.78	69116.5	948.43	1.88	-0.414	0.000	0.132
46.00	-12.98	-1.81	0.00	-113.94	0.00	113.94	1311.06	395.78	69116.5	948.43	1.97	-0.422	0.000	0.130

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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47.00	-12.83	-1.80	0.00	-112.13	0.00	112.13	1311.06	395.78	69116.5	948.43	2.05	-0.431	0.000	0.128
48.00	-12.67	-1.79	0.00	-110.33	0.00	110.33	1311.06	395.78	69116.5	948.43	2.15	-0.439	0.000	0.126
49.00	-12.52	-1.77	0.00	-108.54	0.00	108.54	1311.06	395.78	69116.5	948.43	2.24	-0.447	0.000	0.124
50.00	-12.37	-1.76	0.00	-106.77	0.00	106.77	1311.06	395.78	69116.5	948.43	2.33	-0.455	0.000	0.122
50.00	-12.37	-1.76	0.00	-106.77	0.00	106.77	1052.07	315.62	43955.0	624.04	2.33	-0.455	0.000	0.183
51.00	-12.23	-1.75	0.00	-105.01	0.00	105.01	1052.07	315.62	43955.0	624.04	2.43	-0.463	0.000	0.180
52.00	-12.10	-1.74	0.00	-103.26	0.00	103.26	1052.07	315.62	43955.0	624.04	2.53	-0.478	0.000	0.177
53.00	-11.97	-1.73	0.00	-101.52	0.00	101.52	1052.07	315.62	43955.0	624.04	2.63	-0.493	0.000	0.174
54.00	-11.84	-1.72	0.00	-99.79	0.00	99.79	1052.07	315.62	43955.0	624.04	2.73	-0.508	0.000	0.171
55.00	-11.71	-1.71	0.00	-98.07	0.00	98.07	1052.07	315.62	43955.0	624.04	2.84	-0.523	0.000	0.168
56.00	-11.58	-1.70	0.00	-96.36	0.00	96.36	1052.07	315.62	43955.0	624.04	2.95	-0.537	0.000	0.165
57.00	-11.45	-1.69	0.00	-94.65	0.00	94.65	1052.07	315.62	43955.0	624.04	3.07	-0.551	0.000	0.163
58.00	-11.32	-1.68	0.00	-92.96	0.00	92.96	1052.07	315.62	43955.0	624.04	3.18	-0.565	0.000	0.160
59.00	-11.19	-1.67	0.00	-91.28	0.00	91.28	1052.07	315.62	43955.0	624.04	3.30	-0.578	0.000	0.157
60.00	-11.06	-1.66	0.00	-89.61	0.00	89.61	1052.07	315.62	43955.0	624.04	3.43	-0.591	0.000	0.154
61.00	-10.93	-1.65	0.00	-87.95	0.00	87.95	1052.07	315.62	43955.0	624.04	3.55	-0.604	0.000	0.151
62.00	-10.80	-1.64	0.00	-86.29	0.00	86.29	1052.07	315.62	43955.0	624.04	3.68	-0.617	0.000	0.149
63.00	-10.67	-1.63	0.00	-84.65	0.00	84.65	1052.07	315.62	43955.0	624.04	3.81	-0.630	0.000	0.146
64.00	-10.53	-1.62	0.00	-83.02	0.00	83.02	1052.07	315.62	43955.0	624.04	3.94	-0.642	0.000	0.143
65.00	-10.40	-1.61	0.00	-81.40	0.00	81.40	1052.07	315.62	43955.0	624.04	4.08	-0.654	0.000	0.140
66.00	-10.27	-1.60	0.00	-79.79	0.00	79.79	1052.07	315.62	43955.0	624.04	4.22	-0.666	0.000	0.138
67.00	-10.14	-1.59	0.00	-78.20	0.00	78.20	1052.07	315.62	43955.0	624.04	4.36	-0.677	0.000	0.135
68.00	-10.01	-1.57	0.00	-76.61	0.00	76.61	1052.07	315.62	43955.0	624.04	4.50	-0.689	0.000	0.132
69.00	-9.88	-1.56	0.00	-75.04	0.00	75.04	1052.07	315.62	43955.0	624.04	4.65	-0.700	0.000	0.130
70.00	-9.75	-1.55	0.00	-73.47	0.00	73.47	1052.07	315.62	43955.0	624.04	4.79	-0.711	0.000	0.127
71.00	-9.62	-1.54	0.00	-71.92	0.00	71.92	1052.07	315.62	43955.0	624.04	4.94	-0.721	0.000	0.124
72.00	-9.49	-1.53	0.00	-70.38	0.00	70.38	1052.07	315.62	43955.0	624.04	5.10	-0.732	0.000	0.122
73.00	-9.36	-1.52	0.00	-68.86	0.00	68.86	1052.07	315.62	43955.0	624.04	5.25	-0.742	0.000	0.119
74.00	-9.23	-1.50	0.00	-67.34	0.00	67.34	1052.07	315.62	43955.0	624.04	5.41	-0.752	0.000	0.117
75.00	-9.09	-1.48	0.00	-65.84	0.00	65.84	1052.07	315.62	43955.0	624.04	5.57	-0.761	0.000	0.114
76.00	-8.96	-1.47	0.00	-64.35	0.00	64.35	1052.07	315.62	43955.0	624.04	5.73	-0.771	0.000	0.112
77.00	-8.83	-1.46	0.00	-62.88	0.00	62.88	1052.07	315.62	43955.0	624.04	5.89	-0.780	0.000	0.109
78.00	-8.70	-1.45	0.00	-61.42	0.00	61.42	1052.07	315.62	43955.0	624.04	6.05	-0.789	0.000	0.107
79.00	-8.57	-1.43	0.00	-59.98	0.00	59.98	1052.07	315.62	43955.0	624.04	6.22	-0.798	0.000	0.104
80.00	-8.44	-1.42	0.00	-58.55	0.00	58.55	1052.07	315.62	43955.0	624.04	6.39	-0.807	0.000	0.102
80.00	-8.44	-1.42	0.00	-58.55	0.00	58.55	1052.07	315.62	43955.0	624.04	6.39	-0.807	0.000	0.102
81.00	-8.31	-1.41	0.00	-57.13	0.00	57.13	1052.07	315.62	43955.0	624.04	6.56	-0.815	0.000	0.099
82.00	-8.18	-1.39	0.00	-55.72	0.00	55.72	1052.07	315.62	43955.0	624.04	6.73	-0.824	0.000	0.097
83.00	-8.05	-1.38	0.00	-54.32	0.00	54.32	1052.07	315.62	43955.0	624.04	6.90	-0.832	0.000	0.095
84.00	-7.91	-1.37	0.00	-52.94	0.00	52.94	1052.07	315.62	43955.0	624.04	7.08	-0.840	0.000	0.092
85.00	-7.78	-1.35	0.00	-51.57	0.00	51.57	1052.07	315.62	43955.0	624.04	7.25	-0.847	0.000	0.090
86.00	-7.65	-1.34	0.00	-50.22	0.00	50.22	1052.07	315.62	43955.0	624.04	7.43	-0.855	0.000	0.088
87.00	-7.52	-1.33	0.00	-48.88	0.00	48.88	1052.07	315.62	43955.0	624.04	7.61	-0.862	0.000	0.085
88.00	-7.39	-1.31	0.00	-47.55	0.00	47.55	1052.07	315.62	43955.0	624.04	7.79	-0.869	0.000	0.083
89.00	-7.26	-1.30	0.00	-46.24	0.00	46.24	1052.07	315.62	43955.0	624.04	7.98	-0.876	0.000	0.081
90.00	-7.13	-1.29	0.00	-44.94	0.00	44.94	1052.07	315.62	43955.0	624.04	8.16	-0.883	0.000	0.079
91.00	-7.00	-1.27	0.00	-43.65	0.00	43.65	1052.07	315.62	43955.0	624.04	8.35	-0.889	0.000	0.077
92.00	-6.87	-1.26	0.00	-42.37	0.00	42.37	1052.07	315.62	43955.0	624.04	8.53	-0.895	0.000	0.074
93.00	-6.74	-1.25	0.00	-41.12	0.00	41.12	1052.07	315.62	43955.0	624.04	8.72	-0.901	0.000	0.072
94.00	-6.61	-1.23	0.00	-39.87	0.00	39.87	1052.07	315.62	43955.0	624.04	8.91	-0.907	0.000	0.070
95.00	-6.48	-1.22	0.00	-38.64	0.00	38.64	1052.07	315.62	43955.0	624.04	9.10	-0.913	0.000	0.068
96.00	-6.35	-1.20	0.00	-37.42	0.00	37.42	1052.07	315.62	43955.0	624.04	9.29	-0.919	0.000	0.066
97.00	-6.22	-1.19	0.00	-36.22	0.00	36.22	1052.07	315.62	43955.0	624.04	9.49	-0.924	0.000	0.064
98.00	-6.09	-1.17	0.00	-35.03	0.00	35.03	1052.07	315.62	43955.0	624.04	9.68	-0.929	0.000	0.062
99.00	-5.96	-1.16	0.00	-33.85	0.00	33.85	1052.07	315.62	43955.0	624.04	9.88	-0.934	0.000	0.060
100.00	-5.83	-1.15	0.00	-32.69	0.00	32.69	1052.07	315.62	43955.0	624.04	10.07	-0.939	0.000	0.058
101.00	-5.70	-1.13	0.00	-31.55	0.00	31.55	1052.07	315.62	43955.0	624.04	10.27	-0.944	0.000	0.056

Calculated Forces

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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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102.00	-5.57	-1.12	0.00	-30.42	0.00	30.42	1052.07	315.62	43955.0	624.04	10.47	-0.948	0.000	0.054
103.00	-5.44	-1.10	0.00	-29.30	0.00	29.30	1052.07	315.62	43955.0	624.04	10.67	-0.953	0.000	0.052
104.00	-5.31	-1.09	0.00	-28.20	0.00	28.20	1052.07	315.62	43955.0	624.04	10.87	-0.957	0.000	0.050
105.00	-5.18	-1.07	0.00	-27.11	0.00	27.11	1052.07	315.62	43955.0	624.04	11.07	-0.961	0.000	0.048
106.00	-5.05	-1.06	0.00	-26.04	0.00	26.04	1052.07	315.62	43955.0	624.04	11.27	-0.965	0.000	0.047
107.00	-4.92	-1.04	0.00	-24.98	0.00	24.98	1052.07	315.62	43955.0	624.04	11.47	-0.969	0.000	0.045
108.00	-4.78	-1.03	0.00	-23.94	0.00	23.94	1052.07	315.62	43955.0	624.04	11.68	-0.972	0.000	0.043
108.00	-4.78	-1.03	0.00	-23.94	0.00	23.94	1052.07	315.62	43955.0	624.04	11.68	-0.972	0.000	0.043
109.00	-4.64	-1.01	0.00	-22.91	0.00	22.91	1052.07	315.62	43955.0	624.04	11.88	-0.976	0.000	0.041
110.00	-4.42	-0.98	0.00	-21.90	0.00	21.90	1052.07	315.62	43955.0	624.04	12.08	-0.979	0.000	0.025
110.00	-4.42	-0.98	0.00	-21.90	0.00	21.90	682.83	204.85	11780.8	105.20	12.08	-0.979	0.000	0.008
111.00	-4.31	-0.96	0.00	-20.92	0.00	20.92	682.83	204.85	11780.8	105.20	12.29	-0.981	0.000	0.057
111.50	-4.26	-0.95	0.00	-20.44	0.00	20.44	682.83	204.85	11780.8	105.20	12.39	-0.991	0.000	0.056
111.50	-4.26	-0.95	0.00	-20.44	0.00	20.44	682.83	204.85	11780.8	105.20	12.39	-0.991	0.000	0.143
112.00	-4.21	-0.94	0.00	-19.96	0.00	19.96	682.83	204.85	11780.8	105.20	12.50	-1.002	0.000	0.196
113.00	-4.10	-0.93	0.00	-19.02	0.00	19.02	682.83	204.85	11780.8	105.20	12.71	-1.076	0.000	0.187
114.00	-3.99	-0.91	0.00	-18.09	0.00	18.09	682.83	204.85	11780.8	105.20	12.95	-1.147	0.000	0.178
115.00	-3.50	-0.89	0.00	-17.18	0.00	17.18	682.83	204.85	11780.8	105.20	13.19	-1.214	0.000	0.168
116.00	-3.40	-0.87	0.00	-16.29	0.00	16.29	682.83	204.85	11780.8	105.20	13.46	-1.277	0.000	0.160
117.00	-3.30	-0.85	0.00	-15.43	0.00	15.43	682.83	204.85	11780.8	105.20	13.73	-1.338	0.000	0.151
118.00	-3.20	-0.83	0.00	-14.58	0.00	14.58	682.83	204.85	11780.8	105.20	14.02	-1.395	0.000	0.143
119.00	-3.10	-0.81	0.00	-13.75	0.00	13.75	682.83	204.85	11780.8	105.20	14.31	-1.449	0.000	0.135
120.00	-2.87	-0.79	0.00	-12.94	0.00	12.94	682.83	204.85	11780.8	105.20	14.62	-1.500	0.000	0.127
121.00	-2.77	-0.77	0.00	-12.15	0.00	12.15	682.83	204.85	11780.8	105.20	14.94	-1.547	0.000	0.120
122.00	-2.66	-0.74	0.00	-11.39	0.00	11.39	682.83	204.85	11780.8	105.20	15.27	-1.592	0.000	0.112
123.00	-2.56	-0.72	0.00	-10.64	0.00	10.64	682.83	204.85	11780.8	105.20	15.61	-1.634	0.000	0.105
124.00	-2.46	-0.70	0.00	-9.92	0.00	9.92	682.83	204.85	11780.8	105.20	15.95	-1.673	0.000	0.098
125.00	-2.36	-0.68	0.00	-9.22	0.00	9.22	682.83	204.85	11780.8	105.20	16.31	-1.710	0.000	0.091
126.00	-2.26	-0.66	0.00	-8.54	0.00	8.54	682.83	204.85	11780.8	105.20	16.67	-1.744	0.000	0.084
127.00	-2.00	-0.63	0.00	-7.88	0.00	7.88	682.83	204.85	11780.8	105.20	17.04	-1.775	0.000	0.078
128.00	-1.91	-0.61	0.00	-7.25	0.00	7.25	682.83	204.85	11780.8	105.20	17.41	-1.804	0.000	0.072
129.00	-1.81	-0.59	0.00	-6.64	0.00	6.64	682.83	204.85	11780.8	105.20	17.79	-1.830	0.000	0.066
130.00	-1.59	-0.56	0.00	-6.05	0.00	6.05	682.83	204.85	11780.8	105.20	18.18	-1.854	0.000	0.060
130.00	-1.59	-0.56	0.00	-6.05	0.00	6.05	317.71	95.31	3734.62	52.28	18.18	-1.854	0.000	0.121
131.00	-1.54	-0.54	0.00	-5.49	0.00	5.49	317.71	95.31	3734.62	52.28	18.57	-1.876	0.000	0.110
132.00	-1.48	-0.52	0.00	-4.95	0.00	4.95	317.71	95.31	3734.62	52.28	18.97	-1.913	0.000	0.099
133.00	-1.42	-0.50	0.00	-4.44	0.00	4.44	317.71	95.31	3734.62	52.28	19.37	-1.946	0.000	0.089
134.00	-1.36	-0.47	0.00	-3.94	0.00	3.94	317.71	95.31	3734.62	52.28	19.78	-1.976	0.000	0.080
135.00	-1.10	-0.44	0.00	-3.47	0.00	3.47	317.71	95.31	3734.62	52.28	20.20	-2.002	0.000	0.070
136.00	-1.05	-0.42	0.00	-3.02	0.00	3.02	317.71	95.31	3734.62	52.28	20.62	-2.025	0.000	0.061
137.00	-1.00	-0.40	0.00	-2.60	0.00	2.60	317.71	95.31	3734.62	52.28	21.05	-2.045	0.000	0.053
138.00	-0.95	-0.38	0.00	-2.20	0.00	2.20	317.71	95.31	3734.62	52.28	21.48	-2.062	0.000	0.045
139.00	-0.90	-0.36	0.00	-1.82	0.00	1.82	317.71	95.31	3734.62	52.28	21.91	-2.076	0.000	0.038
140.00	-0.70	-0.25	0.00	-1.46	0.00	1.46	317.71	95.31	3734.62	52.28	22.35	-2.087	0.000	0.030
141.00	-0.65	-0.23	0.00	-1.21	0.00	1.21	317.71	95.31	3734.62	52.28	22.78	-2.097	0.000	0.025
142.00	-0.60	-0.21	0.00	-0.98	0.00	0.98	317.71	95.31	3734.62	52.28	23.22	-2.104	0.000	0.021
143.00	-0.55	-0.18	0.00	-0.78	0.00	0.78	317.71	95.31	3734.62	52.28	23.67	-2.111	0.000	0.017
144.00	-0.50	-0.16	0.00	-0.60	0.00	0.60	317.71	95.31	3734.62	52.28	24.11	-2.116	0.000	0.013
145.00	-0.26	-0.13	0.00	-0.44	0.00	0.44	317.71	95.31	3734.62	52.28	24.55	-2.119	0.000	0.009
146.00	-0.22	-0.11	0.00	-0.31	0.00	0.31	317.71	95.31	3734.62	52.28	25.00	-2.122	0.000	0.007
147.00	-0.18	-0.09	0.00	-0.20	0.00	0.20	317.71	95.31	3734.62	52.28	25.44	-2.124	0.000	0.004
148.00	-0.14	-0.06	0.00	-0.11	0.00	0.11	317.71	95.31	3734.62	52.28	25.88	-2.125	0.000	0.003
149.00	-0.11	-0.04	0.00	-0.05	0.00	0.05	317.71	95.31	3734.62	52.28	26.33	-2.125	0.000	0.001
150.00	0.00	-0.04	0.00	-0.01	0.00	0.01	317.71	95.31	3734.62	52.28	26.77	-2.125	0.000	0.000

Final Analysis Summary

Structure: CT04374-S-SBA	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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 + 1.0W 125 mph Wind	11.2	0.00	24.70	0.00	0.00	1025.77
0.9D + 1.0W 125 mph Wind	11.2	0.00	18.52	0.00	0.00	1007.67
1.2D + 1.0Di + 1.0Wi 50 mph Wind	4.7	0.00	32.05	0.00	0.00	485.55
1.2D + 1.0Ev + 1.0Eh	0.3	0.00	25.61	0.00	0.00	33.27
0.9D + 1.0Ev + 1.0Eh	0.3	0.00	19.37	0.00	0.00	32.87
1.0D + 1.0W 60 mph Wind	2.3	0.00	20.59	0.00	0.00	209.24

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 + 1.0W 125 mph Wind	-4.67	-4.65	0.00	-97.99	0.00	-97.99	682.83	204.85	11780.8	105.20	112.00	0.939
0.9D + 1.0W 125 mph Wind	-3.42	-4.53	0.00	-95.01	0.00	-95.01	682.83	204.85	11780.8	105.20	112.00	0.909
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-8.32	-2.64	0.00	-55.13	0.00	-55.13	682.83	204.85	11780.8	105.20	112.00	0.536
1.2D + 1.0Ev + 1.0Eh	-21.16	-0.30	0.00	-27.41	0.00	-27.41	1490.10	475.94	99948.2	1339.68	20.00	0.045
0.9D + 1.0Ev + 1.0Eh	-16.00	-0.29	0.00	-27.05	0.00	-27.05	1490.10	475.94	99948.2	1339.68	20.00	0.041
1.0D + 1.0W 60 mph Wind	-4.21	-0.94	0.00	-19.96	0.00	-19.96	682.83	204.85	11780.8	105.20	112.00	0.196

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
110.0	111.5	(3) PLT-5"x3/4" STFNR	371.3	0.00	25.3	22.4	25.3	1	0	94.4	25.3	4	0	96.68	121.5	121.50	0.796

Base Plate Summary

Structure: CT04374-S-SB	Code: TIA-222-H	7/5/2023
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (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): 36.00	Bolt Circle: 39.00
Moment (kip-ft): 666.50	Width (in): 42.38	Number Bolts: 28.00
Axial (kip): 16.50	Style: Round	Bolt Type: 1.0" F1554 105
Shear (kip): 8.00	Polygon Sides: 0.00	Bolt Diameter (in): 1.00
Analysis (1.2D + 1.0W)	Clip Length (in): 0.00	Yield (ksi): 105.00
Moment (kip-ft): 1025.77	Effective Len (in): 10.71	Ultimate (ksi): 125.00
Axial (kip): 24.70	Moment (kip-in): 68.96	Arrangement: Radial
Shear (kip): 11.19	Allow Stress (ksi): 48.60	Cluster Dist (in): 0.00
	Applied Stress (ksi): 24.79	Start Angle (deg): 0.00
	Stress Ratio: 0.51	Compression
		Force (kip): 45.97
		Allowable (kip): 74.22
		Ratio: 0.62
		Tension
		Force (kip): 44.21
		Allowable (kip): 56.78
		Ratio: 0.78



Monopole Mat Foundation Design

Date
6/28/2023

Customer Name:	AT&T	TIA Standard:	TIA-222-H
Site Name:		Structure Height (Ft.):	150
Site Number:	CT04374-S-SBA	Engineer Name:	H. You
Engr. Number:	141434	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations
Monopole
Analysis

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	25.6	Shear Force (Kips):	11.2
Uplift Force (Kips):	0.0	Moment (Kips-ft):	1025.8

Allowable overstress %: 5.0%

Foundation Geometries:

		Mods required -Yes/No ?:	Yes
Diameter of Pier (ft.):	4.4	Depth of Base BG (ft.):	4.5
Pier Height A. G. (ft.):	0.50	Thickness of Pad (ft.):	2.00
Length of Pad (ft.):	14.5	Width of Pad (ft.):	14.5
Add Concrete Width & Length (ft.)	6.8	Add Concrete Thick. (ft)	2
Final Length of pad (ft)	14.5	Final width of pad (ft):	14.5

Material Properties and Reabr Info:

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	15	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	6	
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):	15	Qty. of Rebar in Pad (W):	15
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Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	15	Qty. of Rebar in Pad (W):	15
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Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

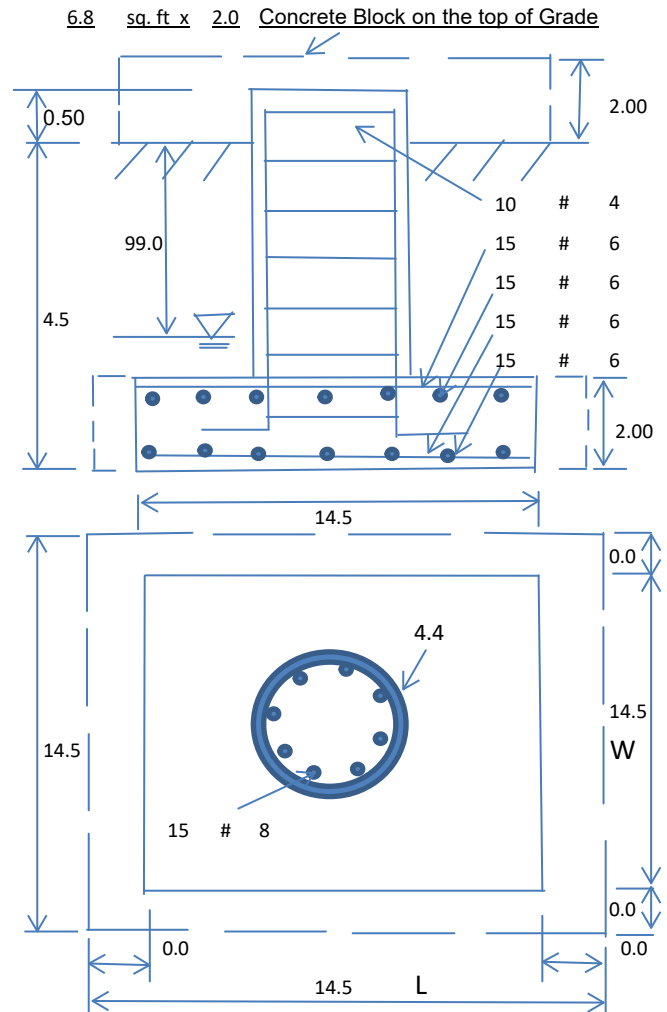
Soil Unit Weight (pcf):	130.0	Soil Buoyant Weight:	50.0	Pcf	
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad: 30
Ultimate Bearing Pressure (psf):	30000	Ultimate Skin Friction:	200	Psf	Angle from Bottm of Pad: 25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No		Angle from Bottm of Pad: 25
Consider soil hor. resist. for OTM.:	Yes	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.):	487.61	Total Dry Soil Weight (Kips):	63.39
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	63.39	Weight from the Concrete Block at Top (K):	12.73
Total Dry Concrete Volume (cu. Ft.):	550.99	Total Dry Concrete Weight (Kips):	82.65
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	82.65	Total Vertical Load on Base (Kips):	171.64

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	4490	<	Allowable Factored Soil Bearing (psf):	22500	0.20	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	1138.5	>	Design Factored Momont (kips-ft):	1045	0.92	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.09					OK!



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):	0.79	Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	1162.2	> Design Factored Moment (Mu, Kips-F	1059.4	0.91	OK!
Calculated Shear Capacity (Kips):	376.7	> Design Factored Shear (Kips):	11.2	0.03	OK!
Calculated Tension Capacity (Tn, Kips):	639.9	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	3850.2	> Design Factored Axial Load (Pu Kips):	25.6	0.01	OK!
Moment & Axial Strength Combination:	0.91	OK! Check Tie Spacing (Design/Required):		0.5	OK!
Pier Reinforcement Ratio:	0.005	Reinforcement Ratio is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	340.5	> One-Way Factored Shear (L-D. Kips):	108.1	0.32	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	340.5	> One-Way Factored Shear (W-D., Kips)	108.1	0.32	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	297.5	> One-Way Factored Shear (C-C, Kips):	106.8	0.36	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0018	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0018		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	602.6	> Moment at Bottom (L-Dir. K-Ft):	312.4	0.52	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	602.6	> Moment at Bottom (W-Dir. K-Ft):	312.4	0.52	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	848.4	> Moment at Bottom (C-C Dir. K-Ft):	441.9	0.52	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0018	OK! Upper Steel Reinf. Ratio (W-Dir.):	0.0018		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	602.6	> Moment at the top (L-Dir K-Ft):	127.2	0.21	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	602.6	> Moment at the top (W-Dir K-Ft):	127.2	0.21	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	848.4	> Moment at the top (C-C Dir. K-Ft):	119.8	0.14	OK!

(3).Check Punching Shear Capacity due to Moment in the Pier:

Moment transferred by punching shear:	410.3	k-ft.	Max. factored shear stress v_{u_CD} :	3.7	Psi
Max. factored shear stress v_{u_AB} :	12.1	Psi	Factored shear Strength ϕv_n :	189.7	Psi
Max. factored shear stress v_u :	12.1	Psi	Check Usage of Punching Shear Capacity:	0.06	OK!

(4).Check Bending Capacity of the Pad Within the Effective Slab Width:

Overturning moment to be transferred by flexure:	307.7	k-ft.	Effective Width for resisting OT moment:	10.4	ft.
Calculated number of Rebar in Effective width:	11		Actual number of Rebar in Effective width:	13	
Steel Pad Moment Capacity (L-Direc. Kips-ft):	520.5	k-ft.	Check Usage of the Flexure Capacity:	0.59	OK!

PROJECT INFORMATION

SCOPE OF WORK: **ITEMS TO BE MOUNTED WITHIN THE EXISTING FLAGPOLE:**

- NEW AT&T ANTENNAS: 800-372965K (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- NEW AT&T TMAS:TMA2093F02V1-1D (TYP. OF 2 PER SECTOR, TOTAL OF 6)
- NEW AT&T (6) LINES OF 7/8" COAX.

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:

- INSTALL (1) 6651+XCEDE IN EXISTING RACK
- INSTALL (1) DC 12
- INSTALL (2) RECTIFIERS IN EXISTING POWER PLANT
- NEW AT&T RRUS 8843 B2/B66A (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- NEW AT&T RRUS 4449 B5/B12 (850/700) (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- NEW AT&T SURGE ARRESTOR: TSXDC-4310FM (TYP. OF 12 PER SECTOR, TOTAL OF 36)
- NEW AT&T SMART BIAS-TEES: 782-11055 (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- NEW AT&T DIPLEXERS: CBC61923T-DS (TYP. OF 4 PER SECTOR, TOTAL OF 12)
- FINAL BBU CONFIG= 1x6630/1x6651+XCEDE.

ITEMS TO BE REMOVED:

- EXISTING AT&T ANTENNAS: (AM-X-CD-16-65-00T-RET) (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- EXISTING AT&T RRUS 11 B12 (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- EXISTING AT&T RRUS 12 B2 (TYP. OF 1 PER SECTOR, TOTAL OF 3)
- EXISTING AT&T DIPLEXERS: TPX-070821 (TOTAL OF 6)
- EXISTING AT&T TRIPLEXERS: 070821 (TOTAL OF 6)
- EXISTING AT&T TMAS: DTMABP7819VG12A (TOTAL OF 3)

ITEMS TO REMAIN:

(6) LINES OF 7/8" COAX CABLES.

RFDS: FINAL/APPROVED RFDS V4.00 04/16/23

SITE ADDRESS: 66 WALL STREET
HEBRON, CT 06248

LATITUDE: 41.664691° N, 41° 39' 52.89" N

LONGITUDE: -72.361398° W, 72° 21' 41.03" W

TYPE OF SITE: FLAGPOLE / OUTDOOR EQUIPMENT

STRUCTURE HEIGHT: 150'-0"±

RAD CENTER: 115'-0"±

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY



NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)

- TEP NORTHEAST (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

SITE NUMBER: CTL05865
SITE NAME: HEBRON EAST
FA CODE: 10090900

PACE ID: MRCTB062896, MRCTB062897, MRCTB062898
PROJECT: LTE MULTI CARRIER BWE TOWER TOP RRH, LTE SOFTWARE CARRIER LTE 3C, 5G NR 1SR 2023 UPGRADE

VICINITY MAP

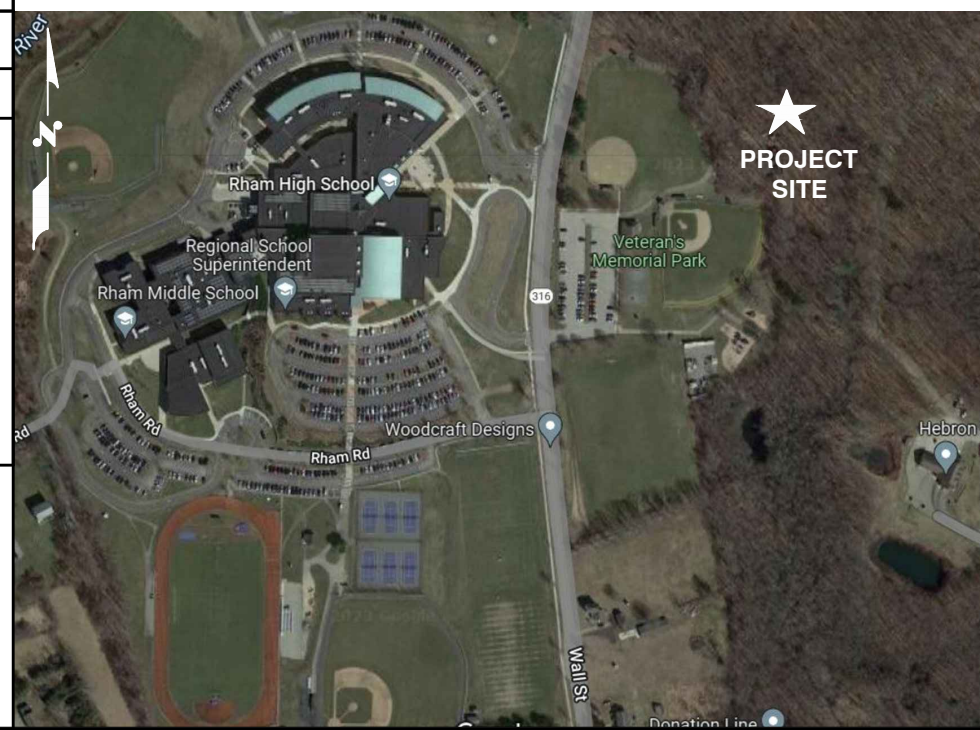
DIRECTIONS TO SITE:
 I-91 NORTH. GET OFF AT EXIT 25/26 KEEP LEFT ON EXIT 25, THIS EXIT WILL TAKE YOU OVER THE PUTNUM BRIDGE, STAY IN THE RIGHT HAND LANE AND TAKE ROUTE 2 EAST/SOUTH. STAY ON ROUTE 2 AND GO TO EXIT 13 (RT 66), AND THE END OF THE EXIT TAKE A LEFT ONTO ROUTE 66. STAY ON ROUTE 66 AND YOU WILL CROSS ROUTES 85 AFTER YOU CROSS ROUTE 85 TAKE LEFT AT LIGHT ONTO RT 316. FOLLOW ROUTE 316 ABOUT A HALF MILE DOWN THE ROAD AND LOOK TO YOUR RIGHT FOR A PARK ACROSS FROM RHAM HIGH SCHOOL. YOU WILL SEE A FLAG POLE/MONOPOLE IN THE BACK END OF THE PARK.

GENERAL NOTES

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND & EQUIPMENT PLAN	1
A-2	ANTENNA PLANS & ELEVATION	1
A-3	DETAILS	1
G-1	GROUNDING DETAILS	1
RF-1	RF PLUMBING DIAGRAM	1

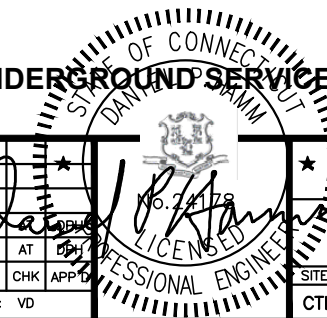


72 HOURS



CALL BEFORE YOU DIG
 CALL TOLL FREE 1-800-922-4455
 OR CALL 811

UNDERGROUND SERVICE ALERT



TEP OPCO, LLC.
 45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
 TEL: (978) 557-5553

SMARTLINK
 1997 ANNAPOLIS EXCHANGE PKWY SUITE 200
 ANNAPOLIS, MD 21401

SITE NUMBER: CTL05865
SITE NAME: HEBRON EAST

66 WALL STREET
 HEBRON, CT 06248
 TOLLAND COUNTY

500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	12/12/23	ISSUED FOR REVIEW	VD	AT	
0	04/07/23	ISSUED FOR REVIEW	VD	AT	

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VD

AT&T

TITLE SHEET
 LTE MULTI CARRIER BWE TOWER TOP RRH, LTE SOFTWARE CARRIER LTE 3C, 5G NR 1SR

SITE NUMBER	DRAWING NUMBER	REV
CTL05865	T-1	1

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR – SMARTLINK
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER – AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. **APPLICABLE BUILDING CODES:**
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

**BUILDING CODE: IBC 2021 WITH 2022 CT STATE BUILDING CODE AMENDMENTS
 ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE (NFPA 70-2020)**

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

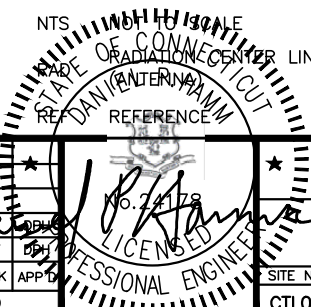
AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

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

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL

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

ABBREVIATIONS					
AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	REF	REFERENCE	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING				



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 NORTHEAST
 TEP OPCO, LLC.
 45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
 TEL: (978) 557-5553

smartlink
 SMARTLINK
 1997 ANNAPOLIS EXCHANGE PKWY SUITE 200
 ANNAPOLIS, MD 21401

**SITE NUMBER: CTL05865
 SITE NAME: HEBRON EAST**
 66 WALL STREET
 HEBRON, CT 06248
 TOLLAND COUNTY

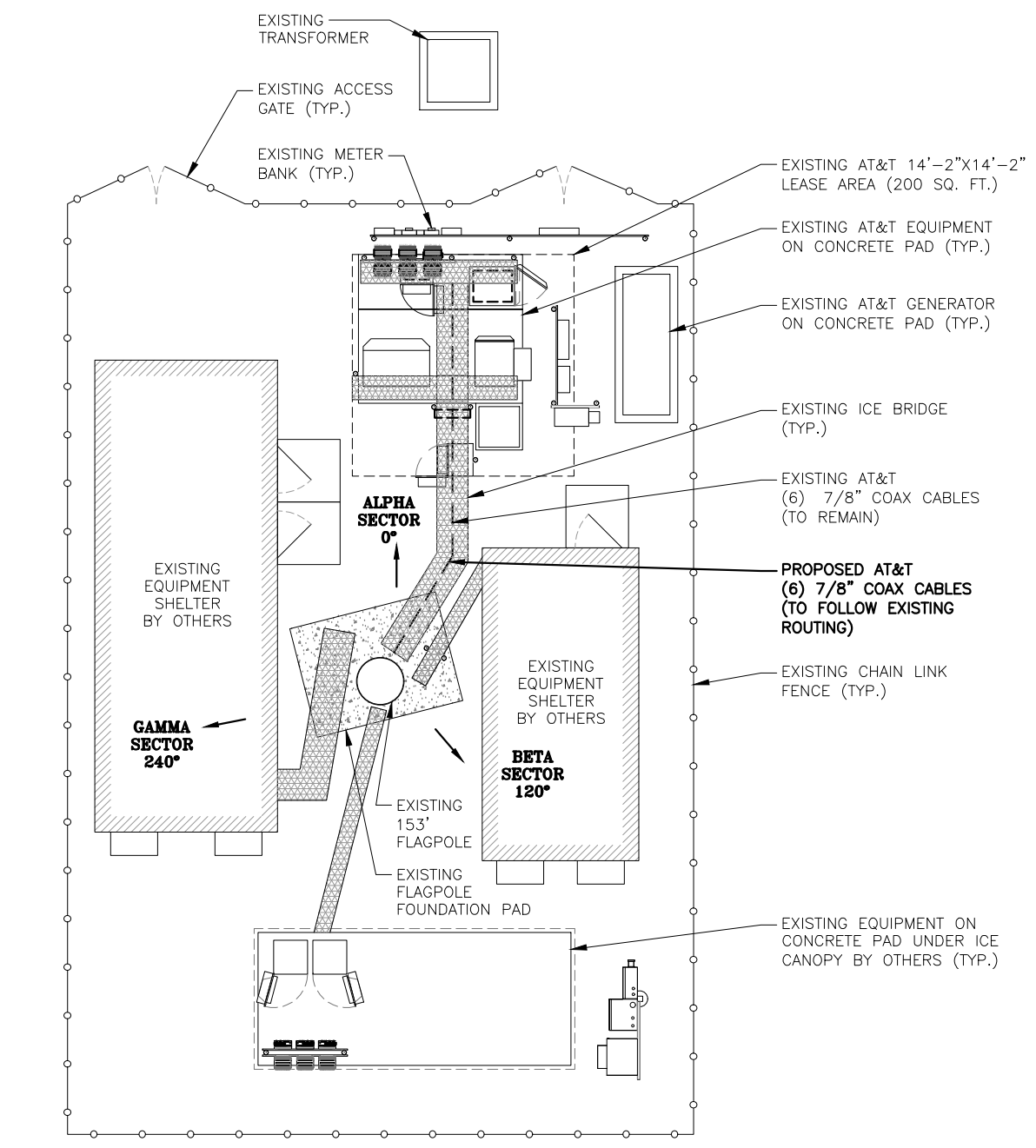
at&t
 500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

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0	04/07/23	ISSUED FOR REVIEW	VD	AT	APP'D
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: VD		

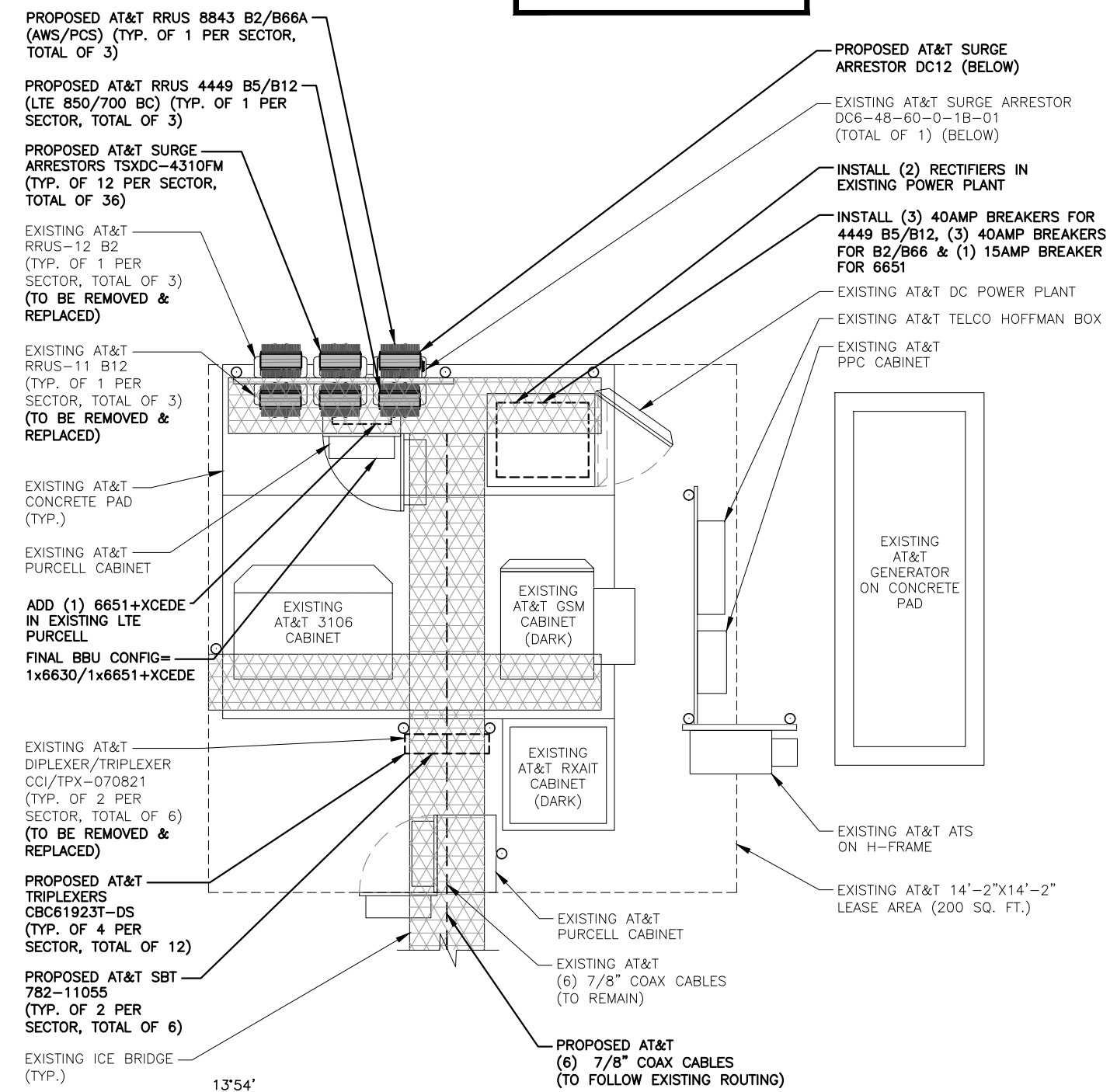
AT&T
 GENERAL NOTES
 LTE MULTI CARRIER BWE TOWER TOP RRH, LTE SOFTWARE CARRIER LTE 3C, 5G NR 1SR
 SITE NUMBER: CTL05865
 DRAWING NUMBER: GN-1
 REV: 1

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

NOTE:
REFER TO FINAL/APPROVED RFDS V4.00 04/16/23



COMPOUND PLAN
22x34 SCALE: 3/16"=1'-0"
11x17 SCALE: 3/32"=1'-0"
1
A-1

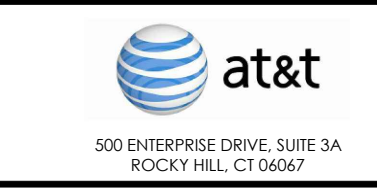


EQUIPMENT PLAN
22x34 SCALE: 1/2"=1'-0"
11x17 SCALE: 1/4"=1'-0"
2
A-1

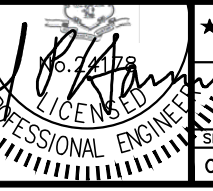


SITE NUMBER: CTL05865
SITE NAME: HEBRON EAST

66 WALL STREET
HEBRON, CT 06248
TOLLAND COUNTY



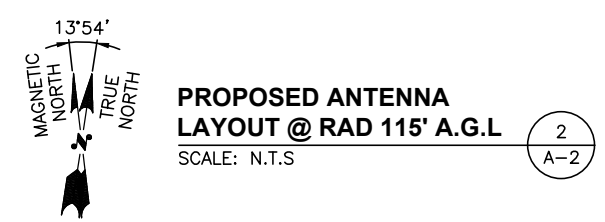
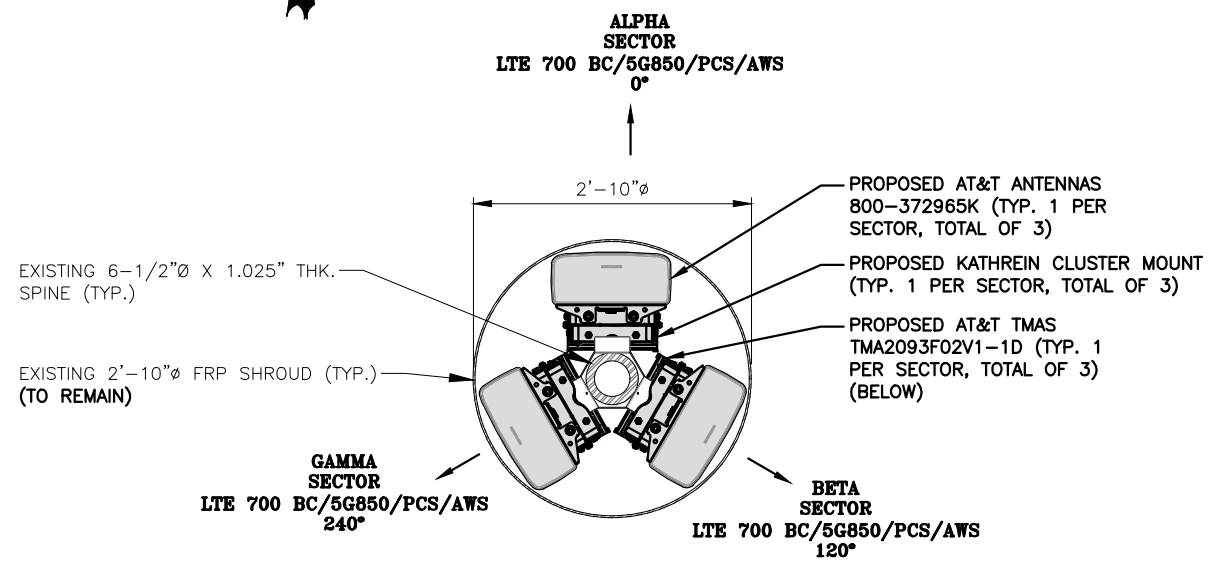
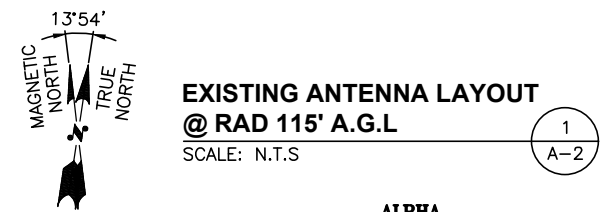
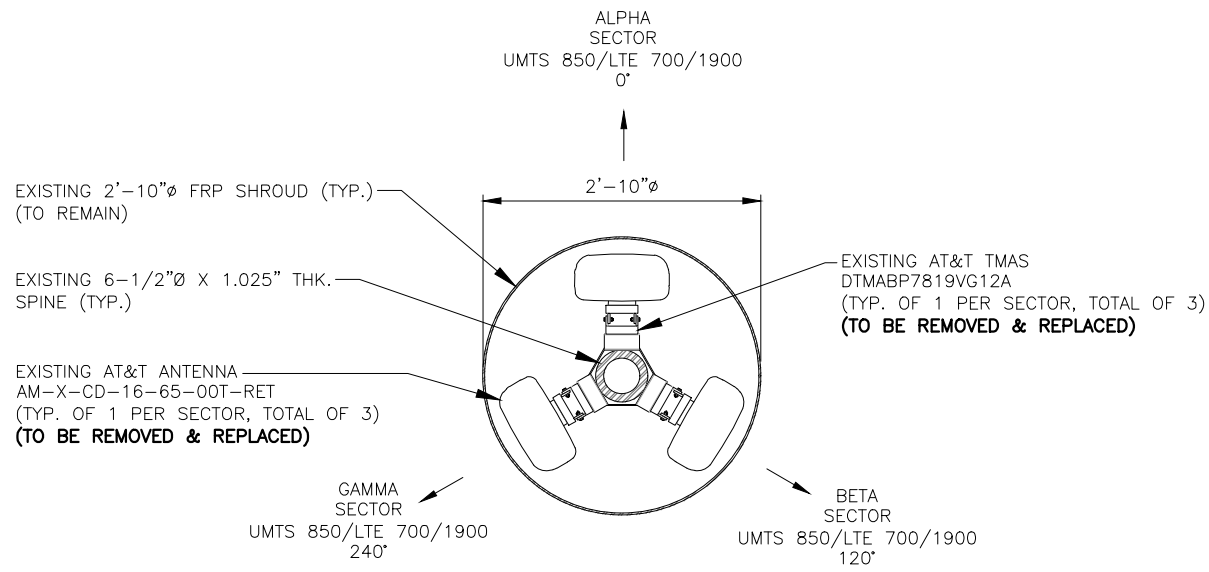
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AT&T	
COMPOUND & EQUIPMENT PLANS LTE MULTI CARRIER BWE TOWER TOP RRH, LTE SOFTWARE CARRIER LTE 3C, 5G NR 1SR	
SITE NUMBER	DRAWING NUMBER
CTL05865	A-1
	1

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

NOTE:
REFER TO FINAL/APPROVED RFDS V4.00 04/16/23



TOP OF FLAGPOLE
ELEV. 150'-0"± (AGL)

C OF PROPOSED AT&T ANTENNAS
ELEV. 115'-0"± (AGL)

EXISTING 2'-10" FRP SHROUD (TYP.) (TO REMAIN)

EXISTING ANTENNAS BY OTHERS (TYP.)

PROPOSED AT&T ANTENNAS 800-372965K (TYP. 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T TMA TMA2093F02V1-1D (TYP. 1 PER SECTOR, TOTAL OF 3) (BELOW)

EXISTING AT&T (6) 7/8" COAX CABLES (TO REMAIN)

PROPOSED AT&T (6) 7/8" COAX CABLES (TO FOLLOW EXISTING ROUTING)

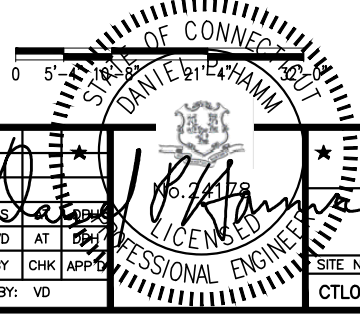
EXISTING 150' FLAGPOLE

NOTE:
GROUND EQUIPMENT NOT SHOWN FOR CLARITY.

GROUND LEVEL
ELEV. 0'-0"± (AGL)

ELEVATION
22x34 SCALE: 3/32"=1'-0"
11x17 SCALE: 3/64"=1'-0"

3
A-2



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smartlink
SMARTLINK
1997 ANNAPOLIS EXCHANGE PKWY SUITE 200
ANNAPOLIS, MD 21401

SITE NUMBER: CTL05865
SITE NAME: HEBRON EAST
66 WALL STREET
HEBRON, CT 06248
TOLLAND COUNTY

at&t
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	12/12/23	ISSUED FOR REVIEW	VD	AT	DP
0	04/07/23	ISSUED FOR REVIEW	VD	AT	DP

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VD

AT&T

ANTENNA PLANS & ELEVATION
LTE MULTI CARRIER BWE TOWER TOP RRH, LTE SOFTWARE CARRIER LTE 3C, 5G NR 1SR

SITE NUMBER	DRAWING NUMBER	REV
CTL05865	A-2	1

ANTENNA SCHEDULE

FINAL/APPROVED RFDS V4.00 04/16/23

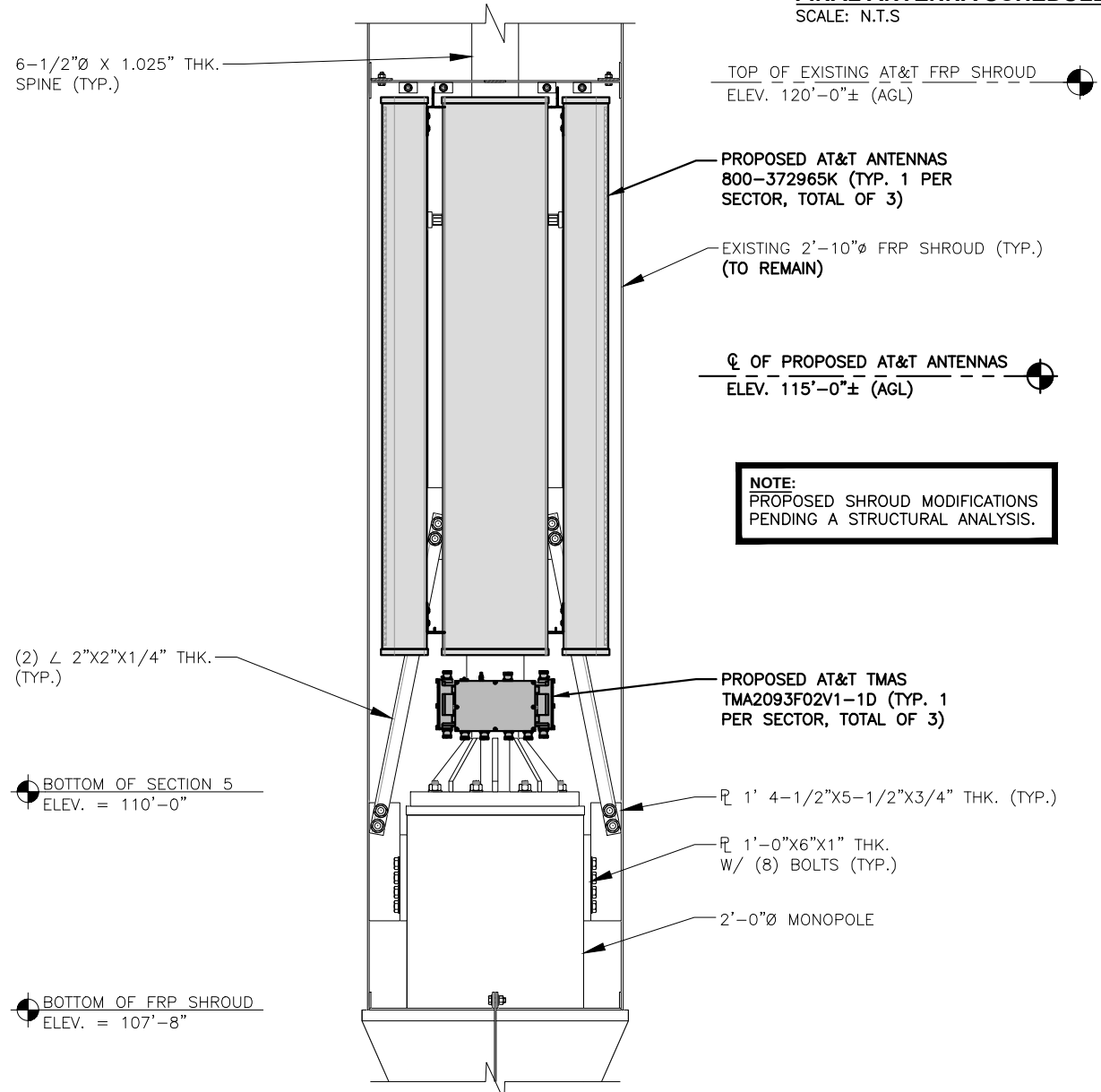
SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA CL HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	PROPOSED	LTE 700 BC/5G850/PCS/AWS	800-372965K	77"X14"X6"	115'-0"±	0°	(12)(P)(G) TSXDC-4310FM (2)(P) TMA2093F02V101D (2)(P)(G) SBT 782-11055 (4)(P)(G) CBC61923T-DS	(1)(P)(G) RRUS 4449 B5/B12 (LTE 850/700 BC) (1)(P)(G) RRUS 8843 B2/B66A (AWS/PCS)	17.9"x13.2"x10.4" 14.9"x13.2"x10.9"	(2)(E) 7/8" COAX (2)(P)7/8" COAX	-
B1	PROPOSED	LTE 700 BC/5G850/PCS/AWS	800-372965K	77"X14"X6"	115'-0"±	120°	(12)(P)(G) TSXDC-4310FM (2)(P) TMA2093F02V101D (2)(P)(G) SBT 782-11055 (4)(P)(G) CBC61923T-DS	(1)(P)(G) RRUS 4449 B5/B12 (LTE 850/700 BC) (1)(P)(G) RRUS 8843 B2/B66A (AWS/PCS)	17.9"x13.2"x10.4" 14.9"x13.2"x10.9"	(2)(E) 7/8" COAX (2)(P)7/8" COAX	-
C1	PROPOSED	LTE 700 BC/5G850/PCS/AWS	800-372965K	77"X14"X6"	115'-0"±	240°	(12)(P)(G) TSXDC-4310FM (2)(P) TMA2093F02V101D (2)(P)(G) SBT 782-11055 (4)(P)(G) CBC61923T-DS	(1)(P)(G) RRUS 4449 B5/B12 (LTE 850/700 BC) (1)(P)(G) RRUS 8843 B2/B66A (AWS/PCS)	17.9"x13.2"x10.4" 14.9"x13.2"x10.9"	(2)(E) 7/8" COAX (2)(P)7/8" COAX	-

NOTE:
REFER TO FINAL/APPROVED RFDS
V4.00 04/16/23

NOTE:
AN ANALYSIS FOR THE CAPACITY OF
THE EXISTING STRUCTURES TO
SUPPORT THE PROPOSED EQUIPMENT
SHALL BE DETERMINED PRIOR TO
CONSTRUCTION.

FINAL ANTENNA SCHEDULE
SCALE: N.T.S.

1
A-3



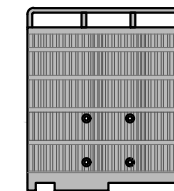
NOTE:
PROPOSED SHROUD MODIFICATIONS
PENDING A STRUCTURAL ANALYSIS.

RRU CHART

QUANTITY	MODEL	SIZE (L x W x D)	WEIGHT
3(P)	4449 (850/700)	17.9"x13.2"x10.4"	73 LBS.
3(P)	8843 (PCS/AWS)	14.9"x13.2"x10.9"	72 LBS.

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS

NOTE:
SEE RFDS FOR RRH
FREQUENCY AND
MODEL NUMBER



PROPOSED RRU REFER TO THE
FINAL RFDS AND CHART FOR
QUANTITY, MODEL AND DIMENSIONS

NOTE:
MOUNT PER MANUFACTURER'S
SPECIFICATIONS.

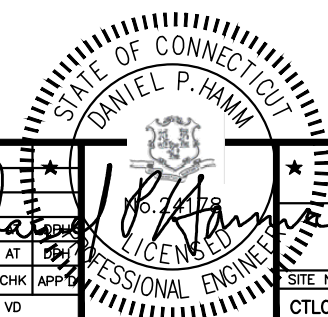
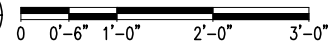
PROPOSED RRUS DETAIL
SCALE: N.T.S.

3
A-3

PROPOSED ANTENNA MOUNTING DETAIL

22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"

2
A-3



SITE NUMBER: CTL05865
SITE NAME: HEBRON EAST

66 WALL STREET
HEBRON, CT 06248
TOLLAND COUNTY



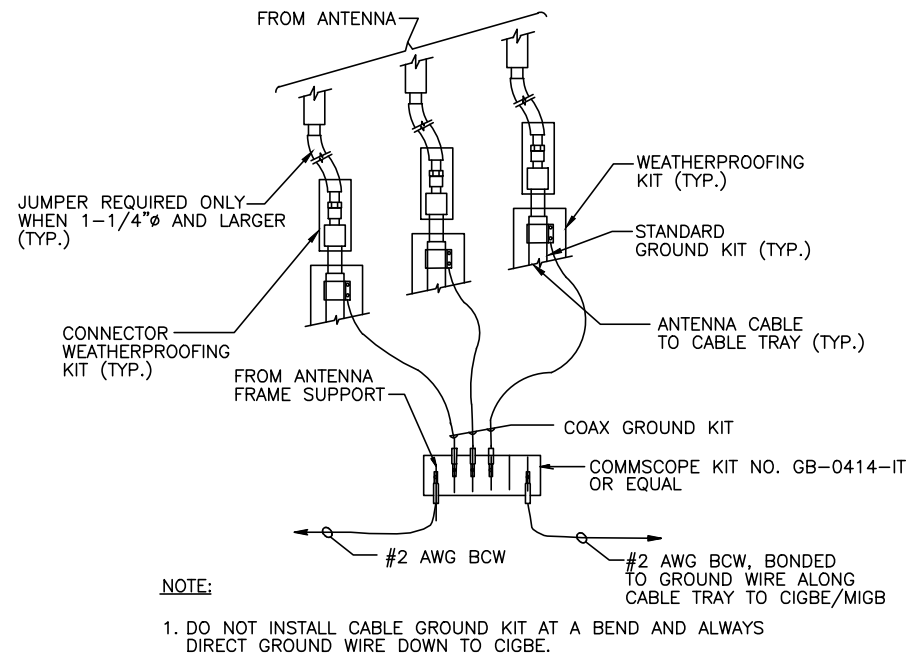
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SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VD

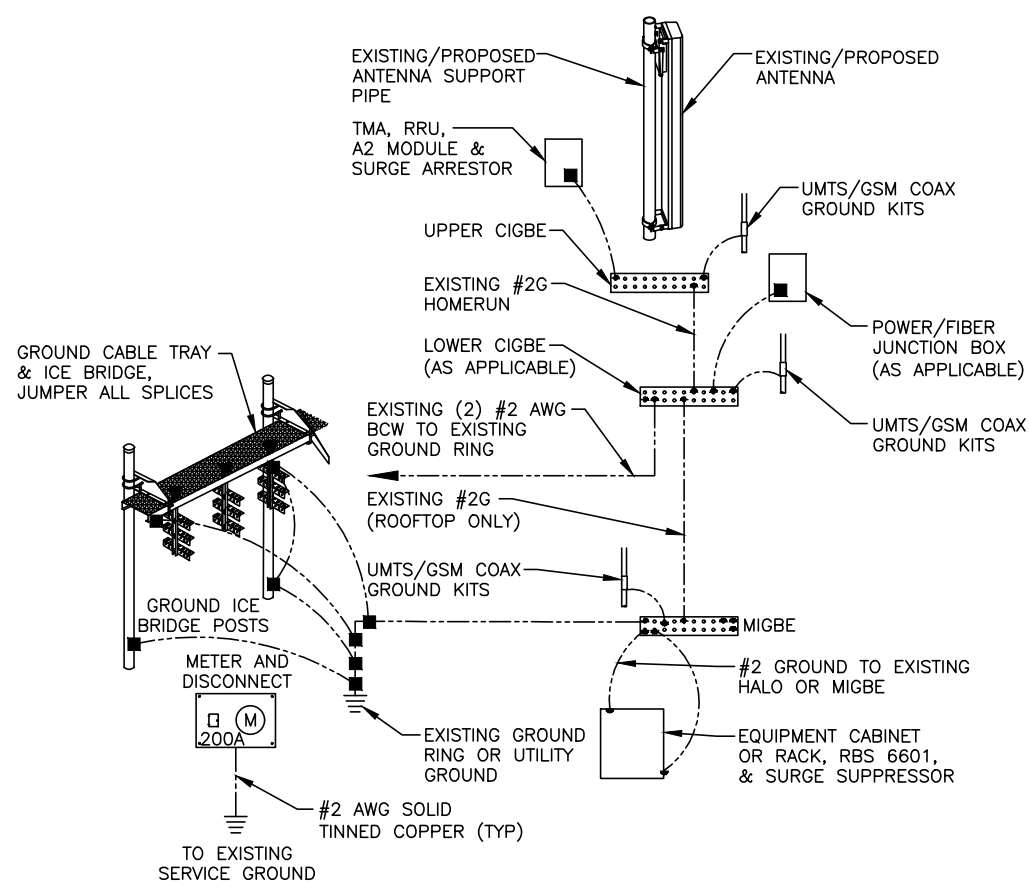
AT&T

DETAILS
LTE MULTI CARRIER BWE TOWER TOP RRH, LTE
SOFTWARE CARRIER LTE 3C, 5G NR 1SR

SITE NUMBER	DRAWING NUMBER	REV
CTL05865	A-3	1

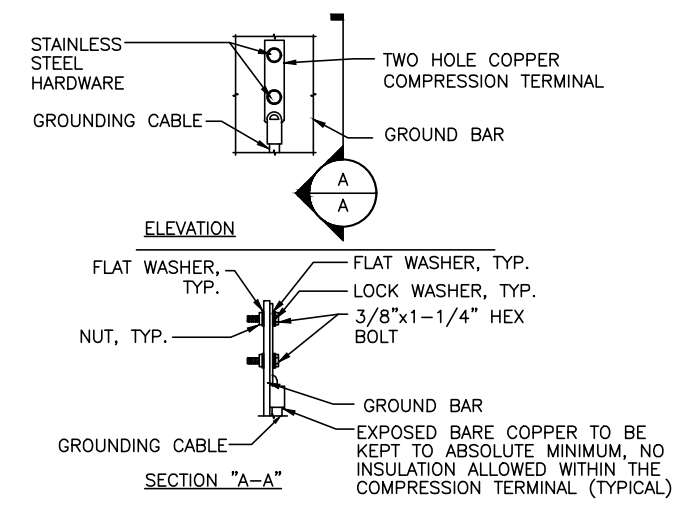


GROUND WIRE TO GROUND BAR CONNECTION DETAIL 1
SCALE: N.T.S. G-1



GROUNDING RISER DIAGRAM 2
SCALE: N.T.S. G-1

AT&T GROUNDING STANDARDS TO BE FOLLOWED:
ATT-TP-76416
ATT-TP-76300
ATT-CEM-18002
ATT-002-290-531
ATT-002-290-701
ATT-CEM-23001



NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

TYPICAL GROUND BAR CONNECTION DETAIL 3
SCALE: N.T.S. G-1

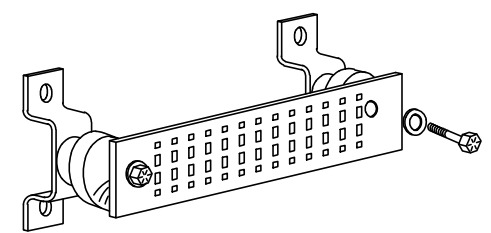
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

- CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
- +24V POWER SUPPLY RETURN BAR (#2 AWG)
- 48V POWER SUPPLY RETURN BAR (#2 AWG)
- RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS

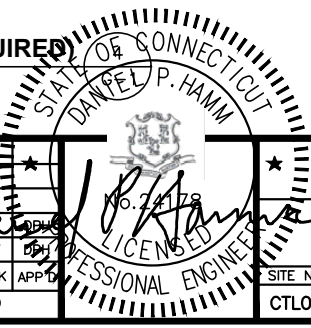
- INTERIOR GROUND RING (#2 AWG)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2 AWG)
- BUILDING STEEL (IF AVAILABLE) (#2 AWG)



GROUND BAR - DETAIL (AS REQUIRED)
SCALE: N.T.S.

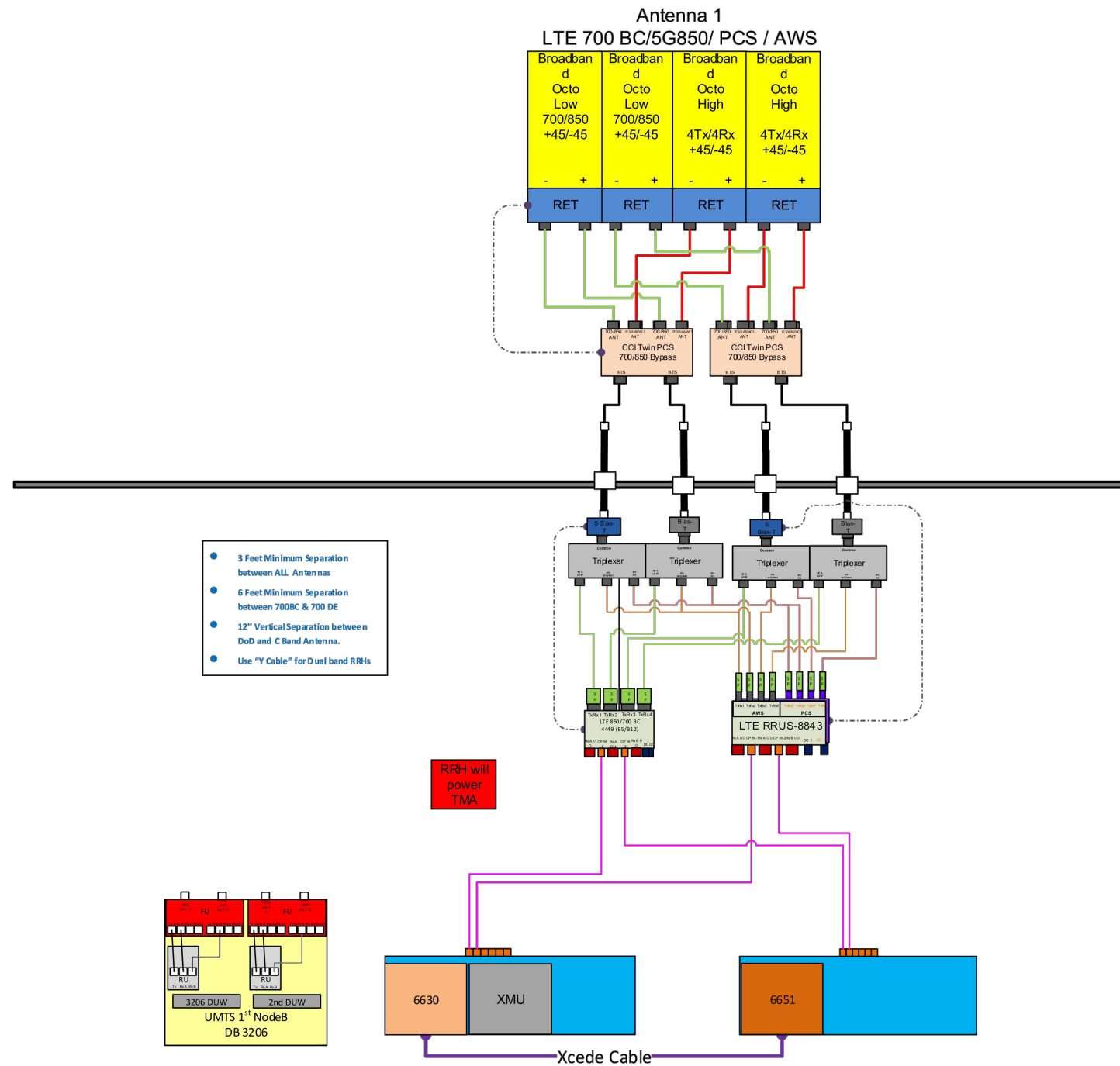
NO.	DATE	REVISIONS	BY	CHK	APP'D
1	12/12/23	ISSUED FOR REVIEW	VD	AT	VD
0	04/07/23	ISSUED FOR REVIEW	VD	AT	VD

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: VD



AT&T		
GROUNDING DETAILS LTE MULTI CARRIER BWE TOWER TOP RRH, LTE SOFTWARE CARRIER LTE 3C, 5G NR 1SR		
SITE NUMBER	DRAWING NUMBER	REV
CTL05865	G-1	1

FINAL/APPROVED RFDS V4.00 04/16/23



- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

RRH will power TMA

NOTE:
 1. CONTRACTOR TO CONFIRM ALL PARTS.
 2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

NOTE:
 REFER TO FINAL/APPROVED RFDS V4.00 04/16/23

RF PLUMBING DIAGRAM 1
 SCALE: N.T.S. RF-1

TEP NORTHEAST
 TEP OPCO, LLC.
 45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
 TEL: (978) 557-5553

SMARTLINK
 1997 ANNAPOLIS EXCHANGE PKWY SUITE 200
 ANNAPOLIS, MD 21401

SITE NUMBER: CTL05865
SITE NAME: HEBRON EAST
 66 WALL STREET
 HEBRON, CT 06248
 TOLLAND COUNTY

500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	12/12/23	ISSUED FOR REVIEW	JS	AT	DPH
0	04/07/23	ISSUED FOR REVIEW	VD	AT	DPH
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: VD		

AT&T		
RF PLUMBING DIAGRAM LTE MULTI CARRIER BWE TOWER TOP RRH, LTE SOFTWARE CARRIER LTE 3C, 5G NR 1SR		
SITE NUMBER	DRAWING NUMBER	REV
CTL05865	RF-1	1

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS



Site Name:	HEBRON EAST
AT&T Mobility FA#	10090900
Site ID:	CTL05865
Project Name:	LTE
Address:	66 WALL STREET, HEBRON, CT 06248
County:	TOLLAND
Latitude:	41.66469
Longitude:	-72.36139
Structure Type:	STEALTH POLE-INTRNL ARRAY
Property Owner:	NA
Property Contact:	NA

AT&T Existing Facility

Report Information

Report Writer:	Monti Kumar	Report Generated Date:	12-21-2023
-----------------------	-------------	-------------------------------	------------

Site Compliance Statement

Compliance Status	Compliant
Cumulative General Population % MPE (Ground Level)	0.2312%

December 21, 2023

Emissions Analysis for Site: **CTL05865– HEBRON EAST**

MobileComm Professionals, Inc was directed to analyze the proposed AT&T facility located at **66 WALL STREET, HEBRON, CT 06248**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu W/cm^2$). The number of mW/cm^2 or $\mu W/cm^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm^2). The general population exposure limits for the 700 and 850 MHz Bands are approximately $0.467 mW/cm^2$ and $0.567 mW/cm^2$ respectively or $466.667 \mu W/cm^2$ and $566.667 \mu W/cm^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS), 2300 MHz (WCS), 3540 MHz (DoD Band) and 3840 MHz (C-Band) bands is $1 mW/cm^2$ or $1000 \mu W/cm^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

1. Theoretical Calculations: Methods and Procedures

MobileComm Professionals, Inc has performed theoretical modeling of the site using a software tool, RoofMaster® Version 40.12.23.2022, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at the ground.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.

2. Antenna Inventory & Power Data

Sector	Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power Per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density (μW/cm ²)	Allowable MPE (μW/cm ²)	Calculated MPE%
A	1	AT&T	Kathrein	800372965	Panel	700	LTE(B12)	0	65	12.25	6.5	4	40.00	2393.98	3927.53	115.00	0.002328	466.67	0.000499
A	1	AT&T	Kathrein	800372965	Panel	850	5G	0	65	12.95	6.5	4	40.00	2812.68	4614.45	115.00	0.001583	566.67	0.000279
A	1	AT&T	Kathrein	800372965	Panel	1900	LTE/5G	0	65	16.35	6.5	4	40.00	6153.47	10095.32	115.00	0.000630	1000.00	0.000063
A	1	AT&T	Kathrein	800372965	Panel	2100	LTE/5G	0	65	16.55	6.5	4	40.00	6443.47	10571.10	115.00	0.000427	1000.00	0.000043
B	2	AT&T	Kathrein	800372965	Panel	700	LTE(B12)	120	65	12.25	6.5	4	40.00	2393.98	3927.53	115.00	0.000260	466.67	0.000056
B	2	AT&T	Kathrein	800372965	Panel	850	5G	120	65	12.95	6.5	4	40.00	2812.68	4614.45	115.00	0.000267	566.67	0.000047
B	2	AT&T	Kathrein	800372965	Panel	1900	LTE/5G	120	65	16.35	6.5	4	40.00	6153.47	10095.32	115.00	0.000249	1000.00	0.000025
B	2	AT&T	Kathrein	800372965	Panel	2100	LTE/5G	120	65	16.55	6.5	4	40.00	6443.47	10571.10	115.00	0.000122	1000.00	0.000012
C	3	AT&T	Kathrein	800372965	Panel	700	LTE(B12)	240	65	12.25	6.5	4	40.00	2393.98	3927.53	115.00	0.140787	466.67	0.030169
C	3	AT&T	Kathrein	800372965	Panel	850	5G	240	65	12.95	6.5	4	40.00	2812.68	4614.45	115.00	0.135272	566.67	0.023872
C	3	AT&T	Kathrein	800372965	Panel	1900	LTE/5G	240	65	16.35	6.5	4	40.00	6153.47	10095.32	115.00	0.132225	1000.00	0.013222
C	3	AT&T	Kathrein	800372965	Panel	2100	LTE/5G	240	65	16.55	6.5	4	40.00	6443.47	10571.10	115.00	0.126511	1000.00	0.012651
A	4	T-Mobile	Rosenberger	D2WC-21	Panel	600	LTE	0	69	10.75	4	2	30.00	635.55	1042.68	127.00	0.000392	400.00	0.000098
A	4	T-Mobile	Rosenberger	D2WC-21	Panel	600	5G	0	69	10.75	4	1	80.00	847.40	1390.24	127.00	0.000522	400.00	0.000131
A	4	T-Mobile	Rosenberger	D2WC-21	Panel	700	LTE	0	70	11.05	4	2	60.00	681.01	1117.25	127.00	0.000095	466.67	0.000020
A	4	T-Mobile	Rosenberger	D2WC-21	Panel	1900	GSM	0	63	14.85	4	4	30.00	3267.24	5360.20	127.00	0.000111	1000.00	0.000011
A	4	T-Mobile	Rosenberger	D2WC-21	Panel	1900	LTE	0	63	14.85	4	2	60.00	3267.24	5360.20	127.00	0.000111	1000.00	0.000011
A	4	T-Mobile	Rosenberger	D2WC-21	Panel	2100	LTE	0	63	14.85	4	2	60.00	3267.24	5360.20	127.00	0.000018	1000.00	0.000002
B	5	T-Mobile	Rosenberger	D2WC-21	Panel	600	LTE	120	69	10.75	4	2	30.00	635.55	1042.68	127.00	0.000465	400.00	0.000116
B	5	T-Mobile	Rosenberger	D2WC-21	Panel	600	5G	120	69	10.75	4	1	80.00	847.40	1390.24	127.00	0.000620	400.00	0.000155
B	5	T-Mobile	Rosenberger	D2WC-21	Panel	700	LTE	120	70	11.05	4	2	60.00	681.01	1117.25	127.00	0.000032	466.67	0.000007
B	5	T-Mobile	Rosenberger	D2WC-21	Panel	1900	GSM	120	63	14.85	4	4	30.00	3267.24	5360.20	127.00	0.000002	1000.00	0.000000
B	5	T-Mobile	Rosenberger	D2WC-21	Panel	1900	LTE	120	63	14.85	4	2	60.00	3267.24	5360.20	127.00	0.000002	1000.00	0.000000
B	5	T-Mobile	Rosenberger	D2WC-21	Panel	2100	LTE	120	63	14.85	4	2	60.00	3267.24	5360.20	127.00	0.000013	1000.00	0.000001
C	6	T-Mobile	Rosenberger	D2WC-21	Panel	600	LTE	240	69	10.75	4	2	30.00	635.55	1042.68	127.00	0.059233	400.00	0.014808
C	6	T-Mobile	Rosenberger	D2WC-21	Panel	600	5G	240	69	10.75	4	1	80.00	847.40	1390.24	127.00	0.078978	400.00	0.019744
C	6	T-Mobile	Rosenberger	D2WC-21	Panel	700	LTE	240	70	11.05	4	2	60.00	681.01	1117.25	127.00	0.050196	466.67	0.010756
C	6	T-Mobile	Rosenberger	D2WC-21	Panel	1900	GSM	240	63	14.85	4	4	30.00	3267.24	5360.20	127.00	0.117920	1000.00	0.011792
C	6	T-Mobile	Rosenberger	D2WC-21	Panel	1900	LTE	240	63	14.85	4	2	60.00	3267.24	5360.20	127.00	0.117920	1000.00	0.011792
C	6	T-Mobile	Rosenberger	D2WC-21	Panel	2100	LTE	240	63	14.85	4	2	60.00	3267.24	5360.20	127.00	0.102471	1000.00	0.010247

Table 2.1: Antenna Inventory & Power Data

Sector	Ant ID	Operator	Antenna Mfg	Antenna Model	Antenna Type	FREQ. (MHz)	TECH.	AZ. (°)	H B W (°)	Antenna Gain (dBd)	Antenna Aperture (ft)	#of Channels	Transmitter Power Per Channel (Watts)	Total ERP (Watts)	Total EIRP (Watts)	Height (ft)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated MPE%
A	7	Verizon	Commscope	SBNHH-1D65A	Panel	700	LTE	0	66	11.25	4.6	4	40.00	1901.60	3119.75	135.00	0.000264	466.67	0.000056
A	7	Verizon	Commscope	SBNHH-1D65A	Panel	850	5G	0	61	11.35	4.6	4	40.00	1945.90	3192.42	135.00	0.000354	566.67	0.000062
A	7	Verizon	Commscope	SBNHH-1D65A	Panel	1900	LTE	0	65	14.55	4.6	4	40.00	4065.56	6669.91	135.00	0.000023	1000.00	0.000002
A	7	Verizon	Commscope	SBNHH-1D65A	Panel	2100	LTE	0	62	15.05	4.6	4	40.00	4561.63	7483.76	135.00	0.000033	1000.00	0.000003
B	8	Verizon	Commscope	SBNHH-1D65A	Panel	700	LTE	120	66	11.25	4.6	4	40.00	1901.60	3119.75	135.00	0.001104	466.67	0.000237
B	8	Verizon	Commscope	SBNHH-1D65A	Panel	850	5G	120	61	11.35	4.6	4	40.00	1945.90	3192.42	135.00	0.000200	566.67	0.000035
B	8	Verizon	Commscope	SBNHH-1D65A	Panel	1900	LTE	120	65	14.55	4.6	4	40.00	4065.56	6669.91	135.00	0.000007	1000.00	0.000001
B	8	Verizon	Commscope	SBNHH-1D65A	Panel	2100	LTE	120	62	15.05	4.6	4	40.00	4561.63	7483.76	135.00	0.000258	1000.00	0.000026
C	9	Verizon	Commscope	SBNHH-1D65A	Panel	700	LTE	240	66	11.25	4.6	4	40.00	1901.60	3119.75	135.00	0.116832	466.67	0.025036
C	9	Verizon	Commscope	SBNHH-1D65A	Panel	850	5G	240	61	11.35	4.6	4	40.00	1945.90	3192.42	135.00	0.119063	566.67	0.021011
C	9	Verizon	Commscope	SBNHH-1D65A	Panel	1900	LTE	240	65	14.55	4.6	4	40.00	4065.56	6669.91	135.00	0.110967	1000.00	0.011097
C	9	Verizon	Commscope	SBNHH-1D65A	Panel	2100	LTE	240	62	15.05	4.6	4	40.00	4561.63	7483.76	135.00	0.130532	1000.00	0.013053
																Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	1.549399%	Calculated MPE%	0.2312%

Table 2.2: Antenna Inventory & Power Data

3. Compliance Summary

The theoretical calculations performed for this analysis yielded results that were **within** the allowable limits for general public exposure to RF Emissions.

The anticipated composite MPE value for this site assuming all carriers present is 0.2312% of the allowable FCC established general public limit sampled at the ground level.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were within the allowable 100% threshold standard per the federal government.



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Friday

12/22/23 at 12:31 PM

Signed for by: I.IRISH

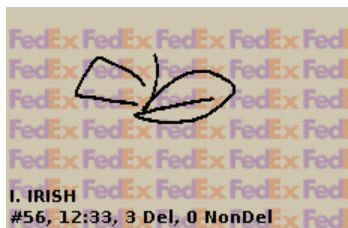
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DELIVERY STATUS

Delivered



TRACKING ID

774544328380

FROM

Smartlink LLC
Carolyn Seeley
6 Jasmine Rd
Oxford, MA US 01540
9787605577

Label Created
12/19/23 1:30 PM

WE HAVE YOUR PACKAGE

WEST BOYLSTON, MA
12/21/23 3:39 PM

ON THE WAY

SOUTH WINDSOR, CT
12/22/23 8:03 AM

OUT FOR DELIVERY

SOUTH WINDSOR, CT
12/22/23 8:22 AM



Town of Hebron
15 Gilead Street
HEBRON, CT US 06248
8602285971

Delivered
12/22/23 at 12:31 PM

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pbaker915

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Shipment facts



 Shipment overview

TRACKING NUMBER 774544328380

DELIVERED TO Shipping/Receiving

SHIPPER REFERENCE CTL05865

SHIP DATE  12/21/23

STANDARD TRANSIT  12/26/23 before 5:00 PM

ACTUAL DELIVERY 12/22/23 at 12:31 PM

 Services

SERVICE FedEx 2Day

TERMS Shipper

SPECIAL HANDLING SECTION Deliver Weekday

 Package details

WEIGHT 0.5 lbs / 0.23 kgs

TOTAL PIECES 1



PACKAGING FedEx Envelope

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Travel history



Ascending



Local Scan Time



Tuesday, 12/19/23

- 1:30 PM
Shipment information sent to FedEx

Thursday, 12/21/23

- 3:39 PM
Shipment arriving early
WEST BOYLSTON, MA
- 3:39 PM
Picked up
WEST BOYLSTON, MA

Friday, 12/22/23

- 2:25 AM
Arrived at FedEx hub
WILLINGTON, CT
- 3:28 AM
Departed FedEx hub
WILLINGTON, CT
- 8:03 AM
At local FedEx facility
SOUTH WINDSOR, CT
- 8:22 AM
On FedEx vehicle for delivery
SOUTH WINDSOR, CT
- 12:31 PM
Delivered
HEBRON, CT

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DELIVERED

Friday

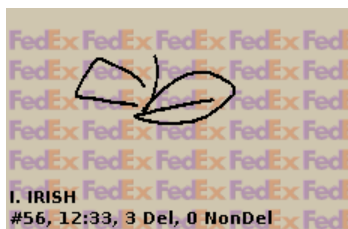
12/22/23 at 12:31 PM

Signed for by: I.IRISH

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DELIVERY STATUS

Delivered



TRACKING ID

774544403780

FROM

Smartlink LLC
Carolyn Seeley
6 Jasmine Rd
Oxford, MA US 01540
9787605577

Label Created
12/19/23 1:33 PM

WE HAVE YOUR PACKAGE

WEST BOYLSTON, MA
12/21/23 3:39 PM

ON THE WAY

SOUTH WINDSOR, CT
12/22/23 8:02 AM

OUT FOR DELIVERY

SOUTH WINDSOR, CT
12/22/23 8:23 AM

DELIVERED

Matthew Bordeaux
Town of Hebron



Delivered
12/22/23 at 12:31 PM

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Shipment overview

TRACKING NUMBER 774544403780

DELIVERED TO Shipping/Receiving

SHIPPER REFERENCE CTL05865

SHIP DATE  12/21/23

STANDARD TRANSIT  12/26/23 before 5:00 PM

ACTUAL DELIVERY 12/22/23 at 12:31 PM

Services

SERVICE FedEx 2Day

TERMS Shipper

SPECIAL HANDLING SECTION Deliver Weekday

Package details

WEIGHT 0.5 lbs / 0.23 kgs

TOTAL PIECES 1

TOTAL SHIPMENT WEIGHT 0.5 lbs / 0.23 kgs



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Travel history



Ascending



Local Scan Time



Tuesday, 12/19/23

- 1:33 PM
Shipment information sent to FedEx

Thursday, 12/21/23

- 3:39 PM
Shipment arriving early
WEST BOYLSTON, MA
- 3:39 PM
Picked up
WEST BOYLSTON, MA
- 8:10 PM
Left FedEx origin facility
WEST BOYLSTON, MA

Friday, 12/22/23

- 2:27 AM
Arrived at FedEx hub
WILLINGTON, CT
- 3:28 AM
Departed FedEx hub
WILLINGTON, CT
- 8:02 AM
At local FedEx facility
SOUTH WINDSOR, CT
- 8:23 AM
On FedEx vehicle for delivery
SOUTH WINDSOR, CT
- 12:31 PM
Delivered
HEBRON, CT

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DELIVERED

Wednesday

1/10/24 at 10:17 AM

Signed for by: J.HAWKINS

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DELIVERY STATUS

Delivered 



TRACKING ID

774705172596   

FROM

Smartlink LLC
Carolyn Seeley
6 Jasmine Rd
Oxford, MA US 01540
9787605577

Label Created
1/5/24 2:13 PM

WE HAVE YOUR PACKAGE

WEST BOYLSTON, MA
1/8/24 4:58 PM

ON THE WAY

BOCA RATON, FL
1/10/24 8:54 AM

OUT FOR DELIVERY

BOCA RATON, FL
1/10/24 8:54 AM

DELIVERED

Carla Shorter
SBA Communications Corp.
8051 Congress Avenue
BOCA RATON, FL US 33487



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Shipment facts



Shipment overview

TRACKING NUMBER 774705172596

DELIVERED TO Mailroom

SHIPPER REFERENCE CTL05865 2nd

SHIP DATE 1/8/24

STANDARD TRANSIT 1/10/24 before 10:30 AM

ACTUAL DELIVERY 1/10/24 at 10:17 AM

Services

SERVICE FedEx 2Day AM

TERMS Shipper

SPECIAL HANDLING SECTION Deliver Weekday

Package details

WEIGHT 0.5 lbs / 0.23 kgs

TOTAL PIECES 1

TOTAL SHIPMENT WEIGHT 0.5 lbs / 0.23 kgs

PACKAGING FedEx Envelope



Travel history

Ascending

Local Scan Time

Friday, 1/5/24

- 2:13 PM
Shipment information sent to FedEx

Monday, 1/8/24

- 4:58 PM
Shipment arriving On-Time
WEST BOYLSTON, MA
- 4:58 PM
Picked up
WEST BOYLSTON, MA
- 7:40 PM
Left FedEx origin facility
WEST BOYLSTON, MA
- 11:33 PM
At local FedEx facility
EAST BOSTON, MA

Tuesday, 1/9/24

- 11:19 AM
Arrived at FedEx hub
MEMPHIS, TN
- 5:50 PM
Departed FedEx hub
MEMPHIS, TN
- 8:52 PM
At destination sort facility
FORT LAUDERDALE, FL
- 11:06 PM
At local FedEx facility
FORT LAUDERDALE, FL



- 8:40 AM
At local FedEx facility
BOCA RATON, FL
- 8:54 AM
On FedEx vehicle for delivery
BOCA RATON, FL
- 8:54 AM
At local FedEx facility
BOCA RATON, FL
- ☑ 10:17 AM
Delivered
BOCA RATON, FL

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All (30)



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LANGUAGE

[United States](#)

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FedEx® Tracking



SHOPRUNNER by FedEx.

READY TO SHOP AGAIN? SAVE ON YOUR NEXT ORDER.



SHOP NOW

DELIVERED

Friday

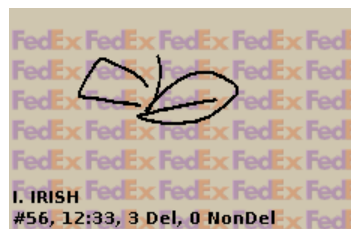
12/22/23 at 12:31 PM

Signed for by: I.IRISH

[↓ Obtain proof of delivery](#)

DELIVERY STATUS

Delivered



TRACKING ID

774540686695

FROM

Smartlink LLC
Carolyn Seeley
6 Jasmine Rd
Oxford, MA US 01540
9787605577

Label Created
12/19/23 10:52 AM

WE HAVE YOUR PACKAGE

WEST BOYLSTON, MA
12/21/23 3:39 PM

ON THE WAY

SOUTH WINDSOR, CT
12/22/23 8:03 AM

OUT FOR DELIVERY

SOUTH WINDSOR, CT
12/22/23 8:22 AM

DELIVERED

Daniel Larson
Town of Hebron



Delivered
12/22/23 at 12:31 PM

[↓ View travel history](#)

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

pbaker915

SUBMIT

✖ Your email is invalid.

[MORE OPTIONS](#)

Manage Delivery



Shipment facts



Shipment overview

TRACKING NUMBER 774540686695

DELIVERED TO Shipping/Receiving

SHIPPER REFERENCE CTL05865

SHIP DATE  12/21/23

STANDARD TRANSIT  12/26/23 before 5:00 PM

ACTUAL DELIVERY 12/22/23 at 12:31 PM

Services

SERVICE FedEx 2Day

TERMS Shipper

SPECIAL HANDLING SECTION Deliver Weekday

Package details

WEIGHT 0.5 lbs / 0.23 kgs

TOTAL PIECES 1

TOTAL SHIPMENT WEIGHT 0.5 lbs / 0.23 kgs



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Travel history



Ascending



Local Scan Time



Tuesday, 12/19/23

- 10:52 AM
Shipment information sent to FedEx

Thursday, 12/21/23

- 3:39 PM
Shipment arriving early
WEST BOYLSTON, MA
- 3:39 PM
Picked up
WEST BOYLSTON, MA

Friday, 12/22/23

- 2:25 AM
Arrived at FedEx hub
WILLINGTON, CT
- 3:28 AM
Departed FedEx hub
WILLINGTON, CT
- 8:03 AM
At local FedEx facility
SOUTH WINDSOR, CT
- 8:22 AM
On FedEx vehicle for delivery
SOUTH WINDSOR, CT
- 12:31 PM
Delivered
HEBRON, CT

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