



Filed by:

G. Scott Shepherd, Site Development Specialist II - SBA Communications
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x 3807 - gshepherd@sbsite.com

April 29, 2021

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

RE: Notice of Exempt Modification
66 Wall Street, Hebron, CT 06033
Latitude: 41.664631
Longitude: -72.361325
Sprint, now a part of T-Mobile USA #: CTHA703A_Sprint Keep

Dear Ms. Bachman:

Sprint, now a part of T-Mobile USA, hereinafter referred to as "Sprint/T-Mobile" currently maintains three (3) antennas at the 127-foot level of the existing 150-foot (Flagpole) Monopole Tower at 66 Wall St., Hebron, CT. The 150-foot tower is owned by SBA Properties, LLC. The property is owned by the Town of Hebron, CT. Sprint/T-Mobile now intends to remove the three(3) existing antennas and replace with three (3) new L700/L600/1900/2100 MHz antennas.

The new antennas support 5g services and would be installed at the 127-foot level of the tower.

Please note: Per the Connecticut Siting Council Website: CSC COVID 19 Guidelines.
In order to prevent the spread of Coronavirus and protect the health and safety of our members and staff, as of March 18, 2020, the Connecticut Siting Council shall convert to full remote operations until March 30, 2020. Please be advised that during this time period, all hard copy filing requirements will be waived in lieu of an electronic filing. Please also be advised that the March 26, 2020 regular meeting shall be held via teleconference. The Council's website is not equipped with an on-line filing fee receipt service. Therefore, filing fees and/or direct cost charges associated with matters received electronically during the above-mentioned time period will be directly invoiced at a later date.

Planned Modifications:

TOWER

Remove:

- N/A

Remove and Replace:

- (3) Commscope DHHTT65B-3XR antennas (remove) – (3) Rosenberger D2WC-21 (HEX) antennas (replace)
- (3) CCI DPO-7126Y-0-T1 Diplexers (remove) – (3) Commscope CBC426T-DS-43 Diplexers (replace)
- (3) RFS-KIT-FD9R6004/1C-DL Diplexers (remove) - (3) Commscope CBC426T-DS-43 Diplexers (replace)
- (3) 3/8 » RET Line (remove) – (3) Hybrid – 6x24 1.99 » (replace)

Install New:

- (3) Andrew Smart Bias T/ATSBT TOP-FM

Existing Equipment to Remain:

- (1) Inside 36" canister
- (12) 7/8" coax
- (1) 1/2" Coax

Entitlements:

- (1) GPS

GROUND

Install New:

- (3) 4449 B71/B85 RRUs
- (3) 4424 B25 RRUs
- (3) 4415 B66A RRUs
- (5) 2" conduit
- (2) 1" conduit
- (1) B160 Battery Cabinet
- (1) 6160 Cabinet
- (1) AAV Cabinet
- (1) H-Frame

Remain:

- (1) 20' x 8' concrete pad
- (2) T-Mobile Ice Bridge
- (3) T-Mobile 200A PPC

Remove:

- Fiber distribution box
- (2) Existing Sprint Cabinets and Equipment
- Steel Dunnage

The telecommunications facility located at the Veterans Memorial Park, 66 Wall St., Hebron, CT. was originally approved by the Town of Hebron's Planning and Zoning Commission on July 11, 2000 under Petition No. 2000-21 with the following conditions: No antenna(s) shall be located on the outside of the flagpole; 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; Lighting for the flag shall be at the minimum



level, in consultation with Town Staff, in accordance with proper flag etiquette; The flag size shall be determined in consultation with Town Staff; Any subsequent co-location shall submit application to the Planning and Zoning Commission. There were no other stipulations set forth by the Town of Hebron. Please see attached.

Please accept this letter as notification pursuant to Regulations 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. § 16.50j-73, a copy of this letter is being sent to the Town of Hebron's Town Manager, Andrew J. Tierney, Building Official & Zoning Enforcement Officer, Randy Blais,. The property is owned by the Town of Hebron. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. §16.50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modification will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modification will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

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

Sincerely,

G. Scott Shepherd
Site Development Specialist II
SBA COMMUNICATIONS CORPORATION
134 Flanders Rd., Suite 125
Westborough, MA 01581
508.251.0720 x3807 + T
508.366.2610 + F
508.868.6000 + C
gshepherd@sbsite.com

Attachments



cc: Andrew J. Tierney, Town Manager / with attachments
Town Office Building & Horton House, 15 Gilead St., (Rte 85) Hebron, CT 06248
Randy Blais, Building Official & Zoning Enforcement Officer / with attachments
Town Office Building & Horton House, 15 Gilead St., (Rte 85) Hebron, CT 06248

EXHIBIT LIST

Exhibit 1	Check Copy	To be invoiced at a later date per Covid guidelines
Exhibit 2	Notification Receipts	x
Exhibit 3	Property Card	x
Exhibit 4	Property Map	x
Exhibit 5	Original Zoning Approval	Petition #2000-21, Special Permit-Town of Hebron
Exhibit 6	Construction Drawings	Centerline 3/26/21
Exhibit 7	Structural Analysis	TES 4/13/21
Exhibit 8	EME Report	EBI Consulting 4/29/21

EXHIBIT 1

Normally, Exhibit 1 would contain a copy of the check for the filing fee.

EXHIBIT 2

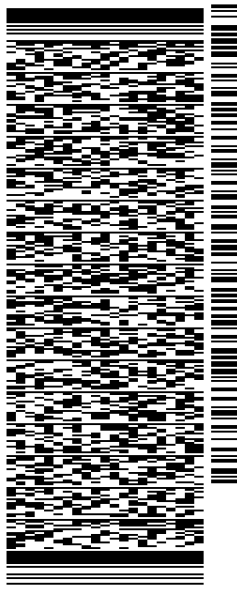
ORIGIN ID:BBFA (508) 614-0389
RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 29APR21
ACTWGT: 1.00 LB
CAD: 105843304/NET14340
BILL SENDER

TO **MELANIE A. BACHMAN EXEC. DIR**
CONNECTICUT SITING COUNCIL
TEN FRANKLIN SQUARE

NEW BRITAIN CT 06051
(508) 251-0720 X.3807 REF: 105692009-6089
INV# DEPT:

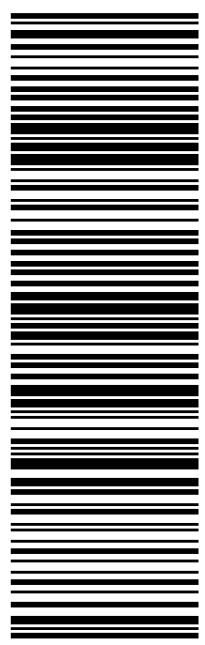
56D.J3/F9A6/FE4A



J211321033101uv

TRK# 7735 9258 4006
0201
FRI - 30 APR 10:30A
PRIORITY OVERNIGHT

EBBDLA
06051
CT:US BDL



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2. Fold the printed page along the horizontal line.
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Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID:BFBA (508) 614-0389
RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 29APR21
ACTWGT: 1.00 LB
CAD: 105843304/NET4340

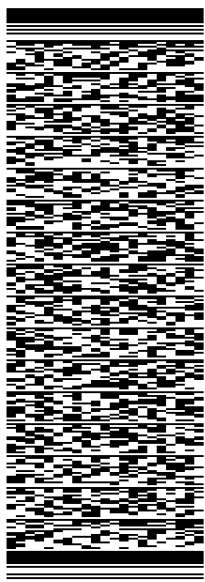
BILL SENDER

TO ANDREW J. TIERNEY, TOWN MANAGER
TOWN OFFICE BLDG & HORTON HOUSE
15 GILEAD ST

HEBRON CT 06248

(508) 251-0720 X 3807 REF: 105692009-6089
INV/ PO: DEPT:

56DJ3IF9A6/FE4A

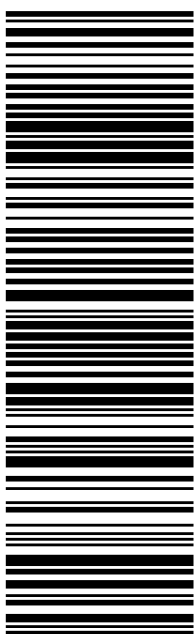


J211321033101uv

TRK# 7735 9261 7593 FRI - 30 APR 12:00P
0201 PRIORITY OVERNIGHT

EB SKKA

06248
BDL
CT:US



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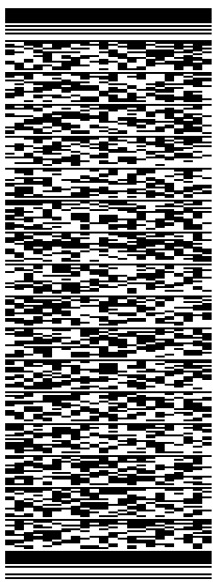
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RICK WOODS
SBA COMMUNICATIONS CORPORATION
134 FLANDERS RD
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

SHIP DATE: 29APR21
ACTWGT: 1.00 LB
CAD: 105843304/NET14340
BILL SENDER

TO **RANDY BLAIS.**
TOWN OFFICE BLDG & HORTON HOUSE
BUILDING OFFICIAL & ZONE ENF OFFIC
15 GILEAD ST
HEBRON CT 06248
(508) 251-0720 X.3807 REF: 1056-92009-6089
INV. PO. DEPT.

56DJ3IF9A6/FE4A

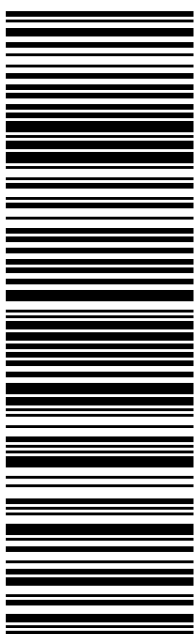


J211321033101uv

TRK# 7735 9266 9307 FRI - 30 APR 12:00P
0201 PRIORITY OVERNIGHT

EB SKKA

06248
CT:US BDL



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EXHIBIT 3

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 2016.



Information on the Property Records for the Municipality of Hebron was last updated on 4/26/2021.

Parcel Information

Location:	66 WALL ST	Property Use:	Entertainment	Primary Use:	Pavilion
Unique ID:	2347	Map Block Lot:	13-15	Acres:	15.67
490 Acres:	0.00	Zone:	R-1	Volume / Page:	0141/0673
Developers Map / Lot:		Census:	5261		

Value Information

	Appraised Value	Assessed Value
Land	668,781	468,140
Buildings	97,456	68,220
Detached Outbuildings	78,480	54,940
Total	844,717	591,300

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
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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

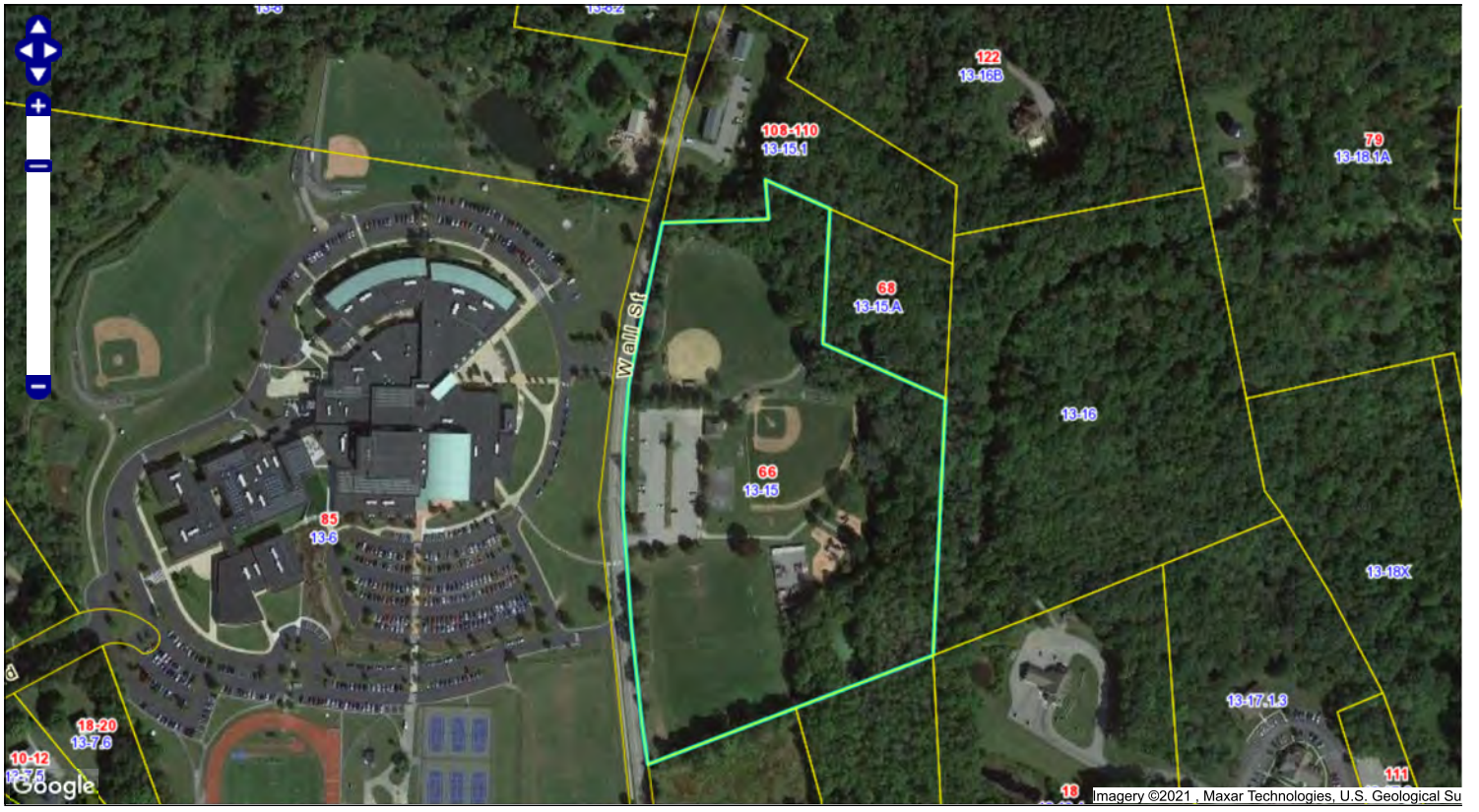
Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
HEBRON TOWN OF	0141	0673	05/01/1990		No	\$340,000

Building Permits

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
2020-0241	Generator	06/30/2020		Closed	GENERATOR ON 4 X 10 CONCRETE PAD
2020-0233	Electrical	06/18/2020		Closed	WIRING FOR AUTOMATIC GENERATOR
27232	Comm Renovations	09/18/2018		Closed	ANTENNA WORK
27149	Other	08/07/2018		Closed	NEW SMOOTH ROUND SHROUDS; REPLACE TOP PLATE & FLAG TRUCK AND BALL
27106	Electrical	06/26/2018		Closed	OUTLETS
27020	Signs	04/27/2018		Closed	NEW SCORE BOARD FOR BASEBALL FIELD
26743	Outbuilding/Yard Item	09/29/2017		Closed	DUGOUTS FOR BASEBALL FIELD & SCOREBOARD
26529	Electrical	05/03/2017		Closed	INSTALL 2 HAND DRYERS
26176	Outbuilding/Yard Item	09/16/2016		Closed	DUGOUT FOR BASEBALL FIELDS
14-254B	Electrical	04/17/2014		Closed	
14-57E	Other	02/18/2014		Closed	
14-42E	Electrical	12/10/2013		Closed	CO ISSUED 3/24/14 #14-135CA
21091	Shed	05/30/2013		Closed	dug outs - baseball field; CO ISSUED 4/7/14
12-20848	Electrical	06/20/2012		Closed	
12-20830	Electrical	06/06/2012		Closed	
11761	Mechanical	07/25/2002		Closed	

Information Published With Permission From The Assessor

EXHIBIT 4





44 CT-316



Image capture: Jul 2019 © 2021 Google

Hebron, Connecticut



Street View

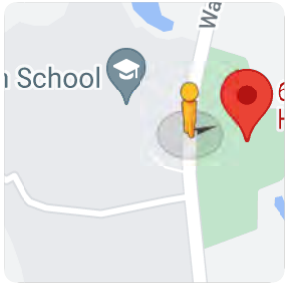


EXHIBIT 5



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.

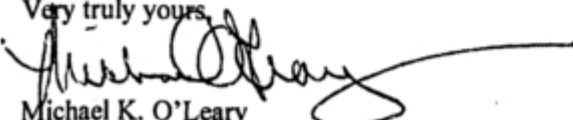
Approved, with the following conditions:

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 blueline 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>13/4015</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>CS 026881</u>	NAME & TEL. # OF PERSON RESPONSIBLE <u>Erik Pearson (860) 659-9101</u>				

SIZE OF BUILDING N/A STORIES _____ NO. OF FAMILIES _____ HEIGHT _____ DEPTH _____ FRONT _____ TOTAL FLOOR AREA (NEW) _____ SQ. FT.		DISTANCES FROM LOT LINE <u>520</u> <u>210</u> <u>140</u> <u>630</u> FRONT L. SIDE R. SIDE REAR				OTHER REQUIREMENTS ZONING PERMIT _____ PLOT PLAN _____ SEPTIC PERMIT _____ REGD. ATTACHED REGD. ATTACHED REGD. ATTACHED																												
TYPE OF WORK BEING DONE <input checked="" type="checkbox"/> ORIG. CONSTRUCTION <input type="checkbox"/> REPAIR <input type="checkbox"/> ALTERATION <input type="checkbox"/> DEMOLITION <input type="checkbox"/> ADDITION		PROPOSED USE N/A <input type="checkbox"/> NEW HOME (Single Family) <input type="checkbox"/> MULTI FAMILY # OF BEDROOMS _____ WATER SUPPLY _____ SEPTIC OR SEWER _____ <hr/> <input type="checkbox"/> ADDITION <input type="checkbox"/> GARAGE <input type="checkbox"/> DECK/PORCH <input type="checkbox"/> SHED <input type="checkbox"/> POOL <input type="checkbox"/> COMMERCIAL/PUBLIC <input type="checkbox"/> OTHER _____				APPROVALS ZONING _____ FIRE MARSHALL _____ WETLAND _____ PLANNER _____ SANITATION _____ WPCA _____																												
CONSTRUCTION VALUE ESTIMATED <u>110,000.00</u> ACTUAL _____		BUILDING PLANS REQUIRED <u>3</u> ATTACHED _____ MATERIALS LIST ON PLANS _____ ATTACHED _____				FEE COVERS <table border="1"> <thead> <tr> <th></th> <th>VALUE</th> <th>FEE</th> </tr> </thead> <tbody> <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>17.60</u></td> <td>_____</td> </tr> <tr> <td>TOTAL</td> <td>\$ 727.60</td> <td></td> </tr> </tbody> </table> CHECK # _____ DATE PAID <u>10-</u> <u>\$ 727.60</u>			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>17.60</u>	_____	TOTAL	\$ 727.60	
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<input checked="" type="checkbox"/> CONSTRUCTION	<u>80,000</u>	<u>710-</u>																																
<input type="checkbox"/> PLUMBING	_____	_____																																
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<input type="checkbox"/> SEPTIC	_____	_____																																
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<input type="checkbox"/> OTHER	<u>17.60</u>	_____																																
TOTAL	\$ 727.60																																	

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

8/4/2000
Date

Erik Pearson
Owner/Agent Signature

12/22/00 Date
[Signature] Building Official

EXHIBIT 6

PROJECT INFORMATION

TOWER OWNER: SBA PROPERTIES, LLC
8501 CONGRESS AVENUE
BOCA RATON, FL 33487
PHONE: 561-226-9523

SBA TOWER ID: CT04374-S

SBA SITE NAME: CENTRAL HEBRON

T-MOBILE SITE NAME: CTHA703A

T-MOBILE SITE NUMBER: CTHA703A

SBA SITE ADDRESS: 66 WALL ST.
HEBRON, CT

LATITUDE: 41.66463056

LONGITUDE: -72.3613533

TOWER HEIGHT: 150'-0"± AGL

RAD CENTER: 127'-0"± AGL

ZONING JURISDICTION: TOWN OF HEBRON

COUNTY: TOLLAND

DESCRIPTION OF WORK:
TELECOMMUNICATIONS FACILITY UPGRADE (SPRINT RETAIN);
FLAGPOLE



COMPLIANCE CODES:

- BUILDING CODE: IBC 2015 & CONNECTICUT STATE BUILDING CODE 2018
- ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
- CONCRETE CODE: AMERICAN CONCRETE INSTITUTE (ACI) 318
- STEEL CODE: AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 14TH EDITION
- TELECOMMUNICATIONS CODE: EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL

BASED ON INFORMATION PROVIDED BY T-MOBILE, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS AN ELIGIBLE FACILITY UNDER THE TAX RELIEF ACT OF 2012, 47 USC 1455(A), AND IS SUBJECT TO AN EXPEDITED ELIGIBLE FACILITIES REQUEST/REVIEW AND ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW).

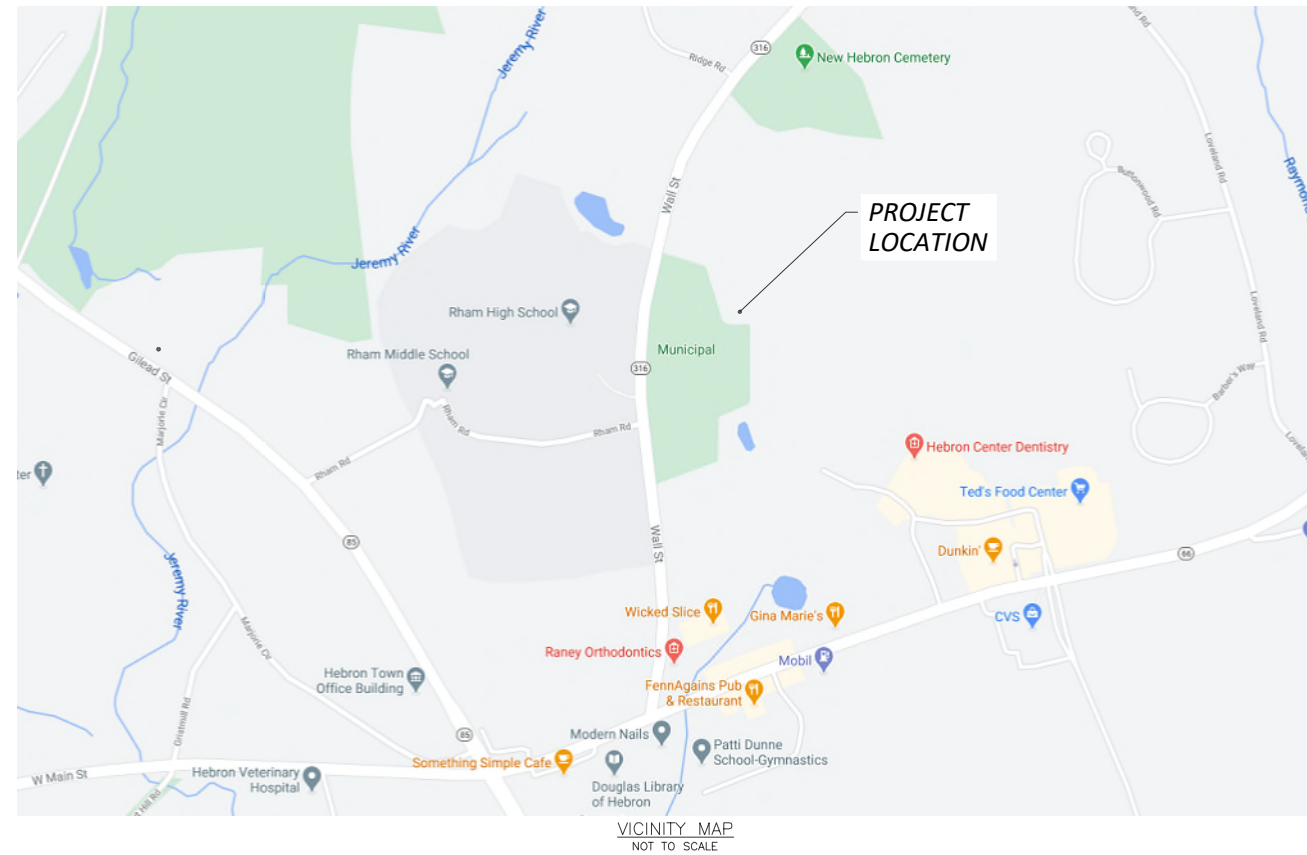
PROJECT DIRECTORY

A&E / PROJECT MANAGER:
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750 WEST CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE 781.713.4725

APPLICANT:
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15 COMMERCE WAY, SUITE B
NORTON, MA 02766
PHONE: (508) 286-2700
FAX: (508) 286-2893

SITE NAME: CTHA703A
66 WALL ST.
HEBRON, CT

SITE NUMBER: CTHA703A
SBA SITE #: CT04374-S
PROJECT: SPRINT RETAIN
CONFIGURATION: 67D998CB 6160



GENERAL NOTES:

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSE 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 T-MOBILE REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DRAWING INDEX

NO.	DESCRIPTION	REV.	DATE
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GN-1	GENERAL NOTES	1	03/26/21
A-1	COMPOUND & EQUIPMENT PLANS	1	03/26/21
A-2	ANTENNA LAYOUT & ELEVATIONS	1	03/26/21
A-3	DETAILS	1	03/26/21
SN-1	STRUCTURAL NOTES	1	03/26/21
G-1	GROUNDING DETAILS	1	03/26/21

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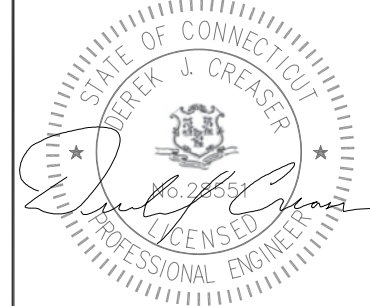


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REVISIONS		
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0	03/15/21	ISSUED FOR REVIEW
DESIGNED BY:	KT	APPROVED BY:
		DC



DATE: 03/26/21

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SITE NAME:	CTHA703A	
SITE NUMBER:	CTHA703A	
SITE ADDRESS:	66 WALL ST. HEBRON, CT	
PROJECT TYPE:	SPRINT RETAIN	
SHEET TITLE:	TITLE SHEET	
DRAWING #:	T-1	REVISION: 1

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR – CENTERLINE COMMUNICATIONS
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – T-MOBILE

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. TOUCHUP 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 T-MOBILE 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 2015 & CONNECTICUT STATE BUILDING CODE 2018
ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
LIGHTNING CODE: NFPA 70-2017

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-G, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

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.

RF NOTES

- ACTUAL LENGTHS SHALL BE DETERMINED PER SITE CONDITION BY SUBCONTRACTOR
- THE DESIGN IS BASED ON RF DATA SHEETS, SIGNED AND APPROVED.
- RADIO SIGNAL CABLE AND RACEWAY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA 70), CHAPTER 8.
- ALL SPECIFIED MATERIAL FOR EACH LOCATION (E.G. OUT DOORS-OCCUPIED, INDOORS-UNOCCUPIED, PLENUMS, RISER SHAFTS, ETC.) SHALL BE APPROVED, LISTED, OR LABELED AS REQUIRED BY THE NEC.
- RADIO SIGNAL CABLE SHALL BE SUPPORTED AT MINIMUM OF EVERY THREE (3) FEET EXCEPT INSIDE MONOPOLES OR MONOPOLES WHERE CABLE AND CONNECTOR MANUFACTURERS SUPPORT RECOMMENDATIONS SHALL BE FOLLOWED. MANUFACTURER RECOMMENDATION CABLES SUPPORT ACCESSORIES SHALL BE USED.
- THE OUTDOOR CABLE SUPPORT SYSTEM SHALL BE PROVIDED WITH AN ICE SHIELD TO SUPPORT AND PROTECT ANTENNA CABLE RUNS.
- DRIP LOOPS SHALL BE REQUIRED ON ALL OUTSIDE CABLES. CABLES SHALL BE SLOPED AWAY FROM BUILDING OR OUTDOOR BTS CABINETS TO PREVENT WATER FROM ENTERING THROUGH THE COAXIAL CABLE PORT.
- ALL FEEDER LINE AND JUMPER CONNECTORS SHALL BE 7/16 DIN CABLE CONNECTORS THAT MEET IP68 STANDARDS.
- 7/16 DIN CONNECTORS REQUIRE NO ADDITIONAL WEATHER PROOFING IN INDOOR APPLICATIONS IF INSTALLED AND TORQUED PROPERLY. IN OUTDOOR APPLICATIONS WEATHER PROOFING IS REQUIRED AND THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED.
- USING WEATHERPROOFING KIT APPROVED BY CABLE MANUFACTURER AND CONTRACTOR START TAPE APPROXIMATELY 5 INCHES FROM THE CONNECTOR, AND WRAP 2 INCHES TOWARD THE CONNECTOR, THEN REVERSE THE TAPE SO THAT THE STICKY SIDE IS UP. TAPE OVER THE CONNECTOR OR SURGE ARRESTOR UNTIL THREE (3) TO FOUR (4) INCHES BEYOND THE CONNECTOR AND REVERSE AGAIN WITH THE STICKY SIDE DOWN FOR ANOTHER INCH OR TWO. PASS THE BUTYL RUBBER AND FINISH WITH A FINAL LAYER OF TAPE.
- ANTENNAS SHALL BE PAINTED, WHEN REQUIRED, BY THE LANDLORD OR AUTHORITY OF HAVING JURISDICTION IN ACCORDANCE WITH ANTENNA MANUFACTURERS' SURFACES PREPARATION AND PAINTING REQUIREMENTS.
- CABLE SHIELDS AND TOWER CONDUITS SHALL BE GROUNDED AT THE TOP OF THE TOWER WITHIN 10 FEET OF THEIR CONNECTORS, AND AT THE BOTTOM OF THE TOWER ABOUT 6 INCHES BEFORE THEY TURN TOWARD THE FACILITY. THEY SHALL BE GROUNDED AT THE MIDPOINT OF THE TOWERS THAT ARE BETWEEN 60 FEET AND 200 FEET HIGH, AND AT INTERVALS OF 60 FEET OR LESS ON TOWERS THAT ARE HIGHER THAN 200 FEET.

ANTENNA CABLE AND SCHEDULING NOTES

- SUBCONTRACTOR SHALL VERIFY THE ACTUAL LENGTH IN THE FIELD BEFORE INSTALLATION.
- TAG AND COLOR CODE ALL MAIN CABLES AT LOCATIONS PER T-MOBILE ANTENNA CABLE MARKING STANDARD:
 - TOP OF TOWER END OF MAIN COAX
 - BOTTOM OF TOWER END OF MAIN COAX
 - DIRECTLY BEFORE AND AFTER RF EQUIPMENT
 - END OF JUMPERS AT BTS EQUIPMENT
- ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWN TILT MOUNTING BRACKETS SUPPLIED BY ANTENNA MANUFACTURER.
- PRIOR APPROVAL IS REQUIRED BEFORE PERFORMING ANY WORK ON EXISTING CELL SITE EQUIPMENT.

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DESIGNED BY:	APPROVED BY:	
KT	DC	



DATE: 03/26/21

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ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCIEVER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF	REFERENCE	TYP	TYPICAL
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED		

SITE NAME:	CTHA703A	
SITE NUMBER:	CTHA703A	
SITE ADDRESS:	66 WALL ST. HEBRON, CT	
PROJECT TYPE:	SPRINT RETAIN	
SHEET TITLE:	GENERAL NOTES	
DRAWING #:	GN-1	REVISION: 1

NOTES:

1. REFERENCE STRUCTURAL ANALYSIS BY OTHERS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

FEEDLINE SCHEDULE	FEEDLINES	LOCATION
A	EXISTING TO REMAIN: (12) 1-5/8" COAX	FROM GROUND RRU TO TOP RAD
B	PROPOSED: (3) 6x24 (1.99") HYBRID FIBER	FROM CABINET TO GROUND RRU

NOTE:
EXISTING T-MOBILE EQUIPMENT FEEDLINE INVENTORY BASED ON COLLOCATION APPLICATION AND SBA RECORD, NOT FIELD OBSERVATIONS. RFDS AND FEEDLINE LEASING ENTITLEMENTS MAY DIFFER.
SEE STRUCTURAL ANALYSIS FOR FEEDLINE INSTALLATION.

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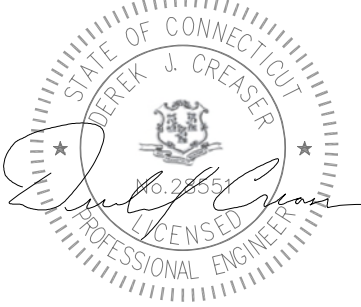
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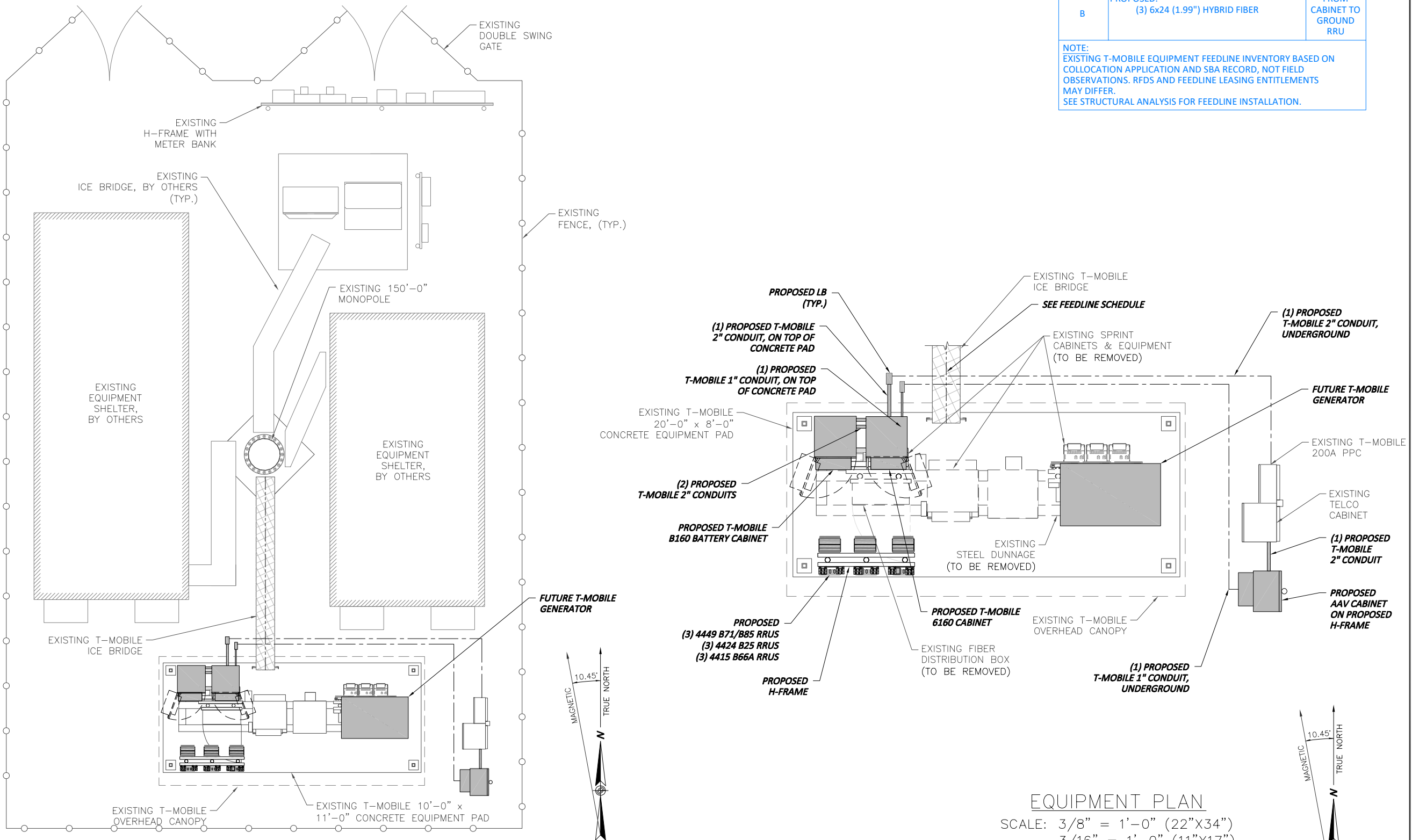
DESIGNED BY: KT APPROVED BY: DC



DATE: 03/26/21

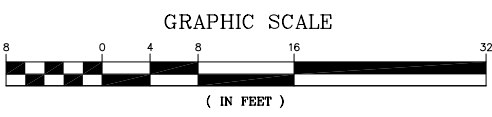
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PROJECT TYPE:	SPRINT RETAIN
SHEET TITLE:	COMPOUND & EQUIPMENT PLANS
DRAWING #:	A-1
REVISION:	1



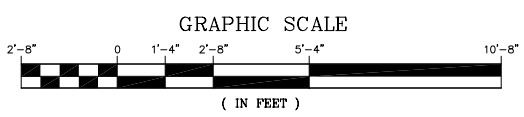
COMPOUND PLAN

SCALE: 1/4" = 1'-0" (22"x34")
1/16" = 1'-0" (11"x17")



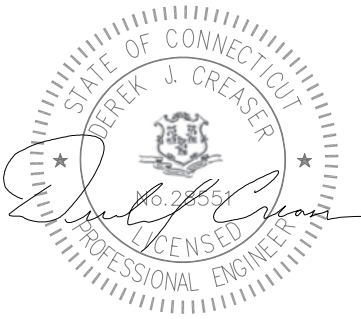
EQUIPMENT PLAN

SCALE: 3/8" = 1'-0" (22"x34")
3/16" = 1'-0" (11"x17")



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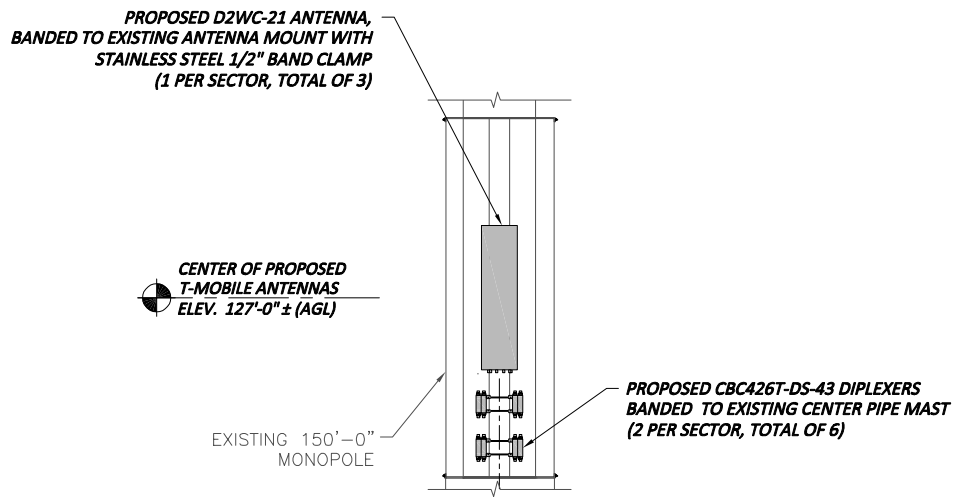


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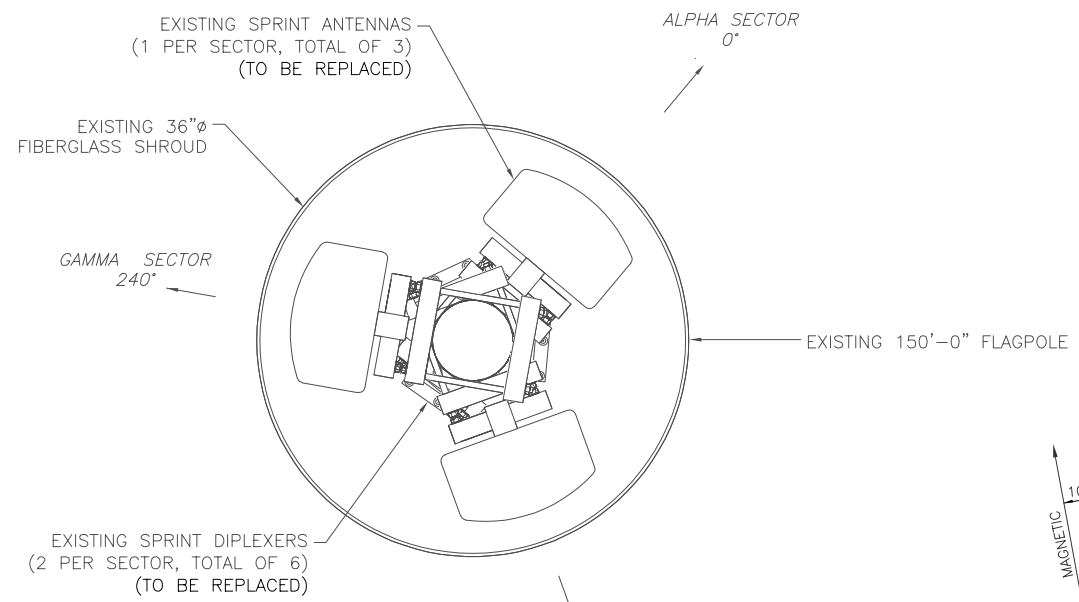
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SITE ADDRESS:	66 WALL ST. HEBRON, CT
PROJECT TYPE:	SPRINT RETAIN
SHEET TITLE:	ANTENNA LAYOUT & ELEVATIONS
DRAWING #:	A-2
REVISION:	1

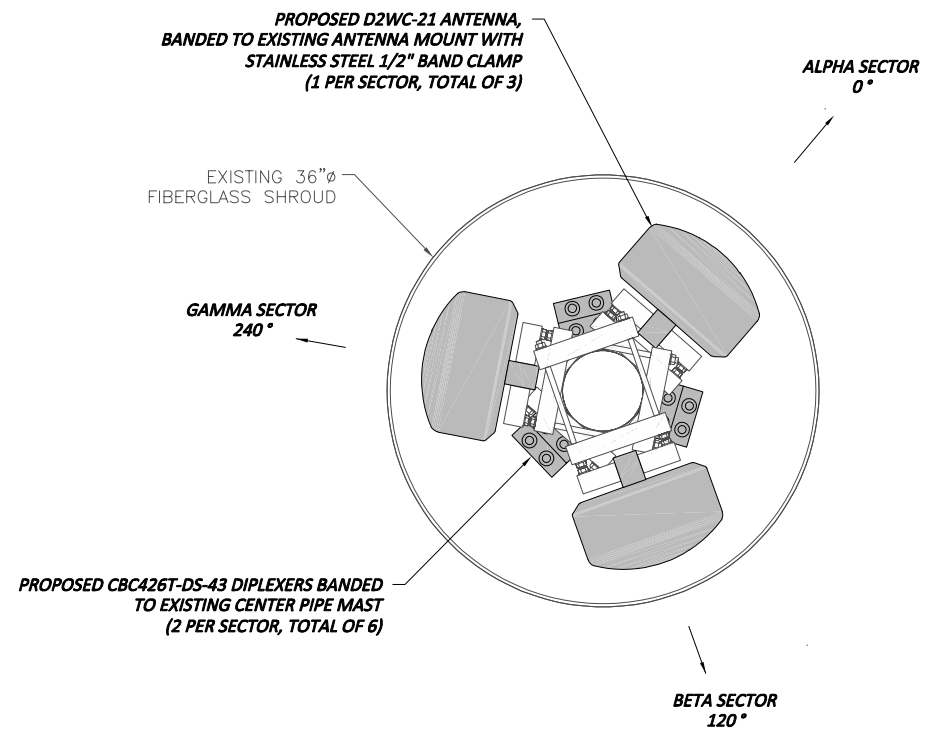
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 2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



ENLARGED ANTENNA ELEVATION
 SCALE: N.T.S



EXISTING ANTENNA CONFIGURATION
 SCALE: N.T.S



PROPOSED ANTENNA CONFIGURATION
 SCALE: N.T.S

TOP OF MONPOLE
 ELEV. 150'-0"± (AGL)

CENTER OF PROPOSED T-MOBILE ANTENNAS
 ELEV. 127'-0"± (AGL)

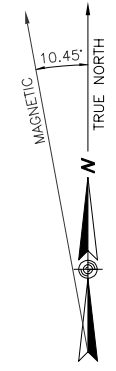
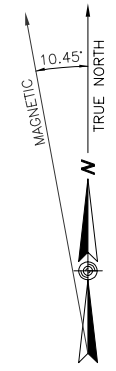
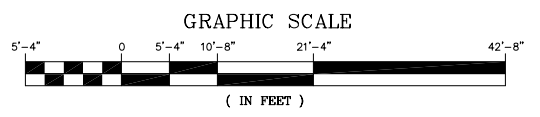
SEE FEEDLINE SCHEDULE

EXISTING 150'-0" MONOPOLE

EXISTING GRADE
 ELEV. 0'-0"± (AGL)

TOWER ELEVATION

SCALE: 3/32" = 1'-0" (22"X34")
 3/64" = 1'-0" (11"X17")



ANTENNA SCHEDULE

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
A1	PROPOSED	L700, L600, N600, L1900, G1900, L2100	D2WC-21	48x11.9x7.1	±127'	0°	(P) (2) CBC61923T-DS-42 (1) SMART BIAS T	(P)(3)(G) 4449 B71 B85 RRUS (P)(3)(G) 4424 B25 RRUS (P)(3)(G) 4415 B66A RRUS	15x13.2x10.4 16.5x13.5x9.6 14.9x13.2x5.4	(E) (12) 7/8" COAX (P) (3) 6x24 (1.99") HCS
B1	PROPOSED	L700, L600, N600, L1900, G1900, L2100	D2WC-21	48x11.9x7.1	±127'	120°	(P) (2) CBC61923T-DS-42 (1) SMART BIAS T	(P)(3)(G) 4449 B71 B85 RRUS (P)(3)(G) 4424 B25 RRUS (P)(3)(G) 4415 B66A RRUS	15x13.2x10.4 16.5x13.5x9.6 14.9x13.2x5.4	(E) (12) 7/8" COAX (P) (3) 6x24 (1.99") HCS
C1	PROPOSED	L700, L600, N600, L1900, G1900, L2100	D2WC-21	48x11.9x7.1	±127'	240°	(P) (2) CBC61923T-DS-42 (1) SMART BIAS T	(P)(3)(G) 4449 B71 B85 RRUS (P)(3)(G) 4424 B25 RRUS (P)(3)(G) 4415 B66A RRUS	15x13.2x10.4 16.5x13.5x9.6 14.9x13.2x5.4	(E) (12) 7/8" COAX (P) (3) 6x24 (1.99") HCS

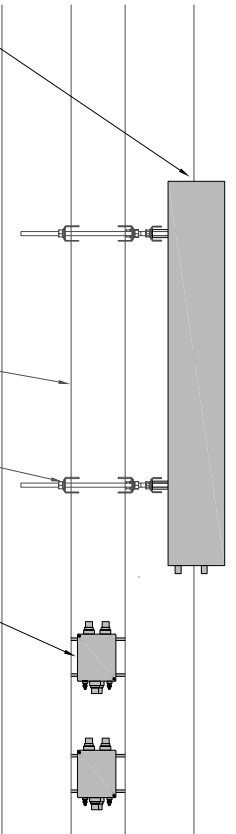
**PROPOSED T-MOBILE ANTENNA,
BANDED TO EXISTING ANTENNA
MOUNT WITH STAINLESS STEEL
1/2" BAND CLAMP
(1 PER SECTOR, TOTAL OF 3)**

EXISTING
STEALTH CANISTER

EXISTING
6-3/4"Ø
CENTER MAST PIPE

EXISTING
ANTENNA MOUNT

**PROPOSED
CBC426T-DS-43 DIPLEXER
(2 PER SECTOR, TOTAL OF 6)**



ANTENNA MOUNTING DETAIL

N.T.S.



DIPLEXER DIMENSIONS

MODEL #	CBC426T-DS-43 E14F005P31
MANUF.	COMMSCOPE
HEIGHT	5.9"
WIDTH	4.8"
DEPTH	3.4"
WEIGHT	6.0 LBS

DIPLEXER DETAIL

N.T.S.

- NOTES:**
- REFERENCE STRUCTURAL ANALYSIS BY OTHERS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
 - REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

RRU CHART				
QUANTITY	MODEL	L	W	D
3(P)	4449 B71/B85	15.0"	13.2"	10.4"
3(P)	4424 B25	16.5"	13.5"	9.6"
3(P)	4415 B66A	14.9"	13.2"	5.4"

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.



RRUS DETAIL

N.T.S.

**REFER TO THE FINAL RFDS AND
TABLE FOR THE PROPOSED
RRUS MODEL, QUANTITY, AND
DIMENSIONS**



ERICSSON RBS6160 EQUIPMENT CABINET

ENCLOSURE: ALUMINUM
DIMENSIONS (HxWxD): 63" X 25.6" X 33.5"
WEIGHT: 188LBS (EXCLUDES EQUIPMENT)
WEATHER TIGHTNESS: NEMA TYPE 3R

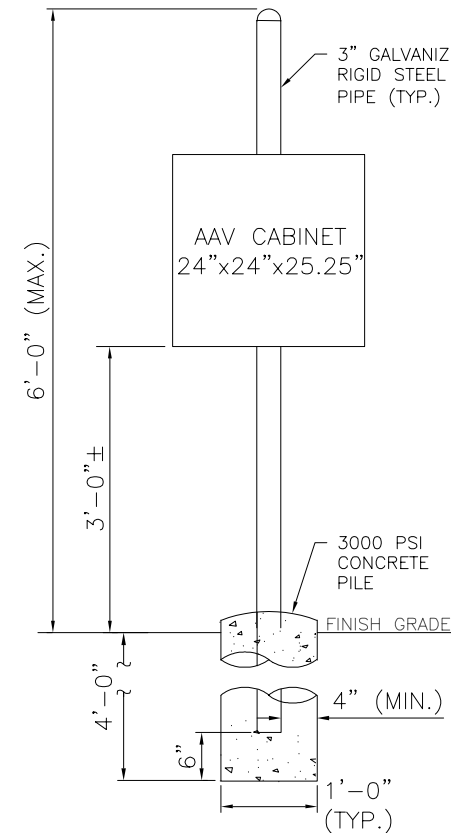


ERICSSON B160 BATTERY CABINET

ENCLOSURE: ALUMINUM
DIMENSIONS (HxWxD): 63" X 26" X 26"
WEIGHT: 188LBS (EXCLUDES EQUIPMENT)
WEATHER TIGHTNESS: NEMA TYPE 3R

EQUIPMENT CABINET DETAIL

N.T.S.



AAV CABINET DETAIL

N.T.S.



EMERSON NETXTEND COMPACT 2416 CABINET

ENCLOSURE: ALUMINUM
DIMENSIONS (HxWxD): 24" X 24" X 25.25"
WEIGHT: 64LBS (EXCLUDES EQUIPMENT)
WEATHER TIGHTNESS: NEMA TYPE 3R

N.T.S.

**T-Mobile
NORTHEAST LLC**

T-MOBILE NORTHEAST, LLC
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
PHONE: (508) 286-2700
FAX: (508) 286-2893



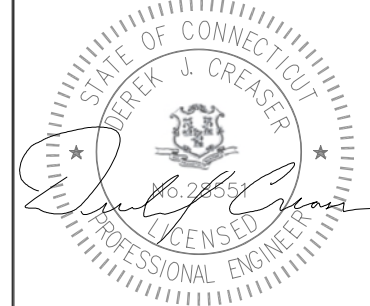
SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
PHONE: (508) 251-0720



750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
NO.	DATE	DESCRIPTION
1	03/26/21	ISSUED FOR CONSTRUCTION
0	03/15/21	ISSUED FOR REVIEW

DESIGNED BY: KT APPROVED BY: DC



DATE: 03/26/21

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SITE NAME:	CTHA703A
SITE NUMBER:	CTHA703A
SITE ADDRESS:	66 WALL ST. HEBRON, CT
PROJECT TYPE:	SPRINT RETAIN
SHEET TITLE:	DETAILS
DRAWING #:	A-3
REVISION:	1

STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

SPECIAL INSPECTION CHECKLIST	
BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
N/A	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS ³
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS ⁴
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTES:

- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
- PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
- PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
- HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
- AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

NOTES:

- ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"Ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
- VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
- CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
- EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

T-Mobile
NORTHEAST LLC

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15 COMMERCE WAY, SUITE B
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FAX: (508) 286-2893

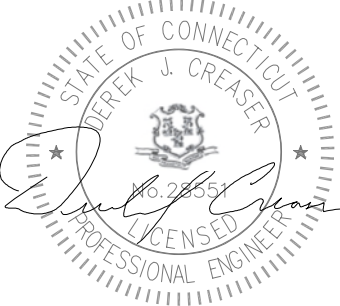


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750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
1	03/26/21	ISSUED FOR CONSTRUCTION
0	03/15/21	ISSUED FOR REVIEW
NO.	DATE	DESCRIPTION
DESIGNED BY:		APPROVED BY:
KT		DC



DATE: 03/26/21

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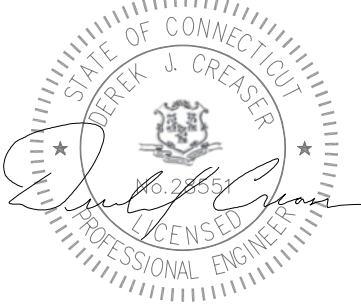
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SITE NAME:	CTHA703A
SITE NUMBER:	CTHA703A
SITE ADDRESS:	66 WALL ST. HEBRON, CT
PROJECT TYPE:	SPRINT RETAIN
SHEET TITLE:	STRUCTURAL NOTES
DRAWING #:	SN-1
REVISION:	1



REVISIONS		
NO.	DATE	DESCRIPTION
1	03/26/21	ISSUED FOR CONSTRUCTION
0	03/15/21	ISSUED FOR REVIEW

DESIGNED BY: KT
APPROVED BY: DC



DATE: 03/26/21

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SITE NAME:	CTHA703A
SITE NUMBER:	CTHA703A
SITE ADDRESS:	66 WALL ST. HEBRON, CT
PROJECT TYPE:	SPRINT RETAIN
SHEET TITLE:	GROUNDING DETAILS
DRAWING #:	G-1
REVISION:	1

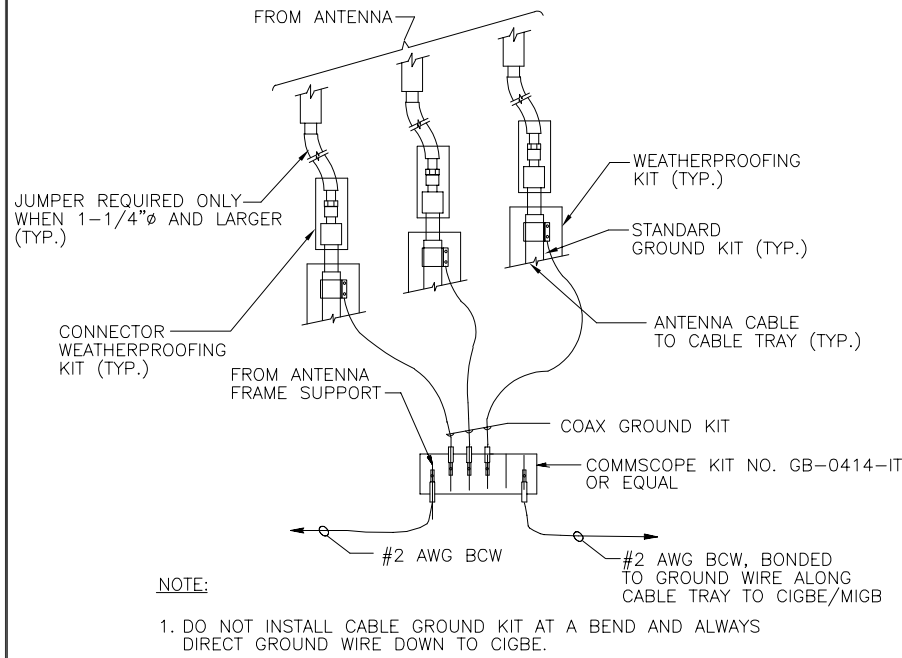
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

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

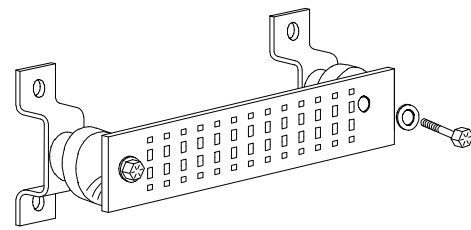
SECTION "A" - SURGE ABSORBERS

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



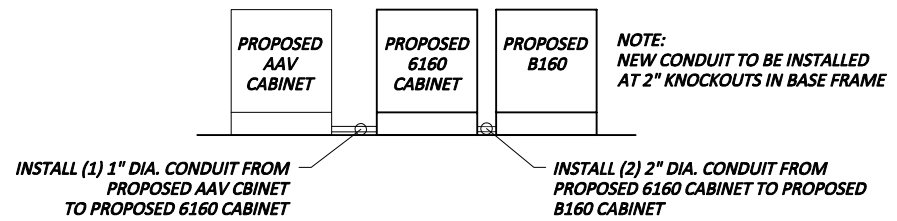
GROUNDING RISER DIAGRAM

N.T.S.



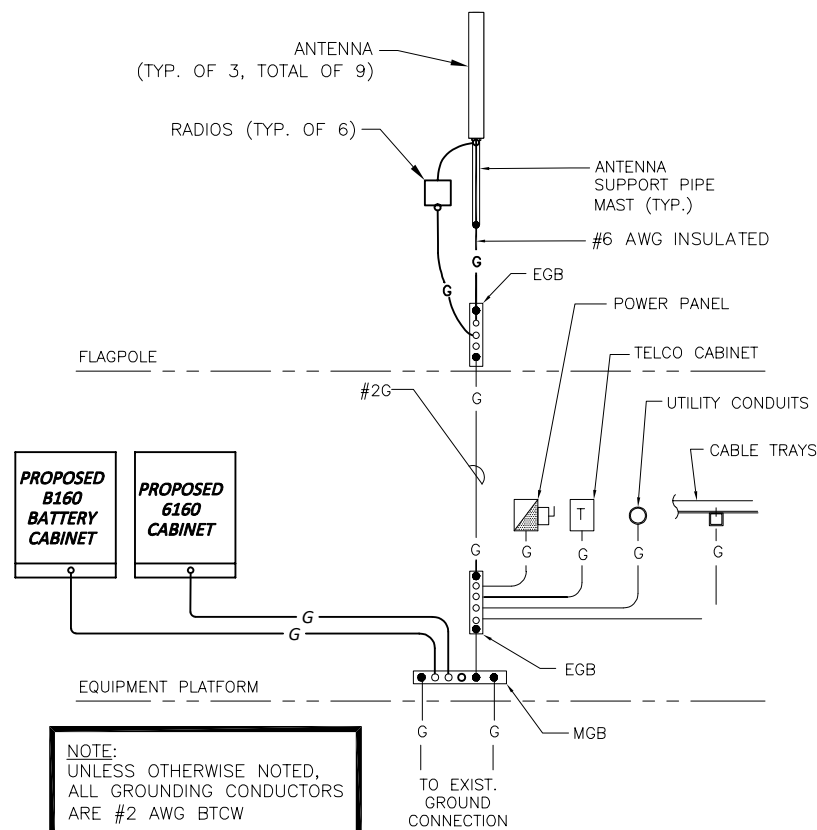
GROUND BAR DETAIL

N.T.S.



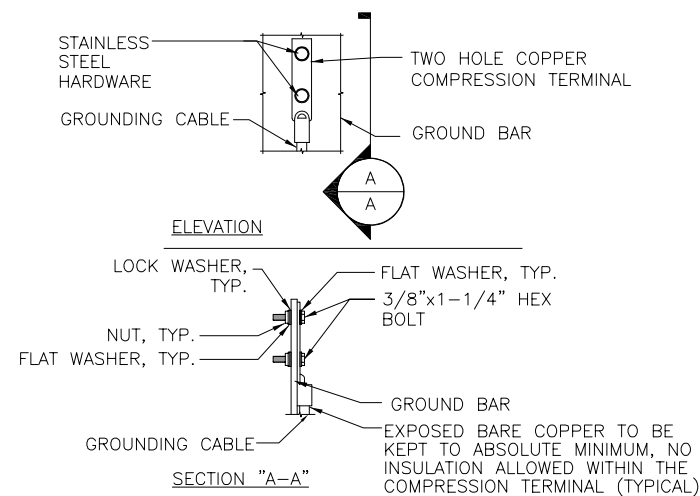
CONDUIT DETAIL

N.T.S.



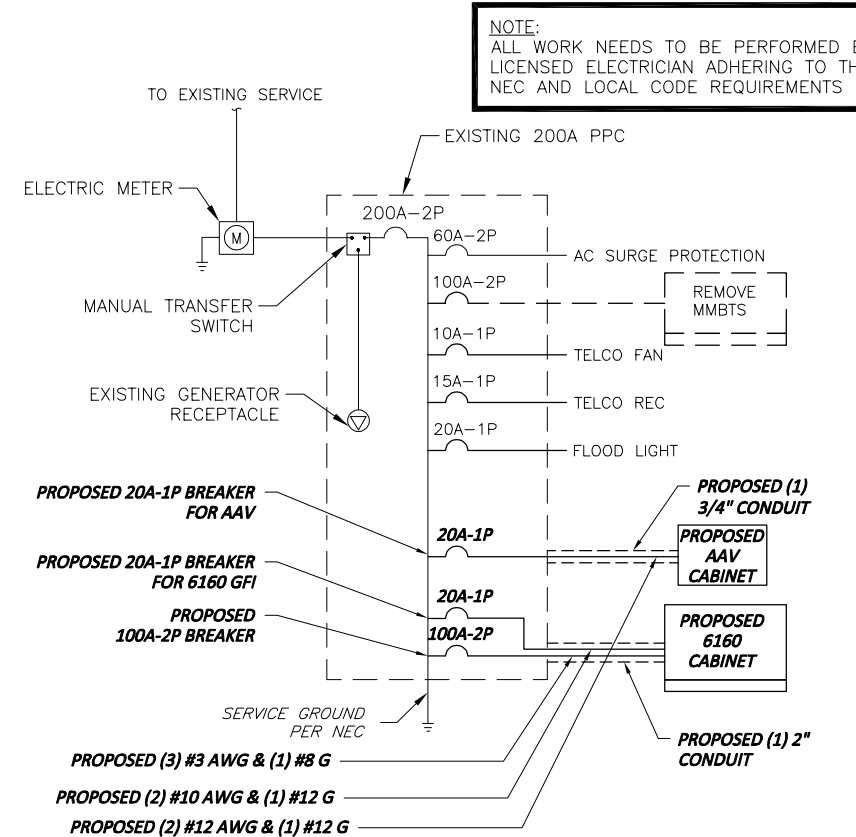
GROUNDING RISER DIAGRAM

N.T.S.



GROUND BAR CONNECTION DETAIL

N.T.S.



ONE LINE POWER DIAGRAM

N.T.S.

EXHIBIT 7



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: T-Mobile Sprint (App#: 147730, V2)

Carrier Site ID / Name: CT54SX731

Site Location: 66 Wall Street

Hebron, Connecticut

Tolland County

Latitude: 41.664631

Longitude: -72.361325

Analysis Result:

Max Structural Usage: 99.9% [Pass]

Max Foundation Usage: 98% [Pass]

Additional Usage Caused by New Mount/Mount Modification: N/A



Report Prepared By: Stacey Hesselbein

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 Dated 05/18/2018
Mount Analysis	N/A

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 130$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 101.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_S = 0.177$, $S_1 = 0.063$

This structural analysis is based upon the tower being classified as a Structure Class 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	135.0	3	Andrew - SBNHH-1D65A - Panel	Inside 36" Canister from 130ft. to 140ft.	(2) 1 5/8" Hybriflex (12) 7/8"	Verizon
2		6	RFS Celwave - FDL85002/1C-3L			
3		2	RFS Celwave - DB-T1-6Z-8AB-0Z			
-	127.0	3	Commscope - DHHTT65B-3XR - Panel	Inside 36" Canister from 120ft. to 130ft.	(3) 3/8" RET (12) 7/8"	Sprint Nextel
-		3	RFS - KIT-FD9R6004/1C-DL - Diplexer			
-		3	CCI - DPO-7126Y-0-T1 - Diplexer			
7	115.0	3	Powerwave - 7770 - Panel	Inside 36" Canister from 110ft. to 120ft	(6) 1 5/8"	AT&T
8		6	Powerwave - LGP21401 - TMA			

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
4	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 (1) 1/2"	T-Mobile Sprint
5		6	Commscope CBC426T-DS-43 Diplexers			
6		3	Andrew Smart Bias-T/ATSBT TOP-FM RET Bias T's			
9	75.0	1	GPS	Direct		

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate	Flange
Max. Usage:	95.1%	81.2%	53.5%	99.9%
Pass/Fail	Pass	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	1070.6	11.9	35.3

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.9515 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 95.11% at 112.0ft

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

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

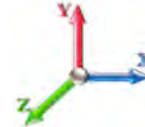
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Page: 1

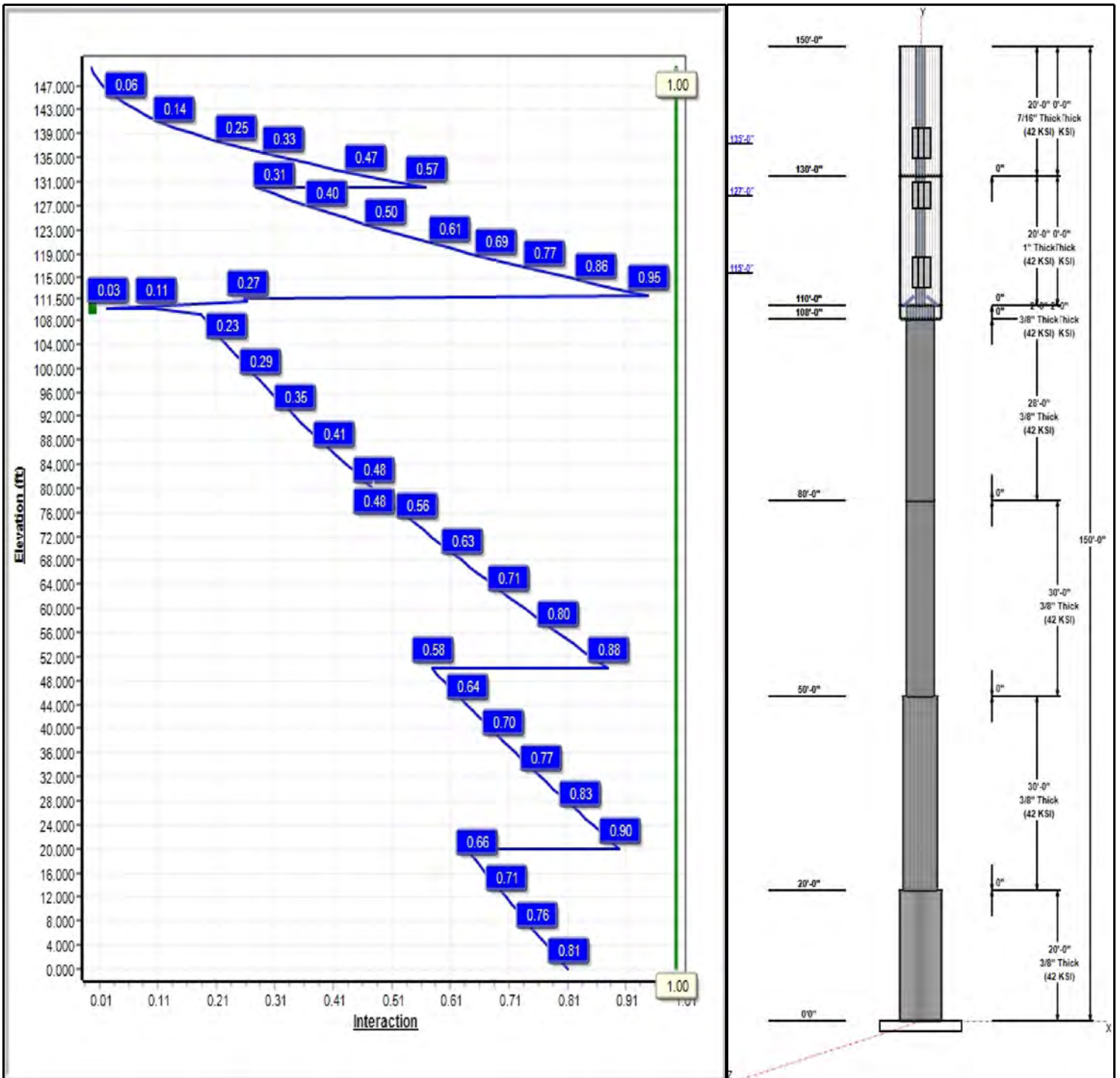
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 101 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

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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	
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-0Z	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	7770.00	AT&T
115.00	115.00	6	LGP21401	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	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	1 5/8" Coax	AT&T
0.00	75.00	Inside	1/2" Coax	T-Mobile Sprint

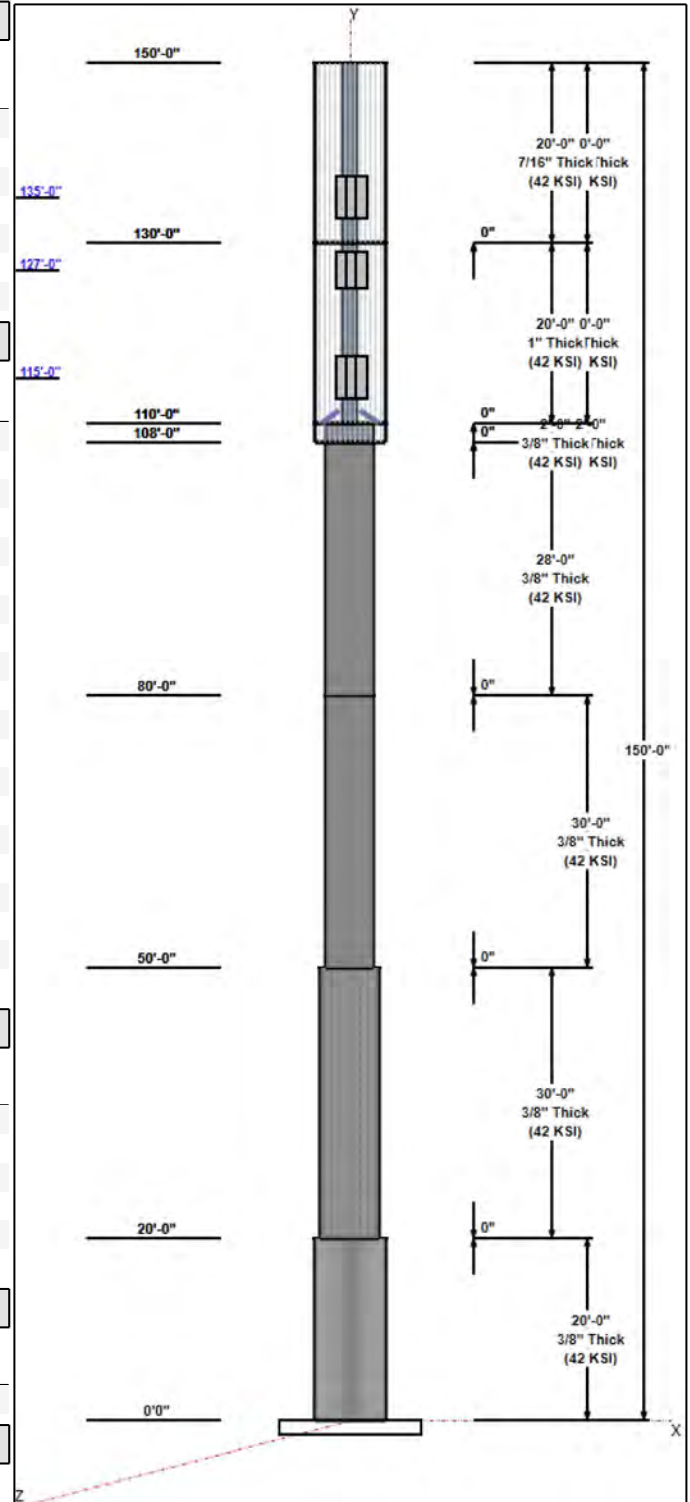
Anchor Bolts

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

Base Plate

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

Reactions



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

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Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 101 mph Wind	1070.6	11.9	22.0
0.9D + 1.6W 101 mph Wind	1054.9	11.9	16.5
1.2D + 1.0Di + 1.0Wi 50 mph Wind	455.4	4.6	35.3
1.2D + 1.0E	37.4	0.4	22.0
0.9D + 1.0E	36.8	0.4	16.5
1.0D + 1.0W 60 mph Wind	234.2	2.6	18.4

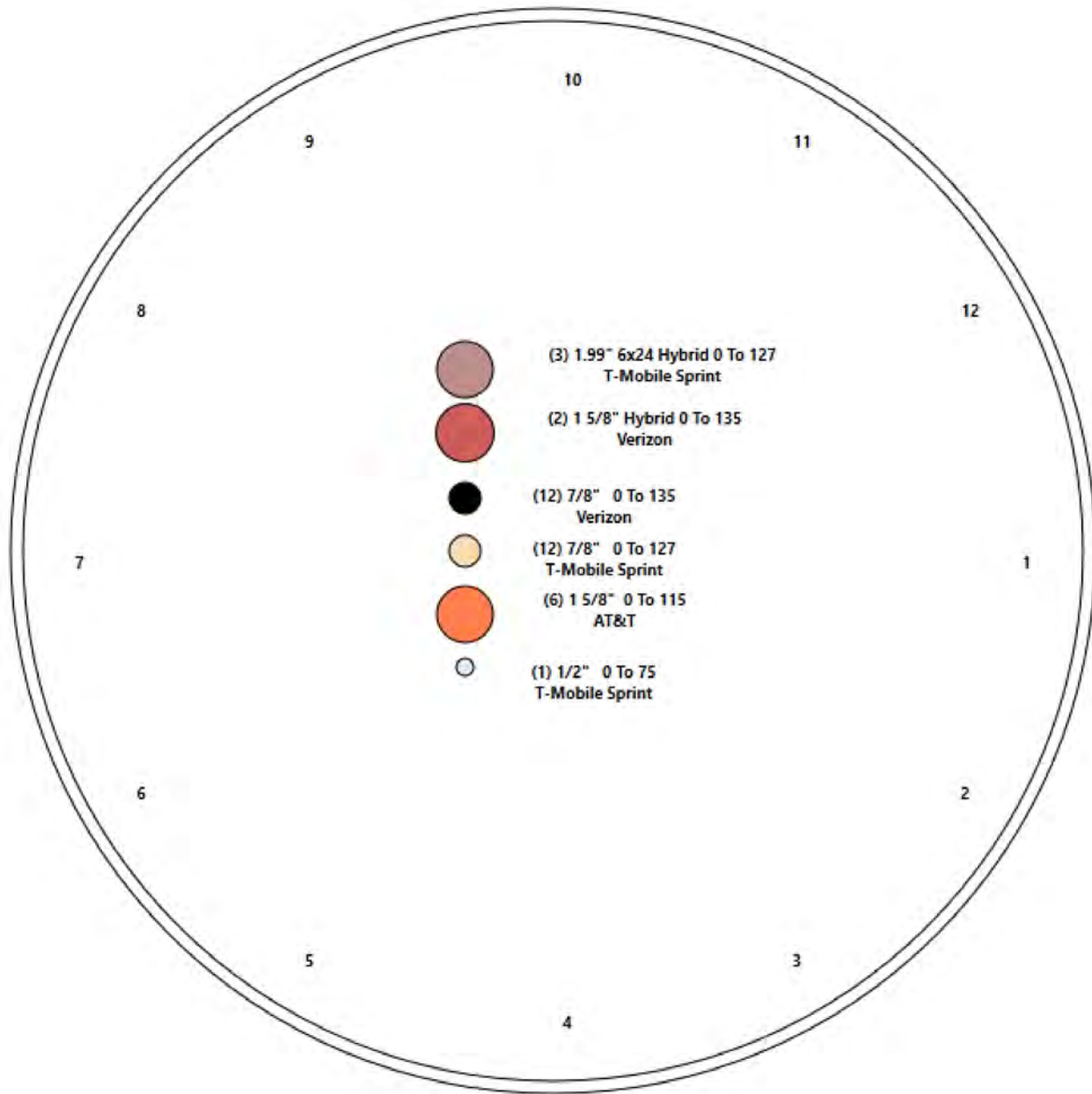
Structure: CT04374-S-SBA - Coax Line Placement

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

4/13/2021



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Shaft Properties

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	
110.0	111.5	3	PLT 5"x3/4" STFNR	36	48	0.00	5/8" Hollo Bolt	0.00	5/8" Hollo Bolt			

Load Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	5.47	1.541	1.00	0.00	0.50
2	150.00	36" Canister Weight	1	64.57	0.00	1.00	117.16	0.000	1.00	0.00	0.00
3	140.00	36" Canister Weight	1	129.14	0.00	1.00	233.59	0.000	1.00	0.00	0.00
4	140.00	Flag	1	25.00	5.56	1.00	27.31	6.074	1.00	0.00	0.00
5	135.00	SBNHH-1D65A	3	33.50	0.00	0.00	256.09	7.336	0.00	0.00	0.00
6	135.00	FDL85002/1C-3L	6	7.00	0.00	0.00	22.89	0.000	0.00	0.00	0.00
7	135.00	DB-T1-6Z-8AB-0Z	2	18.90	0.00	0.00	219.52	5.978	0.00	0.00	0.00
8	135.00	Flush Mount	1	25.00	0.00	0.00	52.63	0.000	0.00	0.00	0.00
9	130.00	36" Canister Weight	1	129.14	0.00	1.00	232.82	0.000	1.00	0.00	0.00
10	127.00	D2WC-21 (2LB+4MB) (HEX)	3	30.90	0.00	0.00	227.23	6.387	0.00	0.00	0.00
11	127.00	CBC426T-DS-43	6	7.30	0.00	0.00	29.07	0.000	0.00	0.00	0.00
12	127.00	ATSBT-TOP-FM	3	1.80	0.00	0.00	9.46	0.000	0.00	0.00	0.00
13	127.00	Flush Mount	1	25.00	0.00	0.00	52.46	0.000	0.00	0.00	0.00
14	120.00	36" Canister Weight	1	129.14	0.00	1.00	232.00	0.000	1.00	0.00	0.00
15	115.00	7770.00	3	35.00	0.00	0.00	222.59	6.910	0.00	0.00	0.00
16	115.00	LGP21401	6	14.10	0.00	0.00	46.56	0.000	0.00	0.00	0.00
17	115.00	Flush Mount	1	25.00	0.00	0.00	52.19	0.000	0.00	0.00	0.00
18	110.00	36" Canister Weight	1	77.48	0.00	1.00	138.66	0.000	1.00	0.00	0.00
19	108.00	36" Canister Weight	1	12.91	0.00	1.00	14.07	0.000	1.00	0.00	0.00
20	75.00	GPS	1	10.00	1.00	1.00	46.47	1.886	1.00	0.00	0.00
Totals:			44	1,169.18			4,381.07				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
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	(6) 1 5/8" Coax	0.00	Inside
0.00	75.00	(1) 1/2" Coax	0.00	Inside

Shaft Section Properties

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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: EIA/TIA-222-G	4/13/2021
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 + 1.6W 101 mph Wind	Iterations	43
Dead Load Factor 1.20		
Wind Load Factor 1.60		

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
2.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
3.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
4.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
5.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
6.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
7.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
8.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
9.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
10.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
11.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
12.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
13.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
14.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
15.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	171.4
16.00		1.00	0.86	21.348	23.48	281.07	0.600	0.000	1.00	3.000	1.80	67.6	0.0	171.4
17.00		1.00	0.87	21.622	23.78	282.87	0.600	0.000	1.00	3.000	1.80	68.5	0.0	171.4
18.00		1.00	0.88	21.884	24.07	284.58	0.600	0.000	1.00	3.000	1.80	69.3	0.0	171.4
19.00		1.00	0.89	22.134	24.35	286.20	0.600	0.000	1.00	3.000	1.80	70.1	0.0	171.4
20.00	Top - Section 1	1.00	0.90	22.375	24.61	287.75	0.600	0.000	1.00	3.000	1.80	70.9	0.0	171.4
21.00		1.00	0.91	22.606	24.87	241.03	0.600	0.000	1.00	2.500	1.50	59.7	0.0	142.5
22.00		1.00	0.92	22.828	25.11	242.21	0.600	0.000	1.00	2.500	1.50	60.3	0.0	142.5
23.00		1.00	0.93	23.043	25.35	243.35	0.600	0.000	1.00	2.500	1.50	60.8	0.0	142.5
24.00		1.00	0.94	23.250	25.58	244.44	0.600	0.000	1.00	2.500	1.50	61.4	0.0	142.5
25.00		1.00	0.95	23.451	25.80	245.49	0.600	0.000	1.00	2.500	1.50	61.9	0.0	142.5
26.00		1.00	0.95	23.645	26.01	246.51	0.600	0.000	1.00	2.500	1.50	62.4	0.0	142.5
27.00		1.00	0.96	23.834	26.22	247.49	0.600	0.000	1.00	2.500	1.50	62.9	0.0	142.5
28.00		1.00	0.97	24.017	26.42	248.44	0.600	0.000	1.00	2.500	1.50	63.4	0.0	142.5
29.00		1.00	0.98	24.195	26.61	249.36	0.600	0.000	1.00	2.500	1.50	63.9	0.0	142.5
30.00		1.00	0.98	24.369	26.81	250.25	0.600	0.000	1.00	2.500	1.50	64.3	0.0	142.5
31.00		1.00	0.99	24.537	26.99	251.11	0.600	0.000	1.00	2.500	1.50	64.8	0.0	142.5
32.00		1.00	1.00	24.702	27.17	251.96	0.600	0.000	1.00	2.500	1.50	65.2	0.0	142.5
33.00		1.00	1.00	24.862	27.35	252.77	0.600	0.000	1.00	2.500	1.50	65.6	0.0	142.5
34.00		1.00	1.01	25.019	27.52	253.57	0.600	0.000	1.00	2.500	1.50	66.1	0.0	142.5
35.00		1.00	1.01	25.172	27.69	254.34	0.600	0.000	1.00	2.500	1.50	66.5	0.0	142.5
36.00		1.00	1.02	25.322	27.85	255.10	0.600	0.000	1.00	2.500	1.50	66.9	0.0	142.5
37.00		1.00	1.03	25.469	28.02	255.84	0.600	0.000	1.00	2.500	1.50	67.2	0.0	142.5
38.00		1.00	1.03	25.612	28.17	256.55	0.600	0.000	1.00	2.500	1.50	67.6	0.0	142.5
39.00		1.00	1.04	25.752	28.33	257.26	0.600	0.000	1.00	2.500	1.50	68.0	0.0	142.5
40.00		1.00	1.04	25.890	28.48	257.94	0.600	0.000	1.00	2.500	1.50	68.3	0.0	142.5
41.00		1.00	1.05	26.025	28.63	258.61	0.600	0.000	1.00	2.500	1.50	68.7	0.0	142.5
42.00		1.00	1.05	26.157	28.77	259.27	0.600	0.000	1.00	2.500	1.50	69.1	0.0	142.5
43.00		1.00	1.06	26.287	28.92	259.91	0.600	0.000	1.00	2.500	1.50	69.4	0.0	142.5
44.00		1.00	1.06	26.415	29.06	260.54	0.600	0.000	1.00	2.500	1.50	69.7	0.0	142.5
45.00		1.00	1.07	26.540	29.19	261.16	0.600	0.000	1.00	2.500	1.50	70.1	0.0	142.5
46.00		1.00	1.07	26.663	29.33	261.77	0.600	0.000	1.00	2.500	1.50	70.4	0.0	142.5

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	26.784	29.46	262.36	0.600	0.000	1.00	2.500	1.50	70.7	0.0	142.5	
48.00	1.00	1.08	26.903	29.59	262.94	0.600	0.000	1.00	2.500	1.50	71.0	0.0	142.5	
49.00	1.00	1.09	27.020	29.72	263.51	0.600	0.000	1.00	2.500	1.50	71.3	0.0	142.5	
50.00	Top - Section 2	1.00	1.09	27.135	29.85	264.07	0.600	0.000	1.00	2.500	1.50	71.6	0.0	142.5
51.00	1.00	1.10	27.249	29.97	211.70	0.600	0.000	1.00	2.000	1.20	57.5	0.0	113.6	
52.00	1.00	1.10	27.360	30.10	212.13	0.600	0.000	1.00	2.000	1.20	57.8	0.0	113.6	
53.00	1.00	1.11	27.470	30.22	212.56	0.600	0.000	1.00	2.000	1.20	58.0	0.0	113.6	
54.00	1.00	1.11	27.579	30.34	212.98	0.600	0.000	1.00	2.000	1.20	58.2	0.0	113.6	
55.00	1.00	1.12	27.685	30.45	213.39	0.600	0.000	1.00	2.000	1.20	58.5	0.0	113.6	
56.00	1.00	1.12	27.790	30.57	213.79	0.600	0.000	1.00	2.000	1.20	58.7	0.0	113.6	
57.00	1.00	1.12	27.894	30.68	214.19	0.600	0.000	1.00	2.000	1.20	58.9	0.0	113.6	
58.00	1.00	1.13	27.997	30.80	214.59	0.600	0.000	1.00	2.000	1.20	59.1	0.0	113.6	
59.00	1.00	1.13	28.097	30.91	214.97	0.600	0.000	1.00	2.000	1.20	59.3	0.0	113.6	
60.00	1.00	1.14	28.197	31.02	215.35	0.600	0.000	1.00	2.000	1.20	59.6	0.0	113.6	
61.00	1.00	1.14	28.295	31.12	215.73	0.600	0.000	1.00	2.000	1.20	59.8	0.0	113.6	
62.00	1.00	1.14	28.392	31.23	216.10	0.600	0.000	1.00	2.000	1.20	60.0	0.0	113.6	
63.00	1.00	1.15	28.488	31.34	216.46	0.600	0.000	1.00	2.000	1.20	60.2	0.0	113.6	
64.00	1.00	1.15	28.583	31.44	216.82	0.600	0.000	1.00	2.000	1.20	60.4	0.0	113.6	
65.00	1.00	1.16	28.676	31.54	217.17	0.600	0.000	1.00	2.000	1.20	60.6	0.0	113.6	
66.00	1.00	1.16	28.769	31.65	217.52	0.600	0.000	1.00	2.000	1.20	60.8	0.0	113.6	
67.00	1.00	1.16	28.860	31.75	217.87	0.600	0.000	1.00	2.000	1.20	61.0	0.0	113.6	
68.00	1.00	1.17	28.950	31.84	218.21	0.600	0.000	1.00	2.000	1.20	61.1	0.0	113.6	
69.00	1.00	1.17	29.039	31.94	218.54	0.600	0.000	1.00	2.000	1.20	61.3	0.0	113.6	
70.00	1.00	1.17	29.127	32.04	218.88	0.600	0.000	1.00	2.000	1.20	61.5	0.0	113.6	
71.00	1.00	1.18	29.214	32.14	219.20	0.600	0.000	1.00	2.000	1.20	61.7	0.0	113.6	
72.00	1.00	1.18	29.300	32.23	219.53	0.600	0.000	1.00	2.000	1.20	61.9	0.0	113.6	
73.00	1.00	1.18	29.386	32.32	219.84	0.600	0.000	1.00	2.000	1.20	62.1	0.0	113.6	
74.00	1.00	1.19	29.470	32.42	220.16	0.600	0.000	1.00	2.000	1.20	62.2	0.0	113.6	
75.00	Appurtenance(s)	1.00	1.19	29.553	32.51	220.47	0.600	0.000	1.00	2.000	1.20	62.4	0.0	113.6
76.00	1.00	1.19	29.636	32.60	220.78	0.600	0.000	1.00	2.000	1.20	62.6	0.0	113.6	
77.00	1.00	1.20	29.718	32.69	221.08	0.600	0.000	1.00	2.000	1.20	62.8	0.0	113.6	
78.00	1.00	1.20	29.798	32.78	221.38	0.600	0.000	1.00	2.000	1.20	62.9	0.0	113.6	
79.00	1.00	1.20	29.878	32.87	221.68	0.600	0.000	1.00	2.000	1.20	63.1	0.0	113.6	
80.00	Top - Section 3	1.00	1.21	29.958	32.95	221.97	0.600	0.000	1.00	2.000	1.20	63.3	0.0	113.6
81.00	1.00	1.21	30.036	33.04	222.26	0.600	0.000	1.00	2.000	1.20	63.4	0.0	113.6	
82.00	1.00	1.21	30.114	33.13	222.55	0.600	0.000	1.00	2.000	1.20	63.6	0.0	113.6	
83.00	1.00	1.22	30.191	33.21	222.84	0.600	0.000	1.00	2.000	1.20	63.8	0.0	113.6	
84.00	1.00	1.22	30.267	33.29	223.12	0.600	0.000	1.00	2.000	1.20	63.9	0.0	113.6	
85.00	1.00	1.22	30.342	33.38	223.39	0.600	0.000	1.00	2.000	1.20	64.1	0.0	113.6	
86.00	1.00	1.23	30.417	33.46	223.67	0.600	0.000	1.00	2.000	1.20	64.2	0.0	113.6	
87.00	1.00	1.23	30.491	33.54	223.94	0.600	0.000	1.00	2.000	1.20	64.4	0.0	113.6	
88.00	1.00	1.23	30.565	33.62	224.21	0.600	0.000	1.00	2.000	1.20	64.6	0.0	113.6	
89.00	1.00	1.23	30.638	33.70	224.48	0.600	0.000	1.00	2.000	1.20	64.7	0.0	113.6	
90.00	1.00	1.24	30.710	33.78	224.74	0.600	0.000	1.00	2.000	1.20	64.9	0.0	113.6	
91.00	1.00	1.24	30.781	33.86	225.00	0.600	0.000	1.00	2.000	1.20	65.0	0.0	113.6	
92.00	1.00	1.24	30.852	33.94	225.26	0.600	0.000	1.00	2.000	1.20	65.2	0.0	113.6	
93.00	1.00	1.25	30.922	34.01	225.52	0.600	0.000	1.00	2.000	1.20	65.3	0.0	113.6	
94.00	1.00	1.25	30.992	34.09	225.77	0.600	0.000	1.00	2.000	1.20	65.5	0.0	113.6	
95.00	1.00	1.25	31.061	34.17	226.03	0.600	0.000	1.00	2.000	1.20	65.6	0.0	113.6	
96.00	1.00	1.25	31.130	34.24	226.28	0.600	0.000	1.00	2.000	1.20	65.7	0.0	113.6	
97.00	1.00	1.26	31.198	34.32	226.52	0.600	0.000	1.00	2.000	1.20	65.9	0.0	113.6	
98.00	1.00	1.26	31.265	34.39	226.77	0.600	0.000	1.00	2.000	1.20	66.0	0.0	113.6	
99.00	1.00	1.26	31.332	34.47	227.01	0.600	0.000	1.00	2.000	1.20	66.2	0.0	113.6	
100.00	1.00	1.27	31.399	34.54	227.25	0.600	0.000	1.00	2.000	1.20	66.3	0.0	113.6	
101.00	1.00	1.27	31.464	34.61	227.49	0.600	0.000	1.00	2.000	1.20	66.5	0.0	113.6	
102.00	1.00	1.27	31.530	34.68	227.72	0.600	0.000	1.00	2.000	1.20	66.6	0.0	113.6	
103.00	1.00	1.27	31.595	34.75	227.96	0.600	0.000	1.00	2.000	1.20	66.7	0.0	113.6	

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	31.659	34.82	228.19	0.600	0.000	1.00	2.000	1.20	66.9	0.0	113.6
105.00	1.00	1.28	31.723	34.89	228.42	0.600	0.000	1.00	2.000	1.20	67.0	0.0	113.6
106.00	1.00	1.28	31.786	34.96	228.65	0.600	0.000	1.00	2.000	1.20	67.1	0.0	113.6
107.00	1.00	1.28	31.849	35.03	228.87	0.600	0.000	1.00	2.000	1.20	67.3	0.0	113.6
108.00 Top - Section 4	1.00	1.29	31.911	35.10	229.10	0.600	0.000	1.00	2.000	1.20	67.4	0.0	113.6
109.00	1.00	1.29	31.973	35.17	343.98	0.600	0.000	1.00	3.000	1.80	101.3	0.0	125.2
110.00 Top - Section 5 RB1	1.00	1.29	32.035	35.24	344.31	0.600	0.000	1.00	3.000	1.80	101.5	0.0	125.2
111.00	1.00	1.29	32.096	35.31	344.64	0.600	0.000	1.00	3.000	1.80	101.7	0.0	85.3
111.50 RT1	1.00	1.29	32.126	35.34	344.80	0.600	0.000	0.50	1.500	0.90	50.9	0.0	42.6
112.00	1.00	1.30	32.157	35.37	344.96	0.600	0.000	0.50	1.500	0.90	50.9	0.0	42.6
113.00	1.00	1.30	32.217	35.44	345.29	0.600	0.000	1.00	3.000	1.80	102.1	0.0	85.3
114.00	1.00	1.30	32.277	35.50	345.61	0.600	0.000	1.00	3.000	1.80	102.3	0.0	85.3
115.00 Appurtenance(s)	1.00	1.30	32.336	35.57	345.93	0.600	0.000	1.00	3.000	1.80	102.4	0.0	85.3
116.00	1.00	1.31	32.395	35.63	346.24	0.600	0.000	1.00	3.000	1.80	102.6	0.0	85.3
117.00	1.00	1.31	32.454	35.70	346.55	0.600	0.000	1.00	3.000	1.80	102.8	0.0	85.3
118.00	1.00	1.31	32.512	35.76	346.87	0.600	0.000	1.00	3.000	1.80	103.0	0.0	85.3
119.00	1.00	1.31	32.570	35.83	347.17	0.600	0.000	1.00	3.000	1.80	103.2	0.0	85.3
120.00 Appurtenance(s)	1.00	1.32	32.627	35.89	347.48	0.600	0.000	1.00	3.000	1.80	103.4	0.0	85.3
121.00	1.00	1.32	32.684	35.95	347.78	0.600	0.000	1.00	3.000	1.80	103.5	0.0	85.3
122.00	1.00	1.32	32.741	36.01	348.08	0.600	0.000	1.00	3.000	1.80	103.7	0.0	85.3
123.00	1.00	1.32	32.797	36.08	348.38	0.600	0.000	1.00	3.000	1.80	103.9	0.0	85.3
124.00	1.00	1.32	32.853	36.14	348.68	0.600	0.000	1.00	3.000	1.80	104.1	0.0	85.3
125.00	1.00	1.33	32.909	36.20	348.98	0.600	0.000	1.00	3.000	1.80	104.3	0.0	85.3
126.00	1.00	1.33	32.964	36.26	349.27	0.600	0.000	1.00	3.000	1.80	104.4	0.0	85.3
127.00 Appurtenance(s)	1.00	1.33	33.019	36.32	349.56	0.600	0.000	1.00	3.000	1.80	104.6	0.0	85.3
128.00	1.00	1.33	33.073	36.38	349.85	0.600	0.000	1.00	3.000	1.80	104.8	0.0	85.3
129.00	1.00	1.34	33.128	36.44	350.13	0.600	0.000	1.00	3.000	1.80	104.9	0.0	85.3
130.00 Top - Section 6	1.00	1.34	33.182	36.50	350.42	0.600	0.000	1.00	3.000	1.80	105.1	0.0	85.3
131.00	1.00	1.34	33.235	36.56	350.70	0.600	0.000	1.00	3.000	1.80	105.3	0.0	45.8
132.00	1.00	1.34	33.288	36.62	350.98	0.600	0.000	1.00	3.000	1.80	105.5	0.0	45.8
133.00	1.00	1.34	33.341	36.68	351.26	0.600	0.000	1.00	3.000	1.80	105.6	0.0	45.8
134.00	1.00	1.35	33.394	36.73	351.54	0.600	0.000	1.00	3.000	1.80	105.8	0.0	45.8
135.00 Appurtenance(s)	1.00	1.35	33.446	36.79	351.81	0.600	0.000	1.00	3.000	1.80	106.0	0.0	45.8
136.00	1.00	1.35	33.498	36.85	352.09	0.600	0.000	1.00	3.000	1.80	106.1	0.0	45.8
137.00	1.00	1.35	33.550	36.90	352.36	0.600	0.000	1.00	3.000	1.80	106.3	0.0	45.8
138.00	1.00	1.35	33.601	36.96	352.63	0.600	0.000	1.00	3.000	1.80	106.4	0.0	45.8
139.00	1.00	1.36	33.653	37.02	352.90	0.600	0.000	1.00	3.000	1.80	106.6	0.0	45.8
140.00 Appurtenance(s)	1.00	1.36	33.703	37.07	353.16	0.600	0.000	1.00	3.000	1.80	106.8	0.0	45.8
141.00	1.00	1.36	33.754	37.13	353.43	0.600	0.000	1.00	3.000	1.80	106.9	0.0	45.8
142.00	1.00	1.36	33.804	37.18	353.69	0.600	0.000	1.00	3.000	1.80	107.1	0.0	45.8
143.00	1.00	1.36	33.854	37.24	353.95	0.600	0.000	1.00	3.000	1.80	107.2	0.0	45.8
144.00	1.00	1.37	33.904	37.29	354.21	0.600	0.000	1.00	3.000	1.80	107.4	0.0	45.8
145.00	1.00	1.37	33.953	37.35	354.47	0.600	0.000	1.00	3.000	1.80	107.6	0.0	45.8
146.00	1.00	1.37	34.002	37.40	354.73	0.600	0.000	1.00	3.000	1.80	107.7	0.0	45.8
147.00	1.00	1.37	34.051	37.46	354.98	0.600	0.000	1.00	3.000	1.80	107.9	0.0	45.8
148.00	1.00	1.37	34.100	37.51	355.24	0.600	0.000	1.00	3.000	1.80	108.0	0.0	45.8
149.00	1.00	1.38	34.148	37.56	355.49	0.600	0.000	1.00	3.000	1.80	108.2	0.0	45.8
150.00 Appurtenance(s)	1.00	1.38	34.196	37.62	355.74	0.600	0.000	1.00	3.000	1.80	108.3	0.0	45.8
Totals:								150.00			11,396.8		17,167.4

Discrete Appurtenance Forces

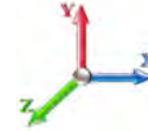
Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



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	Truck Ball	1	34.220	37.642	1.00	1.00	1.41	6.00	0.000	0.500	84.92	0.00	42.46
2	150.00	36" Canister Weight	1	34.196	37.616	1.00	1.00	0.00	77.48	0.000	0.000	0.00	0.00	0.00
3	140.00	Flag	1	33.703	37.074	1.00	1.00	5.56	30.00	0.000	0.000	329.81	0.00	0.00
4	140.00	36" Canister Weight	1	33.703	37.074	1.00	1.00	0.00	154.97	0.000	0.000	0.00	0.00	0.00
5	135.00	Flush Mount	1	33.446	36.791	0.00	1.00	0.00	30.00	0.000	0.000	0.00	0.00	0.00
6	135.00	DB-T1-6Z-8AB-0Z	2	33.446	36.791	0.00	1.00	0.00	45.36	0.000	0.000	0.00	0.00	0.00
7	135.00	FDL85002/1C-3L	6	33.446	36.791	0.00	1.00	0.00	50.40	0.000	0.000	0.00	0.00	0.00
8	135.00	SBNHH-1D65A	3	33.446	36.791	0.00	1.00	0.00	120.60	0.000	0.000	0.00	0.00	0.00
9	130.00	36" Canister Weight	1	33.182	36.500	1.00	1.00	0.00	154.97	0.000	0.000	0.00	0.00	0.00
10	127.00	Flush Mount	1	33.019	36.321	0.00	1.00	0.00	30.00	0.000	0.000	0.00	0.00	0.00
11	127.00	ATSBT-TOP-FM	3	33.019	36.321	0.00	1.00	0.00	6.48	0.000	0.000	0.00	0.00	0.00
12	127.00	CBC426T-DS-43	6	33.019	36.321	0.00	1.00	0.00	52.56	0.000	0.000	0.00	0.00	0.00
13	127.00	D2WC-21 (2LB+4MB)	3	33.019	36.321	0.00	1.00	0.00	111.24	0.000	0.000	0.00	0.00	0.00
14	120.00	36" Canister Weight	1	32.627	35.890	1.00	1.00	0.00	154.97	0.000	0.000	0.00	0.00	0.00
15	115.00	Flush Mount	1	32.336	35.570	0.00	1.00	0.00	30.00	0.000	0.000	0.00	0.00	0.00
16	115.00	LGP21401	6	32.336	35.570	0.00	1.00	0.00	101.52	0.000	0.000	0.00	0.00	0.00
17	115.00	7770.00	3	32.336	35.570	0.00	1.00	0.00	126.00	0.000	0.000	0.00	0.00	0.00
18	110.00	36" Canister Weight	1	32.035	35.238	1.00	1.00	0.00	92.98	0.000	0.000	0.00	0.00	0.00
19	108.00	36" Canister Weight	1	31.911	35.103	1.00	1.00	0.00	15.49	0.000	0.000	0.00	0.00	0.00
20	75.00	GPS	1	29.553	32.509	0.80	0.80	0.80	12.00	0.000	0.000	41.61	0.00	0.00
Totals:									1,403.02			456.34		

Total Applied Force Summary

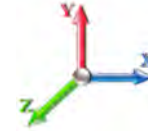
Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 101 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



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		66.81	198.90	0.00	0.00
2.00		66.81	198.90	0.00	0.00
3.00		66.81	198.90	0.00	0.00
4.00		66.81	198.90	0.00	0.00
5.00		66.81	198.90	0.00	0.00
6.00		66.81	198.90	0.00	0.00
7.00		66.81	198.90	0.00	0.00
8.00		66.81	198.90	0.00	0.00
9.00		66.81	198.90	0.00	0.00
10.00		66.81	198.90	0.00	0.00
11.00		66.81	198.90	0.00	0.00
12.00		66.81	198.90	0.00	0.00
13.00		66.81	198.90	0.00	0.00
14.00		66.81	198.90	0.00	0.00
15.00		66.81	198.90	0.00	0.00
16.00		67.63	198.90	0.00	0.00
17.00		68.50	198.90	0.00	0.00
18.00		69.33	198.90	0.00	0.00
19.00		70.12	198.90	0.00	0.00
20.00		70.88	198.90	0.00	0.00
21.00		59.68	170.04	0.00	0.00
22.00		60.27	170.04	0.00	0.00
23.00		60.83	170.04	0.00	0.00
24.00		61.38	170.04	0.00	0.00
25.00		61.91	170.04	0.00	0.00
26.00		62.42	170.04	0.00	0.00
27.00		62.92	170.04	0.00	0.00
28.00		63.41	170.04	0.00	0.00
29.00		63.88	170.04	0.00	0.00
30.00		64.33	170.04	0.00	0.00
31.00		64.78	170.04	0.00	0.00
32.00		65.21	170.04	0.00	0.00
33.00		65.64	170.04	0.00	0.00
34.00		66.05	170.04	0.00	0.00
35.00		66.45	170.04	0.00	0.00
36.00		66.85	170.04	0.00	0.00
37.00		67.24	170.04	0.00	0.00
38.00		67.62	170.04	0.00	0.00
39.00		67.99	170.04	0.00	0.00
40.00		68.35	170.04	0.00	0.00
41.00		68.71	170.04	0.00	0.00
42.00		69.06	170.04	0.00	0.00
43.00		69.40	170.04	0.00	0.00
44.00		69.73	170.04	0.00	0.00
45.00		70.07	170.04	0.00	0.00
46.00		70.39	170.04	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	70.71	170.04	0.00	0.00
48.00	71.02	170.04	0.00	0.00
49.00	71.33	170.04	0.00	0.00
50.00	71.64	170.04	0.00	0.00
51.00	57.55	141.18	0.00	0.00
52.00	57.78	141.18	0.00	0.00
53.00	58.02	141.18	0.00	0.00
54.00	58.25	141.18	0.00	0.00
55.00	58.47	141.18	0.00	0.00
56.00	58.69	141.18	0.00	0.00
57.00	58.91	141.18	0.00	0.00
58.00	59.13	141.18	0.00	0.00
59.00	59.34	141.18	0.00	0.00
60.00	59.55	141.18	0.00	0.00
61.00	59.76	141.18	0.00	0.00
62.00	59.96	141.18	0.00	0.00
63.00	60.17	141.18	0.00	0.00
64.00	60.37	141.18	0.00	0.00
65.00	60.56	141.18	0.00	0.00
66.00	60.76	141.18	0.00	0.00
67.00	60.95	141.18	0.00	0.00
68.00	61.14	141.18	0.00	0.00
69.00	61.33	141.18	0.00	0.00
70.00	61.52	141.18	0.00	0.00
71.00	61.70	141.18	0.00	0.00
72.00	61.88	141.18	0.00	0.00
73.00	62.06	141.18	0.00	0.00
74.00	62.24	141.18	0.00	0.00
75.00	(1) attachments 104.03	153.18	0.00	0.00
76.00	62.59	140.99	0.00	0.00
77.00	62.76	140.99	0.00	0.00
78.00	62.93	140.99	0.00	0.00
79.00	63.10	140.99	0.00	0.00
80.00	63.27	140.99	0.00	0.00
81.00	63.44	140.99	0.00	0.00
82.00	63.60	140.99	0.00	0.00
83.00	63.76	140.99	0.00	0.00
84.00	63.92	140.99	0.00	0.00
85.00	64.08	140.99	0.00	0.00
86.00	64.24	140.99	0.00	0.00
87.00	64.40	140.99	0.00	0.00
88.00	64.55	140.99	0.00	0.00
89.00	64.71	140.99	0.00	0.00
90.00	64.86	140.99	0.00	0.00
91.00	65.01	140.99	0.00	0.00
92.00	65.16	140.99	0.00	0.00
93.00	65.31	140.99	0.00	0.00
94.00	65.46	140.99	0.00	0.00
95.00	65.60	140.99	0.00	0.00
96.00	65.75	140.99	0.00	0.00
97.00	65.89	140.99	0.00	0.00
98.00	66.03	140.99	0.00	0.00
99.00	66.17	140.99	0.00	0.00
100.00	66.31	140.99	0.00	0.00
101.00	66.45	140.99	0.00	0.00
102.00	66.59	140.99	0.00	0.00
103.00	66.73	140.99	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	66.86	140.99	0.00	0.00	
105.00	67.00	140.99	0.00	0.00	
106.00	67.13	140.99	0.00	0.00	
107.00	67.27	140.99	0.00	0.00	
108.00	(1) attachments 67.40	156.48	0.00	0.00	
109.00	101.29	152.51	0.00	0.00	
110.00	(1) attachments 101.49	245.48	0.00	0.00	
111.00	101.68	112.62	0.00	0.00	
111.50	50.89	56.31	0.00	0.00	
112.00	50.94	56.31	0.00	0.00	
113.00	102.06	112.62	0.00	0.00	
114.00	102.25	112.62	0.00	0.00	
115.00	(10) attachments 102.44	370.14	0.00	0.00	
116.00	102.63	105.56	0.00	0.00	
117.00	102.81	105.56	0.00	0.00	
118.00	103.00	105.56	0.00	0.00	
119.00	103.18	105.56	0.00	0.00	
120.00	(1) attachments 103.36	260.53	0.00	0.00	
121.00	103.54	105.56	0.00	0.00	
122.00	103.72	105.56	0.00	0.00	
123.00	103.90	105.56	0.00	0.00	
124.00	104.08	105.56	0.00	0.00	
125.00	104.25	105.56	0.00	0.00	
126.00	104.43	105.56	0.00	0.00	
127.00	(13) attachments 104.60	305.84	0.00	0.00	
128.00	104.78	94.83	0.00	0.00	
129.00	104.95	94.83	0.00	0.00	
130.00	(1) attachments 105.12	249.80	0.00	0.00	
131.00	105.29	55.39	0.00	0.00	
132.00	105.46	55.39	0.00	0.00	
133.00	105.63	55.39	0.00	0.00	
134.00	105.79	55.39	0.00	0.00	
135.00	(12) attachments 105.96	301.75	0.00	0.00	
136.00	106.12	45.84	0.00	0.00	
137.00	106.29	45.84	0.00	0.00	
138.00	106.45	45.84	0.00	0.00	
139.00	106.61	45.84	0.00	0.00	
140.00	(2) attachments 436.58	230.81	0.00	0.00	
141.00	106.93	45.84	0.00	0.00	
142.00	107.09	45.84	0.00	0.00	
143.00	107.25	45.84	0.00	0.00	
144.00	107.41	45.84	0.00	0.00	
145.00	107.56	45.84	0.00	0.00	
146.00	107.72	45.84	0.00	0.00	
147.00	107.87	45.84	0.00	0.00	
148.00	108.03	45.84	0.00	0.00	
149.00	108.18	45.84	0.00	0.00	
150.00	(2) attachments 193.26	129.32	0.00	42.46	
Totals:		11,853.15	22,048.20	0.00	42.46

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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

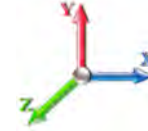


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Load Case: 1.2D + 1.6W 101 mph Wind

Iterations 43

Dead Load Factor 1.20
Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-22.04	-11.86	0.00	-1070.6	0.00	1070.64	1490.10	745.05	2187.51	1339.68	0.00	0.000	0.000	0.814
1.00	-21.84	-11.81	0.00	-1058.7	0.00	1058.78	1490.10	745.05	2187.51	1339.68	0.01	-0.045	0.000	0.805
2.00	-21.63	-11.76	0.00	-1046.9	0.00	1046.97	1490.10	745.05	2187.51	1339.68	0.02	-0.090	0.000	0.796
3.00	-21.42	-11.71	0.00	-1035.2	0.00	1035.20	1490.10	745.05	2187.51	1339.68	0.04	-0.135	0.000	0.787
4.00	-21.21	-11.66	0.00	-1023.4	0.00	1023.49	1490.10	745.05	2187.51	1339.68	0.08	-0.179	0.000	0.778
5.00	-21.00	-11.61	0.00	-1011.8	0.00	1011.83	1490.10	745.05	2187.51	1339.68	0.12	-0.222	0.000	0.770
6.00	-20.80	-11.56	0.00	-1000.2	0.00	1000.23	1490.10	745.05	2187.51	1339.68	0.17	-0.265	0.000	0.761
7.00	-20.59	-11.50	0.00	-988.67	0.00	988.67	1490.10	745.05	2187.51	1339.68	0.23	-0.308	0.000	0.752
8.00	-20.38	-11.45	0.00	-977.17	0.00	977.17	1490.10	745.05	2187.51	1339.68	0.30	-0.350	0.000	0.743
9.00	-20.18	-11.40	0.00	-965.72	0.00	965.72	1490.10	745.05	2187.51	1339.68	0.38	-0.391	0.000	0.735
10.00	-19.97	-11.34	0.00	-954.32	0.00	954.32	1490.10	745.05	2187.51	1339.68	0.46	-0.432	0.000	0.726
11.00	-19.76	-11.29	0.00	-942.98	0.00	942.98	1490.10	745.05	2187.51	1339.68	0.56	-0.473	0.000	0.717
12.00	-19.56	-11.23	0.00	-931.69	0.00	931.69	1490.10	745.05	2187.51	1339.68	0.66	-0.513	0.000	0.709
13.00	-19.35	-11.18	0.00	-920.46	0.00	920.46	1490.10	745.05	2187.51	1339.68	0.77	-0.552	0.000	0.700
14.00	-19.15	-11.12	0.00	-909.28	0.00	909.28	1490.10	745.05	2187.51	1339.68	0.89	-0.591	0.000	0.692
15.00	-18.94	-11.07	0.00	-898.16	0.00	898.16	1490.10	745.05	2187.51	1339.68	1.02	-0.630	0.000	0.683
16.00	-18.74	-11.01	0.00	-887.09	0.00	887.09	1490.10	745.05	2187.51	1339.68	1.16	-0.668	0.000	0.675
17.00	-18.53	-10.95	0.00	-876.08	0.00	876.08	1490.10	745.05	2187.51	1339.68	1.30	-0.706	0.000	0.667
18.00	-18.32	-10.89	0.00	-865.13	0.00	865.13	1490.10	745.05	2187.51	1339.68	1.45	-0.743	0.000	0.658
19.00	-18.12	-10.83	0.00	-854.24	0.00	854.24	1490.10	745.05	2187.51	1339.68	1.61	-0.779	0.000	0.650
20.00	-17.92	-10.77	0.00	-843.42	0.00	843.42	1490.10	745.05	2187.51	1339.68	1.78	-0.816	0.000	0.642
20.00	-17.92	-10.77	0.00	-843.42	0.00	843.42	1311.06	655.53	1597.15	948.43	1.78	-0.816	0.000	0.903
21.00	-17.74	-10.72	0.00	-832.65	0.00	832.65	1311.06	655.53	1597.15	948.43	1.96	-0.851	0.000	0.892
22.00	-17.56	-10.67	0.00	-821.93	0.00	821.93	1311.06	655.53	1597.15	948.43	2.14	-0.913	0.000	0.880
23.00	-17.38	-10.63	0.00	-811.26	0.00	811.26	1311.06	655.53	1597.15	948.43	2.34	-0.974	0.000	0.869
24.00	-17.20	-10.58	0.00	-800.63	0.00	800.63	1311.06	655.53	1597.15	948.43	2.55	-1.033	0.000	0.858
25.00	-17.02	-10.54	0.00	-790.05	0.00	790.05	1311.06	655.53	1597.15	948.43	2.77	-1.092	0.000	0.846
26.00	-16.84	-10.49	0.00	-779.51	0.00	779.51	1311.06	655.53	1597.15	948.43	3.01	-1.151	0.000	0.835
27.00	-16.66	-10.44	0.00	-769.02	0.00	769.02	1311.06	655.53	1597.15	948.43	3.25	-1.208	0.000	0.824
28.00	-16.48	-10.39	0.00	-758.59	0.00	758.59	1311.06	655.53	1597.15	948.43	3.51	-1.265	0.000	0.813
29.00	-16.30	-10.33	0.00	-748.20	0.00	748.20	1311.06	655.53	1597.15	948.43	3.78	-1.321	0.000	0.802
30.00	-16.12	-10.28	0.00	-737.87	0.00	737.87	1311.06	655.53	1597.15	948.43	4.07	-1.376	0.000	0.791
31.00	-15.94	-10.23	0.00	-727.59	0.00	727.59	1311.06	655.53	1597.15	948.43	4.36	-1.430	0.000	0.780
32.00	-15.77	-10.17	0.00	-717.36	0.00	717.36	1311.06	655.53	1597.15	948.43	4.67	-1.484	0.000	0.769
33.00	-15.59	-10.12	0.00	-707.19	0.00	707.19	1311.06	655.53	1597.15	948.43	4.98	-1.537	0.000	0.758
34.00	-15.41	-10.06	0.00	-697.07	0.00	697.07	1311.06	655.53	1597.15	948.43	5.31	-1.589	0.000	0.747
35.00	-15.24	-10.00	0.00	-687.01	0.00	687.01	1311.06	655.53	1597.15	948.43	5.65	-1.640	0.000	0.736
36.00	-15.06	-9.94	0.00	-677.01	0.00	677.01	1311.06	655.53	1597.15	948.43	6.00	-1.691	0.000	0.726
37.00	-14.88	-9.88	0.00	-667.07	0.00	667.07	1311.06	655.53	1597.15	948.43	6.36	-1.741	0.000	0.715
38.00	-14.71	-9.82	0.00	-657.18	0.00	657.18	1311.06	655.53	1597.15	948.43	6.73	-1.790	0.000	0.704
39.00	-14.53	-9.76	0.00	-647.36	0.00	647.36	1311.06	655.53	1597.15	948.43	7.11	-1.839	0.000	0.694
40.00	-14.35	-9.70	0.00	-637.60	0.00	637.60	1311.06	655.53	1597.15	948.43	7.50	-1.886	0.000	0.683
41.00	-14.18	-9.64	0.00	-627.90	0.00	627.90	1311.06	655.53	1597.15	948.43	7.90	-1.933	0.000	0.673
42.00	-14.00	-9.57	0.00	-618.26	0.00	618.26	1311.06	655.53	1597.15	948.43	8.31	-1.980	0.000	0.663
43.00	-13.83	-9.51	0.00	-608.69	0.00	608.69	1311.06	655.53	1597.15	948.43	8.73	-2.025	0.000	0.653
44.00	-13.65	-9.44	0.00	-599.18	0.00	599.18	1311.06	655.53	1597.15	948.43	9.16	-2.070	0.000	0.642
45.00	-13.48	-9.38	0.00	-589.73	0.00	589.73	1311.06	655.53	1597.15	948.43	9.59	-2.114	0.000	0.632
46.00	-13.30	-9.31	0.00	-580.35	0.00	580.35	1311.06	655.53	1597.15	948.43	10.04	-2.158	0.000	0.622

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-13.13	-9.24	0.00	-571.04	0.00	571.04	1311.06	655.53	1597.15	948.43	10.50	-2.200	0.000	0.612
48.00	-12.96	-9.18	0.00	-561.80	0.00	561.80	1311.06	655.53	1597.15	948.43	10.96	-2.242	0.000	0.602
49.00	-12.78	-9.11	0.00	-552.62	0.00	552.62	1311.06	655.53	1597.15	948.43	11.44	-2.284	0.000	0.593
50.00	-12.61	-9.04	0.00	-543.51	0.00	543.51	1311.06	655.53	1597.15	948.43	11.92	-2.324	0.000	0.583
50.00	-12.61	-9.04	0.00	-543.51	0.00	543.51	1052.07	526.04	1018.84	624.04	11.92	-2.324	0.000	0.883
51.00	-12.46	-8.99	0.00	-534.47	0.00	534.47	1052.07	526.04	1018.84	624.04	12.41	-2.364	0.000	0.869
52.00	-12.31	-8.94	0.00	-525.49	0.00	525.49	1052.07	526.04	1018.84	624.04	12.92	-2.442	0.000	0.854
53.00	-12.16	-8.89	0.00	-516.55	0.00	516.55	1052.07	526.04	1018.84	624.04	13.43	-2.518	0.000	0.840
54.00	-12.01	-8.84	0.00	-507.65	0.00	507.65	1052.07	526.04	1018.84	624.04	13.97	-2.593	0.000	0.825
55.00	-11.86	-8.79	0.00	-498.81	0.00	498.81	1052.07	526.04	1018.84	624.04	14.52	-2.667	0.000	0.811
56.00	-11.71	-8.74	0.00	-490.02	0.00	490.02	1052.07	526.04	1018.84	624.04	15.09	-2.739	0.000	0.797
57.00	-11.56	-8.69	0.00	-481.27	0.00	481.27	1052.07	526.04	1018.84	624.04	15.67	-2.810	0.000	0.782
58.00	-11.41	-8.64	0.00	-472.58	0.00	472.58	1052.07	526.04	1018.84	624.04	16.26	-2.880	0.000	0.768
59.00	-11.27	-8.59	0.00	-463.94	0.00	463.94	1052.07	526.04	1018.84	624.04	16.87	-2.949	0.000	0.754
60.00	-11.12	-8.53	0.00	-455.36	0.00	455.36	1052.07	526.04	1018.84	624.04	17.50	-3.016	0.000	0.741
61.00	-10.97	-8.48	0.00	-446.82	0.00	446.82	1052.07	526.04	1018.84	624.04	18.14	-3.082	0.000	0.727
62.00	-10.82	-8.42	0.00	-438.35	0.00	438.35	1052.07	526.04	1018.84	624.04	18.79	-3.147	0.000	0.713
63.00	-10.68	-8.37	0.00	-429.92	0.00	429.92	1052.07	526.04	1018.84	624.04	19.46	-3.210	0.000	0.699
64.00	-10.53	-8.31	0.00	-421.56	0.00	421.56	1052.07	526.04	1018.84	624.04	20.13	-3.273	0.000	0.686
65.00	-10.38	-8.25	0.00	-413.25	0.00	413.25	1052.07	526.04	1018.84	624.04	20.83	-3.334	0.000	0.672
66.00	-10.24	-8.19	0.00	-405.00	0.00	405.00	1052.07	526.04	1018.84	624.04	21.53	-3.394	0.000	0.659
67.00	-10.09	-8.13	0.00	-396.80	0.00	396.80	1052.07	526.04	1018.84	624.04	22.25	-3.452	0.000	0.646
68.00	-9.95	-8.07	0.00	-388.67	0.00	388.67	1052.07	526.04	1018.84	624.04	22.98	-3.510	0.000	0.633
69.00	-9.80	-8.01	0.00	-380.59	0.00	380.59	1052.07	526.04	1018.84	624.04	23.72	-3.566	0.000	0.619
70.00	-9.66	-7.95	0.00	-372.58	0.00	372.58	1052.07	526.04	1018.84	624.04	24.47	-3.621	0.000	0.606
71.00	-9.51	-7.89	0.00	-364.63	0.00	364.63	1052.07	526.04	1018.84	624.04	25.23	-3.675	0.000	0.594
72.00	-9.37	-7.83	0.00	-356.73	0.00	356.73	1052.07	526.04	1018.84	624.04	26.01	-3.728	0.000	0.581
73.00	-9.23	-7.77	0.00	-348.90	0.00	348.90	1052.07	526.04	1018.84	624.04	26.79	-3.780	0.000	0.568
74.00	-9.08	-7.70	0.00	-341.14	0.00	341.14	1052.07	526.04	1018.84	624.04	27.59	-3.830	0.000	0.556
75.00	-8.93	-7.60	0.00	-333.44	0.00	333.44	1052.07	526.04	1018.84	624.04	28.40	-3.880	0.000	0.543
76.00	-8.79	-7.53	0.00	-325.84	0.00	325.84	1052.07	526.04	1018.84	624.04	29.22	-3.928	0.000	0.531
77.00	-8.65	-7.47	0.00	-318.31	0.00	318.31	1052.07	526.04	1018.84	624.04	30.04	-3.975	0.000	0.518
78.00	-8.50	-7.40	0.00	-310.84	0.00	310.84	1052.07	526.04	1018.84	624.04	30.88	-4.021	0.000	0.506
79.00	-8.36	-7.33	0.00	-303.44	0.00	303.44	1052.07	526.04	1018.84	624.04	31.73	-4.066	0.000	0.494
80.00	-8.22	-7.27	0.00	-296.11	0.00	296.11	1052.07	526.04	1018.84	624.04	32.58	-4.110	0.000	0.483
80.00	-8.22	-7.27	0.00	-296.11	0.00	296.11	1052.07	526.04	1018.84	624.04	32.58	-4.110	0.000	0.483
81.00	-8.08	-7.20	0.00	-288.84	0.00	288.84	1052.07	526.04	1018.84	624.04	33.45	-4.153	0.000	0.471
82.00	-7.94	-7.13	0.00	-281.64	0.00	281.64	1052.07	526.04	1018.84	624.04	34.32	-4.195	0.000	0.459
83.00	-7.80	-7.06	0.00	-274.51	0.00	274.51	1052.07	526.04	1018.84	624.04	35.20	-4.235	0.000	0.447
84.00	-7.66	-6.99	0.00	-267.45	0.00	267.45	1052.07	526.04	1018.84	624.04	36.09	-4.275	0.000	0.436
85.00	-7.52	-6.92	0.00	-260.45	0.00	260.45	1052.07	526.04	1018.84	624.04	36.99	-4.314	0.000	0.425
86.00	-7.38	-6.85	0.00	-253.53	0.00	253.53	1052.07	526.04	1018.84	624.04	37.90	-4.351	0.000	0.413
87.00	-7.24	-6.78	0.00	-246.67	0.00	246.67	1052.07	526.04	1018.84	624.04	38.81	-4.388	0.000	0.402
88.00	-7.10	-6.71	0.00	-239.89	0.00	239.89	1052.07	526.04	1018.84	624.04	39.73	-4.424	0.000	0.391
89.00	-6.96	-6.64	0.00	-233.17	0.00	233.17	1052.07	526.04	1018.84	624.04	40.66	-4.458	0.000	0.380
90.00	-6.82	-6.57	0.00	-226.53	0.00	226.53	1052.07	526.04	1018.84	624.04	41.60	-4.492	0.000	0.370
91.00	-6.68	-6.50	0.00	-219.96	0.00	219.96	1052.07	526.04	1018.84	624.04	42.54	-4.524	0.000	0.359
92.00	-6.54	-6.43	0.00	-213.46	0.00	213.46	1052.07	526.04	1018.84	624.04	43.49	-4.556	0.000	0.348
93.00	-6.40	-6.35	0.00	-207.04	0.00	207.04	1052.07	526.04	1018.84	624.04	44.45	-4.587	0.000	0.338
94.00	-6.26	-6.28	0.00	-200.68	0.00	200.68	1052.07	526.04	1018.84	624.04	45.41	-4.617	0.000	0.328
95.00	-6.12	-6.21	0.00	-194.40	0.00	194.40	1052.07	526.04	1018.84	624.04	46.38	-4.646	0.000	0.317
96.00	-5.99	-6.13	0.00	-188.20	0.00	188.20	1052.07	526.04	1018.84	624.04	47.36	-4.674	0.000	0.307
97.00	-5.85	-6.06	0.00	-182.07	0.00	182.07	1052.07	526.04	1018.84	624.04	48.34	-4.701	0.000	0.297
98.00	-5.71	-5.98	0.00	-176.01	0.00	176.01	1052.07	526.04	1018.84	624.04	49.33	-4.727	0.000	0.288
99.00	-5.57	-5.91	0.00	-170.03	0.00	170.03	1052.07	526.04	1018.84	624.04	50.32	-4.752	0.000	0.278
100.00	-5.43	-5.83	0.00	-164.12	0.00	164.12	1052.07	526.04	1018.84	624.04	51.31	-4.777	0.000	0.268
101.00	-5.30	-5.76	0.00	-158.29	0.00	158.29	1052.07	526.04	1018.84	624.04	52.32	-4.800	0.000	0.259

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-5.16	-5.68	0.00	-152.53	0.00	152.53	1052.07	526.04	1018.84	624.04	53.32	-4.823	0.000	0.249
103.00	-5.02	-5.60	0.00	-146.85	0.00	146.85	1052.07	526.04	1018.84	624.04	54.33	-4.845	0.000	0.240
104.00	-4.89	-5.53	0.00	-141.25	0.00	141.25	1052.07	526.04	1018.84	624.04	55.35	-4.866	0.000	0.231
105.00	-4.75	-5.45	0.00	-135.72	0.00	135.72	1052.07	526.04	1018.84	624.04	56.37	-4.886	0.000	0.222
106.00	-4.61	-5.37	0.00	-130.27	0.00	130.27	1052.07	526.04	1018.84	624.04	57.39	-4.906	0.000	0.213
107.00	-4.48	-5.29	0.00	-124.90	0.00	124.90	1052.07	526.04	1018.84	624.04	58.42	-4.925	0.000	0.205
108.00	-4.33	-5.22	0.00	-119.61	0.00	119.61	1052.07	526.04	1018.84	624.04	59.46	-4.943	0.000	0.196
108.00	-4.33	-5.22	0.00	-119.61	0.00	119.61	1052.07	526.04	1018.84	624.04	59.46	-4.943	0.000	0.196
109.00	-4.18	-5.10	0.00	-114.39	0.00	114.39	1052.07	526.04	1018.84	624.04	60.49	-4.960	0.000	0.187
110.00	-3.94	-4.98	0.00	-109.29	0.00	109.29	1052.07	526.04	1018.84	624.04	61.53	-4.976	0.000	0.111
110.00	-3.94	-4.98	0.00	-109.29	0.00	109.29	682.83	341.41	139.27	105.20	61.53	-4.976	0.000	0.028
111.00	-3.84	-4.87	0.00	-104.31	0.00	104.31	682.83	341.41	139.27	105.20	62.57	-4.986	0.000	0.267
111.50	-3.78	-4.82	0.00	-101.87	0.00	101.87	682.83	341.41	139.27	105.20	63.10	-5.038	0.000	0.261
111.50	-3.78	-4.82	0.00	-101.87	0.00	101.87	682.83	341.41	139.27	105.20	63.10	-5.038	0.000	0.261
112.00	-3.71	-4.78	0.00	-99.46	0.00	99.46	682.83	341.41	139.27	105.20	63.63	-5.089	0.000	0.951
113.00	-3.58	-4.69	0.00	-94.68	0.00	94.68	682.83	341.41	139.27	105.20	64.73	-5.459	0.000	0.906
114.00	-3.45	-4.60	0.00	-90.00	0.00	90.00	682.83	341.41	139.27	105.20	65.91	-5.810	0.000	0.861
115.00	-3.07	-4.47	0.00	-85.40	0.00	85.40	682.83	341.41	139.27	105.20	67.16	-6.144	0.000	0.816
116.00	-2.95	-4.38	0.00	-80.93	0.00	80.93	682.83	341.41	139.27	105.20	68.48	-6.461	0.000	0.774
117.00	-2.84	-4.28	0.00	-76.55	0.00	76.55	682.83	341.41	139.27	105.20	69.86	-6.761	0.000	0.732
118.00	-2.72	-4.17	0.00	-72.28	0.00	72.28	682.83	341.41	139.27	105.20	71.30	-7.044	0.000	0.691
119.00	-2.61	-4.07	0.00	-68.10	0.00	68.10	682.83	341.41	139.27	105.20	72.80	-7.311	0.000	0.651
120.00	-2.35	-3.94	0.00	-64.03	0.00	64.03	682.83	341.41	139.27	105.20	74.35	-7.563	0.000	0.612
121.00	-2.25	-3.84	0.00	-60.09	0.00	60.09	682.83	341.41	139.27	105.20	75.96	-7.799	0.000	0.575
122.00	-2.14	-3.73	0.00	-56.25	0.00	56.25	682.83	341.41	139.27	105.20	77.61	-8.021	0.000	0.538
123.00	-2.04	-3.62	0.00	-52.52	0.00	52.52	682.83	341.41	139.27	105.20	79.31	-8.228	0.000	0.502
124.00	-1.94	-3.50	0.00	-48.91	0.00	48.91	682.83	341.41	139.27	105.20	81.04	-8.421	0.000	0.468
125.00	-1.84	-3.39	0.00	-45.40	0.00	45.40	682.83	341.41	139.27	105.20	82.82	-8.600	0.000	0.434
126.00	-1.74	-3.28	0.00	-42.01	0.00	42.01	682.83	341.41	139.27	105.20	84.63	-8.767	0.000	0.402
127.00	-1.45	-3.13	0.00	-38.73	0.00	38.73	682.83	341.41	139.27	105.20	86.48	-8.921	0.000	0.370
128.00	-1.36	-3.02	0.00	-35.60	0.00	35.60	682.83	341.41	139.27	105.20	88.35	-9.062	0.000	0.341
129.00	-1.28	-2.90	0.00	-32.59	0.00	32.59	682.83	341.41	139.27	105.20	90.26	-9.192	0.000	0.312
130.00	-1.04	-2.76	0.00	-29.69	0.00	29.69	682.83	341.41	139.27	105.20	92.19	-9.311	0.000	0.284
130.00	-1.04	-2.76	0.00	-29.69	0.00	29.69	317.71	158.85	76.59	52.28	92.19	-9.311	0.000	0.571
131.00	-1.00	-2.65	0.00	-26.93	0.00	26.93	317.71	158.85	76.59	52.28	94.14	-9.418	0.000	0.519
132.00	-0.96	-2.54	0.00	-24.28	0.00	24.28	317.71	158.85	76.59	52.28	96.12	-9.599	0.000	0.468
133.00	-0.91	-2.43	0.00	-21.74	0.00	21.74	317.71	158.85	76.59	52.28	98.14	-9.761	0.000	0.419
134.00	-0.87	-2.31	0.00	-19.32	0.00	19.32	317.71	158.85	76.59	52.28	100.19	-9.906	0.000	0.372
135.00	-0.59	-2.16	0.00	-17.00	0.00	17.00	317.71	158.85	76.59	52.28	102.27	-10.034	0.000	0.327
136.00	-0.56	-2.05	0.00	-14.84	0.00	14.84	317.71	158.85	76.59	52.28	104.37	-10.147	0.000	0.286
137.00	-0.53	-1.94	0.00	-12.80	0.00	12.80	317.71	158.85	76.59	52.28	106.50	-10.244	0.000	0.247
138.00	-0.50	-1.82	0.00	-10.86	0.00	10.86	317.71	158.85	76.59	52.28	108.64	-10.328	0.000	0.209
139.00	-0.47	-1.71	0.00	-9.04	0.00	9.04	317.71	158.85	76.59	52.28	110.80	-10.398	0.000	0.174
140.00	-0.32	-1.24	0.00	-7.32	0.00	7.32	317.71	158.85	76.59	52.28	112.97	-10.455	0.000	0.141
141.00	-0.30	-1.13	0.00	-6.08	0.00	6.08	317.71	158.85	76.59	52.28	115.15	-10.503	0.000	0.117
142.00	-0.27	-1.01	0.00	-4.96	0.00	4.96	317.71	158.85	76.59	52.28	117.35	-10.542	0.000	0.096
143.00	-0.24	-0.90	0.00	-3.94	0.00	3.94	317.71	158.85	76.59	52.28	119.54	-10.573	0.000	0.076
144.00	-0.22	-0.79	0.00	-3.04	0.00	3.04	317.71	158.85	76.59	52.28	121.75	-10.598	0.000	0.059
145.00	-0.19	-0.67	0.00	-2.26	0.00	2.26	317.71	158.85	76.59	52.28	123.96	-10.616	0.000	0.044
146.00	-0.17	-0.56	0.00	-1.59	0.00	1.59	317.71	158.85	76.59	52.28	126.17	-10.630	0.000	0.031
147.00	-0.14	-0.44	0.00	-1.03	0.00	1.03	317.71	158.85	76.59	52.28	128.39	-10.639	0.000	0.020
148.00	-0.12	-0.33	0.00	-0.58	0.00	0.58	317.71	158.85	76.59	52.28	130.60	-10.645	0.000	0.012
149.00	-0.09	-0.21	0.00	-0.26	0.00	0.26	317.71	158.85	76.59	52.28	132.82	-10.648	0.000	0.005
150.00	0.00	-0.19	0.00	-0.04	0.00	0.04	317.71	158.85	76.59	52.28	135.04	-10.649	0.000	0.001

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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

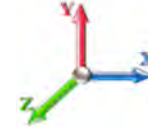


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Load Case: 0.9D + 1.6W 101 mph Wind

Iterations 43

Dead Load Factor 0.90
Wind Load Factor 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
2.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
3.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
4.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
5.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
6.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
7.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
8.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
9.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
10.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
11.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
12.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
13.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
14.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
15.00		1.00	0.85	21.088	23.20	279.35	0.600	0.000	1.00	3.000	1.80	66.8	0.0	128.5
16.00		1.00	0.86	21.348	23.48	281.07	0.600	0.000	1.00	3.000	1.80	67.6	0.0	128.5
17.00		1.00	0.87	21.622	23.78	282.87	0.600	0.000	1.00	3.000	1.80	68.5	0.0	128.5
18.00		1.00	0.88	21.884	24.07	284.58	0.600	0.000	1.00	3.000	1.80	69.3	0.0	128.5
19.00		1.00	0.89	22.134	24.35	286.20	0.600	0.000	1.00	3.000	1.80	70.1	0.0	128.5
20.00	Top - Section 1	1.00	0.90	22.375	24.61	287.75	0.600	0.000	1.00	3.000	1.80	70.9	0.0	128.5
21.00		1.00	0.91	22.606	24.87	241.03	0.600	0.000	1.00	2.500	1.50	59.7	0.0	106.9
22.00		1.00	0.92	22.828	25.11	242.21	0.600	0.000	1.00	2.500	1.50	60.3	0.0	106.9
23.00		1.00	0.93	23.043	25.35	243.35	0.600	0.000	1.00	2.500	1.50	60.8	0.0	106.9
24.00		1.00	0.94	23.250	25.58	244.44	0.600	0.000	1.00	2.500	1.50	61.4	0.0	106.9
25.00		1.00	0.95	23.451	25.80	245.49	0.600	0.000	1.00	2.500	1.50	61.9	0.0	106.9
26.00		1.00	0.95	23.645	26.01	246.51	0.600	0.000	1.00	2.500	1.50	62.4	0.0	106.9
27.00		1.00	0.96	23.834	26.22	247.49	0.600	0.000	1.00	2.500	1.50	62.9	0.0	106.9
28.00		1.00	0.97	24.017	26.42	248.44	0.600	0.000	1.00	2.500	1.50	63.4	0.0	106.9
29.00		1.00	0.98	24.195	26.61	249.36	0.600	0.000	1.00	2.500	1.50	63.9	0.0	106.9
30.00		1.00	0.98	24.369	26.81	250.25	0.600	0.000	1.00	2.500	1.50	64.3	0.0	106.9
31.00		1.00	0.99	24.537	26.99	251.11	0.600	0.000	1.00	2.500	1.50	64.8	0.0	106.9
32.00		1.00	1.00	24.702	27.17	251.96	0.600	0.000	1.00	2.500	1.50	65.2	0.0	106.9
33.00		1.00	1.00	24.862	27.35	252.77	0.600	0.000	1.00	2.500	1.50	65.6	0.0	106.9
34.00		1.00	1.01	25.019	27.52	253.57	0.600	0.000	1.00	2.500	1.50	66.1	0.0	106.9
35.00		1.00	1.01	25.172	27.69	254.34	0.600	0.000	1.00	2.500	1.50	66.5	0.0	106.9
36.00		1.00	1.02	25.322	27.85	255.10	0.600	0.000	1.00	2.500	1.50	66.9	0.0	106.9
37.00		1.00	1.03	25.469	28.02	255.84	0.600	0.000	1.00	2.500	1.50	67.2	0.0	106.9
38.00		1.00	1.03	25.612	28.17	256.55	0.600	0.000	1.00	2.500	1.50	67.6	0.0	106.9
39.00		1.00	1.04	25.752	28.33	257.26	0.600	0.000	1.00	2.500	1.50	68.0	0.0	106.9
40.00		1.00	1.04	25.890	28.48	257.94	0.600	0.000	1.00	2.500	1.50	68.3	0.0	106.9
41.00		1.00	1.05	26.025	28.63	258.61	0.600	0.000	1.00	2.500	1.50	68.7	0.0	106.9
42.00		1.00	1.05	26.157	28.77	259.27	0.600	0.000	1.00	2.500	1.50	69.1	0.0	106.9
43.00		1.00	1.06	26.287	28.92	259.91	0.600	0.000	1.00	2.500	1.50	69.4	0.0	106.9
44.00		1.00	1.06	26.415	29.06	260.54	0.600	0.000	1.00	2.500	1.50	69.7	0.0	106.9
45.00		1.00	1.07	26.540	29.19	261.16	0.600	0.000	1.00	2.500	1.50	70.1	0.0	106.9
46.00		1.00	1.07	26.663	29.33	261.77	0.600	0.000	1.00	2.500	1.50	70.4	0.0	106.9

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	26.784	29.46	262.36	0.600	0.000	1.00	2.500	1.50	70.7	0.0	106.9	
48.00	1.00	1.08	26.903	29.59	262.94	0.600	0.000	1.00	2.500	1.50	71.0	0.0	106.9	
49.00	1.00	1.09	27.020	29.72	263.51	0.600	0.000	1.00	2.500	1.50	71.3	0.0	106.9	
50.00	Top - Section 2	1.00	1.09	27.135	29.85	264.07	0.600	0.000	1.00	2.500	1.50	71.6	0.0	106.9
51.00	1.00	1.10	27.249	29.97	211.70	0.600	0.000	1.00	2.000	1.20	57.5	0.0	85.2	
52.00	1.00	1.10	27.360	30.10	212.13	0.600	0.000	1.00	2.000	1.20	57.8	0.0	85.2	
53.00	1.00	1.11	27.470	30.22	212.56	0.600	0.000	1.00	2.000	1.20	58.0	0.0	85.2	
54.00	1.00	1.11	27.579	30.34	212.98	0.600	0.000	1.00	2.000	1.20	58.2	0.0	85.2	
55.00	1.00	1.12	27.685	30.45	213.39	0.600	0.000	1.00	2.000	1.20	58.5	0.0	85.2	
56.00	1.00	1.12	27.790	30.57	213.79	0.600	0.000	1.00	2.000	1.20	58.7	0.0	85.2	
57.00	1.00	1.12	27.894	30.68	214.19	0.600	0.000	1.00	2.000	1.20	58.9	0.0	85.2	
58.00	1.00	1.13	27.997	30.80	214.59	0.600	0.000	1.00	2.000	1.20	59.1	0.0	85.2	
59.00	1.00	1.13	28.097	30.91	214.97	0.600	0.000	1.00	2.000	1.20	59.3	0.0	85.2	
60.00	1.00	1.14	28.197	31.02	215.35	0.600	0.000	1.00	2.000	1.20	59.6	0.0	85.2	
61.00	1.00	1.14	28.295	31.12	215.73	0.600	0.000	1.00	2.000	1.20	59.8	0.0	85.2	
62.00	1.00	1.14	28.392	31.23	216.10	0.600	0.000	1.00	2.000	1.20	60.0	0.0	85.2	
63.00	1.00	1.15	28.488	31.34	216.46	0.600	0.000	1.00	2.000	1.20	60.2	0.0	85.2	
64.00	1.00	1.15	28.583	31.44	216.82	0.600	0.000	1.00	2.000	1.20	60.4	0.0	85.2	
65.00	1.00	1.16	28.676	31.54	217.17	0.600	0.000	1.00	2.000	1.20	60.6	0.0	85.2	
66.00	1.00	1.16	28.769	31.65	217.52	0.600	0.000	1.00	2.000	1.20	60.8	0.0	85.2	
67.00	1.00	1.16	28.860	31.75	217.87	0.600	0.000	1.00	2.000	1.20	61.0	0.0	85.2	
68.00	1.00	1.17	28.950	31.84	218.21	0.600	0.000	1.00	2.000	1.20	61.1	0.0	85.2	
69.00	1.00	1.17	29.039	31.94	218.54	0.600	0.000	1.00	2.000	1.20	61.3	0.0	85.2	
70.00	1.00	1.17	29.127	32.04	218.88	0.600	0.000	1.00	2.000	1.20	61.5	0.0	85.2	
71.00	1.00	1.18	29.214	32.14	219.20	0.600	0.000	1.00	2.000	1.20	61.7	0.0	85.2	
72.00	1.00	1.18	29.300	32.23	219.53	0.600	0.000	1.00	2.000	1.20	61.9	0.0	85.2	
73.00	1.00	1.18	29.386	32.32	219.84	0.600	0.000	1.00	2.000	1.20	62.1	0.0	85.2	
74.00	1.00	1.19	29.470	32.42	220.16	0.600	0.000	1.00	2.000	1.20	62.2	0.0	85.2	
75.00	Appurtenance(s)	1.00	1.19	29.553	32.51	220.47	0.600	0.000	1.00	2.000	1.20	62.4	0.0	85.2
76.00	1.00	1.19	29.636	32.60	220.78	0.600	0.000	1.00	2.000	1.20	62.6	0.0	85.2	
77.00	1.00	1.20	29.718	32.69	221.08	0.600	0.000	1.00	2.000	1.20	62.8	0.0	85.2	
78.00	1.00	1.20	29.798	32.78	221.38	0.600	0.000	1.00	2.000	1.20	62.9	0.0	85.2	
79.00	1.00	1.20	29.878	32.87	221.68	0.600	0.000	1.00	2.000	1.20	63.1	0.0	85.2	
80.00	Top - Section 3	1.00	1.21	29.958	32.95	221.97	0.600	0.000	1.00	2.000	1.20	63.3	0.0	85.2
81.00	1.00	1.21	30.036	33.04	222.26	0.600	0.000	1.00	2.000	1.20	63.4	0.0	85.2	
82.00	1.00	1.21	30.114	33.13	222.55	0.600	0.000	1.00	2.000	1.20	63.6	0.0	85.2	
83.00	1.00	1.22	30.191	33.21	222.84	0.600	0.000	1.00	2.000	1.20	63.8	0.0	85.2	
84.00	1.00	1.22	30.267	33.29	223.12	0.600	0.000	1.00	2.000	1.20	63.9	0.0	85.2	
85.00	1.00	1.22	30.342	33.38	223.39	0.600	0.000	1.00	2.000	1.20	64.1	0.0	85.2	
86.00	1.00	1.23	30.417	33.46	223.67	0.600	0.000	1.00	2.000	1.20	64.2	0.0	85.2	
87.00	1.00	1.23	30.491	33.54	223.94	0.600	0.000	1.00	2.000	1.20	64.4	0.0	85.2	
88.00	1.00	1.23	30.565	33.62	224.21	0.600	0.000	1.00	2.000	1.20	64.6	0.0	85.2	
89.00	1.00	1.23	30.638	33.70	224.48	0.600	0.000	1.00	2.000	1.20	64.7	0.0	85.2	
90.00	1.00	1.24	30.710	33.78	224.74	0.600	0.000	1.00	2.000	1.20	64.9	0.0	85.2	
91.00	1.00	1.24	30.781	33.86	225.00	0.600	0.000	1.00	2.000	1.20	65.0	0.0	85.2	
92.00	1.00	1.24	30.852	33.94	225.26	0.600	0.000	1.00	2.000	1.20	65.2	0.0	85.2	
93.00	1.00	1.25	30.922	34.01	225.52	0.600	0.000	1.00	2.000	1.20	65.3	0.0	85.2	
94.00	1.00	1.25	30.992	34.09	225.77	0.600	0.000	1.00	2.000	1.20	65.5	0.0	85.2	
95.00	1.00	1.25	31.061	34.17	226.03	0.600	0.000	1.00	2.000	1.20	65.6	0.0	85.2	
96.00	1.00	1.25	31.130	34.24	226.28	0.600	0.000	1.00	2.000	1.20	65.7	0.0	85.2	
97.00	1.00	1.26	31.198	34.32	226.52	0.600	0.000	1.00	2.000	1.20	65.9	0.0	85.2	
98.00	1.00	1.26	31.265	34.39	226.77	0.600	0.000	1.00	2.000	1.20	66.0	0.0	85.2	
99.00	1.00	1.26	31.332	34.47	227.01	0.600	0.000	1.00	2.000	1.20	66.2	0.0	85.2	
100.00	1.00	1.27	31.399	34.54	227.25	0.600	0.000	1.00	2.000	1.20	66.3	0.0	85.2	
101.00	1.00	1.27	31.464	34.61	227.49	0.600	0.000	1.00	2.000	1.20	66.5	0.0	85.2	
102.00	1.00	1.27	31.530	34.68	227.72	0.600	0.000	1.00	2.000	1.20	66.6	0.0	85.2	
103.00	1.00	1.27	31.595	34.75	227.96	0.600	0.000	1.00	2.000	1.20	66.7	0.0	85.2	

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	31.659	34.82	228.19	0.600	0.000	1.00	2.000	1.20	66.9	0.0	85.2
105.00	1.00	1.28	31.723	34.89	228.42	0.600	0.000	1.00	2.000	1.20	67.0	0.0	85.2
106.00	1.00	1.28	31.786	34.96	228.65	0.600	0.000	1.00	2.000	1.20	67.1	0.0	85.2
107.00	1.00	1.28	31.849	35.03	228.87	0.600	0.000	1.00	2.000	1.20	67.3	0.0	85.2
108.00 Top - Section 4	1.00	1.29	31.911	35.10	229.10	0.600	0.000	1.00	2.000	1.20	67.4	0.0	85.2
109.00	1.00	1.29	31.973	35.17	343.98	0.600	0.000	1.00	3.000	1.80	101.3	0.0	93.9
110.00 Top - Section 5 RB1	1.00	1.29	32.035	35.24	344.31	0.600	0.000	1.00	3.000	1.80	101.5	0.0	93.9
111.00	1.00	1.29	32.096	35.31	344.64	0.600	0.000	1.00	3.000	1.80	101.7	0.0	64.0
111.50 RT1	1.00	1.29	32.126	35.34	344.80	0.600	0.000	0.50	1.500	0.90	50.9	0.0	32.0
112.00	1.00	1.30	32.157	35.37	344.96	0.600	0.000	0.50	1.500	0.90	50.9	0.0	32.0
113.00	1.00	1.30	32.217	35.44	345.29	0.600	0.000	1.00	3.000	1.80	102.1	0.0	64.0
114.00	1.00	1.30	32.277	35.50	345.61	0.600	0.000	1.00	3.000	1.80	102.3	0.0	64.0
115.00 Appurtenance(s)	1.00	1.30	32.336	35.57	345.93	0.600	0.000	1.00	3.000	1.80	102.4	0.0	64.0
116.00	1.00	1.31	32.395	35.63	346.24	0.600	0.000	1.00	3.000	1.80	102.6	0.0	64.0
117.00	1.00	1.31	32.454	35.70	346.55	0.600	0.000	1.00	3.000	1.80	102.8	0.0	64.0
118.00	1.00	1.31	32.512	35.76	346.87	0.600	0.000	1.00	3.000	1.80	103.0	0.0	64.0
119.00	1.00	1.31	32.570	35.83	347.17	0.600	0.000	1.00	3.000	1.80	103.2	0.0	64.0
120.00 Appurtenance(s)	1.00	1.32	32.627	35.89	347.48	0.600	0.000	1.00	3.000	1.80	103.4	0.0	64.0
121.00	1.00	1.32	32.684	35.95	347.78	0.600	0.000	1.00	3.000	1.80	103.5	0.0	64.0
122.00	1.00	1.32	32.741	36.01	348.08	0.600	0.000	1.00	3.000	1.80	103.7	0.0	64.0
123.00	1.00	1.32	32.797	36.08	348.38	0.600	0.000	1.00	3.000	1.80	103.9	0.0	64.0
124.00	1.00	1.32	32.853	36.14	348.68	0.600	0.000	1.00	3.000	1.80	104.1	0.0	64.0
125.00	1.00	1.33	32.909	36.20	348.98	0.600	0.000	1.00	3.000	1.80	104.3	0.0	64.0
126.00	1.00	1.33	32.964	36.26	349.27	0.600	0.000	1.00	3.000	1.80	104.4	0.0	64.0
127.00 Appurtenance(s)	1.00	1.33	33.019	36.32	349.56	0.600	0.000	1.00	3.000	1.80	104.6	0.0	64.0
128.00	1.00	1.33	33.073	36.38	349.85	0.600	0.000	1.00	3.000	1.80	104.8	0.0	64.0
129.00	1.00	1.34	33.128	36.44	350.13	0.600	0.000	1.00	3.000	1.80	104.9	0.0	64.0
130.00 Top - Section 6	1.00	1.34	33.182	36.50	350.42	0.600	0.000	1.00	3.000	1.80	105.1	0.0	64.0
131.00	1.00	1.34	33.235	36.56	350.70	0.600	0.000	1.00	3.000	1.80	105.3	0.0	34.4
132.00	1.00	1.34	33.288	36.62	350.98	0.600	0.000	1.00	3.000	1.80	105.5	0.0	34.4
133.00	1.00	1.34	33.341	36.68	351.26	0.600	0.000	1.00	3.000	1.80	105.6	0.0	34.4
134.00	1.00	1.35	33.394	36.73	351.54	0.600	0.000	1.00	3.000	1.80	105.8	0.0	34.4
135.00 Appurtenance(s)	1.00	1.35	33.446	36.79	351.81	0.600	0.000	1.00	3.000	1.80	106.0	0.0	34.4
136.00	1.00	1.35	33.498	36.85	352.09	0.600	0.000	1.00	3.000	1.80	106.1	0.0	34.4
137.00	1.00	1.35	33.550	36.90	352.36	0.600	0.000	1.00	3.000	1.80	106.3	0.0	34.4
138.00	1.00	1.35	33.601	36.96	352.63	0.600	0.000	1.00	3.000	1.80	106.4	0.0	34.4
139.00	1.00	1.36	33.653	37.02	352.90	0.600	0.000	1.00	3.000	1.80	106.6	0.0	34.4
140.00 Appurtenance(s)	1.00	1.36	33.703	37.07	353.16	0.600	0.000	1.00	3.000	1.80	106.8	0.0	34.4
141.00	1.00	1.36	33.754	37.13	353.43	0.600	0.000	1.00	3.000	1.80	106.9	0.0	34.4
142.00	1.00	1.36	33.804	37.18	353.69	0.600	0.000	1.00	3.000	1.80	107.1	0.0	34.4
143.00	1.00	1.36	33.854	37.24	353.95	0.600	0.000	1.00	3.000	1.80	107.2	0.0	34.4
144.00	1.00	1.37	33.904	37.29	354.21	0.600	0.000	1.00	3.000	1.80	107.4	0.0	34.4
145.00	1.00	1.37	33.953	37.35	354.47	0.600	0.000	1.00	3.000	1.80	107.6	0.0	34.4
146.00	1.00	1.37	34.002	37.40	354.73	0.600	0.000	1.00	3.000	1.80	107.7	0.0	34.4
147.00	1.00	1.37	34.051	37.46	354.98	0.600	0.000	1.00	3.000	1.80	107.9	0.0	34.4
148.00	1.00	1.37	34.100	37.51	355.24	0.600	0.000	1.00	3.000	1.80	108.0	0.0	34.4
149.00	1.00	1.38	34.148	37.56	355.49	0.600	0.000	1.00	3.000	1.80	108.2	0.0	34.4
150.00 Appurtenance(s)	1.00	1.38	34.196	37.62	355.74	0.600	0.000	1.00	3.000	1.80	108.3	0.0	34.4
Totals:								150.00			11,396.8		12,875.5

Discrete Appurtenance Forces

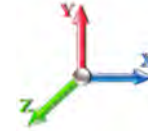
Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



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	Truck Ball	1	34.220	37.642	1.00	1.00	1.41	4.50	0.000	0.500	84.92	0.00	42.46
2	150.00	36" Canister Weight	1	34.196	37.616	1.00	1.00	0.00	58.11	0.000	0.000	0.00	0.00	0.00
3	140.00	Flag	1	33.703	37.074	1.00	1.00	5.56	22.50	0.000	0.000	329.81	0.00	0.00
4	140.00	36" Canister Weight	1	33.703	37.074	1.00	1.00	0.00	116.23	0.000	0.000	0.00	0.00	0.00
5	135.00	Flush Mount	1	33.446	36.791	0.00	1.00	0.00	22.50	0.000	0.000	0.00	0.00	0.00
6	135.00	DB-T1-6Z-8AB-0Z	2	33.446	36.791	0.00	1.00	0.00	34.02	0.000	0.000	0.00	0.00	0.00
7	135.00	FDL85002/1C-3L	6	33.446	36.791	0.00	1.00	0.00	37.80	0.000	0.000	0.00	0.00	0.00
8	135.00	SBNHH-1D65A	3	33.446	36.791	0.00	1.00	0.00	90.45	0.000	0.000	0.00	0.00	0.00
9	130.00	36" Canister Weight	1	33.182	36.500	1.00	1.00	0.00	116.23	0.000	0.000	0.00	0.00	0.00
10	127.00	Flush Mount	1	33.019	36.321	0.00	1.00	0.00	22.50	0.000	0.000	0.00	0.00	0.00
11	127.00	ATSBT-TOP-FM	3	33.019	36.321	0.00	1.00	0.00	4.86	0.000	0.000	0.00	0.00	0.00
12	127.00	CBC426T-DS-43	6	33.019	36.321	0.00	1.00	0.00	39.42	0.000	0.000	0.00	0.00	0.00
13	127.00	D2WC-21 (2LB+4MB)	3	33.019	36.321	0.00	1.00	0.00	83.43	0.000	0.000	0.00	0.00	0.00
14	120.00	36" Canister Weight	1	32.627	35.890	1.00	1.00	0.00	116.23	0.000	0.000	0.00	0.00	0.00
15	115.00	Flush Mount	1	32.336	35.570	0.00	1.00	0.00	22.50	0.000	0.000	0.00	0.00	0.00
16	115.00	LGP21401	6	32.336	35.570	0.00	1.00	0.00	76.14	0.000	0.000	0.00	0.00	0.00
17	115.00	7770.00	3	32.336	35.570	0.00	1.00	0.00	94.50	0.000	0.000	0.00	0.00	0.00
18	110.00	36" Canister Weight	1	32.035	35.238	1.00	1.00	0.00	69.73	0.000	0.000	0.00	0.00	0.00
19	108.00	36" Canister Weight	1	31.911	35.103	1.00	1.00	0.00	11.62	0.000	0.000	0.00	0.00	0.00
20	75.00	GPS	1	29.553	32.509	0.80	0.80	0.80	9.00	0.000	0.000	41.61	0.00	0.00

Totals: 1,052.26

456.34

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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

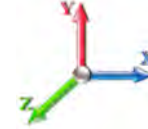


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Load Case: 0.9D + 1.6W 101 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



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		66.81	149.18	0.00	0.00
2.00		66.81	149.18	0.00	0.00
3.00		66.81	149.18	0.00	0.00
4.00		66.81	149.18	0.00	0.00
5.00		66.81	149.18	0.00	0.00
6.00		66.81	149.18	0.00	0.00
7.00		66.81	149.18	0.00	0.00
8.00		66.81	149.18	0.00	0.00
9.00		66.81	149.18	0.00	0.00
10.00		66.81	149.18	0.00	0.00
11.00		66.81	149.18	0.00	0.00
12.00		66.81	149.18	0.00	0.00
13.00		66.81	149.18	0.00	0.00
14.00		66.81	149.18	0.00	0.00
15.00		66.81	149.18	0.00	0.00
16.00		67.63	149.18	0.00	0.00
17.00		68.50	149.18	0.00	0.00
18.00		69.33	149.18	0.00	0.00
19.00		70.12	149.18	0.00	0.00
20.00		70.88	149.18	0.00	0.00
21.00		59.68	127.53	0.00	0.00
22.00		60.27	127.53	0.00	0.00
23.00		60.83	127.53	0.00	0.00
24.00		61.38	127.53	0.00	0.00
25.00		61.91	127.53	0.00	0.00
26.00		62.42	127.53	0.00	0.00
27.00		62.92	127.53	0.00	0.00
28.00		63.41	127.53	0.00	0.00
29.00		63.88	127.53	0.00	0.00
30.00		64.33	127.53	0.00	0.00
31.00		64.78	127.53	0.00	0.00
32.00		65.21	127.53	0.00	0.00
33.00		65.64	127.53	0.00	0.00
34.00		66.05	127.53	0.00	0.00
35.00		66.45	127.53	0.00	0.00
36.00		66.85	127.53	0.00	0.00
37.00		67.24	127.53	0.00	0.00
38.00		67.62	127.53	0.00	0.00
39.00		67.99	127.53	0.00	0.00
40.00		68.35	127.53	0.00	0.00
41.00		68.71	127.53	0.00	0.00
42.00		69.06	127.53	0.00	0.00
43.00		69.40	127.53	0.00	0.00
44.00		69.73	127.53	0.00	0.00
45.00		70.07	127.53	0.00	0.00
46.00		70.39	127.53	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	70.71	127.53	0.00	0.00
48.00	71.02	127.53	0.00	0.00
49.00	71.33	127.53	0.00	0.00
50.00	71.64	127.53	0.00	0.00
51.00	57.55	105.88	0.00	0.00
52.00	57.78	105.88	0.00	0.00
53.00	58.02	105.88	0.00	0.00
54.00	58.25	105.88	0.00	0.00
55.00	58.47	105.88	0.00	0.00
56.00	58.69	105.88	0.00	0.00
57.00	58.91	105.88	0.00	0.00
58.00	59.13	105.88	0.00	0.00
59.00	59.34	105.88	0.00	0.00
60.00	59.55	105.88	0.00	0.00
61.00	59.76	105.88	0.00	0.00
62.00	59.96	105.88	0.00	0.00
63.00	60.17	105.88	0.00	0.00
64.00	60.37	105.88	0.00	0.00
65.00	60.56	105.88	0.00	0.00
66.00	60.76	105.88	0.00	0.00
67.00	60.95	105.88	0.00	0.00
68.00	61.14	105.88	0.00	0.00
69.00	61.33	105.88	0.00	0.00
70.00	61.52	105.88	0.00	0.00
71.00	61.70	105.88	0.00	0.00
72.00	61.88	105.88	0.00	0.00
73.00	62.06	105.88	0.00	0.00
74.00	62.24	105.88	0.00	0.00
75.00	(1) attachments 104.03	114.88	0.00	0.00
76.00	62.59	105.74	0.00	0.00
77.00	62.76	105.74	0.00	0.00
78.00	62.93	105.74	0.00	0.00
79.00	63.10	105.74	0.00	0.00
80.00	63.27	105.74	0.00	0.00
81.00	63.44	105.74	0.00	0.00
82.00	63.60	105.74	0.00	0.00
83.00	63.76	105.74	0.00	0.00
84.00	63.92	105.74	0.00	0.00
85.00	64.08	105.74	0.00	0.00
86.00	64.24	105.74	0.00	0.00
87.00	64.40	105.74	0.00	0.00
88.00	64.55	105.74	0.00	0.00
89.00	64.71	105.74	0.00	0.00
90.00	64.86	105.74	0.00	0.00
91.00	65.01	105.74	0.00	0.00
92.00	65.16	105.74	0.00	0.00
93.00	65.31	105.74	0.00	0.00
94.00	65.46	105.74	0.00	0.00
95.00	65.60	105.74	0.00	0.00
96.00	65.75	105.74	0.00	0.00
97.00	65.89	105.74	0.00	0.00
98.00	66.03	105.74	0.00	0.00
99.00	66.17	105.74	0.00	0.00
100.00	66.31	105.74	0.00	0.00
101.00	66.45	105.74	0.00	0.00
102.00	66.59	105.74	0.00	0.00
103.00	66.73	105.74	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	66.86	105.74	0.00	0.00
105.00	67.00	105.74	0.00	0.00
106.00	67.13	105.74	0.00	0.00
107.00	67.27	105.74	0.00	0.00
108.00	(1) attachments 67.40	117.36	0.00	0.00
109.00	101.29	114.38	0.00	0.00
110.00	(1) attachments 101.49	184.11	0.00	0.00
111.00	101.68	84.46	0.00	0.00
111.50	50.89	42.23	0.00	0.00
112.00	50.94	42.23	0.00	0.00
113.00	102.06	84.46	0.00	0.00
114.00	102.25	84.46	0.00	0.00
115.00	(10) attachments 102.44	277.60	0.00	0.00
116.00	102.63	79.17	0.00	0.00
117.00	102.81	79.17	0.00	0.00
118.00	103.00	79.17	0.00	0.00
119.00	103.18	79.17	0.00	0.00
120.00	(1) attachments 103.36	195.40	0.00	0.00
121.00	103.54	79.17	0.00	0.00
122.00	103.72	79.17	0.00	0.00
123.00	103.90	79.17	0.00	0.00
124.00	104.08	79.17	0.00	0.00
125.00	104.25	79.17	0.00	0.00
126.00	104.43	79.17	0.00	0.00
127.00	(13) attachments 104.60	229.38	0.00	0.00
128.00	104.78	71.13	0.00	0.00
129.00	104.95	71.13	0.00	0.00
130.00	(1) attachments 105.12	187.35	0.00	0.00
131.00	105.29	41.54	0.00	0.00
132.00	105.46	41.54	0.00	0.00
133.00	105.63	41.54	0.00	0.00
134.00	105.79	41.54	0.00	0.00
135.00	(12) attachments 105.96	226.31	0.00	0.00
136.00	106.12	34.38	0.00	0.00
137.00	106.29	34.38	0.00	0.00
138.00	106.45	34.38	0.00	0.00
139.00	106.61	34.38	0.00	0.00
140.00	(2) attachments 436.58	173.11	0.00	0.00
141.00	106.93	34.38	0.00	0.00
142.00	107.09	34.38	0.00	0.00
143.00	107.25	34.38	0.00	0.00
144.00	107.41	34.38	0.00	0.00
145.00	107.56	34.38	0.00	0.00
146.00	107.72	34.38	0.00	0.00
147.00	107.87	34.38	0.00	0.00
148.00	108.03	34.38	0.00	0.00
149.00	108.18	34.38	0.00	0.00
150.00	(2) attachments 193.26	96.99	0.00	42.46
Totals:	11,853.15	16,536.15	0.00	42.46

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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



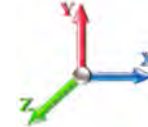
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Load Case: 0.9D + 1.6W 101 mph Wind

Iterations 43

Dead Load Factor 0.90

Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-16.53	-11.86	0.00	-1054.8	0.00	1054.85	1490.10	745.05	2187.51	1339.68	0.00	0.000	0.000	0.799
1.00	-16.37	-11.81	0.00	-1042.9	0.00	1042.99	1490.10	745.05	2187.51	1339.68	0.00	-0.045	0.000	0.790
2.00	-16.21	-11.75	0.00	-1031.1	0.00	1031.19	1490.10	745.05	2187.51	1339.68	0.02	-0.089	0.000	0.781
3.00	-16.06	-11.70	0.00	-1019.4	0.00	1019.44	1490.10	745.05	2187.51	1339.68	0.04	-0.133	0.000	0.772
4.00	-15.90	-11.64	0.00	-1007.7	0.00	1007.74	1490.10	745.05	2187.51	1339.68	0.08	-0.176	0.000	0.763
5.00	-15.74	-11.58	0.00	-996.10	0.00	996.10	1490.10	745.05	2187.51	1339.68	0.12	-0.219	0.000	0.754
6.00	-15.58	-11.53	0.00	-984.52	0.00	984.52	1490.10	745.05	2187.51	1339.68	0.17	-0.261	0.000	0.746
7.00	-15.43	-11.47	0.00	-972.99	0.00	972.99	1490.10	745.05	2187.51	1339.68	0.23	-0.303	0.000	0.737
8.00	-15.27	-11.42	0.00	-961.52	0.00	961.52	1490.10	745.05	2187.51	1339.68	0.29	-0.344	0.000	0.728
9.00	-15.11	-11.36	0.00	-950.10	0.00	950.10	1490.10	745.05	2187.51	1339.68	0.37	-0.385	0.000	0.720
10.00	-14.96	-11.30	0.00	-938.74	0.00	938.74	1490.10	745.05	2187.51	1339.68	0.46	-0.425	0.000	0.711
11.00	-14.80	-11.24	0.00	-927.44	0.00	927.44	1490.10	745.05	2187.51	1339.68	0.55	-0.465	0.000	0.702
12.00	-14.64	-11.19	0.00	-916.20	0.00	916.20	1490.10	745.05	2187.51	1339.68	0.65	-0.505	0.000	0.694
13.00	-14.49	-11.13	0.00	-905.01	0.00	905.01	1490.10	745.05	2187.51	1339.68	0.76	-0.543	0.000	0.685
14.00	-14.33	-11.07	0.00	-893.89	0.00	893.89	1490.10	745.05	2187.51	1339.68	0.88	-0.582	0.000	0.677
15.00	-14.18	-11.01	0.00	-882.82	0.00	882.82	1490.10	745.05	2187.51	1339.68	1.01	-0.620	0.000	0.669
16.00	-14.02	-10.95	0.00	-871.81	0.00	871.81	1490.10	745.05	2187.51	1339.68	1.14	-0.657	0.000	0.660
17.00	-13.87	-10.89	0.00	-860.86	0.00	860.86	1490.10	745.05	2187.51	1339.68	1.28	-0.694	0.000	0.652
18.00	-13.71	-10.83	0.00	-849.97	0.00	849.97	1490.10	745.05	2187.51	1339.68	1.43	-0.731	0.000	0.644
19.00	-13.56	-10.76	0.00	-839.15	0.00	839.15	1490.10	745.05	2187.51	1339.68	1.59	-0.767	0.000	0.636
20.00	-13.40	-10.70	0.00	-828.39	0.00	828.39	1490.10	745.05	2187.51	1339.68	1.75	-0.802	0.000	0.628
20.00	-13.40	-10.70	0.00	-828.39	0.00	828.39	1311.06	655.53	1597.15	948.43	1.75	-0.802	0.000	0.884
21.00	-13.26	-10.65	0.00	-817.69	0.00	817.69	1311.06	655.53	1597.15	948.43	1.92	-0.838	0.000	0.873
22.00	-13.13	-10.60	0.00	-807.04	0.00	807.04	1311.06	655.53	1597.15	948.43	2.11	-0.898	0.000	0.861
23.00	-12.99	-10.55	0.00	-796.44	0.00	796.44	1311.06	655.53	1597.15	948.43	2.30	-0.957	0.000	0.850
24.00	-12.85	-10.50	0.00	-785.90	0.00	785.90	1311.06	655.53	1597.15	948.43	2.51	-1.016	0.000	0.839
25.00	-12.72	-10.45	0.00	-775.40	0.00	775.40	1311.06	655.53	1597.15	948.43	2.73	-1.074	0.000	0.828
26.00	-12.58	-10.39	0.00	-764.95	0.00	764.95	1311.06	655.53	1597.15	948.43	2.96	-1.131	0.000	0.816
27.00	-12.44	-10.34	0.00	-754.56	0.00	754.56	1311.06	655.53	1597.15	948.43	3.20	-1.188	0.000	0.805
28.00	-12.31	-10.29	0.00	-744.22	0.00	744.22	1311.06	655.53	1597.15	948.43	3.46	-1.243	0.000	0.794
29.00	-12.17	-10.23	0.00	-733.93	0.00	733.93	1311.06	655.53	1597.15	948.43	3.72	-1.298	0.000	0.783
30.00	-12.04	-10.18	0.00	-723.70	0.00	723.70	1311.06	655.53	1597.15	948.43	4.00	-1.352	0.000	0.772
31.00	-11.90	-10.12	0.00	-713.52	0.00	713.52	1311.06	655.53	1597.15	948.43	4.29	-1.406	0.000	0.762
32.00	-11.77	-10.06	0.00	-703.40	0.00	703.40	1311.06	655.53	1597.15	948.43	4.59	-1.458	0.000	0.751
33.00	-11.63	-10.00	0.00	-693.34	0.00	693.34	1311.06	655.53	1597.15	948.43	4.90	-1.510	0.000	0.740
34.00	-11.50	-9.94	0.00	-683.34	0.00	683.34	1311.06	655.53	1597.15	948.43	5.22	-1.561	0.000	0.729
35.00	-11.36	-9.88	0.00	-673.40	0.00	673.40	1311.06	655.53	1597.15	948.43	5.56	-1.612	0.000	0.719
36.00	-11.23	-9.82	0.00	-663.51	0.00	663.51	1311.06	655.53	1597.15	948.43	5.90	-1.661	0.000	0.708
37.00	-11.09	-9.76	0.00	-653.69	0.00	653.69	1311.06	655.53	1597.15	948.43	6.25	-1.710	0.000	0.698
38.00	-10.96	-9.70	0.00	-643.93	0.00	643.93	1311.06	655.53	1597.15	948.43	6.61	-1.758	0.000	0.688
39.00	-10.83	-9.64	0.00	-634.23	0.00	634.23	1311.06	655.53	1597.15	948.43	6.99	-1.806	0.000	0.677
40.00	-10.69	-9.57	0.00	-624.59	0.00	624.59	1311.06	655.53	1597.15	948.43	7.37	-1.853	0.000	0.667
41.00	-10.56	-9.51	0.00	-615.02	0.00	615.02	1311.06	655.53	1597.15	948.43	7.76	-1.899	0.000	0.657
42.00	-10.43	-9.44	0.00	-605.51	0.00	605.51	1311.06	655.53	1597.15	948.43	8.17	-1.944	0.000	0.647
43.00	-10.30	-9.38	0.00	-596.07	0.00	596.07	1311.06	655.53	1597.15	948.43	8.58	-1.988	0.000	0.637
44.00	-10.16	-9.31	0.00	-586.70	0.00	586.70	1311.06	655.53	1597.15	948.43	9.00	-2.032	0.000	0.627
45.00	-10.03	-9.24	0.00	-577.39	0.00	577.39	1311.06	655.53	1597.15	948.43	9.43	-2.076	0.000	0.617
46.00	-9.90	-9.18	0.00	-568.14	0.00	568.14	1311.06	655.53	1597.15	948.43	9.87	-2.118	0.000	0.607

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-9.77	-9.11	0.00	-558.97	0.00	558.97	1311.06	655.53	1597.15	948.43	10.32	-2.160	0.000	0.597
48.00	-9.64	-9.04	0.00	-549.86	0.00	549.86	1311.06	655.53	1597.15	948.43	10.77	-2.201	0.000	0.587
49.00	-9.51	-8.97	0.00	-540.82	0.00	540.82	1311.06	655.53	1597.15	948.43	11.24	-2.242	0.000	0.578
50.00	-9.38	-8.90	0.00	-531.85	0.00	531.85	1311.06	655.53	1597.15	948.43	11.71	-2.281	0.000	0.568
50.00	-9.38	-8.90	0.00	-531.85	0.00	531.85	1052.07	526.04	1018.84	624.04	11.71	-2.281	0.000	0.861
51.00	-9.26	-8.85	0.00	-522.95	0.00	522.95	1052.07	526.04	1018.84	624.04	12.20	-2.321	0.000	0.847
52.00	-9.15	-8.80	0.00	-514.11	0.00	514.11	1052.07	526.04	1018.84	624.04	12.69	-2.397	0.000	0.833
53.00	-9.03	-8.75	0.00	-505.31	0.00	505.31	1052.07	526.04	1018.84	624.04	13.20	-2.471	0.000	0.819
54.00	-8.92	-8.69	0.00	-496.57	0.00	496.57	1052.07	526.04	1018.84	624.04	13.73	-2.544	0.000	0.804
55.00	-8.81	-8.64	0.00	-487.87	0.00	487.87	1052.07	526.04	1018.84	624.04	14.27	-2.617	0.000	0.790
56.00	-8.69	-8.59	0.00	-479.23	0.00	479.23	1052.07	526.04	1018.84	624.04	14.82	-2.687	0.000	0.776
57.00	-8.58	-8.54	0.00	-470.64	0.00	470.64	1052.07	526.04	1018.84	624.04	15.39	-2.757	0.000	0.763
58.00	-8.47	-8.48	0.00	-462.11	0.00	462.11	1052.07	526.04	1018.84	624.04	15.98	-2.825	0.000	0.749
59.00	-8.35	-8.43	0.00	-453.63	0.00	453.63	1052.07	526.04	1018.84	624.04	16.57	-2.892	0.000	0.735
60.00	-8.24	-8.37	0.00	-445.20	0.00	445.20	1052.07	526.04	1018.84	624.04	17.19	-2.958	0.000	0.722
61.00	-8.13	-8.31	0.00	-436.83	0.00	436.83	1052.07	526.04	1018.84	624.04	17.81	-3.023	0.000	0.708
62.00	-8.02	-8.26	0.00	-428.52	0.00	428.52	1052.07	526.04	1018.84	624.04	18.45	-3.086	0.000	0.695
63.00	-7.91	-8.20	0.00	-420.26	0.00	420.26	1052.07	526.04	1018.84	624.04	19.11	-3.148	0.000	0.681
64.00	-7.80	-8.14	0.00	-412.06	0.00	412.06	1052.07	526.04	1018.84	624.04	19.77	-3.209	0.000	0.668
65.00	-7.69	-8.08	0.00	-403.92	0.00	403.92	1052.07	526.04	1018.84	624.04	20.45	-3.269	0.000	0.655
66.00	-7.58	-8.02	0.00	-395.83	0.00	395.83	1052.07	526.04	1018.84	624.04	21.14	-3.327	0.000	0.642
67.00	-7.47	-7.97	0.00	-387.81	0.00	387.81	1052.07	526.04	1018.84	624.04	21.84	-3.385	0.000	0.629
68.00	-7.36	-7.90	0.00	-379.84	0.00	379.84	1052.07	526.04	1018.84	624.04	22.56	-3.441	0.000	0.616
69.00	-7.25	-7.84	0.00	-371.94	0.00	371.94	1052.07	526.04	1018.84	624.04	23.28	-3.496	0.000	0.603
70.00	-7.14	-7.78	0.00	-364.09	0.00	364.09	1052.07	526.04	1018.84	624.04	24.02	-3.550	0.000	0.590
71.00	-7.03	-7.72	0.00	-356.31	0.00	356.31	1052.07	526.04	1018.84	624.04	24.77	-3.602	0.000	0.578
72.00	-6.92	-7.66	0.00	-348.59	0.00	348.59	1052.07	526.04	1018.84	624.04	25.53	-3.654	0.000	0.565
73.00	-6.81	-7.60	0.00	-340.93	0.00	340.93	1052.07	526.04	1018.84	624.04	26.30	-3.705	0.000	0.553
74.00	-6.70	-7.53	0.00	-333.34	0.00	333.34	1052.07	526.04	1018.84	624.04	27.08	-3.754	0.000	0.541
75.00	-6.59	-7.43	0.00	-325.80	0.00	325.80	1052.07	526.04	1018.84	624.04	27.87	-3.802	0.000	0.529
76.00	-6.48	-7.36	0.00	-318.38	0.00	318.38	1052.07	526.04	1018.84	624.04	28.67	-3.849	0.000	0.517
77.00	-6.38	-7.30	0.00	-311.01	0.00	311.01	1052.07	526.04	1018.84	624.04	29.48	-3.895	0.000	0.505
78.00	-6.27	-7.23	0.00	-303.72	0.00	303.72	1052.07	526.04	1018.84	624.04	30.30	-3.940	0.000	0.493
79.00	-6.16	-7.17	0.00	-296.48	0.00	296.48	1052.07	526.04	1018.84	624.04	31.13	-3.984	0.000	0.481
80.00	-6.06	-7.10	0.00	-289.32	0.00	289.32	1052.07	526.04	1018.84	624.04	31.97	-4.027	0.000	0.470
80.00	-6.06	-7.10	0.00	-289.32	0.00	289.32	1052.07	526.04	1018.84	624.04	31.97	-4.027	0.000	0.470
81.00	-5.95	-7.03	0.00	-282.21	0.00	282.21	1052.07	526.04	1018.84	624.04	32.82	-4.069	0.000	0.458
82.00	-5.84	-6.97	0.00	-275.18	0.00	275.18	1052.07	526.04	1018.84	624.04	33.67	-4.110	0.000	0.447
83.00	-5.74	-6.90	0.00	-268.21	0.00	268.21	1052.07	526.04	1018.84	624.04	34.54	-4.150	0.000	0.435
84.00	-5.63	-6.83	0.00	-261.31	0.00	261.31	1052.07	526.04	1018.84	624.04	35.41	-4.188	0.000	0.424
85.00	-5.53	-6.76	0.00	-254.48	0.00	254.48	1052.07	526.04	1018.84	624.04	36.29	-4.226	0.000	0.413
86.00	-5.42	-6.70	0.00	-247.71	0.00	247.71	1052.07	526.04	1018.84	624.04	37.18	-4.263	0.000	0.402
87.00	-5.32	-6.63	0.00	-241.02	0.00	241.02	1052.07	526.04	1018.84	624.04	38.08	-4.299	0.000	0.391
88.00	-5.21	-6.56	0.00	-234.39	0.00	234.39	1052.07	526.04	1018.84	624.04	38.98	-4.333	0.000	0.381
89.00	-5.11	-6.49	0.00	-227.83	0.00	227.83	1052.07	526.04	1018.84	624.04	39.89	-4.367	0.000	0.370
90.00	-5.00	-6.42	0.00	-221.34	0.00	221.34	1052.07	526.04	1018.84	624.04	40.81	-4.400	0.000	0.360
91.00	-4.90	-6.35	0.00	-214.92	0.00	214.92	1052.07	526.04	1018.84	624.04	41.73	-4.432	0.000	0.349
92.00	-4.80	-6.28	0.00	-208.57	0.00	208.57	1052.07	526.04	1018.84	624.04	42.66	-4.463	0.000	0.339
93.00	-4.69	-6.21	0.00	-202.30	0.00	202.30	1052.07	526.04	1018.84	624.04	43.60	-4.493	0.000	0.329
94.00	-4.59	-6.14	0.00	-196.09	0.00	196.09	1052.07	526.04	1018.84	624.04	44.54	-4.522	0.000	0.319
95.00	-4.49	-6.06	0.00	-189.95	0.00	189.95	1052.07	526.04	1018.84	624.04	45.49	-4.551	0.000	0.309
96.00	-4.38	-5.99	0.00	-183.89	0.00	183.89	1052.07	526.04	1018.84	624.04	46.45	-4.578	0.000	0.299
97.00	-4.28	-5.92	0.00	-177.90	0.00	177.90	1052.07	526.04	1018.84	624.04	47.41	-4.604	0.000	0.289
98.00	-4.18	-5.85	0.00	-171.98	0.00	171.98	1052.07	526.04	1018.84	624.04	48.37	-4.630	0.000	0.280
99.00	-4.08	-5.77	0.00	-166.13	0.00	166.13	1052.07	526.04	1018.84	624.04	49.35	-4.655	0.000	0.270
100.00	-3.97	-5.70	0.00	-160.35	0.00	160.35	1052.07	526.04	1018.84	624.04	50.32	-4.679	0.000	0.261
101.00	-3.87	-5.63	0.00	-154.65	0.00	154.65	1052.07	526.04	1018.84	624.04	51.30	-4.702	0.000	0.252

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-3.77	-5.55	0.00	-149.02	0.00	149.02	1052.07	526.04	1018.84	624.04	52.29	-4.724	0.000	0.243
103.00	-3.67	-5.48	0.00	-143.47	0.00	143.47	1052.07	526.04	1018.84	624.04	53.28	-4.745	0.000	0.233
104.00	-3.57	-5.41	0.00	-137.99	0.00	137.99	1052.07	526.04	1018.84	624.04	54.28	-4.766	0.000	0.225
105.00	-3.46	-5.33	0.00	-132.58	0.00	132.58	1052.07	526.04	1018.84	624.04	55.27	-4.786	0.000	0.216
106.00	-3.36	-5.26	0.00	-127.25	0.00	127.25	1052.07	526.04	1018.84	624.04	56.28	-4.805	0.000	0.207
107.00	-3.26	-5.18	0.00	-121.99	0.00	121.99	1052.07	526.04	1018.84	624.04	57.29	-4.823	0.000	0.199
108.00	-3.15	-5.11	0.00	-116.81	0.00	116.81	1052.07	526.04	1018.84	624.04	58.30	-4.841	0.000	0.190
108.00	-3.15	-5.11	0.00	-116.81	0.00	116.81	1052.07	526.04	1018.84	624.04	58.30	-4.841	0.000	0.190
109.00	-3.04	-5.00	0.00	-111.70	0.00	111.70	1052.07	526.04	1018.84	624.04	59.31	-4.857	0.000	0.182
110.00	-2.87	-4.88	0.00	-106.70	0.00	106.70	1052.07	526.04	1018.84	624.04	60.33	-4.873	0.000	0.108
110.00	-2.87	-4.88	0.00	-106.70	0.00	106.70	682.83	341.41	139.27	105.20	60.33	-4.873	0.000	0.026
111.00	-2.79	-4.77	0.00	-101.82	0.00	101.82	682.83	341.41	139.27	105.20	61.35	-4.883	0.000	0.260
111.50	-2.75	-4.72	0.00	-99.43	0.00	99.43	682.83	341.41	139.27	105.20	61.86	-4.934	0.000	0.254
111.50	-2.75	-4.72	0.00	-99.43	0.00	99.43	682.83	341.41	139.27	105.20	61.86	-4.934	0.000	0.254
112.00	-2.69	-4.68	0.00	-97.07	0.00	97.07	682.83	341.41	139.27	105.20	62.38	-4.983	0.000	0.927
113.00	-2.59	-4.58	0.00	-92.40	0.00	92.40	682.83	341.41	139.27	105.20	63.46	-5.344	0.000	0.882
114.00	-2.49	-4.49	0.00	-87.81	0.00	87.81	682.83	341.41	139.27	105.20	64.62	-5.687	0.000	0.839
115.00	-2.20	-4.37	0.00	-83.32	0.00	83.32	682.83	341.41	139.27	105.20	65.84	-6.013	0.000	0.795
116.00	-2.11	-4.27	0.00	-78.95	0.00	78.95	682.83	341.41	139.27	105.20	67.13	-6.322	0.000	0.754
117.00	-2.02	-4.17	0.00	-74.68	0.00	74.68	682.83	341.41	139.27	105.20	68.48	-6.615	0.000	0.713
118.00	-1.94	-4.07	0.00	-70.51	0.00	70.51	682.83	341.41	139.27	105.20	69.89	-6.891	0.000	0.673
119.00	-1.85	-3.96	0.00	-66.44	0.00	66.44	682.83	341.41	139.27	105.20	71.36	-7.152	0.000	0.634
120.00	-1.65	-3.84	0.00	-62.48	0.00	62.48	682.83	341.41	139.27	105.20	72.88	-7.397	0.000	0.596
121.00	-1.58	-3.74	0.00	-58.63	0.00	58.63	682.83	341.41	139.27	105.20	74.45	-7.628	0.000	0.560
122.00	-1.50	-3.63	0.00	-54.90	0.00	54.90	682.83	341.41	139.27	105.20	76.07	-7.844	0.000	0.524
123.00	-1.42	-3.52	0.00	-51.27	0.00	51.27	682.83	341.41	139.27	105.20	77.72	-8.046	0.000	0.490
124.00	-1.35	-3.41	0.00	-47.75	0.00	47.75	682.83	341.41	139.27	105.20	79.42	-8.235	0.000	0.456
125.00	-1.27	-3.30	0.00	-44.34	0.00	44.34	682.83	341.41	139.27	105.20	81.16	-8.410	0.000	0.423
126.00	-1.20	-3.19	0.00	-41.04	0.00	41.04	682.83	341.41	139.27	105.20	82.93	-8.573	0.000	0.392
127.00	-0.98	-3.05	0.00	-37.85	0.00	37.85	682.83	341.41	139.27	105.20	84.74	-8.723	0.000	0.361
128.00	-0.92	-2.94	0.00	-34.80	0.00	34.80	682.83	341.41	139.27	105.20	86.57	-8.861	0.000	0.332
129.00	-0.86	-2.83	0.00	-31.86	0.00	31.86	682.83	341.41	139.27	105.20	88.43	-8.988	0.000	0.304
130.00	-0.69	-2.70	0.00	-29.03	0.00	29.03	682.83	341.41	139.27	105.20	90.32	-9.104	0.000	0.277
130.00	-0.69	-2.70	0.00	-29.03	0.00	29.03	317.71	158.85	76.59	52.28	90.32	-9.104	0.000	0.558
131.00	-0.66	-2.59	0.00	-26.33	0.00	26.33	317.71	158.85	76.59	52.28	92.23	-9.209	0.000	0.506
132.00	-0.63	-2.48	0.00	-23.75	0.00	23.75	317.71	158.85	76.59	52.28	94.17	-9.386	0.000	0.457
133.00	-0.60	-2.37	0.00	-21.27	0.00	21.27	317.71	158.85	76.59	52.28	96.14	-9.545	0.000	0.409
134.00	-0.57	-2.26	0.00	-18.90	0.00	18.90	317.71	158.85	76.59	52.28	98.15	-9.687	0.000	0.364
135.00	-0.36	-2.12	0.00	-16.64	0.00	16.64	317.71	158.85	76.59	52.28	100.18	-9.812	0.000	0.320
136.00	-0.34	-2.01	0.00	-14.53	0.00	14.53	317.71	158.85	76.59	52.28	102.24	-9.922	0.000	0.279
137.00	-0.32	-1.90	0.00	-12.52	0.00	12.52	317.71	158.85	76.59	52.28	104.32	-10.017	0.000	0.241
138.00	-0.30	-1.79	0.00	-10.63	0.00	10.63	317.71	158.85	76.59	52.28	106.41	-10.099	0.000	0.204
139.00	-0.29	-1.68	0.00	-8.84	0.00	8.84	317.71	158.85	76.59	52.28	108.52	-10.168	0.000	0.170
140.00	-0.19	-1.21	0.00	-7.17	0.00	7.17	317.71	158.85	76.59	52.28	110.65	-10.224	0.000	0.138
141.00	-0.18	-1.10	0.00	-5.95	0.00	5.95	317.71	158.85	76.59	52.28	112.78	-10.270	0.000	0.114
142.00	-0.16	-0.99	0.00	-4.85	0.00	4.85	317.71	158.85	76.59	52.28	114.93	-10.308	0.000	0.093
143.00	-0.15	-0.88	0.00	-3.85	0.00	3.85	317.71	158.85	76.59	52.28	117.08	-10.339	0.000	0.074
144.00	-0.13	-0.77	0.00	-2.97	0.00	2.97	317.71	158.85	76.59	52.28	119.24	-10.363	0.000	0.057
145.00	-0.12	-0.66	0.00	-2.20	0.00	2.20	317.71	158.85	76.59	52.28	121.40	-10.381	0.000	0.043
146.00	-0.10	-0.54	0.00	-1.55	0.00	1.55	317.71	158.85	76.59	52.28	123.56	-10.395	0.000	0.030
147.00	-0.09	-0.43	0.00	-1.00	0.00	1.00	317.71	158.85	76.59	52.28	125.73	-10.404	0.000	0.019
148.00	-0.07	-0.32	0.00	-0.57	0.00	0.57	317.71	158.85	76.59	52.28	127.89	-10.409	0.000	0.011
149.00	-0.06	-0.21	0.00	-0.25	0.00	0.25	317.71	158.85	76.59	52.28	130.06	-10.412	0.000	0.005
150.00	0.00	-0.19	0.00	-0.04	0.00	0.04	317.71	158.85	76.59	52.28	132.23	-10.413	0.000	0.001

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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



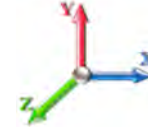
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.85	5.168	5.68	0.00	1.200	1.410	1.00	3.235	3.88	22.1	64.4	235.8
2.00		1.00	0.85	5.168	5.68	0.00	1.200	1.511	1.00	3.252	3.90	22.2	69.2	240.6
3.00		1.00	0.85	5.168	5.68	0.00	1.200	1.574	1.00	3.262	3.91	22.3	72.2	243.6
4.00		1.00	0.85	5.168	5.68	0.00	1.200	1.620	1.00	3.270	3.92	22.3	74.4	245.8
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.656	1.00	3.276	3.93	22.3	76.2	247.6
6.00		1.00	0.85	5.168	5.68	0.00	1.200	1.687	1.00	3.281	3.94	22.4	77.7	249.0
7.00		1.00	0.85	5.168	5.68	0.00	1.200	1.713	1.00	3.285	3.94	22.4	78.9	250.3
8.00		1.00	0.85	5.168	5.68	0.00	1.200	1.736	1.00	3.289	3.95	22.4	80.0	251.4
9.00		1.00	0.85	5.168	5.68	0.00	1.200	1.756	1.00	3.293	3.95	22.5	81.0	252.4
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.775	1.00	3.296	3.95	22.5	81.9	253.3
11.00		1.00	0.85	5.168	5.68	0.00	1.200	1.792	1.00	3.299	3.96	22.5	82.7	254.1
12.00		1.00	0.85	5.168	5.68	0.00	1.200	1.808	1.00	3.301	3.96	22.5	83.5	254.9
13.00		1.00	0.85	5.168	5.68	0.00	1.200	1.822	1.00	3.304	3.96	22.5	84.2	255.6
14.00		1.00	0.85	5.168	5.68	0.00	1.200	1.836	1.00	3.306	3.97	22.6	84.9	256.2
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.848	1.00	3.308	3.97	22.6	85.5	256.8
16.00		1.00	0.86	5.232	5.76	0.00	1.200	1.860	1.00	3.310	3.97	22.9	86.0	257.4
17.00		1.00	0.87	5.299	5.83	0.00	1.200	1.872	1.00	3.312	3.97	23.2	86.6	258.0
18.00		1.00	0.88	5.363	5.90	0.00	1.200	1.882	1.00	3.314	3.98	23.5	87.1	258.5
19.00		1.00	0.89	5.425	5.97	0.00	1.200	1.893	1.00	3.315	3.98	23.7	87.6	259.0
20.00	Top - Section 1	1.00	0.90	5.483	6.03	0.00	1.200	1.902	1.00	3.317	3.98	24.0	88.1	259.5
21.00		1.00	0.91	5.540	6.09	0.00	1.200	1.912	1.00	2.819	3.38	20.6	74.5	217.0
22.00		1.00	0.92	5.595	6.15	0.00	1.200	1.921	1.00	2.820	3.38	20.8	74.9	217.4
23.00		1.00	0.93	5.647	6.21	0.00	1.200	1.929	1.00	2.822	3.39	21.0	75.3	217.8
24.00		1.00	0.94	5.698	6.27	0.00	1.200	1.937	1.00	2.823	3.39	21.2	75.6	218.1
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.945	1.00	2.824	3.39	21.4	75.9	218.4
26.00		1.00	0.95	5.795	6.37	0.00	1.200	1.953	1.00	2.825	3.39	21.6	76.2	218.7
27.00		1.00	0.96	5.841	6.43	0.00	1.200	1.960	1.00	2.827	3.39	21.8	76.5	219.1
28.00		1.00	0.97	5.886	6.47	0.00	1.200	1.967	1.00	2.828	3.39	22.0	76.8	219.4
29.00		1.00	0.98	5.930	6.52	0.00	1.200	1.974	1.00	2.829	3.39	22.1	77.1	219.6
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.981	1.00	2.830	3.40	22.3	77.4	219.9
31.00		1.00	0.99	6.013	6.61	0.00	1.200	1.988	1.00	2.831	3.40	22.5	77.7	220.2
32.00		1.00	1.00	6.054	6.66	0.00	1.200	1.994	1.00	2.832	3.40	22.6	77.9	220.4
33.00		1.00	1.00	6.093	6.70	0.00	1.200	2.000	1.00	2.833	3.40	22.8	78.2	220.7
34.00		1.00	1.01	6.132	6.74	0.00	1.200	2.006	1.00	2.834	3.40	22.9	78.4	221.0
35.00		1.00	1.01	6.169	6.79	0.00	1.200	2.012	1.00	2.835	3.40	23.1	78.7	221.2
36.00		1.00	1.02	6.206	6.83	0.00	1.200	2.017	1.00	2.836	3.40	23.2	78.9	221.4
37.00		1.00	1.03	6.242	6.87	0.00	1.200	2.023	1.00	2.837	3.40	23.4	79.1	221.7
38.00		1.00	1.03	6.277	6.90	0.00	1.200	2.028	1.00	2.838	3.41	23.5	79.4	221.9
39.00		1.00	1.04	6.311	6.94	0.00	1.200	2.034	1.00	2.839	3.41	23.7	79.6	222.1
40.00		1.00	1.04	6.345	6.98	0.00	1.200	2.039	1.00	2.840	3.41	23.8	79.8	222.3
41.00		1.00	1.05	6.378	7.02	0.00	1.200	2.044	1.00	2.841	3.41	23.9	80.0	222.5
42.00		1.00	1.05	6.410	7.05	0.00	1.200	2.049	1.00	2.841	3.41	24.0	80.2	222.7
43.00		1.00	1.06	6.442	7.09	0.00	1.200	2.054	1.00	2.842	3.41	24.2	80.4	222.9
44.00		1.00	1.06	6.474	7.12	0.00	1.200	2.058	1.00	2.843	3.41	24.3	80.6	223.1
45.00		1.00	1.07	6.504	7.15	0.00	1.200	2.063	1.00	2.844	3.41	24.4	80.8	223.3
46.00		1.00	1.07	6.534	7.19	0.00	1.200	2.068	1.00	2.845	3.41	24.5	81.0	223.5

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	6.564	7.22	0.00	1.200	2.072	1.00	2.845	3.41	24.7	81.2	223.7
48.00	1.00	1.08	6.593	7.25	0.00	1.200	2.076	1.00	2.846	3.42	24.8	81.4	223.9
49.00	1.00	1.09	6.622	7.28	0.00	1.200	2.081	1.00	2.847	3.42	24.9	81.5	224.1
50.00 Top - Section 2	1.00	1.09	6.650	7.32	0.00	1.200	2.085	1.00	2.847	3.42	25.0	81.7	224.2
51.00	1.00	1.10	6.678	7.35	0.00	1.200	2.089	1.00	2.348	2.82	20.7	66.6	180.2
52.00	1.00	1.10	6.705	7.38	0.00	1.200	2.093	1.00	2.349	2.82	20.8	66.7	180.4
53.00	1.00	1.11	6.732	7.41	0.00	1.200	2.097	1.00	2.350	2.82	20.9	66.9	180.5
54.00	1.00	1.11	6.759	7.43	0.00	1.200	2.101	1.00	2.350	2.82	21.0	67.0	180.6
55.00	1.00	1.12	6.785	7.46	0.00	1.200	2.105	1.00	2.351	2.82	21.1	67.1	180.8
56.00	1.00	1.12	6.811	7.49	0.00	1.200	2.109	1.00	2.351	2.82	21.1	67.3	180.9
57.00	1.00	1.12	6.836	7.52	0.00	1.200	2.112	1.00	2.352	2.82	21.2	67.4	181.0
58.00	1.00	1.13	6.861	7.55	0.00	1.200	2.116	1.00	2.353	2.82	21.3	67.5	181.2
59.00	1.00	1.13	6.886	7.57	0.00	1.200	2.120	1.00	2.353	2.82	21.4	67.6	181.3
60.00	1.00	1.14	6.910	7.60	0.00	1.200	2.123	1.00	2.354	2.82	21.5	67.8	181.4
61.00	1.00	1.14	6.934	7.63	0.00	1.200	2.127	1.00	2.354	2.83	21.6	67.9	181.5
62.00	1.00	1.14	6.958	7.65	0.00	1.200	2.130	1.00	2.355	2.83	21.6	68.0	181.7
63.00	1.00	1.15	6.982	7.68	0.00	1.200	2.134	1.00	2.356	2.83	21.7	68.1	181.8
64.00	1.00	1.15	7.005	7.71	0.00	1.200	2.137	1.00	2.356	2.83	21.8	68.2	181.9
65.00	1.00	1.16	7.028	7.73	0.00	1.200	2.140	1.00	2.357	2.83	21.9	68.4	182.0
66.00	1.00	1.16	7.050	7.76	0.00	1.200	2.144	1.00	2.357	2.83	21.9	68.5	182.1
67.00	1.00	1.16	7.073	7.78	0.00	1.200	2.147	1.00	2.358	2.83	22.0	68.6	182.2
68.00	1.00	1.17	7.095	7.80	0.00	1.200	2.150	1.00	2.358	2.83	22.1	68.7	182.3
69.00	1.00	1.17	7.117	7.83	0.00	1.200	2.153	1.00	2.359	2.83	22.2	68.8	182.4
70.00	1.00	1.17	7.138	7.85	0.00	1.200	2.156	1.00	2.359	2.83	22.2	68.9	182.6
71.00	1.00	1.18	7.160	7.88	0.00	1.200	2.159	1.00	2.360	2.83	22.3	69.0	182.7
72.00	1.00	1.18	7.181	7.90	0.00	1.200	2.162	1.00	2.360	2.83	22.4	69.1	182.8
73.00	1.00	1.18	7.202	7.92	0.00	1.200	2.165	1.00	2.361	2.83	22.4	69.2	182.9
74.00	1.00	1.19	7.222	7.94	0.00	1.200	2.168	1.00	2.361	2.83	22.5	69.3	183.0
75.00 Appurtenance(s)	1.00	1.19	7.243	7.97	0.00	1.200	2.171	1.00	2.362	2.83	22.6	69.4	183.1
76.00	1.00	1.19	7.263	7.99	0.00	1.200	2.174	1.00	2.362	2.83	22.6	69.5	183.2
77.00	1.00	1.20	7.283	8.01	0.00	1.200	2.177	1.00	2.363	2.84	22.7	69.6	183.3
78.00	1.00	1.20	7.303	8.03	0.00	1.200	2.180	1.00	2.363	2.84	22.8	69.7	183.4
79.00	1.00	1.20	7.322	8.05	0.00	1.200	2.182	1.00	2.364	2.84	22.8	69.8	183.5
80.00 Top - Section 3	1.00	1.21	7.342	8.08	0.00	1.200	2.185	1.00	2.364	2.84	22.9	69.9	183.6
81.00	1.00	1.21	7.361	8.10	0.00	1.200	2.188	1.00	2.365	2.84	23.0	70.0	183.7
82.00	1.00	1.21	7.380	8.12	0.00	1.200	2.191	1.00	2.365	2.84	23.0	70.1	183.7
83.00	1.00	1.22	7.399	8.14	0.00	1.200	2.193	1.00	2.366	2.84	23.1	70.2	183.8
84.00	1.00	1.22	7.418	8.16	0.00	1.200	2.196	1.00	2.366	2.84	23.2	70.3	183.9
85.00	1.00	1.22	7.436	8.18	0.00	1.200	2.198	1.00	2.366	2.84	23.2	70.4	184.0
86.00	1.00	1.23	7.454	8.20	0.00	1.200	2.201	1.00	2.367	2.84	23.3	70.5	184.1
87.00	1.00	1.23	7.473	8.22	0.00	1.200	2.204	1.00	2.367	2.84	23.4	70.5	184.2
88.00	1.00	1.23	7.491	8.24	0.00	1.200	2.206	1.00	2.368	2.84	23.4	70.6	184.3
89.00	1.00	1.23	7.508	8.26	0.00	1.200	2.209	1.00	2.368	2.84	23.5	70.7	184.4
90.00	1.00	1.24	7.526	8.28	0.00	1.200	2.211	1.00	2.369	2.84	23.5	70.8	184.5
91.00	1.00	1.24	7.544	8.30	0.00	1.200	2.214	1.00	2.369	2.84	23.6	70.9	184.5
92.00	1.00	1.24	7.561	8.32	0.00	1.200	2.216	1.00	2.369	2.84	23.6	71.0	184.6
93.00	1.00	1.25	7.578	8.34	0.00	1.200	2.218	1.00	2.370	2.84	23.7	71.1	184.7
94.00	1.00	1.25	7.595	8.35	0.00	1.200	2.221	1.00	2.370	2.84	23.8	71.1	184.8
95.00	1.00	1.25	7.612	8.37	0.00	1.200	2.223	1.00	2.371	2.84	23.8	71.2	184.9
96.00	1.00	1.25	7.629	8.39	0.00	1.200	2.225	1.00	2.371	2.85	23.9	71.3	185.0
97.00	1.00	1.26	7.646	8.41	0.00	1.200	2.228	1.00	2.371	2.85	23.9	71.4	185.0
98.00	1.00	1.26	7.662	8.43	0.00	1.200	2.230	1.00	2.372	2.85	24.0	71.5	185.1
99.00	1.00	1.26	7.679	8.45	0.00	1.200	2.232	1.00	2.372	2.85	24.0	71.5	185.2
100.00	1.00	1.27	7.695	8.46	0.00	1.200	2.234	1.00	2.372	2.85	24.1	71.6	185.3
101.00	1.00	1.27	7.711	8.48	0.00	1.200	2.237	1.00	2.373	2.85	24.2	71.7	185.3
102.00	1.00	1.27	7.727	8.50	0.00	1.200	2.239	1.00	2.373	2.85	24.2	71.8	185.4
103.00	1.00	1.27	7.743	8.52	0.00	1.200	2.241	1.00	2.374	2.85	24.3	71.8	185.5

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	7.759	8.53	0.00	1.200	2.243	1.00	2.374	2.85	24.3	71.9	185.6
105.00	1.00	1.28	7.774	8.55	0.00	1.200	2.245	1.00	2.374	2.85	24.4	72.0	185.6
106.00	1.00	1.28	7.790	8.57	0.00	1.200	2.248	1.00	2.375	2.85	24.4	72.1	185.7
107.00	1.00	1.28	7.805	8.59	0.00	1.200	2.250	1.00	2.375	2.85	24.5	72.1	185.8
108.00 Top - Section 4	1.00	1.29	7.821	8.60	0.00	1.200	2.252	1.00	2.375	2.85	24.5	72.2	185.9
109.00	1.00	1.29	7.836	8.62	0.00	1.200	2.254	1.00	3.000	3.60	31.0	122.0	247.2
110.00 Top - Section 5 RB1	1.00	1.29	7.851	8.64	0.00	1.200	2.256	1.00	3.000	3.60	31.1	122.1	247.2
111.00	1.00	1.29	7.866	8.65	0.00	1.200	2.258	1.00	3.000	3.60	31.1	74.5	159.8
111.50 RT1	1.00	1.29	7.873	8.66	0.00	1.200	2.259	0.50	1.500	1.80	15.6	37.3	79.9
112.00	1.00	1.30	7.881	8.67	0.00	1.200	2.260	0.50	1.500	1.80	15.6	37.3	79.9
113.00	1.00	1.30	7.896	8.69	0.00	1.200	2.262	1.00	3.000	3.60	31.3	74.6	159.9
114.00	1.00	1.30	7.910	8.70	0.00	1.200	2.264	1.00	3.000	3.60	31.3	74.6	159.9
115.00 Appurtenance(s)	1.00	1.30	7.925	8.72	0.00	1.200	2.266	1.00	3.000	3.60	31.4	74.6	159.9
116.00	1.00	1.31	7.939	8.73	0.00	1.200	2.268	1.00	3.000	3.60	31.4	74.7	160.0
117.00	1.00	1.31	7.954	8.75	0.00	1.200	2.270	1.00	3.000	3.60	31.5	74.7	160.0
118.00	1.00	1.31	7.968	8.76	0.00	1.200	2.272	1.00	3.000	3.60	31.6	74.7	160.0
119.00	1.00	1.31	7.982	8.78	0.00	1.200	2.274	1.00	3.000	3.60	31.6	74.8	160.0
120.00 Appurtenance(s)	1.00	1.32	7.996	8.80	0.00	1.200	2.276	1.00	3.000	3.60	31.7	74.8	160.1
121.00	1.00	1.32	8.010	8.81	0.00	1.200	2.277	1.00	3.000	3.60	31.7	74.8	160.1
122.00	1.00	1.32	8.024	8.83	0.00	1.200	2.279	1.00	3.000	3.60	31.8	74.8	160.1
123.00	1.00	1.32	8.038	8.84	0.00	1.200	2.281	1.00	3.000	3.60	31.8	74.9	160.1
124.00	1.00	1.32	8.051	8.86	0.00	1.200	2.283	1.00	3.000	3.60	31.9	74.9	160.2
125.00	1.00	1.33	8.065	8.87	0.00	1.200	2.285	1.00	3.000	3.60	31.9	74.9	160.2
126.00	1.00	1.33	8.079	8.89	0.00	1.200	2.287	1.00	3.000	3.60	32.0	74.9	160.2
127.00 Appurtenance(s)	1.00	1.33	8.092	8.90	0.00	1.200	2.289	1.00	3.000	3.60	32.0	75.0	160.2
128.00	1.00	1.33	8.105	8.92	0.00	1.200	2.290	1.00	3.000	3.60	32.1	75.0	160.3
129.00	1.00	1.34	8.119	8.93	0.00	1.200	2.292	1.00	3.000	3.60	32.2	75.0	160.3
130.00 Top - Section 6	1.00	1.34	8.132	8.95	0.00	1.200	2.294	1.00	3.000	3.60	32.2	75.0	160.3
131.00	1.00	1.34	8.145	8.96	0.00	1.200	2.296	1.00	3.000	3.60	32.3	74.7	120.5
132.00	1.00	1.34	8.158	8.97	0.00	1.200	2.297	1.00	3.000	3.60	32.3	74.7	120.6
133.00	1.00	1.34	8.171	8.99	0.00	1.200	2.299	1.00	3.000	3.60	32.4	74.8	120.6
134.00	1.00	1.35	8.184	9.00	0.00	1.200	2.301	1.00	3.000	3.60	32.4	74.8	120.6
135.00 Appurtenance(s)	1.00	1.35	8.197	9.02	0.00	1.200	2.303	1.00	3.000	3.60	32.5	74.8	120.6
136.00	1.00	1.35	8.210	9.03	0.00	1.200	2.304	1.00	3.000	3.60	32.5	74.8	120.7
137.00	1.00	1.35	8.222	9.04	0.00	1.200	2.306	1.00	3.000	3.60	32.6	74.9	120.7
138.00	1.00	1.35	8.235	9.06	0.00	1.200	2.308	1.00	3.000	3.60	32.6	74.9	120.7
139.00	1.00	1.36	8.247	9.07	0.00	1.200	2.309	1.00	3.000	3.60	32.7	74.9	120.7
140.00 Appurtenance(s)	1.00	1.36	8.260	9.09	0.00	1.200	2.311	1.00	3.000	3.60	32.7	74.9	120.8
141.00	1.00	1.36	8.272	9.10	0.00	1.200	2.313	1.00	3.000	3.60	32.8	74.9	120.8
142.00	1.00	1.36	8.285	9.11	0.00	1.200	2.314	1.00	3.000	3.60	32.8	75.0	120.8
143.00	1.00	1.36	8.297	9.13	0.00	1.200	2.316	1.00	3.000	3.60	32.9	75.0	120.8
144.00	1.00	1.37	8.309	9.14	0.00	1.200	2.317	1.00	3.000	3.60	32.9	75.0	120.8
145.00	1.00	1.37	8.321	9.15	0.00	1.200	2.319	1.00	3.000	3.60	33.0	75.0	120.9
146.00	1.00	1.37	8.333	9.17	0.00	1.200	2.321	1.00	3.000	3.60	33.0	75.1	120.9
147.00	1.00	1.37	8.345	9.18	0.00	1.200	2.322	1.00	3.000	3.60	33.0	75.1	120.9
148.00	1.00	1.37	8.357	9.19	0.00	1.200	2.324	1.00	3.000	3.60	33.1	75.1	120.9
149.00	1.00	1.38	8.369	9.21	0.00	1.200	2.325	1.00	3.000	3.60	33.1	75.1	121.0
150.00 Appurtenance(s)	1.00	1.38	8.381	9.22	0.00	1.200	2.327	1.00	3.000	3.60	33.2	75.1	121.0
Totals:								150.00			3,816.5		28,418.0

Discrete Appurtenance Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	Truck Ball	1	8.387	9.225	1.00	1.00	1.54	0.53	0.000	0.500	14.22	0.00	7.11
2	150.00	36" Canister Weight	1	8.381	9.219	1.00	1.00	0.00	103.92	0.000	0.000	0.00	0.00	0.00
3	140.00	Flag	1	8.260	9.086	1.00	1.00	6.07	2.69	0.000	0.000	55.19	0.00	0.00
4	140.00	36" Canister Weight	1	8.260	9.086	1.00	1.00	0.00	388.56	0.000	0.000	0.00	0.00	0.00
5	135.00	Flush Mount	1	8.197	9.016	0.00	1.00	0.00	-367.37	0.000	0.000	0.00	0.00	0.00
6	135.00	DB-T1-6Z-8AB-0Z	2	8.197	9.016	0.00	1.00	11.96	446.61	0.000	0.000	107.79	0.00	0.00
7	135.00	FDL85002/1C-3L	6	8.197	9.016	0.00	1.00	0.00	125.32	0.000	0.000	0.00	0.00	0.00
8	135.00	SBNHH-1D65A	3	8.197	9.016	0.00	1.00	22.01	788.37	0.000	0.000	198.43	0.00	0.00
9	130.00	36" Canister Weight	1	8.132	8.945	1.00	1.00	0.00	387.79	0.000	0.000	0.00	0.00	0.00
10	127.00	Flush Mount	1	8.092	8.901	0.00	1.00	0.00	-367.54	0.000	0.000	0.00	0.00	0.00
11	127.00	ATSBT-TOP-FM	3	8.092	8.901	0.00	1.00	0.00	24.35	0.000	0.000	0.00	0.00	0.00
12	127.00	CBC426T-DS-43	6	8.092	8.901	0.00	1.00	0.00	183.15	0.000	0.000	0.00	0.00	0.00
13	127.00	D2WC-21 (2LB+4MB)	3	8.092	8.901	0.00	1.00	19.16	700.24	0.000	0.000	170.55	0.00	0.00
14	120.00	36" Canister Weight	1	7.996	8.796	1.00	1.00	0.00	386.96	0.000	0.000	0.00	0.00	0.00
15	115.00	Flush Mount	1	7.925	8.717	0.00	1.00	0.00	-367.81	0.000	0.000	0.00	0.00	0.00
16	115.00	LGP21401	6	7.925	8.717	0.00	1.00	0.00	253.69	0.000	0.000	0.00	0.00	0.00
17	115.00	7770.00	3	7.925	8.717	0.00	1.00	20.73	688.78	0.000	0.000	180.71	0.00	0.00
18	110.00	36" Canister Weight	1	7.851	8.636	1.00	1.00	0.00	52.68	0.000	0.000	0.00	0.00	0.00
19	108.00	36" Canister Weight	1	7.821	8.603	1.00	1.00	0.00	-110.73	0.000	0.000	0.00	0.00	0.00
20	75.00	GPS	1	7.243	7.967	0.80	0.80	1.51	40.47	0.000	0.000	12.02	0.00	0.00

Totals: 3,360.66

738.91

Total Applied Force Summary

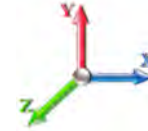
Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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		22.07	263.34	0.00	0.00
2.00		22.18	268.15	0.00	0.00
3.00		22.25	271.14	0.00	0.00
4.00		22.31	273.34	0.00	0.00
5.00		22.35	275.09	0.00	0.00
6.00		22.38	276.56	0.00	0.00
7.00		22.41	277.82	0.00	0.00
8.00		22.44	278.93	0.00	0.00
9.00		22.46	279.92	0.00	0.00
10.00		22.48	280.82	0.00	0.00
11.00		22.50	281.64	0.00	0.00
12.00		22.52	282.40	0.00	0.00
13.00		22.54	283.10	0.00	0.00
14.00		22.55	283.76	0.00	0.00
15.00		22.57	284.37	0.00	0.00
16.00		22.86	284.95	0.00	0.00
17.00		23.17	285.50	0.00	0.00
18.00		23.46	286.02	0.00	0.00
19.00		23.74	286.52	0.00	0.00
20.00		24.01	286.99	0.00	0.00
21.00		20.61	244.57	0.00	0.00
22.00		20.83	244.94	0.00	0.00
23.00		21.03	245.29	0.00	0.00
24.00		21.23	245.63	0.00	0.00
25.00		21.43	245.96	0.00	0.00
26.00		21.61	246.28	0.00	0.00
27.00		21.79	246.58	0.00	0.00
28.00		21.97	246.88	0.00	0.00
29.00		22.14	247.17	0.00	0.00
30.00		22.31	247.44	0.00	0.00
31.00		22.47	247.71	0.00	0.00
32.00		22.63	247.98	0.00	0.00
33.00		22.79	248.23	0.00	0.00
34.00		22.94	248.48	0.00	0.00
35.00		23.09	248.72	0.00	0.00
36.00		23.23	248.96	0.00	0.00
37.00		23.38	249.19	0.00	0.00
38.00		23.51	249.41	0.00	0.00
39.00		23.65	249.63	0.00	0.00
40.00		23.78	249.85	0.00	0.00
41.00		23.92	250.06	0.00	0.00
42.00		24.04	250.26	0.00	0.00
43.00		24.17	250.46	0.00	0.00
44.00		24.29	250.66	0.00	0.00
45.00		24.42	250.85	0.00	0.00
46.00		24.54	251.04	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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		24.65	251.23	0.00	0.00
48.00		24.77	251.41	0.00	0.00
49.00		24.88	251.59	0.00	0.00
50.00		25.00	251.77	0.00	0.00
51.00		20.70	207.76	0.00	0.00
52.00		20.79	207.90	0.00	0.00
53.00		20.88	208.04	0.00	0.00
54.00		20.97	208.17	0.00	0.00
55.00		21.05	208.31	0.00	0.00
56.00		21.14	208.44	0.00	0.00
57.00		21.22	208.57	0.00	0.00
58.00		21.31	208.69	0.00	0.00
59.00		21.39	208.82	0.00	0.00
60.00		21.47	208.94	0.00	0.00
61.00		21.55	209.06	0.00	0.00
62.00		21.63	209.18	0.00	0.00
63.00		21.71	209.30	0.00	0.00
64.00		21.79	209.42	0.00	0.00
65.00		21.86	209.53	0.00	0.00
66.00		21.94	209.64	0.00	0.00
67.00		22.01	209.75	0.00	0.00
68.00		22.09	209.86	0.00	0.00
69.00		22.16	209.97	0.00	0.00
70.00		22.23	210.08	0.00	0.00
71.00		22.30	210.19	0.00	0.00
72.00		22.37	210.29	0.00	0.00
73.00		22.44	210.39	0.00	0.00
74.00		22.51	210.50	0.00	0.00
75.00	(1) attachments	34.60	251.07	0.00	0.00
76.00		22.65	210.50	0.00	0.00
77.00		22.71	210.60	0.00	0.00
78.00		22.78	210.70	0.00	0.00
79.00		22.85	210.80	0.00	0.00
80.00		22.91	210.89	0.00	0.00
81.00		22.98	210.99	0.00	0.00
82.00		23.04	211.08	0.00	0.00
83.00		23.10	211.17	0.00	0.00
84.00		23.17	211.26	0.00	0.00
85.00		23.23	211.35	0.00	0.00
86.00		23.29	211.44	0.00	0.00
87.00		23.35	211.53	0.00	0.00
88.00		23.41	211.62	0.00	0.00
89.00		23.47	211.70	0.00	0.00
90.00		23.53	211.79	0.00	0.00
91.00		23.59	211.88	0.00	0.00
92.00		23.65	211.96	0.00	0.00
93.00		23.71	212.04	0.00	0.00
94.00		23.76	212.13	0.00	0.00
95.00		23.82	212.21	0.00	0.00
96.00		23.88	212.29	0.00	0.00
97.00		23.93	212.37	0.00	0.00
98.00		23.99	212.45	0.00	0.00
99.00		24.04	212.53	0.00	0.00
100.00		24.10	212.60	0.00	0.00
101.00		24.15	212.68	0.00	0.00
102.00		24.21	212.76	0.00	0.00
103.00		24.26	212.83	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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		24.31	212.91	0.00	0.00
105.00		24.36	212.98	0.00	0.00
106.00		24.42	213.06	0.00	0.00
107.00		24.47	213.13	0.00	0.00
108.00	(1) attachments	24.52	102.48	0.00	0.00
109.00		31.03	274.49	0.00	0.00
110.00	(1) attachments	31.09	327.23	0.00	0.00
111.00		31.15	187.16	0.00	0.00
111.50		15.59	93.59	0.00	0.00
112.00		15.60	93.59	0.00	0.00
113.00		31.27	187.21	0.00	0.00
114.00		31.32	187.24	0.00	0.00
115.00	(10) attachments	212.09	761.92	0.00	0.00
116.00		31.44	180.24	0.00	0.00
117.00		31.50	180.26	0.00	0.00
118.00		31.55	180.29	0.00	0.00
119.00		31.61	180.32	0.00	0.00
120.00	(1) attachments	31.66	567.31	0.00	0.00
121.00		31.72	180.37	0.00	0.00
122.00		31.77	180.40	0.00	0.00
123.00		31.83	180.42	0.00	0.00
124.00		31.88	180.45	0.00	0.00
125.00		31.94	180.47	0.00	0.00
126.00		31.99	180.50	0.00	0.00
127.00	(13) attachments	202.60	720.73	0.00	0.00
128.00		32.10	169.82	0.00	0.00
129.00		32.15	169.84	0.00	0.00
130.00	(1) attachments	32.20	557.66	0.00	0.00
131.00		32.25	130.10	0.00	0.00
132.00		32.31	130.13	0.00	0.00
133.00		32.36	130.15	0.00	0.00
134.00		32.41	130.17	0.00	0.00
135.00	(12) attachments	338.68	1123.12	0.00	0.00
136.00		32.51	120.67	0.00	0.00
137.00		32.56	120.69	0.00	0.00
138.00		32.61	120.71	0.00	0.00
139.00		32.66	120.74	0.00	0.00
140.00	(2) attachments	87.90	512.01	0.00	0.00
141.00		32.76	120.78	0.00	0.00
142.00		32.81	120.80	0.00	0.00
143.00		32.86	120.83	0.00	0.00
144.00		32.90	120.85	0.00	0.00
145.00		32.95	120.87	0.00	0.00
146.00		33.00	120.89	0.00	0.00
147.00		33.05	120.91	0.00	0.00
148.00		33.09	120.94	0.00	0.00
149.00		33.14	120.96	0.00	0.00
150.00	(2) attachments	47.41	225.43	0.00	7.11
	Totals:	4,555.42	35,256.47	0.00	7.11

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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

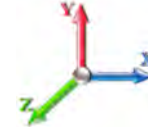


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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	-35.26	-4.56	0.00	-455.38	0.00	455.38	1490.10	745.05	2187.51	1339.68	0.00	0.000	0.000	0.364
1.00	-34.99	-4.55	0.00	-450.82	0.00	450.82	1490.10	745.05	2187.51	1339.68	0.00	-0.019	0.000	0.360
2.00	-34.72	-4.54	0.00	-446.27	0.00	446.27	1490.10	745.05	2187.51	1339.68	0.01	-0.038	0.000	0.356
3.00	-34.45	-4.53	0.00	-441.73	0.00	441.73	1490.10	745.05	2187.51	1339.68	0.02	-0.057	0.000	0.353
4.00	-34.17	-4.52	0.00	-437.20	0.00	437.20	1490.10	745.05	2187.51	1339.68	0.03	-0.076	0.000	0.349
5.00	-33.90	-4.51	0.00	-432.68	0.00	432.68	1490.10	745.05	2187.51	1339.68	0.05	-0.095	0.000	0.346
6.00	-33.62	-4.49	0.00	-428.17	0.00	428.17	1490.10	745.05	2187.51	1339.68	0.07	-0.113	0.000	0.342
7.00	-33.34	-4.48	0.00	-423.68	0.00	423.68	1490.10	745.05	2187.51	1339.68	0.10	-0.131	0.000	0.339
8.00	-33.06	-4.47	0.00	-419.20	0.00	419.20	1490.10	745.05	2187.51	1339.68	0.13	-0.149	0.000	0.335
9.00	-32.78	-4.45	0.00	-414.73	0.00	414.73	1490.10	745.05	2187.51	1339.68	0.16	-0.167	0.000	0.332
10.00	-32.50	-4.44	0.00	-410.28	0.00	410.28	1490.10	745.05	2187.51	1339.68	0.20	-0.185	0.000	0.328
11.00	-32.21	-4.43	0.00	-405.84	0.00	405.84	1490.10	745.05	2187.51	1339.68	0.24	-0.202	0.000	0.325
12.00	-31.93	-4.41	0.00	-401.41	0.00	401.41	1490.10	745.05	2187.51	1339.68	0.28	-0.219	0.000	0.321
13.00	-31.65	-4.40	0.00	-396.99	0.00	396.99	1490.10	745.05	2187.51	1339.68	0.33	-0.236	0.000	0.318
14.00	-31.36	-4.38	0.00	-392.60	0.00	392.60	1490.10	745.05	2187.51	1339.68	0.38	-0.253	0.000	0.314
15.00	-31.08	-4.37	0.00	-388.21	0.00	388.21	1490.10	745.05	2187.51	1339.68	0.44	-0.270	0.000	0.311
16.00	-30.79	-4.35	0.00	-383.84	0.00	383.84	1490.10	745.05	2187.51	1339.68	0.50	-0.286	0.000	0.307
17.00	-30.50	-4.34	0.00	-379.49	0.00	379.49	1490.10	745.05	2187.51	1339.68	0.56	-0.303	0.000	0.304
18.00	-30.22	-4.32	0.00	-375.15	0.00	375.15	1490.10	745.05	2187.51	1339.68	0.62	-0.319	0.000	0.300
19.00	-29.93	-4.30	0.00	-370.83	0.00	370.83	1490.10	745.05	2187.51	1339.68	0.69	-0.335	0.000	0.297
20.00	-29.64	-4.29	0.00	-366.52	0.00	366.52	1490.10	745.05	2187.51	1339.68	0.76	-0.351	0.000	0.294
20.00	-29.64	-4.29	0.00	-366.52	0.00	366.52	1311.06	655.53	1597.15	948.43	0.76	-0.351	0.000	0.409
21.00	-29.39	-4.28	0.00	-362.23	0.00	362.23	1311.06	655.53	1597.15	948.43	0.84	-0.366	0.000	0.404
22.00	-29.15	-4.27	0.00	-357.96	0.00	357.96	1311.06	655.53	1597.15	948.43	0.92	-0.393	0.000	0.400
23.00	-28.90	-4.26	0.00	-353.69	0.00	353.69	1311.06	655.53	1597.15	948.43	1.00	-0.419	0.000	0.395
24.00	-28.65	-4.25	0.00	-349.43	0.00	349.43	1311.06	655.53	1597.15	948.43	1.09	-0.445	0.000	0.390
25.00	-28.40	-4.24	0.00	-345.19	0.00	345.19	1311.06	655.53	1597.15	948.43	1.19	-0.471	0.000	0.386
26.00	-28.16	-4.23	0.00	-340.95	0.00	340.95	1311.06	655.53	1597.15	948.43	1.29	-0.497	0.000	0.381
27.00	-27.91	-4.21	0.00	-336.72	0.00	336.72	1311.06	655.53	1597.15	948.43	1.40	-0.522	0.000	0.376
28.00	-27.66	-4.20	0.00	-332.51	0.00	332.51	1311.06	655.53	1597.15	948.43	1.51	-0.547	0.000	0.372
29.00	-27.41	-4.19	0.00	-328.31	0.00	328.31	1311.06	655.53	1597.15	948.43	1.63	-0.571	0.000	0.367
30.00	-27.16	-4.18	0.00	-324.12	0.00	324.12	1311.06	655.53	1597.15	948.43	1.75	-0.595	0.000	0.363
31.00	-26.91	-4.16	0.00	-319.95	0.00	319.95	1311.06	655.53	1597.15	948.43	1.88	-0.619	0.000	0.358
32.00	-26.66	-4.15	0.00	-315.79	0.00	315.79	1311.06	655.53	1597.15	948.43	2.01	-0.643	0.000	0.353
33.00	-26.41	-4.13	0.00	-311.64	0.00	311.64	1311.06	655.53	1597.15	948.43	2.15	-0.666	0.000	0.349
34.00	-26.16	-4.12	0.00	-307.51	0.00	307.51	1311.06	655.53	1597.15	948.43	2.29	-0.689	0.000	0.344
35.00	-25.91	-4.10	0.00	-303.39	0.00	303.39	1311.06	655.53	1597.15	948.43	2.43	-0.712	0.000	0.340
36.00	-25.66	-4.08	0.00	-299.29	0.00	299.29	1311.06	655.53	1597.15	948.43	2.59	-0.734	0.000	0.335
37.00	-25.41	-4.07	0.00	-295.21	0.00	295.21	1311.06	655.53	1597.15	948.43	2.74	-0.756	0.000	0.331
38.00	-25.16	-4.05	0.00	-291.14	0.00	291.14	1311.06	655.53	1597.15	948.43	2.90	-0.778	0.000	0.326
39.00	-24.91	-4.03	0.00	-287.09	0.00	287.09	1311.06	655.53	1597.15	948.43	3.07	-0.800	0.000	0.322
40.00	-24.66	-4.01	0.00	-283.06	0.00	283.06	1311.06	655.53	1597.15	948.43	3.24	-0.821	0.000	0.317
41.00	-24.41	-3.99	0.00	-279.05	0.00	279.05	1311.06	655.53	1597.15	948.43	3.41	-0.842	0.000	0.313
42.00	-24.16	-3.98	0.00	-275.05	0.00	275.05	1311.06	655.53	1597.15	948.43	3.59	-0.862	0.000	0.308
43.00	-23.91	-3.96	0.00	-271.08	0.00	271.08	1311.06	655.53	1597.15	948.43	3.77	-0.882	0.000	0.304
44.00	-23.66	-3.94	0.00	-267.12	0.00	267.12	1311.06	655.53	1597.15	948.43	3.96	-0.902	0.000	0.300
45.00	-23.40	-3.92	0.00	-263.18	0.00	263.18	1311.06	655.53	1597.15	948.43	4.15	-0.922	0.000	0.295
46.00	-23.15	-3.89	0.00	-259.27	0.00	259.27	1311.06	655.53	1597.15	948.43	4.35	-0.941	0.000	0.291

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-22.90	-3.87	0.00	-255.37	0.00	255.37	1311.06	655.53	1597.15	948.43	4.55	-0.961	0.000	0.287
48.00	-22.65	-3.85	0.00	-251.50	0.00	251.50	1311.06	655.53	1597.15	948.43	4.75	-0.979	0.000	0.282
49.00	-22.40	-3.83	0.00	-247.65	0.00	247.65	1311.06	655.53	1597.15	948.43	4.96	-0.998	0.000	0.278
50.00	-22.14	-3.81	0.00	-243.82	0.00	243.82	1311.06	655.53	1597.15	948.43	5.17	-1.016	0.000	0.274
50.00	-22.14	-3.81	0.00	-243.82	0.00	243.82	1052.07	526.04	1018.84	624.04	5.17	-1.016	0.000	0.412
51.00	-21.93	-3.79	0.00	-240.01	0.00	240.01	1052.07	526.04	1018.84	624.04	5.38	-1.034	0.000	0.406
52.00	-21.72	-3.78	0.00	-236.22	0.00	236.22	1052.07	526.04	1018.84	624.04	5.60	-1.069	0.000	0.399
53.00	-21.51	-3.77	0.00	-232.44	0.00	232.44	1052.07	526.04	1018.84	624.04	5.83	-1.103	0.000	0.393
54.00	-21.30	-3.76	0.00	-228.67	0.00	228.67	1052.07	526.04	1018.84	624.04	6.06	-1.137	0.000	0.387
55.00	-21.09	-3.74	0.00	-224.91	0.00	224.91	1052.07	526.04	1018.84	624.04	6.31	-1.170	0.000	0.381
56.00	-20.88	-3.73	0.00	-221.17	0.00	221.17	1052.07	526.04	1018.84	624.04	6.55	-1.203	0.000	0.374
57.00	-20.67	-3.72	0.00	-217.44	0.00	217.44	1052.07	526.04	1018.84	624.04	6.81	-1.235	0.000	0.368
58.00	-20.46	-3.70	0.00	-213.72	0.00	213.72	1052.07	526.04	1018.84	624.04	7.07	-1.267	0.000	0.362
59.00	-20.25	-3.69	0.00	-210.02	0.00	210.02	1052.07	526.04	1018.84	624.04	7.34	-1.298	0.000	0.356
60.00	-20.04	-3.67	0.00	-206.33	0.00	206.33	1052.07	526.04	1018.84	624.04	7.62	-1.328	0.000	0.350
61.00	-19.83	-3.65	0.00	-202.66	0.00	202.66	1052.07	526.04	1018.84	624.04	7.90	-1.358	0.000	0.344
62.00	-19.62	-3.64	0.00	-199.01	0.00	199.01	1052.07	526.04	1018.84	624.04	8.18	-1.387	0.000	0.338
63.00	-19.41	-3.62	0.00	-195.37	0.00	195.37	1052.07	526.04	1018.84	624.04	8.48	-1.416	0.000	0.332
64.00	-19.20	-3.60	0.00	-191.75	0.00	191.75	1052.07	526.04	1018.84	624.04	8.78	-1.445	0.000	0.326
65.00	-18.99	-3.58	0.00	-188.15	0.00	188.15	1052.07	526.04	1018.84	624.04	9.08	-1.472	0.000	0.320
66.00	-18.78	-3.57	0.00	-184.56	0.00	184.56	1052.07	526.04	1018.84	624.04	9.40	-1.500	0.000	0.314
67.00	-18.57	-3.55	0.00	-181.00	0.00	181.00	1052.07	526.04	1018.84	624.04	9.71	-1.526	0.000	0.308
68.00	-18.36	-3.53	0.00	-177.45	0.00	177.45	1052.07	526.04	1018.84	624.04	10.03	-1.553	0.000	0.302
69.00	-18.15	-3.51	0.00	-173.92	0.00	173.92	1052.07	526.04	1018.84	624.04	10.36	-1.578	0.000	0.296
70.00	-17.94	-3.49	0.00	-170.41	0.00	170.41	1052.07	526.04	1018.84	624.04	10.70	-1.604	0.000	0.290
71.00	-17.73	-3.47	0.00	-166.92	0.00	166.92	1052.07	526.04	1018.84	624.04	11.03	-1.628	0.000	0.284
72.00	-17.52	-3.45	0.00	-163.46	0.00	163.46	1052.07	526.04	1018.84	624.04	11.38	-1.653	0.000	0.279
73.00	-17.30	-3.42	0.00	-160.01	0.00	160.01	1052.07	526.04	1018.84	624.04	11.73	-1.676	0.000	0.273
74.00	-17.09	-3.40	0.00	-156.59	0.00	156.59	1052.07	526.04	1018.84	624.04	12.08	-1.699	0.000	0.267
75.00	-16.84	-3.37	0.00	-153.18	0.00	153.18	1052.07	526.04	1018.84	624.04	12.44	-1.722	0.000	0.262
76.00	-16.63	-3.34	0.00	-149.82	0.00	149.82	1052.07	526.04	1018.84	624.04	12.80	-1.744	0.000	0.256
77.00	-16.42	-3.32	0.00	-146.47	0.00	146.47	1052.07	526.04	1018.84	624.04	13.17	-1.766	0.000	0.250
78.00	-16.21	-3.30	0.00	-143.15	0.00	143.15	1052.07	526.04	1018.84	624.04	13.54	-1.787	0.000	0.245
79.00	-16.00	-3.27	0.00	-139.85	0.00	139.85	1052.07	526.04	1018.84	624.04	13.92	-1.808	0.000	0.239
80.00	-15.79	-3.25	0.00	-136.58	0.00	136.58	1052.07	526.04	1018.84	624.04	14.30	-1.828	0.000	0.234
80.00	-15.79	-3.25	0.00	-136.58	0.00	136.58	1052.07	526.04	1018.84	624.04	14.30	-1.828	0.000	0.234
81.00	-15.58	-3.23	0.00	-133.33	0.00	133.33	1052.07	526.04	1018.84	624.04	14.68	-1.848	0.000	0.228
82.00	-15.36	-3.20	0.00	-130.10	0.00	130.10	1052.07	526.04	1018.84	624.04	15.07	-1.867	0.000	0.223
83.00	-15.15	-3.18	0.00	-126.90	0.00	126.90	1052.07	526.04	1018.84	624.04	15.47	-1.886	0.000	0.218
84.00	-14.94	-3.15	0.00	-123.72	0.00	123.72	1052.07	526.04	1018.84	624.04	15.86	-1.904	0.000	0.212
85.00	-14.73	-3.13	0.00	-120.57	0.00	120.57	1052.07	526.04	1018.84	624.04	16.26	-1.922	0.000	0.207
86.00	-14.52	-3.10	0.00	-117.45	0.00	117.45	1052.07	526.04	1018.84	624.04	16.67	-1.940	0.000	0.202
87.00	-14.31	-3.07	0.00	-114.35	0.00	114.35	1052.07	526.04	1018.84	624.04	17.08	-1.957	0.000	0.197
88.00	-14.10	-3.05	0.00	-111.27	0.00	111.27	1052.07	526.04	1018.84	624.04	17.49	-1.973	0.000	0.192
89.00	-13.88	-3.02	0.00	-108.23	0.00	108.23	1052.07	526.04	1018.84	624.04	17.90	-1.989	0.000	0.187
90.00	-13.67	-2.99	0.00	-105.21	0.00	105.21	1052.07	526.04	1018.84	624.04	18.32	-2.005	0.000	0.182
91.00	-13.46	-2.96	0.00	-102.22	0.00	102.22	1052.07	526.04	1018.84	624.04	18.74	-2.020	0.000	0.177
92.00	-13.25	-2.94	0.00	-99.25	0.00	99.25	1052.07	526.04	1018.84	624.04	19.17	-2.035	0.000	0.172
93.00	-13.04	-2.91	0.00	-96.31	0.00	96.31	1052.07	526.04	1018.84	624.04	19.59	-2.049	0.000	0.167
94.00	-12.82	-2.88	0.00	-93.41	0.00	93.41	1052.07	526.04	1018.84	624.04	20.02	-2.063	0.000	0.162
95.00	-12.61	-2.85	0.00	-90.53	0.00	90.53	1052.07	526.04	1018.84	624.04	20.46	-2.076	0.000	0.157
96.00	-12.40	-2.82	0.00	-87.67	0.00	87.67	1052.07	526.04	1018.84	624.04	20.89	-2.089	0.000	0.152
97.00	-12.19	-2.79	0.00	-84.85	0.00	84.85	1052.07	526.04	1018.84	624.04	21.33	-2.102	0.000	0.148
98.00	-11.98	-2.76	0.00	-82.06	0.00	82.06	1052.07	526.04	1018.84	624.04	21.77	-2.114	0.000	0.143
99.00	-11.77	-2.74	0.00	-79.29	0.00	79.29	1052.07	526.04	1018.84	624.04	22.22	-2.126	0.000	0.138
100.00	-11.55	-2.71	0.00	-76.56	0.00	76.56	1052.07	526.04	1018.84	624.04	22.67	-2.137	0.000	0.134
101.00	-11.34	-2.68	0.00	-73.85	0.00	73.85	1052.07	526.04	1018.84	624.04	23.11	-2.148	0.000	0.129

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-11.13	-2.65	0.00	-71.18	0.00	71.18	1052.07	526.04	1018.84	624.04	23.57	-2.159	0.000	0.125
103.00	-10.92	-2.62	0.00	-68.53	0.00	68.53	1052.07	526.04	1018.84	624.04	24.02	-2.169	0.000	0.120
104.00	-10.70	-2.58	0.00	-65.92	0.00	65.92	1052.07	526.04	1018.84	624.04	24.47	-2.179	0.000	0.116
105.00	-10.49	-2.55	0.00	-63.33	0.00	63.33	1052.07	526.04	1018.84	624.04	24.93	-2.189	0.000	0.111
106.00	-10.28	-2.52	0.00	-60.78	0.00	60.78	1052.07	526.04	1018.84	624.04	25.39	-2.198	0.000	0.107
107.00	-10.07	-2.49	0.00	-58.25	0.00	58.25	1052.07	526.04	1018.84	624.04	25.85	-2.206	0.000	0.103
108.00	-9.97	-2.46	0.00	-55.76	0.00	55.76	1052.07	526.04	1018.84	624.04	26.31	-2.215	0.000	0.099
108.00	-9.97	-2.46	0.00	-55.76	0.00	55.76	1052.07	526.04	1018.84	624.04	26.31	-2.215	0.000	0.099
109.00	-9.69	-2.42	0.00	-53.30	0.00	53.30	1052.07	526.04	1018.84	624.04	26.78	-2.223	0.000	0.095
110.00	-9.37	-2.38	0.00	-50.87	0.00	50.87	1052.07	526.04	1018.84	624.04	27.25	-2.230	0.000	0.057
110.00	-9.37	-2.38	0.00	-50.87	0.00	50.87	682.83	341.41	139.27	105.20	27.25	-2.230	0.000	0.018
111.00	-9.18	-2.35	0.00	-48.49	0.00	48.49	682.83	341.41	139.27	105.20	27.71	-2.235	0.000	0.131
111.50	-9.09	-2.33	0.00	-47.32	0.00	47.32	682.83	341.41	139.27	105.20	27.95	-2.259	0.000	0.128
111.50	-9.09	-2.33	0.00	-47.32	0.00	47.32	682.83	341.41	139.27	105.20	27.95	-2.259	0.000	0.128
112.00	-8.99	-2.33	0.00	-46.15	0.00	46.15	682.83	341.41	139.27	105.20	28.19	-2.283	0.000	0.452
113.00	-8.80	-2.31	0.00	-43.83	0.00	43.83	682.83	341.41	139.27	105.20	28.68	-2.454	0.000	0.430
114.00	-8.60	-2.30	0.00	-41.52	0.00	41.52	682.83	341.41	139.27	105.20	29.21	-2.617	0.000	0.407
115.00	-7.85	-2.07	0.00	-39.22	0.00	39.22	682.83	341.41	139.27	105.20	29.78	-2.770	0.000	0.384
116.00	-7.66	-2.05	0.00	-37.15	0.00	37.15	682.83	341.41	139.27	105.20	30.37	-2.916	0.000	0.364
117.00	-7.48	-2.03	0.00	-35.10	0.00	35.10	682.83	341.41	139.27	105.20	31.00	-3.053	0.000	0.345
118.00	-7.30	-2.00	0.00	-33.08	0.00	33.08	682.83	341.41	139.27	105.20	31.65	-3.183	0.000	0.325
119.00	-7.12	-1.97	0.00	-31.08	0.00	31.08	682.83	341.41	139.27	105.20	32.33	-3.305	0.000	0.306
120.00	-6.55	-1.92	0.00	-29.10	0.00	29.10	682.83	341.41	139.27	105.20	33.03	-3.420	0.000	0.286
121.00	-6.37	-1.89	0.00	-27.18	0.00	27.18	682.83	341.41	139.27	105.20	33.76	-3.527	0.000	0.268
122.00	-6.19	-1.86	0.00	-25.29	0.00	25.29	682.83	341.41	139.27	105.20	34.51	-3.627	0.000	0.250
123.00	-6.00	-1.82	0.00	-23.44	0.00	23.44	682.83	341.41	139.27	105.20	35.28	-3.720	0.000	0.232
124.00	-5.82	-1.79	0.00	-21.61	0.00	21.61	682.83	341.41	139.27	105.20	36.07	-3.805	0.000	0.214
125.00	-5.64	-1.75	0.00	-19.83	0.00	19.83	682.83	341.41	139.27	105.20	36.87	-3.884	0.000	0.197
126.00	-5.46	-1.71	0.00	-18.08	0.00	18.08	682.83	341.41	139.27	105.20	37.69	-3.957	0.000	0.180
127.00	-4.76	-1.47	0.00	-16.36	0.00	16.36	682.83	341.41	139.27	105.20	38.53	-4.022	0.000	0.163
128.00	-4.59	-1.43	0.00	-14.90	0.00	14.90	682.83	341.41	139.27	105.20	39.38	-4.082	0.000	0.148
129.00	-4.42	-1.39	0.00	-13.47	0.00	13.47	682.83	341.41	139.27	105.20	40.24	-4.136	0.000	0.135
130.00	-3.87	-1.32	0.00	-12.08	0.00	12.08	682.83	341.41	139.27	105.20	41.11	-4.184	0.000	0.121
130.00	-3.87	-1.32	0.00	-12.08	0.00	12.08	317.71	158.85	76.59	52.28	41.11	-4.184	0.000	0.243
131.00	-3.74	-1.28	0.00	-10.77	0.00	10.77	317.71	158.85	76.59	52.28	41.99	-4.228	0.000	0.218
132.00	-3.61	-1.24	0.00	-9.49	0.00	9.49	317.71	158.85	76.59	52.28	42.88	-4.299	0.000	0.193
133.00	-3.48	-1.20	0.00	-8.24	0.00	8.24	317.71	158.85	76.59	52.28	43.79	-4.362	0.000	0.169
134.00	-3.35	-1.16	0.00	-7.04	0.00	7.04	317.71	158.85	76.59	52.28	44.70	-4.416	0.000	0.145
135.00	-2.26	-0.74	0.00	-5.88	0.00	5.88	317.71	158.85	76.59	52.28	45.63	-4.461	0.000	0.120
136.00	-2.14	-0.70	0.00	-5.14	0.00	5.14	317.71	158.85	76.59	52.28	46.57	-4.500	0.000	0.105
137.00	-2.02	-0.66	0.00	-4.44	0.00	4.44	317.71	158.85	76.59	52.28	47.52	-4.534	0.000	0.091
138.00	-1.90	-0.62	0.00	-3.78	0.00	3.78	317.71	158.85	76.59	52.28	48.47	-4.563	0.000	0.078
139.00	-1.78	-0.58	0.00	-3.16	0.00	3.16	317.71	158.85	76.59	52.28	49.42	-4.587	0.000	0.066
140.00	-1.28	-0.45	0.00	-2.58	0.00	2.58	317.71	158.85	76.59	52.28	50.39	-4.608	0.000	0.053
141.00	-1.16	-0.41	0.00	-2.13	0.00	2.13	317.71	158.85	76.59	52.28	51.35	-4.624	0.000	0.045
142.00	-1.05	-0.36	0.00	-1.73	0.00	1.73	317.71	158.85	76.59	52.28	52.32	-4.638	0.000	0.036
143.00	-0.93	-0.32	0.00	-1.36	0.00	1.36	317.71	158.85	76.59	52.28	53.29	-4.649	0.000	0.029
144.00	-0.81	-0.28	0.00	-1.04	0.00	1.04	317.71	158.85	76.59	52.28	54.27	-4.657	0.000	0.022
145.00	-0.69	-0.24	0.00	-0.76	0.00	0.76	317.71	158.85	76.59	52.28	55.24	-4.664	0.000	0.017
146.00	-0.57	-0.19	0.00	-0.53	0.00	0.53	317.71	158.85	76.59	52.28	56.22	-4.668	0.000	0.012
147.00	-0.46	-0.15	0.00	-0.33	0.00	0.33	317.71	158.85	76.59	52.28	57.19	-4.671	0.000	0.008
148.00	-0.34	-0.11	0.00	-0.18	0.00	0.18	317.71	158.85	76.59	52.28	58.17	-4.673	0.000	0.005
149.00	-0.22	-0.07	0.00	-0.07	0.00	0.07	317.71	158.85	76.59	52.28	59.15	-4.674	0.000	0.002
150.00	0.00	-0.05	0.00	-0.01	0.00	0.01	317.71	158.85	76.59	52.28	60.13	-4.674	0.000	0.000

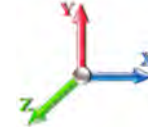
Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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 + 1.0E				Iterations 37
Gust Response Factor	1.10	Sds	0.19	Ss 0.18
Dead Load Factor	1.20	Seismic Load Factor	1.00	S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.33	SA 0.03
				Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
1.00		142.81	0.00	0.01	0.00	0.74	
2.00		142.81	0.00	0.01	0.01	1.35	
3.00		142.81	0.00	0.02	0.01	1.86	
4.00		142.81	0.00	0.03	0.01	2.28	
5.00		142.81	0.00	0.03	0.02	2.65	
6.00		142.81	0.00	0.04	0.02	2.95	
7.00		142.81	0.00	0.04	0.02	3.22	
8.00		142.81	0.01	0.05	0.03	3.45	
9.00		142.81	0.01	0.05	0.03	3.65	
10.00		142.81	0.01	0.05	0.03	3.82	
11.00		142.81	0.01	0.06	0.03	3.97	
12.00		142.81	0.01	0.06	0.03	4.10	
13.00		142.81	0.01	0.06	0.03	4.21	
14.00		142.81	0.02	0.06	0.04	4.31	
15.00		142.81	0.02	0.06	0.04	4.39	
16.00		142.81	0.02	0.06	0.04	4.47	
17.00		142.81	0.02	0.07	0.04	4.53	
18.00		142.81	0.03	0.07	0.04	4.59	
19.00		142.81	0.03	0.07	0.04	4.64	
20.00	Top - Section 1	142.81	0.03	0.07	0.04	4.69	
21.00		118.76	0.04	0.07	0.04	3.93	
22.00		118.76	0.04	0.07	0.04	3.96	
23.00		118.76	0.04	0.07	0.04	3.99	
24.00		118.76	0.05	0.07	0.04	4.01	
25.00		118.76	0.05	0.07	0.04	4.04	
26.00		118.76	0.06	0.07	0.04	4.06	
27.00		118.76	0.06	0.07	0.04	4.08	
28.00		118.76	0.07	0.07	0.04	4.10	
29.00		118.76	0.07	0.07	0.04	4.12	
30.00		118.76	0.08	0.07	0.04	4.14	
31.00		118.76	0.08	0.07	0.04	4.16	
32.00		118.76	0.09	0.07	0.04	4.18	
33.00		118.76	0.09	0.07	0.04	4.20	
34.00		118.76	0.10	0.07	0.04	4.22	
35.00		118.76	0.10	0.07	0.04	4.25	
36.00		118.76	0.11	0.07	0.04	4.27	
37.00		118.76	0.11	0.07	0.04	4.29	
38.00		118.76	0.12	0.07	0.03	4.31	
39.00		118.76	0.13	0.07	0.03	4.32	
40.00		118.76	0.13	0.07	0.03	4.34	
41.00		118.76	0.14	0.07	0.03	4.36	
42.00		118.76	0.15	0.07	0.03	4.38	
43.00		118.76	0.16	0.07	0.03	4.39	
44.00		118.76	0.16	0.07	0.03	4.40	
45.00		118.76	0.17	0.07	0.03	4.41	

Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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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Elev	Description	Topog	F1	F2	F3	F4
46.00		118.76	0.18	0.07	0.03	4.42
47.00		118.76	0.19	0.06	0.03	4.43
48.00		118.76	0.19	0.06	0.02	4.43
49.00		118.76	0.20	0.06	0.02	4.42
50.00	Top - Section 2	118.76	0.21	0.06	0.02	4.41
51.00		94.71	0.22	0.06	0.02	3.51
52.00		94.71	0.23	0.06	0.02	3.49
53.00		94.71	0.24	0.06	0.02	3.47
54.00		94.71	0.24	0.06	0.02	3.44
55.00		94.71	0.25	0.05	0.02	3.41
56.00		94.71	0.26	0.05	0.02	3.36
57.00		94.71	0.27	0.05	0.01	3.31
58.00		94.71	0.28	0.05	0.01	3.25
59.00		94.71	0.29	0.05	0.01	3.18
60.00		94.71	0.30	0.04	0.01	3.11
61.00		94.71	0.31	0.04	0.01	3.02
62.00		94.71	0.32	0.04	0.01	2.92
63.00		94.71	0.33	0.04	0.01	2.81
64.00		94.71	0.34	0.03	0.01	2.68
65.00		94.71	0.35	0.03	0.01	2.55
66.00		94.71	0.37	0.03	0.01	2.40
67.00		94.71	0.38	0.03	0.01	2.24
68.00		94.71	0.39	0.02	0.01	2.06
69.00		94.71	0.40	0.02	0.01	1.88
70.00		94.71	0.41	0.01	0.01	1.68
71.00		94.71	0.42	0.01	0.01	1.47
72.00		94.71	0.44	0.01	0.01	1.25
73.00		94.71	0.45	0.00	0.01	1.01
74.00		94.71	0.46	0.00	0.01	0.77
75.00	Appurtenance(s)	104.71	0.47	-0.01	0.01	0.58
76.00		94.71	0.49	-0.01	0.01	0.27
77.00		94.71	0.50	-0.02	0.01	0.01
78.00		94.71	0.51	-0.02	0.01	-0.26
79.00		94.71	0.52	-0.03	0.01	-0.52
80.00	Top - Section 3	94.71	0.54	-0.03	0.01	-0.78
81.00		94.71	0.55	-0.03	0.01	-1.04
82.00		94.71	0.56	-0.04	0.01	-1.30
83.00		94.71	0.58	-0.05	0.01	-1.55
84.00		94.71	0.59	-0.05	0.01	-1.79
85.00		94.71	0.61	-0.06	0.02	-2.02
86.00		94.71	0.62	-0.06	0.02	-2.24
87.00		94.71	0.64	-0.07	0.02	-2.44
88.00		94.71	0.65	-0.07	0.02	-2.63
89.00		94.71	0.67	-0.08	0.02	-2.80
90.00		94.71	0.68	-0.08	0.03	-2.96
91.00		94.71	0.70	-0.09	0.03	-3.10
92.00		94.71	0.71	-0.09	0.03	-3.22
93.00		94.71	0.73	-0.09	0.04	-3.33
94.00		94.71	0.74	-0.10	0.04	-3.41
95.00		94.71	0.76	-0.10	0.04	-3.48
96.00		94.71	0.77	-0.11	0.05	-3.52
97.00		94.71	0.79	-0.11	0.05	-3.55
98.00		94.71	0.81	-0.11	0.06	-3.56
99.00		94.71	0.82	-0.12	0.06	-3.54
100.00		94.71	0.84	-0.12	0.07	-3.51
101.00		94.71	0.86	-0.12	0.07	-3.46
102.00		94.71	0.87	-0.12	0.08	-3.39

Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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		94.71	0.89	-0.12	0.08	-3.30
104.00		94.71	0.91	-0.12	0.09	-3.19
105.00		94.71	0.93	-0.12	0.10	-3.06
106.00		94.71	0.94	-0.12	0.11	-2.91
107.00		94.71	0.96	-0.12	0.11	-2.74
108.00	Top - Section 4	107.62	0.98	-0.11	0.12	-2.90
109.00		94.71	1.00	-0.11	0.13	-2.35
110.00	Top - Section 5 RB1	172.19	1.02	-0.11	0.14	-3.87
111.00		61.47	1.03	-0.10	0.15	-1.22
111.50	RT1	30.73	1.04	-0.10	0.15	-0.57
112.00		30.73	1.05	-0.09	0.16	-0.53
113.00		61.47	1.07	-0.08	0.17	-0.87
114.00		61.47	1.09	-0.07	0.18	-0.68
115.00	Appurtenance(s)	276.07	1.11	-0.06	0.19	-2.12
116.00		61.47	1.13	-0.05	0.21	-0.25
117.00		61.47	1.15	-0.04	0.22	-0.02
118.00		61.47	1.17	-0.02	0.23	0.22
119.00		61.47	1.19	0.00	0.25	0.47
120.00	Appurtenance(s)	190.61	1.21	0.01	0.26	2.29
121.00		61.47	1.23	0.03	0.28	1.02
122.00		61.47	1.25	0.06	0.29	1.31
123.00		61.47	1.27	0.08	0.31	1.61
124.00		61.47	1.29	0.11	0.33	1.93
125.00		61.47	1.31	0.14	0.35	2.25
126.00		61.47	1.33	0.17	0.37	2.59
127.00	Appurtenance(s)	228.37	1.35	0.20	0.39	10.94
128.00		61.47	1.38	0.24	0.41	3.31
129.00		61.47	1.40	0.28	0.43	3.69
130.00	Top - Section 6	190.61	1.42	0.32	0.45	12.64
131.00		28.60	1.44	0.37	0.48	2.08
132.00		28.60	1.46	0.42	0.50	2.28
133.00		28.60	1.49	0.47	0.53	2.47
134.00		28.60	1.51	0.52	0.55	2.68
135.00	Appurtenance(s)	233.90	1.53	0.58	0.58	23.64
136.00		28.60	1.55	0.64	0.61	3.11
137.00		28.60	1.58	0.71	0.64	3.33
138.00		28.60	1.60	0.78	0.67	3.56
139.00		28.60	1.62	0.85	0.70	3.79
140.00	Appurtenance(s)	182.74	1.65	0.93	0.73	25.77
141.00		28.60	1.67	1.01	0.77	4.28
142.00		28.60	1.69	1.10	0.81	4.53
143.00		28.60	1.72	1.19	0.84	4.79
144.00		28.60	1.74	1.29	0.88	5.06
145.00		28.60	1.77	1.39	0.92	5.33
146.00		28.60	1.79	1.50	0.96	5.61
147.00		28.60	1.82	1.61	1.00	5.89
148.00		28.60	1.84	1.73	1.05	6.18
149.00		28.60	1.86	1.85	1.09	6.48
150.00	Appurtenance(s)	98.17	1.89	1.98	1.14	23.28
Totals:		15,072.1				354.5
						Total Wind: 11,853.2

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

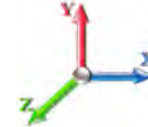
Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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 + 1.0E								Iterations 37
Gust Response Factor	1.10					Sds	0.19	Ss 0.18
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.10			S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.33	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	-22.05	-0.45	0.00	-37.35	0.00	37.35	1490.10	745.05	2187.51	1339.68	0.00	0.00	0.00	0.043
1.00	-21.85	-0.45	0.00	-36.91	0.00	36.91	1490.10	745.05	2187.51	1339.68	0.00	0.00	0.00	0.042
2.00	-21.65	-0.45	0.00	-36.46	0.00	36.46	1490.10	745.05	2187.51	1339.68	0.00	0.00	0.00	0.042
3.00	-21.45	-0.45	0.00	-36.01	0.00	36.01	1490.10	745.05	2187.51	1339.68	0.00	0.00	0.00	0.041
4.00	-21.25	-0.44	0.00	-35.57	0.00	35.57	1490.10	745.05	2187.51	1339.68	0.00	-0.01	0.00	0.041
5.00	-21.05	-0.44	0.00	-35.12	0.00	35.12	1490.10	745.05	2187.51	1339.68	0.00	-0.01	0.00	0.040
6.00	-20.85	-0.44	0.00	-34.68	0.00	34.68	1490.10	745.05	2187.51	1339.68	0.01	-0.01	0.00	0.040
7.00	-20.66	-0.44	0.00	-34.24	0.00	34.24	1490.10	745.05	2187.51	1339.68	0.01	-0.01	0.00	0.039
8.00	-20.46	-0.43	0.00	-33.81	0.00	33.81	1490.10	745.05	2187.51	1339.68	0.01	-0.01	0.00	0.039
9.00	-20.26	-0.43	0.00	-33.37	0.00	33.37	1490.10	745.05	2187.51	1339.68	0.01	-0.01	0.00	0.039
10.00	-20.06	-0.43	0.00	-32.94	0.00	32.94	1490.10	745.05	2187.51	1339.68	0.02	-0.01	0.00	0.038
11.00	-19.86	-0.42	0.00	-32.52	0.00	32.52	1490.10	745.05	2187.51	1339.68	0.02	-0.02	0.00	0.038
12.00	-19.66	-0.42	0.00	-32.09	0.00	32.09	1490.10	745.05	2187.51	1339.68	0.02	-0.02	0.00	0.037
13.00	-19.46	-0.42	0.00	-31.67	0.00	31.67	1490.10	745.05	2187.51	1339.68	0.03	-0.02	0.00	0.037
14.00	-19.26	-0.41	0.00	-31.26	0.00	31.26	1490.10	745.05	2187.51	1339.68	0.03	-0.02	0.00	0.036
15.00	-19.06	-0.41	0.00	-30.84	0.00	30.84	1490.10	745.05	2187.51	1339.68	0.04	-0.02	0.00	0.036
16.00	-18.87	-0.40	0.00	-30.44	0.00	30.44	1490.10	745.05	2187.51	1339.68	0.04	-0.02	0.00	0.035
17.00	-18.67	-0.40	0.00	-30.03	0.00	30.03	1490.10	745.05	2187.51	1339.68	0.05	-0.02	0.00	0.035
18.00	-18.47	-0.40	0.00	-29.63	0.00	29.63	1490.10	745.05	2187.51	1339.68	0.05	-0.03	0.00	0.035
19.00	-18.27	-0.39	0.00	-29.24	0.00	29.24	1490.10	745.05	2187.51	1339.68	0.06	-0.03	0.00	0.034
20.00	-18.07	-0.39	0.00	-28.85	0.00	28.85	1490.10	745.05	2187.51	1339.68	0.06	-0.03	0.00	0.034
20.00	-18.07	-0.39	0.00	-28.85	0.00	28.85	1311.06	655.53	1597.15	948.43	0.06	-0.03	0.00	0.044
21.00	-17.90	-0.38	0.00	-28.46	0.00	28.46	1311.06	655.53	1597.15	948.43	0.07	-0.03	0.00	0.044
22.00	-17.73	-0.38	0.00	-28.08	0.00	28.08	1311.06	655.53	1597.15	948.43	0.07	-0.03	0.00	0.043
23.00	-17.56	-0.38	0.00	-27.70	0.00	27.70	1311.06	655.53	1597.15	948.43	0.08	-0.03	0.00	0.043
24.00	-17.39	-0.37	0.00	-27.32	0.00	27.32	1311.06	655.53	1597.15	948.43	0.09	-0.04	0.00	0.042
25.00	-17.22	-0.37	0.00	-26.95	0.00	26.95	1311.06	655.53	1597.15	948.43	0.10	-0.04	0.00	0.042
26.00	-17.05	-0.37	0.00	-26.58	0.00	26.58	1311.06	655.53	1597.15	948.43	0.10	-0.04	0.00	0.041
27.00	-16.88	-0.36	0.00	-26.22	0.00	26.22	1311.06	655.53	1597.15	948.43	0.11	-0.04	0.00	0.041
28.00	-16.71	-0.36	0.00	-25.85	0.00	25.85	1311.06	655.53	1597.15	948.43	0.12	-0.04	0.00	0.040
29.00	-16.54	-0.35	0.00	-25.50	0.00	25.50	1311.06	655.53	1597.15	948.43	0.13	-0.05	0.00	0.039
30.00	-16.37	-0.35	0.00	-25.14	0.00	25.14	1311.06	655.53	1597.15	948.43	0.14	-0.05	0.00	0.039
31.00	-16.20	-0.35	0.00	-24.79	0.00	24.79	1311.06	655.53	1597.15	948.43	0.15	-0.05	0.00	0.038
32.00	-16.03	-0.34	0.00	-24.44	0.00	24.44	1311.06	655.53	1597.15	948.43	0.16	-0.05	0.00	0.038
33.00	-15.86	-0.34	0.00	-24.10	0.00	24.10	1311.06	655.53	1597.15	948.43	0.17	-0.05	0.00	0.038
34.00	-15.69	-0.34	0.00	-23.76	0.00	23.76	1311.06	655.53	1597.15	948.43	0.18	-0.05	0.00	0.037
35.00	-15.52	-0.33	0.00	-23.43	0.00	23.43	1311.06	655.53	1597.15	948.43	0.19	-0.06	0.00	0.037
36.00	-15.35	-0.33	0.00	-23.09	0.00	23.09	1311.06	655.53	1597.15	948.43	0.21	-0.06	0.00	0.036
37.00	-15.18	-0.32	0.00	-22.77	0.00	22.77	1311.06	655.53	1597.15	948.43	0.22	-0.06	0.00	0.036
38.00	-15.01	-0.32	0.00	-22.44	0.00	22.44	1311.06	655.53	1597.15	948.43	0.23	-0.06	0.00	0.035
39.00	-14.84	-0.32	0.00	-22.12	0.00	22.12	1311.06	655.53	1597.15	948.43	0.24	-0.06	0.00	0.035
40.00	-14.67	-0.31	0.00	-21.81	0.00	21.81	1311.06	655.53	1597.15	948.43	0.26	-0.06	0.00	0.034
41.00	-14.50	-0.31	0.00	-21.50	0.00	21.50	1311.06	655.53	1597.15	948.43	0.27	-0.07	0.00	0.034
42.00	-14.33	-0.30	0.00	-21.19	0.00	21.19	1311.06	655.53	1597.15	948.43	0.29	-0.07	0.00	0.033
43.00	-14.16	-0.30	0.00	-20.89	0.00	20.89	1311.06	655.53	1597.15	948.43	0.30	-0.07	0.00	0.033
44.00	-13.99	-0.29	0.00	-20.59	0.00	20.59	1311.06	655.53	1597.15	948.43	0.32	-0.07	0.00	0.032
45.00	-13.82	-0.29	0.00	-20.29	0.00	20.29	1311.06	655.53	1597.15	948.43	0.33	-0.07	0.00	0.032

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-13.65	-0.29	0.00	-20.00	0.00	20.00	1311.06	655.53	1597.15	948.43	0.35	-0.07	0.032
47.00	-13.48	-0.28	0.00	-19.72	0.00	19.72	1311.06	655.53	1597.15	948.43	0.36	-0.08	0.031
48.00	-13.31	-0.28	0.00	-19.44	0.00	19.44	1311.06	655.53	1597.15	948.43	0.38	-0.08	0.031
49.00	-13.14	-0.27	0.00	-19.16	0.00	19.16	1311.06	655.53	1597.15	948.43	0.39	-0.08	0.030
50.00	-12.97	-0.27	0.00	-18.89	0.00	18.89	1311.06	655.53	1597.15	948.43	0.41	-0.08	0.030
50.00	-12.97	-0.27	0.00	-18.89	0.00	18.89	1052.07	526.04	1018.84	624.04	0.41	-0.08	0.043
51.00	-12.83	-0.27	0.00	-18.62	0.00	18.62	1052.07	526.04	1018.84	624.04	0.43	-0.08	0.042
52.00	-12.69	-0.26	0.00	-18.35	0.00	18.35	1052.07	526.04	1018.84	624.04	0.44	-0.08	0.041
53.00	-12.55	-0.26	0.00	-18.09	0.00	18.09	1052.07	526.04	1018.84	624.04	0.46	-0.09	0.041
54.00	-12.40	-0.26	0.00	-17.83	0.00	17.83	1052.07	526.04	1018.84	624.04	0.48	-0.09	0.040
55.00	-12.26	-0.25	0.00	-17.58	0.00	17.58	1052.07	526.04	1018.84	624.04	0.50	-0.09	0.040
56.00	-12.12	-0.25	0.00	-17.32	0.00	17.32	1052.07	526.04	1018.84	624.04	0.52	-0.09	0.039
57.00	-11.98	-0.25	0.00	-17.07	0.00	17.07	1052.07	526.04	1018.84	624.04	0.54	-0.10	0.039
58.00	-11.84	-0.24	0.00	-16.83	0.00	16.83	1052.07	526.04	1018.84	624.04	0.56	-0.10	0.038
59.00	-11.70	-0.24	0.00	-16.58	0.00	16.58	1052.07	526.04	1018.84	624.04	0.58	-0.10	0.038
60.00	-11.56	-0.24	0.00	-16.34	0.00	16.34	1052.07	526.04	1018.84	624.04	0.60	-0.10	0.037
61.00	-11.42	-0.24	0.00	-16.10	0.00	16.10	1052.07	526.04	1018.84	624.04	0.62	-0.11	0.037
62.00	-11.27	-0.23	0.00	-15.87	0.00	15.87	1052.07	526.04	1018.84	624.04	0.65	-0.11	0.036
63.00	-11.13	-0.23	0.00	-15.63	0.00	15.63	1052.07	526.04	1018.84	624.04	0.67	-0.11	0.036
64.00	-10.99	-0.23	0.00	-15.40	0.00	15.40	1052.07	526.04	1018.84	624.04	0.69	-0.11	0.035
65.00	-10.85	-0.23	0.00	-15.18	0.00	15.18	1052.07	526.04	1018.84	624.04	0.72	-0.12	0.035
66.00	-10.71	-0.22	0.00	-14.95	0.00	14.95	1052.07	526.04	1018.84	624.04	0.74	-0.12	0.034
67.00	-10.57	-0.22	0.00	-14.73	0.00	14.73	1052.07	526.04	1018.84	624.04	0.77	-0.12	0.034
68.00	-10.43	-0.22	0.00	-14.51	0.00	14.51	1052.07	526.04	1018.84	624.04	0.79	-0.12	0.033
69.00	-10.29	-0.22	0.00	-14.29	0.00	14.29	1052.07	526.04	1018.84	624.04	0.82	-0.12	0.033
70.00	-10.14	-0.22	0.00	-14.07	0.00	14.07	1052.07	526.04	1018.84	624.04	0.84	-0.13	0.032
71.00	-10.00	-0.21	0.00	-13.86	0.00	13.86	1052.07	526.04	1018.84	624.04	0.87	-0.13	0.032
72.00	-9.86	-0.21	0.00	-13.64	0.00	13.64	1052.07	526.04	1018.84	624.04	0.90	-0.13	0.031
73.00	-9.72	-0.21	0.00	-13.43	0.00	13.43	1052.07	526.04	1018.84	624.04	0.93	-0.13	0.031
74.00	-9.58	-0.21	0.00	-13.22	0.00	13.22	1052.07	526.04	1018.84	624.04	0.95	-0.13	0.030
75.00	-9.43	-0.21	0.00	-13.01	0.00	13.01	1052.07	526.04	1018.84	624.04	0.98	-0.14	0.030
76.00	-9.29	-0.21	0.00	-12.80	0.00	12.80	1052.07	526.04	1018.84	624.04	1.01	-0.14	0.029
77.00	-9.15	-0.21	0.00	-12.59	0.00	12.59	1052.07	526.04	1018.84	624.04	1.04	-0.14	0.029
78.00	-9.00	-0.21	0.00	-12.38	0.00	12.38	1052.07	526.04	1018.84	624.04	1.07	-0.14	0.028
79.00	-8.86	-0.21	0.00	-12.17	0.00	12.17	1052.07	526.04	1018.84	624.04	1.10	-0.14	0.028
80.00	-8.72	-0.21	0.00	-11.96	0.00	11.96	1052.07	526.04	1018.84	624.04	1.13	-0.15	0.027
80.00	-8.72	-0.21	0.00	-11.96	0.00	11.96	1052.07	526.04	1018.84	624.04	1.13	-0.15	0.027
81.00	-8.58	-0.21	0.00	-11.75	0.00	11.75	1052.07	526.04	1018.84	624.04	1.16	-0.15	0.027
82.00	-8.44	-0.21	0.00	-11.54	0.00	11.54	1052.07	526.04	1018.84	624.04	1.19	-0.15	0.027
83.00	-8.30	-0.21	0.00	-11.33	0.00	11.33	1052.07	526.04	1018.84	624.04	1.22	-0.15	0.026
84.00	-8.16	-0.21	0.00	-11.12	0.00	11.12	1052.07	526.04	1018.84	624.04	1.25	-0.15	0.026
85.00	-8.02	-0.21	0.00	-10.91	0.00	10.91	1052.07	526.04	1018.84	624.04	1.29	-0.15	0.025
86.00	-7.88	-0.21	0.00	-10.70	0.00	10.70	1052.07	526.04	1018.84	624.04	1.32	-0.16	0.025
87.00	-7.74	-0.21	0.00	-10.49	0.00	10.49	1052.07	526.04	1018.84	624.04	1.35	-0.16	0.024
88.00	-7.59	-0.21	0.00	-10.29	0.00	10.29	1052.07	526.04	1018.84	624.04	1.38	-0.16	0.024
89.00	-7.45	-0.21	0.00	-10.08	0.00	10.08	1052.07	526.04	1018.84	624.04	1.42	-0.16	0.023
90.00	-7.31	-0.21	0.00	-9.87	0.00	9.87	1052.07	526.04	1018.84	624.04	1.45	-0.16	0.023
91.00	-7.17	-0.21	0.00	-9.66	0.00	9.66	1052.07	526.04	1018.84	624.04	1.49	-0.16	0.022
92.00	-7.03	-0.21	0.00	-9.45	0.00	9.45	1052.07	526.04	1018.84	624.04	1.52	-0.16	0.022
93.00	-6.89	-0.21	0.00	-9.24	0.00	9.24	1052.07	526.04	1018.84	624.04	1.55	-0.17	0.021
94.00	-6.75	-0.21	0.00	-9.04	0.00	9.04	1052.07	526.04	1018.84	624.04	1.59	-0.17	0.021
95.00	-6.61	-0.21	0.00	-8.83	0.00	8.83	1052.07	526.04	1018.84	624.04	1.62	-0.17	0.020
96.00	-6.47	-0.21	0.00	-8.62	0.00	8.62	1052.07	526.04	1018.84	624.04	1.66	-0.17	0.020
97.00	-6.33	-0.21	0.00	-8.42	0.00	8.42	1052.07	526.04	1018.84	624.04	1.70	-0.17	0.019
98.00	-6.18	-0.21	0.00	-8.21	0.00	8.21	1052.07	526.04	1018.84	624.04	1.73	-0.17	0.019
99.00	-6.04	-0.21	0.00	-8.00	0.00	8.00	1052.07	526.04	1018.84	624.04	1.77	-0.17	0.019
100.00	-5.90	-0.21	0.00	-7.80	0.00	7.80	1052.07	526.04	1018.84	624.04	1.80	-0.17	0.018

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-5.76	-0.21	0.00	-7.59	0.00	7.59	1052.07	526.04	1018.84	624.04	1.84	-0.18	0.018
102.00	-5.62	-0.20	0.00	-7.39	0.00	7.39	1052.07	526.04	1018.84	624.04	1.88	-0.18	0.017
103.00	-5.48	-0.20	0.00	-7.18	0.00	7.18	1052.07	526.04	1018.84	624.04	1.91	-0.18	0.017
104.00	-5.34	-0.20	0.00	-6.98	0.00	6.98	1052.07	526.04	1018.84	624.04	1.95	-0.18	0.016
105.00	-5.20	-0.20	0.00	-6.77	0.00	6.77	1052.07	526.04	1018.84	624.04	1.99	-0.18	0.016
106.00	-5.06	-0.20	0.00	-6.57	0.00	6.57	1052.07	526.04	1018.84	624.04	2.03	-0.18	0.015
107.00	-4.92	-0.20	0.00	-6.37	0.00	6.37	1052.07	526.04	1018.84	624.04	2.06	-0.18	0.015
108.00	-4.76	-0.20	0.00	-6.16	0.00	6.16	1052.07	526.04	1018.84	624.04	2.10	-0.18	0.014
108.00	-4.76	-0.20	0.00	-6.16	0.00	6.16	1052.07	526.04	1018.84	624.04	2.10	-0.18	0.014
109.00	-4.61	-0.20	0.00	-5.96	0.00	5.96	1052.07	526.04	1018.84	624.04	2.14	-0.18	0.014
110.00	-4.36	-0.20	0.00	-5.76	0.00	5.76	1052.07	526.04	1018.84	624.04	2.18	-0.18	0.009
110.00	-4.36	-0.20	0.00	-5.76	0.00	5.76	682.83	341.41	139.27	105.20	2.18	-0.18	0.004
111.00	-4.25	-0.20	0.00	-5.56	0.00	5.56	682.83	341.41	139.27	105.20	2.22	-0.18	0.018
111.50	-4.19	-0.20	0.00	-5.45	0.00	5.45	682.83	341.41	139.27	105.20	2.24	-0.19	0.018
111.50	-4.19	-0.20	0.00	-5.45	0.00	5.45	682.83	341.41	139.27	105.20	2.24	-0.19	0.018
112.00	-4.14	-0.20	0.00	-5.35	0.00	5.35	682.83	341.41	139.27	105.20	2.26	-0.19	0.057
113.00	-4.02	-0.20	0.00	-5.15	0.00	5.15	682.83	341.41	139.27	105.20	2.30	-0.21	0.055
114.00	-3.91	-0.20	0.00	-4.95	0.00	4.95	682.83	341.41	139.27	105.20	2.35	-0.23	0.053
115.00	-3.54	-0.20	0.00	-4.74	0.00	4.74	682.83	341.41	139.27	105.20	2.40	-0.25	0.050
116.00	-3.43	-0.20	0.00	-4.54	0.00	4.54	682.83	341.41	139.27	105.20	2.45	-0.27	0.048
117.00	-3.33	-0.20	0.00	-4.34	0.00	4.34	682.83	341.41	139.27	105.20	2.51	-0.28	0.046
118.00	-3.22	-0.20	0.00	-4.13	0.00	4.13	682.83	341.41	139.27	105.20	2.57	-0.30	0.044
119.00	-3.12	-0.20	0.00	-3.93	0.00	3.93	682.83	341.41	139.27	105.20	2.63	-0.31	0.042
120.00	-2.86	-0.20	0.00	-3.72	0.00	3.72	682.83	341.41	139.27	105.20	2.70	-0.33	0.040
121.00	-2.75	-0.20	0.00	-3.52	0.00	3.52	682.83	341.41	139.27	105.20	2.77	-0.34	0.038
122.00	-2.65	-0.20	0.00	-3.32	0.00	3.32	682.83	341.41	139.27	105.20	2.84	-0.36	0.035
123.00	-2.54	-0.20	0.00	-3.12	0.00	3.12	682.83	341.41	139.27	105.20	2.92	-0.37	0.033
124.00	-2.43	-0.20	0.00	-2.92	0.00	2.92	682.83	341.41	139.27	105.20	3.00	-0.38	0.031
125.00	-2.33	-0.19	0.00	-2.73	0.00	2.73	682.83	341.41	139.27	105.20	3.08	-0.39	0.029
126.00	-2.22	-0.19	0.00	-2.54	0.00	2.54	682.83	341.41	139.27	105.20	3.16	-0.40	0.027
127.00	-1.92	-0.18	0.00	-2.35	0.00	2.35	682.83	341.41	139.27	105.20	3.25	-0.41	0.025
128.00	-1.82	-0.17	0.00	-2.17	0.00	2.17	682.83	341.41	139.27	105.20	3.33	-0.42	0.023
129.00	-1.73	-0.17	0.00	-2.00	0.00	2.00	682.83	341.41	139.27	105.20	3.42	-0.43	0.021
130.00	-1.48	-0.15	0.00	-1.83	0.00	1.83	682.83	341.41	139.27	105.20	3.51	-0.43	0.020
130.00	-1.48	-0.15	0.00	-1.83	0.00	1.83	317.71	158.85	76.59	52.28	3.51	-0.43	0.040
131.00	-1.42	-0.15	0.00	-1.67	0.00	1.67	317.71	158.85	76.59	52.28	3.60	-0.44	0.036
132.00	-1.37	-0.15	0.00	-1.52	0.00	1.52	317.71	158.85	76.59	52.28	3.69	-0.45	0.033
133.00	-1.31	-0.15	0.00	-1.37	0.00	1.37	317.71	158.85	76.59	52.28	3.79	-0.46	0.030
134.00	-1.26	-0.14	0.00	-1.22	0.00	1.22	317.71	158.85	76.59	52.28	3.89	-0.47	0.027
135.00	-0.96	-0.12	0.00	-1.08	0.00	1.08	317.71	158.85	76.59	52.28	3.99	-0.48	0.024
136.00	-0.91	-0.12	0.00	-0.96	0.00	0.96	317.71	158.85	76.59	52.28	4.09	-0.49	0.021
137.00	-0.86	-0.11	0.00	-0.84	0.00	0.84	317.71	158.85	76.59	52.28	4.19	-0.49	0.019
138.00	-0.82	-0.11	0.00	-0.73	0.00	0.73	317.71	158.85	76.59	52.28	4.29	-0.50	0.017
139.00	-0.77	-0.10	0.00	-0.62	0.00	0.62	317.71	158.85	76.59	52.28	4.40	-0.50	0.014
140.00	-0.54	-0.08	0.00	-0.52	0.00	0.52	317.71	158.85	76.59	52.28	4.50	-0.51	0.012
141.00	-0.50	-0.07	0.00	-0.44	0.00	0.44	317.71	158.85	76.59	52.28	4.61	-0.51	0.010
142.00	-0.45	-0.07	0.00	-0.37	0.00	0.37	317.71	158.85	76.59	52.28	4.72	-0.51	0.009
143.00	-0.40	-0.06	0.00	-0.30	0.00	0.30	317.71	158.85	76.59	52.28	4.83	-0.51	0.007
144.00	-0.36	-0.06	0.00	-0.24	0.00	0.24	317.71	158.85	76.59	52.28	4.93	-0.52	0.006
145.00	-0.31	-0.05	0.00	-0.19	0.00	0.19	317.71	158.85	76.59	52.28	5.04	-0.52	0.005
146.00	-0.27	-0.04	0.00	-0.14	0.00	0.14	317.71	158.85	76.59	52.28	5.15	-0.52	0.003
147.00	-0.22	-0.04	0.00	-0.09	0.00	0.09	317.71	158.85	76.59	52.28	5.26	-0.52	0.002
148.00	-0.17	-0.03	0.00	-0.06	0.00	0.06	317.71	158.85	76.59	52.28	5.37	-0.52	0.002
149.00	-0.13	-0.02	0.00	-0.02	0.00	0.02	317.71	158.85	76.59	52.28	5.48	-0.52	0.001
150.00	0.00	-0.02	0.00	0.00	0.00	0.00	317.71	158.85	76.59	52.28	5.59	-0.52	0.000

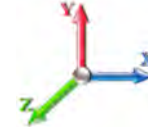
Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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 + 1.0E				Iterations 37
Gust Response Factor	1.10	Sds	0.19	Ss 0.18
Dead Load Factor	0.90	Seismic Load Factor	1.00	S1 0.06
Wind Load Factor	0.00	Structure Frequency (f1)	0.33	SA 0.03
				Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
1.00		142.81	0.00	0.01	0.00	0.74	
2.00		142.81	0.00	0.01	0.01	1.35	
3.00		142.81	0.00	0.02	0.01	1.86	
4.00		142.81	0.00	0.03	0.01	2.28	
5.00		142.81	0.00	0.03	0.02	2.65	
6.00		142.81	0.00	0.04	0.02	2.95	
7.00		142.81	0.00	0.04	0.02	3.22	
8.00		142.81	0.01	0.05	0.03	3.45	
9.00		142.81	0.01	0.05	0.03	3.65	
10.00		142.81	0.01	0.05	0.03	3.82	
11.00		142.81	0.01	0.06	0.03	3.97	
12.00		142.81	0.01	0.06	0.03	4.10	
13.00		142.81	0.01	0.06	0.03	4.21	
14.00		142.81	0.02	0.06	0.04	4.31	
15.00		142.81	0.02	0.06	0.04	4.39	
16.00		142.81	0.02	0.06	0.04	4.47	
17.00		142.81	0.02	0.07	0.04	4.53	
18.00		142.81	0.03	0.07	0.04	4.59	
19.00		142.81	0.03	0.07	0.04	4.64	
20.00	Top - Section 1	142.81	0.03	0.07	0.04	4.69	
21.00		118.76	0.04	0.07	0.04	3.93	
22.00		118.76	0.04	0.07	0.04	3.96	
23.00		118.76	0.04	0.07	0.04	3.99	
24.00		118.76	0.05	0.07	0.04	4.01	
25.00		118.76	0.05	0.07	0.04	4.04	
26.00		118.76	0.06	0.07	0.04	4.06	
27.00		118.76	0.06	0.07	0.04	4.08	
28.00		118.76	0.07	0.07	0.04	4.10	
29.00		118.76	0.07	0.07	0.04	4.12	
30.00		118.76	0.08	0.07	0.04	4.14	
31.00		118.76	0.08	0.07	0.04	4.16	
32.00		118.76	0.09	0.07	0.04	4.18	
33.00		118.76	0.09	0.07	0.04	4.20	
34.00		118.76	0.10	0.07	0.04	4.22	
35.00		118.76	0.10	0.07	0.04	4.25	
36.00		118.76	0.11	0.07	0.04	4.27	
37.00		118.76	0.11	0.07	0.04	4.29	
38.00		118.76	0.12	0.07	0.03	4.31	
39.00		118.76	0.13	0.07	0.03	4.32	
40.00		118.76	0.13	0.07	0.03	4.34	
41.00		118.76	0.14	0.07	0.03	4.36	
42.00		118.76	0.15	0.07	0.03	4.38	
43.00		118.76	0.16	0.07	0.03	4.39	
44.00		118.76	0.16	0.07	0.03	4.40	
45.00		118.76	0.17	0.07	0.03	4.41	

Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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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Elev	Topography	X	Y	Z	F _x	F _y	F _z
46.00	118.76	0.18	0.07	0.03			4.42
47.00	118.76	0.19	0.06	0.03			4.43
48.00	118.76	0.19	0.06	0.02			4.43
49.00	118.76	0.20	0.06	0.02			4.42
50.00	118.76	0.21	0.06	0.02			4.41
51.00	94.71	0.22	0.06	0.02			3.51
52.00	94.71	0.23	0.06	0.02			3.49
53.00	94.71	0.24	0.06	0.02			3.47
54.00	94.71	0.24	0.06	0.02			3.44
55.00	94.71	0.25	0.05	0.02			3.41
56.00	94.71	0.26	0.05	0.02			3.36
57.00	94.71	0.27	0.05	0.01			3.31
58.00	94.71	0.28	0.05	0.01			3.25
59.00	94.71	0.29	0.05	0.01			3.18
60.00	94.71	0.30	0.04	0.01			3.11
61.00	94.71	0.31	0.04	0.01			3.02
62.00	94.71	0.32	0.04	0.01			2.92
63.00	94.71	0.33	0.04	0.01			2.81
64.00	94.71	0.34	0.03	0.01			2.68
65.00	94.71	0.35	0.03	0.01			2.55
66.00	94.71	0.37	0.03	0.01			2.40
67.00	94.71	0.38	0.03	0.01			2.24
68.00	94.71	0.39	0.02	0.01			2.06
69.00	94.71	0.40	0.02	0.01			1.88
70.00	94.71	0.41	0.01	0.01			1.68
71.00	94.71	0.42	0.01	0.01			1.47
72.00	94.71	0.44	0.01	0.01			1.25
73.00	94.71	0.45	0.00	0.01			1.01
74.00	94.71	0.46	0.00	0.01			0.77
75.00	104.71	0.47	-0.01	0.01			0.58
76.00	94.71	0.49	-0.01	0.01			0.27
77.00	94.71	0.50	-0.02	0.01			0.01
78.00	94.71	0.51	-0.02	0.01			-0.26
79.00	94.71	0.52	-0.03	0.01			-0.52
80.00	94.71	0.54	-0.03	0.01			-0.78
81.00	94.71	0.55	-0.03	0.01			-1.04
82.00	94.71	0.56	-0.04	0.01			-1.30
83.00	94.71	0.58	-0.05	0.01			-1.55
84.00	94.71	0.59	-0.05	0.01			-1.79
85.00	94.71	0.61	-0.06	0.02			-2.02
86.00	94.71	0.62	-0.06	0.02			-2.24
87.00	94.71	0.64	-0.07	0.02			-2.44
88.00	94.71	0.65	-0.07	0.02			-2.63
89.00	94.71	0.67	-0.08	0.02			-2.80
90.00	94.71	0.68	-0.08	0.03			-2.96
91.00	94.71	0.70	-0.09	0.03			-3.10
92.00	94.71	0.71	-0.09	0.03			-3.22
93.00	94.71	0.73	-0.09	0.04			-3.33
94.00	94.71	0.74	-0.10	0.04			-3.41
95.00	94.71	0.76	-0.10	0.04			-3.48
96.00	94.71	0.77	-0.11	0.05			-3.52
97.00	94.71	0.79	-0.11	0.05			-3.55
98.00	94.71	0.81	-0.11	0.06			-3.56
99.00	94.71	0.82	-0.12	0.06			-3.54
100.00	94.71	0.84	-0.12	0.07			-3.51
101.00	94.71	0.86	-0.12	0.07			-3.46
102.00	94.71	0.87	-0.12	0.08			-3.39

Seismic Segment Forces (Factored)

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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		94.71	0.89	-0.12	0.08	-3.30
104.00		94.71	0.91	-0.12	0.09	-3.19
105.00		94.71	0.93	-0.12	0.10	-3.06
106.00		94.71	0.94	-0.12	0.11	-2.91
107.00		94.71	0.96	-0.12	0.11	-2.74
108.00	Top - Section 4	107.62	0.98	-0.11	0.12	-2.90
109.00		94.71	1.00	-0.11	0.13	-2.35
110.00	Top - Section 5 RB1	172.19	1.02	-0.11	0.14	-3.87
111.00		61.47	1.03	-0.10	0.15	-1.22
111.50	RT1	30.73	1.04	-0.10	0.15	-0.57
112.00		30.73	1.05	-0.09	0.16	-0.53
113.00		61.47	1.07	-0.08	0.17	-0.87
114.00		61.47	1.09	-0.07	0.18	-0.68
115.00	Appurtenance(s)	276.07	1.11	-0.06	0.19	-2.12
116.00		61.47	1.13	-0.05	0.21	-0.25
117.00		61.47	1.15	-0.04	0.22	-0.02
118.00		61.47	1.17	-0.02	0.23	0.22
119.00		61.47	1.19	0.00	0.25	0.47
120.00	Appurtenance(s)	190.61	1.21	0.01	0.26	2.29
121.00		61.47	1.23	0.03	0.28	1.02
122.00		61.47	1.25	0.06	0.29	1.31
123.00		61.47	1.27	0.08	0.31	1.61
124.00		61.47	1.29	0.11	0.33	1.93
125.00		61.47	1.31	0.14	0.35	2.25
126.00		61.47	1.33	0.17	0.37	2.59
127.00	Appurtenance(s)	228.37	1.35	0.20	0.39	10.94
128.00		61.47	1.38	0.24	0.41	3.31
129.00		61.47	1.40	0.28	0.43	3.69
130.00	Top - Section 6	190.61	1.42	0.32	0.45	12.64
131.00		28.60	1.44	0.37	0.48	2.08
132.00		28.60	1.46	0.42	0.50	2.28
133.00		28.60	1.49	0.47	0.53	2.47
134.00		28.60	1.51	0.52	0.55	2.68
135.00	Appurtenance(s)	233.90	1.53	0.58	0.58	23.64
136.00		28.60	1.55	0.64	0.61	3.11
137.00		28.60	1.58	0.71	0.64	3.33
138.00		28.60	1.60	0.78	0.67	3.56
139.00		28.60	1.62	0.85	0.70	3.79
140.00	Appurtenance(s)	182.74	1.65	0.93	0.73	25.77
141.00		28.60	1.67	1.01	0.77	4.28
142.00		28.60	1.69	1.10	0.81	4.53
143.00		28.60	1.72	1.19	0.84	4.79
144.00		28.60	1.74	1.29	0.88	5.06
145.00		28.60	1.77	1.39	0.92	5.33
146.00		28.60	1.79	1.50	0.96	5.61
147.00		28.60	1.82	1.61	1.00	5.89
148.00		28.60	1.84	1.73	1.05	6.18
149.00		28.60	1.86	1.85	1.09	6.48
150.00	Appurtenance(s)	98.17	1.89	1.98	1.14	23.28
Totals:		15,072.1				354.5
						Total Wind: 11,853.2

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

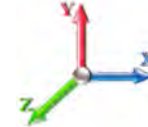
Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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 + 1.0E										Iterations 37
Gust Response Factor 1.10						Sds 0.19				Ss 0.18
Dead Load Factor 0.90		Seismic Load Factor 1.00		Sd1 0.10						S1 0.06
Wind Load Factor 0.00		Structure Frequency (f1) 0.33		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	-16.54	-0.45	0.00	-36.78	0.00	36.78	1490.10	745.05	2187.51	1339.68	0.00	0.00	0.00	0.039
1.00	-16.39	-0.45	0.00	-36.34	0.00	36.34	1490.10	745.05	2187.51	1339.68	0.00	0.00	0.00	0.038
2.00	-16.24	-0.45	0.00	-35.89	0.00	35.89	1490.10	745.05	2187.51	1339.68	0.00	0.00	0.00	0.038
3.00	-16.09	-0.44	0.00	-35.44	0.00	35.44	1490.10	745.05	2187.51	1339.68	0.00	0.00	0.00	0.037
4.00	-15.94	-0.44	0.00	-35.00	0.00	35.00	1490.10	745.05	2187.51	1339.68	0.00	-0.01	0.00	0.037
5.00	-15.79	-0.44	0.00	-34.55	0.00	34.55	1490.10	745.05	2187.51	1339.68	0.00	-0.01	0.00	0.036
6.00	-15.64	-0.44	0.00	-34.11	0.00	34.11	1490.10	745.05	2187.51	1339.68	0.01	-0.01	0.00	0.036
7.00	-15.49	-0.44	0.00	-33.68	0.00	33.68	1490.10	745.05	2187.51	1339.68	0.01	-0.01	0.00	0.036
8.00	-15.34	-0.43	0.00	-33.24	0.00	33.24	1490.10	745.05	2187.51	1339.68	0.01	-0.01	0.00	0.035
9.00	-15.19	-0.43	0.00	-32.81	0.00	32.81	1490.10	745.05	2187.51	1339.68	0.01	-0.01	0.00	0.035
10.00	-15.04	-0.43	0.00	-32.38	0.00	32.38	1490.10	745.05	2187.51	1339.68	0.02	-0.01	0.00	0.034
11.00	-14.89	-0.42	0.00	-31.95	0.00	31.95	1490.10	745.05	2187.51	1339.68	0.02	-0.02	0.00	0.034
12.00	-14.75	-0.42	0.00	-31.53	0.00	31.53	1490.10	745.05	2187.51	1339.68	0.02	-0.02	0.00	0.033
13.00	-14.60	-0.41	0.00	-31.11	0.00	31.11	1490.10	745.05	2187.51	1339.68	0.03	-0.02	0.00	0.033
14.00	-14.45	-0.41	0.00	-30.70	0.00	30.70	1490.10	745.05	2187.51	1339.68	0.03	-0.02	0.00	0.033
15.00	-14.30	-0.41	0.00	-30.29	0.00	30.29	1490.10	745.05	2187.51	1339.68	0.03	-0.02	0.00	0.032
16.00	-14.15	-0.40	0.00	-29.88	0.00	29.88	1490.10	745.05	2187.51	1339.68	0.04	-0.02	0.00	0.032
17.00	-14.00	-0.40	0.00	-29.48	0.00	29.48	1490.10	745.05	2187.51	1339.68	0.04	-0.02	0.00	0.031
18.00	-13.85	-0.39	0.00	-29.08	0.00	29.08	1490.10	745.05	2187.51	1339.68	0.05	-0.03	0.00	0.031
19.00	-13.70	-0.39	0.00	-28.69	0.00	28.69	1490.10	745.05	2187.51	1339.68	0.06	-0.03	0.00	0.031
20.00	-13.55	-0.38	0.00	-28.30	0.00	28.30	1490.10	745.05	2187.51	1339.68	0.06	-0.03	0.00	0.030
20.00	-13.55	-0.38	0.00	-28.30	0.00	28.30	1311.06	655.53	1597.15	948.43	0.06	-0.03	0.00	0.040
21.00	-13.42	-0.38	0.00	-27.92	0.00	27.92	1311.06	655.53	1597.15	948.43	0.07	-0.03	0.00	0.040
22.00	-13.30	-0.38	0.00	-27.54	0.00	27.54	1311.06	655.53	1597.15	948.43	0.07	-0.03	0.00	0.039
23.00	-13.17	-0.37	0.00	-27.16	0.00	27.16	1311.06	655.53	1597.15	948.43	0.08	-0.03	0.00	0.039
24.00	-13.04	-0.37	0.00	-26.79	0.00	26.79	1311.06	655.53	1597.15	948.43	0.09	-0.03	0.00	0.038
25.00	-12.91	-0.37	0.00	-26.42	0.00	26.42	1311.06	655.53	1597.15	948.43	0.09	-0.04	0.00	0.038
26.00	-12.79	-0.36	0.00	-26.05	0.00	26.05	1311.06	655.53	1597.15	948.43	0.10	-0.04	0.00	0.037
27.00	-12.66	-0.36	0.00	-25.69	0.00	25.69	1311.06	655.53	1597.15	948.43	0.11	-0.04	0.00	0.037
28.00	-12.53	-0.35	0.00	-25.33	0.00	25.33	1311.06	655.53	1597.15	948.43	0.12	-0.04	0.00	0.036
29.00	-12.40	-0.35	0.00	-24.98	0.00	24.98	1311.06	655.53	1597.15	948.43	0.13	-0.04	0.00	0.036
30.00	-12.28	-0.35	0.00	-24.62	0.00	24.62	1311.06	655.53	1597.15	948.43	0.14	-0.05	0.00	0.035
31.00	-12.15	-0.34	0.00	-24.28	0.00	24.28	1311.06	655.53	1597.15	948.43	0.15	-0.05	0.00	0.035
32.00	-12.02	-0.34	0.00	-23.93	0.00	23.93	1311.06	655.53	1597.15	948.43	0.16	-0.05	0.00	0.034
33.00	-11.89	-0.34	0.00	-23.59	0.00	23.59	1311.06	655.53	1597.15	948.43	0.17	-0.05	0.00	0.034
34.00	-11.77	-0.33	0.00	-23.26	0.00	23.26	1311.06	655.53	1597.15	948.43	0.18	-0.05	0.00	0.033
35.00	-11.64	-0.33	0.00	-22.93	0.00	22.93	1311.06	655.53	1597.15	948.43	0.19	-0.06	0.00	0.033
36.00	-11.51	-0.32	0.00	-22.60	0.00	22.60	1311.06	655.53	1597.15	948.43	0.20	-0.06	0.00	0.033
37.00	-11.38	-0.32	0.00	-22.28	0.00	22.28	1311.06	655.53	1597.15	948.43	0.22	-0.06	0.00	0.032
38.00	-11.26	-0.32	0.00	-21.96	0.00	21.96	1311.06	655.53	1597.15	948.43	0.23	-0.06	0.00	0.032
39.00	-11.13	-0.31	0.00	-21.64	0.00	21.64	1311.06	655.53	1597.15	948.43	0.24	-0.06	0.00	0.031
40.00	-11.00	-0.31	0.00	-21.33	0.00	21.33	1311.06	655.53	1597.15	948.43	0.25	-0.06	0.00	0.031
41.00	-10.87	-0.30	0.00	-21.02	0.00	21.02	1311.06	655.53	1597.15	948.43	0.27	-0.07	0.00	0.030
42.00	-10.75	-0.30	0.00	-20.72	0.00	20.72	1311.06	655.53	1597.15	948.43	0.28	-0.07	0.00	0.030
43.00	-10.62	-0.29	0.00	-20.42	0.00	20.42	1311.06	655.53	1597.15	948.43	0.30	-0.07	0.00	0.030
44.00	-10.49	-0.29	0.00	-20.13	0.00	20.13	1311.06	655.53	1597.15	948.43	0.31	-0.07	0.00	0.029
45.00	-10.36	-0.29	0.00	-19.84	0.00	19.84	1311.06	655.53	1597.15	948.43	0.32	-0.07	0.00	0.029

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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



46.00	-10.24	-0.28	0.00	-19.55	0.00	19.55	1311.06	655.53	1597.15	948.43	0.34	-0.07	0.028
47.00	-10.11	-0.28	0.00	-19.27	0.00	19.27	1311.06	655.53	1597.15	948.43	0.35	-0.07	0.028
48.00	-9.98	-0.27	0.00	-19.00	0.00	19.00	1311.06	655.53	1597.15	948.43	0.37	-0.08	0.028
49.00	-9.85	-0.27	0.00	-18.72	0.00	18.72	1311.06	655.53	1597.15	948.43	0.39	-0.08	0.027
50.00	-9.73	-0.26	0.00	-18.45	0.00	18.45	1311.06	655.53	1597.15	948.43	0.40	-0.08	0.027
50.00	-9.73	-0.26	0.00	-18.45	0.00	18.45	1052.07	526.04	1018.84	624.04	0.40	-0.08	0.039
51.00	-9.62	-0.26	0.00	-18.19	0.00	18.19	1052.07	526.04	1018.84	624.04	0.42	-0.08	0.038
52.00	-9.51	-0.26	0.00	-17.93	0.00	17.93	1052.07	526.04	1018.84	624.04	0.44	-0.08	0.038
53.00	-9.41	-0.25	0.00	-17.67	0.00	17.67	1052.07	526.04	1018.84	624.04	0.45	-0.08	0.037
54.00	-9.30	-0.25	0.00	-17.42	0.00	17.42	1052.07	526.04	1018.84	624.04	0.47	-0.09	0.037
55.00	-9.20	-0.25	0.00	-17.17	0.00	17.17	1052.07	526.04	1018.84	624.04	0.49	-0.09	0.036
56.00	-9.09	-0.24	0.00	-16.92	0.00	16.92	1052.07	526.04	1018.84	624.04	0.51	-0.09	0.036
57.00	-8.99	-0.24	0.00	-16.68	0.00	16.68	1052.07	526.04	1018.84	624.04	0.53	-0.09	0.035
58.00	-8.88	-0.24	0.00	-16.43	0.00	16.43	1052.07	526.04	1018.84	624.04	0.55	-0.10	0.035
59.00	-8.77	-0.24	0.00	-16.19	0.00	16.19	1052.07	526.04	1018.84	624.04	0.57	-0.10	0.034
60.00	-8.67	-0.23	0.00	-15.96	0.00	15.96	1052.07	526.04	1018.84	624.04	0.59	-0.10	0.034
61.00	-8.56	-0.23	0.00	-15.73	0.00	15.73	1052.07	526.04	1018.84	624.04	0.61	-0.10	0.033
62.00	-8.46	-0.23	0.00	-15.50	0.00	15.50	1052.07	526.04	1018.84	624.04	0.63	-0.11	0.033
63.00	-8.35	-0.22	0.00	-15.27	0.00	15.27	1052.07	526.04	1018.84	624.04	0.66	-0.11	0.032
64.00	-8.24	-0.22	0.00	-15.05	0.00	15.05	1052.07	526.04	1018.84	624.04	0.68	-0.11	0.032
65.00	-8.14	-0.22	0.00	-14.82	0.00	14.82	1052.07	526.04	1018.84	624.04	0.70	-0.11	0.031
66.00	-8.03	-0.22	0.00	-14.60	0.00	14.60	1052.07	526.04	1018.84	624.04	0.73	-0.12	0.031
67.00	-7.93	-0.21	0.00	-14.39	0.00	14.39	1052.07	526.04	1018.84	624.04	0.75	-0.12	0.031
68.00	-7.82	-0.21	0.00	-14.17	0.00	14.17	1052.07	526.04	1018.84	624.04	0.78	-0.12	0.030
69.00	-7.71	-0.21	0.00	-13.96	0.00	13.96	1052.07	526.04	1018.84	624.04	0.80	-0.12	0.030
70.00	-7.61	-0.21	0.00	-13.75	0.00	13.75	1052.07	526.04	1018.84	624.04	0.83	-0.12	0.029
71.00	-7.50	-0.21	0.00	-13.54	0.00	13.54	1052.07	526.04	1018.84	624.04	0.85	-0.13	0.029
72.00	-7.40	-0.21	0.00	-13.33	0.00	13.33	1052.07	526.04	1018.84	624.04	0.88	-0.13	0.028
73.00	-7.29	-0.21	0.00	-13.13	0.00	13.13	1052.07	526.04	1018.84	624.04	0.91	-0.13	0.028
74.00	-7.18	-0.20	0.00	-12.92	0.00	12.92	1052.07	526.04	1018.84	624.04	0.93	-0.13	0.028
75.00	-7.07	-0.20	0.00	-12.71	0.00	12.71	1052.07	526.04	1018.84	624.04	0.96	-0.13	0.027
76.00	-6.96	-0.20	0.00	-12.51	0.00	12.51	1052.07	526.04	1018.84	624.04	0.99	-0.14	0.027
77.00	-6.86	-0.20	0.00	-12.31	0.00	12.31	1052.07	526.04	1018.84	624.04	1.02	-0.14	0.026
78.00	-6.75	-0.20	0.00	-12.10	0.00	12.10	1052.07	526.04	1018.84	624.04	1.05	-0.14	0.026
79.00	-6.65	-0.20	0.00	-11.90	0.00	11.90	1052.07	526.04	1018.84	624.04	1.08	-0.14	0.025
80.00	-6.54	-0.20	0.00	-11.69	0.00	11.69	1052.07	526.04	1018.84	624.04	1.11	-0.14	0.025
80.00	-6.54	-0.20	0.00	-11.69	0.00	11.69	1052.07	526.04	1018.84	624.04	1.11	-0.14	0.025
81.00	-6.44	-0.20	0.00	-11.49	0.00	11.49	1052.07	526.04	1018.84	624.04	1.14	-0.14	0.025
82.00	-6.33	-0.20	0.00	-11.29	0.00	11.29	1052.07	526.04	1018.84	624.04	1.17	-0.15	0.024
83.00	-6.22	-0.20	0.00	-11.08	0.00	11.08	1052.07	526.04	1018.84	624.04	1.20	-0.15	0.024
84.00	-6.12	-0.20	0.00	-10.88	0.00	10.88	1052.07	526.04	1018.84	624.04	1.23	-0.15	0.023
85.00	-6.01	-0.20	0.00	-10.68	0.00	10.68	1052.07	526.04	1018.84	624.04	1.26	-0.15	0.023
86.00	-5.91	-0.20	0.00	-10.47	0.00	10.47	1052.07	526.04	1018.84	624.04	1.29	-0.15	0.022
87.00	-5.80	-0.20	0.00	-10.27	0.00	10.27	1052.07	526.04	1018.84	624.04	1.32	-0.15	0.022
88.00	-5.70	-0.20	0.00	-10.07	0.00	10.07	1052.07	526.04	1018.84	624.04	1.36	-0.16	0.022
89.00	-5.59	-0.20	0.00	-9.86	0.00	9.86	1052.07	526.04	1018.84	624.04	1.39	-0.16	0.021
90.00	-5.48	-0.20	0.00	-9.66	0.00	9.66	1052.07	526.04	1018.84	624.04	1.42	-0.16	0.021
91.00	-5.38	-0.20	0.00	-9.46	0.00	9.46	1052.07	526.04	1018.84	624.04	1.46	-0.16	0.020
92.00	-5.27	-0.20	0.00	-9.25	0.00	9.25	1052.07	526.04	1018.84	624.04	1.49	-0.16	0.020
93.00	-5.17	-0.20	0.00	-9.05	0.00	9.05	1052.07	526.04	1018.84	624.04	1.52	-0.16	0.019
94.00	-5.06	-0.20	0.00	-8.85	0.00	8.85	1052.07	526.04	1018.84	624.04	1.56	-0.16	0.019
95.00	-4.96	-0.20	0.00	-8.65	0.00	8.65	1052.07	526.04	1018.84	624.04	1.59	-0.16	0.019
96.00	-4.85	-0.20	0.00	-8.45	0.00	8.45	1052.07	526.04	1018.84	624.04	1.63	-0.17	0.018
97.00	-4.74	-0.20	0.00	-8.24	0.00	8.24	1052.07	526.04	1018.84	624.04	1.66	-0.17	0.018
98.00	-4.64	-0.20	0.00	-8.04	0.00	8.04	1052.07	526.04	1018.84	624.04	1.70	-0.17	0.017
99.00	-4.53	-0.20	0.00	-7.84	0.00	7.84	1052.07	526.04	1018.84	624.04	1.73	-0.17	0.017
100.00	-4.43	-0.20	0.00	-7.64	0.00	7.64	1052.07	526.04	1018.84	624.04	1.77	-0.17	0.016

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-4.32	-0.20	0.00	-7.44	0.00	7.44	1052.07	526.04	1018.84	624.04	1.80	-0.17	0.016
102.00	-4.21	-0.20	0.00	-7.24	0.00	7.24	1052.07	526.04	1018.84	624.04	1.84	-0.17	0.016
103.00	-4.11	-0.20	0.00	-7.04	0.00	7.04	1052.07	526.04	1018.84	624.04	1.88	-0.17	0.015
104.00	-4.00	-0.20	0.00	-6.84	0.00	6.84	1052.07	526.04	1018.84	624.04	1.91	-0.17	0.015
105.00	-3.90	-0.20	0.00	-6.64	0.00	6.64	1052.07	526.04	1018.84	624.04	1.95	-0.18	0.014
106.00	-3.79	-0.20	0.00	-6.44	0.00	6.44	1052.07	526.04	1018.84	624.04	1.99	-0.18	0.014
107.00	-3.69	-0.20	0.00	-6.24	0.00	6.24	1052.07	526.04	1018.84	624.04	2.02	-0.18	0.014
108.00	-3.57	-0.20	0.00	-6.04	0.00	6.04	1052.07	526.04	1018.84	624.04	2.06	-0.18	0.013
108.00	-3.57	-0.20	0.00	-6.04	0.00	6.04	1052.07	526.04	1018.84	624.04	2.06	-0.18	0.013
109.00	-3.45	-0.20	0.00	-5.84	0.00	5.84	1052.07	526.04	1018.84	624.04	2.10	-0.18	0.013
110.00	-3.27	-0.20	0.00	-5.64	0.00	5.64	1052.07	526.04	1018.84	624.04	2.14	-0.18	0.008
110.00	-3.27	-0.20	0.00	-5.64	0.00	5.64	682.83	341.41	139.27	105.20	2.14	-0.18	0.003
111.00	-3.19	-0.20	0.00	-5.45	0.00	5.45	682.83	341.41	139.27	105.20	2.17	-0.18	0.017
111.50	-3.14	-0.20	0.00	-5.35	0.00	5.35	682.83	341.41	139.27	105.20	2.19	-0.18	0.016
111.50	-3.14	-0.20	0.00	-5.35	0.00	5.35	682.83	341.41	139.27	105.20	2.19	-0.18	0.016
112.00	-3.10	-0.20	0.00	-5.25	0.00	5.25	682.83	341.41	139.27	105.20	2.21	-0.19	0.054
113.00	-3.02	-0.20	0.00	-5.05	0.00	5.05	682.83	341.41	139.27	105.20	2.25	-0.21	0.052
114.00	-2.93	-0.20	0.00	-4.85	0.00	4.85	682.83	341.41	139.27	105.20	2.30	-0.22	0.050
115.00	-2.65	-0.20	0.00	-4.65	0.00	4.65	682.83	341.41	139.27	105.20	2.35	-0.24	0.048
116.00	-2.58	-0.20	0.00	-4.45	0.00	4.45	682.83	341.41	139.27	105.20	2.40	-0.26	0.046
117.00	-2.50	-0.20	0.00	-4.25	0.00	4.25	682.83	341.41	139.27	105.20	2.46	-0.28	0.044
118.00	-2.42	-0.20	0.00	-4.05	0.00	4.05	682.83	341.41	139.27	105.20	2.52	-0.29	0.042
119.00	-2.34	-0.20	0.00	-3.85	0.00	3.85	682.83	341.41	139.27	105.20	2.58	-0.31	0.040
120.00	-2.14	-0.20	0.00	-3.65	0.00	3.65	682.83	341.41	139.27	105.20	2.64	-0.32	0.038
121.00	-2.06	-0.20	0.00	-3.45	0.00	3.45	682.83	341.41	139.27	105.20	2.71	-0.34	0.036
122.00	-1.98	-0.19	0.00	-3.26	0.00	3.26	682.83	341.41	139.27	105.20	2.78	-0.35	0.034
123.00	-1.90	-0.19	0.00	-3.06	0.00	3.06	682.83	341.41	139.27	105.20	2.86	-0.36	0.032
124.00	-1.83	-0.19	0.00	-2.87	0.00	2.87	682.83	341.41	139.27	105.20	2.94	-0.37	0.030
125.00	-1.75	-0.19	0.00	-2.68	0.00	2.68	682.83	341.41	139.27	105.20	3.01	-0.38	0.028
126.00	-1.67	-0.19	0.00	-2.49	0.00	2.49	682.83	341.41	139.27	105.20	3.10	-0.39	0.026
127.00	-1.44	-0.17	0.00	-2.30	0.00	2.30	682.83	341.41	139.27	105.20	3.18	-0.40	0.024
128.00	-1.37	-0.17	0.00	-2.13	0.00	2.13	682.83	341.41	139.27	105.20	3.26	-0.41	0.022
129.00	-1.30	-0.17	0.00	-1.96	0.00	1.96	682.83	341.41	139.27	105.20	3.35	-0.42	0.021
130.00	-1.11	-0.15	0.00	-1.79	0.00	1.79	682.83	341.41	139.27	105.20	3.44	-0.42	0.019
130.00	-1.11	-0.15	0.00	-1.79	0.00	1.79	317.71	158.85	76.59	52.28	3.44	-0.42	0.038
131.00	-1.07	-0.15	0.00	-1.64	0.00	1.64	317.71	158.85	76.59	52.28	3.53	-0.43	0.035
132.00	-1.03	-0.15	0.00	-1.49	0.00	1.49	317.71	158.85	76.59	52.28	3.62	-0.44	0.032
133.00	-0.98	-0.14	0.00	-1.35	0.00	1.35	317.71	158.85	76.59	52.28	3.71	-0.45	0.029
134.00	-0.94	-0.14	0.00	-1.20	0.00	1.20	317.71	158.85	76.59	52.28	3.81	-0.46	0.026
135.00	-0.72	-0.12	0.00	-1.06	0.00	1.06	317.71	158.85	76.59	52.28	3.91	-0.47	0.023
136.00	-0.68	-0.11	0.00	-0.94	0.00	0.94	317.71	158.85	76.59	52.28	4.00	-0.48	0.020
137.00	-0.65	-0.11	0.00	-0.83	0.00	0.83	317.71	158.85	76.59	52.28	4.11	-0.48	0.018
138.00	-0.61	-0.11	0.00	-0.72	0.00	0.72	317.71	158.85	76.59	52.28	4.21	-0.49	0.016
139.00	-0.58	-0.10	0.00	-0.61	0.00	0.61	317.71	158.85	76.59	52.28	4.31	-0.49	0.014
140.00	-0.41	-0.07	0.00	-0.51	0.00	0.51	317.71	158.85	76.59	52.28	4.41	-0.50	0.011
141.00	-0.37	-0.07	0.00	-0.44	0.00	0.44	317.71	158.85	76.59	52.28	4.52	-0.50	0.010
142.00	-0.34	-0.07	0.00	-0.37	0.00	0.37	317.71	158.85	76.59	52.28	4.62	-0.50	0.008
143.00	-0.30	-0.06	0.00	-0.30	0.00	0.30	317.71	158.85	76.59	52.28	4.73	-0.50	0.007
144.00	-0.27	-0.06	0.00	-0.24	0.00	0.24	317.71	158.85	76.59	52.28	4.83	-0.51	0.005
145.00	-0.23	-0.05	0.00	-0.19	0.00	0.19	317.71	158.85	76.59	52.28	4.94	-0.51	0.004
146.00	-0.20	-0.04	0.00	-0.14	0.00	0.14	317.71	158.85	76.59	52.28	5.05	-0.51	0.003
147.00	-0.17	-0.04	0.00	-0.09	0.00	0.09	317.71	158.85	76.59	52.28	5.15	-0.51	0.002
148.00	-0.13	-0.03	0.00	-0.05	0.00	0.05	317.71	158.85	76.59	52.28	5.26	-0.51	0.001
149.00	-0.10	-0.02	0.00	-0.02	0.00	0.02	317.71	158.85	76.59	52.28	5.37	-0.51	0.001
150.00	0.00	-0.02	0.00	0.00	0.00	0.00	317.71	158.85	76.59	52.28	5.47	-0.51	0.000

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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



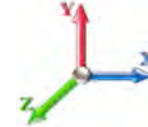
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 40

Dead Load Factor 1.00

Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
2.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
3.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
4.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
5.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
6.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
7.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
8.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
9.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
10.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
11.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
12.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
13.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
14.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
15.00		1.00	0.85	7.442	8.19	165.95	0.600	0.000	1.00	3.000	1.80	14.7	0.0	142.8
16.00		1.00	0.86	7.534	8.29	166.97	0.600	0.000	1.00	3.000	1.80	14.9	0.0	142.8
17.00		1.00	0.87	7.631	8.39	168.04	0.600	0.000	1.00	3.000	1.80	15.1	0.0	142.8
18.00		1.00	0.88	7.723	8.50	169.06	0.600	0.000	1.00	3.000	1.80	15.3	0.0	142.8
19.00		1.00	0.89	7.811	8.59	170.02	0.600	0.000	1.00	3.000	1.80	15.5	0.0	142.8
20.00	Top - Section 1	1.00	0.90	7.896	8.69	170.94	0.600	0.000	1.00	3.000	1.80	15.6	0.0	142.8
21.00		1.00	0.91	7.978	8.78	143.18	0.600	0.000	1.00	2.500	1.50	13.2	0.0	118.8
22.00		1.00	0.92	8.056	8.86	143.89	0.600	0.000	1.00	2.500	1.50	13.3	0.0	118.8
23.00		1.00	0.93	8.132	8.95	144.56	0.600	0.000	1.00	2.500	1.50	13.4	0.0	118.8
24.00		1.00	0.94	8.205	9.03	145.21	0.600	0.000	1.00	2.500	1.50	13.5	0.0	118.8
25.00		1.00	0.95	8.276	9.10	145.84	0.600	0.000	1.00	2.500	1.50	13.7	0.0	118.8
26.00		1.00	0.95	8.345	9.18	146.44	0.600	0.000	1.00	2.500	1.50	13.8	0.0	118.8
27.00		1.00	0.96	8.411	9.25	147.02	0.600	0.000	1.00	2.500	1.50	13.9	0.0	118.8
28.00		1.00	0.97	8.476	9.32	147.59	0.600	0.000	1.00	2.500	1.50	14.0	0.0	118.8
29.00		1.00	0.98	8.539	9.39	148.13	0.600	0.000	1.00	2.500	1.50	14.1	0.0	118.8
30.00		1.00	0.98	8.600	9.46	148.66	0.600	0.000	1.00	2.500	1.50	14.2	0.0	118.8
31.00		1.00	0.99	8.659	9.53	149.18	0.600	0.000	1.00	2.500	1.50	14.3	0.0	118.8
32.00		1.00	1.00	8.717	9.59	149.68	0.600	0.000	1.00	2.500	1.50	14.4	0.0	118.8
33.00		1.00	1.00	8.774	9.65	150.16	0.600	0.000	1.00	2.500	1.50	14.5	0.0	118.8
34.00		1.00	1.01	8.829	9.71	150.63	0.600	0.000	1.00	2.500	1.50	14.6	0.0	118.8
35.00		1.00	1.01	8.883	9.77	151.09	0.600	0.000	1.00	2.500	1.50	14.7	0.0	118.8
36.00		1.00	1.02	8.936	9.83	151.54	0.600	0.000	1.00	2.500	1.50	14.7	0.0	118.8
37.00		1.00	1.03	8.988	9.89	151.98	0.600	0.000	1.00	2.500	1.50	14.8	0.0	118.8
38.00		1.00	1.03	9.039	9.94	152.41	0.600	0.000	1.00	2.500	1.50	14.9	0.0	118.8
39.00		1.00	1.04	9.088	10.00	152.83	0.600	0.000	1.00	2.500	1.50	15.0	0.0	118.8
40.00		1.00	1.04	9.137	10.05	153.23	0.600	0.000	1.00	2.500	1.50	15.1	0.0	118.8
41.00		1.00	1.05	9.184	10.10	153.63	0.600	0.000	1.00	2.500	1.50	15.2	0.0	118.8
42.00		1.00	1.05	9.231	10.15	154.02	0.600	0.000	1.00	2.500	1.50	15.2	0.0	118.8
43.00		1.00	1.06	9.277	10.20	154.40	0.600	0.000	1.00	2.500	1.50	15.3	0.0	118.8
44.00		1.00	1.06	9.322	10.25	154.78	0.600	0.000	1.00	2.500	1.50	15.4	0.0	118.8
45.00		1.00	1.07	9.366	10.30	155.15	0.600	0.000	1.00	2.500	1.50	15.5	0.0	118.8
46.00		1.00	1.07	9.410	10.35	155.50	0.600	0.000	1.00	2.500	1.50	15.5	0.0	118.8

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	9.452	10.40	155.86	0.600	0.000	1.00	2.500	1.50	15.6	0.0	118.8	
48.00	1.00	1.08	9.494	10.44	156.20	0.600	0.000	1.00	2.500	1.50	15.7	0.0	118.8	
49.00	1.00	1.09	9.536	10.49	156.54	0.600	0.000	1.00	2.500	1.50	15.7	0.0	118.8	
50.00	Top - Section 2	1.00	1.09	9.576	10.53	156.88	0.600	0.000	1.00	2.500	1.50	15.8	0.0	118.8
51.00	1.00	1.10	9.616	10.58	125.76	0.600	0.000	1.00	2.000	1.20	12.7	0.0	94.7	
52.00	1.00	1.10	9.656	10.62	126.02	0.600	0.000	1.00	2.000	1.20	12.7	0.0	94.7	
53.00	1.00	1.11	9.694	10.66	126.27	0.600	0.000	1.00	2.000	1.20	12.8	0.0	94.7	
54.00	1.00	1.11	9.733	10.71	126.52	0.600	0.000	1.00	2.000	1.20	12.8	0.0	94.7	
55.00	1.00	1.12	9.770	10.75	126.77	0.600	0.000	1.00	2.000	1.20	12.9	0.0	94.7	
56.00	1.00	1.12	9.807	10.79	127.01	0.600	0.000	1.00	2.000	1.20	12.9	0.0	94.7	
57.00	1.00	1.12	9.844	10.83	127.24	0.600	0.000	1.00	2.000	1.20	13.0	0.0	94.7	
58.00	1.00	1.13	9.880	10.87	127.48	0.600	0.000	1.00	2.000	1.20	13.0	0.0	94.7	
59.00	1.00	1.13	9.916	10.91	127.71	0.600	0.000	1.00	2.000	1.20	13.1	0.0	94.7	
60.00	1.00	1.14	9.951	10.95	127.93	0.600	0.000	1.00	2.000	1.20	13.1	0.0	94.7	
61.00	1.00	1.14	9.986	10.98	128.16	0.600	0.000	1.00	2.000	1.20	13.2	0.0	94.7	
62.00	1.00	1.14	10.020	11.02	128.37	0.600	0.000	1.00	2.000	1.20	13.2	0.0	94.7	
63.00	1.00	1.15	10.054	11.06	128.59	0.600	0.000	1.00	2.000	1.20	13.3	0.0	94.7	
64.00	1.00	1.15	10.087	11.10	128.80	0.600	0.000	1.00	2.000	1.20	13.3	0.0	94.7	
65.00	1.00	1.16	10.120	11.13	129.01	0.600	0.000	1.00	2.000	1.20	13.4	0.0	94.7	
66.00	1.00	1.16	10.153	11.17	129.22	0.600	0.000	1.00	2.000	1.20	13.4	0.0	94.7	
67.00	1.00	1.16	10.185	11.20	129.43	0.600	0.000	1.00	2.000	1.20	13.4	0.0	94.7	
68.00	1.00	1.17	10.217	11.24	129.63	0.600	0.000	1.00	2.000	1.20	13.5	0.0	94.7	
69.00	1.00	1.17	10.248	11.27	129.83	0.600	0.000	1.00	2.000	1.20	13.5	0.0	94.7	
70.00	1.00	1.17	10.279	11.31	130.03	0.600	0.000	1.00	2.000	1.20	13.6	0.0	94.7	
71.00	1.00	1.18	10.310	11.34	130.22	0.600	0.000	1.00	2.000	1.20	13.6	0.0	94.7	
72.00	1.00	1.18	10.340	11.37	130.41	0.600	0.000	1.00	2.000	1.20	13.6	0.0	94.7	
73.00	1.00	1.18	10.370	11.41	130.60	0.600	0.000	1.00	2.000	1.20	13.7	0.0	94.7	
74.00	1.00	1.19	10.400	11.44	130.79	0.600	0.000	1.00	2.000	1.20	13.7	0.0	94.7	
75.00	Appurtenance(s)	1.00	1.19	10.430	11.47	130.97	0.600	0.000	1.00	2.000	1.20	13.8	0.0	94.7
76.00	1.00	1.19	10.459	11.50	131.16	0.600	0.000	1.00	2.000	1.20	13.8	0.0	94.7	
77.00	1.00	1.20	10.488	11.54	131.34	0.600	0.000	1.00	2.000	1.20	13.8	0.0	94.7	
78.00	1.00	1.20	10.516	11.57	131.51	0.600	0.000	1.00	2.000	1.20	13.9	0.0	94.7	
79.00	1.00	1.20	10.544	11.60	131.69	0.600	0.000	1.00	2.000	1.20	13.9	0.0	94.7	
80.00	Top - Section 3	1.00	1.21	10.572	11.63	131.87	0.600	0.000	1.00	2.000	1.20	14.0	0.0	94.7
81.00	1.00	1.21	10.600	11.66	132.04	0.600	0.000	1.00	2.000	1.20	14.0	0.0	94.7	
82.00	1.00	1.21	10.627	11.69	132.21	0.600	0.000	1.00	2.000	1.20	14.0	0.0	94.7	
83.00	1.00	1.22	10.654	11.72	132.38	0.600	0.000	1.00	2.000	1.20	14.1	0.0	94.7	
84.00	1.00	1.22	10.681	11.75	132.54	0.600	0.000	1.00	2.000	1.20	14.1	0.0	94.7	
85.00	1.00	1.22	10.708	11.78	132.71	0.600	0.000	1.00	2.000	1.20	14.1	0.0	94.7	
86.00	1.00	1.23	10.734	11.81	132.87	0.600	0.000	1.00	2.000	1.20	14.2	0.0	94.7	
87.00	1.00	1.23	10.761	11.84	133.04	0.600	0.000	1.00	2.000	1.20	14.2	0.0	94.7	
88.00	1.00	1.23	10.787	11.87	133.20	0.600	0.000	1.00	2.000	1.20	14.2	0.0	94.7	
89.00	1.00	1.23	10.812	11.89	133.35	0.600	0.000	1.00	2.000	1.20	14.3	0.0	94.7	
90.00	1.00	1.24	10.838	11.92	133.51	0.600	0.000	1.00	2.000	1.20	14.3	0.0	94.7	
91.00	1.00	1.24	10.863	11.95	133.67	0.600	0.000	1.00	2.000	1.20	14.3	0.0	94.7	
92.00	1.00	1.24	10.888	11.98	133.82	0.600	0.000	1.00	2.000	1.20	14.4	0.0	94.7	
93.00	1.00	1.25	10.913	12.00	133.97	0.600	0.000	1.00	2.000	1.20	14.4	0.0	94.7	
94.00	1.00	1.25	10.937	12.03	134.12	0.600	0.000	1.00	2.000	1.20	14.4	0.0	94.7	
95.00	1.00	1.25	10.962	12.06	134.27	0.600	0.000	1.00	2.000	1.20	14.5	0.0	94.7	
96.00	1.00	1.25	10.986	12.08	134.42	0.600	0.000	1.00	2.000	1.20	14.5	0.0	94.7	
97.00	1.00	1.26	11.010	12.11	134.57	0.600	0.000	1.00	2.000	1.20	14.5	0.0	94.7	
98.00	1.00	1.26	11.034	12.14	134.71	0.600	0.000	1.00	2.000	1.20	14.6	0.0	94.7	
99.00	1.00	1.26	11.057	12.16	134.86	0.600	0.000	1.00	2.000	1.20	14.6	0.0	94.7	
100.00	1.00	1.27	11.081	12.19	135.00	0.600	0.000	1.00	2.000	1.20	14.6	0.0	94.7	
101.00	1.00	1.27	11.104	12.21	135.14	0.600	0.000	1.00	2.000	1.20	14.7	0.0	94.7	
102.00	1.00	1.27	11.127	12.24	135.28	0.600	0.000	1.00	2.000	1.20	14.7	0.0	94.7	
103.00	1.00	1.27	11.150	12.26	135.42	0.600	0.000	1.00	2.000	1.20	14.7	0.0	94.7	

Wind Loading - Shaft

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	11.173	12.29	135.56	0.600	0.000	1.00	2.000	1.20	14.7	0.0	94.7
105.00	1.00	1.28	11.195	12.31	135.69	0.600	0.000	1.00	2.000	1.20	14.8	0.0	94.7
106.00	1.00	1.28	11.218	12.34	135.83	0.600	0.000	1.00	2.000	1.20	14.8	0.0	94.7
107.00	1.00	1.28	11.240	12.36	135.96	0.600	0.000	1.00	2.000	1.20	14.8	0.0	94.7
108.00 Top - Section 4	1.00	1.29	11.262	12.39	136.10	0.600	0.000	1.00	2.000	1.20	14.9	0.0	94.7
109.00	1.00	1.29	11.284	12.41	204.34	0.600	0.000	1.00	3.000	1.80	22.3	0.0	104.3
110.00 Top - Section 5 RB1	1.00	1.29	11.305	12.44	204.54	0.600	0.000	1.00	3.000	1.80	22.4	0.0	104.3
111.00	1.00	1.29	11.327	12.46	204.74	0.600	0.000	1.00	3.000	1.80	22.4	0.0	71.1
111.50 RT1	1.00	1.29	11.338	12.47	204.83	0.600	0.000	0.50	1.500	0.90	11.2	0.0	35.5
112.00	1.00	1.30	11.348	12.48	204.93	0.600	0.000	0.50	1.500	0.90	11.2	0.0	35.5
113.00	1.00	1.30	11.370	12.51	205.12	0.600	0.000	1.00	3.000	1.80	22.5	0.0	71.1
114.00	1.00	1.30	11.391	12.53	205.31	0.600	0.000	1.00	3.000	1.80	22.6	0.0	71.1
115.00 Appurtenance(s)	1.00	1.30	11.412	12.55	205.50	0.600	0.000	1.00	3.000	1.80	22.6	0.0	71.1
116.00	1.00	1.31	11.432	12.58	205.69	0.600	0.000	1.00	3.000	1.80	22.6	0.0	71.1
117.00	1.00	1.31	11.453	12.60	205.87	0.600	0.000	1.00	3.000	1.80	22.7	0.0	71.1
118.00	1.00	1.31	11.474	12.62	206.06	0.600	0.000	1.00	3.000	1.80	22.7	0.0	71.1
119.00	1.00	1.31	11.494	12.64	206.24	0.600	0.000	1.00	3.000	1.80	22.8	0.0	71.1
120.00 Appurtenance(s)	1.00	1.32	11.514	12.67	206.42	0.600	0.000	1.00	3.000	1.80	22.8	0.0	71.1
121.00	1.00	1.32	11.534	12.69	206.60	0.600	0.000	1.00	3.000	1.80	22.8	0.0	71.1
122.00	1.00	1.32	11.554	12.71	206.78	0.600	0.000	1.00	3.000	1.80	22.9	0.0	71.1
123.00	1.00	1.32	11.574	12.73	206.96	0.600	0.000	1.00	3.000	1.80	22.9	0.0	71.1
124.00	1.00	1.32	11.594	12.75	207.14	0.600	0.000	1.00	3.000	1.80	23.0	0.0	71.1
125.00	1.00	1.33	11.614	12.78	207.31	0.600	0.000	1.00	3.000	1.80	23.0	0.0	71.1
126.00	1.00	1.33	11.633	12.80	207.49	0.600	0.000	1.00	3.000	1.80	23.0	0.0	71.1
127.00 Appurtenance(s)	1.00	1.33	11.653	12.82	207.66	0.600	0.000	1.00	3.000	1.80	23.1	0.0	71.1
128.00	1.00	1.33	11.672	12.84	207.83	0.600	0.000	1.00	3.000	1.80	23.1	0.0	71.1
129.00	1.00	1.34	11.691	12.86	208.00	0.600	0.000	1.00	3.000	1.80	23.1	0.0	71.1
130.00 Top - Section 6	1.00	1.34	11.710	12.88	208.17	0.600	0.000	1.00	3.000	1.80	23.2	0.0	71.1
131.00	1.00	1.34	11.729	12.90	208.34	0.600	0.000	1.00	3.000	1.80	23.2	0.0	38.2
132.00	1.00	1.34	11.748	12.92	208.50	0.600	0.000	1.00	3.000	1.80	23.3	0.0	38.2
133.00	1.00	1.34	11.766	12.94	208.67	0.600	0.000	1.00	3.000	1.80	23.3	0.0	38.2
134.00	1.00	1.35	11.785	12.96	208.84	0.600	0.000	1.00	3.000	1.80	23.3	0.0	38.2
135.00 Appurtenance(s)	1.00	1.35	11.803	12.98	209.00	0.600	0.000	1.00	3.000	1.80	23.4	0.0	38.2
136.00	1.00	1.35	11.822	13.00	209.16	0.600	0.000	1.00	3.000	1.80	23.4	0.0	38.2
137.00	1.00	1.35	11.840	13.02	209.32	0.600	0.000	1.00	3.000	1.80	23.4	0.0	38.2
138.00	1.00	1.35	11.858	13.04	209.48	0.600	0.000	1.00	3.000	1.80	23.5	0.0	38.2
139.00	1.00	1.36	11.876	13.06	209.64	0.600	0.000	1.00	3.000	1.80	23.5	0.0	38.2
140.00 Appurtenance(s)	1.00	1.36	11.894	13.08	209.80	0.600	0.000	1.00	3.000	1.80	23.6	0.0	38.2
141.00	1.00	1.36	11.912	13.10	209.96	0.600	0.000	1.00	3.000	1.80	23.6	0.0	38.2
142.00	1.00	1.36	11.930	13.12	210.11	0.600	0.000	1.00	3.000	1.80	23.6	0.0	38.2
143.00	1.00	1.36	11.947	13.14	210.27	0.600	0.000	1.00	3.000	1.80	23.7	0.0	38.2
144.00	1.00	1.37	11.965	13.16	210.42	0.600	0.000	1.00	3.000	1.80	23.7	0.0	38.2
145.00	1.00	1.37	11.982	13.18	210.58	0.600	0.000	1.00	3.000	1.80	23.7	0.0	38.2
146.00	1.00	1.37	12.000	13.20	210.73	0.600	0.000	1.00	3.000	1.80	23.8	0.0	38.2
147.00	1.00	1.37	12.017	13.22	210.88	0.600	0.000	1.00	3.000	1.80	23.8	0.0	38.2
148.00	1.00	1.37	12.034	13.24	211.03	0.600	0.000	1.00	3.000	1.80	23.8	0.0	38.2
149.00	1.00	1.38	12.051	13.26	211.18	0.600	0.000	1.00	3.000	1.80	23.9	0.0	38.2
150.00 Appurtenance(s)	1.00	1.38	12.068	13.27	211.33	0.600	0.000	1.00	3.000	1.80	23.9	0.0	38.2
Totals:								150.00			2,513.8		14,306.1

Discrete Appurtenance Forces

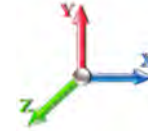
Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
Site Name: Central Hebron	Exposure: C	
Height: 150.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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

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	Truck Ball	1	12.077	13.284	1.00	1.00	1.41	5.00	0.000	0.500	18.73	0.00	9.37
2	150.00	36" Canister Weight	1	12.068	13.275	1.00	1.00	0.00	64.57	0.000	0.000	0.00	0.00	0.00
3	140.00	Flag	1	11.894	13.084	1.00	1.00	5.56	25.00	0.000	0.000	72.74	0.00	0.00
4	140.00	36" Canister Weight	1	11.894	13.084	1.00	1.00	0.00	129.14	0.000	0.000	0.00	0.00	0.00
5	135.00	Flush Mount	1	11.803	12.984	0.00	1.00	0.00	25.00	0.000	0.000	0.00	0.00	0.00
6	135.00	DB-T1-6Z-8AB-0Z	2	11.803	12.984	0.00	1.00	0.00	37.80	0.000	0.000	0.00	0.00	0.00
7	135.00	FDL85002/1C-3L	6	11.803	12.984	0.00	1.00	0.00	42.00	0.000	0.000	0.00	0.00	0.00
8	135.00	SBNHH-1D65A	3	11.803	12.984	0.00	1.00	0.00	100.50	0.000	0.000	0.00	0.00	0.00
9	130.00	36" Canister Weight	1	11.710	12.881	1.00	1.00	0.00	129.14	0.000	0.000	0.00	0.00	0.00
10	127.00	Flush Mount	1	11.653	12.818	0.00	1.00	0.00	25.00	0.000	0.000	0.00	0.00	0.00
11	127.00	ATSBT-TOP-FM	3	11.653	12.818	0.00	1.00	0.00	5.40	0.000	0.000	0.00	0.00	0.00
12	127.00	CBC426T-DS-43	6	11.653	12.818	0.00	1.00	0.00	43.80	0.000	0.000	0.00	0.00	0.00
13	127.00	D2WC-21 (2LB+4MB)	3	11.653	12.818	0.00	1.00	0.00	92.70	0.000	0.000	0.00	0.00	0.00
14	120.00	36" Canister Weight	1	11.514	12.666	1.00	1.00	0.00	129.14	0.000	0.000	0.00	0.00	0.00
15	115.00	Flush Mount	1	11.412	12.553	0.00	1.00	0.00	25.00	0.000	0.000	0.00	0.00	0.00
16	115.00	LGP21401	6	11.412	12.553	0.00	1.00	0.00	84.60	0.000	0.000	0.00	0.00	0.00
17	115.00	7770.00	3	11.412	12.553	0.00	1.00	0.00	105.00	0.000	0.000	0.00	0.00	0.00
18	110.00	36" Canister Weight	1	11.305	12.436	1.00	1.00	0.00	77.48	0.000	0.000	0.00	0.00	0.00
19	108.00	36" Canister Weight	1	11.262	12.388	1.00	1.00	0.00	12.91	0.000	0.000	0.00	0.00	0.00
20	75.00	GPS	1	10.430	11.473	0.80	0.80	0.80	10.00	0.000	0.000	9.18	0.00	0.00

Totals: 1,169.18

100.65

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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		14.74	165.75	0.00	0.00
2.00		14.74	165.75	0.00	0.00
3.00		14.74	165.75	0.00	0.00
4.00		14.74	165.75	0.00	0.00
5.00		14.74	165.75	0.00	0.00
6.00		14.74	165.75	0.00	0.00
7.00		14.74	165.75	0.00	0.00
8.00		14.74	165.75	0.00	0.00
9.00		14.74	165.75	0.00	0.00
10.00		14.74	165.75	0.00	0.00
11.00		14.74	165.75	0.00	0.00
12.00		14.74	165.75	0.00	0.00
13.00		14.74	165.75	0.00	0.00
14.00		14.74	165.75	0.00	0.00
15.00		14.74	165.75	0.00	0.00
16.00		14.92	165.75	0.00	0.00
17.00		15.11	165.75	0.00	0.00
18.00		15.29	165.75	0.00	0.00
19.00		15.47	165.75	0.00	0.00
20.00		15.63	165.75	0.00	0.00
21.00		13.16	141.70	0.00	0.00
22.00		13.29	141.70	0.00	0.00
23.00		13.42	141.70	0.00	0.00
24.00		13.54	141.70	0.00	0.00
25.00		13.66	141.70	0.00	0.00
26.00		13.77	141.70	0.00	0.00
27.00		13.88	141.70	0.00	0.00
28.00		13.99	141.70	0.00	0.00
29.00		14.09	141.70	0.00	0.00
30.00		14.19	141.70	0.00	0.00
31.00		14.29	141.70	0.00	0.00
32.00		14.38	141.70	0.00	0.00
33.00		14.48	141.70	0.00	0.00
34.00		14.57	141.70	0.00	0.00
35.00		14.66	141.70	0.00	0.00
36.00		14.74	141.70	0.00	0.00
37.00		14.83	141.70	0.00	0.00
38.00		14.91	141.70	0.00	0.00
39.00		15.00	141.70	0.00	0.00
40.00		15.08	141.70	0.00	0.00
41.00		15.15	141.70	0.00	0.00
42.00		15.23	141.70	0.00	0.00
43.00		15.31	141.70	0.00	0.00
44.00		15.38	141.70	0.00	0.00
45.00		15.45	141.70	0.00	0.00
46.00		15.53	141.70	0.00	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	15.60	141.70	0.00	0.00
48.00	15.67	141.70	0.00	0.00
49.00	15.73	141.70	0.00	0.00
50.00	15.80	141.70	0.00	0.00
51.00	12.69	117.65	0.00	0.00
52.00	12.75	117.65	0.00	0.00
53.00	12.80	117.65	0.00	0.00
54.00	12.85	117.65	0.00	0.00
55.00	12.90	117.65	0.00	0.00
56.00	12.95	117.65	0.00	0.00
57.00	12.99	117.65	0.00	0.00
58.00	13.04	117.65	0.00	0.00
59.00	13.09	117.65	0.00	0.00
60.00	13.14	117.65	0.00	0.00
61.00	13.18	117.65	0.00	0.00
62.00	13.23	117.65	0.00	0.00
63.00	13.27	117.65	0.00	0.00
64.00	13.31	117.65	0.00	0.00
65.00	13.36	117.65	0.00	0.00
66.00	13.40	117.65	0.00	0.00
67.00	13.44	117.65	0.00	0.00
68.00	13.49	117.65	0.00	0.00
69.00	13.53	117.65	0.00	0.00
70.00	13.57	117.65	0.00	0.00
71.00	13.61	117.65	0.00	0.00
72.00	13.65	117.65	0.00	0.00
73.00	13.69	117.65	0.00	0.00
74.00	13.73	117.65	0.00	0.00
75.00	(1) attachments	22.95	127.65	0.00
76.00		13.81	117.49	0.00
77.00		13.84	117.49	0.00
78.00		13.88	117.49	0.00
79.00		13.92	117.49	0.00
80.00		13.96	117.49	0.00
81.00		13.99	117.49	0.00
82.00		14.03	117.49	0.00
83.00		14.06	117.49	0.00
84.00		14.10	117.49	0.00
85.00		14.13	117.49	0.00
86.00		14.17	117.49	0.00
87.00		14.20	117.49	0.00
88.00		14.24	117.49	0.00
89.00		14.27	117.49	0.00
90.00		14.31	117.49	0.00
91.00		14.34	117.49	0.00
92.00		14.37	117.49	0.00
93.00		14.40	117.49	0.00
94.00		14.44	117.49	0.00
95.00		14.47	117.49	0.00
96.00		14.50	117.49	0.00
97.00		14.53	117.49	0.00
98.00		14.56	117.49	0.00
99.00		14.60	117.49	0.00
100.00		14.63	117.49	0.00
101.00		14.66	117.49	0.00
102.00		14.69	117.49	0.00
103.00		14.72	117.49	0.00

Total Applied Force Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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		14.75	117.49	0.00	0.00
105.00		14.78	117.49	0.00	0.00
106.00		14.81	117.49	0.00	0.00
107.00		14.84	117.49	0.00	0.00
108.00	(1) attachments	14.87	130.40	0.00	0.00
109.00		22.34	127.09	0.00	0.00
110.00	(1) attachments	22.38	204.57	0.00	0.00
111.00		22.43	93.85	0.00	0.00
111.50		11.22	46.92	0.00	0.00
112.00		11.23	46.92	0.00	0.00
113.00		22.51	93.85	0.00	0.00
114.00		22.55	93.85	0.00	0.00
115.00	(10) attachments	22.60	308.45	0.00	0.00
116.00		22.64	87.97	0.00	0.00
117.00		22.68	87.97	0.00	0.00
118.00		22.72	87.97	0.00	0.00
119.00		22.76	87.97	0.00	0.00
120.00	(1) attachments	22.80	217.11	0.00	0.00
121.00		22.84	87.97	0.00	0.00
122.00		22.88	87.97	0.00	0.00
123.00		22.92	87.97	0.00	0.00
124.00		22.96	87.97	0.00	0.00
125.00		23.00	87.97	0.00	0.00
126.00		23.03	87.97	0.00	0.00
127.00	(13) attachments	23.07	254.87	0.00	0.00
128.00		23.11	79.03	0.00	0.00
129.00		23.15	79.03	0.00	0.00
130.00	(1) attachments	23.19	208.17	0.00	0.00
131.00		23.22	46.16	0.00	0.00
132.00		23.26	46.16	0.00	0.00
133.00		23.30	46.16	0.00	0.00
134.00		23.33	46.16	0.00	0.00
135.00	(12) attachments	23.37	251.46	0.00	0.00
136.00		23.41	38.20	0.00	0.00
137.00		23.44	38.20	0.00	0.00
138.00		23.48	38.20	0.00	0.00
139.00		23.51	38.20	0.00	0.00
140.00	(2) attachments	96.29	192.34	0.00	0.00
141.00		23.59	38.20	0.00	0.00
142.00		23.62	38.20	0.00	0.00
143.00		23.66	38.20	0.00	0.00
144.00		23.69	38.20	0.00	0.00
145.00		23.73	38.20	0.00	0.00
146.00		23.76	38.20	0.00	0.00
147.00		23.79	38.20	0.00	0.00
148.00		23.83	38.20	0.00	0.00
149.00		23.86	38.20	0.00	0.00
150.00	(2) attachments	42.63	107.77	0.00	9.37
Totals:		2,614.41	18,373.50	0.00	9.37

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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



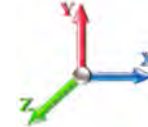
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 40

Dead Load Factor 1.00

Wind Load Factor 1.00



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	-18.37	-2.62	0.00	-234.17	0.00	234.17	1490.10	745.05	2187.51	1339.68	0.00	0.000	0.000	0.187
1.00	-18.21	-2.60	0.00	-231.56	0.00	231.56	1490.10	745.05	2187.51	1339.68	0.00	-0.010	0.000	0.185
2.00	-18.04	-2.59	0.00	-228.96	0.00	228.96	1490.10	745.05	2187.51	1339.68	0.00	-0.020	0.000	0.183
3.00	-17.87	-2.58	0.00	-226.36	0.00	226.36	1490.10	745.05	2187.51	1339.68	0.01	-0.029	0.000	0.181
4.00	-17.71	-2.57	0.00	-223.78	0.00	223.78	1490.10	745.05	2187.51	1339.68	0.02	-0.039	0.000	0.179
5.00	-17.54	-2.56	0.00	-221.22	0.00	221.22	1490.10	745.05	2187.51	1339.68	0.03	-0.049	0.000	0.177
6.00	-17.38	-2.54	0.00	-218.66	0.00	218.66	1490.10	745.05	2187.51	1339.68	0.04	-0.058	0.000	0.175
7.00	-17.21	-2.53	0.00	-216.12	0.00	216.12	1490.10	745.05	2187.51	1339.68	0.05	-0.067	0.000	0.173
8.00	-17.04	-2.52	0.00	-213.58	0.00	213.58	1490.10	745.05	2187.51	1339.68	0.07	-0.076	0.000	0.171
9.00	-16.88	-2.51	0.00	-211.06	0.00	211.06	1490.10	745.05	2187.51	1339.68	0.08	-0.086	0.000	0.169
10.00	-16.71	-2.49	0.00	-208.56	0.00	208.56	1490.10	745.05	2187.51	1339.68	0.10	-0.094	0.000	0.167
11.00	-16.55	-2.48	0.00	-206.06	0.00	206.06	1490.10	745.05	2187.51	1339.68	0.12	-0.103	0.000	0.165
12.00	-16.38	-2.47	0.00	-203.58	0.00	203.58	1490.10	745.05	2187.51	1339.68	0.14	-0.112	0.000	0.163
13.00	-16.21	-2.46	0.00	-201.11	0.00	201.11	1490.10	745.05	2187.51	1339.68	0.17	-0.121	0.000	0.161
14.00	-16.05	-2.44	0.00	-198.65	0.00	198.65	1490.10	745.05	2187.51	1339.68	0.20	-0.129	0.000	0.159
15.00	-15.88	-2.43	0.00	-196.21	0.00	196.21	1490.10	745.05	2187.51	1339.68	0.22	-0.138	0.000	0.157
16.00	-15.72	-2.42	0.00	-193.78	0.00	193.78	1490.10	745.05	2187.51	1339.68	0.25	-0.146	0.000	0.155
17.00	-15.55	-2.41	0.00	-191.36	0.00	191.36	1490.10	745.05	2187.51	1339.68	0.28	-0.154	0.000	0.153
18.00	-15.38	-2.39	0.00	-188.95	0.00	188.95	1490.10	745.05	2187.51	1339.68	0.32	-0.162	0.000	0.151
19.00	-15.22	-2.38	0.00	-186.56	0.00	186.56	1490.10	745.05	2187.51	1339.68	0.35	-0.170	0.000	0.149
20.00	-15.05	-2.36	0.00	-184.18	0.00	184.18	1490.10	745.05	2187.51	1339.68	0.39	-0.178	0.000	0.148
20.00	-15.05	-2.36	0.00	-184.18	0.00	184.18	1311.06	655.53	1597.15	948.43	0.39	-0.178	0.000	0.206
21.00	-14.91	-2.35	0.00	-181.82	0.00	181.82	1311.06	655.53	1597.15	948.43	0.43	-0.186	0.000	0.203
22.00	-14.77	-2.34	0.00	-179.47	0.00	179.47	1311.06	655.53	1597.15	948.43	0.47	-0.199	0.000	0.200
23.00	-14.62	-2.33	0.00	-177.12	0.00	177.12	1311.06	655.53	1597.15	948.43	0.51	-0.213	0.000	0.198
24.00	-14.48	-2.32	0.00	-174.79	0.00	174.79	1311.06	655.53	1597.15	948.43	0.56	-0.226	0.000	0.195
25.00	-14.34	-2.31	0.00	-172.47	0.00	172.47	1311.06	655.53	1597.15	948.43	0.61	-0.239	0.000	0.193
26.00	-14.20	-2.30	0.00	-170.16	0.00	170.16	1311.06	655.53	1597.15	948.43	0.66	-0.251	0.000	0.190
27.00	-14.06	-2.29	0.00	-167.86	0.00	167.86	1311.06	655.53	1597.15	948.43	0.71	-0.264	0.000	0.188
28.00	-13.91	-2.28	0.00	-165.57	0.00	165.57	1311.06	655.53	1597.15	948.43	0.77	-0.276	0.000	0.185
29.00	-13.77	-2.26	0.00	-163.30	0.00	163.30	1311.06	655.53	1597.15	948.43	0.83	-0.289	0.000	0.183
30.00	-13.63	-2.25	0.00	-161.03	0.00	161.03	1311.06	655.53	1597.15	948.43	0.89	-0.301	0.000	0.180
31.00	-13.49	-2.24	0.00	-158.78	0.00	158.78	1311.06	655.53	1597.15	948.43	0.95	-0.312	0.000	0.178
32.00	-13.35	-2.23	0.00	-156.54	0.00	156.54	1311.06	655.53	1597.15	948.43	1.02	-0.324	0.000	0.175
33.00	-13.20	-2.21	0.00	-154.31	0.00	154.31	1311.06	655.53	1597.15	948.43	1.09	-0.336	0.000	0.173
34.00	-13.06	-2.20	0.00	-152.10	0.00	152.10	1311.06	655.53	1597.15	948.43	1.16	-0.347	0.000	0.170
35.00	-12.92	-2.19	0.00	-149.90	0.00	149.90	1311.06	655.53	1597.15	948.43	1.23	-0.358	0.000	0.168
36.00	-12.78	-2.18	0.00	-147.71	0.00	147.71	1311.06	655.53	1597.15	948.43	1.31	-0.369	0.000	0.165
37.00	-12.64	-2.16	0.00	-145.53	0.00	145.53	1311.06	655.53	1597.15	948.43	1.39	-0.380	0.000	0.163
38.00	-12.49	-2.15	0.00	-143.37	0.00	143.37	1311.06	655.53	1597.15	948.43	1.47	-0.391	0.000	0.161
39.00	-12.35	-2.13	0.00	-141.22	0.00	141.22	1311.06	655.53	1597.15	948.43	1.55	-0.402	0.000	0.158
40.00	-12.21	-2.12	0.00	-139.09	0.00	139.09	1311.06	655.53	1597.15	948.43	1.64	-0.412	0.000	0.156
41.00	-12.07	-2.11	0.00	-136.97	0.00	136.97	1311.06	655.53	1597.15	948.43	1.73	-0.422	0.000	0.154
42.00	-11.93	-2.09	0.00	-134.86	0.00	134.86	1311.06	655.53	1597.15	948.43	1.82	-0.432	0.000	0.151
43.00	-11.78	-2.08	0.00	-132.77	0.00	132.77	1311.06	655.53	1597.15	948.43	1.91	-0.442	0.000	0.149
44.00	-11.64	-2.06	0.00	-130.69	0.00	130.69	1311.06	655.53	1597.15	948.43	2.00	-0.452	0.000	0.147
45.00	-11.50	-2.05	0.00	-128.63	0.00	128.63	1311.06	655.53	1597.15	948.43	2.10	-0.462	0.000	0.144
46.00	-11.36	-2.03	0.00	-126.58	0.00	126.58	1311.06	655.53	1597.15	948.43	2.19	-0.471	0.000	0.142

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-11.22	-2.02	0.00	-124.54	0.00	124.54	1311.06	655.53	1597.15	948.43	2.29	-0.480	0.000	0.140
48.00	-11.07	-2.00	0.00	-122.52	0.00	122.52	1311.06	655.53	1597.15	948.43	2.40	-0.490	0.000	0.138
49.00	-10.93	-1.99	0.00	-120.52	0.00	120.52	1311.06	655.53	1597.15	948.43	2.50	-0.499	0.000	0.135
50.00	-10.79	-1.97	0.00	-118.53	0.00	118.53	1311.06	655.53	1597.15	948.43	2.60	-0.507	0.000	0.133
50.00	-10.79	-1.97	0.00	-118.53	0.00	118.53	1052.07	526.04	1018.84	624.04	2.60	-0.507	0.000	0.200
51.00	-10.67	-1.96	0.00	-116.56	0.00	116.56	1052.07	526.04	1018.84	624.04	2.71	-0.516	0.000	0.197
52.00	-10.55	-1.95	0.00	-114.59	0.00	114.59	1052.07	526.04	1018.84	624.04	2.82	-0.533	0.000	0.194
53.00	-10.44	-1.94	0.00	-112.64	0.00	112.64	1052.07	526.04	1018.84	624.04	2.93	-0.550	0.000	0.190
54.00	-10.32	-1.93	0.00	-110.70	0.00	110.70	1052.07	526.04	1018.84	624.04	3.05	-0.566	0.000	0.187
55.00	-10.20	-1.92	0.00	-108.77	0.00	108.77	1052.07	526.04	1018.84	624.04	3.17	-0.582	0.000	0.184
56.00	-10.08	-1.91	0.00	-106.85	0.00	106.85	1052.07	526.04	1018.84	624.04	3.30	-0.598	0.000	0.181
57.00	-9.96	-1.90	0.00	-104.95	0.00	104.95	1052.07	526.04	1018.84	624.04	3.42	-0.613	0.000	0.178
58.00	-9.85	-1.88	0.00	-103.05	0.00	103.05	1052.07	526.04	1018.84	624.04	3.55	-0.629	0.000	0.175
59.00	-9.73	-1.87	0.00	-101.17	0.00	101.17	1052.07	526.04	1018.84	624.04	3.69	-0.644	0.000	0.171
60.00	-9.61	-1.86	0.00	-99.30	0.00	99.30	1052.07	526.04	1018.84	624.04	3.82	-0.658	0.000	0.168
61.00	-9.49	-1.85	0.00	-97.44	0.00	97.44	1052.07	526.04	1018.84	624.04	3.96	-0.673	0.000	0.165
62.00	-9.37	-1.84	0.00	-95.59	0.00	95.59	1052.07	526.04	1018.84	624.04	4.10	-0.687	0.000	0.162
63.00	-9.26	-1.82	0.00	-93.75	0.00	93.75	1052.07	526.04	1018.84	624.04	4.25	-0.701	0.000	0.159
64.00	-9.14	-1.81	0.00	-91.93	0.00	91.93	1052.07	526.04	1018.84	624.04	4.40	-0.714	0.000	0.156
65.00	-9.02	-1.80	0.00	-90.12	0.00	90.12	1052.07	526.04	1018.84	624.04	4.55	-0.728	0.000	0.153
66.00	-8.90	-1.78	0.00	-88.32	0.00	88.32	1052.07	526.04	1018.84	624.04	4.70	-0.741	0.000	0.150
67.00	-8.78	-1.77	0.00	-86.54	0.00	86.54	1052.07	526.04	1018.84	624.04	4.86	-0.753	0.000	0.147
68.00	-8.67	-1.76	0.00	-84.77	0.00	84.77	1052.07	526.04	1018.84	624.04	5.02	-0.766	0.000	0.144
69.00	-8.55	-1.75	0.00	-83.01	0.00	83.01	1052.07	526.04	1018.84	624.04	5.18	-0.778	0.000	0.141
70.00	-8.43	-1.73	0.00	-81.26	0.00	81.26	1052.07	526.04	1018.84	624.04	5.34	-0.790	0.000	0.138
71.00	-8.31	-1.72	0.00	-79.53	0.00	79.53	1052.07	526.04	1018.84	624.04	5.51	-0.802	0.000	0.135
72.00	-8.20	-1.70	0.00	-77.81	0.00	77.81	1052.07	526.04	1018.84	624.04	5.68	-0.814	0.000	0.132
73.00	-8.08	-1.69	0.00	-76.11	0.00	76.11	1052.07	526.04	1018.84	624.04	5.85	-0.825	0.000	0.130
74.00	-7.96	-1.68	0.00	-74.42	0.00	74.42	1052.07	526.04	1018.84	624.04	6.03	-0.836	0.000	0.127
75.00	-7.83	-1.65	0.00	-72.74	0.00	72.74	1052.07	526.04	1018.84	624.04	6.20	-0.847	0.000	0.124
76.00	-7.71	-1.64	0.00	-71.09	0.00	71.09	1052.07	526.04	1018.84	624.04	6.38	-0.857	0.000	0.121
77.00	-7.60	-1.62	0.00	-69.45	0.00	69.45	1052.07	526.04	1018.84	624.04	6.56	-0.867	0.000	0.119
78.00	-7.48	-1.61	0.00	-67.82	0.00	67.82	1052.07	526.04	1018.84	624.04	6.74	-0.878	0.000	0.116
79.00	-7.36	-1.60	0.00	-66.21	0.00	66.21	1052.07	526.04	1018.84	624.04	6.93	-0.887	0.000	0.113
80.00	-7.24	-1.58	0.00	-64.62	0.00	64.62	1052.07	526.04	1018.84	624.04	7.12	-0.897	0.000	0.110
80.00	-7.24	-1.58	0.00	-64.62	0.00	64.62	1052.07	526.04	1018.84	624.04	7.12	-0.897	0.000	0.110
81.00	-7.13	-1.57	0.00	-63.04	0.00	63.04	1052.07	526.04	1018.84	624.04	7.31	-0.906	0.000	0.108
82.00	-7.01	-1.55	0.00	-61.47	0.00	61.47	1052.07	526.04	1018.84	624.04	7.50	-0.915	0.000	0.105
83.00	-6.89	-1.54	0.00	-59.92	0.00	59.92	1052.07	526.04	1018.84	624.04	7.69	-0.924	0.000	0.103
84.00	-6.77	-1.52	0.00	-58.38	0.00	58.38	1052.07	526.04	1018.84	624.04	7.88	-0.933	0.000	0.100
85.00	-6.66	-1.51	0.00	-56.86	0.00	56.86	1052.07	526.04	1018.84	624.04	8.08	-0.941	0.000	0.097
86.00	-6.54	-1.49	0.00	-55.35	0.00	55.35	1052.07	526.04	1018.84	624.04	8.28	-0.950	0.000	0.095
87.00	-6.42	-1.48	0.00	-53.86	0.00	53.86	1052.07	526.04	1018.84	624.04	8.48	-0.958	0.000	0.092
88.00	-6.31	-1.46	0.00	-52.38	0.00	52.38	1052.07	526.04	1018.84	624.04	8.68	-0.965	0.000	0.090
89.00	-6.19	-1.45	0.00	-50.92	0.00	50.92	1052.07	526.04	1018.84	624.04	8.88	-0.973	0.000	0.087
90.00	-6.07	-1.43	0.00	-49.48	0.00	49.48	1052.07	526.04	1018.84	624.04	9.09	-0.980	0.000	0.085
91.00	-5.95	-1.41	0.00	-48.04	0.00	48.04	1052.07	526.04	1018.84	624.04	9.29	-0.987	0.000	0.083
92.00	-5.84	-1.40	0.00	-46.63	0.00	46.63	1052.07	526.04	1018.84	624.04	9.50	-0.994	0.000	0.080
93.00	-5.72	-1.38	0.00	-45.23	0.00	45.23	1052.07	526.04	1018.84	624.04	9.71	-1.001	0.000	0.078
94.00	-5.60	-1.37	0.00	-43.85	0.00	43.85	1052.07	526.04	1018.84	624.04	9.92	-1.008	0.000	0.076
95.00	-5.48	-1.35	0.00	-42.48	0.00	42.48	1052.07	526.04	1018.84	624.04	10.13	-1.014	0.000	0.073
96.00	-5.37	-1.34	0.00	-41.13	0.00	41.13	1052.07	526.04	1018.84	624.04	10.34	-1.020	0.000	0.071
97.00	-5.25	-1.32	0.00	-39.79	0.00	39.79	1052.07	526.04	1018.84	624.04	10.56	-1.026	0.000	0.069
98.00	-5.13	-1.30	0.00	-38.47	0.00	38.47	1052.07	526.04	1018.84	624.04	10.77	-1.032	0.000	0.067
99.00	-5.01	-1.29	0.00	-37.17	0.00	37.17	1052.07	526.04	1018.84	624.04	10.99	-1.037	0.000	0.064
100.00	-4.90	-1.27	0.00	-35.88	0.00	35.88	1052.07	526.04	1018.84	624.04	11.21	-1.043	0.000	0.062
101.00	-4.78	-1.25	0.00	-34.61	0.00	34.61	1052.07	526.04	1018.84	624.04	11.43	-1.048	0.000	0.060

Calculated Forces

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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	-4.66	-1.24	0.00	-33.36	0.00	33.36	1052.07	526.04	1018.84	624.04	11.65	-1.053	0.000	0.058
103.00	-4.54	-1.22	0.00	-32.12	0.00	32.12	1052.07	526.04	1018.84	624.04	11.87	-1.057	0.000	0.056
104.00	-4.43	-1.20	0.00	-30.90	0.00	30.90	1052.07	526.04	1018.84	624.04	12.09	-1.062	0.000	0.054
105.00	-4.31	-1.19	0.00	-29.70	0.00	29.70	1052.07	526.04	1018.84	624.04	12.31	-1.067	0.000	0.052
106.00	-4.19	-1.17	0.00	-28.51	0.00	28.51	1052.07	526.04	1018.84	624.04	12.54	-1.071	0.000	0.050
107.00	-4.08	-1.15	0.00	-27.34	0.00	27.34	1052.07	526.04	1018.84	624.04	12.76	-1.075	0.000	0.048
108.00	-3.95	-1.14	0.00	-26.18	0.00	26.18	1052.07	526.04	1018.84	624.04	12.99	-1.079	0.000	0.046
108.00	-3.95	-1.14	0.00	-26.18	0.00	26.18	1052.07	526.04	1018.84	624.04	12.99	-1.079	0.000	0.046
109.00	-3.82	-1.11	0.00	-25.04	0.00	25.04	1052.07	526.04	1018.84	624.04	13.21	-1.083	0.000	0.044
110.00	-3.61	-1.09	0.00	-23.93	0.00	23.93	1052.07	526.04	1018.84	624.04	13.44	-1.086	0.000	0.026
110.00	-3.61	-1.09	0.00	-23.93	0.00	23.93	682.83	341.41	139.27	105.20	13.44	-1.086	0.000	0.008
111.00	-3.52	-1.06	0.00	-22.84	0.00	22.84	682.83	341.41	139.27	105.20	13.67	-1.088	0.000	0.061
111.50	-3.47	-1.05	0.00	-22.31	0.00	22.31	682.83	341.41	139.27	105.20	13.78	-1.100	0.000	0.060
111.50	-3.47	-1.05	0.00	-22.31	0.00	22.31	682.83	341.41	139.27	105.20	13.78	-1.100	0.000	0.060
112.00	-3.43	-1.04	0.00	-21.79	0.00	21.79	682.83	341.41	139.27	105.20	13.90	-1.111	0.000	0.212
113.00	-3.33	-1.02	0.00	-20.74	0.00	20.74	682.83	341.41	139.27	105.20	14.14	-1.192	0.000	0.202
114.00	-3.24	-1.00	0.00	-19.72	0.00	19.72	682.83	341.41	139.27	105.20	14.40	-1.269	0.000	0.192
115.00	-2.93	-0.98	0.00	-18.72	0.00	18.72	682.83	341.41	139.27	105.20	14.67	-1.342	0.000	0.182
116.00	-2.84	-0.96	0.00	-17.74	0.00	17.74	682.83	341.41	139.27	105.20	14.96	-1.411	0.000	0.173
117.00	-2.75	-0.93	0.00	-16.79	0.00	16.79	682.83	341.41	139.27	105.20	15.26	-1.477	0.000	0.164
118.00	-2.66	-0.91	0.00	-15.85	0.00	15.85	682.83	341.41	139.27	105.20	15.58	-1.539	0.000	0.155
119.00	-2.57	-0.89	0.00	-14.94	0.00	14.94	682.83	341.41	139.27	105.20	15.91	-1.598	0.000	0.146
120.00	-2.36	-0.86	0.00	-14.05	0.00	14.05	682.83	341.41	139.27	105.20	16.25	-1.653	0.000	0.137
121.00	-2.27	-0.84	0.00	-13.19	0.00	13.19	682.83	341.41	139.27	105.20	16.60	-1.705	0.000	0.129
122.00	-2.18	-0.81	0.00	-12.35	0.00	12.35	682.83	341.41	139.27	105.20	16.96	-1.754	0.000	0.121
123.00	-2.09	-0.79	0.00	-11.54	0.00	11.54	682.83	341.41	139.27	105.20	17.33	-1.799	0.000	0.113
124.00	-2.01	-0.77	0.00	-10.75	0.00	10.75	682.83	341.41	139.27	105.20	17.71	-1.842	0.000	0.105
125.00	-1.92	-0.74	0.00	-9.98	0.00	9.98	682.83	341.41	139.27	105.20	18.10	-1.881	0.000	0.098
126.00	-1.83	-0.72	0.00	-9.24	0.00	9.24	682.83	341.41	139.27	105.20	18.50	-1.918	0.000	0.091
127.00	-1.58	-0.69	0.00	-8.52	0.00	8.52	682.83	341.41	139.27	105.20	18.91	-1.952	0.000	0.083
128.00	-1.50	-0.66	0.00	-7.84	0.00	7.84	682.83	341.41	139.27	105.20	19.32	-1.983	0.000	0.077
129.00	-1.42	-0.64	0.00	-7.17	0.00	7.17	682.83	341.41	139.27	105.20	19.74	-2.011	0.000	0.070
130.00	-1.21	-0.61	0.00	-6.54	0.00	6.54	682.83	341.41	139.27	105.20	20.16	-2.037	0.000	0.064
130.00	-1.21	-0.61	0.00	-6.54	0.00	6.54	317.71	158.85	76.59	52.28	20.16	-2.037	0.000	0.129
131.00	-1.17	-0.58	0.00	-5.93	0.00	5.93	317.71	158.85	76.59	52.28	20.59	-2.061	0.000	0.117
132.00	-1.12	-0.56	0.00	-5.35	0.00	5.35	317.71	158.85	76.59	52.28	21.03	-2.101	0.000	0.106
133.00	-1.07	-0.53	0.00	-4.79	0.00	4.79	317.71	158.85	76.59	52.28	21.47	-2.137	0.000	0.095
134.00	-1.03	-0.51	0.00	-4.26	0.00	4.26	317.71	158.85	76.59	52.28	21.92	-2.169	0.000	0.085
135.00	-0.78	-0.48	0.00	-3.75	0.00	3.75	317.71	158.85	76.59	52.28	22.38	-2.197	0.000	0.074
136.00	-0.74	-0.45	0.00	-3.27	0.00	3.27	317.71	158.85	76.59	52.28	22.84	-2.222	0.000	0.065
137.00	-0.70	-0.43	0.00	-2.82	0.00	2.82	317.71	158.85	76.59	52.28	23.31	-2.243	0.000	0.056
138.00	-0.67	-0.40	0.00	-2.40	0.00	2.40	317.71	158.85	76.59	52.28	23.78	-2.262	0.000	0.048
139.00	-0.63	-0.38	0.00	-1.99	0.00	1.99	317.71	158.85	76.59	52.28	24.26	-2.277	0.000	0.040
140.00	-0.44	-0.27	0.00	-1.62	0.00	1.62	317.71	158.85	76.59	52.28	24.73	-2.290	0.000	0.032
141.00	-0.40	-0.25	0.00	-1.34	0.00	1.34	317.71	158.85	76.59	52.28	25.21	-2.300	0.000	0.027
142.00	-0.37	-0.22	0.00	-1.09	0.00	1.09	317.71	158.85	76.59	52.28	25.70	-2.309	0.000	0.022
143.00	-0.33	-0.20	0.00	-0.87	0.00	0.87	317.71	158.85	76.59	52.28	26.18	-2.316	0.000	0.018
144.00	-0.29	-0.17	0.00	-0.67	0.00	0.67	317.71	158.85	76.59	52.28	26.67	-2.321	0.000	0.014
145.00	-0.25	-0.15	0.00	-0.50	0.00	0.50	317.71	158.85	76.59	52.28	27.15	-2.325	0.000	0.010
146.00	-0.22	-0.12	0.00	-0.35	0.00	0.35	317.71	158.85	76.59	52.28	27.64	-2.328	0.000	0.007
147.00	-0.18	-0.10	0.00	-0.23	0.00	0.23	317.71	158.85	76.59	52.28	28.13	-2.330	0.000	0.005
148.00	-0.14	-0.07	0.00	-0.13	0.00	0.13	317.71	158.85	76.59	52.28	28.62	-2.332	0.000	0.003
149.00	-0.11	-0.05	0.00	-0.06	0.00	0.06	317.71	158.85	76.59	52.28	29.10	-2.332	0.000	0.001
150.00	0.00	-0.04	0.00	-0.01	0.00	0.01	317.71	158.85	76.59	52.28	29.59	-2.332	0.000	0.000

Final Analysis Summary

Structure: CT04374-S-SBA	Code: EIA/TIA-222-G	4/13/2021
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 + 1.6W 101 mph Wind	11.9	0.00	22.04	0.00	0.00	1070.64
0.9D + 1.6W 101 mph Wind	11.9	0.00	16.53	0.00	0.00	1054.85
1.2D + 1.0Di + 1.0Wi 50 mph Wind	4.6	0.00	35.26	0.00	0.00	455.38
1.2D + 1.0E	0.4	0.00	22.05	0.00	0.00	37.35
0.9D + 1.0E	0.4	0.00	16.54	0.00	0.00	36.78
1.0D + 1.0W 60 mph Wind	2.6	0.00	18.37	0.00	0.00	234.17

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 101 mph Wind	-3.71	-4.78	0.00	-99.46	0.00	-99.46	682.83	341.41	139.27	105.20	112.00	0.951
0.9D + 1.6W 101 mph Wind	-2.69	-4.68	0.00	-97.07	0.00	-97.07	682.83	341.41	139.27	105.20	112.00	0.927
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-8.99	-2.33	0.00	-46.15	0.00	-46.15	682.83	341.41	139.27	105.20	112.00	0.452
1.2D + 1.0E	-4.14	-0.20	0.00	-5.35	0.00	-5.35	682.83	341.41	139.27	105.20	112.00	0.057
0.9D + 1.0E	-3.10	-0.20	0.00	-5.25	0.00	-5.25	682.83	341.41	139.27	105.20	112.00	0.054
1.0D + 1.0W 60 mph Wind	-3.43	-1.04	0.00	-21.79	0.00	-21.79	682.83	341.41	139.27	105.20	112.00	0.212

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	382.2	0.00	25.3	22.7	25.3	1	0	95.9	25.3	4	0	98.19	121.5	121.50	0.808

Base Plate Summary

Structure: CT04374-S-SB	Code: EIA/TIA-222-G	4/13/2021
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: 63



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 + 1.6W)	Clip Length (in): 0.00	Yield (ksi): 105.00
Moment (kip-ft): 1070.64	Effective Len (in): 10.71	Ultimate (ksi): 125.00
Axial (kip): 22.04	Moment (kip-in): 72.48	Arrangement: Radial
Shear (kip): 11.86	Allow Stress (ksi): 48.60	Cluster Dist (in): 0.00
	Applied Stress (ksi): 25.76	Start Angle (deg): 0.00
	Stress Ratio: 0.53	Compression
		Force (kip): 48.32
		Allowable (kip): 60.57
		Ratio: 0.81
		Tension
		Force (kip): 45.80
		Allowable (kip): 60.57
		Ratio: 0.77



Monopole Mat Foundation Design

Date

4/13/2021

Customer Name:	T-Mobile Sprint	EIA/TIA Standard:	EIA-222-G
Site Name:	Central Hebron	Structure Height (Ft.):	150
Site Number:	CT04374-S-SBA	Engineer Name:	S. Hesselbeir
Engr. Number:	104989	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations

Structure Type:

Monopole

Analysis or Design?

Analysis

Base Reactions (Factored):

Axial Load (Kips):	22.0	Shear Force (Kips):	11.9
Uplift Force (Kips):	0.0	Moment (Kips-ft):	1070.6

Allowable overstress %: 5.0%

Foundation Geometries:

		Mods required -Yes/No ?:	Yes
Diameter of Pier (ft.):	4.5	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 Rebar 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):	12.0	
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:

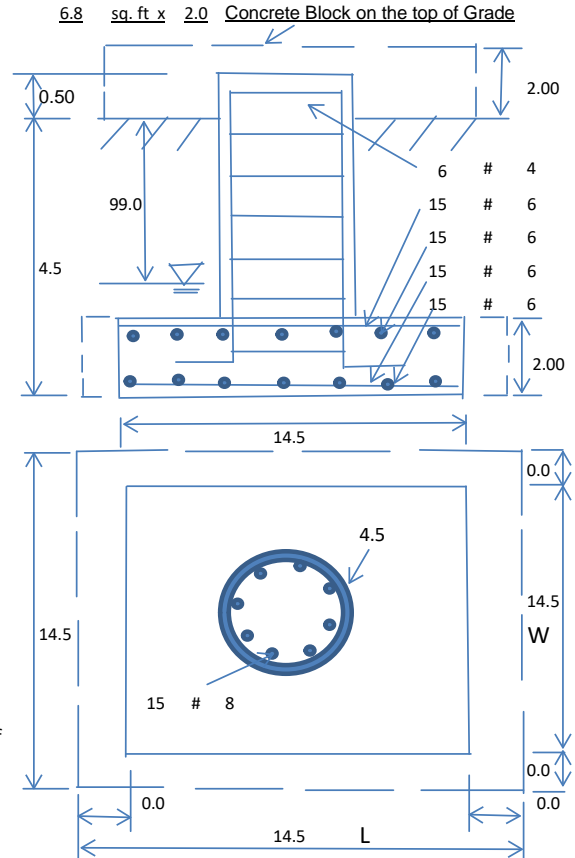
Soil Unit Weight (pcf):	130.0	Soil Buoyant Weight:	50.0	Pcf		
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Top of Pad:	30
Ultimate Bearing Pressure (psf):	30000	Ultimate Skin Friction:	200	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction 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.):	485.86	Total Dry Soil Weight (Kips):	63.16
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	63.16	Weight from the Concrete Block at Top (K):	12.68
Total Dry Concrete Volume (cu. Ft.):	552.74	Total Dry Concrete Weight (Kips):	82.91
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	82.91	Total Vertical Load on Base (Kips):	168.07

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	4962	<	Allowable Factored Soil Bearing (psf):	22500	0.22	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	1112.6	>	Design Factored Momont (kips-ft):	1093	0.98	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.02					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):	1204.2	> Design Factored Moment (Mu, Kips-F	1106.3	0.92	OK!
Calculated Shear Capacity (Kips):	303.7	> Design Factored Shear (Kips):	11.9	0.04	OK!
Calculated Tension Capacity (Tn, Kips):	639.9	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	4028.2	> Design Factored Axial Load (Pu Kips):	22.0	0.01	OK!
Moment & Axial Strength Combination:	0.92	OK! Check Tie Spacing (Design/Required):		1	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):	113.4	0.33	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	340.5	> One-Way Factored Shear (W-D., Kips)	113.4	0.33	OK!
One-Way Design Shear Capacity (Corner-Corner, Kips):	295.1	> One-Way Factored Shear (C-C, Kips):	113.1	0.38	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):	331.2	0.55	OK!
Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):	602.6	> Moment at Bottom (W-Dir. K-Ft):	331.2	0.55	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	848.3	> Moment at Bottom (C-C Dir. K-Ft):	468.4	0.55	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):	133.5	0.22	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	602.6	> Moment at the top (W-Dir K-Ft):	133.5	0.22	OK!
Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):	848.3	> Moment at the top (C-C Dir. K-Ft):	125.8	0.15	OK!

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

Moment transferred by punching shear:	428.2	k-ft.	Max. factored shear stress $v_{u,CD}$:	4.3	Psi
Max. factored shear stress $v_{u,AB}$:	11.4	Psi	Factored shear Strength ϕv_n :	189.7	Psi
Max. factored shear stress v_u :	11.4	Psi	Check Usage of Punching Shear Capacity:	0.06	OK!

EXHIBIT 8

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

T-Mobile Existing Facility

Site ID: CTHA703A

66 Wall Street
Hebron, Connecticut 06248

April 29, 2021

EBI Project Number: 6221002155

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	13.55%

April 29, 2021

T-Mobile

Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CTHA703A

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **66 Wall Street in Hebron, Connecticut** for the purpose of determining whether the emissions from the Proposed T-Mobile 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 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ 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 population 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 population 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 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at 66 Wall Street in Hebron, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.
- 3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 4 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 5) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 6) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

- 7) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antennas used in this modeling are the Rosenberger D2WC-21 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector A, the Rosenberger D2WC-21 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector B, the Rosenberger D2WC-21 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 10) The antenna mounting height centerline of the proposed antennas is 127 feet above ground level (AGL).
- 11) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 12) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	I	Antenna #:	I	Antenna #:	I
Make / Model:	Rosenberger D2WC-2I	Make / Model:	Rosenberger D2WC-2I	Make / Model:	Rosenberger D2WC-2I
Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz / 1900 MHz / 2100 MHz
Gain:	9.98 dBd / 9.98 dBd / 10.88 dBd / 14.69 dBd / 14.69 dBd / 15.35 dBd	Gain:	9.98 dBd / 9.98 dBd / 10.88 dBd / 14.69 dBd / 14.69 dBd / 15.35 dBd	Gain:	9.98 dBd / 9.98 dBd / 10.88 dBd / 14.69 dBd / 14.69 dBd / 15.35 dBd
Height (AGL):	127 feet	Height (AGL):	127 feet	Height (AGL):	127 feet
Channel Count:	13	Channel Count:	13	Channel Count:	13
Total TX Power (W):	560 Watts	Total TX Power (W):	560 Watts	Total TX Power (W):	560 Watts
ERP (W):	13,308.16	ERP (W):	13,308.16	ERP (W):	13,308.16
Antenna A I MPE %:	3.99%	Antenna B I MPE %:	3.99%	Antenna C I MPE %:	3.99%

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	3.99%
Verizon	2.01%
Sprint	3.67%
AT&T	3.88%
Site Total MPE % :	13.55%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	3.99%
T-Mobile Sector B Total:	3.99%
T-Mobile Sector C Total:	3.99%
Site Total MPE % :	13.55%

T-Mobile Maximum MPE Power Values (Sector A)							
T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 600 MHz LTE	2	298.62	127.0	1.47	600 MHz LTE	400	0.37%
T-Mobile 600 MHz NR	1	796.32	127.0	1.96	600 MHz NR	400	0.49%
T-Mobile 700 MHz LTE	2	367.38	127.0	1.80	700 MHz LTE	467	0.39%
T-Mobile 1900 MHz GSM	4	883.33	127.0	8.68	1900 MHz GSM	1000	0.87%
T-Mobile 1900 MHz LTE	2	1766.65	127.0	8.68	1900 MHz LTE	1000	0.87%
T-Mobile 2100 MHz LTE	2	2056.61	127.0	10.10	2100 MHz LTE	1000	1.01%
						Total:	3.99%

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

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

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector A:	3.99%
Sector B:	3.99%
Sector C:	3.99%
T-Mobile Maximum MPE % (Sector A):	3.99%
Site Total:	13.55%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **13.55%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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 well within the allowable 100% threshold standard per the federal government.