

August 4, 2022

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

Regarding: Notice of Exempt Modification – AT&T Site CT5416 / FA# 10070922
Address: 60 Rice Lane, Beacon Falls, CT 06403

Dear Ms. Bachman:

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 160’ Monopole at the above-referenced address, latitude 41.4556919, longitude -73.0397989. Said Monopole is operated by SBA Properties, Inc.

AT&T desires to modify its existing telecommunications facility by adding three (3) antennae, swapping six (6) antennae, adding three (3) remote radio units, and swapping one (1) surge arrestor and accompanying feedlines as more particularly detailed and described on the enclosed Construction Drawings prepared by Hudson Design Group, last revised August 5, 2022. The centerline height of the existing antennas is and will remain at 133 feet. This modification may include B2, B5, B17, B14, B29, B30, B66, & n77 hardware that is 4G(LTE) and/or 5GNR capable through remote software configuration and either or both services may be turned off at various times.

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the following individuals: The Honorable Gerard Smith, First Selectman of the Town of Beacon Falls, as elected official, Michael Mormile, Zoning Enforcement Officer of the Town of Beacon Falls, Keith Rosenfeld, Town Planner of the Town of Beacon Falls, SBA Properties, Inc. as tower operator and property owner.

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

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an 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 modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. *Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.*

5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading. *Please see the structural analysis dated June 8, 2022, and prepared by Tower Engineering Solutions, enclosed herewith.*

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

Sincerely,

Evan Renwick

Evan Renwick
Site Acquisition Specialist
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
erenwick@clinellc.com

Enclosures: Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Original Tower Approval
Exhibit 7 – Notice Delivery Confirmations

cc: The Honorable Gerard Smith, First Selectman of Town of Beacon Falls, as elected official
Michael Mormile, Zoning Enforcement, Town of Beacon Falls
Keith Rosenfeld, Town Planner, Town of Beacon Falls
SBA Towers, INC., as tower operator and property owner

EXHIBIT 1

ISSUED FOR PERMITTING

PROJECT INFORMATION

SCOPE OF WORK: **ITEMS TO BE MOUNTED ON THE EXISTING MONOPOLE:**

- NEW AT&T ANTENNAS: DMP65R-BU6EA-K (TYP. OF 1 PER ALPHA & BETA SECTOR, TOTAL OF 2).
- NEW AT&T ANTENNAS: DMP65R-BU8EA-K (1 PER GAMMA SECTOR, TOTAL OF 1).
- NEW AT&T ANTENNAS: AIR6419 B77G (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: AIR6449 B77D (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS: RRUS 4478 B14 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T SURGE ARRESTOR: DC9-48-60-24-8C-EV (TOTAL OF 1).
- NEW AT&T (6) Y-CABLES
- NEW AT&T (1) 6 AWG DC POWER CABLES & (1) 24 PAIRS OF FIBER RUNS.

ITEMS TO BE MOUNTED IN EQUIPMENT LOCATION:

- INSTALL (1) 6648 + IDLE XCEDE CABLE IN EXISTING PURCELL CABINET. FINAL=1x6601, 1x5216, 1xXMU03, 1x6630 MIXED-MODEL + IDLE, 6648+IDLE XCEDE.
- INSTALL (1) FIBER TRAY IN PURCELL CABINET.
- INSTALL (1) FIBER BOX ON ICE BRIDGE POST.
- INSTALL (1) OUTDOOR DC12-48-60-0-25E
- INSTALL (6) -48v RECTIFIERS FOR A TOTAL OF (10) -48v RECTIFIERS.
- RIP & REPLACE (2) STRINGS OF BATTERIES BELOW POWER PLANT

ITEMS TO BE REMOVED:

- EXISTING AT&T ANTENNA: 800-10121 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNA: TPA-65R-LCUUUU-H8 (1 PER GAMMA SECTOR, TOTAL OF 1).
- EXISTING AT&T ANTENNA: QS66512-2 (TYP. OF 1 PER ALPHA & BETA SECTOR, TOTAL OF 2).
- EXISTING AT&T TMAS: LGP21401 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T DIPLEXERS: 782-10250 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T (6) 1-5/8" COAX CABLES.
- EXISTING UMTS CABINET
- EXISTING AT&T SURGE ARRESTOR: DC6-48-60-0-8C-EV (TOTAL OF 1)

ITEMS TO REMAIN:

- (3) ANTENNAS, (9) RRU'S, (2) SURGE ARRESTOR, (6) DC POWER & (2) FIBER.

SITE ADDRESS: 10 TERESA ROAD
BEACON FALLS, CT 06403

LATITUDE: 41.4556666° N, 41° 27' 20.4" N

LONGITUDE: -73.0398611° W, 73° 2' 23.5" W

TYPE OF SITE: MONOPOLE / OUTDOOR EQUIPMENT

STRUCTURE HEIGHT: 150'-0"±

RAD CENTER: 133'-0"±

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY

DRAWING INDEX

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



SITE NUMBER: CTL05416

SITE NAME: BEACON FALLS NE

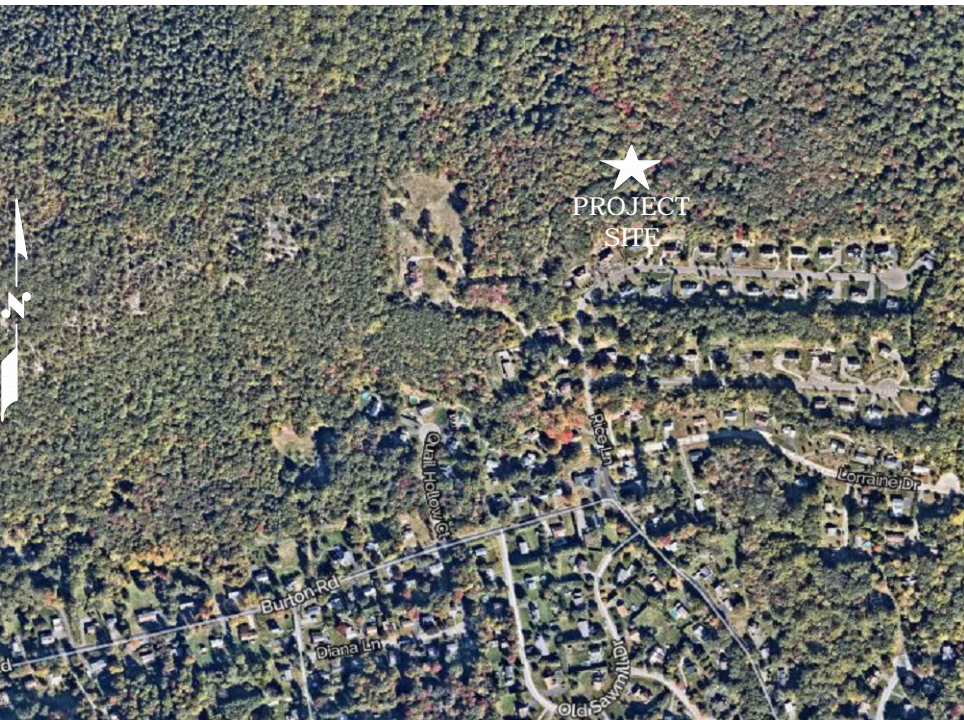
FA CODE: 10070922

PACE ID: MRCTB055319, MRCTB054751, MRCTB054213, MRCTB055137

PROJECT: 5G NR 1SR CBAND. LTE NEXT CARRIER, LTE 6C, BBU RECONFIGURATION WITH NEW IDS, 2022 UPGRADE

VICINITY MAP

DIRECTIONS TO SITE:
HEAD SOUTHEAST TOWARD CAPITAL BLVD, TURN LEFT ONTO CAPITAL BLVD, USE THE LEFT 2 LANES TO TURN LEFT ONTO STATE HWY 411, TURN LEFT TO MERGE WITH I-91 S, MERGE WITH I-91 S, TAKE EXIT 18 FOR I-691 W TOWARD MERIDEN/WATERBURY, CONTINUE ONTO I-691 W, TAKE EXIT 1 ON THE LEFT FOR I-84 W TOWARD WATERBURY/DANBURY, MERGE WITH I-84, USE THE LEFT LANE TO TAKE EXIT 19 TO MERGE WITH CT-8 S TOWARD NAUGATUCK/BRIDGEPORT, TAKE EXIT 24 TOWARD STATE HWY 852, TURN LEFT ONTO STATE HWY 852, STATE HWY 852 TURNS RIGHT AND BECOMES CHURCH ST, CONTINUE ONTO WOLFE AVE, TURN LEFT ONTO BURTON RD, TURN LEFT ONTO RICE LN, TURN LEFT ONTO SPRUCE LN, TURN RIGHT.



GENERAL NOTES

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

72 HOURS

CALL BEFORE YOU DIG

CALL TOLL FREE 1-800-922-4455
OR CALL 811

UNDERGROUND SERVICE ALERT

HGD HUDSON Design Group LLC

45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845

TEL: (978) 557-5553
FAX: (978) 336-5586

CENTERLINE COMMUNICATIONS

750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL05416
SITE NAME: BEACON FALLS NE

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at&t

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

AT&T

TITLE SHEET
5G NR 1SR CBAND. LTE NEXT CARRIER, LTE 6C, BBU RECONFIGURATION WITH NEW IDS, 2022 UPGRADE

SITE NUMBER: CTL05416 DRAWING NUMBER: T-1 REV: C

GROUNDING NOTES

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

GENERAL NOTES

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

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

**BUILDING CODE: IBC 2015 WITH 2018 CT STATE BUILDING CODE AMENDMENTS
 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL 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-H, STRUCTURAL STANDARDS FOR STEEL

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

ABBREVIATIONS

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

45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL05416
SITE NAME: BEACON FALLS NE

10 TERESA ROAD
BEACON FALLS, CT 06403
NEW HAVEN COUNTY

500 ENTERPRISE DRIVE, SUITE 3A
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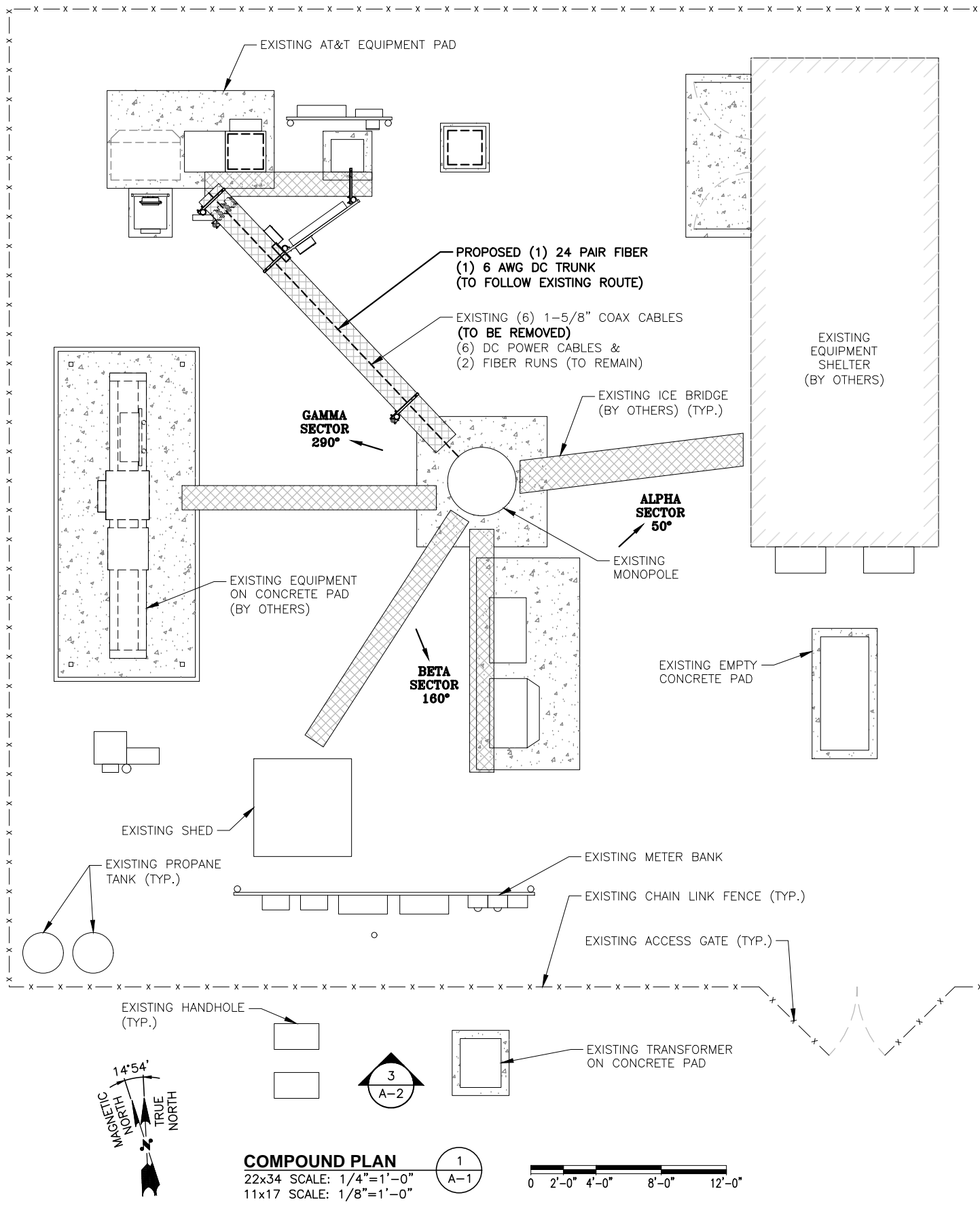
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AT&T

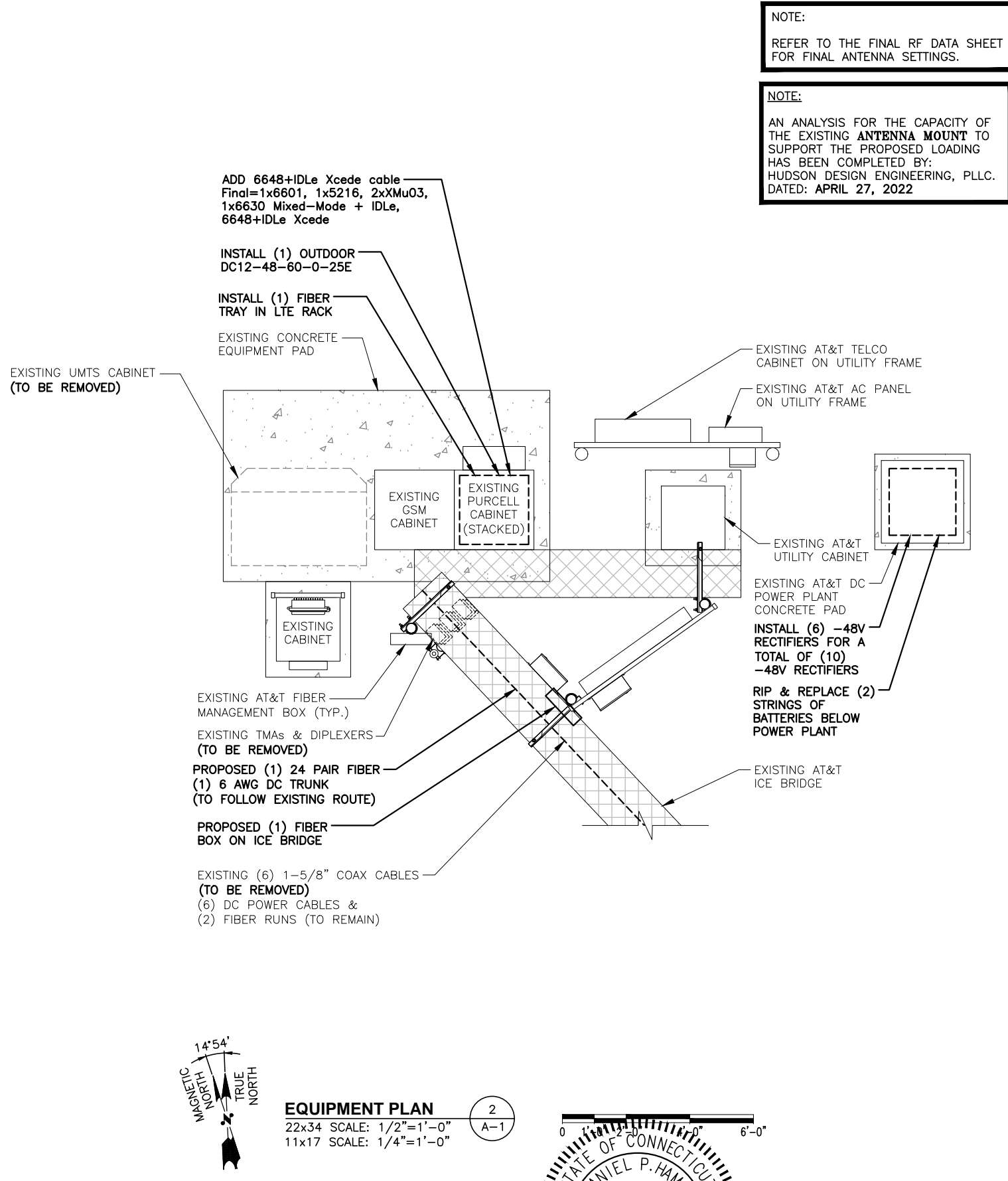
GENERAL NOTES
 NR 1SR CBAND LTE NEXT CARRIER, LTE 6C, BBU RECONFIGURATION WITH NEW IDS, 2022 UPGRADE

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

SITE NUMBER: CTL05416 DRAWING NUMBER: GN-1 REV: C



COMPOUND PLAN
22x34 SCALE: 1/4"=1'-0"
11x17 SCALE: 1/8"=1'-0"



NOTE:
REFER TO THE FINAL RF DATA SHEET
FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF
THE EXISTING ANTENNA MOUNT TO
SUPPORT THE PROPOSED LOADING
HAS BEEN COMPLETED BY:
HUDSON DESIGN ENGINEERING, PLLC.
DATED: APRIL 27, 2022

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

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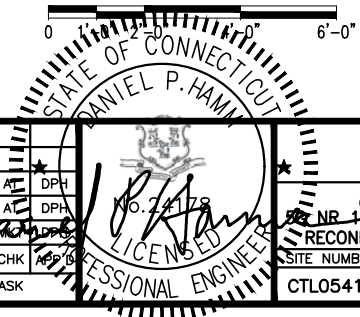
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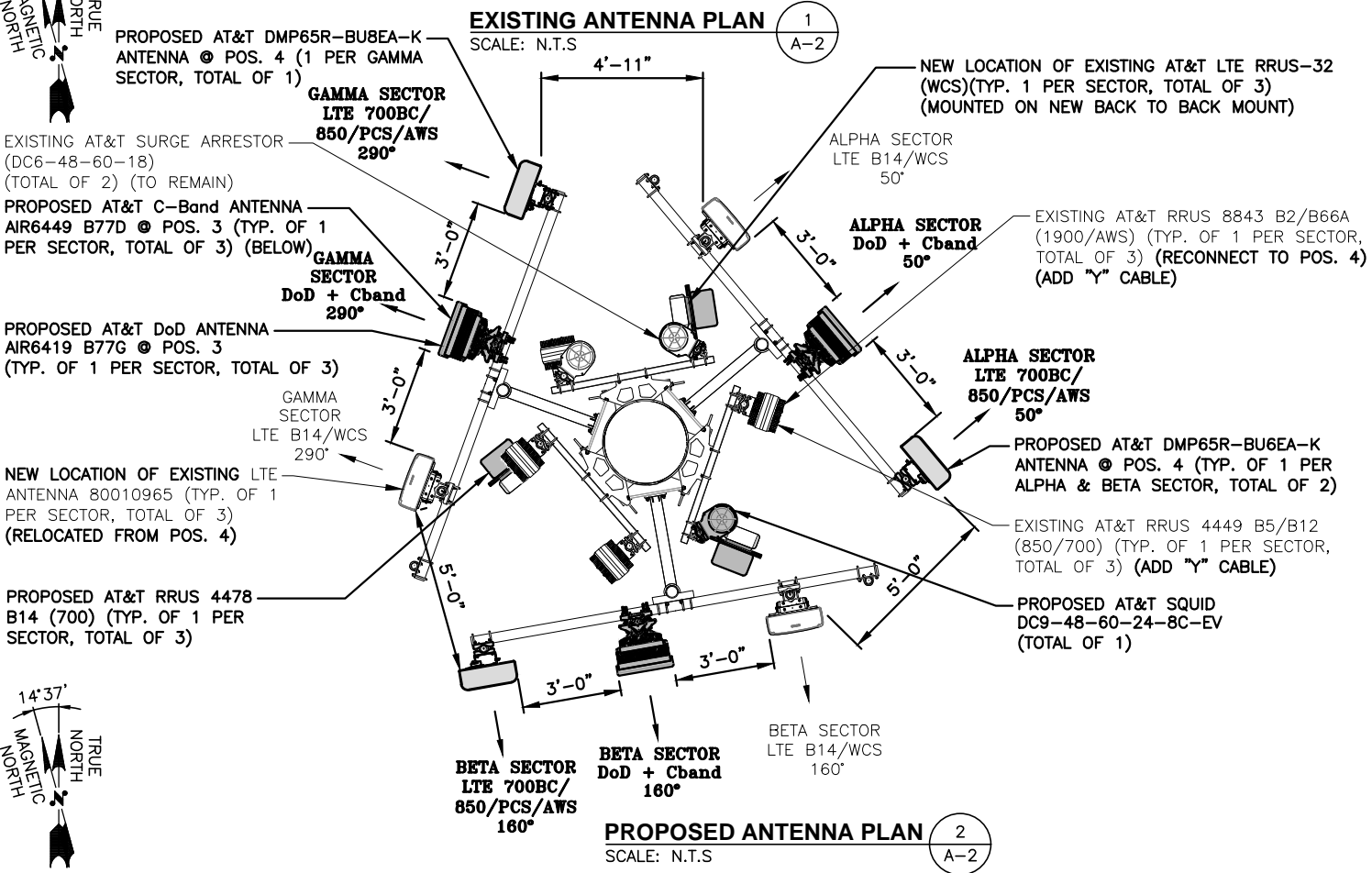
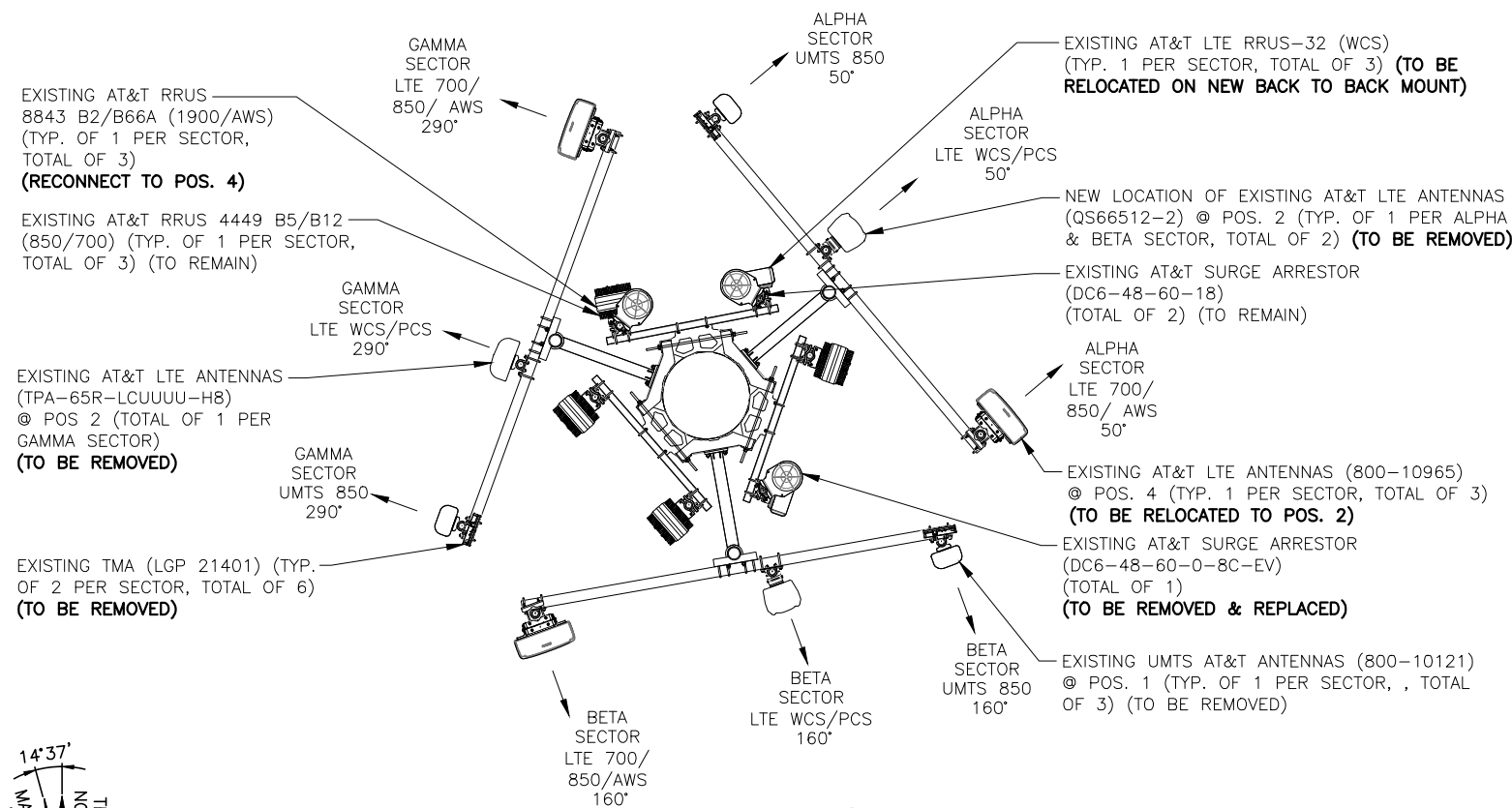
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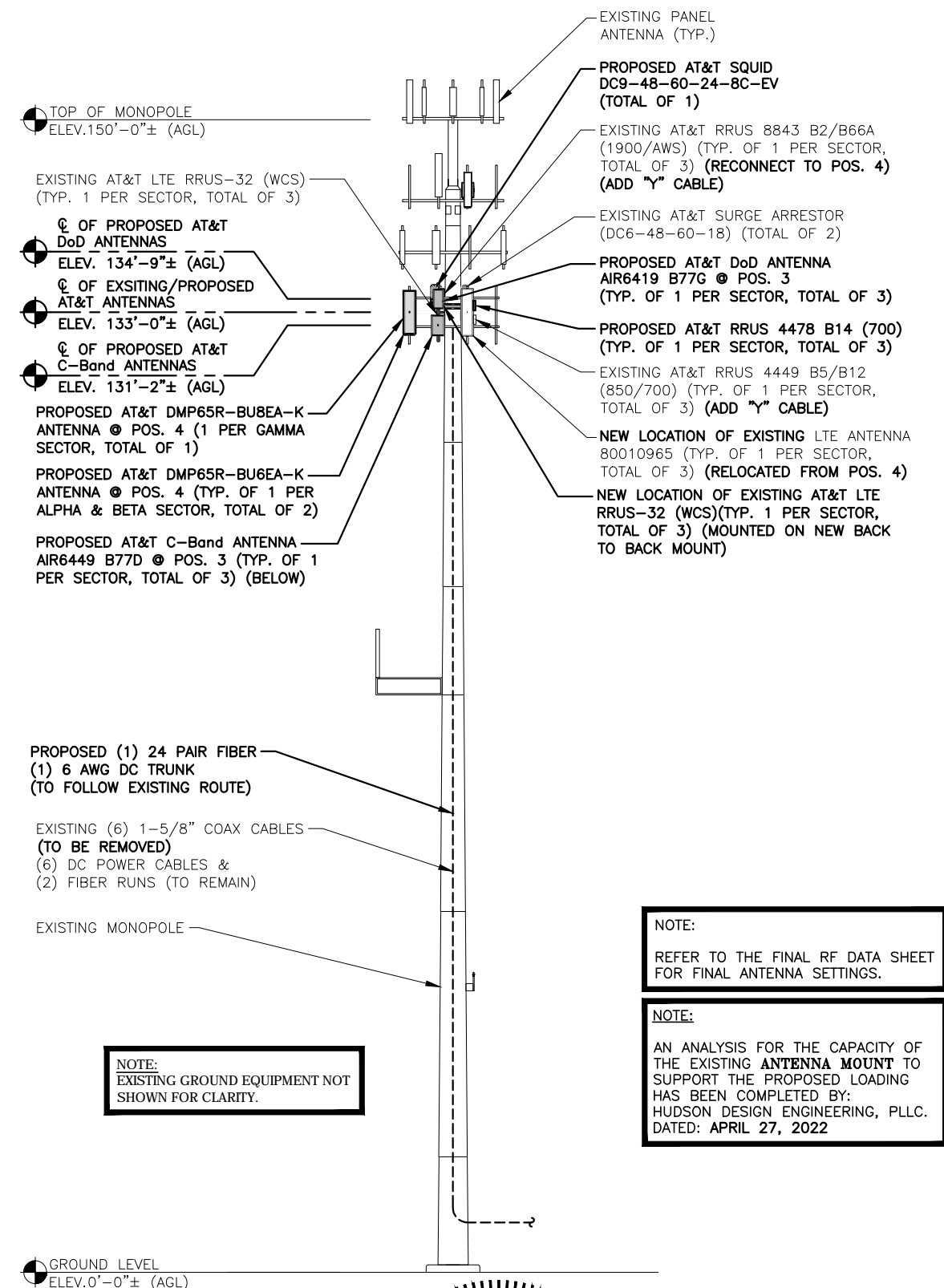
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AT&T
COMPOUND & EQUIPMENT PLANS
NR 15R CBAND, LTE NEXT CARRIER, LTE 6C, BBU
RECONFIGURATION WITH NEW IDS, 2022 UPGRADE
SITE NUMBER: CTL05416 DRAWING NUMBER: A-1 REV: C



NOTE:
ROTATE EXISTING MOUNT TO LTE AZIMUTHS TO GET THEM IN THE SAME PLANE.



NOTE:
EXISTING GROUND EQUIPMENT NOT SHOWN FOR CLARITY.

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN ENGINEERING, PLLC. DATED: APRIL 27, 2022

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AT&T
ANTENNA LAYOUT PLANS & ELEVATION
FOR NR 15R C-BAND, LTE NEXT CARRIER, LTE 6C, BBU
RECONFIGURATION WITH NEW IDS, 2022 UPGRADE
SITE NUMBER: CTL05416 DRAWING NUMBER: A-2 REV: C

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	RAYCAP
A1	EMPTY	-	-	-	-	-	-	-	-	-	-
A2	EXISTING	LTE B14/WCS	80010965	78.7"x20"x6.9"	133'-0"±	50°	-	(P)(1)RRUS-4478 B14 (700) (E)(1)RRUS-32 B30 (WCS)	18.1"x13.4"x8.3"	(E)(2) DC POWER & (1) FIBER	(E) (1) RAYCAP DC6-48-60-18
A3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"x16.1"x7.3" 30.4"x15.9"x8.1"	133'-0"±	50°	-	-	-	-	-
A4	PROPOSED	LTE 700BC/ 850/PCS/AWS	DMP65R-BU6EA-K	71.2"x20.7"x9.7"	133'-0"±	50°	-	(E)(1)RRUS-4449 B5/B12 (700/850) (E)(1)RRUS-8843 B2/B66A (1900/AWS)	-	(P)(2) Y CABLE	-
B1	EMPTY	-	-	-	-	-	-	-	-	-	-
B2	EXISTING	LTE B14/WCS	80010965	78.7"x20"x6.9"	133'-0"±	160°	-	(P)(1)RRUS-4478 B14 (700) (E)(1)RRUS-32 B30 (WCS)	16.5"x13.4"x5.9"	(E)(2) DC POWER & (1) FIBER	(E) (1) RAYCAP DC6-48-60-18
B3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"x16.1"x7.3" 30.4"x15.9"x8.1"	133'-0"±	160°	-	-	-	-	-
B4	PROPOSED	LTE 700BC/ 850/PCS/AWS	DMP65R-BU6EA-K	71.2"x20.7"x9.7"	133'-0"±	160°	-	(E)(1)RRUS-4449 B5/B12 (700/850) (E)(1)RRUS-8843 B2/B66A (1900/AWS)	-	(P)(2) Y CABLE	-
C1	EMPTY	-	-	-	-	-	-	-	-	-	-
C2	EXISTING	LTE B14/WCS	80010965	78.7"x20"x6.9"	133'-0"±	290°	-	(P)(1)RRUS-4478 B14 (700) (E)(1)RRUS-32 B30 (WCS)	16.5"x13.4"x5.9"	(E)(2) DC POWER	(E) (1) RAYCAP DC9-48-60-24-8C-EV
C3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"x16.1"x7.3" 30.4"x15.9"x8.1"	133'-0"±	290°	-	-	-	(P)(1) 6 AWG DC TRUNK (APPROX. LENGTH=200'±)	-
C4	PROPOSED	LTE 700BC/ 850/PCS/AWS	DMP65R-BU8EA-K	96"x20.7"x7.7"	133'-0"±	290°	-	(E)(1)RRUS-4449 B5/B12 (700/850) (E)(1)RRUS-8843 B2/B66A (1900/AWS)	-	(P)(2) Y CABLE (P)(1) 24 PAIR FIBER	-

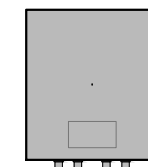
RRU CHART

QUANTITY	MODEL	SIZE (L x W x D)
P(3)	4478 B14 (700)	18.1"x13.4"x8.3"
E(3)	RRUS-32 B30 (WCS)	27.2"x12.1"x7.0"
E(3)	4449 B5/B12 (700/850)	17.9"x13.2"x10.4"
E(3)	8843 B2/B66A (1900/AWS)	14.9"x13.2"x10.9"

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY:
HUDSON DESIGN ENGINEERING, PLLC.
DATED: APRIL 27, 2022

NOTE:
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER

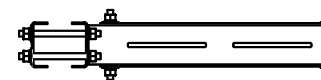
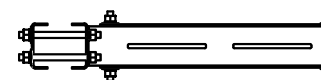
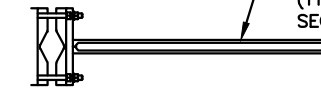


PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

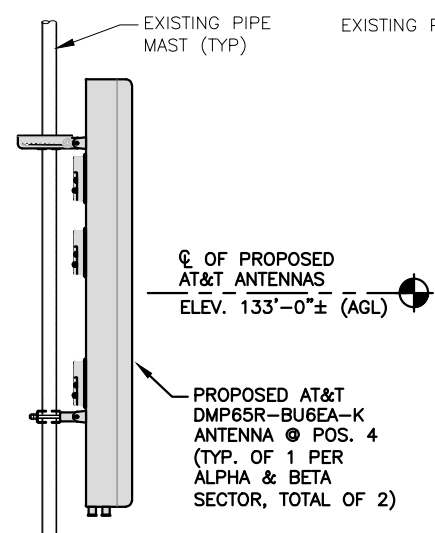
PROPOSED RRUS DETAIL 2
SCALE: N.T.S.

PROPOSED DUAL RRU MOUNT, ROSENBERGER PART #D22ORRUSM (TYP. OF 1 PER SECTOR, TOTAL OF 3)



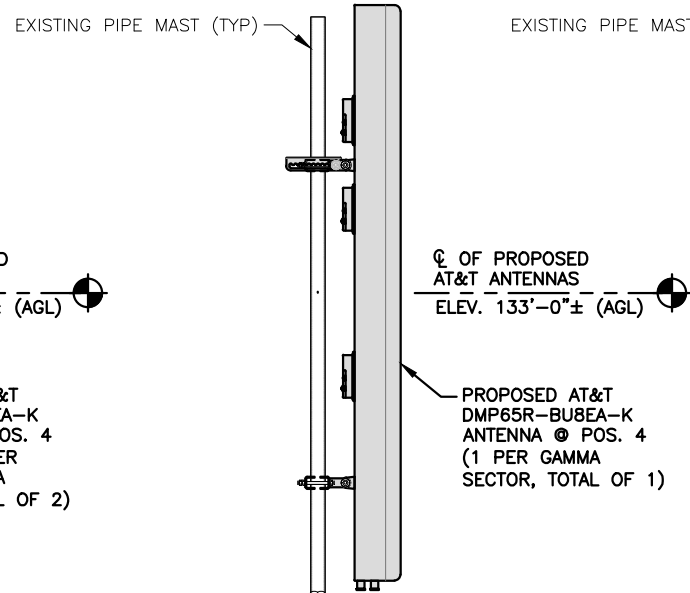
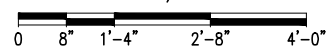
BACK TO BACK RRU MOUNT DETAIL 3
SCALE: N.T.S.

FINAL ANTENNA SCHEDULE 1
SCALE: N.T.S.



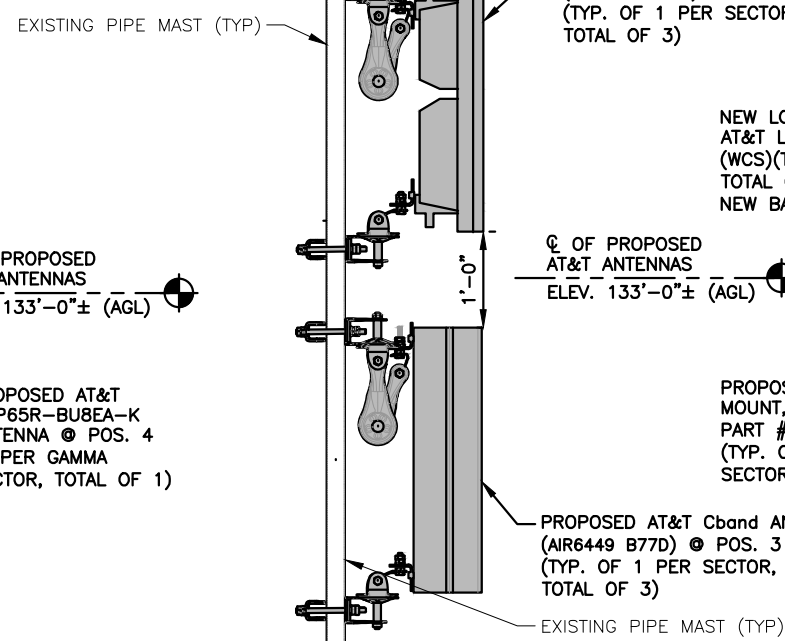
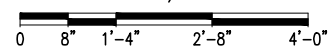
PROPOSED ANTENNA @ POS. 4 (ALPHA & BETA SECTOR) 4
SCALE: 3/4"=1'-0"

22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"



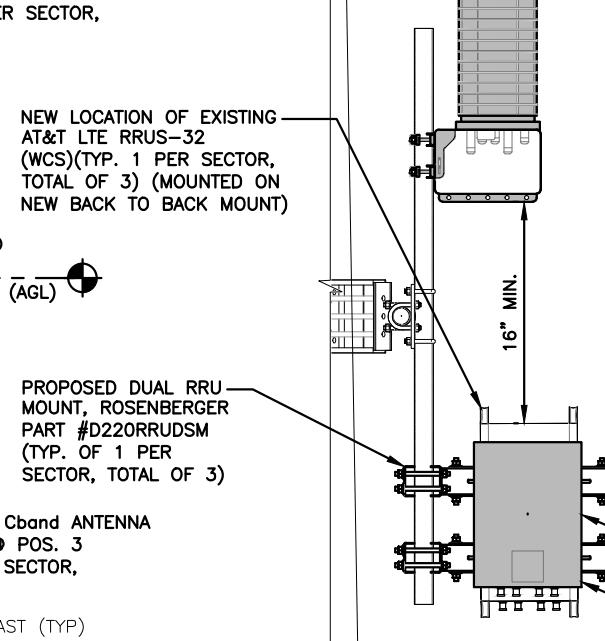
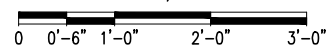
PROPOSED ANTENNA @ POS. 4 (GAMMA SECTOR) 5
SCALE: 3/4"=1'-0"

22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"



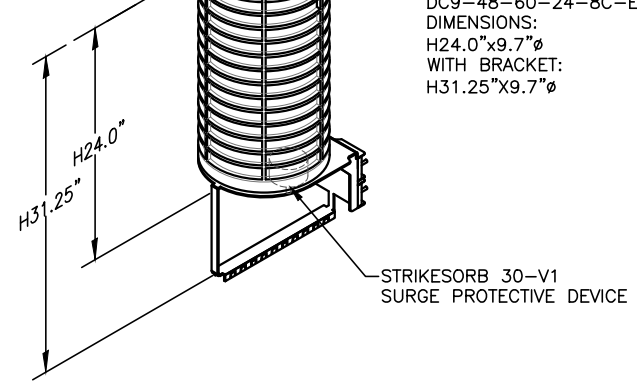
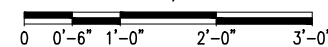
PROPOSED ANTENNA @ POS. 3 6
SCALE: 1"=1'-0"

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



PROPOSED RRH MOUNTING DETAIL 7
SCALE: 1"=1'-0"

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



DC SURGE SUPPRESSOR DETAIL 8
SCALE: N.T.S.

PROPOSED AT&T RRUS 4478 B14 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T SQUID DC9-48-60-24-8C-EV (TOTAL OF 1)

HG HUDSON Design Group LLC
45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845
TEL: (978) 557-5553 FAX: (978) 336-5586

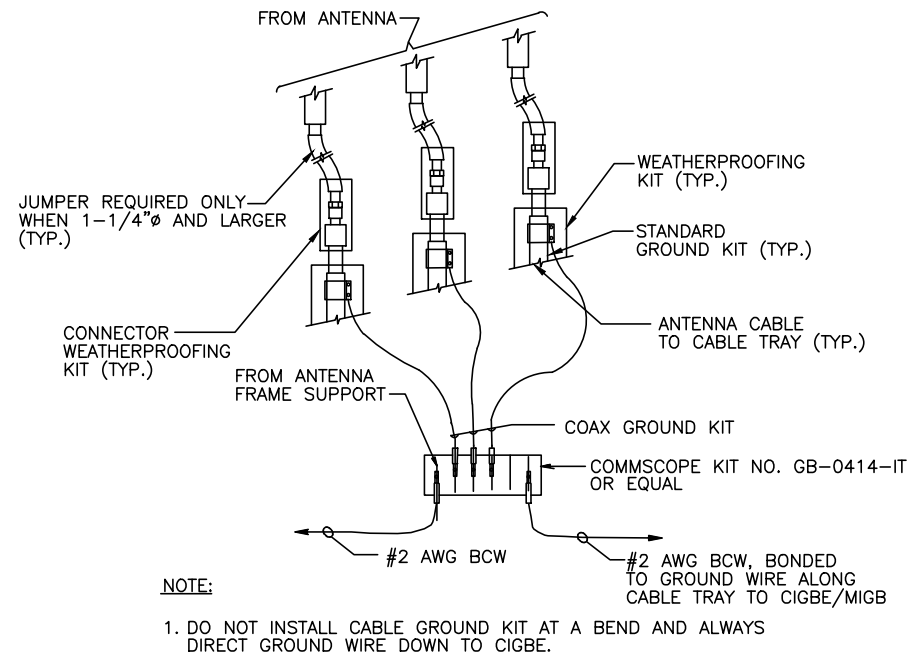
CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET, SUITE #301 WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL05416
SITE NAME: BEACON FALLS NE
10 TERESA ROAD BEACON FALLS, CT 06403 NEW HAVEN COUNTY

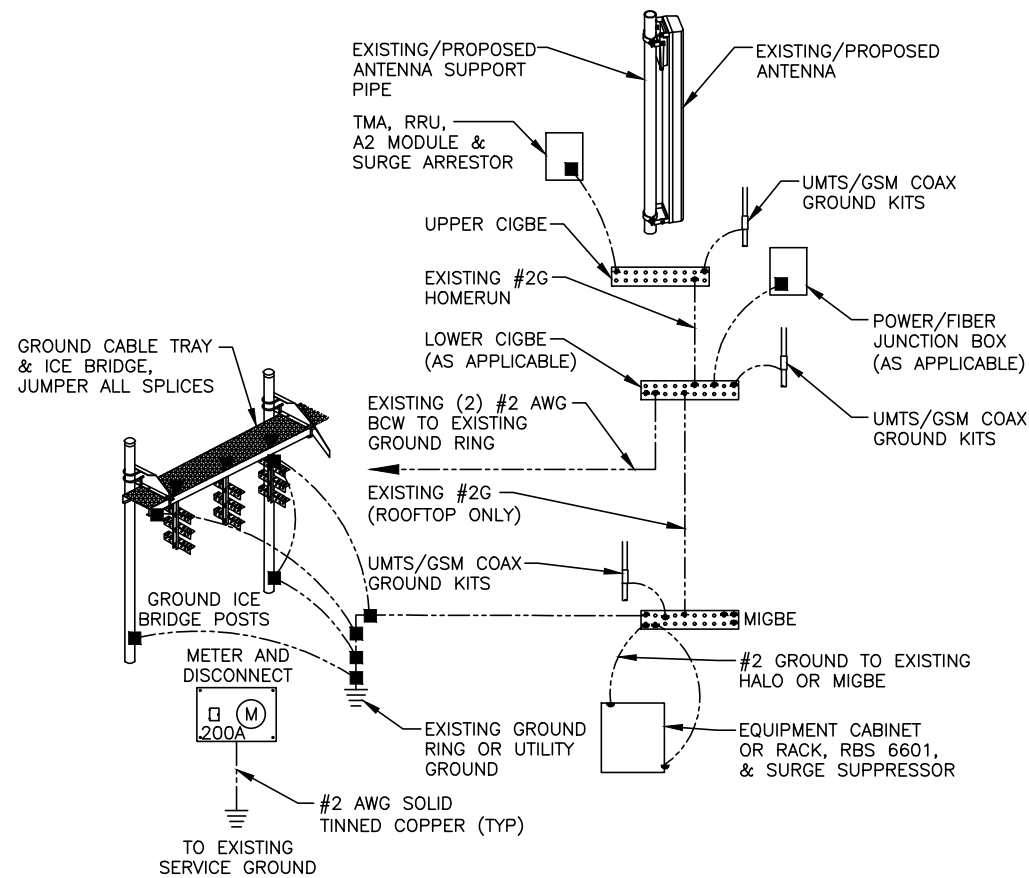
at&t
500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067

C	08/05/22	ISSUED FOR PERMITTING	AG	AT	DPH
B	07/28/22	ISSUED FOR PERMITTING	AW	AT	DPH
A	06/21/22	ISSUED FOR REVIEW	AS	AT	DPH
NO.	DATE	REVISIONS	BY	CHK	APP
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: ASK		

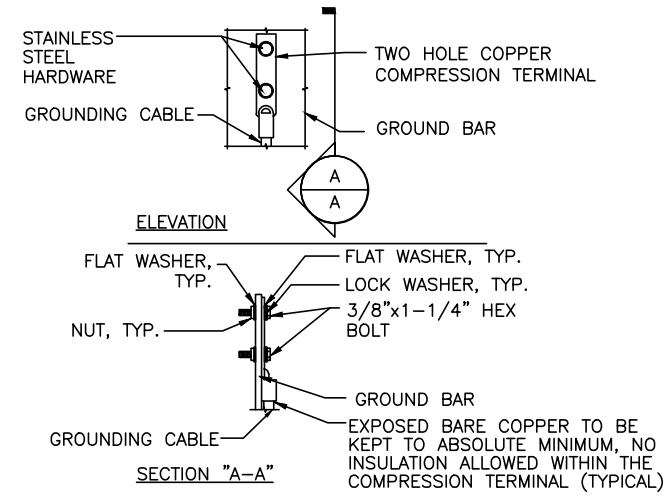
AT&T
DETAILS
NR 1SR C-BAND, LTE NEXT CARRIER, LTE 6C, BBU RECONFIGURATION WITH NEW IDS, 2022 UPGRADE
SITE NUMBER: CTL05416
DRAWING NUMBER: A-3
REV: C



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



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



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

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

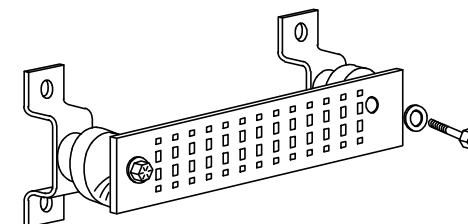
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

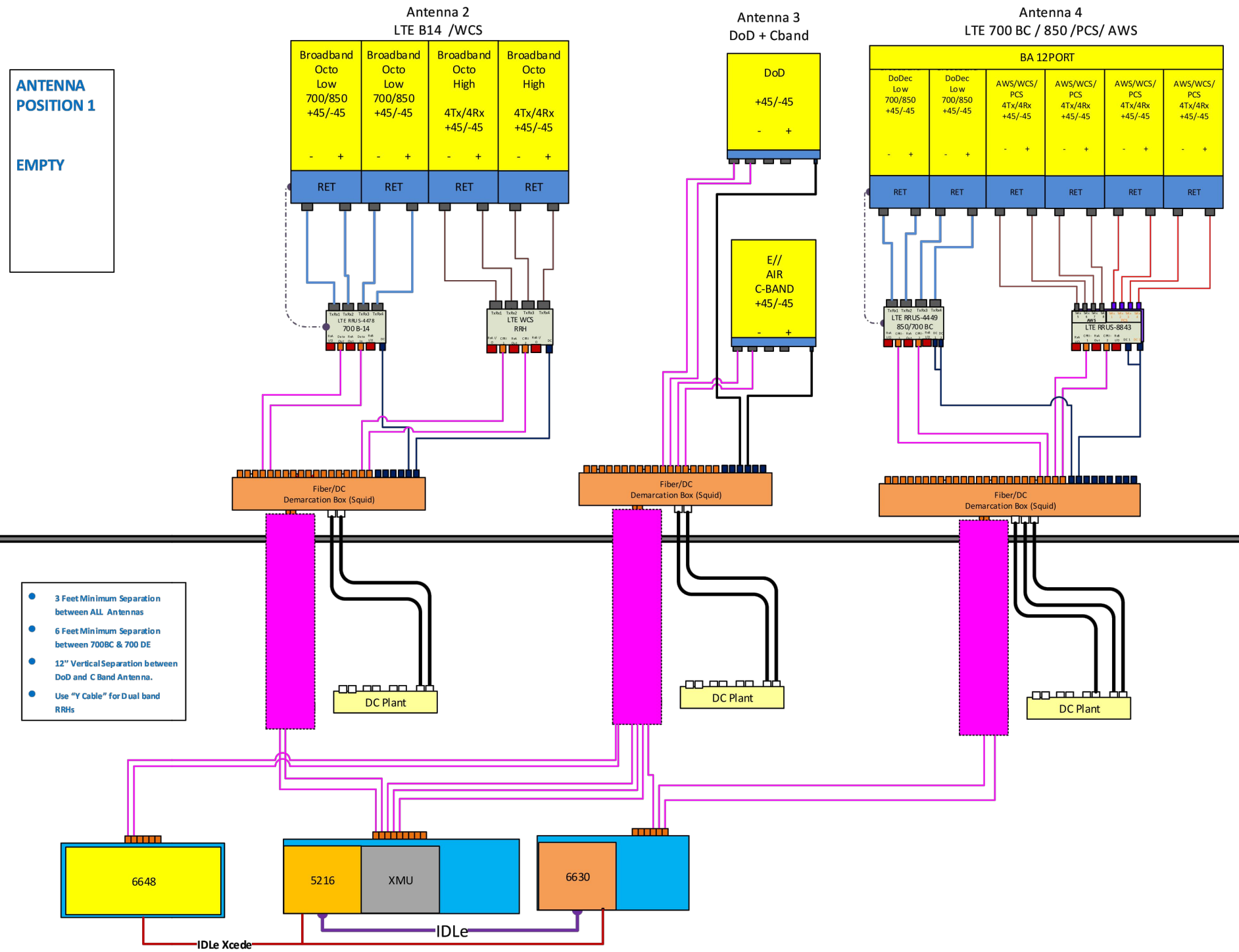
- CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
- +24V POWER SUPPLY RETURN BAR (#2 AWG)
- 48V POWER SUPPLY RETURN BAR (#2 AWG)
- RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS

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



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



ANTENNA POSITION 1
EMPTY

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

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

NOTE:
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

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

C	08/05/22	ISSUED FOR PERMITTING	SG	AT	DPH
B	07/28/22	ISSUED FOR PERMITTING	KW	AT	DPH
A	06/21/22	ISSUED FOR REVIEW	ASK	MKT	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: AT	DRAWN BY: ASK		

EXHIBIT 2

SBA PROPERTIES INC
 TAX DEPARTMENT
 8051 CONGRESS AVE
 BOCA RATON, FL 33487
 Census: 3411

Neighborhood Number
 5

Neighborhood Name
 East Side

TAXING DISTRICT INFORMATION

Jurisdiction Name BEACON FALLS
 Area 006
 Routing Number 017-002-0002

Transfer of Ownership

Valuation Record

Assessment Year	2011	2016							
Reason for Change	2011 Reval	2016 Reval							
2016 Market	L	0	0						
	I	250000	275000						
	T	250000	275000						
70% Assessed	L	0	0						
	I	175000	192500						
	T	175000	192500						

Site Description

Topography
 High

Public Utilities
 Sewer

Street or Road
 Unpaved

Neighborhood
 Static

Zoning:
 R-1

Legal Acres:
 0.0000

Land Size

Land Type	Rating, Soil ID - or - Actual Frontage	Acreage - or - Effective Frontage	Square Feet - or - Effective Depth	Influence Factor

Tax ID 017-002-0002

Printed 09/17/2021

Physical Characteristics

01

Special Features	
Description	

Summary of Improvements								
ID	USE	Story Height	Const Type	Grade	Year Cons	Eff Year	Cond	Size or Area
01	TOWERMON	0.00		AVG	2000	2000	AV	0

Town of Beacon Falls

Geographic Information System (GIS)



Date Printed: 1/6/2022



MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Beacon Falls and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 400 feet

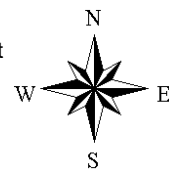


EXHIBIT 3



Tower Engineering Solutions

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

Structural Analysis Report

Existing 160 ft Nudd Corporation Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT02049-S

Customer Site Name: Beacon Falls

Carrier Name: AT&T (App#: 200358, V1)

Carrier Site ID / Name: CT5416 / Beacon Falls

NE Site Location: 60 Rice Lane

Beacon Falls, Connecticut

New Haven County

Latitude: 41.455689

Longitude: -73.039866

Analysis Result:

Max Structural Usage: 95.5% [Pass]

Max Foundation Usage: 71% [Pass]

Additional Usage Caused by New Mount: N/A

Report Prepared By: Praveen Shrestha





Tower Engineering Solutions

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

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Max Structural Usage: 95.5% [Pass]

Max Foundation Usage: 71% [Pass]

Additional Usage Caused by New Mount: N/A

Report Prepared By: Praveen Shrestha

Introduction

The purpose of this report is to summarize the analysis results on the 160 ft Nudd Corporation 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	Nudd Project # 7342, dated 01/14/2000
Foundation Drawing	Nudd Project # 7342, dated 01/14/2000
Geotechnical Report	SEA Consultants Ref # 99339.02-A, dated 08/02/1999
Modification Drawings	O2 Wireless Solutions Job # 2230-022, dated 05/23/2002; FDH Project # 09-04232E S2, dated 01/03/2009; FDH Project # 12-04772E S3, dated 10/15/2013; TES Job # 20939 rev.3, dated 09/28/2016; TES Job# 80199, dated 04/30/2020
Mount Analysis	HUDSON Design Group LLC, CT5416, dated 04/27/22

Analysis Criteria

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

Wind Speed Used in the Analysis:	125.0 mph (3-Sec. Gust) (Ultimate wind speed)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Service Load Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_S = 0.198$, $S_1 = 0.054$

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

Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	165.0	1	Andrew - DB222 - Whip	Low Profile Platform	(1) 7/8"	BFFD
2	162.0	6	Andrew DB846F65ZAXY - Panel		(2) 1 5/8" Hybrid (17) 1 5/8"	Verizon
3		6	Andrew JAHH-65B-R3B - Panel			
4		3	Samsung VZS01 - Panel			
5		1	Commscope CBC78T-DS-43-2X - Diplexer			
6		3	Samsung B2/B66A RRH-BR049 - RRU			
7		3	Samsung Telecommunications B5/B13 RRH-BR04C - RRU			
8		1	Commscope FE-16148-OVP-B12 - OVP			
9	152.0	3	JMA Wireless - MX08FRO665-21 - Panel	Platform w/ Handrail (Commscope MC-PK8-DSH)	(1) 1.75" Hybrid	Dish Wireless
10		3	Fujitsu - TA08025-B605 - RRU			
11		3	Fujitsu - TA08025-B604 - RRU			
12		1	Raycap - RDIDC-9181-PF-48 - OVP			
13	142.0	3	Ericsson KRY 112 144/1 TMA	Platform w/ HR & Bracing	(10) 1 5/8" (2) 1 5/8" Fiber (2) 1-1/4" Fiber	T-Mobile
14		3	Ericsson AIR 21 B2A/B4P - Panel			
15		4	Ericsson Air 32 KRD901146-1 B66A B2A - Panel			
16		3	RFS APXVAARR24_43-U-NA20 - Panel			
17		1	RFS APXVAARR18_43-U-NA20 - Panel			
18		4	Ericsson Radio 4449 B71+B12 RRUs			
19		1	Ericsson Radio 4415 B66A RRUs			
-	133.0	3	Raycap DC6-48-60-18-8F Junction Box	T-Frames (3) SitePro 1 P/N RMV12-NP W/ (3) 2-1/2" (2.88" O.D.) Pipe Masts	(6) 1 1/4" (6) 1 5/8" (6) 3/4" DC Power** (2) 3/8" Fiber	AT&T
-		3	Kathrein 800 10121 - Panel			
-		3	Kathrein 800-10965 - Panel			
-		1	Cci TPA-65R-LCUUUU-H8 - Panel			
-		2	Quintel QS66512-2 - Panel			
-		6	Powerwave LGP21401 TMA			
-		3	Ericsson RRUS-32 RRU			
-		3	Ericsson B2/B66A 8843 RRU			
-		3	Ericsson B5/B12 4449 RRU			
32	115.0	1	DB222 - Whip	(1) 3 ft. Standoff	(1) 7/8"	BFFD
33	40.0	1	GPS	Standoff	(1) 1/2"	Sprint

** (4) 3/4" DC inside 3" Conduit.

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
20	134.75	3	Ericsson AIR6419 B77G Panel	T-Frames (3) SitePro 1 P/N RMV12-NP W/ (3) 2-1/2" (2.88" O.D.) Pipe Masts	(6) 1 5/8" Coax (6) 1 1/4" coax (7) 0.92" DC Power (2) 3/8" Fiber (1) 1/2" Fiber	AT&T
21	133.0	3	Kathrein 800-10965 Panel			
22		2	Cci DMP65R-BU6EA-K Panel			
23		1	Cci DMP65R-BU8EA-K Panel			
24		6	Powerwave LGP21401 TMA			
25		3	Ericsson RRUS-32 RRU			
26		3	Ericsson B2/B66A 8843 RRU			
27		3	Ericsson B5/B12 4449 RRU			
28		3	Ericsson RRUS 4478 B14 RRU			
29		2	Raycap DC6-48-60-18-8F OVP			
30		1	Raycap DC9-48-60-24-8C-EV OVP			
31	131.75	3	Ericsson AIR6449 B77D Panel			

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate	Flange Plates
Max. Usage:	95.5%	67.9%	71.5%	88.0%
Pass/Fail	Pass	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	4311.9	36.2	78.2

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

Service Load Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.3277 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 82.56% at 96.0ft

Structure: CT02049-S-SBA
Site Name: Beacon Falls
Height: 160.00 (ft)
Base Elev: 0.000 (ft)

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

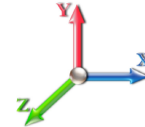
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Page: 1

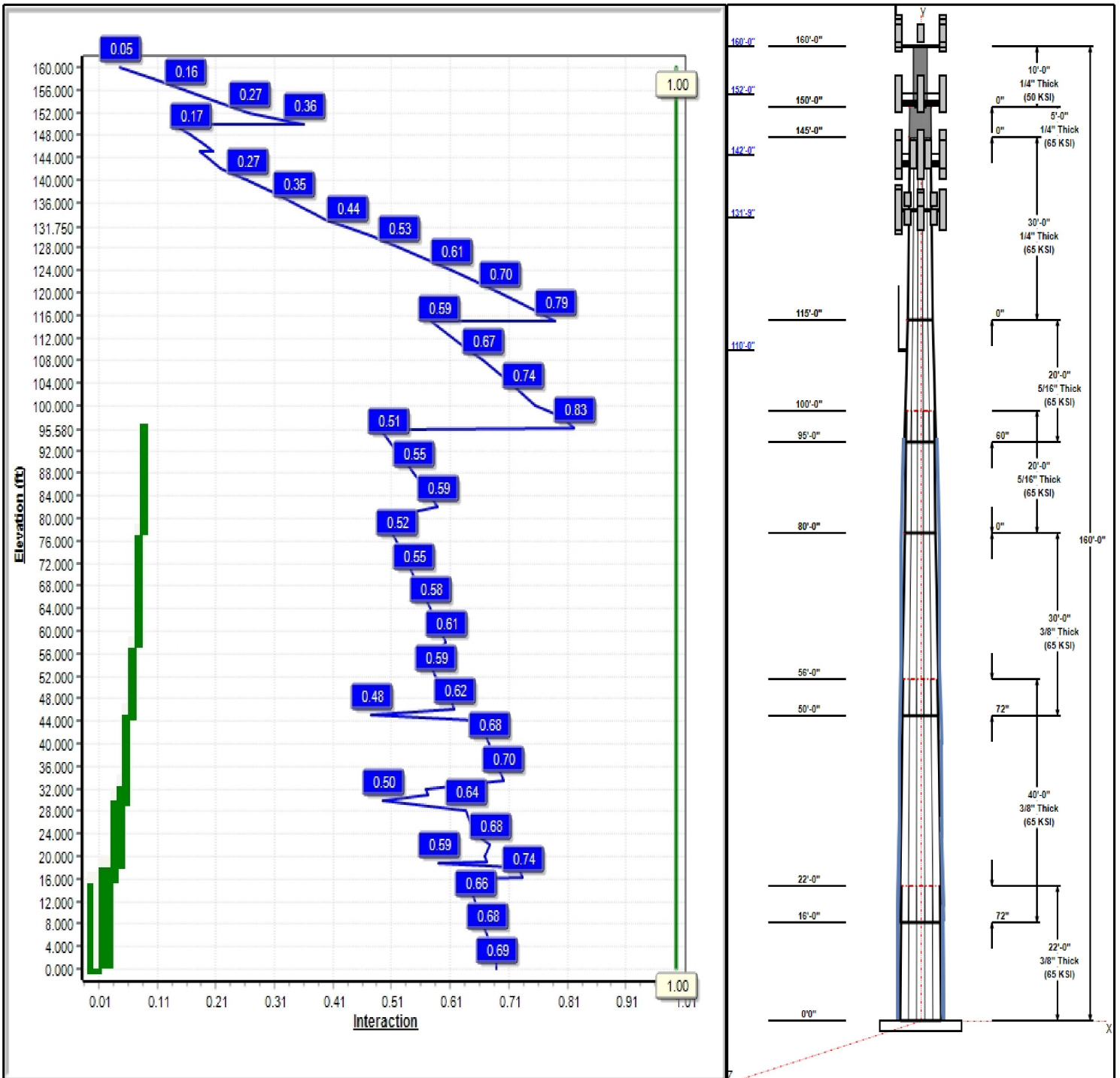
Dead Load Factor: 1.20
Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 125 mph Wind



Iterations: 28

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Structure: CT02049-S-SBA

Type: Custom
Site Name: Beacon Falls
Height: 160.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 12 Sided
Taper: 0.19400

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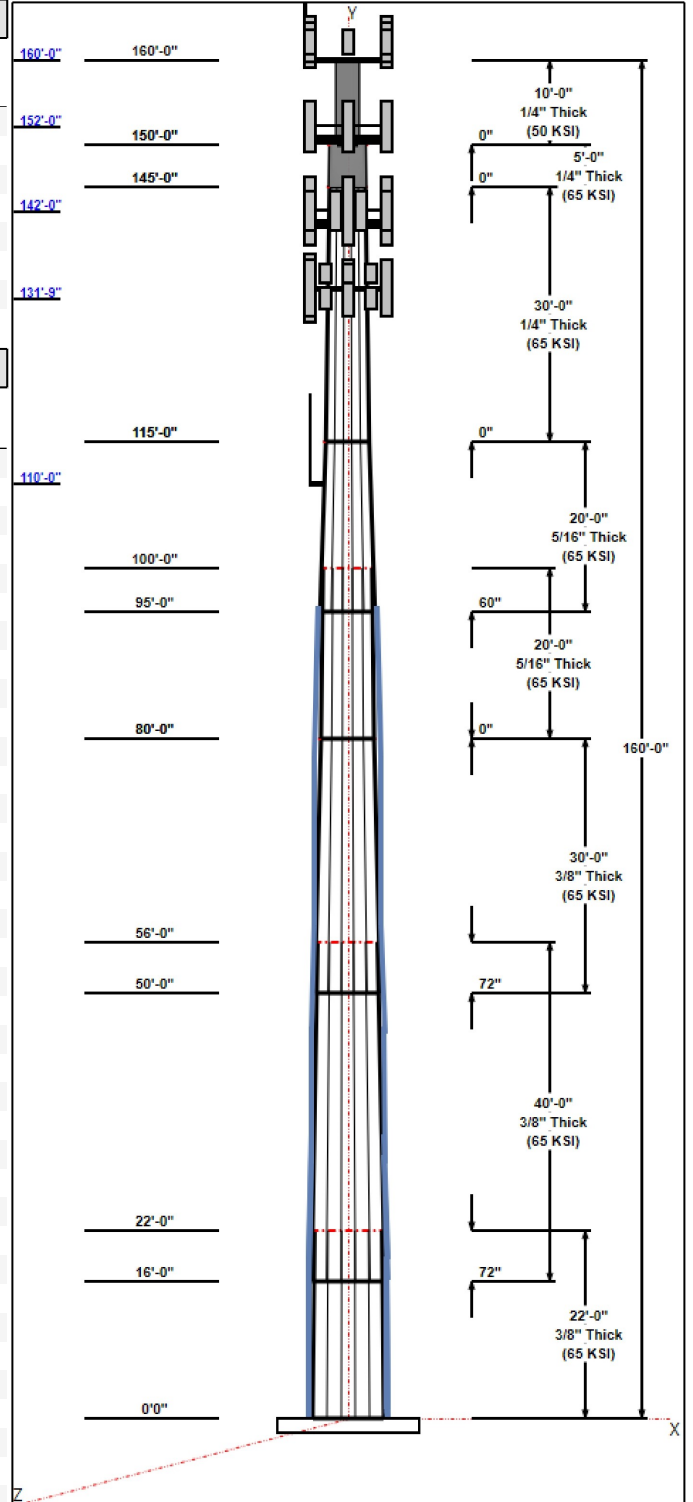


Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	22.00	46.11	50.38	0.375		0.19400	65
2	40.00	40.26	48.02	0.375	Slip	0.19400	65
3	30.00	36.35	42.17	0.375	Slip	0.19400	65
4	20.00	32.48	36.35	0.313	Butt	0.19400	65
5	20.00	30.19	34.07	0.313	Slip	0.19400	65
6	30.00	24.38	30.19	0.250	Butt	0.19400	65
7	5.00	24.38	24.38	0.250	Butt	0.19400	65
8	10.00	16.00	16.00	0.250	Butt	0.00000	50

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
160.00	165.00	1	DB222	BFFD
160.00	162.00	6	DB846F65ZAXY	Verizon
160.00	162.00	1	Low Profile Platform	Verizon
160.00	162.00	6	JAHH-65B-R3B	Verizon
160.00	162.00	3	VZS01	Verizon
160.00	162.00	1	CBC78T-DS-43	Verizon
160.00	162.00	3	B2/B66A RRH-BR049	Verizon
160.00	162.00	3	B5/B13 RRH-BR04C	Verizon
160.00	162.00	1	Commscope	Verizon
160.00	163.00	1	6' Lightning rod	--
152.00	152.00	1	MC-PK8-DSH	Dish Wireless
152.00	152.00	3	MX08FRO665-21	Dish Wireless
152.00	152.00	3	TA08025-B605	Dish Wireless
152.00	152.00	3	TA08025-B604	Dish Wireless
152.00	152.00	1	RDIDC-9181-OF-48	Dish Wireless
142.00	142.00	1	Mod	T-Mobile
142.00	142.00	3	AIR 21, 1.3M, B2A B4P	T-Mobile
142.00	142.00	4	KRD 9011461-B66A-B2A	T-Mobile
142.00	142.00	3	APXVAARR24_43-U-NA20	T-Mobile
142.00	142.00	1	APXVA18-43-C-A20	T-Mobile
142.00	142.00	3	KRY 112 144/1	T-Mobile
142.00	142.00	4	4449 B71 + B85	T-Mobile
142.00	142.00	1	4415	T-Mobile
142.00	142.00	1	Platform w/ HR & Bracing	T-Mobile
134.75	134.75	3	AIR 6419 B77G	AT&T
133.00	133.00	2	DMP65R-BU6EA-K	AT&T
133.00	133.00	1	DMP65R-BU8EA-K	AT&T
133.00	133.00	3	4478 B14	AT&T
133.00	133.00	1	DC9-48-60-24-8C-EV	AT&T
133.00	133.00	3	Kathrein 800-10965	AT&T
133.00	133.00	2	(3) SitePro 1 P/N	AT&T
133.00	133.00	6	Powerwave LGP21401	AT&T
133.00	133.00	3	Ericsson RRUS-32 RRU	AT&T
133.00	133.00	3	Ericsson B2/B66A 8843	AT&T
133.00	133.00	3	Ericsson B5/B12 4449	AT&T
133.00	133.00	2	Raycap DC6-48-60-18-8F	AT&T
131.75	131.75	3	AIR 6449 B77D	AT&T
110.00	115.29	1	DB222	BFFD
110.00	110.00	1	3 ft Standoff	BFFD
40.00	40.00	1	GPS	Sprint



Linear Appurtenances

Structure: CT02049-S-SBA

Type: Custom
Site Name: Beacon Falls
Height: 160.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 12 Sided
Taper: 0.00000

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Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	160.00	Inside	1 5/8" Coax	Verizon
0.00	160.00	Outside	1 5/8" Hybrid	Verizon
0.00	160.00	Outside	7/8" Coax	BFFD
0.00	152.00	Outside	1.75" Hybrid	Dish Wireless
0.00	142.00	Inside	1 5/8" Coax	T-Mobile
0.00	142.00	Outside	1 5/8" Fiber	T-Mobile
0.00	142.00	Outside	1-1/4" Fiber	T-Mobile
0.00	133.00	Inside	0.92" DC Power	AT&T
0.00	133.00	Inside	1 1/4" Coax	AT&T
0.00	133.00	Inside	1 5/8" Coax	AT&T
0.00	133.00	Inside	1/2" Fiber	AT&T
0.00	133.00	Inside	3/8" Fiber	AT&T
0.00	110.00	Outside	7/8" Coax	BFFD
28.00	98.00	Outside	1.25" Reinforcing plate	
0.00	40.00	Inside	1/2" Coax	Sprint
0.00	32.00	Outside	1" Reinforcing plate	
0.00	32.00	Outside	C10x15.3	

Anchor Bolts

Qty	Specifications	Grade (ksi)	Arrangement
18	2.00" F1554 105	105.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.5000	63.0	50.0	Round

Reactions

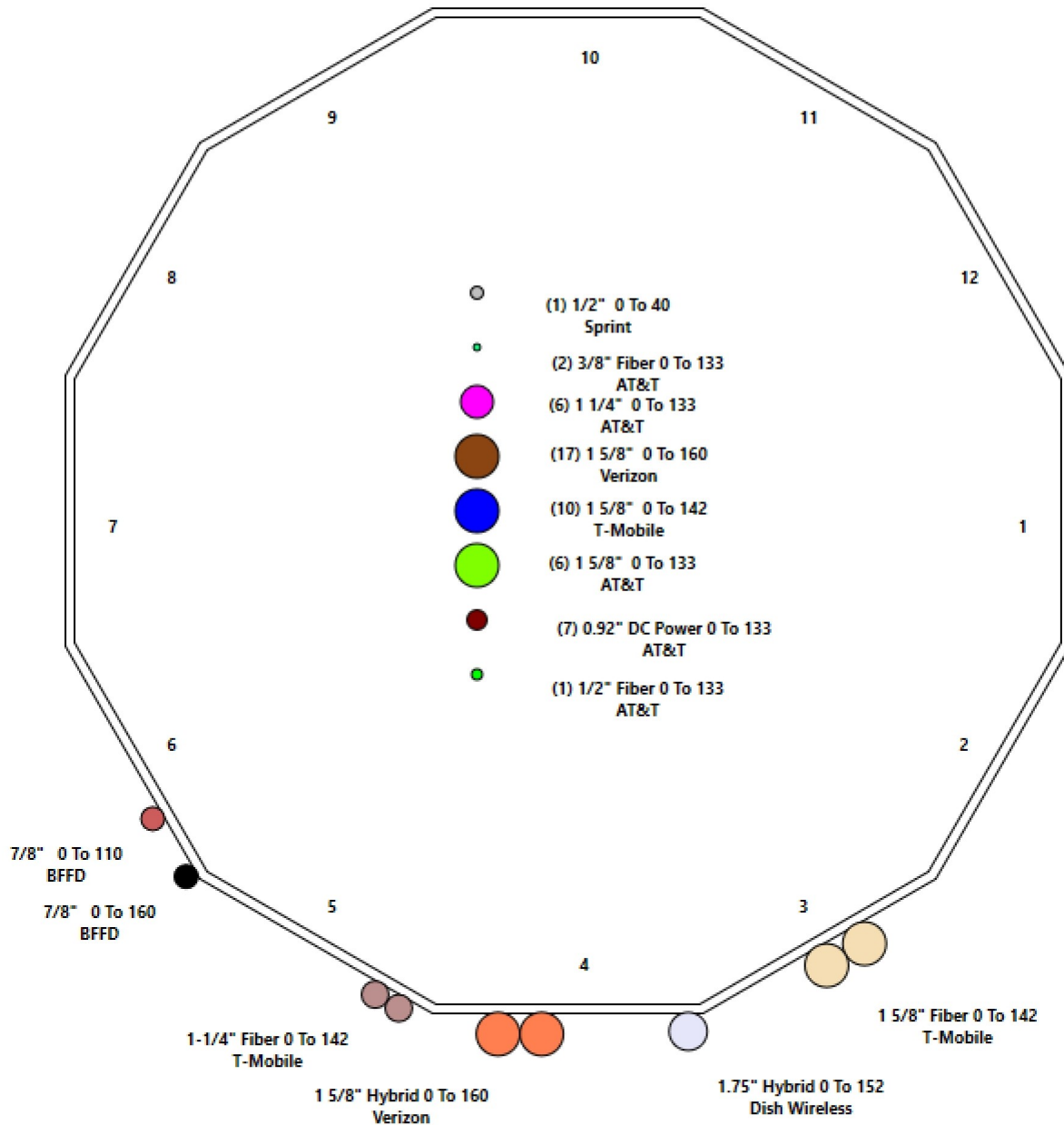
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 125 mph Wind	4311.9	36.2	78.2
0.9D + 1.0W 125 mph Wind	4249.5	36.1	58.6
1.2D + 1.0Di + 1.0Wi 50 mph Wind	962.6	7.8	100.6
1.2D + 1.0Ev + 1.0Eh	77.0	0.5	81.2
0.9D + 1.0Ev + 1.0Eh	76.8	0.5	61.3
1.0D + 1.0W 60 mph Wind	881.7	7.5	65.2

Structure: CT02049-S-SBA - Coax Line Placement

Type: Monopole
Site Name: Beacon Falls
Height: 160.00 (ft)

6/8/2022

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Shaft Properties

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 5



Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	12	22.000	0.3750	65		0.00	4,327
2	12	40.000	0.3750	65	Slip	72.00	7,193
3	12	30.000	0.3750	65	Slip	72.00	4,794
4	12	20.000	0.3125	65	Flange	0.00	2,335
5	12	20.000	0.3125	65	Slip	60.00	2,179
6	12	30.000	0.2500	65	Flange	0.00	2,221
7	R	5.000	0.2500	65	Flange	0.00	316
8	R	10.000	0.2500	50	Flange	0.00	421
Total Shaft Weight:							23,786

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	50.38	0.00	60.38	19265.63	33.85	134.33	46.11	22.00	55.22	14741.2	30.80	122.9	0.194000
2	48.02	16.00	57.53	16670.65	32.17	128.06	40.26	56.00	48.16	9779.90	26.62	107.3	0.194000
3	42.17	50.00	50.47	11256.46	27.99	112.47	36.35	80.00	43.45	7178.88	23.83	96.95	0.194000
4	36.35	80.00	36.27	6013.63	29.03	116.34	32.48	100.00	32.36	4273.08	25.70	103.9	0.194000
5	34.07	95.00	33.97	4940.86	27.07	109.02	30.19	115.00	30.06	3425.51	23.74	96.61	0.194000
6	30.19	115.0	24.10	2757.64	30.21	120.76	24.38	145.00	19.42	1441.83	23.98	97.50	0.194000
7	24.38	145.0	18.95	1379.54	0.00	97.50	24.38	150.00	18.19	1219.74	0.00	97.50	0.194000
8	16.00	150.0	12.37	383.86	0.00	64.00	16.00	160.00	12.37	383.86	0.00	64.00	0.000000

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	
0.00	16.25	3	PLT C10x30(1.5" Hole)	65	80	0.00	AJM20&sleeve	20.00	AJM20&sleeve	3.00		
0.00	1.00	3	SOL 2 1/4" William R71	128	150	5.62	5/8" Hollo Bolt	12.00	5/8" Hollo Bolt	3.00		
1.00	18.88	2	LNP LP6X100-BW-20T	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00		9
1.00	18.88	1	LNP LP6x100-B2-20T	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00		9
16.25	31.00	3	PLT C10x15.3(1.5" Hole)	65	80	0.00	AJM20&sleeve	20.00	AJM20&sleeve	3.00		4
18.63	33.38	3	LNP LP6X100-G-20TT	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00	10	10
30.00	46.00	3	PLT 6"x1-1/4"(1.25" Hole)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00	8	8
45.16	58.00	3	PLT 7" x 1.25"(1.25"Hole)	65	80	0.00	AJM20&sleeve	12.00	AJM20&sleeve	3.00	13	
58.00	78.00	3	PLT 5.5"x1 1/4"(1.25"hol)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00		
78.00	95.58	3	PLT 5.5"x1 1/4"(1.25"hol)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00		10

Load Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 6



Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	160.00	DB222	1	16.00	2.25	1.00	62.50	6.317	1.00	0.00	5.00
2	160.00	DB846F65ZAXY	6	21.00	7.05	0.93	145.05	7.851	0.93	0.00	2.00
3	160.00	Low Profile Platform	1	1200.00	22.00	1.00	1902.61	33.851	1.00	0.00	2.00
4	160.00	JAHH-65B-R3B	6	54.00	9.11	0.83	168.75	7.426	0.83	0.00	2.00
5	160.00	VZS01	3	87.10	4.30	0.69	161.90	5.322	0.69	0.00	2.00
6	160.00	CBC78T-DS-43	1	20.70	0.37	1.00	38.29	0.546	1.00	0.00	2.00
7	160.00	B2/B66A RRH-BR049	3	70.00	1.87	0.67	112.71	2.243	0.67	0.00	2.00
8	160.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	84.40	1.87	0.67	131.77	2.243	0.67	0.00	2.00
9	160.00	Commscope FE-16148-OVP-B12 -	1	15.00	2.51	1.00	57.39	2.235	1.00	0.00	2.00
10	160.00	6' Lightning rod	1	6.50	0.38	1.00	30.86	1.110	1.00	0.00	3.00
11	152.00	MC-PK8-DSH	1	1727.00	37.59	1.00	2853.71	69.121	1.00	0.00	0.00
12	152.00	MX08FRO665-21	3	64.50	12.49	0.74	258.67	13.468	0.74	0.00	0.00
13	152.00	TA08025-B605	3	75.00	1.96	0.67	109.92	2.334	0.67	0.00	0.00
14	152.00	TA08025-B604	3	63.90	1.96	0.67	97.70	2.334	0.67	0.00	0.00
15	152.00	RDIDC-9181-OF-48	1	21.90	2.01	1.00	57.45	2.389	1.00	0.00	0.00
16	142.00	Mod	1	300.00	12.00	1.00	577.71	20.331	1.00	0.00	0.00
17	142.00	AIR 21, 1.3M, B2A B4P	3	91.50	6.09	0.86	303.25	7.499	0.88	0.00	0.00
18	142.00	KRD 9011461-B66A-B2A	4	132.20	6.51	0.87	438.14	8.017	0.89	0.00	0.00
19	142.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	424.22	24.924	0.72	0.00	0.00
20	142.00	APXVA18-43-C-A20	1	45.40	9.65	0.82	202.26	10.525	0.84	0.00	0.00
21	142.00	KRY 112 144/1	3	11.00	0.41	0.50	18.15	0.725	0.50	0.00	0.00
22	142.00	4449 B71 + B85	4	73.20	1.97	0.67	111.48	2.348	0.67	0.00	0.00
23	142.00	4415	1	44.10	1.86	0.67	75.55	2.240	0.67	0.00	0.00
24	142.00	Platform w/ HR & Bracing	1	2246.00	52.00	1.00	4325.11	77.512	1.00	0.00	0.00
25	134.75	AIR 6419 B77G	3	66.10	3.80	0.76	129.56	4.325	0.76	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	101.00	17.12	0.71	345.80	18.249	0.71	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	95.70	17.87	0.73	357.31	19.053	0.73	0.00	0.00
28	133.00	4478 B14	3	59.90	1.84	0.67	90.86	2.187	0.67	0.00	0.00
29	133.00	DC9-48-60-24-8C-EV	1	26.20	1.14	1.00	96.02	2.185	1.00	0.00	0.00
30	133.00	Kathrein 800-10965	3	108.60	13.81	0.71	295.10	14.836	0.71	0.00	0.00
31	133.00	(3) SitePro 1 P/N RMV12-NP W/3	2	1357.77	21.34	0.75	2231.84	39.003	0.75	0.00	0.00
32	133.00	Powerwave LGP21401 TMA	6	14.10	1.29	0.67	30.57	1.841	0.67	0.00	0.00
33	133.00	Ericsson RRU-32 RRU	3	77.00	3.87	0.67	146.63	3.822	0.67	0.00	0.00
34	133.00	Ericsson B2/B66A 8843 RRU	3	72.00	1.64	0.67	102.86	1.967	0.67	0.00	0.00
35	133.00	Ericsson B5/B12 4449 RRU	3	71.00	1.97	0.67	106.16	2.330	0.67	0.00	0.00
36	133.00	Raycap DC6-48-60-18-8F Junction	2	31.80	0.92	0.67	72.52	1.208	0.67	0.00	0.00
37	131.75	AIR 6449 B77D	3	88.00	4.13	0.85	172.88	4.682	0.85	0.00	0.00
38	110.00	DB222	1	16.00	2.65	1.00	60.79	7.264	1.00	0.00	5.29
39	110.00	3 ft Standoff	1	40.00	2.63	1.00	91.89	6.488	1.00	0.00	0.00
40	40.00	GPS	1	10.00	1.00	1.00	27.13	1.416	1.00	0.00	0.00
Totals:			96	13,821.84			28,368.62				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	160.00	(17) 1 5/8" Coax	0.00	Inside

Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice		Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)		
0.00	160.00	(2) 1 5/8" Hybrid		2.00						
0.00	160.00	(1) 7/8" Coax		0.00						
0.00	152.00	(1) 1.75" Hybrid		0.00						
0.00	142.00	(10) 1 5/8" Coax		0.00						
0.00	142.00	(2) 1 5/8" Fiber		0.00						
0.00	142.00	(2) 1-1/4" Fiber		0.00						
0.00	133.00	(7) 0.92" DC Power		0.00						
0.00	133.00	(6) 1 1/4" Coax		0.00						
0.00	133.00	(6) 1 5/8" Coax		0.00						
0.00	133.00	(1) 1/2" Fiber		0.00						
0.00	133.00	(2) 3/8" Fiber		0.00						
0.00	110.00	(1) 7/8" Coax		0.00						
28.00	98.00	(3) 1.25" Reinforcing plate		1.25						
0.00	40.00	(1) 1/2" Coax		0.00						
0.00	32.00	(3) 1" Reinforcing plate		1.00						
0.00	32.00	(3) C10x15.3		2.60						

Shaft Section Properties

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
0.00	RB1 RB2	0.3750	50.375	60.375	19265.6	33.85	134.33	65	68	0.0	38.70	17446.6	13285.7	
1.00	RT2 RB3 RB4	0.3750	50.181	60.141	19042.2	33.71	133.82	65	68	205.0	44.46	16928.4	13002.7	151.2
2.00		0.3750	49.987	59.906	18820.6	33.57	133.30	65	68	204.2	44.46	16802.1	12906.2	151.2
4.00		0.3750	49.599	59.438	18382.5	33.30	132.26	65	68	406.1	44.46	16551.1	12714.2	302.5
6.00		0.3750	49.211	58.969	17951.2	33.02	131.23	65	69	402.9	44.46	16301.9	12523.7	302.5
8.00		0.3750	48.823	58.501	17526.7	32.74	130.19	65	69	399.7	44.46	16054.6	12334.6	302.5
10.00		0.3750	48.435	58.032	17109.0	32.46	129.16	65	69	396.5	44.46	15809.2	12147.0	302.5
12.00		0.3750	48.047	57.564	16698.0	32.19	128.13	65	70	393.3	44.46	15565.7	11960.8	302.5
14.00		0.3750	47.659	57.095	16293.5	31.91	127.09	65	70	390.2	44.46	15324.1	11776.1	302.5
16.00	Bot - Section 2	0.3750	47.271	56.627	15895.7	31.63	126.06	65	70	387.0	44.46	15084.3	11592.8	302.5
16.25	RT1 RB5	0.3750	47.222	56.568	15846.5	31.60	125.93	65	70	97.1	31.47	11629.5	8035.3	26.8
18.00		0.3750	46.883	56.158	15504.4	31.36	125.02	65	71	676.7	31.47	11472.0	7927.5	187.5
18.63	RB6	0.3750	46.761	56.011	15382.5	31.27	124.70	65	71	242.4	49.47	16750.0	13223.8	106.1
18.88	RT3 RT4	0.3750	46.712	55.952	15334.3	31.23	124.57	65	71	96.0	31.47	9686.5	9686.5	26.8
20.00		0.3750	46.495	55.690	15119.6	31.08	123.99	65	71	428.9	31.47	9602.0	9602.0	120.0
22.00	Top - Section 1	0.3750	46.857	56.127	15478.5	31.34	124.95	65	71	761.0	31.47	9452.1	9452.1	214.3
24.00		0.3750	46.469	55.659	15094.1	31.06	123.92	65	71	380.4	31.47	9303.4	9303.4	214.3
26.00		0.3750	46.081	55.190	14716.1	30.78	122.88	65	71	377.2	31.47	9155.8	9155.8	214.3
28.00		0.3750	45.693	54.721	14344.5	30.51	121.85	65	71	374.0	31.47	9009.5	9009.5	214.3
30.00	RB7	0.3750	45.305	54.253	13979.2	30.23	120.81	65	72	370.8	53.97	14995.2	14995.2	367.4
31.00	RT5	0.3750	45.111	54.019	13798.9	30.09	120.30	65	72	184.2	40.50	10892.0	10892.0	137.8
32.00		0.3750	44.917	53.784	13620.2	29.95	119.78	65	72	183.4	40.50	10801.3	10801.3	137.8
33.38	RT6	0.3750	44.649	53.461	13376.0	29.76	119.06	65	72	251.8	22.50	5960.4	5960.4	105.7
34.00		0.3750	44.529	53.316	13267.3	29.67	118.74	65	72	112.6	22.50	5929.4	5929.4	47.5
36.00		0.3750	44.141	52.847	12920.6	29.40	117.71	65	73	361.3	22.50	5829.9	5829.9	153.1
38.00		0.3750	43.753	52.379	12580.0	29.12	116.67	65	73	358.1	22.50	5731.3	5731.3	153.1
40.00		0.3750	43.365	51.910	12245.5	28.84	115.64	65	73	354.9	22.50	5633.5	5633.5	153.1
42.00		0.3750	42.977	51.442	11916.9	28.56	114.61	65	74	351.7	22.50	5536.5	5536.5	153.1
44.00		0.3750	42.589	50.973	11594.2	28.29	113.57	65	74	348.5	22.50	5440.4	5440.4	153.1
45.16	RB8	0.3750	42.364	50.702	11409.8	28.13	112.97	65	74	200.7	48.75	11681.9	11681.9	192.4
46.00	RT7	0.3750	42.201	50.505	11277.5	28.01	112.54	65	74	144.6	26.25	6250.3	6250.3	75.0
48.00		0.3750	41.813	50.036	10966.5	27.73	111.50	65	74	342.1	26.25	6140.1	6140.1	178.6
50.00	Bot - Section 3	0.3750	41.425	49.568	10661.4	27.46	110.47	65	75	338.9	26.25	6031.0	6031.0	178.6
52.00		0.3750	41.037	49.099	10361.9	27.18	109.43	65	75	677.6	26.25	6132.8	6132.8	178.6
54.00		0.3750	40.649	48.631	10068.1	26.90	108.40	65	75	671.3	26.25	6023.7	6023.7	178.6
56.00	Top - Section 2	0.3750	41.011	49.068	10342.0	27.16	109.36	65	75	664.9	26.25	5915.6	5915.6	178.6
58.00	RT8 RB9	0.3750	40.623	48.599	10048.6	26.88	108.33	65	75	332.3	20.63	4547.7	4547.7	140.4
60.00		0.3750	40.235	48.131	9760.8	26.61	107.29	65	76	329.2	20.63	4464.3	4464.3	140.4
62.00		0.3750	39.847	47.662	9478.5	26.33	106.26	65	76	326.0	20.63	4381.7	4381.7	140.4
64.00		0.3750	39.459	47.194	9201.7	26.05	105.22	65	76	322.8	20.63	4299.9	4299.9	140.4
66.00		0.3750	39.071	46.725	8930.4	25.77	104.19	65	77	319.6	20.63	4218.8	4218.8	140.4
68.00		0.3750	38.683	46.257	8664.5	25.50	103.15	65	77	316.4	20.63	4138.5	4138.5	140.4
70.00		0.3750	38.295	45.788	8403.8	25.22	102.12	65	77	313.2	20.63	4059.0	4059.0	140.4
72.00		0.3750	37.907	45.320	8148.5	24.94	101.09	65	78	310.0	20.63	3980.3	3980.3	140.4
74.00		0.3750	37.519	44.851	7898.4	24.66	100.05	65	78	306.8	20.63	3902.4	3902.4	140.4
76.00		0.3750	37.131	44.383	7653.5	24.39	99.02	65	78	303.6	20.63	3825.2	3825.2	140.4
78.00	RT9 RB10	0.3750	36.743	43.914	7413.6	24.11	97.98	65	78	300.5	20.63	3748.8	3748.8	140.4
80.00	Top - Section 3	0.3750	36.355	43.446	7178.9	23.83	96.95	65	79	297.3	20.63	3673.2	3673.2	140.4
80.00	Bot - Section 4	0.3125	36.355	36.268	6013.6	28.60	116.34	65	73					
82.00		0.3125	35.967	35.877	5821.5	28.70	115.09	65	73	245.5	20.63	3598.3	3598.3	140.4

Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
84.00		0.3125	35.579	35.487	5633.5	28.36	113.85	65	74	242.8	20.63	3524.2	3524.2	140.4
86.00		0.3125	35.191	35.096	5449.6	28.03	112.61	65	74	240.2	20.63	3451.0	3451.0	140.4
88.00		0.3125	34.803	34.706	5269.8	27.70	111.37	65	75	237.5	20.63	3378.4	3378.4	140.4
90.00		0.3125	34.415	34.316	5093.9	27.37	110.13	65	75	234.9	20.63	3306.7	3306.7	140.4
92.00		0.3125	34.027	33.925	4922.0	27.03	108.89	65	75	232.2	20.63	3235.7	3235.7	140.4
94.00		0.3125	33.639	33.535	4754.0	26.70	107.64	65	76	229.6	20.63	3165.5	3165.5	140.4
95.00	Bot - Section 5	0.3125	33.445	33.340	4671.5	26.53	107.02	65	76	113.8	20.63	3130.7	3130.7	70.2
95.58	RT10	0.3125	33.332	33.226	4624.0	26.44	106.66	65	76	132.6	20.63	3223.1	3223.1	40.7
96.00		0.3125	33.251	33.144	4589.9	26.37	106.40	65	76	95.8				
98.00		0.3125	32.863	32.754	4429.6	26.03	105.16	65	76	452.8				
100.00	Top - Section 4	0.3125	33.100	32.992	4527.1	26.24	105.92	65	76	447.4				
102.00		0.3125	32.712	32.602	4368.2	25.90	104.68	65	76	223.2				
104.00		0.3125	32.324	32.212	4213.2	25.57	103.44	65	77	220.5				
106.00		0.3125	31.936	31.821	4061.8	25.24	102.20	65	77	217.9				
108.00		0.3125	31.548	31.431	3914.1	24.91	100.95	65	78	215.2				
110.00		0.3125	31.160	31.040	3770.1	24.57	99.71	65	78	212.6				
112.00		0.3125	30.772	30.650	3629.6	24.24	98.47	65	78	209.9				
114.00		0.3125	30.384	30.259	3492.7	23.91	97.23	65	79	207.3				
115.00	Top - Section 5	0.3125	30.190	30.064	3425.5	23.74	96.61	65	79	102.6				
115.00	Bot - Section 6	0.2500	30.190	24.102	2757.6	29.68	120.76	65	72					
116.00		0.2500	29.996	23.946	2704.4	30.01	119.98	65	72	81.7				
118.00		0.2500	29.608	23.633	2599.9	29.59	118.43	65	72	161.9				
120.00		0.2500	29.220	23.321	2498.2	29.17	116.88	65	73	159.8				
122.00		0.2500	28.832	23.009	2399.2	28.76	115.33	65	73	157.6				
124.00		0.2500	28.444	22.696	2302.8	28.34	113.78	65	74	155.5				
126.00		0.2500	28.056	22.384	2209.0	27.93	112.22	65	74	153.4				
128.00		0.2500	27.668	22.071	2117.8	27.51	110.67	65	75	151.3				
130.00		0.2500	27.280	21.759	2029.2	27.10	109.12	65	75	149.1				
131.75		0.2500	26.941	21.486	1953.7	26.73	107.76	65	76	128.8				
132.00		0.2500	26.892	21.447	1943.0	26.68	107.57	65	76	18.3				
133.00		0.2500	26.698	21.291	1900.9	26.47	106.79	65	76	72.7				
134.00		0.2500	26.504	21.134	1859.4	26.26	106.02	65	76	72.2				
134.75		0.2500	26.359	21.017	1828.6	26.11	105.43	65	76	53.8				
136.00		0.2500	26.116	20.822	1778.2	25.85	104.46	65	77	89.0				
138.00		0.2500	25.728	20.510	1699.3	25.43	102.91	65	77	140.6				
140.00		0.2500	25.340	20.197	1622.9	25.02	101.36	65	77	138.5				
142.00		0.2500	24.952	19.885	1548.7	24.60	99.81	65	78	136.4				
144.00		0.2500	24.564	19.573	1476.9	24.18	98.26	65	78	134.3				
145.00	Top - Section 6	0.2500	24.370	19.417	1441.8	23.98	97.48	65	79	66.3				
145.00	Bot - Section 7	0.2500	24.375	18.948	1379.5	23.98	97.48	65	55					
146.00		0.2500	24.181	18.795	1346.5	0.00	96.72	65	55	64.2				
148.00		0.2500	23.793	18.491	1282.1	0.00	95.17	65	55	126.9				
150.00	Top - Section 7	0.2500	23.405	18.186	1219.7	0.00	93.62	65	55	124.8				
150.00	Bot - Section 8	0.2500	16.000	12.370	383.9	0.00	93.62	50	50					
152.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
154.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
156.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
158.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
160.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
Total Weight										23786.1	9244.5			

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

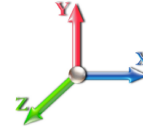


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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1 RB2	1.00	0.70	26.005	28.61	449.40	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3 RB4	1.00	0.70	26.005	28.61	447.67	0.972 *	0.000	1.00	4.338	4.21	120.6	0.0	246.1
2.00		1.00	0.70	26.005	28.61	445.94	0.973 *	0.000	1.00	4.321	4.20	120.2	0.0	245.1
4.00		1.00	0.70	26.005	28.61	442.48	0.975 *	0.000	2.00	8.592	8.37	239.5	0.0	487.3
6.00		1.00	0.70	26.005	28.61	439.02	0.977 *	0.000	2.00	8.525	8.33	238.2	0.0	483.5
8.00		1.00	0.70	26.005	28.61	435.56	0.980 *	0.000	2.00	8.458	8.28	237.0	0.0	479.7
10.00		1.00	0.70	26.005	28.61	432.09	0.982 *	0.000	2.00	8.391	8.24	235.7	0.0	475.8
12.00		1.00	0.70	26.005	28.61	428.63	0.985 *	0.000	2.00	8.324	8.20	234.4	0.0	472.0
14.00		1.00	0.70	26.005	28.61	425.17	0.987 *	0.000	2.00	8.257	8.15	233.2	0.0	468.2
16.00	Bot - Section 2	1.00	0.70	26.005	28.61	421.71	0.990 *	0.000	2.00	8.190	8.11	231.9	0.0	464.4
16.25	RT1 RB5	1.00	0.70	26.005	28.61	421.28	0.991 *	0.000	0.25	1.035	1.03	29.4	0.0	116.5
18.00		1.00	0.70	26.005	28.61	418.25	0.993 *	0.000	1.75	7.217	7.16	204.9	0.0	812.0
18.63	RB6	1.00	0.70	26.005	28.61	417.16	0.994 *	0.000	0.63	2.586	2.57	73.5	0.0	290.9
18.88	RT3 RT4	1.00	0.70	26.005	28.61	416.73	0.995 *	0.000	0.25	1.024	1.02	29.1	0.0	115.2
20.00		1.00	0.70	26.005	28.61	414.79	0.996 *	0.000	1.12	4.576	4.56	130.3	0.0	514.7
22.00	Top - Section 1	1.00	0.70	26.005	28.61	411.33	0.998 *	0.000	2.00	8.118	8.10	231.8	0.0	913.2
24.00		1.00	0.70	26.005	28.61	414.56	0.995 *	0.000	2.00	8.052	8.01	229.2	0.0	456.5
26.00		1.00	0.70	26.005	28.61	411.09	0.998 *	0.000	2.00	7.985	7.97	228.0	0.0	452.6
28.00		1.00	0.70	26.005	28.61	407.63	1.001 *	0.000	2.00	7.918	7.93	226.7	0.0	448.8
30.00	RB7	1.00	0.70	26.027	28.63	404.34	1.079 *	0.000	2.00	7.851	8.47	242.6	0.0	445.0
31.00	RT5	1.00	0.71	26.272	28.90	404.50	1.082 *	0.000	1.00	3.900	4.22	122.0	0.0	221.1
32.00		1.00	0.71	26.511	29.16	404.59	1.084 *	0.000	1.00	3.883	4.21	122.8	0.0	220.1
33.38	RT6	1.00	0.72	26.833	29.52	404.61	0.950	0.000	1.38	5.332	5.07	149.5	0.0	302.2
34.00		1.00	0.73	26.974	29.67	404.59	0.950	0.000	0.62	2.385	2.27	67.2	0.0	135.2
36.00		1.00	0.74	27.418	30.16	404.35	0.950	0.000	2.00	7.650	7.27	219.2	0.0	433.5
38.00		1.00	0.75	27.845	30.63	403.90	0.950	0.000	2.00	7.583	7.20	220.6	0.0	429.7
40.00	Appurtenance(s)	1.00	0.76	28.256	31.08	403.26	0.950	0.000	2.00	7.516	7.14	221.9	0.0	425.8
42.00		1.00	0.77	28.653	31.52	402.45	0.950	0.000	2.00	7.449	7.08	223.0	0.0	422.0
44.00		1.00	0.78	29.036	31.94	401.48	0.950	0.000	2.00	7.382	7.01	224.0	0.0	418.2
45.16	RB8	1.00	0.79	29.253	32.18	400.84	0.950	0.000	1.16	4.251	4.04	129.9	0.0	240.8
46.00	RT7	1.00	0.79	29.407	32.35	400.35	0.950	0.000	0.84	3.064	2.91	94.2	0.0	173.6
48.00		1.00	0.80	29.767	32.74	399.09	0.950	0.000	2.00	7.248	6.89	225.5	0.0	410.5
50.00	Bot - Section 3	1.00	0.81	30.116	33.13	397.70	0.950	0.000	2.00	7.181	6.82	226.0	0.0	406.7
52.00		1.00	0.82	30.456	33.50	396.19	0.950	0.000	2.00	7.244	6.88	230.5	0.0	813.2
54.00		1.00	0.83	30.786	33.86	394.57	0.950	0.000	2.00	7.177	6.82	230.9	0.0	805.5
56.00	Top - Section 2	1.00	0.84	31.108	34.22	392.84	0.950	0.000	2.00	7.110	6.75	231.1	0.0	797.9
58.00	RT8 RB9	1.00	0.85	31.421	34.56	398.36	0.950	0.000	2.00	7.043	6.69	231.3	0.0	398.8
60.00		1.00	0.85	31.727	34.90	396.47	0.950	0.000	2.00	6.976	6.63	231.3	0.0	395.0
62.00		1.00	0.86	32.025	35.23	394.49	0.950	0.000	2.00	6.909	6.56	231.2	0.0	391.2
64.00		1.00	0.87	32.317	35.55	392.43	0.950	0.000	2.00	6.842	6.50	231.1	0.0	387.3
66.00		1.00	0.88	32.603	35.86	390.28	0.950	0.000	2.00	6.775	6.44	230.8	0.0	383.5
68.00		1.00	0.89	32.882	36.17	388.05	0.950	0.000	2.00	6.708	6.37	230.5	0.0	379.7
70.00		1.00	0.89	33.155	36.47	385.76	0.950	0.000	2.00	6.641	6.31	230.1	0.0	375.9
72.00		1.00	0.90	33.423	36.77	383.39	0.950	0.000	2.00	6.574	6.25	229.6	0.0	372.0
74.00		1.00	0.91	33.686	37.05	380.95	0.950	0.000	2.00	6.507	6.18	229.1	0.0	368.2
76.00		1.00	0.91	33.944	37.34	378.45	0.950	0.000	2.00	6.440	6.12	228.4	0.0	364.4
78.00	RT9 RB10	1.00	0.92	34.197	37.62	375.89	0.950	0.000	2.00	6.373	6.05	227.8	0.0	360.5

Wind Loading - Shaft

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B

Height: 160.00 (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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80.00 Top - Section 3	1.00	0.93	34.445	37.89	373.27	0.950	0.000	2.00	6.306	5.99	227.0	0.0	356.7
82.00	1.00	0.93	34.689	38.16	370.59	0.950	0.000	2.00	6.239	5.93	226.2	0.0	294.6
84.00	1.00	0.94	34.928	38.42	367.85	0.950	0.000	2.00	6.172	5.86	225.3	0.0	291.4
86.00	1.00	0.95	35.164	38.68	365.07	0.950	0.000	2.00	6.106	5.80	224.4	0.0	288.2
88.00	1.00	0.95	35.396	38.94	362.23	0.950	0.000	2.00	6.039	5.74	223.4	0.0	285.0
90.00	1.00	0.96	35.624	39.19	359.34	0.950	0.000	2.00	5.972	5.67	222.3	0.0	281.8
92.00	1.00	0.96	35.848	39.43	356.41	0.950	0.000	2.00	5.905	5.61	221.2	0.0	278.7
94.00	1.00	0.97	36.069	39.68	353.43	0.950	0.000	2.00	5.838	5.55	220.0	0.0	275.5
95.00 Bot - Section 5	1.00	0.97	36.178	39.80	351.92	0.950	0.000	1.00	2.894	2.75	109.4	0.0	136.5
95.58 RT10	1.00	0.98	36.241	39.87	351.04	0.950	0.000	0.58	1.702	1.62	64.5	0.0	159.1
96.00	1.00	0.98	36.287	39.92	350.41	0.950	0.000	0.42	1.229	1.17	46.6	0.0	114.9
98.00	1.00	0.98	36.501	40.15	347.34	0.950	0.000	2.00	5.812	5.52	221.7	0.0	543.3
100.00 Top - Section 4	1.00	0.99	36.712	40.38	344.23	0.950	0.000	2.00	5.745	5.46	220.4	0.0	536.9
102.00	1.00	0.99	36.921	40.61	347.72	0.950	0.000	2.00	5.678	5.39	219.1	0.0	267.8
104.00	1.00	1.00	37.126	40.84	344.55	0.950	0.000	2.00	5.611	5.33	217.7	0.0	264.7
106.00	1.00	1.00	37.329	41.06	341.35	0.950	0.000	2.00	5.544	5.27	216.3	0.0	261.5
108.00	1.00	1.01	37.529	41.28	338.10	0.950	0.000	2.00	5.477	5.20	214.8	0.0	258.3
110.00 Appurtenance(s)	1.00	1.02	37.726	41.50	334.82	0.950	0.000	2.00	5.410	5.14	213.3	0.0	255.1
112.00	1.00	1.02	37.921	41.71	331.50	0.950	0.000	2.00	5.343	5.08	211.7	0.0	251.9
114.00	1.00	1.03	38.113	41.92	328.15	0.950	0.000	2.00	5.276	5.01	210.1	0.0	248.7
115.00 Top - Section 5	1.00	1.03	38.208	42.03	326.46	0.950	0.000	1.00	2.613	2.48	104.3	0.0	123.2
116.00	1.00	1.03	38.303	42.13	324.77	0.950	0.000	1.00	2.596	2.47	103.9	0.0	98.1
118.00	1.00	1.04	38.490	42.34	321.35	0.950	0.000	2.00	5.142	4.89	206.8	0.0	194.3
120.00	1.00	1.04	38.675	42.54	317.90	0.950	0.000	2.00	5.075	4.82	205.1	0.0	191.7
122.00	1.00	1.05	38.859	42.74	314.42	0.950	0.000	2.00	5.008	4.76	203.4	0.0	189.2
124.00	1.00	1.05	39.040	42.94	310.91	0.950	0.000	2.00	4.941	4.69	201.6	0.0	186.6
126.00	1.00	1.06	39.218	43.14	307.37	0.950	0.000	2.00	4.874	4.63	199.8	0.0	184.1
128.00	1.00	1.06	39.395	43.33	303.80	0.950	0.000	2.00	4.807	4.57	197.9	0.0	181.5
130.00	1.00	1.07	39.570	43.53	300.21	0.950	0.000	2.00	4.741	4.50	196.0	0.0	179.0
131.75 Appurtenance(s)	1.00	1.07	39.722	43.69	297.04	0.950	0.000	1.75	4.093	3.89	169.9	0.0	154.5
132.00	1.00	1.07	39.743	43.72	296.58	0.950	0.000	0.25	0.581	0.55	24.1	0.0	21.9
133.00 Appurtenance(s)	1.00	1.07	39.829	43.81	294.76	0.950	0.000	1.00	2.312	2.20	96.2	0.0	87.3
134.00	1.00	1.07	39.914	43.91	292.93	0.950	0.000	1.00	2.295	2.18	95.7	0.0	86.6
134.75 Appurtenance(s)	1.00	1.08	39.978	43.98	291.56	0.950	0.000	0.75	1.710	1.62	71.4	0.0	64.5
136.00	1.00	1.08	40.084	44.09	289.26	0.950	0.000	1.25	2.829	2.69	118.5	0.0	106.8
138.00	1.00	1.08	40.251	44.28	285.55	0.950	0.000	2.00	4.473	4.25	188.1	0.0	168.8
140.00	1.00	1.09	40.417	44.46	281.83	0.950	0.000	2.00	4.406	4.19	186.1	0.0	166.2
142.00 Appurtenance(s)	1.00	1.09	40.581	44.64	278.07	0.950	0.000	2.00	4.339	4.12	184.0	0.0	163.7
144.00	1.00	1.10	40.744	44.82	274.30	0.950	0.000	2.00	4.272	4.06	181.9	0.0	161.1
145.00 Top - Section 6	1.00	1.10	40.824	44.91	272.40	0.950	0.000	1.00	2.111	2.01	90.1	0.0	79.6
146.00	1.00	1.10	40.904	44.99	261.33	0.600	0.000	1.00	2.023	1.21	54.6	0.0	77.1
148.00	1.00	1.11	41.064	45.17	257.64	0.600	0.000	2.00	3.998	2.40	108.3	0.0	152.3
150.00 Top - Section 7	1.00	1.11	41.222	45.34	253.93	0.600	0.000	2.00	3.933	2.36	107.0	0.0	149.8
152.00 Appurtenance(s)	1.00	1.11	41.378	45.52	173.92	0.645*	0.000	2.00	2.667	1.72	78.3	0.0	101.0
154.00	1.00	1.12	41.533	45.69	174.24	0.645*	0.000	2.00	2.667	1.72	78.6	0.0	101.0
156.00	1.00	1.12	41.686	45.85	174.56	0.645*	0.000	2.00	2.667	1.72	78.9	0.0	101.0
158.00	1.00	1.13	41.838	46.02	174.88	0.645*	0.000	2.00	2.667	1.72	79.2	0.0	101.0
160.00 Appurtenance(s)	1.00	1.13	41.989	46.19	175.20	0.645*	0.000	2.00	2.667	1.72	79.4	0.0	101.0
Totals:								160.00	16,630.3	28,543.3			

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

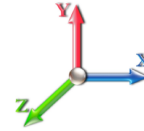


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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20
Wind Load Factor 1.00



No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	160.00	B5/B13 RRH-BR04C	3	42.138	46.352	0.67	1.00	3.76	303.84	0.000	2.000	174.22	0.00	348.44
2	160.00	JAHH-65B-R3B	6	42.138	46.352	0.66	0.80	36.29	388.80	0.000	2.000	1682.30	0.00	3364.61
3	160.00	VZS01	3	42.138	46.352	0.69	1.00	8.90	313.56	0.000	2.000	412.58	0.00	825.15
4	160.00	CBC78T-DS-43	1	42.138	46.352	1.00	1.00	0.37	24.84	0.000	2.000	17.15	0.00	34.30
5	160.00	B2/B66A RRH-BR049	3	42.138	46.352	0.67	1.00	3.76	252.00	0.000	2.000	174.22	0.00	348.44
6	160.00	6' Lightning rod	1	42.212	46.433	1.00	1.00	0.38	7.80	0.000	3.000	17.64	0.00	52.93
7	160.00	Commscope	1	42.138	46.352	1.00	1.00	2.51	18.00	0.000	2.000	116.34	0.00	232.69
8	160.00	DB222	1	42.359	46.595	1.00	1.00	2.25	19.20	0.000	5.000	104.84	0.00	524.20
9	160.00	DB846F65ZAXY	6	42.138	46.352	0.74	0.80	31.47	151.20	0.000	2.000	1458.75	0.00	2917.49
10	160.00	Low Profile Platform	1	42.138	46.352	1.00	1.00	22.00	1440.00	0.000	2.000	1019.74	0.00	2039.48
11	152.00	MC-PK8-DSH	1	41.378	45.516	1.00	1.00	37.59	2072.40	0.000	0.000	1710.93	0.00	0.00
12	152.00	MX08FRO665-21	3	41.378	45.516	0.55	0.75	20.80	232.20	0.000	0.000	946.54	0.00	0.00
13	152.00	TA08025-B605	3	41.378	45.516	0.50	0.75	2.95	270.00	0.000	0.000	134.48	0.00	0.00
14	152.00	TA08025-B604	3	41.378	45.516	0.50	0.75	2.95	230.04	0.000	0.000	134.48	0.00	0.00
15	152.00	RDIDC-9181-OF-48	1	41.378	45.516	0.75	0.75	1.51	26.28	0.000	0.000	68.61	0.00	0.00
16	142.00	Platform w/ HR & Bracing	1	40.581	44.639	1.00	1.00	52.00	2695.20	0.000	0.000	2321.24	0.00	0.00
17	142.00	Mod	1	40.581	44.639	1.00	1.00	12.00	360.00	0.000	0.000	535.67	0.00	0.00
18	142.00	4415	1	40.581	44.639	0.54	0.80	1.00	52.92	0.000	0.000	44.50	0.00	0.00
19	142.00	4449 B71 + B85	4	40.581	44.639	0.54	0.80	4.22	351.36	0.000	0.000	188.54	0.00	0.00
20	142.00	KRY 112 144/1	3	40.581	44.639	0.40	0.80	0.49	39.60	0.000	0.000	21.96	0.00	0.00
21	142.00	APXVA18-43-C-A20	1	40.581	44.639	0.61	0.75	5.93	54.48	0.000	0.000	264.92	0.00	0.00
22	142.00	APXVAARR24_43-U-NA2	3	40.581	44.639	0.52	0.75	31.88	460.80	0.000	0.000	1423.01	0.00	0.00
23	142.00	KRD 9011461-B66A-B2A	4	40.581	44.639	0.65	0.75	16.99	634.56	0.000	0.000	758.47	0.00	0.00
24	142.00	AIR 21, 1.3M, B2A B4P	3	40.581	44.639	0.65	0.75	11.78	329.40	0.000	0.000	526.03	0.00	0.00
25	134.75	AIR 6419 B77G	3	39.978	43.976	0.61	0.80	6.93	237.96	0.000	0.000	304.80	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	39.829	43.812	0.57	0.80	19.45	242.40	0.000	0.000	852.07	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	39.829	43.812	0.58	0.80	10.44	114.84	0.000	0.000	457.22	0.00	0.00
28	133.00	4478 B14	3	39.829	43.812	0.54	0.80	2.96	215.64	0.000	0.000	129.63	0.00	0.00
29	133.00	DC9-48-60-24-8C-EV	1	39.829	43.812	0.80	0.80	0.91	31.44	0.000	0.000	39.96	0.00	0.00
30	133.00	Kathrein 800-10965	3	39.829	43.812	0.57	0.80	23.53	390.96	0.000	0.000	1030.99	0.00	0.00
31	133.00	(3) SitePro 1 P/N	2	39.829	43.812	0.56	0.75	24.01	3258.65	0.000	0.000	1051.81	0.00	0.00
32	133.00	Powerwave LGP21401	6	39.829	43.812	0.54	0.80	4.15	101.52	0.000	0.000	181.76	0.00	0.00
33	133.00	Ericsson RRUS-32 RRU	3	39.829	43.812	0.54	0.80	6.22	277.20	0.000	0.000	272.64	0.00	0.00
34	133.00	Ericsson B2/B66A 8843	3	39.829	43.812	0.54	0.80	2.64	259.20	0.000	0.000	115.54	0.00	0.00
35	133.00	Ericsson B5/B12 4449	3	39.829	43.812	0.54	0.80	3.17	255.60	0.000	0.000	138.79	0.00	0.00
36	133.00	Raycap DC6-48-60-18-8F	2	39.829	43.812	0.54	0.80	0.99	76.32	0.000	0.000	43.21	0.00	0.00
37	131.75	AIR 6449 B77D	3	39.722	43.694	0.68	0.80	8.43	316.80	0.000	0.000	368.13	0.00	0.00
38	110.00	3 ft Standoff	1	37.726	41.498	1.00	1.00	2.63	48.00	0.000	0.000	109.14	0.00	0.00
39	110.00	DB222	1	38.236	42.059	1.00	1.00	2.65	19.20	0.000	5.292	111.46	0.00	589.80
40	40.00	GPS	1	28.256	31.082	1.00	1.00	1.00	12.00	0.000	0.000	31.08	0.00	0.00

Totals: **16,586.21** **19,495.41**

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 13



Load Case: 1.2D + 1.0W 125 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 28

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		120.56	667.13	0.00	0.00
2.00		120.24	666.18	0.00	0.00
4.00		239.52	1329.48	0.00	0.00
6.00		238.25	1325.65	0.00	0.00
8.00		236.98	1321.83	0.00	0.00
10.00		235.70	1318.00	0.00	0.00
12.00		234.43	1314.18	0.00	0.00
14.00		233.16	1310.35	0.00	0.00
16.00		231.88	1306.52	0.00	0.00
16.25		29.35	221.75	0.00	0.00
18.00		204.93	1548.89	0.00	0.00
18.63		73.54	556.16	0.00	0.00
18.88		29.15	220.49	0.00	0.00
20.00		130.33	986.33	0.00	0.00
22.00		231.76	1755.33	0.00	0.00
24.00		229.25	1298.62	0.00	0.00
26.00		227.98	1294.79	0.00	0.00
28.00		226.70	1290.96	0.00	0.00
30.00		242.62	1647.14	0.00	0.00
31.00		121.97	822.13	0.00	0.00
32.00		122.76	821.18	0.00	0.00
33.38		149.50	634.85	0.00	0.00
34.00		67.23	284.63	0.00	0.00
36.00		219.18	915.66	0.00	0.00
38.00		220.65	911.83	0.00	0.00
40.00	(1) attachments	253.01	920.01	0.00	0.00
42.00		223.04	903.80	0.00	0.00
44.00		223.99	899.97	0.00	0.00
45.16		129.95	520.23	0.00	0.00
46.00		94.16	375.91	0.00	0.00
48.00		225.47	892.32	0.00	0.00
50.00		226.00	888.49	0.00	0.00
52.00		230.54	1294.95	0.00	0.00
54.00		230.88	1287.30	0.00	0.00
56.00		231.12	1279.65	0.00	0.00
58.00		231.25	880.58	0.00	0.00
60.00		231.28	876.76	0.00	0.00
62.00		231.22	872.93	0.00	0.00
64.00		231.06	869.10	0.00	0.00
66.00		230.82	865.28	0.00	0.00
68.00		230.50	861.45	0.00	0.00
70.00		230.10	857.63	0.00	0.00
72.00		229.62	853.80	0.00	0.00
74.00		229.07	849.97	0.00	0.00
76.00		228.44	846.15	0.00	0.00
78.00		227.75	842.32	0.00	0.00

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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80.00		227.00	838.49	0.00	0.00
82.00		226.18	776.37	0.00	0.00
84.00		225.30	773.18	0.00	0.00
86.00		224.36	769.99	0.00	0.00
88.00		223.36	766.80	0.00	0.00
90.00		222.30	763.61	0.00	0.00
92.00		221.20	760.42	0.00	0.00
94.00		220.04	757.24	0.00	0.00
95.00		109.40	377.42	0.00	0.00
95.58		64.46	298.85	0.00	0.00
96.00		46.60	216.08	0.00	0.00
98.00		221.68	1025.08	0.00	0.00
100.00		220.39	658.70	0.00	0.00
102.00		219.06	389.62	0.00	0.00
104.00		217.68	386.43	0.00	0.00
106.00		216.26	383.24	0.00	0.00
108.00		214.79	380.05	0.00	0.00
110.00	(2) attachments	433.88	444.06	0.00	589.80
112.00		211.73	372.43	0.00	0.00
114.00		210.14	369.24	0.00	0.00
115.00		104.33	183.42	0.00	0.00
116.00		103.92	158.36	0.00	0.00
118.00		206.83	314.81	0.00	0.00
120.00		205.12	312.25	0.00	0.00
122.00		203.37	309.70	0.00	0.00
124.00		201.59	307.15	0.00	0.00
126.00		199.77	304.60	0.00	0.00
128.00		197.91	302.05	0.00	0.00
130.00		196.02	299.50	0.00	0.00
131.75	(3) attachments	538.03	576.77	0.00	0.00
132.00		24.11	36.98	0.00	0.00
133.00	(29) attachments	4409.82	5371.29	0.00	0.00
134.00		95.72	130.90	0.00	0.00
134.75	(3) attachments	376.25	335.71	0.00	0.00
136.00		118.52	162.13	0.00	0.00
138.00		188.13	257.33	0.00	0.00
140.00		186.08	254.78	0.00	0.00
142.00	(21) attachments	6268.34	5230.55	0.00	0.00
144.00		181.88	214.86	0.00	0.00
145.00		90.05	106.47	0.00	0.00
146.00		54.62	103.93	0.00	0.00
148.00		108.35	205.99	0.00	0.00
150.00		107.01	203.50	0.00	0.00
152.00	(11) attachments	3073.34	2985.68	0.00	0.00
154.00		78.58	149.98	0.00	0.00
156.00		78.87	149.98	0.00	0.00
158.00		79.16	149.98	0.00	0.00
160.00	(26) attachments	5257.23	3069.22	0.00	10687.74
Totals:		36,125.66	78,203.83	0.00	11,277.54

Linear Appurtenance Segment Forces (Factored)

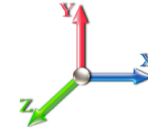
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 125 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	26.005	0.00	2.64
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	0.62
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	2.39
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	2.64
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	2.29
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	0.62
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	26.005	0.00	144.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	26.005	0.00	216.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	26.005	0.00	2.64
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	0.62
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	2.39
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	2.64
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	2.29
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	0.62
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	26.005	0.00	144.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	26.005	0.00	216.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	26.005	0.00	5.28
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	1.25
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	4.78
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	5.28
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	4.58
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	1.25
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	26.005	0.00	288.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	26.005	0.00	432.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	26.005	0.00	5.28
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	1.25
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	4.78
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	5.28
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	4.58
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	1.25
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	26.005	0.00	288.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	26.005	0.00	432.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	26.005	0.00	5.28
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	1.25
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	4.78
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	5.28
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	4.58
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	1.25
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	26.005	0.00	288.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	26.005	0.00	432.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	26.005	0.00	5.28
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	1.25
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	4.78
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	5.28
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	4.58
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	1.25
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	26.005	0.00	288.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



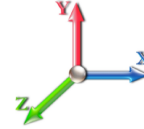
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	26.005	0.00	432.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	26.005	0.00	5.28
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	1.25
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	4.78
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	5.28
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	4.58
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	1.25
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	26.005	0.00	288.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	26.005	0.00	432.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	26.005	0.00	5.28
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	1.25
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	4.78
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	5.28
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	4.58
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	1.25
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	26.005	0.00	288.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	26.005	0.00	432.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	26.005	0.00	5.28
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	1.25
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	4.78
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	5.28
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	4.58
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	1.25
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	26.005	0.00	288.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	26.005	0.00	432.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	26.005	0.00	0.66
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.16
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.60
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.66
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.57
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.16
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	26.005	0.00	36.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	26.005	0.00	54.00
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	26.005	0.00	4.62
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	1.09
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	4.18
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	4.62
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	4.01
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	1.09
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	26.005	0.00	252.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	26.005	0.00	378.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	26.005	0.00	1.66
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.39
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	1.51
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	1.66
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	1.44
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.39

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



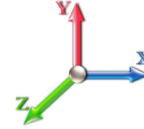
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	26.005	0.00	90.72
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	26.005	0.00	136.08
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	26.005	0.00	0.66
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.16
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.60
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.66
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.57
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.16
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	26.005	0.00	36.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	26.005	0.00	54.00
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	26.005	0.00	2.96
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	0.70
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	2.68
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	2.96
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	2.56
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	0.70
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	26.005	0.00	161.28
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	26.005	0.00	241.92
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	26.005	0.00	5.28
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	1.25
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	4.78
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	5.28
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	4.58
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	1.25
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	26.005	0.00	288.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	26.005	0.00	432.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	26.005	0.00	5.28
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	1.25
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	4.78
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	5.28
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	4.58
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	1.25
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	26.005	0.00	288.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	26.005	0.00	432.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	26.005	0.00	5.28
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	1.25
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	4.78
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	5.28
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	4.58
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	1.25
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	26.005	0.00	288.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	26.005	0.00	432.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	26.005	0.00	5.28
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	1.25
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	4.78
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	5.28
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	4.58

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



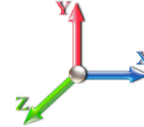
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	1.25
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	26.005	0.00	288.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	26.005	0.00	432.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	26.027	0.00	5.28
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	1.25
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	4.78
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	5.28
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	4.58
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	1.25
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	26.027	0.00	360.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	26.027	0.00	288.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	26.027	0.00	432.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	26.272	0.00	2.64
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	0.62
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	2.39
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	2.64
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	2.29
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	0.62
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	26.272	0.00	180.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	26.272	0.00	144.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	26.272	0.00	216.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	26.511	0.00	2.64
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	0.62
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	2.39
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	2.64
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	2.29
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	0.62
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	26.511	0.00	180.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	26.511	0.00	144.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	26.511	0.00	216.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	26.833	0.00	3.64
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	0.86
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	3.30
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	3.64
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	3.16
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	0.86
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	26.833	0.00	248.40
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	26.974	0.00	1.64
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	0.39
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	1.48
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	1.64
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	1.42
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	0.39
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	26.974	0.00	111.60
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	27.418	0.00	5.28
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	1.25
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	4.78

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B



Height: 160.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

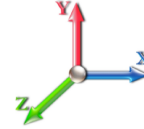
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	5.28
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	4.58
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	1.25
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	27.418	0.00	360.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	27.845	0.00	5.28
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	1.25
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	4.78
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	5.28
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	4.58
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	1.25
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	27.845	0.00	360.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	28.256	0.00	5.28
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	1.25
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	4.78
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	5.28
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	4.58
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	1.25
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	28.256	0.00	360.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	28.653	0.00	5.28
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	1.25
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	4.78
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	5.28
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	4.58
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	1.25
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	28.653	0.00	360.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	29.036	0.00	5.28
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	1.25
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	4.78
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	5.28
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	4.58
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	1.25
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	29.036	0.00	360.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	29.253	0.00	3.06
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	0.72
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	2.77
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	3.06
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	2.66
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	0.72
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	29.253	0.00	208.80
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	29.407	0.00	2.22
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	0.52
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	2.01
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	2.22
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	1.92
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	0.52
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	29.407	0.00	151.20
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	29.767	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	1.25
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	4.78
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	5.28
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	4.58
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	1.25
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	29.767	0.00	360.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	30.116	0.00	5.28
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	1.25
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	4.78
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	5.28
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	4.58
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	1.25
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	30.116	0.00	360.00
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	30.456	0.00	5.28
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	1.25
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	4.78
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	5.28
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	4.58
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	1.25
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	30.456	0.00	360.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	30.786	0.00	5.28
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	1.25
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	4.78
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	5.28
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	4.58
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	1.25
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	30.786	0.00	360.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	31.108	0.00	5.28
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	1.25
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	4.78
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	5.28
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	4.58
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	1.25
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	31.108	0.00	360.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	31.421	0.00	5.28
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	1.25
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	4.78
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	5.28
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	4.58
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	1.25
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	31.421	0.00	360.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	31.727	0.00	5.28
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	1.25
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	4.78
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	5.28
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	4.58
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	1.25

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



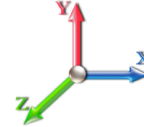
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	31.727	0.00	360.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	32.025	0.00	5.28
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	1.25
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	4.78
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	5.28
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	4.58
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	1.25
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	32.025	0.00	360.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	32.317	0.00	5.28
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	1.25
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	4.78
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	5.28
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	4.58
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	1.25
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	32.317	0.00	360.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	32.603	0.00	5.28
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	1.25
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	4.78
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	5.28
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	4.58
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	1.25
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	32.603	0.00	360.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	32.882	0.00	5.28
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	1.25
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	4.78
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	5.28
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	4.58
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	1.25
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	32.882	0.00	360.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	33.155	0.00	5.28
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	1.25
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	4.78
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	5.28
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	4.58
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	1.25
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	33.155	0.00	360.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	33.423	0.00	5.28
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	1.25
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	4.78
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	5.28
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	4.58
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	1.25
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	33.423	0.00	360.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	33.686	0.00	5.28
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	1.25
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	4.78
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



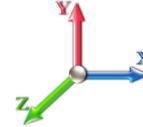
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	4.58
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	1.25
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	33.686	0.00	360.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	33.944	0.00	5.28
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	1.25
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	4.78
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	5.28
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	4.58
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	1.25
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	33.944	0.00	360.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	34.197	0.00	5.28
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	1.25
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	4.78
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	5.28
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	4.58
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	1.25
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	34.197	0.00	360.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	34.445	0.00	5.28
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	1.25
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	4.78
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	5.28
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	4.58
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	1.25
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	34.445	0.00	360.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	34.689	0.00	5.28
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	1.25
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	4.78
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	5.28
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	4.58
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	1.25
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	34.689	0.00	360.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	34.928	0.00	5.28
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	1.25
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	4.78
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	5.28
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	4.58
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	1.25
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	34.928	0.00	360.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	35.164	0.00	5.28
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	1.25
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	4.78
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	5.28
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	4.58
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	1.25
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	35.164	0.00	360.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	35.396	0.00	5.28
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	1.25

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



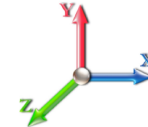
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	4.78
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	5.28
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	4.58
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	1.25
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	35.396	0.00	360.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	35.624	0.00	5.28
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	1.25
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	4.78
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	5.28
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	4.58
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	1.25
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	35.624	0.00	360.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	35.848	0.00	5.28
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	1.25
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	4.78
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	5.28
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	4.58
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	1.25
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	35.848	0.00	360.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	36.069	0.00	5.28
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	1.25
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	4.78
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	5.28
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	4.58
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	1.25
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	36.069	0.00	360.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	36.178	0.00	2.64
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	0.62
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	2.39
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	2.64
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	2.29
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	0.62
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	36.178	0.00	180.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	36.241	0.00	1.53
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	0.36
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	1.39
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	1.53
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	1.33
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	0.36
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	36.241	0.00	104.40
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	36.287	0.00	1.11
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	0.26
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	1.00
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	1.11
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	0.96
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	0.26
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	36.287	0.00	75.60

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



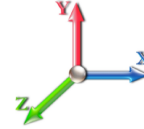
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	36.501	0.00	5.28
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	1.25
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	4.78
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	5.28
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	4.58
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	1.25
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	36.501	0.00	360.00
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	36.712	0.00	5.28
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	1.25
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	4.78
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	5.28
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	4.58
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	1.25
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	36.921	0.00	5.28
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	1.25
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	4.78
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	5.28
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	4.58
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	1.25
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	37.126	0.00	5.28
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	1.25
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	4.78
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	5.28
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	4.58
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	1.25
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	37.329	0.00	5.28
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	1.25
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	4.78
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	5.28
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	4.58
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	1.25
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	37.529	0.00	5.28
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	1.25
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	4.78
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	5.28
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	4.58
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	1.25
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	37.726	0.00	5.28
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	1.25
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	4.78
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	5.28
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	4.58
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	1.25
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	37.921	0.00	5.28
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.921	0.00	1.25
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.921	0.00	4.78
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.921	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



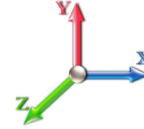
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Load Case: 1.2D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.921	0.00	4.58
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	38.113	0.00	5.28
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	38.113	0.00	1.25
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	38.113	0.00	4.78
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	38.113	0.00	5.28
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	38.113	0.00	4.58
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	38.208	0.00	2.64
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.208	0.00	0.62
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.208	0.00	2.39
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.208	0.00	2.64
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.208	0.00	2.29
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	38.303	0.00	2.64
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.303	0.00	0.62
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.303	0.00	2.39
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.303	0.00	2.64
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.303	0.00	2.29
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	38.490	0.00	5.28
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	38.490	0.00	1.25
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	38.490	0.00	4.78
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	38.490	0.00	5.28
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	38.490	0.00	4.58
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	38.675	0.00	5.28
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	38.675	0.00	1.25
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	38.675	0.00	4.78
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	38.675	0.00	5.28
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	38.675	0.00	4.58
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	38.859	0.00	5.28
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	38.859	0.00	1.25
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	38.859	0.00	4.78
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	38.859	0.00	5.28
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	38.859	0.00	4.58
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	39.040	0.00	5.28
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	39.040	0.00	1.25
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	39.040	0.00	4.78
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	39.040	0.00	5.28
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	39.040	0.00	4.58
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	39.218	0.00	5.28
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	39.218	0.00	1.25
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	39.218	0.00	4.78
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	39.218	0.00	5.28
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	39.218	0.00	4.58
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	39.395	0.00	5.28
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	39.395	0.00	1.25
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	39.395	0.00	4.78
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	39.395	0.00	5.28
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	39.395	0.00	4.58
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	39.570	0.00	5.28

Linear Appurtenance Segment Forces (Factored)

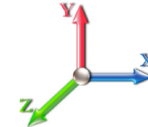
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 125 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	39.570	0.00	1.25
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	39.570	0.00	4.78
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	39.570	0.00	5.28
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	39.570	0.00	4.58
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	39.722	0.00	4.62
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	39.722	0.00	1.09
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	39.722	0.00	4.18
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	39.722	0.00	4.62
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	39.722	0.00	4.01
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	39.743	0.00	0.66
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	39.743	0.00	0.16
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	39.743	0.00	0.60
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	39.743	0.00	0.66
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	39.743	0.00	0.57
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	39.829	0.00	2.64
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	39.829	0.00	0.62
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	39.829	0.00	2.39
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	39.829	0.00	2.64
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	39.829	0.00	2.29
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	39.914	0.00	2.64
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	39.914	0.00	0.62
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	39.914	0.00	2.39
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	39.914	0.00	2.64
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	39.914	0.00	2.29
134.75	1 5/8" Hybrid	Yes	0.75	0.000	2.00	0.13	0.00	0.073	0.000	39.978	0.00	1.98
134.75	7/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	39.978	0.00	0.47
134.75	1.75" Hybrid	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	39.978	0.00	1.79
134.75	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	39.978	0.00	1.98
134.75	1-1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	39.978	0.00	1.72
136.00	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.074	0.000	40.084	0.00	3.30
136.00	7/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	40.084	0.00	0.78
136.00	1.75" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	40.084	0.00	2.99
136.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	40.084	0.00	3.30
136.00	1-1/4" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	40.084	0.00	2.86
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	40.251	0.00	5.28
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	40.251	0.00	1.25
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	40.251	0.00	4.78
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	40.251	0.00	5.28
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	40.251	0.00	4.58
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	40.417	0.00	5.28
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	40.417	0.00	1.25
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	40.417	0.00	4.78
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	40.417	0.00	5.28
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	40.417	0.00	4.58
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	40.581	0.00	5.28
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	40.581	0.00	1.25
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	40.581	0.00	4.78

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 125 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	40.581	0.00	5.28
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	40.581	0.00	4.58
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	40.744	0.00	5.28
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	40.744	0.00	1.25
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	40.744	0.00	4.78
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	40.824	0.00	2.64
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	40.824	0.00	0.62
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	40.824	0.00	2.39
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	40.904	0.00	2.64
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	40.904	0.00	0.62
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	40.904	0.00	2.39
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	41.064	0.00	5.28
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	41.064	0.00	1.25
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	41.064	0.00	4.78
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	41.222	0.00	5.28
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	41.222	0.00	1.25
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	41.222	0.00	4.78
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.378	0.00	5.28
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.378	0.00	1.25
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.378	0.00	4.78
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.533	0.00	5.28
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.533	0.00	1.25
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.686	0.00	5.28
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.686	0.00	1.25
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.838	0.00	5.28
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.838	0.00	1.25
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.989	0.00	5.28
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.989	0.00	1.25
Totals:											0.0	25,774.0

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

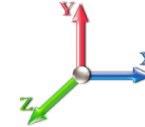


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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 0.90
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00	RB1 RB2	1.00	0.70	26.005	28.61	449.40	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3 RB4	1.00	0.70	26.005	28.61	447.67	0.972 *	0.000	1.00	4.338	4.21	120.6	0.0	184.5
2.00		1.00	0.70	26.005	28.61	445.94	0.973 *	0.000	1.00	4.321	4.20	120.2	0.0	183.8
4.00		1.00	0.70	26.005	28.61	442.48	0.975 *	0.000	2.00	8.592	8.37	239.5	0.0	365.5
6.00		1.00	0.70	26.005	28.61	439.02	0.977 *	0.000	2.00	8.525	8.33	238.2	0.0	362.6
8.00		1.00	0.70	26.005	28.61	435.56	0.980 *	0.000	2.00	8.458	8.28	237.0	0.0	359.8
10.00		1.00	0.70	26.005	28.61	432.09	0.982 *	0.000	2.00	8.391	8.24	235.7	0.0	356.9
12.00		1.00	0.70	26.005	28.61	428.63	0.985 *	0.000	2.00	8.324	8.20	234.4	0.0	354.0
14.00		1.00	0.70	26.005	28.61	425.17	0.987 *	0.000	2.00	8.257	8.15	233.2	0.0	351.1
16.00	Bot - Section 2	1.00	0.70	26.005	28.61	421.71	0.990 *	0.000	2.00	8.190	8.11	231.9	0.0	348.3
16.25	RT1 RB5	1.00	0.70	26.005	28.61	421.28	0.991 *	0.000	0.25	1.035	1.03	29.4	0.0	87.4
18.00		1.00	0.70	26.005	28.61	418.25	0.993 *	0.000	1.75	7.217	7.16	204.9	0.0	609.0
18.63	RB6	1.00	0.70	26.005	28.61	417.16	0.994 *	0.000	0.63	2.586	2.57	73.5	0.0	218.2
18.88	RT3 RT4	1.00	0.70	26.005	28.61	416.73	0.995 *	0.000	0.25	1.024	1.02	29.1	0.0	86.4
20.00		1.00	0.70	26.005	28.61	414.79	0.996 *	0.000	1.12	4.576	4.56	130.3	0.0	386.0
22.00	Top - Section 1	1.00	0.70	26.005	28.61	411.33	0.998 *	0.000	2.00	8.118	8.10	231.8	0.0	684.9
24.00		1.00	0.70	26.005	28.61	414.56	0.995 *	0.000	2.00	8.052	8.01	229.2	0.0	342.3
26.00		1.00	0.70	26.005	28.61	411.09	0.998 *	0.000	2.00	7.985	7.97	228.0	0.0	339.5
28.00		1.00	0.70	26.005	28.61	407.63	1.001 *	0.000	2.00	7.918	7.93	226.7	0.0	336.6
30.00	RB7	1.00	0.70	26.027	28.63	404.34	1.079 *	0.000	2.00	7.851	8.47	242.6	0.0	333.7
31.00	RT5	1.00	0.71	26.272	28.90	404.50	1.082 *	0.000	1.00	3.900	4.22	122.0	0.0	165.8
32.00		1.00	0.71	26.511	29.16	404.59	1.084 *	0.000	1.00	3.883	4.21	122.8	0.0	165.1
33.38	RT6	1.00	0.72	26.833	29.52	404.61	0.950	0.000	1.38	5.332	5.07	149.5	0.0	226.6
34.00		1.00	0.73	26.974	29.67	404.59	0.950	0.000	0.62	2.385	2.27	67.2	0.0	101.4
36.00		1.00	0.74	27.418	30.16	404.35	0.950	0.000	2.00	7.650	7.27	219.2	0.0	325.1
38.00		1.00	0.75	27.845	30.63	403.90	0.950	0.000	2.00	7.583	7.20	220.6	0.0	322.3
40.00	Appurtenance(s)	1.00	0.76	28.256	31.08	403.26	0.950	0.000	2.00	7.516	7.14	221.9	0.0	319.4
42.00		1.00	0.77	28.653	31.52	402.45	0.950	0.000	2.00	7.449	7.08	223.0	0.0	316.5
44.00		1.00	0.78	29.036	31.94	401.48	0.950	0.000	2.00	7.382	7.01	224.0	0.0	313.6
45.16	RB8	1.00	0.79	29.253	32.18	400.84	0.950	0.000	1.16	4.251	4.04	129.9	0.0	180.6
46.00	RT7	1.00	0.79	29.407	32.35	400.35	0.950	0.000	0.84	3.064	2.91	94.2	0.0	130.2
48.00		1.00	0.80	29.767	32.74	399.09	0.950	0.000	2.00	7.248	6.89	225.5	0.0	307.9
50.00	Bot - Section 3	1.00	0.81	30.116	33.13	397.70	0.950	0.000	2.00	7.181	6.82	226.0	0.0	305.0
52.00		1.00	0.82	30.456	33.50	396.19	0.950	0.000	2.00	7.244	6.88	230.5	0.0	609.9
54.00		1.00	0.83	30.786	33.86	394.57	0.950	0.000	2.00	7.177	6.82	230.9	0.0	604.1
56.00	Top - Section 2	1.00	0.84	31.108	34.22	392.84	0.950	0.000	2.00	7.110	6.75	231.1	0.0	598.4
58.00	RT8 RB9	1.00	0.85	31.421	34.56	398.36	0.950	0.000	2.00	7.043	6.69	231.3	0.0	299.1
60.00		1.00	0.85	31.727	34.90	396.47	0.950	0.000	2.00	6.976	6.63	231.3	0.0	296.2
62.00		1.00	0.86	32.025	35.23	394.49	0.950	0.000	2.00	6.909	6.56	231.2	0.0	293.4
64.00		1.00	0.87	32.317	35.55	392.43	0.950	0.000	2.00	6.842	6.50	231.1	0.0	290.5
66.00		1.00	0.88	32.603	35.86	390.28	0.950	0.000	2.00	6.775	6.44	230.8	0.0	287.6
68.00		1.00	0.89	32.882	36.17	388.05	0.950	0.000	2.00	6.708	6.37	230.5	0.0	284.8
70.00		1.00	0.89	33.155	36.47	385.76	0.950	0.000	2.00	6.641	6.31	230.1	0.0	281.9
72.00		1.00	0.90	33.423	36.77	383.39	0.950	0.000	2.00	6.574	6.25	229.6	0.0	279.0
74.00		1.00	0.91	33.686	37.05	380.95	0.950	0.000	2.00	6.507	6.18	229.1	0.0	276.1
76.00		1.00	0.91	33.944	37.34	378.45	0.950	0.000	2.00	6.440	6.12	228.4	0.0	273.3
78.00	RT9 RB10	1.00	0.92	34.197	37.62	375.89	0.950	0.000	2.00	6.373	6.05	227.8	0.0	270.4

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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80.00 Top - Section 3	1.00	0.93	34.445	37.89	373.27	0.950	0.000	2.00	6.306	5.99	227.0	0.0	267.5
82.00	1.00	0.93	34.689	38.16	370.59	0.950	0.000	2.00	6.239	5.93	226.2	0.0	220.9
84.00	1.00	0.94	34.928	38.42	367.85	0.950	0.000	2.00	6.172	5.86	225.3	0.0	218.6
86.00	1.00	0.95	35.164	38.68	365.07	0.950	0.000	2.00	6.106	5.80	224.4	0.0	216.2
88.00	1.00	0.95	35.396	38.94	362.23	0.950	0.000	2.00	6.039	5.74	223.4	0.0	213.8
90.00	1.00	0.96	35.624	39.19	359.34	0.950	0.000	2.00	5.972	5.67	222.3	0.0	211.4
92.00	1.00	0.96	35.848	39.43	356.41	0.950	0.000	2.00	5.905	5.61	221.2	0.0	209.0
94.00	1.00	0.97	36.069	39.68	353.43	0.950	0.000	2.00	5.838	5.55	220.0	0.0	206.6
95.00 Bot - Section 5	1.00	0.97	36.178	39.80	351.92	0.950	0.000	1.00	2.894	2.75	109.4	0.0	102.4
95.58 RT10	1.00	0.98	36.241	39.87	351.04	0.950	0.000	0.58	1.702	1.62	64.5	0.0	119.4
96.00	1.00	0.98	36.287	39.92	350.41	0.950	0.000	0.42	1.229	1.17	46.6	0.0	86.2
98.00	1.00	0.98	36.501	40.15	347.34	0.950	0.000	2.00	5.812	5.52	221.7	0.0	407.5
100.00 Top - Section 4	1.00	0.99	36.712	40.38	344.23	0.950	0.000	2.00	5.745	5.46	220.4	0.0	402.7
102.00	1.00	0.99	36.921	40.61	347.72	0.950	0.000	2.00	5.678	5.39	219.1	0.0	200.9
104.00	1.00	1.00	37.126	40.84	344.55	0.950	0.000	2.00	5.611	5.33	217.7	0.0	198.5
106.00	1.00	1.00	37.329	41.06	341.35	0.950	0.000	2.00	5.544	5.27	216.3	0.0	196.1
108.00	1.00	1.01	37.529	41.28	338.10	0.950	0.000	2.00	5.477	5.20	214.8	0.0	193.7
110.00 Appurtenance(s)	1.00	1.02	37.726	41.50	334.82	0.950	0.000	2.00	5.410	5.14	213.3	0.0	191.3
112.00	1.00	1.02	37.921	41.71	331.50	0.950	0.000	2.00	5.343	5.08	211.7	0.0	188.9
114.00	1.00	1.03	38.113	41.92	328.15	0.950	0.000	2.00	5.276	5.01	210.1	0.0	186.5
115.00 Top - Section 5	1.00	1.03	38.208	42.03	326.46	0.950	0.000	1.00	2.613	2.48	104.3	0.0	92.4
116.00	1.00	1.03	38.303	42.13	324.77	0.950	0.000	1.00	2.596	2.47	103.9	0.0	73.6
118.00	1.00	1.04	38.490	42.34	321.35	0.950	0.000	2.00	5.142	4.89	206.8	0.0	145.7
120.00	1.00	1.04	38.675	42.54	317.90	0.950	0.000	2.00	5.075	4.82	205.1	0.0	143.8
122.00	1.00	1.05	38.859	42.74	314.42	0.950	0.000	2.00	5.008	4.76	203.4	0.0	141.9
124.00	1.00	1.05	39.040	42.94	310.91	0.950	0.000	2.00	4.941	4.69	201.6	0.0	140.0
126.00	1.00	1.06	39.218	43.14	307.37	0.950	0.000	2.00	4.874	4.63	199.8	0.0	138.1
128.00	1.00	1.06	39.395	43.33	303.80	0.950	0.000	2.00	4.807	4.57	197.9	0.0	136.1
130.00	1.00	1.07	39.570	43.53	300.21	0.950	0.000	2.00	4.741	4.50	196.0	0.0	134.2
131.75 Appurtenance(s)	1.00	1.07	39.722	43.69	297.04	0.950	0.000	1.75	4.093	3.89	169.9	0.0	115.9
132.00	1.00	1.07	39.743	43.72	296.58	0.950	0.000	0.25	0.581	0.55	24.1	0.0	16.4
133.00 Appurtenance(s)	1.00	1.07	39.829	43.81	294.76	0.950	0.000	1.00	2.312	2.20	96.2	0.0	65.4
134.00	1.00	1.07	39.914	43.91	292.93	0.950	0.000	1.00	2.295	2.18	95.7	0.0	65.0
134.75 Appurtenance(s)	1.00	1.08	39.978	43.98	291.56	0.950	0.000	0.75	1.710	1.62	71.4	0.0	48.4
136.00	1.00	1.08	40.084	44.09	289.26	0.950	0.000	1.25	2.829	2.69	118.5	0.0	80.1
138.00	1.00	1.08	40.251	44.28	285.55	0.950	0.000	2.00	4.473	4.25	188.1	0.0	126.6
140.00	1.00	1.09	40.417	44.46	281.83	0.950	0.000	2.00	4.406	4.19	186.1	0.0	124.7
142.00 Appurtenance(s)	1.00	1.09	40.581	44.64	278.07	0.950	0.000	2.00	4.339	4.12	184.0	0.0	122.8
144.00	1.00	1.10	40.744	44.82	274.30	0.950	0.000	2.00	4.272	4.06	181.9	0.0	120.8
145.00 Top - Section 6	1.00	1.10	40.824	44.91	272.40	0.950	0.000	1.00	2.111	2.01	90.1	0.0	59.7
146.00	1.00	1.10	40.904	44.99	261.33	0.600	0.000	1.00	2.023	1.21	54.6	0.0	57.8
148.00	1.00	1.11	41.064	45.17	257.64	0.600	0.000	2.00	3.998	2.40	108.3	0.0	114.2
150.00 Top - Section 7	1.00	1.11	41.222	45.34	253.93	0.600	0.000	2.00	3.933	2.36	107.0	0.0	112.3
152.00 Appurtenance(s)	1.00	1.11	41.378	45.52	173.92	0.645*	0.000	2.00	2.667	1.72	78.3	0.0	75.8
154.00	1.00	1.12	41.533	45.69	174.24	0.645*	0.000	2.00	2.667	1.72	78.6	0.0	75.8
156.00	1.00	1.12	41.686	45.85	174.56	0.645*	0.000	2.00	2.667	1.72	78.9	0.0	75.8
158.00	1.00	1.13	41.838	46.02	174.88	0.645*	0.000	2.00	2.667	1.72	79.2	0.0	75.8
160.00 Appurtenance(s)	1.00	1.13	41.989	46.19	175.20	0.645*	0.000	2.00	2.667	1.72	79.4	0.0	75.8
Totals:								160.00			16,630.3		21,407.5

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT02049-S-SBA
Site Name: Beacon Falls
Height: 160.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

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

6/8/2022

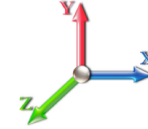
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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 28

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	160.00	B5/B13 RRH-BR04C	3	42.138	46.352	0.67	1.00	3.76	227.88	0.000	2.000	174.22	0.00	348.44
2	160.00	JAHH-65B-R3B	6	42.138	46.352	0.66	0.80	36.29	291.60	0.000	2.000	1682.30	0.00	3364.61
3	160.00	VZS01	3	42.138	46.352	0.69	1.00	8.90	235.17	0.000	2.000	412.58	0.00	825.15
4	160.00	CBC78T-DS-43	1	42.138	46.352	1.00	1.00	0.37	18.63	0.000	2.000	17.15	0.00	34.30
5	160.00	B2/B66A RRH-BR049	3	42.138	46.352	0.67	1.00	3.76	189.00	0.000	2.000	174.22	0.00	348.44
6	160.00	6' Lightning rod	1	42.212	46.433	1.00	1.00	0.38	5.85	0.000	3.000	17.64	0.00	52.93
7	160.00	Commscope	1	42.138	46.352	1.00	1.00	2.51	13.50	0.000	2.000	116.34	0.00	232.69
8	160.00	DB222	1	42.359	46.595	1.00	1.00	2.25	14.40	0.000	5.000	104.84	0.00	524.20
9	160.00	DB846F65ZAXY	6	42.138	46.352	0.74	0.80	31.47	113.40	0.000	2.000	1458.75	0.00	2917.49
10	160.00	Low Profile Platform	1	42.138	46.352	1.00	1.00	22.00	1080.00	0.000	2.000	1019.74	0.00	2039.48
11	152.00	MC-PK8-DSH	1	41.378	45.516	1.00	1.00	37.59	1554.30	0.000	0.000	1710.93	0.00	0.00
12	152.00	MX08FRO665-21	3	41.378	45.516	0.55	0.75	20.80	174.15	0.000	0.000	946.54	0.00	0.00
13	152.00	TA08025-B605	3	41.378	45.516	0.50	0.75	2.95	202.50	0.000	0.000	134.48	0.00	0.00
14	152.00	TA08025-B604	3	41.378	45.516	0.50	0.75	2.95	172.53	0.000	0.000	134.48	0.00	0.00
15	152.00	RDIDC-9181-OF-48	1	41.378	45.516	0.75	0.75	1.51	19.71	0.000	0.000	68.61	0.00	0.00
16	142.00	Platform w/ HR & Bracing	1	40.581	44.639	1.00	1.00	52.00	2021.40	0.000	0.000	2321.24	0.00	0.00
17	142.00	Mod	1	40.581	44.639	1.00	1.00	12.00	270.00	0.000	0.000	535.67	0.00	0.00
18	142.00	4415	1	40.581	44.639	0.54	0.80	1.00	39.69	0.000	0.000	44.50	0.00	0.00
19	142.00	4449 B71 + B85	4	40.581	44.639	0.54	0.80	4.22	263.52	0.000	0.000	188.54	0.00	0.00
20	142.00	KRY 112 144/1	3	40.581	44.639	0.40	0.80	0.49	29.70	0.000	0.000	21.96	0.00	0.00
21	142.00	APXVA18-43-C-A20	1	40.581	44.639	0.61	0.75	5.93	40.86	0.000	0.000	264.92	0.00	0.00
22	142.00	APXVAARR24_43-U-NA2	3	40.581	44.639	0.52	0.75	31.88	345.60	0.000	0.000	1423.01	0.00	0.00
23	142.00	KRD 9011461-B66A-B2A	4	40.581	44.639	0.65	0.75	16.99	475.92	0.000	0.000	758.47	0.00	0.00
24	142.00	AIR 21, 1.3M, B2A B4P	3	40.581	44.639	0.65	0.75	11.78	247.05	0.000	0.000	526.03	0.00	0.00
25	134.75	AIR 6419 B77G	3	39.978	43.976	0.61	0.80	6.93	178.47	0.000	0.000	304.80	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	39.829	43.812	0.57	0.80	19.45	181.80	0.000	0.000	852.07	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	39.829	43.812	0.58	0.80	10.44	86.13	0.000	0.000	457.22	0.00	0.00
28	133.00	4478 B14	3	39.829	43.812	0.54	0.80	2.96	161.73	0.000	0.000	129.63	0.00	0.00
29	133.00	DC9-48-60-24-8C-EV	1	39.829	43.812	0.80	0.80	0.91	23.58	0.000	0.000	39.96	0.00	0.00
30	133.00	Kathrein 800-10965	3	39.829	43.812	0.57	0.80	23.53	293.22	0.000	0.000	1030.99	0.00	0.00
31	133.00	(3) SitePro 1 P/N	2	39.829	43.812	0.56	0.75	24.01	2443.99	0.000	0.000	1051.81	0.00	0.00
32	133.00	Powerwave LGP21401	6	39.829	43.812	0.54	0.80	4.15	76.14	0.000	0.000	181.76	0.00	0.00
33	133.00	Ericsson RRUS-32 RRU	3	39.829	43.812	0.54	0.80	6.22	207.90	0.000	0.000	272.64	0.00	0.00
34	133.00	Ericsson B2/B66A 8843	3	39.829	43.812	0.54	0.80	2.64	194.40	0.000	0.000	115.54	0.00	0.00
35	133.00	Ericsson B5/B12 4449	3	39.829	43.812	0.54	0.80	3.17	191.70	0.000	0.000	138.79	0.00	0.00
36	133.00	Raycap DC6-48-60-18-8F	2	39.829	43.812	0.54	0.80	0.99	57.24	0.000	0.000	43.21	0.00	0.00
37	131.75	AIR 6449 B77D	3	39.722	43.694	0.68	0.80	8.43	237.60	0.000	0.000	368.13	0.00	0.00
38	110.00	3 ft Standoff	1	37.726	41.498	1.00	1.00	2.63	36.00	0.000	0.000	109.14	0.00	0.00
39	110.00	DB222	1	38.236	42.059	1.00	1.00	2.65	14.40	0.000	5.292	111.46	0.00	589.80
40	40.00	GPS	1	28.256	31.082	1.00	1.00	1.00	9.00	0.000	0.000	31.08	0.00	0.00

Totals: 12,439.66

19,495.41

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 28

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		120.56	500.35	0.00	0.00
2.00		120.24	499.63	0.00	0.00
4.00		239.52	997.11	0.00	0.00
6.00		238.25	994.24	0.00	0.00
8.00		236.98	991.37	0.00	0.00
10.00		235.70	988.50	0.00	0.00
12.00		234.43	985.63	0.00	0.00
14.00		233.16	982.76	0.00	0.00
16.00		231.88	979.89	0.00	0.00
16.25		29.35	166.31	0.00	0.00
18.00		204.93	1161.66	0.00	0.00
18.63		73.54	417.12	0.00	0.00
18.88		29.15	165.37	0.00	0.00
20.00		130.33	739.75	0.00	0.00
22.00		231.76	1316.50	0.00	0.00
24.00		229.25	973.96	0.00	0.00
26.00		227.98	971.09	0.00	0.00
28.00		226.70	968.22	0.00	0.00
30.00		242.62	1235.35	0.00	0.00
31.00		121.97	616.60	0.00	0.00
32.00		122.76	615.88	0.00	0.00
33.38		149.50	476.14	0.00	0.00
34.00		67.23	213.47	0.00	0.00
36.00		219.18	686.74	0.00	0.00
38.00		220.65	683.87	0.00	0.00
40.00	(1) attachments	253.01	690.00	0.00	0.00
42.00		223.04	677.85	0.00	0.00
44.00		223.99	674.98	0.00	0.00
45.16		129.95	390.17	0.00	0.00
46.00		94.16	281.94	0.00	0.00
48.00		225.47	669.24	0.00	0.00
50.00		226.00	666.37	0.00	0.00
52.00		230.54	971.21	0.00	0.00
54.00		230.88	965.47	0.00	0.00
56.00		231.12	959.74	0.00	0.00
58.00		231.25	660.44	0.00	0.00
60.00		231.28	657.57	0.00	0.00
62.00		231.22	654.70	0.00	0.00
64.00		231.06	651.83	0.00	0.00
66.00		230.82	648.96	0.00	0.00
68.00		230.50	646.09	0.00	0.00
70.00		230.10	643.22	0.00	0.00
72.00		229.62	640.35	0.00	0.00
74.00		229.07	637.48	0.00	0.00
76.00		228.44	634.61	0.00	0.00
78.00		227.75	631.74	0.00	0.00

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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80.00		227.00	628.87	0.00	0.00
82.00		226.18	582.27	0.00	0.00
84.00		225.30	579.88	0.00	0.00
86.00		224.36	577.49	0.00	0.00
88.00		223.36	575.10	0.00	0.00
90.00		222.30	572.71	0.00	0.00
92.00		221.20	570.32	0.00	0.00
94.00		220.04	567.93	0.00	0.00
95.00		109.40	283.07	0.00	0.00
95.58		64.46	224.14	0.00	0.00
96.00		46.60	162.06	0.00	0.00
98.00		221.68	768.81	0.00	0.00
100.00		220.39	494.03	0.00	0.00
102.00		219.06	292.21	0.00	0.00
104.00		217.68	289.82	0.00	0.00
106.00		216.26	287.43	0.00	0.00
108.00		214.79	285.04	0.00	0.00
110.00	(2) attachments	433.88	333.05	0.00	589.80
112.00		211.73	279.32	0.00	0.00
114.00		210.14	276.93	0.00	0.00
115.00		104.33	137.57	0.00	0.00
116.00		103.92	118.77	0.00	0.00
118.00		206.83	236.10	0.00	0.00
120.00		205.12	234.19	0.00	0.00
122.00		203.37	232.28	0.00	0.00
124.00		201.59	230.36	0.00	0.00
126.00		199.77	228.45	0.00	0.00
128.00		197.91	226.54	0.00	0.00
130.00		196.02	224.63	0.00	0.00
131.75	(3) attachments	538.03	432.58	0.00	0.00
132.00		24.11	27.73	0.00	0.00
133.00	(29) attachments	4409.82	4028.46	0.00	0.00
134.00		95.72	98.17	0.00	0.00
134.75	(3) attachments	376.25	251.79	0.00	0.00
136.00		118.52	121.59	0.00	0.00
138.00		188.13	193.00	0.00	0.00
140.00		186.08	191.08	0.00	0.00
142.00	(21) attachments	6268.34	3922.91	0.00	0.00
144.00		181.88	161.14	0.00	0.00
145.00		90.05	79.85	0.00	0.00
146.00		54.62	77.95	0.00	0.00
148.00		108.35	154.49	0.00	0.00
150.00		107.01	152.63	0.00	0.00
152.00	(11) attachments	3073.34	2239.26	0.00	0.00
154.00		78.58	112.49	0.00	0.00
156.00		78.87	112.49	0.00	0.00
158.00		79.16	112.49	0.00	0.00
160.00	(26) attachments	5257.23	2301.92	0.00	10687.74
Totals:		36,125.66	58,652.87	0.00	11,277.54

Linear Appurtenance Segment Forces (Factored)

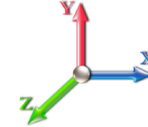
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	26.005	0.00	1.98
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	0.47
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	1.79
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	1.98
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	1.72
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	26.005	0.00	0.47
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	26.005	0.00	108.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	26.005	0.00	162.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	26.005	0.00	1.98
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	0.47
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	1.79
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	1.98
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	1.72
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	26.005	0.00	0.47
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	26.005	0.00	108.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	26.005	0.00	162.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	26.005	0.00	3.96
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	0.94
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	3.58
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	3.96
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	3.43
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	26.005	0.00	0.94
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	26.005	0.00	216.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	26.005	0.00	324.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	26.005	0.00	3.96
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	0.94
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	3.58
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	3.96
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	3.43
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	26.005	0.00	0.94
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	26.005	0.00	216.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	26.005	0.00	324.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	26.005	0.00	3.96
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	0.94
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	3.58
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	3.96
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	3.43
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	26.005	0.00	0.94
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	26.005	0.00	216.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	26.005	0.00	324.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	26.005	0.00	3.96
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	0.94
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	3.58
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	3.96
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	3.43
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	26.005	0.00	0.94
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	26.005	0.00	216.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	26.005	0.00	324.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	26.005	0.00	3.96
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	0.94
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	3.58
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	3.96
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	3.43
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	26.005	0.00	0.94
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	26.005	0.00	216.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	26.005	0.00	324.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	26.005	0.00	3.96
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	0.94
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	3.58
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	3.96
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	3.43
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	26.005	0.00	0.94
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	26.005	0.00	216.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	26.005	0.00	324.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	26.005	0.00	3.96
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	0.94
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	3.58
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	3.96
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	3.43
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	26.005	0.00	0.94
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	26.005	0.00	216.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	26.005	0.00	324.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	26.005	0.00	0.50
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.12
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.45
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.50
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.43
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	26.005	0.00	0.12
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	26.005	0.00	27.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	26.005	0.00	40.50
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	26.005	0.00	3.47
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	0.82
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	3.14
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	3.47
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	3.01
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	26.005	0.00	0.82
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	26.005	0.00	189.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	26.005	0.00	283.50
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	26.005	0.00	1.25
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.29
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	1.13
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	1.25
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	1.08
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.29

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



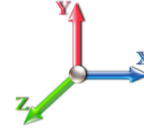
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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	26.005	0.00	68.04
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	26.005	0.00	102.06
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	26.005	0.00	0.50
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.12
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.45
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.50
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.43
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	26.005	0.00	0.12
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	26.005	0.00	27.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	26.005	0.00	40.50
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	26.005	0.00	2.22
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	0.52
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	2.01
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	2.22
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	1.92
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	0.52
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	26.005	0.00	120.96
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	26.005	0.00	181.44
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	26.005	0.00	3.96
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	0.94
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	3.58
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	3.96
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	3.43
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	26.005	0.00	0.94
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	26.005	0.00	216.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	26.005	0.00	324.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	26.005	0.00	3.96
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	0.94
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	3.58
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	3.96
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	3.43
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	26.005	0.00	0.94
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	26.005	0.00	216.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	26.005	0.00	324.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	26.005	0.00	3.96
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	0.94
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	3.58
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	3.96
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	3.43
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	26.005	0.00	0.94
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	26.005	0.00	216.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	26.005	0.00	324.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	26.005	0.00	3.96
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	0.94
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	3.58
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	3.96
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	3.43

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	26.005	0.00	0.94
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	26.005	0.00	216.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	26.005	0.00	324.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	26.027	0.00	3.96
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	0.94
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	3.58
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	3.96
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	3.43
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	26.027	0.00	0.94
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	26.027	0.00	270.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	26.027	0.00	216.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	26.027	0.00	324.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	26.272	0.00	1.98
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	0.47
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	1.79
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	1.98
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	1.72
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	26.272	0.00	0.47
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	26.272	0.00	135.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	26.272	0.00	108.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	26.272	0.00	162.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	26.511	0.00	1.98
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	0.47
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	1.79
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	1.98
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	1.72
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	26.511	0.00	0.47
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	26.511	0.00	135.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	26.511	0.00	108.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	26.511	0.00	162.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	26.833	0.00	2.73
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	0.65
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	2.47
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	2.73
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	2.37
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	26.833	0.00	0.65
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	26.833	0.00	186.30
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	26.974	0.00	1.23
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	0.29
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	1.11
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	1.23
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	1.06
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	26.974	0.00	0.29
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	26.974	0.00	83.70
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	27.418	0.00	3.96
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	0.94
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	3.58

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



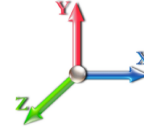
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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	3.96
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	3.43
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.418	0.00	0.94
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	27.418	0.00	270.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	27.845	0.00	3.96
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	0.94
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	3.58
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	3.96
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	3.43
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	27.845	0.00	0.94
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	27.845	0.00	270.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	28.256	0.00	3.96
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	0.94
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	3.58
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	3.96
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	3.43
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	28.256	0.00	0.94
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	28.256	0.00	270.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	28.653	0.00	3.96
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	0.94
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	3.58
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	3.96
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	3.43
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	28.653	0.00	0.94
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	28.653	0.00	270.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	29.036	0.00	3.96
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	0.94
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	3.58
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	3.96
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	3.43
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	29.036	0.00	0.94
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	29.036	0.00	270.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	29.253	0.00	2.30
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	0.54
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	2.08
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	2.30
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	1.99
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	29.253	0.00	0.54
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	29.253	0.00	156.60
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	29.407	0.00	1.66
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	0.39
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	1.51
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	1.66
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	1.44
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	29.407	0.00	0.39
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	29.407	0.00	113.40
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	29.767	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	0.94
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	3.58
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	3.96
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	3.43
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	29.767	0.00	0.94
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	29.767	0.00	270.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	30.116	0.00	3.96
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	0.94
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	3.58
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	3.96
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	3.43
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	30.116	0.00	0.94
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	30.116	0.00	270.00
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	30.456	0.00	3.96
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	0.94
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	3.58
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	3.96
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	3.43
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	30.456	0.00	0.94
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	30.456	0.00	270.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	30.786	0.00	3.96
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	0.94
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	3.58
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	3.96
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	3.43
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	30.786	0.00	0.94
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	30.786	0.00	270.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	31.108	0.00	3.96
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	0.94
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	3.58
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	3.96
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	3.43
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.108	0.00	0.94
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	31.108	0.00	270.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	31.421	0.00	3.96
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	0.94
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	3.58
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	3.96
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	3.43
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	31.421	0.00	0.94
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	31.421	0.00	270.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	31.727	0.00	3.96
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	0.94
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	3.58
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	3.96
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	3.43
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	31.727	0.00	0.94

Linear Appurtenance Segment Forces (Factored)

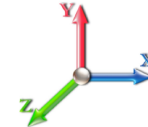
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	31.727	0.00	270.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	32.025	0.00	3.96
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	0.94
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	3.58
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	3.96
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	3.43
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	32.025	0.00	0.94
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	32.025	0.00	270.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	32.317	0.00	3.96
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	0.94
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	3.58
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	3.96
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	3.43
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	32.317	0.00	0.94
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	32.317	0.00	270.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	32.603	0.00	3.96
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	0.94
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	3.58
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	3.96
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	3.43
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	32.603	0.00	0.94
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	32.603	0.00	270.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	32.882	0.00	3.96
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	0.94
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	3.58
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	3.96
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	3.43
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	32.882	0.00	0.94
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	32.882	0.00	270.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	33.155	0.00	3.96
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	0.94
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	3.58
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	3.96
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	3.43
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.155	0.00	0.94
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	33.155	0.00	270.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	33.423	0.00	3.96
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	0.94
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	3.58
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	3.96
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	3.43
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	33.423	0.00	0.94
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	33.423	0.00	270.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	33.686	0.00	3.96
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	0.94
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	3.58
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



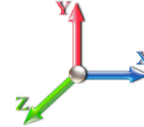
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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	3.43
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	33.686	0.00	0.94
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	33.686	0.00	270.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	33.944	0.00	3.96
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	0.94
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	3.58
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	3.96
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	3.43
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	33.944	0.00	0.94
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	33.944	0.00	270.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	34.197	0.00	3.96
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	0.94
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	3.58
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	3.96
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	3.43
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	34.197	0.00	0.94
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	34.197	0.00	270.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	34.445	0.00	3.96
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	0.94
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	3.58
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	3.96
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	3.43
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	34.445	0.00	0.94
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	34.445	0.00	270.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	34.689	0.00	3.96
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	0.94
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	3.58
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	3.96
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	3.43
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	34.689	0.00	0.94
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	34.689	0.00	270.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	34.928	0.00	3.96
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	0.94
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	3.58
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	3.96
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	3.43
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	34.928	0.00	0.94
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	34.928	0.00	270.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	35.164	0.00	3.96
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	0.94
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	3.58
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	3.96
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	3.43
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	35.164	0.00	0.94
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	35.164	0.00	270.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	35.396	0.00	3.96
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	0.94

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



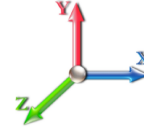
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Load Case: 0.9D + 1.0W 125 mph Wind

Iterations 28

Dead Load Factor 0.90

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	3.58
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	3.96
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	3.43
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	35.396	0.00	0.94
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	35.396	0.00	270.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	35.624	0.00	3.96
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	0.94
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	3.58
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	3.96
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	3.43
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	35.624	0.00	0.94
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	35.624	0.00	270.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	35.848	0.00	3.96
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	0.94
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	3.58
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	3.96
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	3.43
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	35.848	0.00	0.94
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	35.848	0.00	270.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	36.069	0.00	3.96
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	0.94
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	3.58
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	3.96
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	3.43
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	36.069	0.00	0.94
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	36.069	0.00	270.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	36.178	0.00	1.98
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	0.47
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	1.79
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	1.98
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	1.72
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	36.178	0.00	0.47
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	36.178	0.00	135.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	36.241	0.00	1.15
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	0.27
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	1.04
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	1.15
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	1.00
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	36.241	0.00	0.27
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	36.241	0.00	78.30
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	36.287	0.00	0.83
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	0.20
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	0.75
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	0.83
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	0.72
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	36.287	0.00	0.20
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	36.287	0.00	56.70

Linear Appurtenance Segment Forces (Factored)

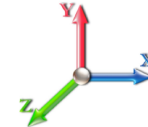
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	36.501	0.00	3.96
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	0.94
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	3.58
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	3.96
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	3.43
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	36.501	0.00	0.94
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	36.501	0.00	270.00
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	36.712	0.00	3.96
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	0.94
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	3.58
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	3.96
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	3.43
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.712	0.00	0.94
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	36.921	0.00	3.96
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	0.94
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	3.58
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	3.96
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	3.43
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	36.921	0.00	0.94
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	37.126	0.00	3.96
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	0.94
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	3.58
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	3.96
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	3.43
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	37.126	0.00	0.94
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	37.329	0.00	3.96
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	0.94
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	3.58
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	3.96
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	3.43
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	37.329	0.00	0.94
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	37.529	0.00	3.96
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	0.94
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	3.58
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	3.96
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	3.43
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	37.529	0.00	0.94
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	37.726	0.00	3.96
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	0.94
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	3.58
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	3.96
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	3.43
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.726	0.00	0.94
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	37.921	0.00	3.96
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.921	0.00	0.94
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.921	0.00	3.58
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.921	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	37.921	0.00	3.43
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	38.113	0.00	3.96
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	38.113	0.00	0.94
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	38.113	0.00	3.58
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	38.113	0.00	3.96
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	38.113	0.00	3.43
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	38.208	0.00	1.98
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.208	0.00	0.47
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.208	0.00	1.79
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.208	0.00	1.98
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.208	0.00	1.72
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	38.303	0.00	1.98
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.303	0.00	0.47
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.303	0.00	1.79
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.303	0.00	1.98
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	38.303	0.00	1.72
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	38.490	0.00	3.96
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	38.490	0.00	0.94
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	38.490	0.00	3.58
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	38.490	0.00	3.96
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	38.490	0.00	3.43
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	38.675	0.00	3.96
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	38.675	0.00	0.94
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	38.675	0.00	3.58
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	38.675	0.00	3.96
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	38.675	0.00	3.43
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	38.859	0.00	3.96
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	38.859	0.00	0.94
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	38.859	0.00	3.58
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	38.859	0.00	3.96
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	38.859	0.00	3.43
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	39.040	0.00	3.96
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	39.040	0.00	0.94
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	39.040	0.00	3.58
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	39.040	0.00	3.96
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	39.040	0.00	3.43
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	39.218	0.00	3.96
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	39.218	0.00	0.94
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	39.218	0.00	3.58
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	39.218	0.00	3.96
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	39.218	0.00	3.43
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	39.395	0.00	3.96
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	39.395	0.00	0.94
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	39.395	0.00	3.58
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	39.395	0.00	3.96
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	39.395	0.00	3.43
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	39.570	0.00	3.96

Linear Appurtenance Segment Forces (Factored)

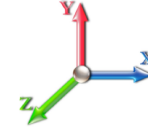
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	39.570	0.00	0.94
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	39.570	0.00	3.58
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	39.570	0.00	3.96
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	39.570	0.00	3.43
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	39.722	0.00	3.47
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	39.722	0.00	0.82
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	39.722	0.00	3.14
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	39.722	0.00	3.47
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	39.722	0.00	3.01
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	39.743	0.00	0.50
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	39.743	0.00	0.12
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	39.743	0.00	0.45
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	39.743	0.00	0.50
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	39.743	0.00	0.43
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	39.829	0.00	1.98
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	39.829	0.00	0.47
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	39.829	0.00	1.79
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	39.829	0.00	1.98
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	39.829	0.00	1.72
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	39.914	0.00	1.98
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	39.914	0.00	0.47
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	39.914	0.00	1.79
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	39.914	0.00	1.98
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	39.914	0.00	1.72
134.75	1 5/8" Hybrid	Yes	0.75	0.000	2.00	0.13	0.00	0.073	0.000	39.978	0.00	1.49
134.75	7/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	39.978	0.00	0.35
134.75	1.75" Hybrid	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	39.978	0.00	1.34
134.75	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	39.978	0.00	1.49
134.75	1-1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	39.978	0.00	1.29
136.00	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.074	0.000	40.084	0.00	2.48
136.00	7/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	40.084	0.00	0.59
136.00	1.75" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	40.084	0.00	2.24
136.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	40.084	0.00	2.48
136.00	1-1/4" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	40.084	0.00	2.15
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	40.251	0.00	3.96
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	40.251	0.00	0.94
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	40.251	0.00	3.58
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	40.251	0.00	3.96
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	40.251	0.00	3.43
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	40.417	0.00	3.96
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	40.417	0.00	0.94
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	40.417	0.00	3.58
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	40.417	0.00	3.96
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	40.417	0.00	3.43
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	40.581	0.00	3.96
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	40.581	0.00	0.94
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	40.581	0.00	3.58

Linear Appurtenance Segment Forces (Factored)

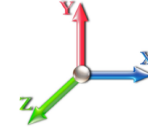
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0W 125 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.00



Iterations 28

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	40.581	0.00	3.96
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	40.581	0.00	3.43
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	40.744	0.00	3.96
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	40.744	0.00	0.94
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	40.744	0.00	3.58
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	40.824	0.00	1.98
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	40.824	0.00	0.47
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	40.824	0.00	1.79
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	40.904	0.00	1.98
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	40.904	0.00	0.47
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	40.904	0.00	1.79
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	41.064	0.00	3.96
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	41.064	0.00	0.94
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	41.064	0.00	3.58
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	41.222	0.00	3.96
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	41.222	0.00	0.94
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	41.222	0.00	3.58
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.378	0.00	3.96
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.378	0.00	0.94
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.378	0.00	3.58
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.533	0.00	3.96
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.533	0.00	0.94
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.686	0.00	3.96
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.686	0.00	0.94
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.838	0.00	3.96
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.838	0.00	0.94
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	41.989	0.00	3.96
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	41.989	0.00	0.94
Totals:											0.0	19,330.5

Calculated Forces

Structure: CT02049-S-SBA **Code:** TIA-222-H 6/8/2022
Site Name: Beacon Falls **Exposure:** B
Height: 160.00 (ft) **Crest Height:** 0.00
Base Elev: 0.000 (ft) **Site Class:** D - Stiff Soil
Gh: 1.1 **Topography:** 1 **Struct Class:** II Page: 49



80.00	-23.03	-28.28	0.00	-1647.1	0.00	1647.17	2384.58	636.50	1911.75	1750.88	26.93	-3.310	0.000	0.529
82.00	-22.42	-28.05	0.00	-1590.6	0.00	1590.61	2370.62	629.65	1870.81	1721.73	28.34	-3.395	0.000	0.579
84.00	-21.80	-27.83	0.00	-1534.5	0.00	1534.51	2356.42	622.80	1830.32	1692.63	29.78	-3.489	0.000	0.566
86.00	-21.20	-27.60	0.00	-1478.8	0.00	1478.85	2341.95	615.94	1790.27	1663.57	31.26	-3.583	0.000	0.552
88.00	-20.59	-27.38	0.00	-1423.6	0.00	1423.65	2327.23	609.09	1750.66	1634.56	32.78	-3.676	0.000	0.538
90.00	-19.99	-27.15	0.00	-1368.8	0.00	1368.89	2312.26	602.24	1711.49	1605.61	34.34	-3.768	0.000	0.524
92.00	-19.40	-26.92	0.00	-1314.6	0.00	1314.60	2297.03	595.39	1672.77	1576.72	35.94	-3.858	0.000	0.510
94.00	-18.81	-26.69	0.00	-1260.7	0.00	1260.75	2281.55	588.54	1634.49	1547.90	37.57	-3.948	0.000	0.496
95.00	-18.52	-26.57	0.00	-1234.0	0.00	1234.07	2273.71	585.11	1615.51	1533.52	38.40	-3.993	0.000	0.489
95.58	-18.29	-26.50	0.00	-1218.6	0.00	1218.66	2269.13	583.12	1604.56	1525.19	38.89	-4.019	0.000	0.478
95.58	-18.29	-26.50	0.00	-1218.6	0.00	1218.66	2269.13	583.12	1604.56	1525.19	38.89	-4.019	0.000	0.478
96.00	-18.10	-26.46	0.00	-1207.5	0.00	1207.53	2265.81	581.68	1596.65	1519.16	39.24	-4.037	0.000	0.805
98.00	-17.28	-26.23	0.00	-1154.6	0.00	1154.60	2249.81	574.83	1559.25	1490.50	40.97	-4.184	0.000	0.784
100.00	-16.74	-26.02	0.00	-1102.1	0.00	1102.14	2259.61	579.02	1582.04	1508.00	42.75	-4.329	0.000	0.740
102.00	-16.40	-25.82	0.00	-1050.1	0.00	1050.10	2243.52	572.17	1544.82	1479.37	44.59	-4.472	0.000	0.719
104.00	-16.07	-25.61	0.00	-998.47	0.00	998.47	2227.17	565.31	1508.04	1450.84	46.49	-4.606	0.000	0.697
106.00	-15.74	-25.41	0.00	-947.24	0.00	947.24	2210.57	558.46	1471.71	1422.40	48.45	-4.737	0.000	0.675
108.00	-15.42	-25.21	0.00	-896.42	0.00	896.42	2193.71	551.61	1435.82	1394.06	50.46	-4.866	0.000	0.652
110.00	-15.07	-24.78	0.00	-845.42	0.00	845.42	2176.60	544.76	1400.37	1365.84	52.52	-4.993	0.000	0.628
112.00	-14.76	-24.58	0.00	-795.86	0.00	795.86	2159.23	537.91	1365.36	1337.73	54.64	-5.117	0.000	0.604
114.00	-14.46	-24.36	0.00	-746.71	0.00	746.71	2141.61	531.05	1330.80	1309.73	56.81	-5.238	0.000	0.579
115.00	-14.31	-24.26	0.00	-722.35	0.00	722.35	2132.70	527.63	1313.68	1295.79	57.91	-5.297	0.000	0.566
115.00	-14.31	-24.26	0.00	-722.35	0.00	722.35	1556.62	422.98	1055.35	949.74	57.91	-5.297	0.000	0.773
116.00	-14.16	-24.17	0.00	-698.08	0.00	698.08	1551.43	420.24	1041.71	940.38	59.02	-5.356	0.000	0.755
118.00	-13.89	-23.98	0.00	-649.74	0.00	649.74	1540.84	414.76	1014.72	921.68	61.29	-5.498	0.000	0.717
120.00	-13.62	-23.78	0.00	-601.78	0.00	601.78	1529.99	409.28	988.07	902.99	63.62	-5.635	0.000	0.679
122.00	-13.35	-23.59	0.00	-554.22	0.00	554.22	1518.89	403.80	961.78	884.33	66.01	-5.767	0.000	0.639
124.00	-13.09	-23.39	0.00	-507.04	0.00	507.04	1507.54	398.32	935.85	865.70	68.45	-5.893	0.000	0.598
126.00	-12.84	-23.20	0.00	-460.26	0.00	460.26	1495.93	392.84	910.27	847.11	70.94	-6.012	0.000	0.555
128.00	-12.59	-23.00	0.00	-413.86	0.00	413.86	1484.06	387.35	885.04	828.56	73.48	-6.125	0.000	0.512
130.00	-12.35	-22.80	0.00	-367.87	0.00	367.87	1471.95	381.87	860.17	810.06	76.06	-6.230	0.000	0.466
131.75	-11.96	-22.23	0.00	-327.96	0.00	327.96	1461.13	377.08	838.70	793.92	78.36	-6.315	0.000	0.425
132.00	-11.93	-22.21	0.00	-322.41	0.00	322.41	1459.57	376.39	835.65	791.62	78.69	-6.327	0.000	0.419
133.00	-8.40	-17.39	0.00	-300.20	0.00	300.20	1453.29	373.65	823.53	782.42	80.02	-6.372	0.000	0.392
134.00	-8.30	-17.29	0.00	-282.81	0.00	282.81	1446.94	370.91	811.49	773.23	81.36	-6.416	0.000	0.374
134.75	-8.08	-16.89	0.00	-269.85	0.00	269.85	1442.14	368.85	802.52	766.35	82.37	-6.448	0.000	0.360
136.00	-7.95	-16.77	0.00	-248.74	0.00	248.74	1434.06	365.43	787.68	754.91	84.06	-6.498	0.000	0.337
138.00	-7.76	-16.57	0.00	-215.21	0.00	215.21	1420.92	359.95	764.23	736.67	86.79	-6.572	0.000	0.300
140.00	-7.58	-16.37	0.00	-182.07	0.00	182.07	1407.52	354.47	741.13	718.50	89.55	-6.639	0.000	0.261
142.00	-4.40	-9.69	0.00	-149.34	0.00	149.34	1393.87	348.98	718.38	700.42	92.34	-6.697	0.000	0.217
144.00	-4.26	-9.49	0.00	-129.96	0.00	129.96	1379.97	343.50	695.99	682.44	95.15	-6.748	0.000	0.194
145.00	-4.18	-9.40	0.00	-120.46	0.00	120.46	1372.92	340.76	684.93	673.48	96.56	-6.772	0.000	0.183
145.00	-4.18	-9.40	0.00	-120.46	0.00	120.46	931.20	332.53	24157.3	604.09	96.56	-6.772	0.000	0.205
146.00	-4.11	-9.34	0.00	-111.07	0.00	111.07	925.24	329.86	23770.3	594.77	97.98	-6.795	0.000	0.192
148.00	-3.96	-9.21	0.00	-92.39	0.00	92.39	913.32	324.51	23005.8	576.36	100.83	-6.838	0.000	0.165
150.00	-3.82	-9.09	0.00	-73.97	0.00	73.97	901.40	319.16	22253.7	558.24	103.70	-6.875	0.000	0.138
150.00	-3.82	-9.09	0.00	-73.97	0.00	73.97	556.65	167.00	10296.1	213.69	103.70	-6.875	0.000	0.356
152.00	-1.96	-5.77	0.00	-55.79	0.00	55.79	556.65	167.00	10296.1	213.69	106.58	-6.906	0.000	0.266
154.00	-1.85	-5.68	0.00	-44.24	0.00	44.24	556.65	167.00	10296.1	213.69	109.48	-6.980	0.000	0.212
156.00	-1.74	-5.59	0.00	-32.88	0.00	32.88	556.65	167.00	10296.1	213.69	112.41	-7.037	0.000	0.158
158.00	-1.64	-5.50	0.00	-21.69	0.00	21.69	556.65	167.00	10296.1	213.69	115.36	-7.077	0.000	0.106
160.00	0.00	-5.26	0.00	-10.69	0.00	10.69	556.65	167.00	10296.1	213.69	118.32	-7.101	0.000	0.051

Wind Loading - Shaft

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B



Height: 160.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

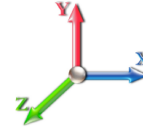
Page: 50

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

Iterations 27

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	RB1 RB2	1.00	0.70	4.161	4.58	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3 RB4	1.00	0.70	4.161	4.58	0.00	1.227 *	0.705	1.00	4.455	5.47	25.0	45.3	291.4
2.00		1.00	0.70	4.161	4.58	0.00	1.229 *	0.756	1.00	4.447	5.46	25.0	48.5	293.6
4.00		1.00	0.70	4.161	4.58	0.00	1.231 *	0.810	2.00	8.862	10.91	49.9	103.2	590.5
6.00		1.00	0.70	4.161	4.58	0.00	1.234 *	0.843	2.00	8.806	10.87	49.7	106.7	590.2
8.00		1.00	0.70	4.161	4.58	0.00	1.237 *	0.868	2.00	8.747	10.82	49.5	109.0	588.7
10.00		1.00	0.70	4.161	4.58	0.00	1.240 *	0.887	2.00	8.687	10.78	49.3	110.7	586.5
12.00		1.00	0.70	4.161	4.58	0.00	1.244 *	0.904	2.00	8.625	10.73	49.1	111.8	583.9
14.00		1.00	0.70	4.161	4.58	0.00	1.247 *	0.918	2.00	8.563	10.68	48.9	112.7	580.9
16.00	Bot - Section 2	1.00	0.70	4.161	4.58	0.00	1.250 *	0.930	2.00	8.500	10.63	48.6	113.3	577.7
16.25	RT1 RB5	1.00	0.70	4.161	4.58	0.00	1.252 *	0.932	0.25	1.074	1.34	6.2	14.4	130.9
18.00		1.00	0.70	4.161	4.58	0.00	1.254 *	0.941	1.75	7.492	9.39	43.0	101.1	913.1
18.63	RB6	1.00	0.70	4.161	4.58	0.00	1.256 *	0.944	0.63	2.685	3.37	15.4	36.4	327.3
18.88	RT3 RT4	1.00	0.70	4.161	4.58	0.00	1.257 *	0.946	0.25	1.064	1.34	6.1	14.5	129.7
20.00		1.00	0.70	4.161	4.58	0.00	1.258 *	0.951	1.12	4.753	5.98	27.4	64.9	579.6
22.00	Top - Section 1	1.00	0.70	4.161	4.58	0.00	1.261 *	0.960	2.00	8.439	10.64	48.7	116.1	1029.2
24.00		1.00	0.70	4.161	4.58	0.00	1.257 *	0.969	2.00	8.374	10.53	48.2	116.2	572.6
26.00		1.00	0.70	4.161	4.58	0.00	1.261 *	0.976	2.00	8.310	10.48	48.0	116.2	568.8
28.00		1.00	0.70	4.161	4.58	0.00	1.264 *	0.984	2.00	8.246	10.43	47.7	116.1	564.9
30.00	RB7	1.00	0.70	4.164	4.58	0.00	1.364 *	0.991	2.00	8.181	11.15	51.1	115.9	560.9
31.00	RT5	1.00	0.71	4.203	4.62	0.00	1.367 *	0.994	1.00	4.066	5.56	25.7	57.9	279.0
32.00		1.00	0.71	4.242	4.67	0.00	1.369 *	0.997	1.00	4.050	5.54	25.9	57.9	278.0
33.38	RT6	1.00	0.72	4.293	4.72	0.00	1.200	1.001	1.38	5.562	6.67	31.5	79.7	381.9
34.00		1.00	0.73	4.316	4.75	0.00	1.200	1.003	0.62	2.489	2.99	14.2	35.8	170.9
36.00		1.00	0.74	4.387	4.83	0.00	1.200	1.009	2.00	7.986	9.58	46.2	115.1	548.6
38.00		1.00	0.75	4.455	4.90	0.00	1.200	1.014	2.00	7.921	9.51	46.6	114.8	544.4
40.00	Appurtenance(s)	1.00	0.76	4.521	4.97	0.00	1.200	1.019	2.00	7.856	9.43	46.9	114.4	540.2
42.00		1.00	0.77	4.584	5.04	0.00	1.200	1.024	2.00	7.790	9.35	47.1	113.9	536.0
44.00		1.00	0.78	4.646	5.11	0.00	1.200	1.029	2.00	7.725	9.27	47.4	113.5	531.7
45.16	RB8	1.00	0.79	4.680	5.15	0.00	1.200	1.032	1.16	4.450	5.34	27.5	65.6	306.4
46.00	RT7	1.00	0.79	4.705	5.18	0.00	1.200	1.034	0.84	3.209	3.85	19.9	47.4	221.0
48.00		1.00	0.80	4.763	5.24	0.00	1.200	1.038	2.00	7.594	9.11	47.7	112.4	523.0
50.00	Bot - Section 3	1.00	0.81	4.819	5.30	0.00	1.200	1.042	2.00	7.529	9.03	47.9	111.9	518.6
52.00		1.00	0.82	4.873	5.36	0.00	1.200	1.047	2.00	7.592	9.11	48.8	113.3	926.5
54.00		1.00	0.83	4.926	5.42	0.00	1.200	1.050	2.00	7.527	9.03	48.9	112.7	918.2
56.00	Top - Section 2	1.00	0.84	4.977	5.47	0.00	1.200	1.054	2.00	7.461	8.95	49.0	112.1	910.0
58.00	RT8 RB9	1.00	0.85	5.027	5.53	0.00	1.200	1.058	2.00	7.395	8.87	49.1	111.5	510.3
60.00		1.00	0.85	5.076	5.58	0.00	1.200	1.062	2.00	7.330	8.80	49.1	110.8	505.8
62.00		1.00	0.86	5.124	5.64	0.00	1.200	1.065	2.00	7.264	8.72	49.1	110.1	501.3
64.00		1.00	0.87	5.171	5.69	0.00	1.200	1.068	2.00	7.198	8.64	49.1	109.4	496.8
66.00		1.00	0.88	5.216	5.74	0.00	1.200	1.072	2.00	7.132	8.56	49.1	108.7	492.2
68.00		1.00	0.89	5.261	5.79	0.00	1.200	1.075	2.00	7.066	8.48	49.1	108.0	487.7
70.00		1.00	0.89	5.305	5.84	0.00	1.200	1.078	2.00	7.000	8.40	49.0	107.3	483.1
72.00		1.00	0.90	5.348	5.88	0.00	1.200	1.081	2.00	6.935	8.32	49.0	106.5	478.6
74.00		1.00	0.91	5.390	5.93	0.00	1.200	1.084	2.00	6.869	8.24	48.9	105.8	474.0
76.00		1.00	0.91	5.431	5.97	0.00	1.200	1.087	2.00	6.803	8.16	48.8	105.0	469.4
78.00	RT9 RB10	1.00	0.92	5.471	6.02	0.00	1.200	1.090	2.00	6.737	8.08	48.7	104.2	464.7

Wind Loading - Shaft

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B

Height: 160.00 (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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80.00 Top - Section 3	1.00	0.93	5.511	6.06	0.00	1.200	1.093	2.00	6.671	8.00	48.5	103.4	460.1
82.00	1.00	0.93	5.550	6.11	0.00	1.200	1.095	2.00	6.605	7.93	48.4	102.6	397.2
84.00	1.00	0.94	5.589	6.15	0.00	1.200	1.098	2.00	6.538	7.85	48.2	101.8	393.2
86.00	1.00	0.95	5.626	6.19	0.00	1.200	1.101	2.00	6.472	7.77	48.1	100.9	389.1
88.00	1.00	0.95	5.663	6.23	0.00	1.200	1.103	2.00	6.406	7.69	47.9	100.1	385.1
90.00	1.00	0.96	5.700	6.27	0.00	1.200	1.106	2.00	6.340	7.61	47.7	99.2	381.1
92.00	1.00	0.96	5.736	6.31	0.00	1.200	1.108	2.00	6.274	7.53	47.5	98.4	377.0
94.00	1.00	0.97	5.771	6.35	0.00	1.200	1.110	2.00	6.208	7.45	47.3	97.5	373.0
95.00 Bot - Section 5	1.00	0.97	5.789	6.37	0.00	1.200	1.112	1.00	3.079	3.69	23.5	48.5	185.1
95.58 RT10	1.00	0.98	5.799	6.38	0.00	1.200	1.112	0.58	1.810	2.17	13.9	28.6	187.7
96.00	1.00	0.98	5.806	6.39	0.00	1.200	1.113	0.42	1.307	1.57	10.0	20.7	135.6
98.00	1.00	0.98	5.840	6.42	0.00	1.200	1.115	2.00	6.183	7.42	47.7	97.5	640.8
100.00 Top - Section 4	1.00	0.99	5.874	6.46	0.00	1.200	1.117	2.00	6.117	7.34	47.4	96.6	633.5
102.00	1.00	0.99	5.907	6.50	0.00	1.200	1.119	2.00	6.051	7.26	47.2	95.7	633.5
104.00	1.00	1.00	5.940	6.53	0.00	1.200	1.122	2.00	5.985	7.18	46.9	94.8	635.4
106.00	1.00	1.00	5.973	6.57	0.00	1.200	1.124	2.00	5.918	7.10	46.7	93.9	635.3
108.00	1.00	1.01	6.005	6.61	0.00	1.200	1.126	2.00	5.852	7.02	46.4	92.9	635.2
110.00 Appurtenance(s)	1.00	1.02	6.036	6.64	0.00	1.200	1.128	2.00	5.786	6.94	46.1	92.0	634.1
112.00	1.00	1.02	6.067	6.67	0.00	1.200	1.130	2.00	5.720	6.86	45.8	91.1	634.0
114.00	1.00	1.03	6.098	6.71	0.00	1.200	1.132	2.00	5.653	6.78	45.5	90.1	633.8
115.00 Top - Section 5	1.00	1.03	6.113	6.72	0.00	1.200	1.133	1.00	2.802	3.36	22.6	44.8	633.0
116.00	1.00	1.03	6.128	6.74	0.00	1.200	1.134	1.00	2.785	3.34	22.5	44.6	632.7
118.00	1.00	1.04	6.158	6.77	0.00	1.200	1.136	2.00	5.521	6.63	44.9	88.2	632.5
120.00	1.00	1.04	6.188	6.81	0.00	1.200	1.138	2.00	5.455	6.55	44.6	87.3	632.0
122.00	1.00	1.05	6.217	6.84	0.00	1.200	1.140	2.00	5.388	6.47	44.2	86.3	631.5
124.00	1.00	1.05	6.246	6.87	0.00	1.200	1.142	2.00	5.322	6.39	43.9	85.3	631.0
126.00	1.00	1.06	6.275	6.90	0.00	1.200	1.143	2.00	5.256	6.31	43.5	84.3	630.4
128.00	1.00	1.06	6.303	6.93	0.00	1.200	1.145	2.00	5.189	6.23	43.2	83.4	629.9
130.00	1.00	1.07	6.331	6.96	0.00	1.200	1.147	2.00	5.123	6.15	42.8	82.4	629.3
131.75 Appurtenance(s)	1.00	1.07	6.355	6.99	0.00	1.200	1.148	1.75	4.428	5.31	37.1	71.3	628.8
132.00	1.00	1.07	6.359	6.99	0.00	1.200	1.149	0.25	0.628	0.75	5.3	10.2	628.1
133.00 Appurtenance(s)	1.00	1.07	6.373	7.01	0.00	1.200	1.150	1.00	2.503	3.00	21.1	40.4	627.7
134.00	1.00	1.07	6.386	7.02	0.00	1.200	1.150	1.00	2.487	2.98	21.0	40.2	627.8
134.75 Appurtenance(s)	1.00	1.08	6.396	7.04	0.00	1.200	1.151	0.75	1.854	2.22	15.7	30.0	627.5
136.00	1.00	1.08	6.413	7.05	0.00	1.200	1.152	1.25	3.069	3.68	26.0	49.6	627.4
138.00	1.00	1.08	6.440	7.08	0.00	1.200	1.154	2.00	4.857	5.83	41.3	78.3	627.1
140.00	1.00	1.09	6.467	7.11	0.00	1.200	1.155	2.00	4.791	5.75	40.9	77.3	626.6
142.00 Appurtenance(s)	1.00	1.09	6.493	7.14	0.00	1.200	1.157	2.00	4.725	5.67	40.5	76.3	626.0
144.00	1.00	1.10	6.519	7.17	0.00	1.200	1.159	2.00	4.658	5.59	40.1	75.3	625.4
145.00 Top - Section 6	1.00	1.10	6.532	7.19	0.00	1.200	1.160	1.00	2.304	2.76	19.9	37.4	625.0
146.00	1.00	1.10	6.545	7.20	0.00	1.200	1.160	1.00	2.217	2.66	19.1	35.9	624.0
148.00	1.00	1.11	6.570	7.23	0.00	1.200	1.162	2.00	4.385	5.26	38.0	70.8	623.1
150.00 Top - Section 7	1.00	1.11	6.595	7.25	0.00	1.200	1.163	2.00	4.321	5.19	37.6	69.8	622.6
152.00 Appurtenance(s)	1.00	1.11	6.620	7.28	0.00	1.290 *	1.165	2.00	3.055	3.94	28.7	48.9	622.9
154.00	1.00	1.12	6.645	7.31	0.00	1.290 *	1.167	2.00	3.056	3.94	28.8	48.9	623.0
156.00	1.00	1.12	6.670	7.34	0.00	1.290 *	1.168	2.00	3.056	3.94	28.9	49.0	623.0
158.00	1.00	1.13	6.694	7.36	0.00	1.290 *	1.170	2.00	3.057	3.94	29.0	49.1	623.1
160.00 Appurtenance(s)	1.00	1.13	6.718	7.39	0.00	1.290 *	1.171	2.00	3.057	3.94	29.1	49.1	623.2
Totals:								160.00			3,648.1	36,322.9	

* Cf Adjusted by Linear Load Ra Effect

Discrete Appurtenance Forces

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B



Height: 160.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

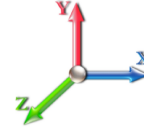
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	160.00	B5/B13 RRH-BR04C	3	6.742	7.416	0.67	1.00	4.51	445.96	0.000	2.000	33.44	0.00	66.88
2	160.00	JAHH-65B-R3B	6	6.742	7.416	0.66	0.80	29.59	1077.31	0.000	2.000	219.42	0.00	438.84
3	160.00	VZS01	3	6.742	7.416	0.69	1.00	11.02	537.95	0.000	2.000	81.70	0.00	163.40
4	160.00	CBC78T-DS-43	1	6.742	7.416	1.00	1.00	0.55	42.43	0.000	2.000	4.05	0.00	8.10
5	160.00	B2/B66A RRH-BR049	3	6.742	7.416	0.67	1.00	4.51	380.13	0.000	2.000	33.44	0.00	66.88
6	160.00	6' Lightning rod	1	6.754	7.429	1.00	1.00	1.11	26.86	0.000	3.000	8.24	0.00	24.73
7	160.00	Commscope	1	6.742	7.416	1.00	1.00	2.23	60.39	0.000	2.000	16.57	0.00	33.15
8	160.00	DB222	1	6.778	7.455	1.00	1.00	6.32	45.80	0.000	5.000	47.10	0.00	235.48
9	160.00	DB846F65ZAXY	6	6.742	7.416	0.74	0.80	35.05	895.51	0.000	2.000	259.91	0.00	519.81
10	160.00	Low Profile Platform	1	6.742	7.416	1.00	1.00	33.85	1542.61	0.000	2.000	251.05	0.00	502.09
11	152.00	MC-PK8-DSH	1	6.620	7.282	1.00	1.00	69.12	2826.11	0.000	0.000	503.37	0.00	0.00
12	152.00	MX08FRO665-21	3	6.620	7.282	0.55	0.75	22.42	613.11	0.000	0.000	163.30	0.00	0.00
13	152.00	TA08025-B605	3	6.620	7.282	0.50	0.75	3.52	336.95	0.000	0.000	25.63	0.00	0.00
14	152.00	TA08025-B604	3	6.620	7.282	0.50	0.75	3.52	295.13	0.000	0.000	25.63	0.00	0.00
15	152.00	RDIDC-9181-OF-48	1	6.620	7.282	0.75	0.75	1.79	49.13	0.000	0.000	13.05	0.00	0.00
16	142.00	Platform w/ HR & Bracing	1	6.493	7.142	1.00	1.00	77.51	3770.31	0.000	0.000	553.61	0.00	0.00
17	142.00	Mod	1	6.493	7.142	1.00	1.00	20.33	727.71	0.000	0.000	145.21	0.00	0.00
18	142.00	4415	1	6.493	7.142	0.54	0.80	1.20	74.17	0.000	0.000	8.57	0.00	0.00
19	142.00	4449 B71 + B85	4	6.493	7.142	0.54	0.80	5.03	270.90	0.000	0.000	35.95	0.00	0.00
20	142.00	KRY 112 144/1	3	6.493	7.142	0.40	0.80	0.87	51.74	0.000	0.000	6.21	0.00	0.00
21	142.00	APXVA18-43-C-A20	1	6.493	7.142	0.63	0.75	6.63	154.54	0.000	0.000	47.36	0.00	0.00
22	142.00	APXVAARR24_43-U-NA2	3	6.493	7.142	0.54	0.75	40.38	1045.57	0.000	0.000	288.38	0.00	0.00
23	142.00	KRD 9011461-B66A-B2A	4	6.493	7.142	0.67	0.75	21.40	1693.93	0.000	0.000	152.87	0.00	0.00
24	142.00	AIR 21, 1.3M, B2A B4P	3	6.493	7.142	0.66	0.75	14.85	851.56	0.000	0.000	106.05	0.00	0.00
25	134.75	AIR 6419 B77G	3	6.396	7.036	0.61	0.80	7.89	360.23	0.000	0.000	55.51	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	6.373	7.010	0.57	0.80	20.73	732.00	0.000	0.000	145.32	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	6.373	7.010	0.58	0.80	11.13	472.15	0.000	0.000	78.00	0.00	0.00
28	133.00	4478 B14	3	6.373	7.010	0.54	0.80	3.52	273.42	0.000	0.000	24.65	0.00	0.00
29	133.00	DC9-48-60-24-8C-EV	1	6.373	7.010	0.80	0.80	1.75	84.15	0.000	0.000	12.25	0.00	0.00
30	133.00	Kathrein 800-10965	3	6.373	7.010	0.57	0.80	25.28	950.47	0.000	0.000	177.22	0.00	0.00
31	133.00	(3) SitePro 1 P/N	2	6.373	7.010	0.56	0.75	43.88	4522.34	0.000	0.000	307.58	0.00	0.00
32	133.00	Powerwave LGP21401	6	6.373	7.010	0.54	0.80	5.92	157.73	0.000	0.000	41.49	0.00	0.00
33	133.00	Ericsson RRUS-32 RRU	3	6.373	7.010	0.54	0.80	6.15	486.09	0.000	0.000	43.09	0.00	0.00
34	133.00	Ericsson B2/B66A 8843	3	6.373	7.010	0.54	0.80	3.16	315.77	0.000	0.000	22.18	0.00	0.00
35	133.00	Ericsson B5/B12 4449	3	6.373	7.010	0.54	0.80	3.75	320.28	0.000	0.000	26.27	0.00	0.00
36	133.00	Raycap DC6-48-60-18-8F	2	6.373	7.010	0.54	0.80	1.30	122.37	0.000	0.000	9.08	0.00	0.00
37	131.75	AIR 6449 B77D	3	6.355	6.991	0.68	0.80	9.55	571.43	0.000	0.000	66.77	0.00	0.00
38	110.00	3 ft Standoff	1	6.036	6.640	1.00	1.00	6.49	76.89	0.000	0.000	43.08	0.00	0.00
39	110.00	DB222	1	6.118	6.729	1.00	1.00	7.26	44.09	0.000	5.292	48.88	0.00	258.67
40	40.00	GPS	1	4.521	4.973	1.00	1.00	1.42	21.13	0.000	0.000	7.04	0.00	0.00

Totals: 27,326.33

4,138.52

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

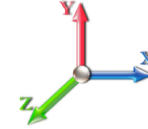


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Dead Load Factor 1.20

Wind Load Factor 1.00



Iterations 27

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
1.00		25.03	731.67	0.00	0.00
2.00		25.01	735.39	0.00	0.00
4.00		49.93	1477.63	0.00	0.00
6.00		49.74	1479.50	0.00	0.00
8.00		49.53	1479.63	0.00	0.00
10.00		49.32	1478.75	0.00	0.00
12.00		49.09	1477.22	0.00	0.00
14.00		48.87	1475.22	0.00	0.00
16.00		48.64	1472.88	0.00	0.00
16.25		6.16	242.78	0.00	0.00
18.00		42.99	1697.07	0.00	0.00
18.63		15.43	609.62	0.00	0.00
18.88		6.12	241.72	0.00	0.00
20.00		27.36	1081.73	0.00	0.00
22.00		48.69	1926.52	0.00	0.00
24.00		48.19	1470.49	0.00	0.00
26.00		47.95	1467.21	0.00	0.00
28.00		47.72	1463.82	0.00	0.00
30.00		51.10	1829.28	0.00	0.00
31.00		25.70	913.29	0.00	0.00
32.00		25.87	912.41	0.00	0.00
33.38		31.52	749.35	0.00	0.00
34.00		14.18	336.08	0.00	0.00
36.00		46.25	1081.67	0.00	0.00
38.00		46.58	1077.83	0.00	0.00
40.00	(1) attachments	53.92	1095.07	0.00	0.00
42.00		47.14	1069.61	0.00	0.00
44.00		47.37	1065.62	0.00	0.00
45.16		27.50	616.24	0.00	0.00
46.00		19.93	445.40	0.00	0.00
48.00		47.74	1057.52	0.00	0.00
50.00		47.89	1053.41	0.00	0.00
52.00		48.84	1461.54	0.00	0.00
54.00		48.94	1453.55	0.00	0.00
56.00		49.02	1445.53	0.00	0.00
58.00		49.08	1046.07	0.00	0.00
60.00		49.11	1041.82	0.00	0.00
62.00		49.13	1037.55	0.00	0.00
64.00		49.13	1033.25	0.00	0.00
66.00		49.11	1028.94	0.00	0.00
68.00		49.07	1024.60	0.00	0.00
70.00		49.02	1020.24	0.00	0.00
72.00		48.95	1015.86	0.00	0.00
74.00		48.87	1011.46	0.00	0.00
76.00		48.77	1007.05	0.00	0.00
78.00		48.65	1002.62	0.00	0.00

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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80.00		48.53	998.17	0.00	0.00
82.00		48.39	935.41	0.00	0.00
84.00		48.23	931.57	0.00	0.00
86.00		48.07	927.72	0.00	0.00
88.00		47.89	923.86	0.00	0.00
90.00		47.70	919.98	0.00	0.00
92.00		47.50	916.09	0.00	0.00
94.00		47.29	912.19	0.00	0.00
95.00		23.53	454.72	0.00	0.00
95.58		13.85	344.13	0.00	0.00
96.00		10.02	248.83	0.00	0.00
98.00		47.67	1180.33	0.00	0.00
100.00		47.43	802.86	0.00	0.00
102.00		47.18	533.00	0.00	0.00
104.00		46.93	529.02	0.00	0.00
106.00		46.66	525.04	0.00	0.00
108.00		46.39	521.04	0.00	0.00
110.00	(2) attachments	138.06	638.02	0.00	258.67
112.00		45.81	506.50	0.00	0.00
114.00		45.51	502.46	0.00	0.00
115.00		22.61	249.82	0.00	0.00
116.00		22.53	224.54	0.00	0.00
118.00		44.88	446.31	0.00	0.00
120.00		44.55	442.89	0.00	0.00
122.00		44.22	439.46	0.00	0.00
124.00		43.88	436.03	0.00	0.00
126.00		43.53	432.59	0.00	0.00
128.00		43.18	429.14	0.00	0.00
130.00		42.81	425.68	0.00	0.00
131.75	(3) attachments	103.92	941.11	0.00	0.00
132.00		5.27	52.64	0.00	0.00
133.00	(29) attachments	908.18	8646.69	0.00	0.00
134.00		20.96	193.07	0.00	0.00
134.75	(3) attachments	71.16	504.48	0.00	0.00
136.00		25.99	239.27	0.00	0.00
138.00		41.29	379.83	0.00	0.00
140.00		40.90	376.34	0.00	0.00
142.00	(21) attachments	1384.72	9013.28	0.00	0.00
144.00		40.08	314.40	0.00	0.00
145.00		19.87	156.00	0.00	0.00
146.00		19.15	152.00	0.00	0.00
148.00		38.03	301.19	0.00	0.00
150.00		37.62	297.74	0.00	0.00
152.00	(11) attachments	759.68	4348.49	0.00	0.00
154.00		28.81	216.38	0.00	0.00
156.00		28.92	216.47	0.00	0.00
158.00		29.03	216.57	0.00	0.00
160.00	(26) attachments	984.05	5271.60	0.00	2059.35
Totals:		7,786.59	100,556.7	0.00	2,318.02
			1		

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B



Height: 160.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

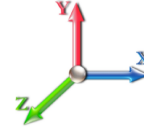
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.28	0.00	0.108	1.023	4.161	0.00	6.11
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	1.94
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	4.21
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	6.11
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	4.53
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	1.94
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.20	0.00	0.108	1.023	4.161	0.00	146.50
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.33	0.00	0.108	1.023	4.161	0.00	219.05
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.29	0.00	0.108	1.024	4.161	0.00	6.36
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	2.08
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	4.37
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	6.36
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	4.72
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	2.08
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.21	0.00	0.108	1.024	4.161	0.00	146.71
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.34	0.00	0.108	1.024	4.161	0.00	219.29
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.60	0.00	0.109	1.026	4.161	0.00	13.26
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	4.45
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	9.10
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	13.26
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	9.85
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	4.45
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.44	0.00	0.109	1.026	4.161	0.00	293.88
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.70	0.00	0.109	1.026	4.161	0.00	439.11
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.61	0.00	0.109	1.028	4.161	0.00	13.60
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	4.65
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	9.32
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	13.60
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	10.12
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	4.65
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.45	0.00	0.109	1.028	4.161	0.00	294.17
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.71	0.00	0.109	1.028	4.161	0.00	439.44
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.62	0.00	0.110	1.031	4.161	0.00	13.86
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	4.79
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	9.49
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	13.86
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	10.32
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	4.79
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.46	0.00	0.110	1.031	4.161	0.00	294.39
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.72	0.00	0.110	1.031	4.161	0.00	439.69
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.63	0.00	0.111	1.034	4.161	0.00	14.06
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	4.91
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	9.63
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	14.06
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	10.48
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	4.91
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.46	0.00	0.111	1.034	4.161	0.00	294.57

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

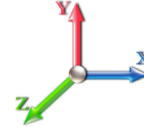


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.73	0.00	0.111	1.034	4.161	0.00	439.88
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.63	0.00	0.112	1.036	4.161	0.00	14.23
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	5.01
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	9.75
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	14.23
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	10.61
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	5.01
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.47	0.00	0.112	1.036	4.161	0.00	294.71
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.73	0.00	0.112	1.036	4.161	0.00	440.05
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.64	0.00	0.113	1.039	4.161	0.00	14.38
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	5.10
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	9.85
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	14.38
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	10.73
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	5.10
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.47	0.00	0.113	1.039	4.161	0.00	294.84
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.74	0.00	0.113	1.039	4.161	0.00	440.19
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.64	0.00	0.114	1.042	4.161	0.00	14.52
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	5.17
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	9.94
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	14.52
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	10.83
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	5.17
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.48	0.00	0.114	1.042	4.161	0.00	294.96
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.74	0.00	0.114	1.042	4.161	0.00	440.32
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.08	0.00	0.114	1.043	4.161	0.00	1.82
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	0.65
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.24
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.82
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.36
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	0.65
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.06	0.00	0.114	1.043	4.161	0.00	36.87
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.09	0.00	0.114	1.043	4.161	0.00	55.04
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.57	0.00	0.115	1.045	4.161	0.00	12.81
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	4.59
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	8.76
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	12.81
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	9.56
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	4.59
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.42	0.00	0.115	1.045	4.161	0.00	258.18
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.65	0.00	0.115	1.045	4.161	0.00	385.38
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.20	0.00	0.116	1.047	4.161	0.00	4.62
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.66
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	3.16
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	4.62
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	3.45
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.66

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



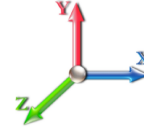
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.15	0.00	0.116	1.047	4.161	0.00	92.95
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.24	0.00	0.116	1.047	4.161	0.00	138.75
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.08	0.00	0.116	1.047	4.161	0.00	1.84
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	0.66
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.26
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.84
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.37
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	0.66
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.06	0.00	0.116	1.047	4.161	0.00	36.89
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.09	0.00	0.116	1.047	4.161	0.00	55.06
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.36	0.00	0.116	1.048	4.161	0.00	8.26
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	2.97
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.65
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	8.26
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	6.17
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	2.97
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.27	0.00	0.116	1.048	4.161	0.00	165.28
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.42	0.00	0.116	1.048	4.161	0.00	246.70
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.65	0.00	0.117	1.050	4.161	0.00	14.84
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	5.36
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	10.16
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	14.84
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	11.09
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	5.36
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.117	1.050	4.161	0.00	295.24
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.75	0.00	0.117	1.050	4.161	0.00	440.64
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.116	1.048	4.161	0.00	14.94
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.42
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	10.22
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	14.94
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	11.16
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.42
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.116	1.048	4.161	0.00	295.31
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.116	1.048	4.161	0.00	440.73
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.117	1.051	4.161	0.00	15.02
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	5.47
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	10.28
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	15.02
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	11.23
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	5.47
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.117	1.051	4.161	0.00	295.39
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.117	1.051	4.161	0.00	440.81
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.118	1.054	4.161	0.00	15.10
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	5.52
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	10.33
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	15.10
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	11.29

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



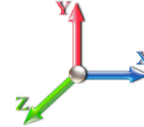
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	5.52
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.118	1.054	4.161	0.00	295.46
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.118	1.054	4.161	0.00	440.89
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.145	1.136	4.164	0.00	15.18
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	5.56
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	10.38
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	15.18
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	11.35
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	5.56
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.54	0.00	0.145	1.136	4.164	0.00	368.96
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.50	0.00	0.145	1.136	4.164	0.00	295.52
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.145	1.136	4.164	0.00	440.96
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.33	0.00	0.146	1.139	4.203	0.00	7.61
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	2.79
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	5.20
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	7.61
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	5.69
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.203	0.00	2.79
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.27	0.00	0.146	1.139	4.203	0.00	184.50
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.25	0.00	0.146	1.139	4.203	0.00	147.78
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.38	0.00	0.146	1.139	4.203	0.00	220.50
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.33	0.00	0.147	1.141	4.242	0.00	7.62
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	2.80
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	5.22
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	7.62
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	5.70
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	2.80
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.27	0.00	0.147	1.141	4.242	0.00	184.51
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.25	0.00	0.147	1.141	4.242	0.00	147.79
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.38	0.00	0.147	1.141	4.242	0.00	220.51
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.46	0.00	0.070	0.000	4.293	0.00	10.55
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	3.89
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	7.22
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	10.55
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	7.90
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	3.89
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.37	0.00	0.070	0.000	4.293	0.00	254.66
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.21	0.00	0.070	0.000	4.316	0.00	4.75
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	1.75
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	3.25
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	4.75
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	3.55
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	1.75
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.17	0.00	0.070	0.000	4.316	0.00	114.42
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.071	0.000	4.387	0.00	15.38
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	5.68
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	10.52

Linear Appurtenance Segment Forces (Factored)

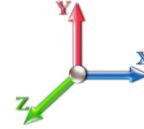
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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

Iterations 27

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	15.38
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	11.51
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	5.68
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.54	0.00	0.071	0.000	4.387	0.00	369.15
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.071	0.000	4.455	0.00	15.44
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	5.72
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	10.56
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	15.44
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	11.56
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	5.72
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.071	0.000	4.455	0.00	369.21
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.072	0.000	4.521	0.00	15.50
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	5.75
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	10.60
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	15.50
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	11.60
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	5.75
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.072	0.000	4.521	0.00	369.27
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.073	0.000	4.584	0.00	15.55
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	5.79
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	10.64
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	15.55
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	11.65
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.584	0.00	5.79
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.073	0.000	4.584	0.00	369.32
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.073	0.000	4.646	0.00	15.61
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	5.82
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	10.68
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	15.61
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	11.69
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	5.82
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.073	0.000	4.646	0.00	369.37
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.39	0.00	0.074	0.000	4.680	0.00	9.07
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	3.39
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	6.21
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	9.07
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	6.79
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.680	0.00	3.39
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.32	0.00	0.074	0.000	4.680	0.00	214.25
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.28	0.00	0.074	0.000	4.705	0.00	6.58
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	2.46
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	4.50
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	6.58
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	4.93
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	2.46
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.23	0.00	0.074	0.000	4.705	0.00	155.16
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.075	0.000	4.763	0.00	15.71

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

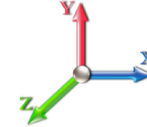


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	5.88
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	10.75
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	15.71
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	11.77
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	5.88
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.075	0.000	4.763	0.00	369.47
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.075	0.000	4.819	0.00	15.76
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	5.91
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	10.78
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	15.76
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	11.81
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	5.91
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.075	0.000	4.819	0.00	369.52
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.076	0.000	4.873	0.00	15.80
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	5.94
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	10.81
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	15.80
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	11.85
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	5.94
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.076	0.000	4.873	0.00	369.56
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.077	0.000	4.926	0.00	15.85
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	5.96
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	10.85
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	15.85
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	11.88
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	5.96
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.077	0.000	4.926	0.00	369.61
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.078	0.000	4.977	0.00	15.89
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	5.99
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	10.88
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	15.89
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	11.92
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	5.99
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	4.977	0.00	369.65
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.077	0.000	5.027	0.00	15.93
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	6.02
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	10.90
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	15.93
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	11.95
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	6.02
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.077	0.000	5.027	0.00	369.69
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.078	0.000	5.076	0.00	15.97
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	6.04
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	10.93
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	15.97
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	11.98
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	6.04

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	5.076	0.00	369.73
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.078	0.000	5.124	0.00	16.01
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	6.06
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	10.96
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	16.01
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	12.01
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	6.06
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	5.124	0.00	369.77
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.079	0.000	5.171	0.00	16.05
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	6.09
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	10.99
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	16.05
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	12.05
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	6.09
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.079	0.000	5.171	0.00	369.80
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.080	0.000	5.216	0.00	16.09
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	6.11
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	11.01
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	16.09
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	12.08
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.216	0.00	6.11
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.080	0.000	5.216	0.00	369.84
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.081	0.000	5.261	0.00	16.13
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	6.13
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	11.04
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	16.13
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	12.10
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	6.13
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.081	0.000	5.261	0.00	369.88
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.082	0.000	5.305	0.00	16.16
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	6.16
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	11.06
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	16.16
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	12.13
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	6.16
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.082	0.000	5.305	0.00	369.91
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.082	0.000	5.348	0.00	16.20
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	6.18
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	11.09
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	16.20
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	12.16
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	6.18
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.082	0.000	5.348	0.00	369.95
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.083	0.000	5.390	0.00	16.23
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	6.20
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	11.11
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	16.23

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

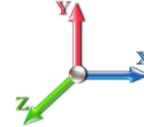


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	12.19
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	6.20
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.083	0.000	5.390	0.00	369.98
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.084	0.000	5.431	0.00	16.27
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	6.22
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	11.14
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	16.27
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	12.22
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	6.22
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.084	0.000	5.431	0.00	370.01
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.085	0.000	5.471	0.00	16.30
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	6.24
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	11.16
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	16.30
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	12.24
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.471	0.00	6.24
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.085	0.000	5.471	0.00	370.04
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.086	0.000	5.511	0.00	16.33
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	6.26
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	11.18
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	16.33
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	12.27
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	6.26
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.086	0.000	5.511	0.00	370.07
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.087	0.000	5.550	0.00	16.36
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	6.28
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	11.20
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	16.36
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	12.29
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	6.28
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.087	0.000	5.550	0.00	370.10
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.088	0.000	5.589	0.00	16.39
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	6.29
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	11.22
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	16.39
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	12.32
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	6.29
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.088	0.000	5.589	0.00	370.13
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.089	0.000	5.626	0.00	16.42
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	6.31
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	11.24
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	16.42
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	12.34
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	6.31
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.089	0.000	5.626	0.00	370.16
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.090	0.000	5.663	0.00	16.45
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	6.33

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



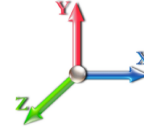
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	11.27
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	16.45
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	12.36
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	6.33
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.090	0.000	5.663	0.00	370.19
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.091	0.000	5.700	0.00	16.48
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	6.35
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	11.29
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	16.48
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	12.39
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	6.35
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.091	0.000	5.700	0.00	370.22
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.092	0.000	5.736	0.00	16.51
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	6.37
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	11.31
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	16.51
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	12.41
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	6.37
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.092	0.000	5.736	0.00	370.25
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.093	0.000	5.771	0.00	16.54
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	6.38
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	11.32
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	16.54
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	12.43
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	6.38
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.093	0.000	5.771	0.00	370.27
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.35	0.00	0.094	0.000	5.789	0.00	8.28
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	3.20
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	5.67
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	8.28
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	6.22
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	3.20
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.29	0.00	0.094	0.000	5.789	0.00	185.14
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.20	0.00	0.094	0.000	5.799	0.00	4.80
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	1.86
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	3.29
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	4.80
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	3.61
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	1.86
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.17	0.00	0.094	0.000	5.799	0.00	107.38
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.15	0.00	0.094	0.000	5.806	0.00	3.48
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	1.34
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	2.38
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	3.48
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	2.62
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	1.34
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.12	0.00	0.094	0.000	5.806	0.00	77.76

Linear Appurtenance Segment Forces (Factored)

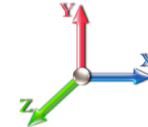
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.095	0.000	5.840	0.00	16.59
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	6.42
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	11.36
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	16.59
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	12.47
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	6.42
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.095	0.000	5.840	0.00	370.32
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.874	0.00	16.62
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	6.43
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	11.38
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	16.62
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	12.50
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	6.43
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.907	0.00	16.64
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	6.45
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	11.40
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	16.64
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	12.52
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	6.45
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.940	0.00	16.67
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	6.46
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	11.42
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	16.67
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	12.54
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	6.46
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.060	0.000	5.973	0.00	16.69
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	6.48
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	11.43
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	16.69
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	12.56
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	6.48
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.061	0.000	6.005	0.00	16.72
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	6.49
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	11.45
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	16.72
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	12.58
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	6.49
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.062	0.000	6.036	0.00	16.74
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	6.51
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	11.47
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	16.74
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	12.60
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	6.51
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.062	0.000	6.067	0.00	16.77
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	6.52
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	11.49
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	16.77

Linear Appurtenance Segment Forces (Factored)

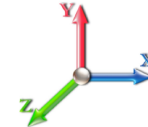
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	12.62
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.063	0.000	6.098	0.00	16.79
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	6.54
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	11.50
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	16.79
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	12.63
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.064	0.000	6.113	0.00	8.40
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	3.27
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	5.76
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	8.40
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	6.32
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.064	0.000	6.128	0.00	8.41
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.128	0.00	3.28
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.128	0.00	5.76
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.128	0.00	8.41
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.128	0.00	6.33
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.065	0.000	6.158	0.00	16.84
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.158	0.00	6.57
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.158	0.00	11.53
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.158	0.00	16.84
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.158	0.00	12.67
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.066	0.000	6.188	0.00	16.86
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	6.58
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	11.55
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	16.86
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	12.69
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.067	0.000	6.217	0.00	16.88
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	6.60
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	11.57
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	16.88
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	12.71
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.067	0.000	6.246	0.00	16.90
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	6.61
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	11.58
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	16.90
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	12.72
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.068	0.000	6.275	0.00	16.92
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	6.62
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	11.60
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	16.92
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	12.74
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.069	0.000	6.303	0.00	16.95
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	6.64
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	11.61
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	16.95
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	12.76
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.070	0.000	6.331	0.00	16.97

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

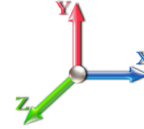


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

Dead Load Factor 1.20
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	6.65
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	11.63
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	16.97
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	12.78
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.63	0.00	0.071	0.000	6.355	0.00	14.86
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.355	0.00	5.83
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.355	0.00	10.18
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.355	0.00	14.86
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.355	0.00	11.19
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.09	0.00	0.072	0.000	6.359	0.00	2.12
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	0.83
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	1.46
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	2.12
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	1.60
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.072	0.000	6.373	0.00	8.50
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	3.33
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	5.82
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	8.50
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	6.40
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.073	0.000	6.386	0.00	8.50
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	3.34
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	5.83
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	8.50
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	6.40
134.75	1 5/8" Hybrid	Yes	0.75	0.000	2.00	0.27	0.00	0.073	0.000	6.396	0.00	6.38
134.75	7/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	6.396	0.00	2.50
134.75	1.75" Hybrid	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	6.396	0.00	4.37
134.75	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	6.396	0.00	6.38
134.75	1-1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	6.396	0.00	4.81
136.00	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.45	0.00	0.074	0.000	6.413	0.00	10.64
136.00	7/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	6.413	0.00	4.18
136.00	1.75" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	6.413	0.00	7.29
136.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	6.413	0.00	10.64
136.00	1-1/4" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	6.413	0.00	8.02
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.075	0.000	6.440	0.00	17.05
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	6.70
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	11.68
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	17.05
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	12.84
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.076	0.000	6.467	0.00	17.07
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	6.71
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	11.70
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	17.07
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	12.86
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.077	0.000	6.493	0.00	17.09
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	6.72
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	11.71

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	17.09
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	12.87
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.078	0.000	6.519	0.00	17.11
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.519	0.00	6.74
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.519	0.00	11.72
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.079	0.000	6.532	0.00	8.56
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	6.532	0.00	3.37
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	6.532	0.00	5.87
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.082	0.000	6.545	0.00	8.56
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	6.545	0.00	3.37
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	6.545	0.00	5.87
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.083	0.000	6.570	0.00	17.14
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.570	0.00	6.76
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.570	0.00	11.75
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.085	0.000	6.595	0.00	17.16
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	6.595	0.00	6.77
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	6.595	0.00	11.76
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.620	0.00	17.18
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.620	0.00	6.78
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.620	0.00	11.78
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.645	0.00	17.20
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.645	0.00	6.79
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.670	0.00	17.22
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.670	0.00	6.80
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.694	0.00	17.23
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.694	0.00	6.82
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.718	0.00	17.25
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.718	0.00	6.83
Totals:											0.0	29,607.2

Calculated Forces

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B



Height: 160.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

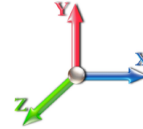
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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 27

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	-100.5	-7.79	0.00	-962.61	0.00	962.61	3683.82	1059.58	4414.92	3756.66	0.00	0.000	0.000	0.168
1.00	-99.82	-7.78	0.00	-954.81	0.00	954.81	3677.71	1055.47	4380.73	3735.77	0.00	-0.008	0.000	0.167
2.00	-99.09	-7.78	0.00	-947.03	0.00	947.03	3671.54	1051.36	4346.67	3714.86	0.00	-0.017	0.000	0.167
4.00	-97.61	-7.76	0.00	-931.47	0.00	931.47	3659.00	1043.14	4278.95	3673.00	0.01	-0.034	0.000	0.165
6.00	-96.12	-7.74	0.00	-915.96	0.00	915.96	3646.20	1034.91	4211.76	3631.09	0.03	-0.051	0.000	0.164
8.00	-94.64	-7.71	0.00	-900.49	0.00	900.49	3633.16	1026.69	4145.10	3589.13	0.06	-0.067	0.000	0.162
10.00	-93.16	-7.69	0.00	-885.06	0.00	885.06	3619.85	1018.47	4078.97	3547.13	0.09	-0.084	0.000	0.160
12.00	-91.68	-7.66	0.00	-869.68	0.00	869.68	3606.29	1010.25	4013.38	3505.10	0.13	-0.102	0.000	0.159
14.00	-90.20	-7.64	0.00	-854.35	0.00	854.35	3592.48	1002.02	3948.31	3463.03	0.17	-0.119	0.000	0.157
16.00	-88.73	-7.60	0.00	-839.08	0.00	839.08	3578.41	993.80	3883.78	3420.94	0.23	-0.136	0.000	0.156
16.25	-88.49	-7.61	0.00	-837.17	0.00	837.17	3576.63	992.77	3875.75	3415.68	0.23	-0.138	0.000	0.178
18.00	-86.79	-7.58	0.00	-823.85	0.00	823.85	3564.09	985.58	3819.78	3378.83	0.29	-0.155	0.000	0.177
18.63	-86.18	-7.57	0.00	-819.08	0.00	819.08	3559.52	982.99	3799.73	3365.57	0.31	-0.162	0.000	0.144
18.88	-85.94	-7.57	0.00	-817.19	0.00	817.19	3557.70	981.96	3791.79	3360.30	0.32	-0.164	0.000	0.165
20.00	-84.85	-7.56	0.00	-808.70	0.00	808.70	3549.51	977.36	3756.31	3336.71	0.36	-0.174	0.000	0.164
22.00	-82.92	-7.54	0.00	-793.58	0.00	793.58	3563.12	985.03	3815.51	3376.01	0.43	-0.192	0.000	0.166
24.00	-81.45	-7.51	0.00	-778.50	0.00	778.50	3548.52	976.81	3752.08	3333.89	0.52	-0.211	0.000	0.159
26.00	-79.98	-7.48	0.00	-763.49	0.00	763.49	3533.67	968.58	3689.18	3291.77	0.61	-0.229	0.000	0.157
28.00	-78.52	-7.45	0.00	-748.53	0.00	748.53	3518.56	960.36	3626.81	3249.64	0.71	-0.247	0.000	0.156
30.00	-76.68	-7.41	0.00	-733.62	0.00	733.62	3503.20	952.14	3564.97	3207.53	0.82	-0.265	0.000	0.121
31.00	-75.77	-7.39	0.00	-726.22	0.00	726.22	3495.43	948.03	3534.25	3186.48	0.88	-0.272	0.000	0.140
32.00	-74.86	-7.37	0.00	-718.83	0.00	718.83	3487.59	943.92	3503.66	3165.43	0.93	-0.280	0.000	0.139
33.38	-74.11	-7.35	0.00	-708.65	0.00	708.65	3476.66	938.24	3461.67	3136.39	1.02	-0.292	0.000	0.171
34.00	-73.77	-7.35	0.00	-704.10	0.00	704.10	3471.72	935.70	3442.89	3123.35	1.05	-0.298	0.000	0.171
36.00	-72.68	-7.32	0.00	-689.40	0.00	689.40	3455.59	927.47	3382.65	3081.29	1.18	-0.319	0.000	0.169
38.00	-71.60	-7.30	0.00	-674.75	0.00	674.75	3439.21	919.25	3322.94	3039.26	1.32	-0.340	0.000	0.167
40.00	-70.51	-7.26	0.00	-660.16	0.00	660.16	3422.57	911.03	3263.76	2997.28	1.47	-0.360	0.000	0.165
42.00	-69.44	-7.23	0.00	-645.64	0.00	645.64	3405.68	902.81	3205.11	2955.34	1.62	-0.381	0.000	0.163
44.00	-68.37	-7.20	0.00	-631.17	0.00	631.17	3388.54	894.58	3146.99	2913.44	1.79	-0.402	0.000	0.162
45.16	-67.75	-7.18	0.00	-622.82	0.00	622.82	3378.48	889.81	3113.53	2889.17	1.89	-0.414	0.000	0.117
46.00	-67.30	-7.17	0.00	-616.79	0.00	616.79	3371.14	886.36	3089.41	2871.61	1.96	-0.421	0.000	0.151
48.00	-66.24	-7.14	0.00	-602.46	0.00	602.46	3353.48	878.14	3032.36	2829.83	2.14	-0.440	0.000	0.150
50.00	-65.19	-7.10	0.00	-588.18	0.00	588.18	3335.57	869.92	2975.84	2788.13	2.33	-0.460	0.000	0.148
52.00	-63.73	-7.06	0.00	-573.98	0.00	573.98	3317.41	861.69	2919.85	2746.50	2.53	-0.480	0.000	0.144
54.00	-62.27	-7.02	0.00	-559.85	0.00	559.85	3298.98	853.47	2864.39	2704.94	2.73	-0.500	0.000	0.142
56.00	-60.82	-6.98	0.00	-545.80	0.00	545.80	3316.18	861.14	2916.12	2743.71	2.95	-0.519	0.000	0.143
58.00	-59.77	-6.94	0.00	-531.84	0.00	531.84	3297.74	852.92	2860.70	2702.16	3.17	-0.539	0.000	0.148
60.00	-58.73	-6.91	0.00	-517.95	0.00	517.95	3279.05	844.70	2805.81	2660.71	3.40	-0.559	0.000	0.146
62.00	-57.69	-6.87	0.00	-504.14	0.00	504.14	3260.10	836.48	2751.45	2619.34	3.64	-0.580	0.000	0.144
64.00	-56.66	-6.83	0.00	-490.40	0.00	490.40	3240.90	828.25	2697.62	2578.08	3.88	-0.600	0.000	0.142
66.00	-55.63	-6.79	0.00	-476.74	0.00	476.74	3221.44	820.03	2644.33	2536.92	4.14	-0.620	0.000	0.140
68.00	-54.60	-6.75	0.00	-463.17	0.00	463.17	3201.73	811.81	2591.56	2495.87	4.40	-0.641	0.000	0.137
70.00	-53.58	-6.71	0.00	-449.68	0.00	449.68	3181.76	803.59	2539.33	2454.94	4.68	-0.661	0.000	0.135
72.00	-52.56	-6.66	0.00	-436.27	0.00	436.27	3161.54	795.36	2487.63	2414.13	4.96	-0.681	0.000	0.133
74.00	-51.55	-6.62	0.00	-422.94	0.00	422.94	3141.06	787.14	2436.47	2373.45	5.25	-0.701	0.000	0.131
76.00	-50.54	-6.58	0.00	-409.70	0.00	409.70	3120.33	778.92	2385.83	2332.91	5.55	-0.721	0.000	0.128
78.00	-49.53	-6.53	0.00	-396.55	0.00	396.55	3099.34	770.70	2335.73	2292.51	5.85	-0.741	0.000	0.126
80.00	-48.53	-6.49	0.00	-383.48	0.00	383.48	3078.09	762.47	2286.15	2252.26	6.17	-0.761	0.000	0.123

Calculated Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 69



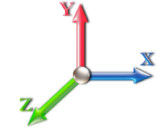
80.00	-48.53	-6.49	0.00	-383.48	0.00	383.48	2384.58	636.50	1911.75	1750.88	6.17	-0.761	0.000	0.133
82.00	-47.60	-6.44	0.00	-370.51	0.00	370.51	2370.62	629.65	1870.81	1721.73	6.49	-0.781	0.000	0.146
84.00	-46.66	-6.40	0.00	-357.62	0.00	357.62	2356.42	622.80	1830.32	1692.63	6.82	-0.803	0.000	0.143
86.00	-45.73	-6.36	0.00	-344.82	0.00	344.82	2341.95	615.94	1790.27	1663.57	7.16	-0.825	0.000	0.139
88.00	-44.81	-6.31	0.00	-332.11	0.00	332.11	2327.23	609.09	1750.66	1634.56	7.51	-0.846	0.000	0.136
90.00	-43.89	-6.27	0.00	-319.49	0.00	319.49	2312.26	602.24	1711.49	1605.61	7.87	-0.868	0.000	0.133
92.00	-42.97	-6.22	0.00	-306.95	0.00	306.95	2297.03	595.39	1672.77	1576.72	8.24	-0.889	0.000	0.129
94.00	-42.06	-6.17	0.00	-294.51	0.00	294.51	2281.55	588.54	1634.49	1547.90	8.62	-0.910	0.000	0.126
95.00	-41.60	-6.15	0.00	-288.34	0.00	288.34	2273.71	585.11	1615.51	1533.52	8.81	-0.921	0.000	0.124
95.58	-41.26	-6.13	0.00	-284.77	0.00	284.77	2269.13	583.12	1604.56	1525.19	8.92	-0.927	0.000	0.121
95.58	-41.26	-6.13	0.00	-284.77	0.00	284.77	2269.13	583.12	1604.56	1525.19	8.92	-0.927	0.000	0.121
96.00	-41.01	-6.13	0.00	-282.20	0.00	282.20	2265.81	581.68	1596.65	1519.16	9.00	-0.931	0.000	0.204
98.00	-39.82	-6.09	0.00	-269.94	0.00	269.94	2249.81	574.83	1559.25	1490.50	9.40	-0.965	0.000	0.199
100.00	-39.02	-6.05	0.00	-257.77	0.00	257.77	2259.61	579.02	1582.04	1508.00	9.81	-0.999	0.000	0.188
102.00	-38.48	-6.01	0.00	-245.67	0.00	245.67	2243.52	572.17	1544.82	1479.37	10.24	-1.033	0.000	0.183
104.00	-37.95	-5.98	0.00	-233.64	0.00	233.64	2227.17	565.31	1508.04	1450.84	10.68	-1.064	0.000	0.178
106.00	-37.42	-5.94	0.00	-221.68	0.00	221.68	2210.57	558.46	1471.71	1422.40	11.13	-1.095	0.000	0.173
108.00	-36.90	-5.90	0.00	-209.80	0.00	209.80	2193.71	551.61	1435.82	1394.06	11.60	-1.125	0.000	0.167
110.00	-36.26	-5.77	0.00	-197.74	0.00	197.74	2176.60	544.76	1400.37	1365.84	12.07	-1.154	0.000	0.162
112.00	-35.75	-5.73	0.00	-186.19	0.00	186.19	2159.23	537.91	1365.36	1337.73	12.56	-1.183	0.000	0.156
114.00	-35.25	-5.69	0.00	-174.73	0.00	174.73	2141.61	531.05	1330.80	1309.73	13.07	-1.212	0.000	0.150
115.00	-35.00	-5.67	0.00	-169.03	0.00	169.03	2132.70	527.63	1313.68	1295.79	13.32	-1.226	0.000	0.147
115.00	-35.00	-5.67	0.00	-169.03	0.00	169.03	1556.62	422.98	1055.35	949.74	13.32	-1.226	0.000	0.201
116.00	-34.77	-5.66	0.00	-163.36	0.00	163.36	1551.43	420.24	1041.71	940.38	13.58	-1.239	0.000	0.196
118.00	-34.33	-5.62	0.00	-152.05	0.00	152.05	1540.84	414.76	1014.72	921.68	14.11	-1.273	0.000	0.187
120.00	-33.88	-5.59	0.00	-140.80	0.00	140.80	1529.99	409.28	988.07	902.99	14.65	-1.305	0.000	0.178
122.00	-33.44	-5.55	0.00	-129.63	0.00	129.63	1518.89	403.80	961.78	884.33	15.20	-1.335	0.000	0.169
124.00	-33.00	-5.51	0.00	-118.53	0.00	118.53	1507.54	398.32	935.85	865.70	15.76	-1.365	0.000	0.159
126.00	-32.57	-5.47	0.00	-107.50	0.00	107.50	1495.93	392.84	910.27	847.11	16.34	-1.393	0.000	0.149
128.00	-32.14	-5.44	0.00	-96.55	0.00	96.55	1484.06	387.35	885.04	828.56	16.93	-1.419	0.000	0.138
130.00	-31.71	-5.39	0.00	-85.68	0.00	85.68	1471.95	381.87	860.17	810.06	17.53	-1.444	0.000	0.128
131.75	-30.77	-5.27	0.00	-76.24	0.00	76.24	1461.13	377.08	838.70	793.92	18.07	-1.463	0.000	0.117
132.00	-30.72	-5.27	0.00	-74.93	0.00	74.93	1459.57	376.39	835.65	791.62	18.14	-1.466	0.000	0.116
133.00	-22.10	-4.14	0.00	-69.66	0.00	69.66	1453.29	373.65	823.53	782.42	18.45	-1.477	0.000	0.104
134.00	-21.90	-4.12	0.00	-65.51	0.00	65.51	1446.94	370.91	811.49	773.23	18.76	-1.487	0.000	0.100
134.75	-21.40	-4.04	0.00	-62.42	0.00	62.42	1442.14	368.85	802.52	766.35	19.00	-1.494	0.000	0.096
136.00	-21.16	-4.01	0.00	-57.37	0.00	57.37	1434.06	365.43	787.68	754.91	19.39	-1.506	0.000	0.091
138.00	-20.78	-3.97	0.00	-49.35	0.00	49.35	1420.92	359.95	764.23	736.67	20.02	-1.523	0.000	0.082
140.00	-20.41	-3.92	0.00	-41.41	0.00	41.41	1407.52	354.47	741.13	718.50	20.66	-1.538	0.000	0.072
142.00	-11.43	-2.30	0.00	-33.57	0.00	33.57	1393.87	348.98	718.38	700.42	21.31	-1.551	0.000	0.056
144.00	-11.12	-2.25	0.00	-28.98	0.00	28.98	1379.97	343.50	695.99	682.44	21.96	-1.563	0.000	0.051
145.00	-10.96	-2.23	0.00	-26.73	0.00	26.73	1372.92	340.76	684.93	673.48	22.29	-1.568	0.000	0.048
145.00	-10.96	-2.23	0.00	-26.73	0.00	26.73	931.20	332.53	24157.3	604.09	22.29	-1.568	0.000	0.056
146.00	-10.81	-2.20	0.00	-24.50	0.00	24.50	925.24	329.86	23770.3	594.77	22.62	-1.573	0.000	0.053
148.00	-10.51	-2.16	0.00	-20.09	0.00	20.09	913.32	324.51	23005.8	576.36	23.28	-1.583	0.000	0.046
150.00	-10.21	-2.12	0.00	-15.77	0.00	15.77	901.40	319.16	22253.7	558.24	23.95	-1.591	0.000	0.040
150.00	-10.21	-2.12	0.00	-15.77	0.00	15.77	556.65	167.00	10296.1	213.69	23.95	-1.591	0.000	0.092
152.00	-5.89	-1.24	0.00	-11.54	0.00	11.54	556.65	167.00	10296.1	213.69	24.61	-1.597	0.000	0.065
154.00	-5.67	-1.20	0.00	-9.07	0.00	9.07	556.65	167.00	10296.1	213.69	25.29	-1.612	0.000	0.053
156.00	-5.46	-1.17	0.00	-6.66	0.00	6.66	556.65	167.00	10296.1	213.69	25.96	-1.624	0.000	0.041
158.00	-5.24	-1.13	0.00	-4.33	0.00	4.33	556.65	167.00	10296.1	213.69	26.65	-1.632	0.000	0.030
160.00	0.00	-0.98	0.00	-2.06	0.00	2.06	556.65	167.00	10296.1	213.69	27.33	-1.637	0.000	0.010

Seismic Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0Ev + 1.0Eh							Iterations 23
Gust Response Factor	1.10			Sds	0.21	Ss	0.20
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.09	S1	0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.25	SA	0.02	Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00	RB1 RB2	0.00	0.00	0.00	0.00	
1.00	RT2 RB3 RB4	626.12	0.50	26.45	0.00	
2.00		625.33	1.50	26.41	0.00	
4.00		1248.2	3.00	52.73	0.01	
6.00		1245.0	5.00	52.59	0.02	
8.00		1241.8	7.00	52.46	0.03	
10.00		1238.6	9.00	52.32	0.06	
12.00		1235.5	11.00	52.19	0.08	
14.00		1232.3	13.00	52.05	0.12	
16.00	Bot - Section 2	1229.1	15.00	51.92	0.15	
16.25	RT1 RB5	202.33	16.13	8.55	0.00	
18.00		1413.5	17.13	59.71	0.27	
18.63	RB6	507.68	18.31	21.44	0.04	
18.88	RT3 RT4	201.29	18.75	8.50	0.01	
20.00		900.54	19.44	38.04	0.14	
22.00	Top - Section 1	1603.1	21.00	67.72	0.51	
24.00		1222.5	23.00	51.64	0.36	
26.00		1219.3	25.00	51.51	0.42	
28.00		1216.1	27.00	51.37	0.49	
30.00	RB7	1572.9	29.00	66.44	0.94	
31.00	RT5	785.29	30.50	33.17	0.26	
32.00		784.49	31.50	33.14	0.28	
33.38	RT6	584.49	32.69	24.69	0.17	
34.00		262.10	33.69	11.07	0.04	
36.00		843.41	35.00	35.63	0.39	
38.00		840.22	37.00	35.49	0.44	
40.00	Appurtenance(s)	847.03	39.00	35.78	0.49	
42.00		833.46	41.00	35.21	0.53	
44.00		830.27	43.00	35.07	0.58	
45.16	RB8	480.10	44.58	20.28	0.21	
46.00	RT7	346.99	45.58	14.66	0.11	
48.00		823.89	47.00	34.80	0.68	
50.00	Bot - Section 3	820.70	49.00	34.67	0.73	
52.00		1159.4	51.00	48.97	1.58	
54.00		1153.0	53.00	48.70	1.69	
56.00	Top - Section 2	1146.6	55.00	48.44	1.80	
58.00	RT8 RB9	814.11	57.00	34.39	0.98	
60.00		810.93	59.00	34.25	1.04	
62.00		807.74	61.00	34.12	1.10	
64.00		804.55	63.00	33.98	1.16	
66.00		801.36	65.00	33.85	1.23	
68.00		798.17	67.00	33.71	1.30	
70.00		794.98	69.00	33.58	1.36	
72.00		791.79	71.00	33.45	1.43	
74.00		788.61	73.00	33.31	1.50	
76.00		785.42	75.00	33.18	1.57	

Seismic Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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78.00	RT9 RB10	782.23	77.00	33.04	1.64
80.00	Top - Section 3	779.04	79.00	32.91	1.72
82.00		727.27	81.00	30.72	1.57
84.00		724.61	83.00	30.61	1.64
86.00		721.95	85.00	30.50	1.71
88.00		719.30	87.00	30.38	1.77
90.00		716.64	89.00	30.27	1.84
92.00		713.98	91.00	30.16	1.91
94.00		711.33	93.00	30.05	1.98
95.00	Bot - Section 5	354.67	94.50	14.98	0.51
95.58	RT10	272.33	95.29	11.50	0.31
96.00		196.93	95.79	8.32	0.16
98.00		934.53	97.00	39.47	3.72
100.00	Top - Section 4	569.21	99.00	24.04	1.44
102.00		344.98	101.00	14.57	0.55
104.00		342.32	103.00	14.46	0.56
106.00		339.66	105.00	14.35	0.58
108.00		337.01	107.00	14.24	0.59
110.00	Appurtenance(s)	390.35	109.00	16.49	0.82
112.00		330.44	111.00	13.96	0.61
114.00		327.79	113.00	13.85	0.62
115.00	Top - Section 5	162.90	114.50	6.88	0.16
116.00		142.01	115.50	6.00	0.12
118.00		282.43	117.00	11.93	0.49
120.00		280.30	119.00	11.84	0.50
122.00		278.17	121.00	11.75	0.51
124.00		276.05	123.00	11.66	0.52
126.00		273.92	125.00	11.57	0.53
128.00		271.80	127.00	11.48	0.54
130.00		269.67	129.00	11.39	0.55
131.75	Appurtenance(s)	498.22	130.88	21.04	1.93
132.00		33.33	131.88	1.41	0.01
133.00	Appurtenance(s)	4486.1	132.50	189.49	160.06
134.00		116.46	133.50	4.92	0.11
134.75	Appurtenance(s)	285.30	134.38	12.05	0.67
136.00		144.33	135.38	6.10	0.17
138.00		229.20	137.00	9.68	0.45
140.00		227.08	139.00	9.59	0.45
142.00	Appurtenance(s)	4373.5	141.00	184.74	172.27
144.00		188.00	143.00	7.94	0.33
145.00	Top - Section 6	93.21	144.50	3.94	0.08
146.00		91.08	145.50	3.85	0.08
148.00		180.61	147.00	7.63	0.32
150.00	Top - Section 7	178.54	149.00	7.54	0.32
152.00	Appurtenance(s)	2497.0	151.00	105.47	64.40
154.00		133.14	153.00	5.62	0.19
156.00		133.14	155.00	5.62	0.19
158.00		133.14	157.00	5.62	0.20
160.00	Appurtenance(s)	2565.8	159.00	108.38	75.40
Totals:		70,682.2		2,985.6	534.1
					Total Wind: 36,125.7

Calculated Forces

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B



Height: 160.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 1.1

Topography: 1

Struct Class: II

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Load Case: 1.2D + 1.0Ev + 1.0Eh

Iterations 23

Gust Response Factor 1.10

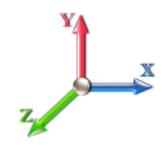
Sds 0.21

Ss 0.20

Dead Load Factor 1.20 **Seismic Load Factor** 1.00 **Sd1** 0.09

S1 0.05

Wind Load Factor 0.00 **Structure Frequency (f1)** 0.25 **SA** 0.02 **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	-81.19	-0.53	0.00	-77.03	0.00	77.03	3683.82	1059.58	4414.92	3756.66	0.00	0.00	0.00	0.026
1.00	-80.50	-0.53	0.00	-76.50	0.00	76.50	3677.71	1055.47	4380.73	3735.77	0.00	0.00	0.00	0.025
2.00	-79.80	-0.53	0.00	-75.97	0.00	75.97	3671.54	1051.36	4346.67	3714.86	0.00	0.00	0.00	0.025
4.00	-78.42	-0.54	0.00	-74.90	0.00	74.90	3659.00	1043.14	4278.95	3673.00	0.00	0.00	0.00	0.024
6.00	-77.04	-0.54	0.00	-73.83	0.00	73.83	3646.20	1034.91	4211.76	3631.09	0.00	0.00	0.00	0.024
8.00	-75.67	-0.54	0.00	-72.75	0.00	72.75	3633.16	1026.69	4145.10	3589.13	0.00	0.00	-0.01	0.024
10.00	-74.30	-0.54	0.00	-71.68	0.00	71.68	3619.85	1018.47	4078.97	3547.13	0.01	0.01	-0.01	0.023
12.00	-72.93	-0.54	0.00	-70.59	0.00	70.59	3606.29	1010.25	4013.38	3505.10	0.01	0.01	-0.01	0.023
14.00	-71.57	-0.54	0.00	-69.51	0.00	69.51	3592.48	1002.02	3948.31	3463.03	0.01	0.01	-0.01	0.023
16.00	-70.21	-0.54	0.00	-68.42	0.00	68.42	3578.41	993.80	3883.78	3420.94	0.02	0.02	-0.01	0.023
16.25	-69.98	-0.55	0.00	-68.28	0.00	68.28	3576.63	992.77	3875.75	3415.68	0.02	0.02	-0.01	0.026
18.00	-68.37	-0.55	0.00	-67.33	0.00	67.33	3564.09	985.58	3819.78	3378.83	0.02	0.02	-0.01	0.025
18.63	-67.79	-0.55	0.00	-66.99	0.00	66.99	3559.52	982.99	3799.73	3365.57	0.02	0.02	-0.01	0.021
18.88	-67.57	-0.55	0.00	-66.85	0.00	66.85	3557.70	981.96	3791.79	3360.30	0.03	0.03	-0.01	0.024
20.00	-66.54	-0.55	0.00	-66.24	0.00	66.24	3549.51	977.36	3756.31	3336.71	0.03	0.03	-0.01	0.024
22.00	-64.72	-0.55	0.00	-65.14	0.00	65.14	3563.12	985.03	3815.51	3376.01	0.04	0.04	-0.02	0.024
24.00	-63.37	-0.55	0.00	-64.05	0.00	64.05	3548.52	976.81	3752.08	3333.89	0.04	0.04	-0.02	0.023
26.00	-62.02	-0.55	0.00	-62.95	0.00	62.95	3533.67	968.58	3689.18	3291.77	0.05	0.05	-0.02	0.023
28.00	-60.68	-0.55	0.00	-61.85	0.00	61.85	3518.56	960.36	3626.81	3249.64	0.06	0.06	-0.02	0.023
30.00	-58.97	-0.55	0.00	-60.75	0.00	60.75	3503.20	952.14	3564.97	3207.53	0.07	0.07	-0.02	0.018
31.00	-58.11	-0.55	0.00	-60.20	0.00	60.20	3495.43	948.03	3534.25	3186.48	0.07	0.07	-0.02	0.020
32.00	-57.26	-0.55	0.00	-59.65	0.00	59.65	3487.59	943.92	3503.66	3165.43	0.08	0.08	-0.02	0.020
33.38	-56.60	-0.55	0.00	-58.89	0.00	58.89	3476.66	938.24	3461.67	3136.39	0.08	0.08	-0.02	0.024
34.00	-56.30	-0.55	0.00	-58.54	0.00	58.54	3471.72	935.70	3442.89	3123.35	0.09	0.09	-0.02	0.024
36.00	-55.35	-0.55	0.00	-57.44	0.00	57.44	3455.59	927.47	3382.65	3081.29	0.10	0.10	-0.03	0.024
38.00	-54.40	-0.55	0.00	-56.34	0.00	56.34	3439.21	919.25	3322.94	3039.26	0.11	0.11	-0.03	0.024
40.00	-53.45	-0.55	0.00	-55.23	0.00	55.23	3422.57	911.03	3263.76	2997.28	0.12	0.12	-0.03	0.024
42.00	-52.51	-0.55	0.00	-54.12	0.00	54.12	3405.68	902.81	3205.11	2955.34	0.13	0.13	-0.03	0.023
44.00	-51.57	-0.55	0.00	-53.01	0.00	53.01	3388.54	894.58	3146.99	2913.44	0.15	0.15	-0.03	0.023
45.16	-51.03	-0.55	0.00	-52.37	0.00	52.37	3378.48	889.81	3113.53	2889.17	0.15	0.15	-0.03	0.017
46.00	-50.64	-0.56	0.00	-51.90	0.00	51.90	3371.14	886.36	3089.41	2871.61	0.16	0.16	-0.03	0.022
48.00	-49.71	-0.56	0.00	-50.79	0.00	50.79	3353.48	878.14	3032.36	2829.83	0.17	0.17	-0.04	0.021
50.00	-48.79	-0.56	0.00	-49.68	0.00	49.68	3335.57	869.92	2975.84	2788.13	0.19	0.19	-0.04	0.021
52.00	-47.45	-0.55	0.00	-48.57	0.00	48.57	3317.41	861.69	2919.85	2746.50	0.21	0.21	-0.04	0.020
54.00	-46.11	-0.55	0.00	-47.46	0.00	47.46	3298.98	853.47	2864.39	2704.94	0.22	0.22	-0.04	0.020
56.00	-44.78	-0.55	0.00	-46.35	0.00	46.35	3316.18	861.14	2916.12	2743.71	0.24	0.24	-0.04	0.020
58.00	-43.87	-0.55	0.00	-45.25	0.00	45.25	3297.74	852.92	2860.70	2702.16	0.26	0.26	-0.04	0.021
60.00	-42.96	-0.55	0.00	-44.14	0.00	44.14	3279.05	844.70	2805.81	2660.71	0.28	0.28	-0.05	0.021
62.00	-42.05	-0.55	0.00	-43.04	0.00	43.04	3260.10	836.48	2751.45	2619.34	0.30	0.30	-0.05	0.020
64.00	-41.15	-0.55	0.00	-41.94	0.00	41.94	3240.90	828.25	2697.62	2578.08	0.32	0.32	-0.05	0.020
66.00	-40.25	-0.55	0.00	-40.84	0.00	40.84	3221.44	820.03	2644.33	2536.92	0.34	0.34	-0.05	0.020
68.00	-39.35	-0.55	0.00	-39.74	0.00	39.74	3201.73	811.81	2591.56	2495.87	0.36	0.36	-0.05	0.019
70.00	-38.46	-0.55	0.00	-38.65	0.00	38.65	3181.76	803.59	2539.33	2454.94	0.38	0.38	-0.06	0.019
72.00	-37.57	-0.55	0.00	-37.55	0.00	37.55	3161.54	795.36	2487.63	2414.13	0.41	0.41	-0.06	0.019
74.00	-36.69	-0.54	0.00	-36.46	0.00	36.46	3141.06	787.14	2436.47	2373.45	0.43	0.43	-0.06	0.018
76.00	-35.81	-0.54	0.00	-35.37	0.00	35.37	3120.33	778.92	2385.83	2332.91	0.46	0.46	-0.06	0.018
78.00	-34.94	-0.54	0.00	-34.28	0.00	34.28	3099.34	770.70	2335.73	2292.51	0.48	0.48	-0.06	0.018

Calculated Forces

Structure: CT02049-S-SBA

Code: TIA-222-H

6/8/2022

Site Name: Beacon Falls

Exposure: B

Height: 160.00 (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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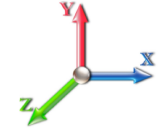
80.00	-34.06	-0.54	0.00	-33.20	0.00	33.20	3078.09	762.47	2286.15	2252.26	0.51	-0.06	0.017
80.00	-34.06	-0.54	0.00	-33.20	0.00	33.20	2384.58	636.50	1911.75	1750.88	0.51	-0.06	0.019
82.00	-33.26	-0.54	0.00	-32.12	0.00	32.12	2370.62	629.65	1870.81	1721.73	0.54	-0.07	0.020
84.00	-32.45	-0.54	0.00	-31.04	0.00	31.04	2356.42	622.80	1830.32	1692.63	0.56	-0.07	0.020
86.00	-31.65	-0.54	0.00	-29.97	0.00	29.97	2341.95	615.94	1790.27	1663.57	0.59	-0.07	0.020
88.00	-30.86	-0.53	0.00	-28.89	0.00	28.89	2327.23	609.09	1750.66	1634.56	0.62	-0.07	0.019
90.00	-30.06	-0.53	0.00	-27.83	0.00	27.83	2312.26	602.24	1711.49	1605.61	0.65	-0.07	0.019
92.00	-29.27	-0.53	0.00	-26.76	0.00	26.76	2297.03	595.39	1672.77	1576.72	0.68	-0.07	0.018
94.00	-28.48	-0.53	0.00	-25.70	0.00	25.70	2281.55	588.54	1634.49	1547.90	0.71	-0.08	0.018
95.00	-28.09	-0.53	0.00	-25.17	0.00	25.17	2273.71	585.11	1615.51	1533.52	0.73	-0.08	0.017
95.58	-27.78	-0.53	0.00	-24.87	0.00	24.87	2269.13	583.12	1604.56	1525.19	0.74	-0.08	0.017
95.58	-27.78	-0.53	0.00	-24.87	0.00	24.87	2269.13	583.12	1604.56	1525.19	0.74	-0.08	0.017
96.00	-27.56	-0.53	0.00	-24.65	0.00	24.65	2265.81	581.68	1596.65	1519.16	0.75	-0.08	0.028
98.00	-26.49	-0.52	0.00	-23.59	0.00	23.59	2249.81	574.83	1559.25	1490.50	0.78	-0.08	0.028
100.00	-25.81	-0.52	0.00	-22.54	0.00	22.54	2259.61	579.02	1582.04	1508.00	0.82	-0.08	0.026
102.00	-25.41	-0.52	0.00	-21.50	0.00	21.50	2243.52	572.17	1544.82	1479.37	0.85	-0.09	0.026
104.00	-25.00	-0.52	0.00	-20.45	0.00	20.45	2227.17	565.31	1508.04	1450.84	0.89	-0.09	0.025
106.00	-24.61	-0.52	0.00	-19.41	0.00	19.41	2210.57	558.46	1471.71	1422.40	0.93	-0.09	0.025
108.00	-24.21	-0.52	0.00	-18.36	0.00	18.36	2193.71	551.61	1435.82	1394.06	0.97	-0.10	0.024
110.00	-23.75	-0.52	0.00	-17.32	0.00	17.32	2176.60	544.76	1400.37	1365.84	1.01	-0.10	0.024
112.00	-23.37	-0.52	0.00	-16.27	0.00	16.27	2159.23	537.91	1365.36	1337.73	1.05	-0.10	0.023
114.00	-22.98	-0.52	0.00	-15.23	0.00	15.23	2141.61	531.05	1330.80	1309.73	1.09	-0.10	0.022
115.00	-22.79	-0.52	0.00	-14.71	0.00	14.71	2132.70	527.63	1313.68	1295.79	1.11	-0.10	0.022
115.00	-22.79	-0.52	0.00	-14.71	0.00	14.71	1556.62	422.98	1055.35	949.74	1.11	-0.10	0.030
116.00	-22.63	-0.52	0.00	-14.19	0.00	14.19	1551.43	420.24	1041.71	940.38	1.13	-0.11	0.030
118.00	-22.30	-0.52	0.00	-13.14	0.00	13.14	1540.84	414.76	1014.72	921.68	1.18	-0.11	0.029
120.00	-21.98	-0.52	0.00	-12.10	0.00	12.10	1529.99	409.28	988.07	902.99	1.23	-0.11	0.028
122.00	-21.66	-0.52	0.00	-11.06	0.00	11.06	1518.89	403.80	961.78	884.33	1.27	-0.11	0.027
124.00	-21.34	-0.52	0.00	-10.01	0.00	10.01	1507.54	398.32	935.85	865.70	1.32	-0.12	0.026
126.00	-21.02	-0.52	0.00	-8.97	0.00	8.97	1495.93	392.84	910.27	847.11	1.37	-0.12	0.025
128.00	-20.71	-0.52	0.00	-7.93	0.00	7.93	1484.06	387.35	885.04	828.56	1.42	-0.12	0.024
130.00	-20.40	-0.52	0.00	-6.89	0.00	6.89	1471.95	381.87	860.17	810.06	1.47	-0.12	0.022
131.75	-19.80	-0.52	0.00	-5.98	0.00	5.98	1461.13	377.08	838.70	793.92	1.52	-0.12	0.021
132.00	-19.76	-0.52	0.00	-5.85	0.00	5.85	1459.57	376.39	835.65	791.62	1.52	-0.12	0.021
133.00	-14.20	-0.35	0.00	-5.33	0.00	5.33	1453.29	373.65	823.53	782.42	1.55	-0.13	0.017
134.00	-14.06	-0.35	0.00	-4.99	0.00	4.99	1446.94	370.91	811.49	773.23	1.58	-0.13	0.016
134.75	-13.72	-0.34	0.00	-4.73	0.00	4.73	1442.14	368.85	802.52	766.35	1.60	-0.13	0.016
136.00	-13.55	-0.34	0.00	-4.30	0.00	4.30	1434.06	365.43	787.68	754.91	1.63	-0.13	0.015
138.00	-13.28	-0.34	0.00	-3.61	0.00	3.61	1420.92	359.95	764.23	736.67	1.68	-0.13	0.014
140.00	-13.02	-0.34	0.00	-2.92	0.00	2.92	1407.52	354.47	741.13	718.50	1.74	-0.13	0.013
142.00	-7.60	-0.16	0.00	-2.24	0.00	2.24	1393.87	348.98	718.38	700.42	1.79	-0.13	0.009
144.00	-7.38	-0.16	0.00	-1.92	0.00	1.92	1379.97	343.50	695.99	682.44	1.85	-0.13	0.008
145.00	-7.27	-0.16	0.00	-1.76	0.00	1.76	1372.92	340.76	684.93	673.48	1.87	-0.13	0.008
145.00	-7.27	-0.16	0.00	-1.76	0.00	1.76	931.20	332.53	24157.3	604.09	1.87	-0.13	0.011
146.00	-7.16	-0.16	0.00	-1.61	0.00	1.61	925.24	329.86	23770.3	594.77	1.90	-0.13	0.010
148.00	-6.95	-0.16	0.00	-1.29	0.00	1.29	913.32	324.51	23005.8	576.36	1.96	-0.13	0.010
150.00	-6.74	-0.16	0.00	-0.98	0.00	0.98	901.40	319.16	22253.7	558.24	2.01	-0.13	0.009
150.00	-6.74	-0.16	0.00	-0.98	0.00	0.98	556.65	167.00	10296.1	213.69	2.01	-0.13	0.017
152.00	-3.64	-0.08	0.00	-0.67	0.00	0.67	556.65	167.00	10296.1	213.69	2.07	-0.13	0.010
154.00	-3.49	-0.08	0.00	-0.50	0.00	0.50	556.65	167.00	10296.1	213.69	2.13	-0.13	0.009
156.00	-3.33	-0.08	0.00	-0.33	0.00	0.33	556.65	167.00	10296.1	213.69	2.18	-0.14	0.008
158.00	-3.18	-0.08	0.00	-0.17	0.00	0.17	556.65	167.00	10296.1	213.69	2.24	-0.14	0.006
160.00	0.00	-0.08	0.00	0.00	0.00	0.00	556.65	167.00	10296.1	213.69	2.30	-0.14	0.000

Seismic Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0Ev + 1.0Eh							Iterations 23
Gust Response Factor	1.10			Sds	0.21	Ss	0.20
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.09	S1	0.05
Wind Load Factor	0.00	Structure Frequency (f1)	0.25	SA	0.02	Seismic Importance Factor	1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00	RB1 RB2	0.00	0.00	0.00	0.00	
1.00	RT2 RB3 RB4	520.85	0.50	22.00	0.00	
2.00		520.06	1.50	21.97	0.00	
4.00		1037.7	3.00	43.83	0.00	
6.00		1034.5	5.00	43.70	0.01	
8.00		1031.3	7.00	43.56	0.02	
10.00		1028.1	9.00	43.43	0.04	
12.00		1024.9	11.00	43.29	0.06	
14.00		1021.7	13.00	43.16	0.08	
16.00	Bot - Section 2	1018.5	15.00	43.03	0.11	
16.25	RT1 RB5	176.02	16.13	7.43	0.00	
18.00		1229.3	17.13	51.93	0.21	
18.63	RB6	441.36	18.31	18.64	0.03	
18.88	RT3 RT4	174.97	18.75	7.39	0.01	
20.00		782.64	19.44	33.06	0.11	
22.00	Top - Section 1	1392.5	21.00	58.82	0.40	
24.00		1012.0	23.00	42.75	0.25	
26.00		1008.8	25.00	42.61	0.30	
28.00		1005.6	27.00	42.48	0.35	
30.00	RB7	1272.4	29.00	53.75	0.64	
31.00	RT5	635.02	30.50	26.82	0.18	
32.00		634.22	31.50	26.79	0.19	
33.38	RT6	501.32	32.69	21.18	0.13	
34.00		224.74	33.69	9.49	0.03	
36.00		722.87	35.00	30.53	0.30	
38.00		719.68	37.00	30.40	0.33	
40.00	Appurtenance(s)	726.49	39.00	30.69	0.38	
42.00		713.02	41.00	30.12	0.40	
44.00		709.83	43.00	29.98	0.44	
45.16	RB8	410.24	44.58	17.33	0.16	
46.00	RT7	296.40	45.58	12.52	0.09	
48.00		703.45	47.00	29.71	0.51	
50.00	Bot - Section 3	700.26	49.00	29.58	0.55	
52.00		1038.9	51.00	43.89	1.32	
54.00		1032.6	53.00	43.62	1.41	
56.00	Top - Section 2	1026.2	55.00	43.35	1.50	
58.00	RT8 RB9	693.67	57.00	29.30	0.74	
60.00		690.48	59.00	29.17	0.78	
62.00		687.29	61.00	29.03	0.83	
64.00		684.11	63.00	28.90	0.87	
66.00		680.92	65.00	28.76	0.92	
68.00		677.73	67.00	28.63	0.97	
70.00		674.54	69.00	28.49	1.02	
72.00		671.35	71.00	28.36	1.07	
74.00		668.16	73.00	28.22	1.12	
76.00		664.97	75.00	28.09	1.17	

Seismic Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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78.00	RT9 RB10	661.79	77.00	27.95	1.22
80.00	Top - Section 3	658.60	79.00	27.82	1.27
82.00		606.82	81.00	25.63	1.14
84.00		604.17	83.00	25.52	1.18
86.00		601.51	85.00	25.41	1.23
88.00		598.85	87.00	25.30	1.28
90.00		596.20	89.00	25.18	1.32
92.00		593.54	91.00	25.07	1.37
94.00		590.88	93.00	24.96	1.42
95.00	Bot - Section 5	294.44	94.50	12.44	0.36
95.58	RT10	237.40	95.29	10.03	0.24
96.00		171.63	95.79	7.25	0.13
98.00		814.08	97.00	34.39	2.93
100.00	Top - Section 4	538.77	99.00	22.76	1.34
102.00		314.53	101.00	13.29	0.47
104.00		311.88	103.00	13.17	0.49
106.00		309.22	105.00	13.06	0.50
108.00		306.56	107.00	12.95	0.51
110.00	Appurtenance(s)	359.91	109.00	15.20	0.72
112.00		300.31	111.00	12.69	0.52
114.00		297.66	113.00	12.57	0.53
115.00	Top - Section 5	147.83	114.50	6.24	0.13
116.00		126.94	115.50	5.36	0.10
118.00		252.29	117.00	10.66	0.41
120.00		250.17	119.00	10.57	0.42
122.00		248.04	121.00	10.48	0.42
124.00		245.92	123.00	10.39	0.43
126.00		243.79	125.00	10.30	0.44
128.00		241.67	127.00	10.21	0.44
130.00		239.54	129.00	10.12	0.45
131.75	Appurtenance(s)	471.85	130.88	19.93	1.79
132.00		29.56	131.88	1.25	0.01
133.00	Appurtenance(s)	4471.0	132.50	188.86	165.03
134.00		105.39	133.50	4.45	0.09
134.75	Appurtenance(s)	276.99	134.38	11.70	0.65
136.00		130.49	135.38	5.51	0.15
138.00		207.06	137.00	8.75	0.38
140.00		204.94	139.00	8.66	0.38
142.00	Appurtenance(s)	4351.4	141.00	183.80	177.02
144.00		174.57	143.00	7.37	0.29
145.00	Top - Section 6	86.49	144.50	3.65	0.07
146.00		84.37	145.50	3.56	0.07
148.00		167.18	147.00	7.06	0.28
150.00	Top - Section 7	165.11	149.00	6.97	0.28
152.00	Appurtenance(s)	2483.5	151.00	104.91	66.13
154.00		120.90	153.00	5.11	0.16
156.00		120.90	155.00	5.11	0.17
158.00		120.90	157.00	5.11	0.17
160.00	Appurtenance(s)	2553.6	159.00	107.86	77.52
Totals:		62,413.7		2,636.4	534.1
					Total Wind: 36,125.7

Calculated Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.0Ev + 1.0Eh						Iterations 23
Gust Response Factor 1.10				Sds 0.21		Ss 0.20
Dead Load Factor 0.90		Seismic Load Factor 1.00		Sd1 0.09		S1 0.05
Wind Load Factor 0.00		Structure Frequency (f1) 0.25		SA 0.02		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	-61.29	-0.53	0.00	-76.81	0.00	76.81	3683.82	1059.58	4414.92	3756.66	0.00	0.00	0.00	0.022
1.00	-60.77	-0.53	0.00	-76.27	0.00	76.27	3677.71	1055.47	4380.73	3735.77	0.00	0.00	0.00	0.022
2.00	-60.25	-0.53	0.00	-75.74	0.00	75.74	3671.54	1051.36	4346.67	3714.86	0.00	0.00	0.00	0.022
4.00	-59.20	-0.53	0.00	-74.67	0.00	74.67	3659.00	1043.14	4278.95	3673.00	0.00	0.00	0.00	0.021
6.00	-58.17	-0.54	0.00	-73.60	0.00	73.60	3646.20	1034.91	4211.76	3631.09	0.00	0.00	0.00	0.021
8.00	-57.13	-0.54	0.00	-72.53	0.00	72.53	3633.16	1026.69	4145.10	3589.13	0.00	0.00	-0.01	0.021
10.00	-56.10	-0.54	0.00	-71.46	0.00	71.46	3619.85	1018.47	4078.97	3547.13	0.01	0.00	-0.01	0.021
12.00	-55.07	-0.54	0.00	-70.38	0.00	70.38	3606.29	1010.25	4013.38	3505.10	0.01	0.00	-0.01	0.020
14.00	-54.04	-0.54	0.00	-69.30	0.00	69.30	3592.48	1002.02	3948.31	3463.03	0.01	0.00	-0.01	0.020
16.00	-53.02	-0.54	0.00	-68.22	0.00	68.22	3578.41	993.80	3883.78	3420.94	0.02	0.00	-0.01	0.020
16.25	-52.85	-0.54	0.00	-68.08	0.00	68.08	3576.63	992.77	3875.75	3415.68	0.02	0.00	-0.01	0.023
18.00	-51.63	-0.54	0.00	-67.13	0.00	67.13	3564.09	985.58	3819.78	3378.83	0.02	0.00	-0.01	0.022
18.63	-51.20	-0.54	0.00	-66.79	0.00	66.79	3559.52	982.99	3799.73	3365.57	0.02	0.00	-0.01	0.018
18.88	-51.03	-0.54	0.00	-66.66	0.00	66.66	3557.70	981.96	3791.79	3360.30	0.03	0.00	-0.01	0.021
20.00	-50.25	-0.54	0.00	-66.05	0.00	66.05	3549.51	977.36	3756.31	3336.71	0.03	0.00	-0.01	0.021
22.00	-48.88	-0.54	0.00	-64.96	0.00	64.96	3563.12	985.03	3815.51	3376.01	0.03	0.00	-0.02	0.021
24.00	-47.86	-0.55	0.00	-63.87	0.00	63.87	3548.52	976.81	3752.08	3333.89	0.04	0.00	-0.02	0.020
26.00	-46.85	-0.55	0.00	-62.78	0.00	62.78	3533.67	968.58	3689.18	3291.77	0.05	0.00	-0.02	0.020
28.00	-45.84	-0.55	0.00	-61.69	0.00	61.69	3518.56	960.36	3626.81	3249.64	0.06	0.00	-0.02	0.020
30.00	-44.55	-0.55	0.00	-60.60	0.00	60.60	3503.20	952.14	3564.97	3207.53	0.07	0.00	-0.02	0.015
31.00	-43.90	-0.55	0.00	-60.05	0.00	60.05	3495.43	948.03	3534.25	3186.48	0.07	0.00	-0.02	0.018
32.00	-43.26	-0.55	0.00	-59.51	0.00	59.51	3487.59	943.92	3503.66	3165.43	0.08	0.00	-0.02	0.018
33.38	-42.76	-0.55	0.00	-58.75	0.00	58.75	3476.66	938.24	3461.67	3136.39	0.08	0.00	-0.02	0.022
34.00	-42.54	-0.55	0.00	-58.41	0.00	58.41	3471.72	935.70	3442.89	3123.35	0.09	0.00	-0.02	0.022
36.00	-41.82	-0.55	0.00	-57.32	0.00	57.32	3455.59	927.47	3382.65	3081.29	0.10	0.00	-0.03	0.021
38.00	-41.11	-0.55	0.00	-56.22	0.00	56.22	3439.21	919.25	3322.94	3039.26	0.11	0.00	-0.03	0.021
40.00	-40.39	-0.55	0.00	-55.13	0.00	55.13	3422.57	911.03	3263.76	2997.28	0.12	0.00	-0.03	0.021
42.00	-39.68	-0.55	0.00	-54.03	0.00	54.03	3405.68	902.81	3205.11	2955.34	0.13	0.00	-0.03	0.021
44.00	-38.98	-0.55	0.00	-52.93	0.00	52.93	3388.54	894.58	3146.99	2913.44	0.15	0.00	-0.03	0.020
45.16	-38.57	-0.55	0.00	-52.30	0.00	52.30	3378.48	889.81	3113.53	2889.17	0.15	0.00	-0.03	0.015
46.00	-38.27	-0.55	0.00	-51.83	0.00	51.83	3371.14	886.36	3089.41	2871.61	0.16	0.00	-0.03	0.019
48.00	-37.57	-0.55	0.00	-50.73	0.00	50.73	3353.48	878.14	3032.36	2829.83	0.17	0.00	-0.04	0.019
50.00	-36.88	-0.55	0.00	-49.63	0.00	49.63	3335.57	869.92	2975.84	2788.13	0.19	0.00	-0.04	0.019
52.00	-35.86	-0.55	0.00	-48.53	0.00	48.53	3317.41	861.69	2919.85	2746.50	0.21	0.00	-0.04	0.018
54.00	-34.85	-0.55	0.00	-47.44	0.00	47.44	3298.98	853.47	2864.39	2704.94	0.22	0.00	-0.04	0.018
56.00	-33.85	-0.55	0.00	-46.34	0.00	46.34	3316.18	861.14	2916.12	2743.71	0.24	0.00	-0.04	0.018
58.00	-33.16	-0.55	0.00	-45.25	0.00	45.25	3297.74	852.92	2860.70	2702.16	0.26	0.00	-0.04	0.019
60.00	-32.47	-0.55	0.00	-44.15	0.00	44.15	3279.05	844.70	2805.81	2660.71	0.28	0.00	-0.05	0.018
62.00	-31.79	-0.55	0.00	-43.06	0.00	43.06	3260.10	836.48	2751.45	2619.34	0.30	0.00	-0.05	0.018
64.00	-31.11	-0.55	0.00	-41.97	0.00	41.97	3240.90	828.25	2697.62	2578.08	0.32	0.00	-0.05	0.018
66.00	-30.43	-0.54	0.00	-40.88	0.00	40.88	3221.44	820.03	2644.33	2536.92	0.34	0.00	-0.05	0.017
68.00	-29.76	-0.54	0.00	-39.79	0.00	39.79	3201.73	811.81	2591.56	2495.87	0.36	0.00	-0.05	0.017
70.00	-29.09	-0.54	0.00	-38.70	0.00	38.70	3181.76	803.59	2539.33	2454.94	0.38	0.00	-0.05	0.017
72.00	-28.42	-0.54	0.00	-37.61	0.00	37.61	3161.54	795.36	2487.63	2414.13	0.41	0.00	-0.06	0.017
74.00	-27.75	-0.54	0.00	-36.53	0.00	36.53	3141.06	787.14	2436.47	2373.45	0.43	0.00	-0.06	0.016
76.00	-27.09	-0.54	0.00	-35.45	0.00	35.45	3120.33	778.92	2385.83	2332.91	0.46	0.00	-0.06	0.016
78.00	-26.43	-0.54	0.00	-34.36	0.00	34.36	3099.34	770.70	2335.73	2292.51	0.48	0.00	-0.06	0.016

Calculated Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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80.00	-25.77	-0.54	0.00	-33.29	0.00	33.29	3078.09	762.47	2286.15	2252.26	0.51	-0.06	0.015
80.00	-25.77	-0.54	0.00	-33.29	0.00	33.29	2384.58	636.50	1911.75	1750.88	0.51	-0.06	0.017
82.00	-25.16	-0.54	0.00	-32.21	0.00	32.21	2370.62	629.65	1870.81	1721.73	0.53	-0.07	0.018
84.00	-24.56	-0.54	0.00	-31.13	0.00	31.13	2356.42	622.80	1830.32	1692.63	0.56	-0.07	0.018
86.00	-23.96	-0.54	0.00	-30.06	0.00	30.06	2341.95	615.94	1790.27	1663.57	0.59	-0.07	0.018
88.00	-23.36	-0.53	0.00	-28.99	0.00	28.99	2327.23	609.09	1750.66	1634.56	0.62	-0.07	0.017
90.00	-22.76	-0.53	0.00	-27.92	0.00	27.92	2312.26	602.24	1711.49	1605.61	0.65	-0.07	0.017
92.00	-22.16	-0.53	0.00	-26.86	0.00	26.86	2297.03	595.39	1672.77	1576.72	0.68	-0.07	0.016
94.00	-21.57	-0.53	0.00	-25.80	0.00	25.80	2281.55	588.54	1634.49	1547.90	0.71	-0.08	0.016
95.00	-21.27	-0.53	0.00	-25.27	0.00	25.27	2273.71	585.11	1615.51	1533.52	0.73	-0.08	0.016
95.58	-21.04	-0.53	0.00	-24.96	0.00	24.96	2269.13	583.12	1604.56	1525.19	0.74	-0.08	0.015
95.58	-21.04	-0.53	0.00	-24.96	0.00	24.96	2269.13	583.12	1604.56	1525.19	0.74	-0.08	0.015
96.00	-20.87	-0.53	0.00	-24.74	0.00	24.74	2265.81	581.68	1596.65	1519.16	0.75	-0.08	0.025
98.00	-20.07	-0.53	0.00	-23.68	0.00	23.68	2249.81	574.83	1559.25	1490.50	0.78	-0.08	0.025
100.00	-19.55	-0.52	0.00	-22.63	0.00	22.63	2259.61	579.02	1582.04	1508.00	0.81	-0.08	0.024
102.00	-19.25	-0.53	0.00	-21.58	0.00	21.58	2243.52	572.17	1544.82	1479.37	0.85	-0.09	0.023
104.00	-18.94	-0.53	0.00	-20.53	0.00	20.53	2227.17	565.31	1508.04	1450.84	0.89	-0.09	0.023
106.00	-18.64	-0.52	0.00	-19.48	0.00	19.48	2210.57	558.46	1471.71	1422.40	0.93	-0.09	0.022
108.00	-18.34	-0.52	0.00	-18.43	0.00	18.43	2193.71	551.61	1435.82	1394.06	0.97	-0.10	0.022
110.00	-18.00	-0.52	0.00	-17.38	0.00	17.38	2176.60	544.76	1400.37	1365.84	1.01	-0.10	0.021
112.00	-17.70	-0.52	0.00	-16.33	0.00	16.33	2159.23	537.91	1365.36	1337.73	1.05	-0.10	0.020
114.00	-17.41	-0.52	0.00	-15.28	0.00	15.28	2141.61	531.05	1330.80	1309.73	1.09	-0.10	0.020
115.00	-17.27	-0.52	0.00	-14.76	0.00	14.76	2132.70	527.63	1313.68	1295.79	1.11	-0.10	0.019
115.00	-17.27	-0.52	0.00	-14.76	0.00	14.76	1556.62	422.98	1055.35	949.74	1.11	-0.10	0.027
116.00	-17.15	-0.52	0.00	-14.24	0.00	14.24	1551.43	420.24	1041.71	940.38	1.13	-0.11	0.026
118.00	-16.90	-0.52	0.00	-13.19	0.00	13.19	1540.84	414.76	1014.72	921.68	1.18	-0.11	0.025
120.00	-16.65	-0.52	0.00	-12.14	0.00	12.14	1529.99	409.28	988.07	902.99	1.22	-0.11	0.024
122.00	-16.41	-0.52	0.00	-11.09	0.00	11.09	1518.89	403.80	961.78	884.33	1.27	-0.11	0.023
124.00	-16.17	-0.52	0.00	-10.04	0.00	10.04	1507.54	398.32	935.85	865.70	1.32	-0.12	0.022
126.00	-15.93	-0.52	0.00	-9.00	0.00	9.00	1495.93	392.84	910.27	847.11	1.37	-0.12	0.021
128.00	-15.70	-0.52	0.00	-7.95	0.00	7.95	1484.06	387.35	885.04	828.56	1.42	-0.12	0.020
130.00	-15.46	-0.52	0.00	-6.90	0.00	6.90	1471.95	381.87	860.17	810.06	1.47	-0.12	0.019
131.75	-15.01	-0.52	0.00	-5.99	0.00	5.99	1461.13	377.08	838.70	793.92	1.52	-0.12	0.018
132.00	-14.98	-0.52	0.00	-5.86	0.00	5.86	1459.57	376.39	835.65	791.62	1.52	-0.12	0.018
133.00	-10.76	-0.35	0.00	-5.34	0.00	5.34	1453.29	373.65	823.53	782.42	1.55	-0.13	0.014
134.00	-10.66	-0.35	0.00	-4.99	0.00	4.99	1446.94	370.91	811.49	773.23	1.58	-0.13	0.014
134.75	-10.40	-0.35	0.00	-4.73	0.00	4.73	1442.14	368.85	802.52	766.35	1.59	-0.13	0.013
136.00	-10.27	-0.35	0.00	-4.30	0.00	4.30	1434.06	365.43	787.68	754.91	1.63	-0.13	0.013
138.00	-10.07	-0.34	0.00	-3.61	0.00	3.61	1420.92	359.95	764.23	736.67	1.68	-0.13	0.012
140.00	-9.87	-0.34	0.00	-2.92	0.00	2.92	1407.52	354.47	741.13	718.50	1.74	-0.13	0.011
142.00	-5.76	-0.16	0.00	-2.24	0.00	2.24	1393.87	348.98	718.38	700.42	1.79	-0.13	0.007
144.00	-5.59	-0.16	0.00	-1.92	0.00	1.92	1379.97	343.50	695.99	682.44	1.85	-0.13	0.007
145.00	-5.51	-0.16	0.00	-1.76	0.00	1.76	1372.92	340.76	684.93	673.48	1.87	-0.13	0.007
145.00	-5.51	-0.16	0.00	-1.76	0.00	1.76	931.20	332.53	24157.3	604.09	1.87	-0.13	0.009
146.00	-5.43	-0.16	0.00	-1.61	0.00	1.61	925.24	329.86	23770.3	594.77	1.90	-0.13	0.009
148.00	-5.27	-0.16	0.00	-1.29	0.00	1.29	913.32	324.51	23005.8	576.36	1.96	-0.13	0.008
150.00	-5.11	-0.16	0.00	-0.98	0.00	0.98	901.40	319.16	22253.7	558.24	2.01	-0.13	0.007
150.00	-5.11	-0.16	0.00	-0.98	0.00	0.98	556.65	167.00	10296.1	213.69	2.01	-0.13	0.014
152.00	-2.76	-0.08	0.00	-0.67	0.00	0.67	556.65	167.00	10296.1	213.69	2.07	-0.13	0.008
154.00	-2.64	-0.08	0.00	-0.50	0.00	0.50	556.65	167.00	10296.1	213.69	2.13	-0.13	0.007
156.00	-2.53	-0.08	0.00	-0.33	0.00	0.33	556.65	167.00	10296.1	213.69	2.18	-0.14	0.006
158.00	-2.41	-0.08	0.00	-0.17	0.00	0.17	556.65	167.00	10296.1	213.69	2.24	-0.14	0.005
160.00	0.00	-0.08	0.00	0.00	0.00	0.00	556.65	167.00	10296.1	213.69	2.30	-0.14	0.000

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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 26

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	RB1 RB2	1.00	0.70	5.361	5.90	215.71	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3 RB4	1.00	0.70	5.361	5.90	214.88	0.972 *	0.000	1.00	4.338	4.21	24.9	0.0	205.0
2.00		1.00	0.70	5.361	5.90	214.05	0.973 *	0.000	1.00	4.321	4.20	24.8	0.0	204.2
4.00		1.00	0.70	5.361	5.90	212.39	0.975 *	0.000	2.00	8.592	8.37	49.4	0.0	406.1
6.00		1.00	0.70	5.361	5.90	210.73	0.977 *	0.000	2.00	8.525	8.33	49.1	0.0	402.9
8.00		1.00	0.70	5.361	5.90	209.07	0.980 *	0.000	2.00	8.458	8.28	48.9	0.0	399.7
10.00		1.00	0.70	5.361	5.90	207.41	0.982 *	0.000	2.00	8.391	8.24	48.6	0.0	396.5
12.00		1.00	0.70	5.361	5.90	205.74	0.985 *	0.000	2.00	8.324	8.20	48.3	0.0	393.3
14.00		1.00	0.70	5.361	5.90	204.08	0.987 *	0.000	2.00	8.257	8.15	48.1	0.0	390.2
16.00	Bot - Section 2	1.00	0.70	5.361	5.90	202.42	0.990 *	0.000	2.00	8.190	8.11	47.8	0.0	387.0
16.25	RT1 RB5	1.00	0.70	5.361	5.90	202.21	0.991 *	0.000	0.25	1.035	1.03	6.1	0.0	97.1
18.00		1.00	0.70	5.361	5.90	200.76	0.993 *	0.000	1.75	7.217	7.16	42.2	0.0	676.7
18.63	RB6	1.00	0.70	5.361	5.90	200.24	0.994 *	0.000	0.63	2.586	2.57	15.2	0.0	242.4
18.88	RT3 RT4	1.00	0.70	5.361	5.90	200.03	0.995 *	0.000	0.25	1.024	1.02	6.0	0.0	96.0
20.00		1.00	0.70	5.361	5.90	199.10	0.996 *	0.000	1.12	4.576	4.56	26.9	0.0	428.9
22.00	Top - Section 1	1.00	0.70	5.361	5.90	197.44	0.998 *	0.000	2.00	8.118	8.10	47.8	0.0	761.0
24.00		1.00	0.70	5.361	5.90	198.99	0.995 *	0.000	2.00	8.052	8.01	47.3	0.0	380.4
26.00		1.00	0.70	5.361	5.90	197.33	0.998 *	0.000	2.00	7.985	7.97	47.0	0.0	377.2
28.00		1.00	0.70	5.361	5.90	195.66	1.001 *	0.000	2.00	7.918	7.93	46.7	0.0	374.0
30.00	RB7	1.00	0.70	5.365	5.90	194.08	1.079 *	0.000	2.00	7.851	8.47	50.0	0.0	370.8
31.00	RT5	1.00	0.71	5.416	5.96	194.16	1.082 *	0.000	1.00	3.900	4.22	25.1	0.0	184.2
32.00		1.00	0.71	5.465	6.01	194.20	1.084 *	0.000	1.00	3.883	4.21	25.3	0.0	183.4
33.38	RT6	1.00	0.72	5.532	6.08	194.21	0.950	0.000	1.38	5.332	5.07	30.8	0.0	251.8
34.00		1.00	0.73	5.561	6.12	194.20	0.950	0.000	0.62	2.385	2.27	13.9	0.0	112.6
36.00		1.00	0.74	5.652	6.22	194.09	0.950	0.000	2.00	7.650	7.27	45.2	0.0	361.3
38.00		1.00	0.75	5.740	6.31	193.87	0.950	0.000	2.00	7.583	7.20	45.5	0.0	358.1
40.00	Appurtenance(s)	1.00	0.76	5.825	6.41	193.57	0.950	0.000	2.00	7.516	7.14	45.8	0.0	354.9
42.00		1.00	0.77	5.907	6.50	193.18	0.950	0.000	2.00	7.449	7.08	46.0	0.0	351.7
44.00		1.00	0.78	5.986	6.58	192.71	0.950	0.000	2.00	7.382	7.01	46.2	0.0	348.5
45.16	RB8	1.00	0.79	6.030	6.63	192.40	0.950	0.000	1.16	4.251	4.04	26.8	0.0	200.7
46.00	RT7	1.00	0.79	6.062	6.67	192.17	0.950	0.000	0.84	3.064	2.91	19.4	0.0	144.6
48.00		1.00	0.80	6.136	6.75	191.56	0.950	0.000	2.00	7.248	6.89	46.5	0.0	342.1
50.00	Bot - Section 3	1.00	0.81	6.208	6.83	190.90	0.950	0.000	2.00	7.181	6.82	46.6	0.0	338.9
52.00		1.00	0.82	6.278	6.91	190.17	0.950	0.000	2.00	7.244	6.88	47.5	0.0	677.6
54.00		1.00	0.83	6.346	6.98	189.39	0.950	0.000	2.00	7.177	6.82	47.6	0.0	671.3
56.00	Top - Section 2	1.00	0.84	6.413	7.05	188.56	0.950	0.000	2.00	7.110	6.75	47.6	0.0	664.9
58.00	RT8 RB9	1.00	0.85	6.477	7.13	191.21	0.950	0.000	2.00	7.043	6.69	47.7	0.0	332.3
60.00		1.00	0.85	6.540	7.19	190.31	0.950	0.000	2.00	6.976	6.63	47.7	0.0	329.2
62.00		1.00	0.86	6.602	7.26	189.36	0.950	0.000	2.00	6.909	6.56	47.7	0.0	326.0
64.00		1.00	0.87	6.662	7.33	188.36	0.950	0.000	2.00	6.842	6.50	47.6	0.0	322.8
66.00		1.00	0.88	6.721	7.39	187.33	0.950	0.000	2.00	6.775	6.44	47.6	0.0	319.6
68.00		1.00	0.89	6.779	7.46	186.27	0.950	0.000	2.00	6.708	6.37	47.5	0.0	316.4
70.00		1.00	0.89	6.835	7.52	185.16	0.950	0.000	2.00	6.641	6.31	47.4	0.0	313.2
72.00		1.00	0.90	6.890	7.58	184.03	0.950	0.000	2.00	6.574	6.25	47.3	0.0	310.0
74.00		1.00	0.91	6.944	7.64	182.86	0.950	0.000	2.00	6.507	6.18	47.2	0.0	306.8
76.00		1.00	0.91	6.997	7.70	181.66	0.950	0.000	2.00	6.440	6.12	47.1	0.0	303.6
78.00	RT9 RB10	1.00	0.92	7.050	7.75	180.43	0.950	0.000	2.00	6.373	6.05	47.0	0.0	300.5

Wind Loading - Shaft

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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80.00 Top - Section 3	1.00	0.93	7.101	7.81	179.17	0.950	0.000	2.00	6.306	5.99	46.8	0.0	297.3
82.00	1.00	0.93	7.151	7.87	177.88	0.950	0.000	2.00	6.239	5.93	46.6	0.0	245.5
84.00	1.00	0.94	7.200	7.92	176.57	0.950	0.000	2.00	6.172	5.86	46.4	0.0	242.8
86.00	1.00	0.95	7.249	7.97	175.23	0.950	0.000	2.00	6.106	5.80	46.3	0.0	240.2
88.00	1.00	0.95	7.297	8.03	173.87	0.950	0.000	2.00	6.039	5.74	46.0	0.0	237.5
90.00	1.00	0.96	7.344	8.08	172.49	0.950	0.000	2.00	5.972	5.67	45.8	0.0	234.9
92.00	1.00	0.96	7.390	8.13	171.08	0.950	0.000	2.00	5.905	5.61	45.6	0.0	232.2
94.00	1.00	0.97	7.436	8.18	169.65	0.950	0.000	2.00	5.838	5.55	45.4	0.0	229.6
95.00 Bot - Section 5	1.00	0.97	7.458	8.20	168.92	0.950	0.000	1.00	2.894	2.75	22.6	0.0	113.8
95.58 RT10	1.00	0.98	7.471	8.22	168.50	0.950	0.000	0.58	1.702	1.62	13.3	0.0	132.6
96.00	1.00	0.98	7.480	8.23	168.19	0.950	0.000	0.42	1.229	1.17	9.6	0.0	95.8
98.00	1.00	0.98	7.525	8.28	166.72	0.950	0.000	2.00	5.812	5.52	45.7	0.0	452.8
100.00 Top - Section 4	1.00	0.99	7.568	8.32	165.23	0.950	0.000	2.00	5.745	5.46	45.4	0.0	447.4
102.00	1.00	0.99	7.611	8.37	166.91	0.950	0.000	2.00	5.678	5.39	45.2	0.0	223.2
104.00	1.00	1.00	7.653	8.42	165.39	0.950	0.000	2.00	5.611	5.33	44.9	0.0	220.5
106.00	1.00	1.00	7.695	8.46	163.85	0.950	0.000	2.00	5.544	5.27	44.6	0.0	217.9
108.00	1.00	1.01	7.736	8.51	162.29	0.950	0.000	2.00	5.477	5.20	44.3	0.0	215.2
110.00 Appurtenance(s)	1.00	1.02	7.777	8.55	160.71	0.950	0.000	2.00	5.410	5.14	44.0	0.0	212.6
112.00	1.00	1.02	7.817	8.60	159.12	0.950	0.000	2.00	5.343	5.08	43.6	0.0	209.9
114.00	1.00	1.03	7.857	8.64	157.51	0.950	0.000	2.00	5.276	5.01	43.3	0.0	207.3
115.00 Top - Section 5	1.00	1.03	7.876	8.66	156.70	0.950	0.000	1.00	2.613	2.48	21.5	0.0	102.6
116.00	1.00	1.03	7.896	8.69	155.89	0.950	0.000	1.00	2.596	2.47	21.4	0.0	81.7
118.00	1.00	1.04	7.935	8.73	154.25	0.950	0.000	2.00	5.142	4.89	42.6	0.0	161.9
120.00	1.00	1.04	7.973	8.77	152.59	0.950	0.000	2.00	5.075	4.82	42.3	0.0	159.8
122.00	1.00	1.05	8.011	8.81	150.92	0.950	0.000	2.00	5.008	4.76	41.9	0.0	157.6
124.00	1.00	1.05	8.048	8.85	149.24	0.950	0.000	2.00	4.941	4.69	41.6	0.0	155.5
126.00	1.00	1.06	8.085	8.89	147.54	0.950	0.000	2.00	4.874	4.63	41.2	0.0	153.4
128.00	1.00	1.06	8.121	8.93	145.83	0.950	0.000	2.00	4.807	4.57	40.8	0.0	151.3
130.00	1.00	1.07	8.157	8.97	144.10	0.950	0.000	2.00	4.741	4.50	40.4	0.0	149.1
131.75 Appurtenance(s)	1.00	1.07	8.189	9.01	142.58	0.950	0.000	1.75	4.093	3.89	35.0	0.0	128.8
132.00	1.00	1.07	8.193	9.01	142.36	0.950	0.000	0.25	0.581	0.55	5.0	0.0	18.3
133.00 Appurtenance(s)	1.00	1.07	8.211	9.03	141.49	0.950	0.000	1.00	2.312	2.20	19.8	0.0	72.7
134.00	1.00	1.07	8.228	9.05	140.61	0.950	0.000	1.00	2.295	2.18	19.7	0.0	72.2
134.75 Appurtenance(s)	1.00	1.08	8.241	9.07	139.95	0.950	0.000	0.75	1.710	1.62	14.7	0.0	53.8
136.00	1.00	1.08	8.263	9.09	138.84	0.950	0.000	1.25	2.829	2.69	24.4	0.0	89.0
138.00	1.00	1.08	8.298	9.13	137.07	0.950	0.000	2.00	4.473	4.25	38.8	0.0	140.6
140.00	1.00	1.09	8.332	9.17	135.28	0.950	0.000	2.00	4.406	4.19	38.4	0.0	138.5
142.00 Appurtenance(s)	1.00	1.09	8.366	9.20	133.48	0.950	0.000	2.00	4.339	4.12	37.9	0.0	136.4
144.00	1.00	1.10	8.399	9.24	131.66	0.950	0.000	2.00	4.272	4.06	37.5	0.0	134.3
145.00 Top - Section 6	1.00	1.10	8.416	9.26	130.75	0.950	0.000	1.00	2.111	2.01	18.6	0.0	66.3
146.00	1.00	1.10	8.432	9.28	125.44	0.600	0.000	1.00	2.023	1.21	11.3	0.0	64.2
148.00	1.00	1.11	8.465	9.31	123.67	0.600	0.000	2.00	3.998	2.40	22.3	0.0	126.9
150.00 Top - Section 7	1.00	1.11	8.498	9.35	121.88	0.600	0.000	2.00	3.933	2.36	22.1	0.0	124.8
152.00 Appurtenance(s)	1.00	1.11	8.530	9.38	83.48	0.645 *	0.000	2.00	2.667	1.72	16.1	0.0	84.2
154.00	1.00	1.12	8.562	9.42	83.64	0.645 *	0.000	2.00	2.667	1.72	16.2	0.0	84.2
156.00	1.00	1.12	8.593	9.45	83.79	0.645 *	0.000	2.00	2.667	1.72	16.3	0.0	84.2
158.00	1.00	1.13	8.625	9.49	83.94	0.645 *	0.000	2.00	2.667	1.72	16.3	0.0	84.2
160.00 Appurtenance(s)	1.00	1.13	8.656	9.52	84.09	0.645 *	0.000	2.00	2.667	1.72	16.4	0.0	84.2

* Cf Adjusted by Linear Load Ra Effect

Totals:	160.00	3,428.3	23,786.1
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Discrete Appurtenance Forces

Structure: CT02049-S-SBA
Site Name: Beacon Falls
Height: 160.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

Topography: 1

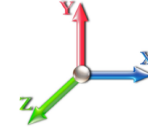
Code: TIA-222-H
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

6/8/2022
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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 26

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	160.00	B5/B13 RRH-BR04C	3	8.687	9.555	0.67	1.00	3.76	253.20	0.000	2.000	35.92	0.00	71.83
2	160.00	JAHH-65B-R3B	6	8.687	9.555	0.66	0.80	36.29	324.00	0.000	2.000	346.80	0.00	693.60
3	160.00	VZS01	3	8.687	9.555	0.69	1.00	8.90	261.30	0.000	2.000	85.05	0.00	170.10
4	160.00	CBC78T-DS-43	1	8.687	9.555	1.00	1.00	0.37	20.70	0.000	2.000	3.54	0.00	7.07
5	160.00	B2/B66A RRH-BR049	3	8.687	9.555	0.67	1.00	3.76	210.00	0.000	2.000	35.92	0.00	71.83
6	160.00	6' Lightning rod	1	8.702	9.572	1.00	1.00	0.38	6.50	0.000	3.000	3.64	0.00	10.91
7	160.00	Commscope	1	8.687	9.555	1.00	1.00	2.51	15.00	0.000	2.000	23.98	0.00	47.97
8	160.00	DB222	1	8.732	9.606	1.00	1.00	2.25	16.00	0.000	5.000	21.61	0.00	108.06
9	160.00	DB846F65ZAXY	6	8.687	9.555	0.74	0.80	31.47	126.00	0.000	2.000	300.72	0.00	601.43
10	160.00	Low Profile Platform	1	8.687	9.555	1.00	1.00	22.00	1200.00	0.000	2.000	210.22	0.00	420.43
11	152.00	MC-PK8-DSH	1	8.530	9.383	1.00	1.00	37.59	1727.00	0.000	0.000	352.70	0.00	0.00
12	152.00	MX08FRO665-21	3	8.530	9.383	0.55	0.75	20.80	193.50	0.000	0.000	195.13	0.00	0.00
13	152.00	TA08025-B605	3	8.530	9.383	0.50	0.75	2.95	225.00	0.000	0.000	27.72	0.00	0.00
14	152.00	TA08025-B604	3	8.530	9.383	0.50	0.75	2.95	191.70	0.000	0.000	27.72	0.00	0.00
15	152.00	RDIDC-9181-OF-48	1	8.530	9.383	0.75	0.75	1.51	21.90	0.000	0.000	14.14	0.00	0.00
16	142.00	Platform w/ HR & Bracing	1	8.366	9.202	1.00	1.00	52.00	2246.00	0.000	0.000	478.52	0.00	0.00
17	142.00	Mod	1	8.366	9.202	1.00	1.00	12.00	300.00	0.000	0.000	110.43	0.00	0.00
18	142.00	4415	1	8.366	9.202	0.54	0.80	1.00	44.10	0.000	0.000	9.17	0.00	0.00
19	142.00	4449 B71 + B85	4	8.366	9.202	0.54	0.80	4.22	292.80	0.000	0.000	38.87	0.00	0.00
20	142.00	KRY 112 144/1	3	8.366	9.202	0.40	0.80	0.49	33.00	0.000	0.000	4.53	0.00	0.00
21	142.00	APXVA18-43-C-A20	1	8.366	9.202	0.61	0.75	5.93	45.40	0.000	0.000	54.61	0.00	0.00
22	142.00	APXVAARR24_43-U-NA2	3	8.366	9.202	0.52	0.75	31.88	384.00	0.000	0.000	293.35	0.00	0.00
23	142.00	KRD 9011461-B66A-B2A	4	8.366	9.202	0.65	0.75	16.99	528.80	0.000	0.000	156.36	0.00	0.00
24	142.00	AIR 21, 1.3M, B2A B4P	3	8.366	9.202	0.65	0.75	11.78	274.50	0.000	0.000	108.44	0.00	0.00
25	134.75	AIR 6419 B77G	3	8.241	9.065	0.61	0.80	6.93	198.30	0.000	0.000	62.83	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	8.211	9.032	0.57	0.80	19.45	202.00	0.000	0.000	175.65	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	8.211	9.032	0.58	0.80	10.44	95.70	0.000	0.000	94.26	0.00	0.00
28	133.00	4478 B14	3	8.211	9.032	0.54	0.80	2.96	179.70	0.000	0.000	26.72	0.00	0.00
29	133.00	DC9-48-60-24-8C-EV	1	8.211	9.032	0.80	0.80	0.91	26.20	0.000	0.000	8.24	0.00	0.00
30	133.00	Kathrein 800-10965	3	8.211	9.032	0.57	0.80	23.53	325.80	0.000	0.000	212.54	0.00	0.00
31	133.00	(3) SitePro 1 P/N	2	8.211	9.032	0.56	0.75	24.01	2715.54	0.000	0.000	216.83	0.00	0.00
32	133.00	Powerwave LGP21401	6	8.211	9.032	0.54	0.80	4.15	84.60	0.000	0.000	37.47	0.00	0.00
33	133.00	Ericsson RRUS-32 RRU	3	8.211	9.032	0.54	0.80	6.22	231.00	0.000	0.000	56.20	0.00	0.00
34	133.00	Ericsson B2/B66A 8843	3	8.211	9.032	0.54	0.80	2.64	216.00	0.000	0.000	23.82	0.00	0.00
35	133.00	Ericsson B5/B12 4449	3	8.211	9.032	0.54	0.80	3.17	213.00	0.000	0.000	28.61	0.00	0.00
36	133.00	Raycap DC6-48-60-18-8F	2	8.211	9.032	0.54	0.80	0.99	63.60	0.000	0.000	8.91	0.00	0.00
37	131.75	AIR 6449 B77D	3	8.189	9.007	0.68	0.80	8.43	264.00	0.000	0.000	75.89	0.00	0.00
38	110.00	3 ft Standoff	1	7.777	8.555	1.00	1.00	2.63	40.00	0.000	0.000	22.50	0.00	0.00
39	110.00	DB222	1	7.882	8.670	1.00	1.00	2.65	16.00	0.000	5.292	22.98	0.00	121.59
40	40.00	GPS	1	5.825	6.407	1.00	1.00	1.00	10.00	0.000	0.000	6.41	0.00	0.00

Totals: 13,821.84

4,018.93

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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 26

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		24.85	555.94	0.00	0.00
2.00		24.79	555.15	0.00	0.00
4.00		49.38	1107.90	0.00	0.00
6.00		49.11	1104.71	0.00	0.00
8.00		48.85	1101.52	0.00	0.00
10.00		48.59	1098.34	0.00	0.00
12.00		48.33	1095.15	0.00	0.00
14.00		48.06	1091.96	0.00	0.00
16.00		47.80	1088.77	0.00	0.00
16.25		6.05	184.79	0.00	0.00
18.00		42.25	1290.74	0.00	0.00
18.63		15.16	463.47	0.00	0.00
18.88		6.01	183.74	0.00	0.00
20.00		26.87	821.94	0.00	0.00
22.00		47.78	1462.77	0.00	0.00
24.00		47.26	1082.18	0.00	0.00
26.00		47.00	1078.99	0.00	0.00
28.00		46.73	1075.80	0.00	0.00
30.00		50.02	1372.61	0.00	0.00
31.00		25.14	685.11	0.00	0.00
32.00		25.31	684.31	0.00	0.00
33.38		30.82	529.04	0.00	0.00
34.00		13.86	237.19	0.00	0.00
36.00		45.18	763.05	0.00	0.00
38.00		45.49	759.86	0.00	0.00
40.00	(1) attachments	52.16	766.67	0.00	0.00
42.00		45.98	753.16	0.00	0.00
44.00		46.18	749.97	0.00	0.00
45.16		26.79	433.52	0.00	0.00
46.00		19.41	313.26	0.00	0.00
48.00		46.48	743.60	0.00	0.00
50.00		46.59	740.41	0.00	0.00
52.00		47.53	1079.13	0.00	0.00
54.00		47.60	1072.75	0.00	0.00
56.00		47.64	1066.37	0.00	0.00
58.00		47.67	733.82	0.00	0.00
60.00		47.68	730.63	0.00	0.00
62.00		47.67	727.44	0.00	0.00
64.00		47.63	724.25	0.00	0.00
66.00		47.58	721.06	0.00	0.00
68.00		47.52	717.88	0.00	0.00
70.00		47.43	714.69	0.00	0.00
72.00		47.34	711.50	0.00	0.00
74.00		47.22	708.31	0.00	0.00
76.00		47.09	705.12	0.00	0.00
78.00		46.95	701.93	0.00	0.00

Total Applied Force Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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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80.00		46.79	698.75	0.00	0.00
82.00		46.63	646.97	0.00	0.00
84.00		46.44	644.31	0.00	0.00
86.00		46.25	641.66	0.00	0.00
88.00		46.04	639.00	0.00	0.00
90.00		45.83	636.34	0.00	0.00
92.00		45.60	633.69	0.00	0.00
94.00		45.36	631.03	0.00	0.00
95.00		22.55	314.52	0.00	0.00
95.58		13.29	249.05	0.00	0.00
96.00		9.61	180.06	0.00	0.00
98.00		45.70	854.23	0.00	0.00
100.00		45.43	548.92	0.00	0.00
102.00		45.16	324.68	0.00	0.00
104.00		44.87	322.02	0.00	0.00
106.00		44.58	319.37	0.00	0.00
108.00		44.28	316.71	0.00	0.00
110.00	(2) attachments	89.44	370.05	0.00	121.59
112.00		43.65	310.36	0.00	0.00
114.00		43.32	307.70	0.00	0.00
115.00		21.51	152.85	0.00	0.00
116.00		21.42	131.97	0.00	0.00
118.00		42.64	262.34	0.00	0.00
120.00		42.29	260.21	0.00	0.00
122.00		41.92	258.09	0.00	0.00
124.00		41.56	255.96	0.00	0.00
126.00		41.18	253.84	0.00	0.00
128.00		40.80	251.71	0.00	0.00
130.00		40.41	249.58	0.00	0.00
131.75	(3) attachments	110.91	480.64	0.00	0.00
132.00		4.97	30.82	0.00	0.00
133.00	(29) attachments	909.07	4476.07	0.00	0.00
134.00		19.73	109.08	0.00	0.00
134.75	(3) attachments	77.56	279.76	0.00	0.00
136.00		24.43	135.11	0.00	0.00
138.00		38.78	214.44	0.00	0.00
140.00		38.36	212.32	0.00	0.00
142.00	(21) attachments	1292.20	4358.79	0.00	0.00
144.00		37.50	179.05	0.00	0.00
145.00		18.56	88.73	0.00	0.00
146.00		11.26	86.61	0.00	0.00
148.00		22.34	171.66	0.00	0.00
150.00		22.06	169.58	0.00	0.00
152.00	(11) attachments	633.56	2488.07	0.00	0.00
154.00		16.20	124.98	0.00	0.00
156.00		16.26	124.98	0.00	0.00
158.00		16.32	124.98	0.00	0.00
160.00	(26) attachments	1083.76	2557.68	0.00	2203.25
Totals:		7,447.21	65,169.86	0.00	2,324.83

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	5.361	0.00	2.20
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	0.52
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	1.99
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	2.20
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	1.91
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	0.52
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	5.361	0.00	120.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	5.361	0.00	180.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	5.361	0.00	2.20
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	0.52
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	1.99
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	2.20
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	1.91
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	0.52
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	5.361	0.00	120.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	5.361	0.00	180.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	5.361	0.00	4.40
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	1.04
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	3.98
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	4.40
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	3.82
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	1.04
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	5.361	0.00	240.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	5.361	0.00	360.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	5.361	0.00	4.40
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	1.04
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	3.98
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	4.40
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	3.82
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	1.04
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	5.361	0.00	240.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	5.361	0.00	360.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	5.361	0.00	4.40
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	1.04
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	3.98
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	4.40
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	3.82
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	1.04
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	5.361	0.00	240.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	5.361	0.00	360.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	5.361	0.00	4.40
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	1.04
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	3.98
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	4.40
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	3.82
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	1.04
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	5.361	0.00	240.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



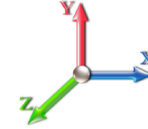
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	5.361	0.00	360.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	5.361	0.00	4.40
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	1.04
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	3.98
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	4.40
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	3.82
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	1.04
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	5.361	0.00	240.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	5.361	0.00	360.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	5.361	0.00	4.40
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	1.04
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	3.98
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	4.40
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	3.82
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	1.04
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	5.361	0.00	240.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	5.361	0.00	360.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	5.361	0.00	4.40
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	1.04
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	3.98
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	4.40
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	3.82
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	1.04
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	5.361	0.00	240.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	5.361	0.00	360.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	5.361	0.00	0.55
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.13
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.50
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.55
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.48
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.13
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	5.361	0.00	30.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	5.361	0.00	45.00
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	5.361	0.00	3.85
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	0.91
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.48
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.85
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.34
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	0.91
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	5.361	0.00	210.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	5.361	0.00	315.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	5.361	0.00	1.39
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.33
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.25
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.39
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.20
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.33

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

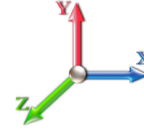


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	5.361	0.00	75.60
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	5.361	0.00	113.40
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	5.361	0.00	0.55
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.13
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.50
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.55
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.48
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.13
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	5.361	0.00	30.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	5.361	0.00	45.00
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	5.361	0.00	2.46
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	0.58
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.23
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.46
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.14
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	0.58
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	5.361	0.00	134.40
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	5.361	0.00	201.60
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	5.361	0.00	4.40
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	1.04
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	3.98
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	4.40
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	3.82
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	1.04
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	5.361	0.00	240.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	5.361	0.00	360.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	5.361	0.00	4.40
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	1.04
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	3.98
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	4.40
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	3.82
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	1.04
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	5.361	0.00	240.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	5.361	0.00	360.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	5.361	0.00	4.40
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	1.04
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	3.98
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	4.40
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	3.82
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	1.04
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	5.361	0.00	240.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	5.361	0.00	360.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	5.361	0.00	4.40
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	1.04
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	3.98
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	4.40
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	3.82

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	1.04
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	5.361	0.00	240.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	5.361	0.00	360.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	5.365	0.00	4.40
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	1.04
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	3.98
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	4.40
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	3.82
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	1.04
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	5.365	0.00	300.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	5.365	0.00	240.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	5.365	0.00	360.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	5.416	0.00	2.20
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	0.52
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	1.99
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	2.20
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	1.91
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	0.52
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	5.416	0.00	150.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	5.416	0.00	120.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	5.416	0.00	180.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	5.465	0.00	2.20
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	0.52
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	1.99
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	2.20
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	1.91
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	0.52
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	5.465	0.00	150.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	5.465	0.00	120.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	5.465	0.00	180.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	5.532	0.00	3.04
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	0.72
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	2.75
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	3.04
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	2.63
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	0.72
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	5.532	0.00	207.00
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	5.561	0.00	1.36
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	0.32
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.23
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.36
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.18
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	0.32
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	5.561	0.00	93.00
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	5.652	0.00	4.40
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	1.04
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	3.98

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

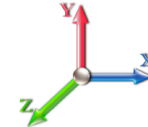


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	4.40
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	3.82
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	1.04
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	5.652	0.00	300.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	5.740	0.00	4.40
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	1.04
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	3.98
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	4.40
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	3.82
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	1.04
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	5.740	0.00	300.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	5.825	0.00	4.40
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	1.04
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	3.98
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	4.40
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	3.82
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	1.04
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	5.825	0.00	300.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	5.907	0.00	4.40
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	1.04
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	3.98
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	4.40
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	3.82
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	1.04
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	5.907	0.00	300.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	5.986	0.00	4.40
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	1.04
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	3.98
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	4.40
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	3.82
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	1.04
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	5.986	0.00	300.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	6.030	0.00	2.55
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	0.60
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	2.31
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	2.55
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	2.21
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.030	0.00	0.60
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	6.030	0.00	174.00
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	6.062	0.00	1.85
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	0.44
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.67
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.85
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.60
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	0.44
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	6.062	0.00	126.00
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	6.136	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



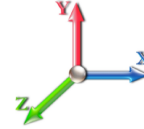
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	1.04
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	3.98
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	4.40
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	3.82
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.136	0.00	1.04
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	6.136	0.00	300.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	6.208	0.00	4.40
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	1.04
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	3.98
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	4.40
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	3.82
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.208	0.00	1.04
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	6.208	0.00	300.00
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	6.278	0.00	4.40
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	1.04
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	3.98
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	4.40
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	3.82
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.278	0.00	1.04
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	6.278	0.00	300.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	6.346	0.00	4.40
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	1.04
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	3.98
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	4.40
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	3.82
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.346	0.00	1.04
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	6.346	0.00	300.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.413	0.00	4.40
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	1.04
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	3.98
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	4.40
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	3.82
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	1.04
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.413	0.00	300.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	6.477	0.00	4.40
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	1.04
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	3.98
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	4.40
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	3.82
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	1.04
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	6.477	0.00	300.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.540	0.00	4.40
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	1.04
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	3.98
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	4.40
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	3.82
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.540	0.00	1.04

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

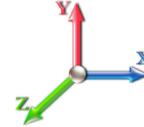


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.540	0.00	300.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.602	0.00	4.40
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	1.04
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	3.98
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	4.40
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	3.82
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	1.04
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.602	0.00	300.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	6.662	0.00	4.40
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	1.04
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	3.98
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	4.40
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	3.82
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	1.04
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	6.662	0.00	300.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	6.721	0.00	4.40
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	1.04
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	3.98
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	4.40
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	3.82
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	1.04
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	6.721	0.00	300.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	6.779	0.00	4.40
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	1.04
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	3.98
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	4.40
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	3.82
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	1.04
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	6.779	0.00	300.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	6.835	0.00	4.40
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	1.04
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	3.98
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	4.40
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	3.82
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	1.04
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	6.835	0.00	300.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	6.890	0.00	4.40
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	1.04
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	3.98
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	4.40
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	3.82
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	1.04
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	6.890	0.00	300.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	6.944	0.00	4.40
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	1.04
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	3.98
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

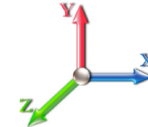
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	3.82
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	1.04
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	6.944	0.00	300.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	6.997	0.00	4.40
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	1.04
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	3.98
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	4.40
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	3.82
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.997	0.00	1.04
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	6.997	0.00	300.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	7.050	0.00	4.40
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	1.04
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	3.98
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	4.40
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	3.82
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	1.04
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	7.050	0.00	300.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	7.101	0.00	4.40
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	1.04
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	3.98
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	4.40
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	3.82
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	1.04
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	7.101	0.00	300.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	7.151	0.00	4.40
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	1.04
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	3.98
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	4.40
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	3.82
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	1.04
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	7.151	0.00	300.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	7.200	0.00	4.40
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	1.04
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	3.98
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	4.40
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	3.82
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.200	0.00	1.04
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	7.200	0.00	300.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	7.249	0.00	4.40
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	1.04
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	3.98
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	4.40
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	3.82
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	1.04
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	7.249	0.00	300.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	7.297	0.00	4.40
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	1.04

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



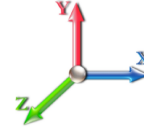
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	3.98
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	4.40
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	3.82
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	1.04
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	7.297	0.00	300.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	7.344	0.00	4.40
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	1.04
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	3.98
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	4.40
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	3.82
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	1.04
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	7.344	0.00	300.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	7.390	0.00	4.40
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	1.04
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	3.98
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	4.40
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	3.82
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	1.04
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	7.390	0.00	300.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	7.436	0.00	4.40
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	1.04
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	3.98
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	4.40
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	3.82
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	1.04
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	7.436	0.00	300.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	7.458	0.00	2.20
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	0.52
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	1.99
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	2.20
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	1.91
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	0.52
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	7.458	0.00	150.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	7.471	0.00	1.28
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	0.30
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.15
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.28
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.11
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	0.30
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	7.471	0.00	87.00
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	7.480	0.00	0.92
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.22
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.84
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.92
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.80
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.480	0.00	0.22
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	7.480	0.00	63.00

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



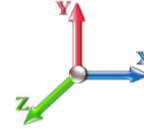
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00

Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	7.525	0.00	4.40
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	1.04
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	3.98
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	4.40
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	3.82
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	1.04
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	7.525	0.00	300.00
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.568	0.00	4.40
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	1.04
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	3.98
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	4.40
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	3.82
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	1.04
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.611	0.00	4.40
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	1.04
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	3.98
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	4.40
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	3.82
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	1.04
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.653	0.00	4.40
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	1.04
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	3.98
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	4.40
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	3.82
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.653	0.00	1.04
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	7.695	0.00	4.40
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	1.04
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	3.98
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	4.40
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	3.82
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	1.04
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	7.736	0.00	4.40
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	1.04
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	3.98
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	4.40
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	3.82
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.736	0.00	1.04
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	7.777	0.00	4.40
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	1.04
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	3.98
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	4.40
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	3.82
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	1.04
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	7.817	0.00	4.40
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	1.04
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	3.98
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

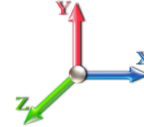


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

Dead Load Factor 1.00
Wind Load Factor 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	3.82
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	7.857	0.00	4.40
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	1.04
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	3.98
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	4.40
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	3.82
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	7.876	0.00	2.20
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.876	0.00	0.52
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.876	0.00	1.99
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.876	0.00	2.20
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.876	0.00	1.91
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	7.896	0.00	2.20
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	0.52
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	1.99
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	2.20
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	1.91
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	7.935	0.00	4.40
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	1.04
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	3.98
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	4.40
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	3.82
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	7.973	0.00	4.40
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	1.04
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	3.98
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	4.40
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	3.82
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	8.011	0.00	4.40
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	1.04
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	3.98
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	4.40
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	3.82
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	8.048	0.00	4.40
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	1.04
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	3.98
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	4.40
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	3.82
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	8.085	0.00	4.40
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	1.04
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	3.98
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	4.40
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	3.82
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	8.121	0.00	4.40
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	1.04
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	3.98
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	4.40
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	3.82
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	8.157	0.00	4.40

Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (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 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	1.04
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	3.98
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	4.40
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	3.82
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	8.189	0.00	3.85
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	0.91
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.48
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.85
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.34
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	8.193	0.00	0.55
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.13
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.50
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.55
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.48
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	8.211	0.00	2.20
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	0.52
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	1.99
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	2.20
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	1.91
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	8.228	0.00	2.20
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	0.52
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	1.99
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	2.20
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	1.91
134.75	1 5/8" Hybrid	Yes	0.75	0.000	2.00	0.13	0.00	0.073	0.000	8.241	0.00	1.65
134.75	7/8" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	8.241	0.00	0.39
134.75	1.75" Hybrid	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	8.241	0.00	1.49
134.75	1 5/8" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	8.241	0.00	1.65
134.75	1-1/4" Fiber	Yes	0.75	0.000	0.00	0.00	0.00	0.073	0.000	8.241	0.00	1.43
136.00	1 5/8" Hybrid	Yes	1.25	0.000	2.00	0.21	0.00	0.074	0.000	8.263	0.00	2.75
136.00	7/8" Coax	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	8.263	0.00	0.65
136.00	1.75" Hybrid	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	8.263	0.00	2.49
136.00	1 5/8" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	8.263	0.00	2.75
136.00	1-1/4" Fiber	Yes	1.25	0.000	0.00	0.00	0.00	0.074	0.000	8.263	0.00	2.38
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	8.298	0.00	4.40
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	1.04
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	3.98
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	4.40
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	3.82
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	8.332	0.00	4.40
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	1.04
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	3.98
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	4.40
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	3.82
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	8.366	0.00	4.40
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	1.04
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	3.98

Linear Appurtenance Segment Forces (Factored)

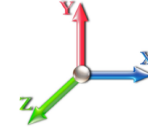
Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	4.40
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	3.82
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	8.399	0.00	4.40
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	8.399	0.00	1.04
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	8.399	0.00	3.98
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	8.416	0.00	2.20
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	8.416	0.00	0.52
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	8.416	0.00	1.99
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	8.432	0.00	2.20
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	8.432	0.00	0.52
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	8.432	0.00	1.99
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	8.465	0.00	4.40
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	8.465	0.00	1.04
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	8.465	0.00	3.98
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	8.498	0.00	4.40
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	8.498	0.00	1.04
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	8.498	0.00	3.98
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.530	0.00	4.40
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.530	0.00	1.04
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.530	0.00	3.98
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.562	0.00	4.40
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.562	0.00	1.04
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.593	0.00	4.40
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.593	0.00	1.04
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.625	0.00	4.40
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.625	0.00	1.04
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.656	0.00	4.40
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.656	0.00	1.04
Totals:											0.0	21,478.4

Calculated Forces

Structure: CT02049-S-SBA
Site Name: Beacon Falls
Height: 160.00 (ft)
Base Elev: 0.000 (ft)
Gh: 1.1

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

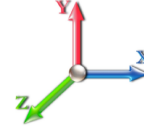
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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 26

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	-65.17	-7.45	0.00	-881.74	0.00	881.74	3683.82	1059.58	4414.92	3756.66	0.00	0.000	0.000	0.150
1.00	-64.61	-7.43	0.00	-874.29	0.00	874.29	3677.71	1055.47	4380.73	3735.77	0.00	-0.008	0.000	0.149
2.00	-64.06	-7.42	0.00	-866.85	0.00	866.85	3671.54	1051.36	4346.67	3714.86	0.00	-0.015	0.000	0.148
4.00	-62.95	-7.39	0.00	-852.01	0.00	852.01	3659.00	1043.14	4278.95	3673.00	0.01	-0.031	0.000	0.147
6.00	-61.84	-7.36	0.00	-837.23	0.00	837.23	3646.20	1034.91	4211.76	3631.09	0.03	-0.046	0.000	0.145
8.00	-60.74	-7.32	0.00	-822.52	0.00	822.52	3633.16	1026.69	4145.10	3589.13	0.05	-0.062	0.000	0.144
10.00	-59.64	-7.29	0.00	-807.88	0.00	807.88	3619.85	1018.47	4078.97	3547.13	0.08	-0.077	0.000	0.142
12.00	-58.54	-7.25	0.00	-793.30	0.00	793.30	3606.29	1010.25	4013.38	3505.10	0.12	-0.093	0.000	0.141
14.00	-57.44	-7.22	0.00	-778.79	0.00	778.79	3592.48	1002.02	3948.31	3463.03	0.16	-0.108	0.000	0.140
16.00	-56.35	-7.18	0.00	-764.35	0.00	764.35	3578.41	993.80	3883.78	3420.94	0.21	-0.124	0.000	0.138
16.25	-56.17	-7.18	0.00	-762.56	0.00	762.56	3576.63	992.77	3875.75	3415.68	0.21	-0.126	0.000	0.158
18.00	-54.88	-7.15	0.00	-749.99	0.00	749.99	3564.09	985.58	3819.78	3378.83	0.26	-0.142	0.000	0.157
18.63	-54.41	-7.13	0.00	-745.49	0.00	745.49	3559.52	982.99	3799.73	3365.57	0.28	-0.147	0.000	0.127
18.88	-54.23	-7.13	0.00	-743.70	0.00	743.70	3557.70	981.96	3791.79	3360.30	0.29	-0.149	0.000	0.145
20.00	-53.41	-7.12	0.00	-735.71	0.00	735.71	3549.51	977.36	3756.31	3336.71	0.33	-0.159	0.000	0.145
22.00	-51.94	-7.08	0.00	-721.48	0.00	721.48	3563.12	985.03	3815.51	3376.01	0.40	-0.176	0.000	0.146
24.00	-50.86	-7.04	0.00	-707.33	0.00	707.33	3548.52	976.81	3752.08	3333.89	0.47	-0.192	0.000	0.140
26.00	-49.78	-7.01	0.00	-693.24	0.00	693.24	3533.67	968.58	3689.18	3291.77	0.56	-0.209	0.000	0.139
28.00	-48.70	-6.97	0.00	-679.23	0.00	679.23	3518.56	960.36	3626.81	3249.64	0.65	-0.225	0.000	0.137
30.00	-47.32	-6.92	0.00	-665.29	0.00	665.29	3503.20	952.14	3564.97	3207.53	0.75	-0.241	0.000	0.107
31.00	-46.64	-6.90	0.00	-658.37	0.00	658.37	3495.43	948.03	3534.25	3186.48	0.80	-0.248	0.000	0.123
32.00	-45.95	-6.88	0.00	-651.47	0.00	651.47	3487.59	943.92	3503.66	3165.43	0.85	-0.255	0.000	0.122
33.38	-45.42	-6.85	0.00	-641.97	0.00	641.97	3476.66	938.24	3461.67	3136.39	0.93	-0.266	0.000	0.151
34.00	-45.18	-6.85	0.00	-637.73	0.00	637.73	3471.72	935.70	3442.89	3123.35	0.96	-0.272	0.000	0.150
36.00	-44.42	-6.81	0.00	-624.03	0.00	624.03	3455.59	927.47	3382.65	3081.29	1.08	-0.290	0.000	0.149
38.00	-43.66	-6.78	0.00	-610.41	0.00	610.41	3439.21	919.25	3322.94	3039.26	1.21	-0.309	0.000	0.147
40.00	-42.89	-6.74	0.00	-596.85	0.00	596.85	3422.57	911.03	3263.76	2997.28	1.34	-0.328	0.000	0.145
42.00	-42.13	-6.70	0.00	-583.38	0.00	583.38	3405.68	902.81	3205.11	2955.34	1.48	-0.347	0.000	0.143
44.00	-41.38	-6.66	0.00	-569.98	0.00	569.98	3388.54	894.58	3146.99	2913.44	1.63	-0.365	0.000	0.142
45.16	-40.95	-6.64	0.00	-562.26	0.00	562.26	3378.48	889.81	3113.53	2889.17	1.72	-0.376	0.000	0.102
46.00	-40.63	-6.62	0.00	-556.68	0.00	556.68	3371.14	886.36	3089.41	2871.61	1.79	-0.382	0.000	0.133
48.00	-39.89	-6.58	0.00	-543.44	0.00	543.44	3353.48	878.14	3032.36	2829.83	1.95	-0.400	0.000	0.131
50.00	-39.15	-6.54	0.00	-530.27	0.00	530.27	3335.57	869.92	2975.84	2788.13	2.12	-0.418	0.000	0.129
52.00	-38.07	-6.50	0.00	-517.19	0.00	517.19	3317.41	861.69	2919.85	2746.50	2.30	-0.436	0.000	0.126
54.00	-36.99	-6.46	0.00	-504.19	0.00	504.19	3298.98	853.47	2864.39	2704.94	2.49	-0.453	0.000	0.124
56.00	-35.92	-6.41	0.00	-491.28	0.00	491.28	3316.18	861.14	2916.12	2743.71	2.68	-0.471	0.000	0.125
58.00	-35.19	-6.37	0.00	-478.46	0.00	478.46	3297.74	852.92	2860.70	2702.16	2.88	-0.489	0.000	0.129
60.00	-34.46	-6.32	0.00	-465.73	0.00	465.73	3279.05	844.70	2805.81	2660.71	3.09	-0.507	0.000	0.128
62.00	-33.73	-6.28	0.00	-453.08	0.00	453.08	3260.10	836.48	2751.45	2619.34	3.31	-0.525	0.000	0.126
64.00	-33.00	-6.24	0.00	-440.52	0.00	440.52	3240.90	828.25	2697.62	2578.08	3.53	-0.544	0.000	0.124
66.00	-32.28	-6.19	0.00	-428.04	0.00	428.04	3221.44	820.03	2644.33	2536.92	3.76	-0.562	0.000	0.122
68.00	-31.56	-6.15	0.00	-415.66	0.00	415.66	3201.73	811.81	2591.56	2495.87	4.00	-0.580	0.000	0.120
70.00	-30.84	-6.10	0.00	-403.36	0.00	403.36	3181.76	803.59	2539.33	2454.94	4.25	-0.598	0.000	0.118
72.00	-30.13	-6.06	0.00	-391.16	0.00	391.16	3161.54	795.36	2487.63	2414.13	4.50	-0.617	0.000	0.115
74.00	-29.42	-6.01	0.00	-379.04	0.00	379.04	3141.06	787.14	2436.47	2373.45	4.77	-0.635	0.000	0.113
76.00	-28.71	-5.97	0.00	-367.02	0.00	367.02	3120.33	778.92	2385.83	2332.91	5.04	-0.653	0.000	0.111
78.00	-28.01	-5.92	0.00	-355.09	0.00	355.09	3099.34	770.70	2335.73	2292.51	5.31	-0.671	0.000	0.109
80.00	-27.31	-5.87	0.00	-343.25	0.00	343.25	3078.09	762.47	2286.15	2252.26	5.60	-0.688	0.000	0.107

Calculated Forces

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 97



80.00	-27.31	-5.87	0.00	-343.25	0.00	343.25	2384.58	636.50	1911.75	1750.88	5.60	-0.688	0.000	0.115
82.00	-26.66	-5.83	0.00	-331.50	0.00	331.50	2370.62	629.65	1870.81	1721.73	5.89	-0.706	0.000	0.126
84.00	-26.02	-5.78	0.00	-319.85	0.00	319.85	2356.42	622.80	1830.32	1692.63	6.19	-0.726	0.000	0.123
86.00	-25.37	-5.74	0.00	-308.28	0.00	308.28	2341.95	615.94	1790.27	1663.57	6.50	-0.745	0.000	0.120
88.00	-24.73	-5.69	0.00	-296.81	0.00	296.81	2327.23	609.09	1750.66	1634.56	6.82	-0.765	0.000	0.117
90.00	-24.10	-5.64	0.00	-285.43	0.00	285.43	2312.26	602.24	1711.49	1605.61	7.14	-0.784	0.000	0.114
92.00	-23.46	-5.60	0.00	-274.15	0.00	274.15	2297.03	595.39	1672.77	1576.72	7.47	-0.803	0.000	0.111
94.00	-22.83	-5.55	0.00	-262.95	0.00	262.95	2281.55	588.54	1634.49	1547.90	7.81	-0.821	0.000	0.108
95.00	-22.52	-5.52	0.00	-257.41	0.00	257.41	2273.71	585.11	1615.51	1533.52	7.99	-0.831	0.000	0.107
95.58	-22.27	-5.51	0.00	-254.20	0.00	254.20	2269.13	583.12	1604.56	1525.19	8.09	-0.836	0.000	0.104
95.58	-22.27	-5.51	0.00	-254.20	0.00	254.20	2269.13	583.12	1604.56	1525.19	8.09	-0.836	0.000	0.104
96.00	-22.08	-5.50	0.00	-251.89	0.00	251.89	2265.81	581.68	1596.65	1519.16	8.16	-0.840	0.000	0.176
98.00	-21.23	-5.46	0.00	-240.88	0.00	240.88	2249.81	574.83	1559.25	1490.50	8.52	-0.871	0.000	0.171
100.00	-20.68	-5.41	0.00	-229.97	0.00	229.97	2259.61	579.02	1582.04	1508.00	8.89	-0.901	0.000	0.162
102.00	-20.35	-5.37	0.00	-219.15	0.00	219.15	2243.52	572.17	1544.82	1479.37	9.27	-0.931	0.000	0.157
104.00	-20.03	-5.33	0.00	-208.40	0.00	208.40	2227.17	565.31	1508.04	1450.84	9.67	-0.959	0.000	0.153
106.00	-19.71	-5.29	0.00	-197.74	0.00	197.74	2210.57	558.46	1471.71	1422.40	10.08	-0.986	0.000	0.148
108.00	-19.39	-5.25	0.00	-187.15	0.00	187.15	2193.71	551.61	1435.82	1394.06	10.50	-1.013	0.000	0.143
110.00	-19.02	-5.16	0.00	-176.53	0.00	176.53	2176.60	544.76	1400.37	1365.84	10.93	-1.039	0.000	0.138
112.00	-18.70	-5.12	0.00	-166.20	0.00	166.20	2159.23	537.91	1365.36	1337.73	11.37	-1.065	0.000	0.133
114.00	-18.40	-5.08	0.00	-155.96	0.00	155.96	2141.61	531.05	1330.80	1309.73	11.82	-1.090	0.000	0.128
115.00	-18.24	-5.06	0.00	-150.88	0.00	150.88	2132.70	527.63	1313.68	1295.79	12.05	-1.103	0.000	0.125
115.00	-18.24	-5.06	0.00	-150.88	0.00	150.88	1556.62	422.98	1055.35	949.74	12.05	-1.103	0.000	0.171
116.00	-18.11	-5.04	0.00	-145.82	0.00	145.82	1551.43	420.24	1041.71	940.38	12.28	-1.115	0.000	0.167
118.00	-17.85	-5.00	0.00	-135.73	0.00	135.73	1540.84	414.76	1014.72	921.68	12.76	-1.145	0.000	0.159
120.00	-17.58	-4.96	0.00	-125.73	0.00	125.73	1529.99	409.28	988.07	902.99	13.24	-1.174	0.000	0.151
122.00	-17.32	-4.93	0.00	-115.80	0.00	115.80	1518.89	403.80	961.78	884.33	13.74	-1.201	0.000	0.143
124.00	-17.07	-4.89	0.00	-105.95	0.00	105.95	1507.54	398.32	935.85	865.70	14.25	-1.227	0.000	0.134
126.00	-16.81	-4.85	0.00	-96.18	0.00	96.18	1495.93	392.84	910.27	847.11	14.77	-1.252	0.000	0.125
128.00	-16.56	-4.81	0.00	-86.48	0.00	86.48	1484.06	387.35	885.04	828.56	15.30	-1.276	0.000	0.116
130.00	-16.31	-4.77	0.00	-76.87	0.00	76.87	1471.95	381.87	860.17	810.06	15.84	-1.298	0.000	0.106
131.75	-15.83	-4.65	0.00	-68.53	0.00	68.53	1461.13	377.08	838.70	793.92	16.32	-1.316	0.000	0.097
132.00	-15.80	-4.64	0.00	-67.37	0.00	67.37	1459.57	376.39	835.65	791.62	16.39	-1.318	0.000	0.096
133.00	-11.34	-3.63	0.00	-62.73	0.00	62.73	1453.29	373.65	823.53	782.42	16.66	-1.328	0.000	0.088
134.00	-11.24	-3.61	0.00	-59.09	0.00	59.09	1446.94	370.91	811.49	773.23	16.94	-1.337	0.000	0.084
134.75	-10.96	-3.53	0.00	-56.38	0.00	56.38	1442.14	368.85	802.52	766.35	17.15	-1.343	0.000	0.081
136.00	-10.82	-3.50	0.00	-51.97	0.00	51.97	1434.06	365.43	787.68	754.91	17.51	-1.354	0.000	0.076
138.00	-10.61	-3.46	0.00	-44.96	0.00	44.96	1420.92	359.95	764.23	736.67	18.08	-1.369	0.000	0.069
140.00	-10.40	-3.42	0.00	-38.03	0.00	38.03	1407.52	354.47	741.13	718.50	18.65	-1.383	0.000	0.060
142.00	-6.07	-2.03	0.00	-31.19	0.00	31.19	1393.87	348.98	718.38	700.42	19.24	-1.395	0.000	0.049
144.00	-5.89	-1.99	0.00	-27.14	0.00	27.14	1379.97	343.50	695.99	682.44	19.82	-1.406	0.000	0.044
145.00	-5.80	-1.97	0.00	-25.15	0.00	25.15	1372.92	340.76	684.93	673.48	20.12	-1.411	0.000	0.042
145.00	-5.80	-1.97	0.00	-25.15	0.00	25.15	931.20	332.53	24157.3	604.09	20.12	-1.411	0.000	0.048
146.00	-5.72	-1.95	0.00	-23.19	0.00	23.19	925.24	329.86	23770.3	594.77	20.41	-1.416	0.000	0.045
148.00	-5.54	-1.93	0.00	-19.28	0.00	19.28	913.32	324.51	23005.8	576.36	21.01	-1.425	0.000	0.040
150.00	-5.37	-1.90	0.00	-15.43	0.00	15.43	901.40	319.16	22253.7	558.24	21.61	-1.433	0.000	0.034
150.00	-5.37	-1.90	0.00	-15.43	0.00	15.43	556.65	167.00	10296.1	213.69	21.61	-1.433	0.000	0.082
152.00	-2.90	-1.21	0.00	-11.63	0.00	11.63	556.65	167.00	10296.1	213.69	22.21	-1.439	0.000	0.060
154.00	-2.78	-1.19	0.00	-9.21	0.00	9.21	556.65	167.00	10296.1	213.69	22.82	-1.454	0.000	0.048
156.00	-2.65	-1.17	0.00	-6.84	0.00	6.84	556.65	167.00	10296.1	213.69	23.43	-1.466	0.000	0.037
158.00	-2.53	-1.15	0.00	-4.50	0.00	4.50	556.65	167.00	10296.1	213.69	24.04	-1.475	0.000	0.026
160.00	0.00	-1.08	0.00	-2.20	0.00	2.20	556.65	167.00	10296.1	213.69	24.66	-1.480	0.000	0.010

Final Analysis Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	6/8/2022
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
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Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 125 mph Wind	36.2	0.00	78.19	0.00	0.00	4311.95
0.9D + 1.0W 125 mph Wind	36.1	0.00	58.64	0.00	0.00	4249.48
1.2D + 1.0Di + 1.0Wi 50 mph Wind	7.8	0.00	100.56	0.00	0.00	962.61
1.2D + 1.0Ev + 1.0Eh	0.5	0.00	81.19	0.00	0.00	77.03
0.9D + 1.0Ev + 1.0Eh	0.5	0.00	61.29	0.00	0.00	76.81
1.0D + 1.0W 60 mph Wind	7.5	0.00	65.17	0.00	0.00	881.74

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 125 mph Wind	-24.69	-26.98	0.00	-1234.3	0.00	-1234.3	2265.81	581.68	1596.65	1519.16	96.00	0.826
0.9D + 1.0W 125 mph Wind	-18.10	-26.46	0.00	-1207.5	0.00	-1207.5	2265.81	581.68	1596.65	1519.16	96.00	0.805
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-41.01	-6.13	0.00	-282.20	0.00	-282.20	2265.81	581.68	1596.65	1519.16	96.00	0.204
1.2D + 1.0Ev + 1.0Eh	-22.79	-0.52	0.00	-14.71	0.00	-14.71	2132.70	527.63	1313.68	1295.79	115.00	0.030
0.9D + 1.0Ev + 1.0Eh	-17.27	-0.52	0.00	-14.76	0.00	-14.76	2132.70	527.63	1313.68	1295.79	115.00	0.027
1.0D + 1.0W 60 mph Wind	-22.08	-5.50	0.00	-251.89	0.00	-251.89	2265.81	581.68	1596.65	1519.16	96.00	0.176

Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination				Upper Termination				Max Member			
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio
0.0	16.3	(3) PLT-C10x30(1.5" Hole)	-278.6	-5.57	37.1	367.2	37.1	10	0	356.8	37.1			369.98	505.1	468.64	0.789
0.0	1.0	(3) SOL-2 1/4" William R71	138.6	1.66	25.3	197.5	25.3	8	0	197.1	25.3	8	0	197.47	459.1	468.91	0.430
1.0	18.9	(2) LNP-LP6X100-BW-20T	203.6	4.89	25.3	232.8	25.3	9	0	210.8	22.7	9	9	258.19	297.8	288.75	0.894
1.0	18.9	(1) LNP-LP6x100-B2-20T	-195.1	-4.68	25.3	224.8	25.3	9	0	203.5	22.7	9	9	247.53	297.8	288.75	0.857
16.3	31.0	(3) PLT-C10x15.3(1.5" Hole)	-278.6	-5.57	37.1	216.5	37.1			147.2	37.1	4	4	216.53	257.8	247.80	0.874
18.6	33.4	(3) LNP-LP6X100-G-20TT	205.5	4.93	25.3	227.4	22.7	10	10	214.8	22.7	9	10	253.86	297.8	288.75	0.879
30.0	46.0	(3) PLT-6"X1-1/4"(1.25" Hole)	316.1	5.69	37.1	235.6	33.4	7	8	233.2	33.4	7	8	335.90	413.6	351.56	0.955
45.2	58.0	(3) PLT-7" x 1.25"(1.25"Hole)	-369.7	-4.44	37.1	273.2	33.4	8	13	325.1	37.1			355.01	498.6	426.56	0.832
58.0	78.0	(3) PLT-5.5"x1 1/4"(1.25"hol)	-360.2	-6.48	37.1	277.5	37.1			244.3	37.1			277.48	379.1	314.06	0.884
78.0	95.6	(3) PLT-5.5"x1 1/4"(1.25"hol)	-416.4	-7.50	37.1	244.3	37.1			230.6	33.4	7	10	264.79	379.1	314.06	0.843



Monopole Mat Foundation Design

Date

6/8/2022

Customer Name:	AT&T	TIA Standard:	TIA-222-H
Site Name:		Structure Height (Ft.):	160
Site Number:	CT02049-S-SBA	Engineer Name:	S. Hesselbeir
Engr. Number:	130157	Engineer Login ID:	

Foundation Info Obtained from:

Drawings/Calculations
Monopole
Analysis

Structure Type:

Analysis or Design?

Base Reactions (Factored):

Axial Load (Kips):	78.2	Shear Force (Kips):	36.2
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4311.9

Allowable overstress %: 5.0%

Foundation Geometries:

Diameter of Pier (ft.):	7.0	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	0.50	Depth of Base BG (ft.):	4.8
Length of Pad (ft.):	28	Thickness of Pad (ft.):	3.00
		Width of Pad (ft.):	28

Final Length of pad (ft)	28.0	Final width of pad (ft):	28.0
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Material Properties and Rebar Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	30	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	8	
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):	27	Qty. of Rebar in Pad (W):	27
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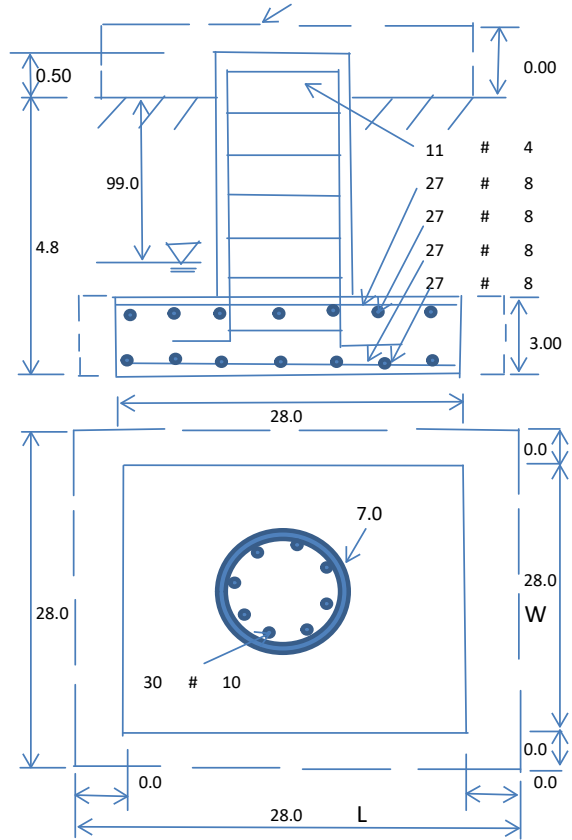
Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	27	Qty. of Rebar in Pad (W):	27
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Apply 1.35 factor for e/w Per G: 1.35

Soil Design Parameters:

Soil Unit Weight (pcf):	115.0	Soil Buoyant Weight:	50.0	Pcf	Angle from Top of Pad:	30
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Bottm of Pad:	25
Ultimate Bearing Pressure (psf):	6000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	Yes	Consider Friction for bearing (Y/N):	Yes		Reduction factor on the maximum soil bearing pressure:	1.00
Consider soil hor. resist. for OTM.:	Yes					



Foundation Analysis and Design:	Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	1341.93	Total Dry Soil Weight (Kips):	154.32	
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00	
Total Effective Soil Weight (Kips):	154.32	Weight from the Concrete Block at Top (K):	0.00	
Total Dry Concrete Volume (cu. Ft.):	2440.51	Total Dry Concrete Weight (Kips):	366.08	
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00	
Total Effective Concrete Weight (Kips):	366.08	Total Vertical Load on Base (Kips):	598.60	

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	2246	< Allowable Factored Soil Bearing (psf):	4500	0.50	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	7651.8	> Design Factored Momont (kips-ft):	4408	0.58	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.74				OK!

Load/
Capacity
Ratio

Check the capacities of Reinforcing Concrete:

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

Load/
Capacity
Ratio

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	1.27	Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	6154.8	> Design Factored Moment (Mu, Kips-F	4395.2	0.71	OK!
Calculated Shear Capacity (Kips):	724.1	> Design Factored Shear (Kips):	36.2	0.05	OK!
Calculated Tension Capacity (Tn, Kips):	2057.4	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	7297.9	> Design Factored Axial Load (Pu Kips):	78.2	0.01	OK!
Moment & Axial Strength Combination:	0.71	OK! Check Tie Spacing (Design/Required):		0.5	OK!
Pier Reinforcement Ratio:	0.007	Reinforcement Ratio is satisfied per ACI			

(2).Concrete Pad:

One-Way Design Shear Capacity (L-Direction, Kips):	897.2	> One-Way Factored Shear (L-D. Kips):	265.9	0.30	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	897.2	> One-Way Factored Shear (W-D., Kips)	265.9	0.30	OK!
One-Way Design Shear Capacity (Corner-Corner, Kips):	870.9	> One-Way Factored Shear (C-C, Kips):	263.5	0.30	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct.):	0.0020	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0020		
Lower Steel Pad Moment Capacity (L-Direction, Kips-ft):	3047.8	> Moment at Bottom (L-Dir. K-Ft):	1640.4	0.54	OK!
Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):	3047.8	> Moment at Bottom (W-Dir. K-Ft):	1640.4	0.54	OK!
Lower Steel Pad Moment Capacity (Corner-Corner, K-ft):	4288.5	> Moment at Bottom (C-C Dir. K-Ft):	2319.9	0.54	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct.):	0.0020	OK! Upper Steel Reinf. Ratio (W-Dir.):	0.0020		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	3047.8	> Moment at the top (L-Dir K-Ft):	701.0	0.23	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	3047.8	> Moment at the top (W-Dir K-Ft):	701.0	0.23	OK!
Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):	4288.5	> Moment at the top (C-C Dir. K-Ft):	655.5	0.15	OK!

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

Moment transferred by punching shear:	1724.8	k-ft.	Max. factored shear stress $v_{u,CD}$:	3.2	Psi
Max. factored shear stress $v_{u,AB}$:	13.4	Psi	Factored shear Strength ϕv_n :	164.3	Psi
Max. factored shear stress v_u :	13.4	Psi	Check Usage of Punching Shear Capacity:	0.08	OK!

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

Overturning moment to be transferred by flexure:	1293.6	k-ft.	Effective Width for resisting OT moment:	16.0	ft.
Calculated number of Rebar in Effective width:	16		Actual number of Rebar in Effective width:	17	
Steel Pad Moment Capacity (L-Direc. Kips-ft):	1914.4	k-ft.	Check Usage of the Flexure Capacity:	0.68	OK!