



NSS **NORTHEAST**
SITE SOLUTIONS
Turnkey Wireless Development

Northeast Site Solutions
Denise Sabo
199 Brickyard Rd Farmington, CT 06032
860-209-4690
denise@northeastsitesolutions.com

November 10, 2017

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Exempt Modification Application
188 Moody Road, Enfield CT 06082
Latitude: 42.002000
Longitude: -72.521694
T-Mobile Site#: CTHA170C-MWAAV

Dear Ms. Bachman:

T-Mobile is requesting to file an exempt modification for an existing 188-foot Monopole tower located at 188 Moody Road, Enfield CT 06082. T-Mobile currently has approval for nine (9) antennas at the 187-foot level of the existing 188-foot tower. The property is owned by Troiano Realty Corp. The tower is owned by SBA Communications. T-Mobile now intends to install one (1) IBR1300 Dish. The new dish would be installed at the 187-foot and level of the tower.

Planned Modifications:
Remove: NONE

Remove and Replace:
NONE

Install New:
(1)IBR1300 Dish
(1)Fiber line
(2)CAT6 Cables

Existing to Remain:
(18) 1-5/8" Coax
(3) TMA
(3) APX18 Antenna – 1900/2100 Mhz
(3) LNX6515 Antenna – 700 Mhz
(3) APX16 Antenna – 1900/2100 Mhz (Previously submitted as future proposed loading)
(3) Bias T

This facility was approved by the CT Siting Council. Per the attached Petition No. 844 – Dated January 16, 2008. Approval for a 10-foot extension to a 180-ft tower. Giving T-Mobile a 188-ft Centerline. Please see attached.



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Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Mayor Scott R. Kaupin, Elected Official and Roger J. O'Brien, Director of Planning for the Town of Enfield, as well as the property owner and the tower.

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

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

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

Sincerely,

Denise Sabo
Mobile: 860-209-4690
Fax: 413-521-0558
Office: 199 Brickyard Rd, Farmington, CT 06032
Email: denise@northeastsitesolutions.com

Attachments

cc: Mayor Scott R. Kaupin - as elected official
Roger J. O'Brien, Director of Planning
Troiano Realty Corp – as property owner
SBA Communications – as tower owner

Exhibit A

Petition No. 844
Omnipoint Communications (T-Mobile)
Enfield, Connecticut
Staff Report
January 16, 2008

On December 20, 2007, the Connecticut Siting Council (Council) received a petition from Omnipoint Communications (T-Mobile) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the ten-foot extension of a telecommunications tower located at 188 Moody Road in Enfield. The petition was field reviewed by Council member Dan Lynch and Council staff member David Martin on January 16, 2008. Karina Fournier, Alex Murillo, and Neil Coon attended the field review representing T-Mobile. Town officials and abutting landowners were notified of the proposal.

The existing monopole tower is 180 feet tall and accommodates antennas of Nextel, Sprint, and Cingular (AT&T) at 180 feet, 170 feet, and 160 feet respectively. T-Mobile seeks to add ten feet onto the tower in order to mount nine antennas at a centerline height of 188 feet. T-Mobile would also install three equipment cabinets on a concrete pad withing the existing facility compound.

The proposed facility would enable T-Mobile to extend its coverage to portions of Routes 190, 192, and 220 in Enfield that are not currently covered. Placing its antennas at the highest available height on the existing tower (150 feet) would not allow T-Mobile to achieve its coverage objectives from this site.

The combined power density of T-Mobile's proposed antennas and the existing antennas would represent approximately 10% of the FCC maximum exposure limit.

The area around the tower is generally flat and characterized by agricultural fields and industrial uses. Because of the flat terrain in the vicinity, the tower is visible for some distance. There is some single-family housing to the east of the tower along a small ridge from which the tower is visible.

T-Mobile's extension would have minimal impact on the surrounding vicinity and would enable the company to fill an existing coverage gap. Staff recommends approval.

Close up view of existing tower



View from east of the tower



View from housing development east of tower



Exhibit B

188 MOODY RD

Location 188 MOODY RD

Mblu 100/ / 0012/ /

Acct# 001600020130

Owner TROIANO REALTY CORP

Assessment \$1,312,310

Appraisal \$1,874,720

PID 2238

Building Count 1

Fire District 3

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$1,168,800	\$705,920	\$1,874,720

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$818,160	\$494,150	\$1,312,310

Owner of Record

Owner TROIANO REALTY CORP

Sale Price \$0

Co-Owner

Certificate 1

Address 0777 ENFIELD ST
ENFIELD, CT 06082

Book & Page 305/ 468

Sale Date

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
TROIANO REALTY CORP	\$0	1	305/ 468	

Building Information

Building 1 : Section 1

Year Built: 1965
Living Area: 10,980
Replacement Cost: \$490,290
Building Percent 37
Good:
Replacement Cost
Less Depreciation: \$181,410

Building Attributes

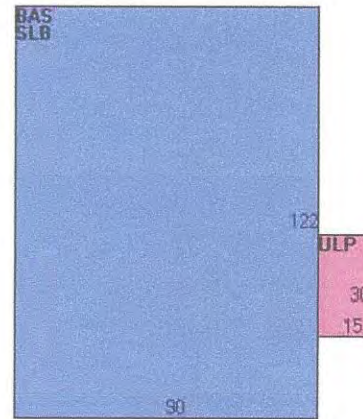
Field	Description
STYLE	Industrial Flex Bldg
MODEL	Ind/Comm
Grade	Average
Stories:	1
Occupancy	3
Exterior Wall 1	Pre-finish Metl
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Metal/Tin
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	Industrial
Total Rooms	
Total Bedrms	
Total Baths	
Total H Bths	
Extra Fixtures	
1st Floor Use:	
Heat/AC	None
Frame Type	Steel
Baths/Plumbing	Average
Ceiling/Wall	None
Rooms/Prtns	Average
Wall Height	15
% Comn Wall	

Building Photo



(<http://images.vgsi.com/photos2/EnfieldCTPhotos//\00\01\95\47>)

Building Layout



Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	10,980	10,980	
SLB	Slab	10,980	0	
ULP	Uncvrd Loading Platform	450	0	
		22,410	10,980	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Land Line Valuation

Use Code 301
Description Industrial
Zone I-1
Neighborhood C500
Alt Land Appr Category No

Size (Acres) 15.1
Frontage
Depth
Assessed Value \$494,150
Appraised Value \$705,920

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV1	Paving	AS	Asphalt	32200 S.F.	\$5,540	1
TNK2	Tank - Oil			500000 GALS	\$240,000	1
FN2	FENCE-6' CHAIN			900 L.F.	\$1,220	1
TWR5	Cell Twr5 Carriers			1 UNITS	\$740,630	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$1,168,800	\$705,920	\$1,874,720
2015	\$1,180,530	\$705,920	\$1,886,450
2014	\$1,180,530	\$705,920	\$1,886,450

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$818,160	\$494,150	\$1,312,310
2015	\$826,370	\$494,150	\$1,320,520
2014	\$826,370	\$494,150	\$1,320,520

Exhibit C

SITE NAME: MOODY RD

188 MOODY RD
ENFIELD, CT 06082

SITE NUMBER: CTHA170C

MICROWAVE INSTALL



T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002



CTHA170C

MOODY RD

188 MOODY RD
ENFIELD, CT 06082

PROJECT NO: 116898.001.01

CHECKED BY: RPS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	11/01/17	FWP	PRELIMINARY
B	11/03/17	BDH	PRELIMINARY
C	11/07/17	BDH	PRELIMINARY
O	11/09/17	BDH	CONSTRUCTION

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/18



11/09/17

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: T-1 REVISION: 0

T-1 0

PROJECT NOTES

GENERAL NOTES:

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

SPECIAL STRUCTURAL NOTES:

TOWER OWNER SHALL PROVIDE GLOBAL STRUCTURAL STABILITY ANALYSIS OF EXISTING ANTENNA SUPPORT STRUCTURE. GENERAL CONTRACTOR SCOPE OF WORK SHALL INCLUDE ALL REQUIRED STRUCTURAL MODIFICATIONS, RE-BUNDLING OF COAXIAL CABLES OR OTHER SPECIAL MODIFICATIONS AS OUTLINED THEREIN.

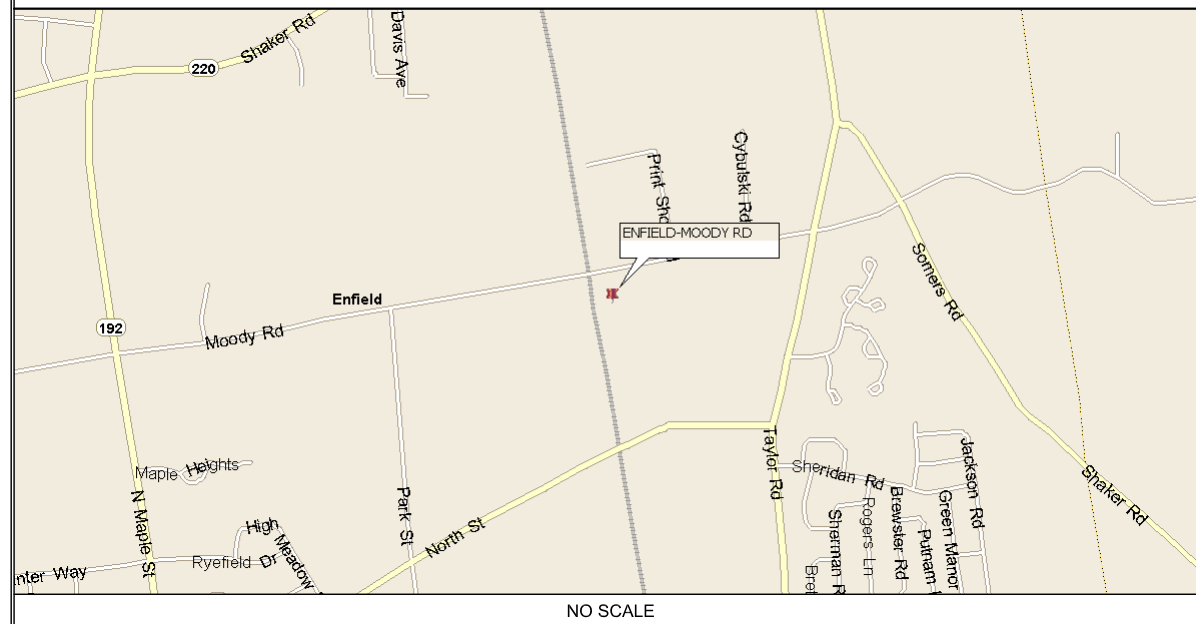
ENGINEER OF RECORD HAS MADE A VISUAL ASSESSMENT ONLY AND HAS DETERMINED THAT THE EXISTING ANTENNA MOUNT SHALL BE REPLACED OR MODIFIED TO ACCOMMODATE ANY ADDITIONAL EQUIPMENT LOAD. STRUCTURAL DESIGNS AND DETAILS AS SHOWN HEREIN FOR STRUCTURAL MODIFICATIONS OF THE EXISTING ANTENNA MOUNT ARE PRELIMINARY ONLY AND FINAL CONSTRUCTION DETAILS ARE SUBJECT TO CHANGE PENDING THE COMPLETION OF AN ANTENNA MOUNT STRUCTURAL ASSESSMENT.

B+T GROUP ASSUMES THAT THE TOWER IS PROPERLY CONSTRUCTED AND MAINTAINED. ALL STRUCTURAL MEMBERS AND THEIR CONNECTIONS ARE ASSUMED TO BE IN GOOD CONDITION AND ARE FREE FROM DEFECTS WITH NO DETERIORATION TO ITS MEMBER CAPACITIES.

T-MOBILE TECHNICIAN SITE SAFETY NOTES

LOCATION	SPECIAL RESTRICTIONS	LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS NOT PERMITTED	DIPLEXERS:	UNRESTRICTED
SECTOR B:	ACCESS NOT PERMITTED	RADIO CABINETS:	UNRESTRICTED
SECTOR C:	ACCESS NOT PERMITTED	PPC DISCONNECT:	UNRESTRICTED
RRH:	ACCESS NOT PERMITTED	MAIN CIRCUIT D/C:	UNRESTRICTED
TMA:	ACCESS NOT PERMITTED	NIU/T DEMARC:	UNRESTRICTED
GPS/LMU:	CAUTION: OSHA APPROVED PORTABLE 8' STEP-LADDER REQUIRED	OTHER/SPECIAL:	NONE

LOCATION MAP



NO SCALE

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY T-MOBILE EQUIPMENT MODERNIZATION
ZONING JURISDICTION: (TOWN OF ENFIELD) BASED ON INFORMATION PROVIDED BY T-MOBILE, REGULATORY COMPLIANCE AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN ELIGIBLE FACILITY UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409 AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW OR ADMINISTRATIVE REVIEW).

SITE ADDRESS: 188 MOODY RD
ENFIELD, CT 06082
LATITUDE: 42.00297222° N
LONGITUDE: 72.52147220° W
JURISDICTION: NATIONAL, STATE & LOCAL CODES & ORDINANCES
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY
TOWER OWNER: NSS 2012 TC ASSETS, LLC
NSS SITE ID: CT46124-A
NSS SITE NAME: ENFIELD-MOODY RD
NSS MANAGER: SHELDON FREINCKLE
(201) 776-8521

APPROVALS

TITLE	SIGNATURE	DATE
PROJECT MANAGER:		
CONSTRUCTION:		
RF ENGINEERING:		
ZONING/SITE ACQ.:		
OPERATIONS:		
TOWER OWNER:		

ACCEPTANCE DOES NOT CONSTITUTE APPROVAL OF DESIGN, CALCULATIONS, ANALYSIS, TEST METHODS OF MATERIALS DEVELOPED OR SELECTED BY THE SUBCONTRACTOR AND DOES NOT RELIEVE SUBCONTRACTOR FROM FULL COMPLIANCE WITH CONTRACTUAL OBLIGATIONS.

DRAWING INDEX

SHEET #	SHEET DESCRIPTION	REV. #
T-1	TITLE SHEET	0
GN-1	GENERAL NOTES	0
C-1	COMPOUND AND ELEVATION PLAN	0
C-2	EXISTING AND PROPOSED ANTENNA PLANS	0



CALL CONNECTICUT ONE CALL
(800) 922-4455
CALL 3 WORKING DAYS
BEFORE YOU DIG!



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) LIGHTING PROTECTION CODE AND GENERAL COMPLIANCE WITH TELECORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATION OR ADVERSE FINDING TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GE'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 & 81) 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 BUS 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 THE BRIDGE AND THE TOWER 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 BONDED FITTINGS OR BY BINDING ACROSS THE DISCONTINUITY WITH 6 AWS COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20' OR MORE OF 1/2" OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BAR TINNED COPPER GROUND WIRE, PER NEC 250.50.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR: NSS COMMUNICATIONS CORP.
 SUBCONTRACTOR: GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER: T-MOBILE
 2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
 4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
 6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
 7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS SPECIFICALLY STATED OTHERWISE.
 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALL 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 AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWINGS. 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 NOTED OTHERWISE, PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WETHER 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 UMS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE SITES."
 17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
 18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW, USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
 19. SINCE THE CELL SITE IS ACTIVE, AL 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 IF 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 2009
 ELECTRICAL CODE: NEC 2014
- SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION; ASD, FOURTEENTH EDITION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G; STRUCTURAL STANDARDS FOR STEEL
 - ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHOD 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	GC	GENERAL CONTRACTOR	REF.	REFERENCE
AWG	AMERICAN WIRE GAUGE	MAX.	MAXIMUM	REQ.	REQUIRED
BCW	BARE COPPER WIRE	MGB	MASTER GROUND BAR	RF	RADIO FREQUENCY
BTS	BASE TRANSCEIVER STATION	MIN.	MINIMUM	T.B.D.	TO BE DETERMINED
(E)	EXISTING	(N)	PROPOSED	T.B.R.	TO BE REMOVED
EG	EQUIPMENT GROUND	N.T.S.	NOT TO SCALE	T.B.R.R.	TO BE REMOVED AND REPLACED
EGR	EQUIPMENT GROUND RING	RE:	REFERENCE	(TYP)	TYPICAL



T-MOBILE NORTHEAST, LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002



CTHA170C

MOODY RD

188 MOODY RD
 ENFIELD, CT 06082

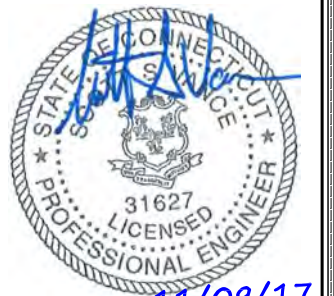
PROJECT NO: 116898.001.01

CHECKED BY: RPS

ISSUED FOR:

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SHEET NUMBER: REVISION:

GN-1 0



T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002



CTHA170C

MOODY RD

188 MOODY RD
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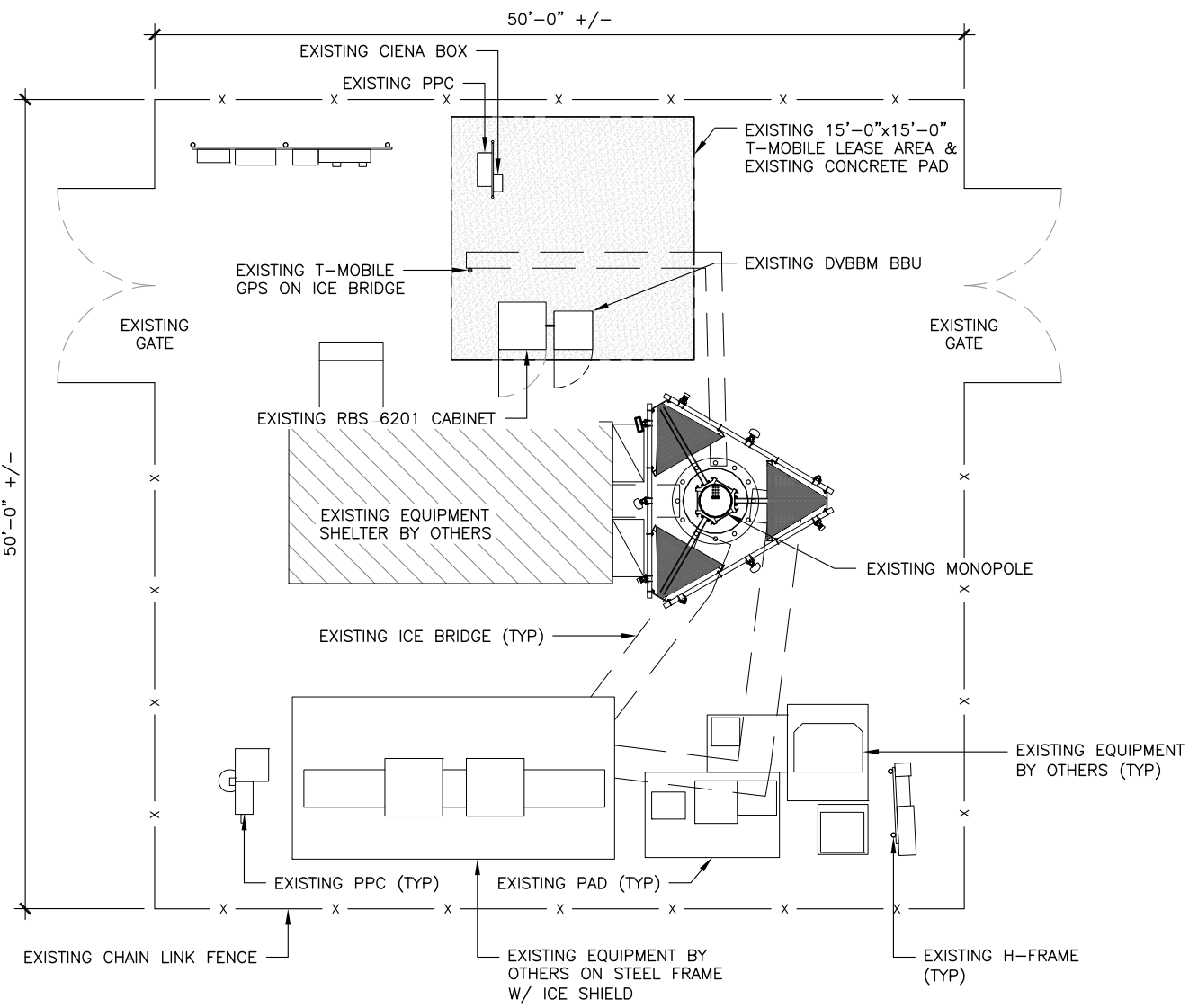
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PEC.0001564
Expires 2/10/18



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SHEET NUMBER: REVISION:

C-1 **0**



1 OVERALL SITE PLAN

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

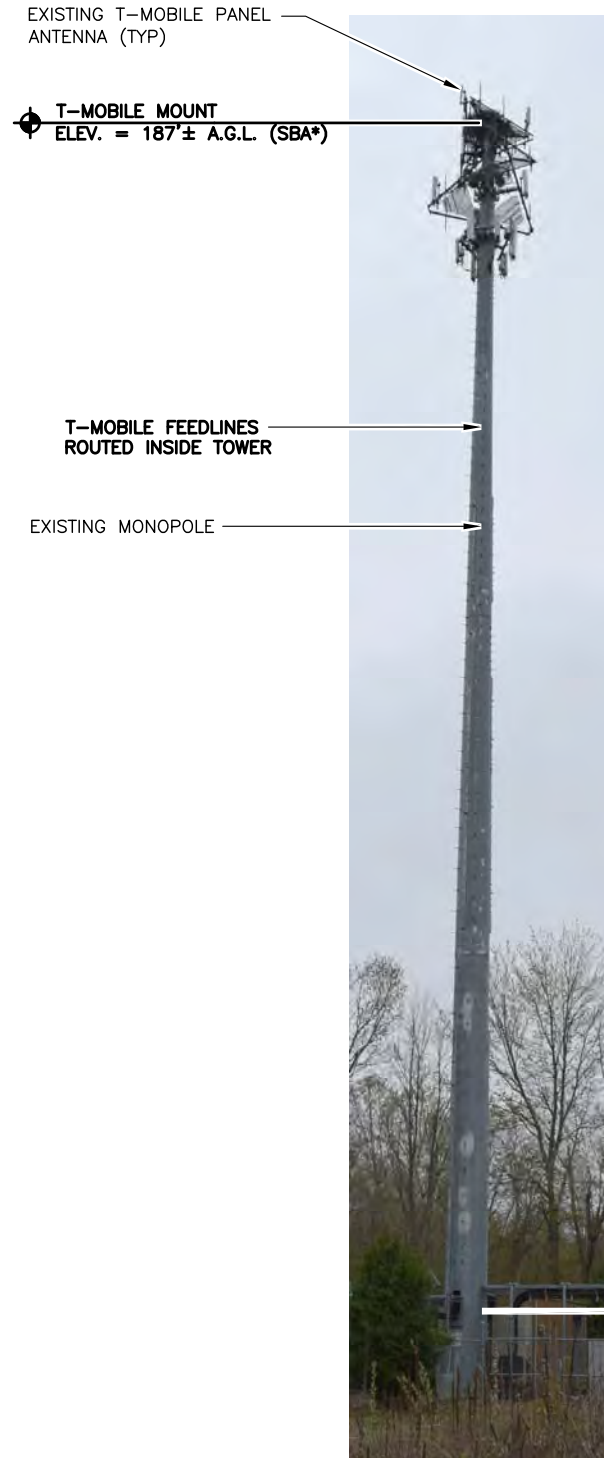


SEE FEEDLINE SCHEDULE.
(REFER TO NSS PROVIDED STRUCTURAL ANALYSIS FOR SPECIAL CABLE INSTALLATION REQUIREMENTS, BUNDLING, SHIELDING, MOUNTING AND RELOCATION OF EXISTING CABLES)

SOURCE: B+T 05-05-2016

2 FEEDLINE PHOTO DETAIL @ TOWER BASE

SCALE: N.T.S.



SOURCE: B+T 05-05-2016

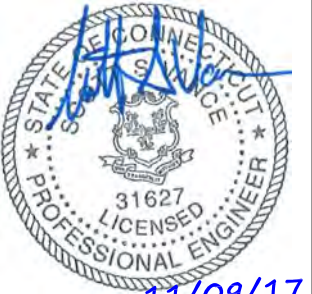
3 ELEVATION PHOTO DETAIL

SCALE: N.T.S.

116898_Enfield-Moody Rd.dwg - Sheet:C-1 - User: bheimbach - Nov 09, 2017 - 2:13pm

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	11/01/17	FWP	PRELIMINARY
B	11/03/17	BDH	PRELIMINARY
C	11/07/17	BDH	PRELIMINARY
O	11/09/17	BDH	CONSTRUCTION



IBR

Intelligent Backhaul Radio

Fastback
NETWORKS
intelligent wireless transport

IBR 1300 Series

Compact Carrier Class Radio & Switch

Fast and Economical Urban Connectivity Anywhere

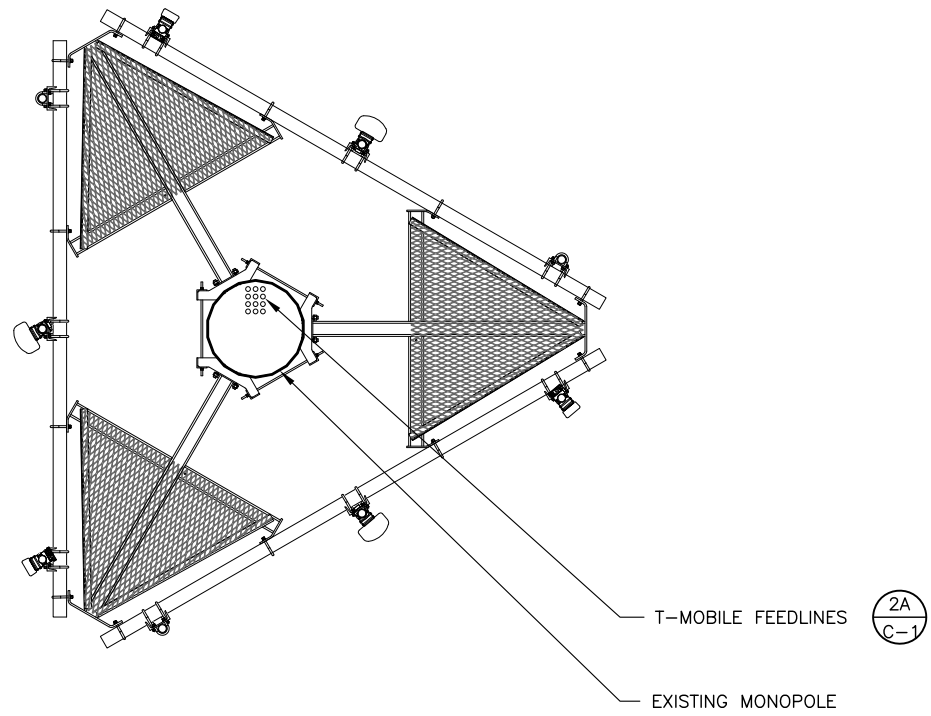
At 900 Mbps and 8x10x4 inches, the highly compact IBR 1300 is the fastest, smallest and most versatile 5GHz radio available. The IBR 1300 delivers higher performance by enabling the full radio spectrum to be available at all times to both the transmit and receive channels, while at the same retaining very low latency. This innovative use of FDD (Frequency Division Duplex) transmission dramatically cuts installation time through immediate alignment of the radio link, and further advances Fastback's Extreme Interference Protection (EIP) for more connections in more locations. In addition, beamforming technology on both transmit and receive channels improves reliability for high density, large scale deployments. And the IBR 1300 is the only radio in its class that can operate using integrated AC power when no other source is available, ideal for small cell deployments in city centers and urban locations using street furniture.

Wireless Extension of Existing Network Architecture

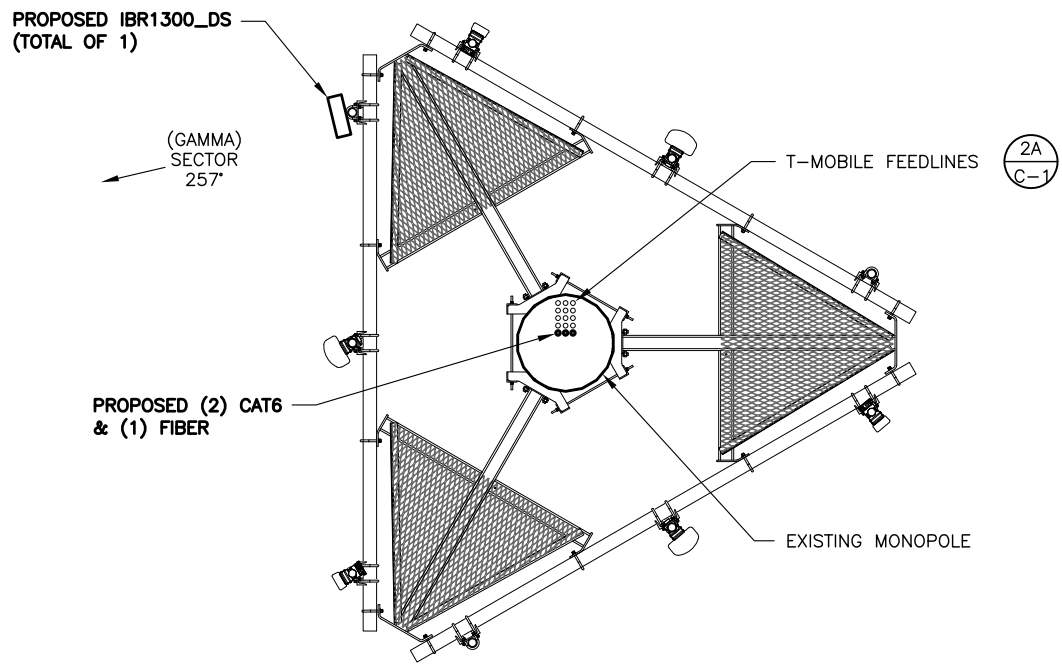
- Fiber performance in any line of sight (AnyLOS)¹
- Scalable in capacity: 900 Mbps at 500m range (NLOS) and 3km range (LOS), 300 Mbps at 13km range (LOS)¹
- <400 µsec latency
- Compact design: 200mm width, 260mm height, 85mm depth
- UNI, NTE-Demarc, SLA on a light pole monitor, manage and deliver an SLA to any location
- Mounts anywhere: light poles, buildings, strand
- Ruggedized, outdoor device: IP66
- Power over Ethernet, or integrated AC power
- Interference Mitigation: Extreme Interference Protection (EIP) technology
- Auto Alignment: Auto discovery & synchronization via innovative antenna system
- Carrier Ethernet services:
 - Transport: full layer 2
 - SLA assurance: via full-featured OAM capability
 - Timing & Synchronization over NLOS link: Packet-based timing over wireless, distributed 1588v2 transparent clock
 - Network synchronization: support in any location
 - Service uptime: carrier-grade physical link and network layer redundancy
 - Security: service protection and reliability

Ease of Deployment Redefined

The discrete form factor and other advances enable the ultimate freedom of location for mounting on any tower, building or street asset anywhere backhaul is required to support carrier grade backhaul service or enterprise connectivity. During installation, an immediate IBR 1300 link can always be achieved without "swapping ends" and incurring the related cost. This simplifies installation, troubleshooting, configuration and cuts the cost of deployment spares in half. The wide azimuthal and vertical apertures of the IBR make installation and operation simple, with quick and uncomplicated alignment.



1A EXISTING ANTENNA PLAN
SCALE: 0' 1' 2' 3' 4' 5'
11x17 SCALE: 1/2"=1'-0"
22x34 SCALE: 1"=1'-0"
N



1B PROPOSED ANTENNA PLAN
SCALE: 0' 1' 2' 3' 4' 5'
11x17 SCALE: 1/2"=1'-0"
22x34 SCALE: 1"=1'-0"
N

2 PROPOSED IBR1300_DS
SCALE: NONE

IBR Intelligent Backhaul Radio



IBR 1300 Series Compact Carrier Class Radio & Switch

Fast and Economical Urban Connectivity Anywhere

At 900 Mbps and 8x10x4 inches, the highly compact IBR 1300 is the fastest, smallest and most versatile 5GHz radio available. The IBR 1300 delivers higher performance by enabling the full radio spectrum to be available at all times to both the transmit and receive channels, while at the same retaining very low latency. This innovative use of FDD (Frequency Division Duplex) transmission dramatically cuts installation time through immediate alignment of the radio link, and further advances Fastback's Extreme Interference Protection (XIP) for more connections in more locations.



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T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002



CTHA170C

MOODY RD

188 MOODY RD
ENFIELD, CT 06082

PROJECT NO: 116898.001.01
CHECKED BY: RPS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	11/01/17	FWP	PRELIMINARY
B	11/03/17	BDH	PRELIMINARY
C	11/07/17	BDH	PRELIMINARY
O	11/09/17	BDH	CONSTRUCTION

B&T ENGINEERING, INC.
PEC.0001564
Expires 2/10/18



11/09/17

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SHEET NUMBER: C-3
REVISION: 0

1 PROPOSED IBR1300_DS
SCALE: NONE

Exhibit D



Tower Engineering Solutions

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

Structural Analysis Report

Existing 188 ft SUMMIT Monopole
Customer Name: SBA Communications Corp
Customer Site Number: CT46124-A
Customer Site Name: Enfield-Moody Rd.
Carrier Name: T-Mobile
Carrier Site ID / Name: CTHA170C
Site Location: 188 Moody Rd
Enfield, Connecticut
Hartford County
Latitude: 42.002000
Longitude: -72.521694

Analysis Result:

Max Structural Usage: 76.0% [Pass]
Max Foundation Usage: 73.2% [Pass]
Report Prepared By : Uma S Atluri





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Introduction

The purpose of this report is to summarize the analysis results on the 188 ft SUMMIT Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis. The analysis was revised to include a change in the T-Mobile's proposed coax.

Sources of Information

Tower Drawings	Summit, Job # 29200-155, dated 2/12/00
Foundation Drawing	Summit, Job # 29200-155, dated 2/12/00
Geotechnical Report	Tectonic, Project # 1170.C054, dated 9/17/98
Modification Drawings	FDH Engineering, Project #1335291400 dated February 20, 2015 Tower Engineering Solutions, Job #19423 dated June 1, 2016

Analysis Criteria

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

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 121.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 94.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	50 mph (3-Sec. Gust) with 1" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	ANSI/TIA/EIA 222-G / 2012 IBC / 2016 Connecticut State Building Code
Exposure Category:	C
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_5 = 0.175$, $S_1 = 0.064$

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	187.0	3	Kathrein 782 11054 - Bias T	Low Profile Platform	(18) 1 5/8"	T-Mobile
2		3	RFS APX16PV-16-PVL-E - Panel			
3		3	RFS APXV18-209014 - Panel			
4		3	Commscope LNX-6515DS-A1M - Panel			
5		12	Ericsson KRY 112 114-1 - TMA			
7	168.0	1	RFS APXV9ERR18-C-A20 - Panel	Low Profile Platform	(3) 1-1/4" Fiber (1) 0.7" Fiber	Sprint
8		2	RFS APXVSP18-C-A20 - Panel			
9		3	RFS APXVTM14-C-120 - Panel			
10		4	ACU-A20-N - RET			
11		3	Alcatel-Lucent 1900MHz RRU			
12		3	Alcatel-Lucent 800 MHz RRH			
13		3	Alcatel-Lucent TD-RRH8x20-25 - RRU			
14		3	Alcatel-Lucent 800 MHz Filter			
15	158.0	3	Powerwave 7770 - Panel	(3) T-Arm	(9) 1 5/8" (1) 3" Innerduct ¹	AT&T
16		1	Raycap DC-48-60-18-8F			
17		6	Powerwave LGP21401 - TMA			
18		2	Powerwave P65-17-XLH-RR - Panel			
19		6	Ericsson RRUS-11			
19		1	Andrew SBNH-1D6565C - Panel			
20	148.0	3	Kathrein 742 213 - Panel	Flush Mount	(6) 1 5/8"	Metro PCS ²

1. (1) 3/8" Fiber and (2) 5/8" DC Power cables are considered to be installed inside (1) 3" innerduct.

2. Lines considered to be installed outside of pole shaft.

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
6	187.0	1	Fastback Networks IBR 1300-Dish	Low Profile Platform	(1) 5/16" Fiber (2) 5/16"-Cat6	T-Mobile

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

Analysis Results

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

	Pole shafts	Anchor Bolts	Base Plate	Flange Connection	Reinforcement
Max. Usage:	68.6%	58.0%	70.3%	30.6%	76.0%
Pass/Fail	Pass	Pass	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)
Analysis Reactions	3593.7	28.0

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

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by ANSI/TIA/EIA 222-G for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.6564 degrees under the operational wind speed as specified in the Analysis Criteria.

Conclusions

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

Standard Conditions

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

Usage Diagram - Max Ratio 68.65% at 0.0ft

Structure: CT46124-A-SBA
Site Name: Enfield-Moody Rd.
Height: 188.00 (ft)
Base Elev: 0.000 (ft)

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

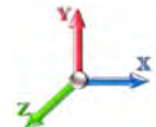
10/26/2017



Page: 1

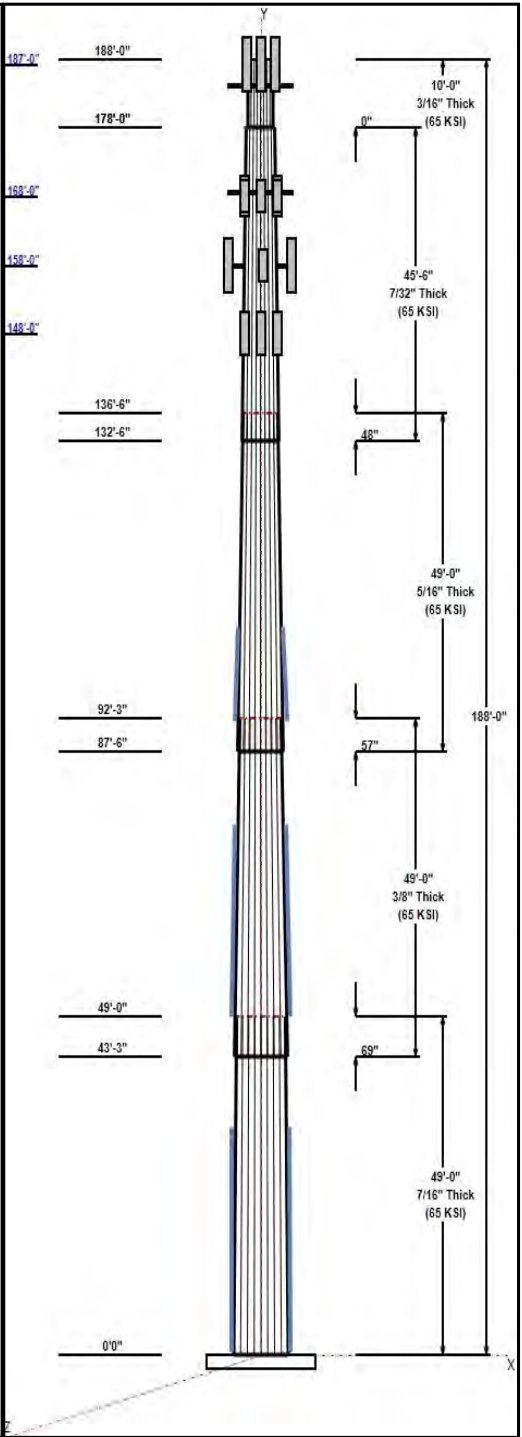
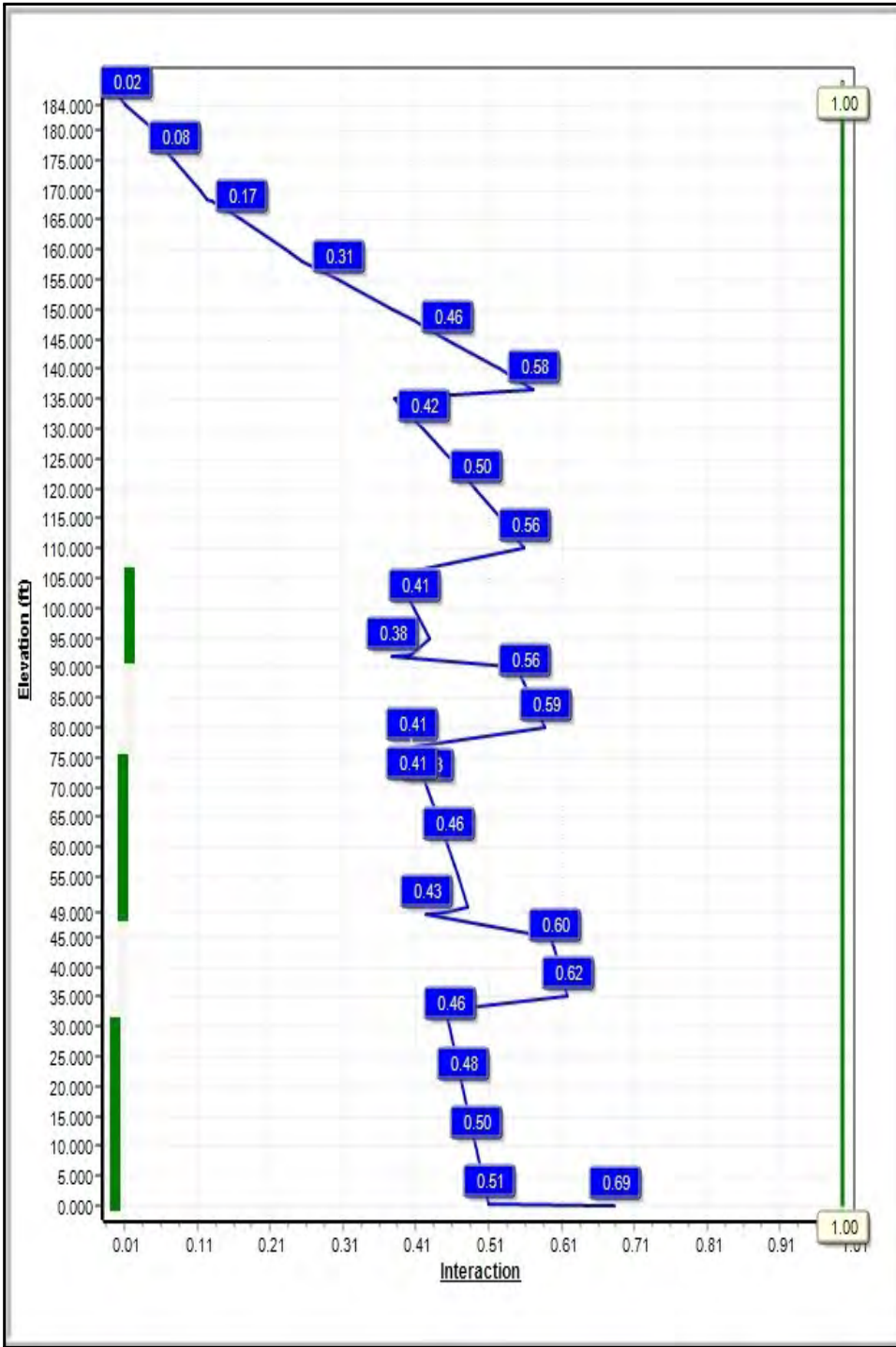
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Load Case : 1.2D + 1.6W 94 mph Wind



Iterations: 29

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Structure: CT46124-A-SBA

Type: Custom
Site Name: Enfield-Moody Rd.
Height: 188.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.00000

10/26/2017

Page: 2



Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	49.00	43.60	51.74	0.438		0.16603	65
2	49.00	37.17	45.31	0.375	Slip	0.16603	65
3	49.00	30.45	38.59	0.313	Slip	0.16603	65
4	45.50	24.00	31.55	0.219	Slip	0.16603	65
5	10.00	22.34	24.00	0.188	Butt	0.00000	65

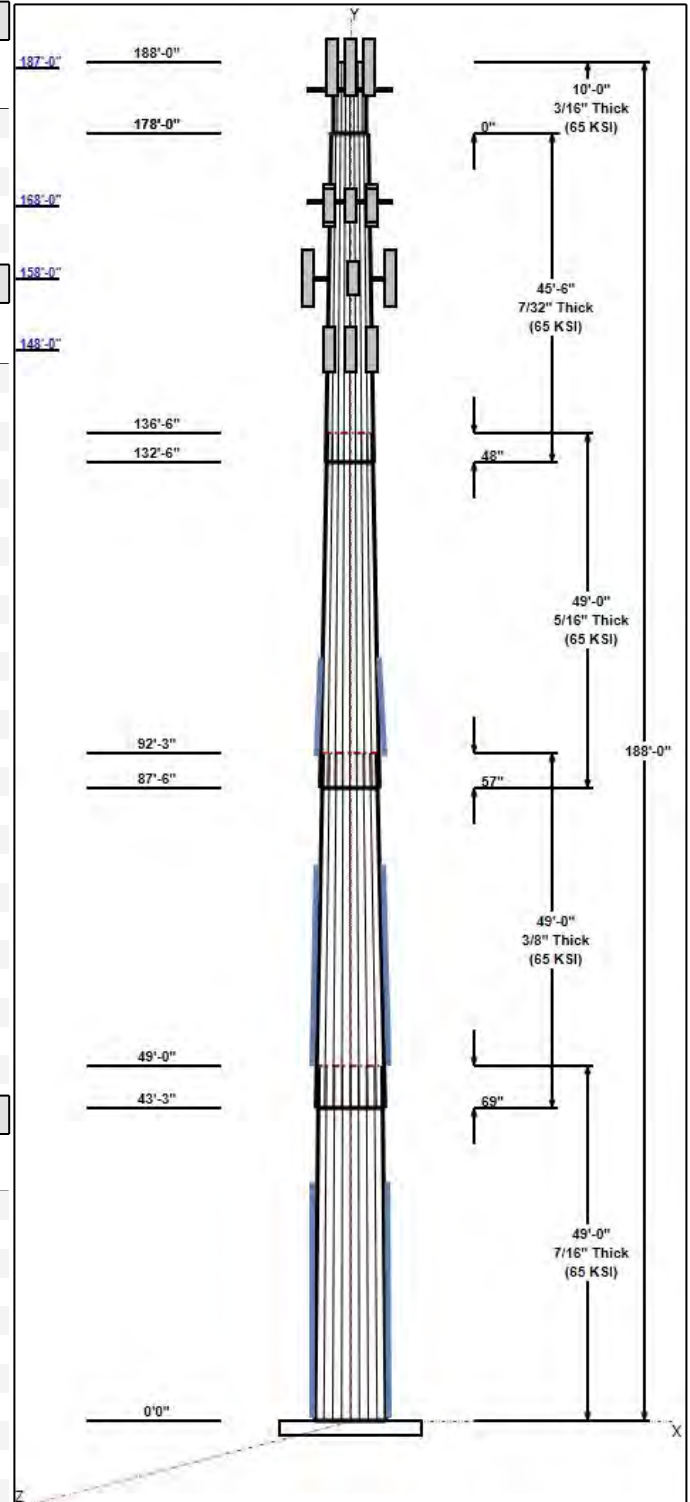
Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
187.00	187.00	3	APX16PV-16-PVL-E	T-Mobile
187.00	187.00	12	KRY 112 144-1	T-Mobile
187.00	187.00	3	APXV18-209014	T-Mobile
187.00	187.00	3	LNx-6515DS-A1M	T-Mobile
187.00	187.00	3	782 11054	T-Mobile
187.00	187.00	1	IBR 1300	T-Mobile
184.00	184.00	1	Low Profile Platform	T-Mobile
168.50	168.50	1	Low Profile Platform	Sprint
168.00	168.00	2	APXVSP18-C-A20	Sprint
168.00	168.00	3	800 MHz Filters	Sprint
168.00	168.00	3	APXVTM14-C-120	Sprint
168.00	168.00	3	1900 MHz RRH	Sprint
168.00	168.00	3	800 MHz RRH	Sprint
168.00	168.00	3	TD-RRHx20-25	Sprint
168.00	168.00	4	ACU-A20-N	Sprint
168.00	168.00	1	APXV9ERR18-C-A20	Sprint
158.00	158.00	3	T-Arm	AT&T
158.00	158.00	2	P65-17-XLH-RR	AT&T
158.00	158.00	6	LGP21401	AT&T
158.00	158.00	6	RRUS-11	AT&T
158.00	158.00	1	SBNH-1D6565C	AT&T
158.00	158.00	1	DC-48-60-18-8F	AT&T
158.00	158.00	3	7770	AT&T
148.00	148.00	1	Flush Mount	Metro PCS
148.00	148.00	3	742 213	Metro PCS

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	187.00	Inside	1 5/8" Coax	T-Mobile
0.00	187.00	Inside	5/16" Cat6	T-Mobile
0.00	187.00	Inside	5/16" Fiber	T-Mobile
0.00	168.00	Inside	0.7" Fiber	Sprint
0.00	168.00	Inside	1-1/4" Fiber	Sprint
0.00	158.00	Inside	1 5/8" Coax	AT&T
0.00	158.00	Inside	3" Innerduct	AT&T
0.00	158.00	Inside	3/8" Fiber	AT&T
0.00	158.00	Inside	5/8" DC	AT&T
0.00	148.00	Outside	1 5/8" Coax	Metro PCS
90.25	107.25	Outside	1.25" Reinforcing plate	
46.50	79.25	Outside	1.25" Reinforcing plate	
0.00	35.50	Outside	1.25" Reinforcing plate	

Anchor Bolts



Structure: CT46124-A-SBA

Type: Custom
Site Name: Enfield-Moody Rd.
Height: 188.00 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.00000

10/26/2017

Page: 3



Qty	Specifications	Grade (ksi)	Arrangement
16	2.25" 18J	75.0	Cluster

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.2500	57.0	50.0	Clipped

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 94 mph Wind	3593.7	28.0	49.1
0.9D + 1.6W 94 mph Wind	3547.5	28.0	36.8
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1241.9	9.4	84.4
1.2D + 1.0E	205.6	1.6	49.1
0.9D + 1.0E	202.8	1.6	36.8
1.0D + 1.0W 60 mph Wind	908.4	7.1	40.9

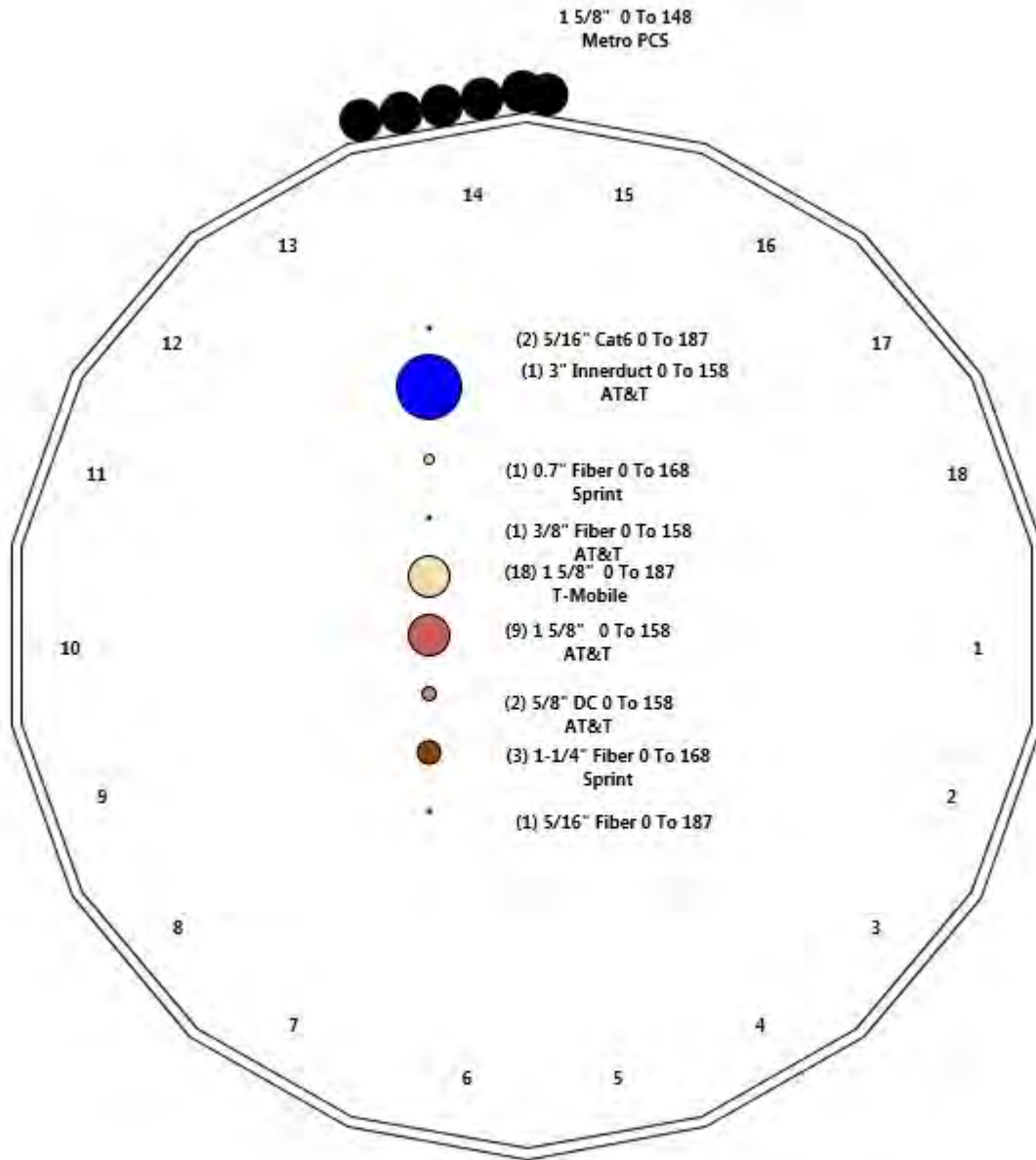
Structure: CT46124-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Enfield-Moody Rd.
Height: 188.00 (ft)

10/26/2017



Page: 4



Shaft Properties

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 5

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	49.000	0.4375	65		0.00	10,936
2	18	49.000	0.3750	65	Slip	69.00	8,110
3	18	49.000	0.3125	65	Slip	57.00	5,657
4	18	45.500	0.2188	65	Slip	48.00	2,963
5	18	10.000	0.1875	65	Flange	0.00	482
Total Shaft Weight:							28,148

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	51.74	0.00	71.24	23688.52	19.44	118.26	43.60	49.00	59.94	14111.8	16.16	99.67	0.166026
2	45.31	43.25	53.48	13643.07	19.89	120.83	37.17	92.25	43.80	7493.55	16.07	99.13	0.166026
3	38.59	87.50	37.96	7026.65	20.36	123.48	30.45	136.50	29.89	3431.02	15.77	97.45	0.166026
4	31.55	132.5	21.76	2699.58	24.02	144.21	24.00	178.00	16.51	1180.03	17.93	109.6	0.166026
5	24.00	178.0	14.17	1015.22	21.16	128.00	22.34	188.00	14.17	1015.22	21.16	119.1	0.000000

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Intermediate Connectors		Termination Connectors			
							Description	Spacing (in)	Description	Spacing (in)	Lower Qty	Upper Qty
0.25	32.83	3	PLT 6"X1-1/4"(1.25" Hole	65	80	0.00	AJM20&sleeve	21.00	AJM20&sleeve	3.00		11
48.92	76.83	3	PLT 5.5"x1 1/4"(1.25"hol	65	80	0.00	AJM20&sleeve	21.00	AJM20&sleeve	3.00	10	10
91.92	105.5	3	PLT 4.5"x 1-1/4"(1.25"ho	65	80	0.00	AJM20&sleeve	24.00	AJM20&sleeve	3.00	7	7

Load Summary

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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	187.00	APX16PV-16-PVL-E	3	39.60	6.03	0.62	230.62	7.534	0.62	0.00	0.00
2	187.00	KRY 112 144-1	12	11.00	0.41	0.67	25.70	1.058	0.67	0.00	0.00
3	187.00	APXV18-209014	3	18.70	3.58	0.74	153.48	4.893	0.74	0.00	0.00
4	187.00	LNx-6515DS-A1M	3	49.80	11.47	0.80	362.69	15.923	0.80	0.00	0.00
5	187.00	782 11054	3	1.80	0.22	0.67	5.18	0.893	0.67	0.00	0.00
6	187.00	IBR 1300	1	8.90	0.67	1.00	33.27	1.143	1.00	0.00	0.00
7	184.00	Low Profile Platform	1	1500.00	22.00	1.00	3281.24	46.035	1.00	0.00	0.00
8	168.50	Low Profile Platform	1	1500.00	22.00	1.00	3265.63	45.824	1.00	0.00	0.00
9	168.00	APXVSP18-C-A20	2	57.00	8.02	0.83	290.10	11.787	0.83	0.00	0.00
10	168.00	800 MHz Filters	3	54.00	2.94	0.67	155.87	4.579	0.67	0.00	0.00
11	168.00	APXVTM14-C-120	3	56.00	6.34	0.79	287.79	7.875	0.79	0.00	0.00
12	168.00	1900 MHz RRH	3	44.00	2.94	0.67	134.92	4.579	0.67	0.00	0.00
13	168.00	800 MHz RRH	3	54.00	2.94	0.67	155.87	4.579	0.67	0.00	0.00
14	168.00	TD-RRH8x20-25	3	70.00	4.05	0.67	230.02	5.176	0.67	0.00	0.00
15	168.00	ACU-A20-N	4	1.00	0.14	1.00	6.79	0.540	1.00	0.00	0.00
16	168.00	APXV9ERR18-C-A20	1	62.00	8.02	0.83	306.73	11.787	0.83	0.00	0.00
17	158.00	T-Arm	3	300.00	8.00	0.67	580.69	17.356	0.67	0.00	0.00
18	158.00	P65-17-XLH-RR	2	59.00	11.44	0.75	349.31	15.775	0.75	0.00	0.00
19	158.00	LGP21401	6	17.50	1.26	0.67	48.20	2.369	0.67	0.00	0.00
20	158.00	RRUS-11	6	50.70	2.52	0.67	179.64	3.419	0.67	0.00	0.00
21	158.00	SBNH-1D6565C	1	66.10	11.47	0.80	374.21	15.827	0.80	0.00	0.00
22	158.00	DC-48-60-18-8F	1	31.80	1.47	1.00	114.66	2.408	1.00	0.00	0.00
23	158.00	7770	3	35.00	5.50	0.73	230.43	6.960	0.73	0.00	0.00
24	148.00	Flush Mount	1	150.00	5.00	1.00	317.32	9.648	1.00	0.00	0.00
25	148.00	742 213	3	22.00	5.12	0.72	188.84	6.883	0.72	0.00	0.00
Totals:			75	6,330.70			18,823.64				

Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	187.00	(18) 1 5/8" Coax	0.00	Inside
0.00	187.00	(2) 5/16" Cat6	0.00	Inside
0.00	187.00	(1) 5/16" Fiber	0.00	Inside
0.00	168.00	(1) 0.7" Fiber	0.00	Inside
0.00	168.00	(3) 1-1/4" Fiber	0.00	Inside
0.00	158.00	(9) 1 5/8" Coax	0.00	Inside
0.00	158.00	(1) 3" Innerduct	0.00	Inside
0.00	158.00	(1) 3/8" Fiber	0.00	Inside
0.00	158.00	(2) 5/8" DC	0.00	Inside
0.00	148.00	(6) 1 5/8" Coax	2.00	Outside
90.25	107.25	(3) 1.25" Reinforcing plate	1.00	Outside
46.50	79.25	(3) 1.25" Reinforcing plate	1.00	Outside
0.00	35.50	(3) 1.25" Reinforcing plate	1.00	Outside

Shaft Section Properties

Structure: CT46124-A-SBA **Code:** EIA/TIA-222-G 10/26/2017
Site Name: Enfield-Moody Rd. **Exposure:** C
Height: 188.00 (ft) **Crest Height:** 0.00
Base Elev: 0.000 (ft) **Site Class:** D - Stiff Soil
Gh: 1.1 **Topography:** 1 **Struct Class:** II Page: 7



Increment Length: 5 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
0.00		0.4375	51.740	71.237	23688.5	19.44	118.26	65	79	0.0				
0.25	RB1	0.4375	51.698	71.180	23631.1	19.43	118.17	65	79	60.6	22.50	7920.2	7920.2	19.1
5.00		0.4375	50.910	70.085	22557.1	19.11	116.37	65	79	1141.6	22.50	7687.0	7687.0	363.7
10.00		0.4375	50.080	68.932	21462.3	18.77	114.47	65	79	1182.6	22.50	7445.4	7445.4	382.8
15.00		0.4375	49.250	67.779	20403.5	18.44	112.57	65	80	1163.0	22.50	7207.7	7207.7	382.8
20.00		0.4375	48.419	66.627	19380.1	18.10	110.67	65	80	1143.4	22.50	6973.8	6973.8	382.8
25.00		0.4375	47.589	65.474	18391.6	17.77	108.78	65	81	1123.8	22.50	6743.8	6743.8	382.8
30.00		0.4375	46.759	64.321	17437.2	17.43	106.88	65	81	1104.2	22.50	6517.7	6517.7	382.8
32.83	RT1	0.4375	46.289	63.669	16911.9	17.25	105.80	65	81	616.3	22.50	6391.4	6391.4	216.7
35.00		0.4375	45.929	63.168	16516.4	17.10	104.98	65	81	468.3				
40.00		0.4375	45.099	62.016	15628.6	16.77	103.08	65	82	1064.9				
43.25	Bot - Section 2	0.4375	44.559	61.267	15069.0	16.55	101.85	65	82	681.7				
45.00		0.4375	44.269	60.863	14773.3	16.43	101.19	65	82	681.1				
48.92	RB2	0.4375	43.618	59.959	14124.9	16.17	99.70	65	82	1509.4	20.63	5392.4	5392.4	275.1
49.00	Top - Section 1	0.3750	44.355	52.345	12791.9	19.45	118.28	65	79	30.6	20.63	5389.3	5389.3	5.6
50.00		0.3750	44.189	52.147	12647.5	19.37	117.84	65	79	177.8	20.63	5350.3	5350.3	70.2
55.00		0.3750	43.359	51.159	11942.2	18.98	115.62	65	79	878.8	20.63	5157.6	5157.6	350.9
60.00		0.3750	42.528	50.171	11263.5	18.59	113.41	65	80	862.0	20.63	4968.5	4968.5	350.9
65.00		0.3750	41.698	49.183	10611.1	18.20	111.20	65	80	845.2	20.63	4782.8	4782.8	350.9
70.00		0.3750	40.868	48.195	9984.4	17.81	108.98	65	80	828.4	20.63	4600.8	4600.8	350.9
75.00		0.3750	40.038	47.207	9382.8	17.42	106.77	65	81	811.6	20.63	4422.3	4422.3	350.9
76.83	RT2	0.3750	39.734	46.846	9168.9	17.27	105.96	65	81	292.8	20.63	4357.8	4357.8	128.4
80.00		0.3750	39.208	46.219	8805.9	17.03	104.55	65	81	501.9				
85.00		0.3750	38.378	45.231	8253.2	16.63	102.34	65	82	778.0				
87.50	Bot - Section 3	0.3750	37.963	44.737	7985.7	16.44	101.23	65	82	382.7				
90.00		0.3750	37.548	44.243	7724.1	16.24	100.13	65	82	699.7				
91.92	RB3	0.3750	37.229	43.864	7527.1	16.09	99.28	65	82	532.1	16.88	3240.8	3240.8	110.2
92.25	Top - Section 2	0.3125	37.799	37.181	6601.2	19.92	120.96	65	78	91.0	16.88	3231.8	3231.8	18.9
95.00		0.3125	37.343	36.728	6362.9	19.66	119.50	65	78	345.8	16.88	3157.0	3157.0	157.9
100.00		0.3125	36.512	35.904	5944.5	19.19	116.84	65	79	617.9	16.88	3023.3	3023.3	287.1
105.00		0.3125	35.682	35.081	5544.9	18.72	114.18	65	79	603.9	16.88	2892.5	2892.5	287.1
105.58	RT3	0.3125	35.586	34.986	5499.7	18.67	113.88	65	79	69.1	16.88	2877.5	2877.5	33.3
110.00		0.3125	34.852	34.258	5163.6	18.25	111.53	65	80	520.7				
115.00		0.3125	34.022	33.434	4800.1	17.79	108.87	65	80	575.9				
120.00		0.3125	33.192	32.611	4454.2	17.32	106.21	65	81	561.8				
125.00		0.3125	32.362	31.788	4125.2	16.85	103.56	65	82	547.8				
130.00		0.3125	31.532	30.964	3812.9	16.38	100.90	65	82	533.8				
132.50	Bot - Section 4	0.3125	31.117	30.553	3662.8	16.15	99.57	65	82	261.7				
135.00		0.3125	30.702	30.141	3516.8	15.91	98.24	65	83	442.1				
136.50	Top - Section 3	0.2188	30.890	21.300	2531.6	23.48	141.18	65	74	262.4				
140.00		0.2188	30.309	20.896	2390.4	23.01	138.52	65	74	251.3				
145.00		0.2188	29.479	20.320	2197.9	22.35	134.73	65	75	350.6				
148.00		0.2188	28.981	19.974	2087.6	21.94	132.45	65	76	205.7				
150.00		0.2188	28.649	19.743	2016.1	21.68	130.94	65	76	135.1				
155.00		0.2188	27.819	19.167	1844.6	21.01	127.14	65	77	331.0				
158.00		0.2188	27.321	18.821	1746.6	20.61	124.87	65	77	193.9				
160.00		0.2188	26.988	18.590	1683.1	20.34	123.35	65	77	127.3				
165.00		0.2188	26.158	18.014	1531.4	19.67	119.55	65	78	311.4				
168.00		0.2188	25.660	17.668	1444.8	19.27	117.28	65	79	182.1				
168.50		0.2188	25.577	17.610	1430.7	19.20	116.90	65	79	30.0				

Increment Length: 5 (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)
170.00		0.2188	25.328	17.437	1389.0	19.00	115.76	65	79	89.4				
175.00		0.2188	24.498	16.861	1255.7	18.33	111.97	65	80	291.8				
178.00	Top - Section 4	0.2188	24.000	16.515	1180.0	17.93	109.69	65	80	170.4				
178.00	Bot - Section 5	0.1875	24.000	14.171	1015.2	20.92	128.00	65	77					
180.00		0.1875	24.000	14.171	1015.2	21.16	128.00	65	77	96.4				
184.00		0.1875	24.000	14.171	1015.2	21.16	128.00	65	77	192.9				
185.00		0.1875	24.000	14.171	1015.2	21.16	128.00	65	77	48.2				
187.00		0.1875	24.000	14.171	1015.2	21.16	128.00	65	77	96.4				
188.00		0.1875	24.000	14.171	1015.2	21.16	128.00	65	77	48.2				
Total Weight										28148.4	5642.0			

Wind Loading - Shaft

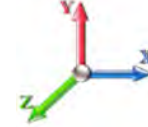
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.2D + 1.6W 94 mph Wind

Iterations 29

Dead Load Factor 1.20
Wind Load Factor 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	18.266	20.09	379.43	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
0.25	RB1	1.00	0.85	18.266	20.09	379.13	0.650	0.000	0.25	1.094	0.71	22.9	0.0	72.7
5.00		1.00	0.85	18.266	20.09	373.34	0.650	0.000	4.75	20.621	13.40	430.9	0.0	1370.0
10.00		1.00	0.85	18.266	20.09	367.25	0.650	0.000	5.00	21.364	13.89	446.4	0.0	1419.1
15.00		1.00	0.85	18.266	20.09	361.17	0.650	0.000	5.00	21.013	13.66	439.1	0.0	1395.6
20.00		1.00	0.90	19.381	21.32	365.76	0.650	0.000	5.00	20.662	13.43	458.1	0.0	1372.1
25.00		1.00	0.95	20.313	22.34	368.03	0.650	0.000	5.00	20.310	13.20	472.0	0.0	1348.5
30.00		1.00	0.98	21.108	23.22	368.62	0.650	0.000	5.00	19.959	12.97	482.0	0.0	1325.0
32.83	RT1	1.00	1.00	21.512	23.66	368.39	0.650	0.000	2.83	11.141	7.24	274.2	0.0	739.5
35.00		1.00	1.01	21.804	23.98	367.99	0.650	0.000	2.17	8.467	5.50	211.2	0.0	561.9
40.00		1.00	1.04	22.426	24.67	366.46	0.650	0.000	5.00	19.257	12.52	494.0	0.0	1277.9
43.25	Bot - Section 2	1.00	1.06	22.798	25.08	365.06	0.650	0.000	3.25	12.329	8.01	321.5	0.0	818.0
45.00		1.00	1.07	22.989	25.29	364.20	0.650	0.000	1.75	6.688	4.35	175.9	0.0	817.3
48.92	RB2	1.00	1.09	23.397	25.74	362.02	0.650	0.000	3.92	14.825	9.64	396.8	0.0	1811.3
49.00	Top - Section 1	1.00	1.09	23.405	25.75	361.97	0.650	0.000	0.08	0.300	0.20	8.0	0.0	36.7
50.00		1.00	1.09	23.504	25.85	367.60	0.650	0.000	1.00	3.746	2.44	100.7	0.0	213.3
55.00		1.00	1.12	23.981	26.38	364.33	0.650	0.000	5.00	18.520	12.04	508.1	0.0	1054.6
60.00		1.00	1.14	24.424	26.87	360.64	0.650	0.000	5.00	18.169	11.81	507.7	0.0	1034.4
65.00		1.00	1.16	24.839	27.32	356.59	0.650	0.000	5.00	17.818	11.58	506.3	0.0	1014.2
70.00		1.00	1.17	25.230	27.75	352.23	0.650	0.000	5.00	17.467	11.35	504.1	0.0	994.1
75.00		1.00	1.19	25.599	28.16	347.59	0.650	0.000	5.00	17.115	11.13	501.2	0.0	973.9
76.83	RT2	1.00	1.20	25.729	28.30	345.83	0.650	0.000	1.83	6.176	4.01	181.8	0.0	351.4
80.00		1.00	1.21	25.949	28.54	342.70	0.650	0.000	3.17	10.588	6.88	314.3	0.0	602.3
85.00		1.00	1.22	26.282	28.91	337.60	0.650	0.000	5.00	16.413	10.67	493.5	0.0	933.6
87.50	Bot - Section 3	1.00	1.23	26.443	29.09	334.97	0.650	0.000	2.50	8.075	5.25	244.3	0.0	459.2
90.00		1.00	1.24	26.600	29.26	332.29	0.650	0.000	2.50	8.119	5.28	247.1	0.0	839.6
91.92	RB3	1.00	1.24	26.719	29.39	330.20	0.650	0.000	1.92	6.176	4.01	188.8	0.0	638.5
92.25	Top - Section 2	1.00	1.24	26.739	29.41	329.84	0.650	0.000	0.33	1.056	0.69	32.3	0.0	109.2
95.00		1.00	1.25	26.905	29.60	332.36	0.650	0.000	2.75	8.743	5.68	269.1	0.0	415.0
100.00		1.00	1.27	27.197	29.92	326.73	0.650	0.000	5.00	15.624	10.16	486.1	0.0	741.5
105.00		1.00	1.28	27.478	30.23	320.94	0.650	0.000	5.00	15.273	9.93	480.1	0.0	724.6
105.58	RT3	1.00	1.28	27.510	30.26	320.26	0.650	0.000	0.58	1.749	1.14	55.0	0.0	83.0
110.00		1.00	1.29	27.748	30.52	315.02	0.650	0.000	4.42	13.172	8.56	418.1	0.0	624.9
115.00		1.00	1.30	28.009	30.81	308.96	0.650	0.000	5.00	14.570	9.47	466.9	0.0	691.0
120.00		1.00	1.32	28.261	31.09	302.77	0.650	0.000	5.00	14.219	9.24	459.7	0.0	674.2
125.00		1.00	1.33	28.505	31.36	296.47	0.650	0.000	5.00	13.868	9.01	452.2	0.0	657.4
130.00		1.00	1.34	28.742	31.62	290.06	0.650	0.000	5.00	13.516	8.79	444.4	0.0	640.6
132.50	Bot - Section 4	1.00	1.34	28.857	31.74	286.82	0.650	0.000	2.50	6.627	4.31	218.8	0.0	314.0
135.00		1.00	1.35	28.971	31.87	283.55	0.650	0.000	2.50	6.631	4.31	219.8	0.0	530.5
136.50	Top - Section 3	1.00	1.35	29.038	31.94	281.57	0.650	0.000	1.50	3.937	2.56	130.8	0.0	314.8
140.00		1.00	1.36	29.193	32.11	281.00	0.650	0.000	3.50	9.063	5.89	302.7	0.0	301.5
145.00		1.00	1.37	29.410	32.35	274.31	0.650	0.000	5.00	12.648	8.22	425.5	0.0	420.7
148.00	Appurtenance(s)	1.00	1.37	29.537	32.49	270.26	0.650	0.000	3.00	7.420	4.82	250.7	0.0	246.8
150.00		1.00	1.38	29.621	32.58	267.54	0.650	0.000	2.00	4.877	3.17	165.2	0.0	162.2
155.00		1.00	1.39	29.826	32.81	260.69	0.650	0.000	5.00	11.946	7.76	407.6	0.0	397.2
158.00	Appurtenance(s)	1.00	1.39	29.946	32.94	256.54	0.650	0.000	3.00	6.999	4.55	239.8	0.0	232.7
160.00		1.00	1.40	30.026	33.03	253.75	0.650	0.000	2.00	4.596	2.99	157.9	0.0	152.8

Wind Loading - Shaft

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 10



165.00	1.00	1.41	30.221	33.24	246.75	0.650	0.000	5.00	11.243	7.31	388.7	0.0	373.7	
168.00 Appurtenance(s)	1.00	1.41	30.336	33.37	242.51	0.650	0.000	3.00	6.577	4.28	228.3	0.0	218.5	
168.50 Appurtenance(s)	1.00	1.41	30.355	33.39	241.80	0.650	0.000	0.50	1.084	0.70	37.6	0.0	36.0	
170.00	1.00	1.42	30.411	33.45	239.67	0.650	0.000	1.50	3.231	2.10	112.4	0.0	107.3	
175.00	1.00	1.42	30.598	33.66	232.52	0.650	0.000	5.00	10.541	6.85	369.0	0.0	350.1	
178.00 Top - Section 4	1.00	1.43	30.707	33.78	228.20	0.650	0.000	3.00	6.156	4.00	216.2	0.0	204.4	
180.00	1.00	1.43	30.780	33.86	228.47	0.650	0.000	2.00	4.062	2.64	143.0	0.0	115.7	
184.00 Appurtenance(s)	1.00	1.44	30.922	34.01	229.00	0.650	0.000	4.00	8.123	5.28	287.4	0.0	231.5	
185.00	1.00	1.44	30.958	34.05	229.13	0.650	0.000	1.00	2.031	1.32	71.9	0.0	57.9	
187.00 Appurtenance(s)	1.00	1.44	31.028	34.13	229.39	0.650	0.000	2.00	4.062	2.64	144.2	0.0	115.7	
188.00	1.00	1.45	31.063	34.17	229.52	0.650	0.000	1.00	2.031	1.32	72.2	0.0	57.9	
Totals:								188.00			17,084.4			33,778.1

Discrete Appurtenance Forces

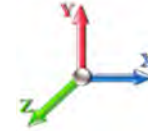
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 94 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 29

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	187.00	APXV18-209014	3	31.028	34.131	0.59	0.80	6.36	67.32	0.000	0.000	347.21	0.00	0.00
2	187.00	APX16PV-16-PVL-E	3	31.028	34.131	0.50	0.80	8.97	142.56	0.000	0.000	489.99	0.00	0.00
3	187.00	KRY 112 144-1	12	31.028	34.131	0.54	0.80	2.64	158.40	0.000	0.000	144.01	0.00	0.00
4	187.00	IBR 1300	1	31.028	34.131	0.80	0.80	0.54	10.68	0.000	0.000	29.27	0.00	0.00
5	187.00	LNx-6515DS-A1M	3	31.028	34.131	0.64	0.80	22.02	179.28	0.000	0.000	1202.62	0.00	0.00
6	187.00	782 11054	3	31.028	34.131	0.54	0.80	0.35	6.48	0.000	0.000	19.32	0.00	0.00
7	184.00	Low Profile Platform	1	30.922	34.015	1.00	1.00	22.00	1800.00	0.000	0.000	1197.32	0.00	0.00
8	168.50	Low Profile Platform	1	30.355	33.390	1.00	1.00	22.00	1800.00	0.000	0.000	1175.34	0.00	0.00
9	168.00	APXV9ERR18-C-A20	1	30.336	33.369	0.66	0.80	5.33	74.40	0.000	0.000	284.32	0.00	0.00
10	168.00	ACU-A20-N	4	30.336	33.369	0.80	0.80	0.45	4.80	0.000	0.000	23.92	0.00	0.00
11	168.00	TD-RRH8x20-25	3	30.336	33.369	0.54	0.80	6.51	252.00	0.000	0.000	347.70	0.00	0.00
12	168.00	800 MHz RRH	3	30.336	33.369	0.54	0.80	4.73	194.40	0.000	0.000	252.41	0.00	0.00
13	168.00	1900 MHz RRH	3	30.336	33.369	0.54	0.80	4.73	158.40	0.000	0.000	252.41	0.00	0.00
14	168.00	800 MHz Filters	3	30.336	33.369	0.54	0.80	4.73	194.40	0.000	0.000	252.41	0.00	0.00
15	168.00	APXVSP18-C-A20	2	30.336	33.369	0.66	0.80	10.65	136.80	0.000	0.000	568.64	0.00	0.00
16	168.00	APXVTM14-C-120	3	30.336	33.369	0.63	0.80	12.02	201.60	0.000	0.000	641.79	0.00	0.00
17	158.00	LGP21401	6	29.946	32.941	0.54	0.80	4.05	126.00	0.000	0.000	213.57	0.00	0.00
18	158.00	T-Arm	3	29.946	32.941	0.50	0.75	12.06	1080.00	0.000	0.000	635.63	0.00	0.00
19	158.00	P65-17-XLH-RR	2	29.946	32.941	0.60	0.80	13.73	141.60	0.000	0.000	723.54	0.00	0.00
20	158.00	SBNH-1D6565C	1	29.946	32.941	0.64	0.80	7.34	79.32	0.000	0.000	386.90	0.00	0.00
21	158.00	RRUS-11	6	29.946	32.941	0.54	0.80	8.10	365.04	0.000	0.000	427.14	0.00	0.00
22	158.00	DC-48-60-18-8F	1	29.946	32.941	0.80	0.80	1.18	38.16	0.000	0.000	61.98	0.00	0.00
23	158.00	7770	3	29.946	32.941	0.58	0.80	9.64	126.00	0.000	0.000	507.87	0.00	0.00
24	148.00	742 213	3	29.537	32.491	0.58	0.80	8.85	79.20	0.000	0.000	459.93	0.00	0.00
25	148.00	Flush Mount	1	29.537	32.491	1.00	1.00	5.00	180.00	0.000	0.000	259.93	0.00	0.00

Totals: 7,596.84

10,905.18

Total Applied Force Summary

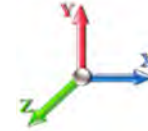
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 94 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 29

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
0.25		22.86	83.95	0.00	0.00
5.00		430.90	1583.95	0.00	0.00
10.00		446.42	1644.37	0.00	0.00
15.00		439.09	1620.83	0.00	0.00
20.00		458.10	1597.30	0.00	0.00
25.00		471.97	1573.77	0.00	0.00
30.00		481.96	1550.23	0.00	0.00
32.83		274.19	867.00	0.00	0.00
35.00		211.19	659.70	0.00	0.00
40.00		494.03	1503.16	0.00	0.00
43.25		321.53	964.44	0.00	0.00
45.00		175.89	896.13	0.00	0.00
48.92		396.80	1987.89	0.00	0.00
49.00		8.04	40.29	0.00	0.00
50.00		100.73	258.39	0.00	0.00
55.00		508.09	1279.83	0.00	0.00
60.00		507.67	1259.66	0.00	0.00
65.00		506.31	1239.49	0.00	0.00
70.00		504.14	1219.31	0.00	0.00
75.00		501.23	1199.14	0.00	0.00
76.83		181.80	433.84	0.00	0.00
80.00		314.31	745.13	0.00	0.00
85.00		493.49	1158.80	0.00	0.00
87.50		244.27	571.83	0.00	0.00
90.00		247.08	952.23	0.00	0.00
91.92		188.78	725.03	0.00	0.00
92.25		32.31	124.07	0.00	0.00
95.00		269.10	538.85	0.00	0.00
100.00		486.11	966.70	0.00	0.00
105.00		480.09	949.89	0.00	0.00
105.58		55.04	109.10	0.00	0.00
110.00		418.15	823.98	0.00	0.00
115.00		466.86	916.26	0.00	0.00
120.00		459.71	899.45	0.00	0.00
125.00		452.23	882.64	0.00	0.00
130.00		444.43	865.83	0.00	0.00
132.50		218.76	426.61	0.00	0.00
135.00		219.78	643.08	0.00	0.00
136.50		130.77	382.42	0.00	0.00
140.00		302.66	459.19	0.00	0.00
145.00		425.54	645.98	0.00	0.00
148.00	(4) attachments	970.59	641.14	0.00	0.00
150.00		165.25	237.30	0.00	0.00
155.00		407.59	585.00	0.00	0.00
158.00	(22) attachments	3196.41	2301.47	0.00	0.00
160.00		157.86	203.59	0.00	0.00

Total Applied Force Summary

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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165.00		388.70	500.74	0.00	0.00
168.00	(22) attachments	2851.86	1511.60	0.00	0.00
168.50	(1) attachments	1212.98	1847.39	0.00	0.00
170.00		112.40	141.46	0.00	0.00
175.00		368.96	463.88	0.00	0.00
178.00		216.25	272.68	0.00	0.00
180.00		143.02	161.23	0.00	0.00
184.00	(1) attachments	1484.68	2122.47	0.00	0.00
185.00		71.92	80.62	0.00	0.00
187.00	(25) attachments	2376.59	725.95	0.00	0.00
188.00		72.17	57.86	0.00	0.00
	Totals:	27,989.63	49,104.12	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

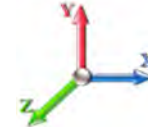
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 94 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 29

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
0.25	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.062	0.000	18.266	0.00	1.87
0.25	1.25" Reinforcing	Yes	0.25	0.000	1.25	0.03	0.00	0.062	0.000	18.266	0.00	0.00
5.00	1 5/8" Coax	Yes	4.75	0.000	1.98	0.78	0.00	0.062	0.000	18.266	0.00	35.57
5.00	1.25" Reinforcing	Yes	4.75	0.000	1.25	0.49	0.00	0.062	0.000	18.266	0.00	0.00
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.063	0.000	18.266	0.00	37.44
10.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.063	0.000	18.266	0.00	0.00
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.064	0.000	18.266	0.00	37.44
15.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.064	0.000	18.266	0.00	0.00
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.065	0.000	19.381	0.00	37.44
20.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.065	0.000	19.381	0.00	0.00
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.066	0.000	20.313	0.00	37.44
25.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.066	0.000	20.313	0.00	0.00
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.067	0.000	21.108	0.00	37.44
30.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.067	0.000	21.108	0.00	0.00
32.83	1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	0.068	0.000	21.512	0.00	21.19
32.83	1.25" Reinforcing	Yes	2.83	0.000	1.25	0.29	0.00	0.068	0.000	21.512	0.00	0.00
35.00	1 5/8" Coax	Yes	2.17	0.000	1.98	0.36	0.00	0.069	0.000	21.804	0.00	16.25
35.00	1.25" Reinforcing	Yes	2.17	0.000	1.25	0.23	0.00	0.069	0.000	21.804	0.00	0.00
40.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.046	0.000	22.426	0.00	37.44
40.00	1.25" Reinforcing	Yes	0.50	0.000	1.25	0.05	0.00	0.046	0.000	22.426	0.00	0.00
43.25	1 5/8" Coax	Yes	3.25	0.000	1.98	0.54	0.00	0.043	0.000	22.798	0.00	24.34
45.00	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.044	0.000	22.989	0.00	13.10
48.92	1 5/8" Coax	Yes	3.92	0.000	1.98	0.65	0.00	0.062	0.000	23.397	0.00	29.35
48.92	1.25" Reinforcing	Yes	2.42	0.000	1.25	0.25	0.00	0.062	0.000	23.397	0.00	0.00
49.00	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.073	0.000	23.405	0.00	0.60
49.00	1.25" Reinforcing	Yes	0.08	0.000	1.25	0.01	0.00	0.073	0.000	23.405	0.00	0.00
50.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.072	0.000	23.504	0.00	7.49
50.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.072	0.000	23.504	0.00	0.00
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.073	0.000	23.981	0.00	37.44
55.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.073	0.000	23.981	0.00	0.00
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.074	0.000	24.424	0.00	37.44
60.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.074	0.000	24.424	0.00	0.00
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.076	0.000	24.839	0.00	37.44
65.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.076	0.000	24.839	0.00	0.00
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.077	0.000	25.230	0.00	37.44
70.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.077	0.000	25.230	0.00	0.00
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.079	0.000	25.599	0.00	37.44
75.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.079	0.000	25.599	0.00	0.00
76.83	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.080	0.000	25.729	0.00	13.70
76.83	1.25" Reinforcing	Yes	1.83	0.000	1.25	0.19	0.00	0.080	0.000	25.729	0.00	0.00
80.00	1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	0.073	0.000	25.949	0.00	23.74
80.00	1.25" Reinforcing	Yes	2.42	0.000	1.25	0.25	0.00	0.073	0.000	25.949	0.00	0.00
85.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.050	0.000	26.282	0.00	37.44
87.50	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.051	0.000	26.443	0.00	18.72
90.00	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.052	0.000	26.600	0.00	18.72
91.92	1 5/8" Coax	Yes	1.92	0.000	1.98	0.32	0.00	0.081	0.000	26.719	0.00	14.38
91.92	1.25" Reinforcing	Yes	1.67	0.000	1.25	0.17	0.00	0.081	0.000	26.719	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

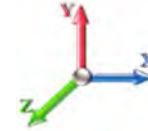
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.6W 94 mph Wind

Dead Load Factor 1.20
Wind Load Factor 1.60



Iterations 29

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
92.25	1 5/8" Coax	Yes	0.33	0.000	1.98	0.05	0.00	0.086	0.000	26.739	0.00	2.47
92.25	1.25" Reinforcing	Yes	0.33	0.000	1.25	0.03	0.00	0.086	0.000	26.739	0.00	0.00
95.00	1 5/8" Coax	Yes	2.75	0.000	1.98	0.45	0.00	0.085	0.000	26.905	0.00	20.59
95.00	1.25" Reinforcing	Yes	2.75	0.000	1.25	0.29	0.00	0.085	0.000	26.905	0.00	0.00
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.086	0.000	27.197	0.00	37.44
100.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.086	0.000	27.197	0.00	0.00
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.088	0.000	27.478	0.00	37.44
105.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.088	0.000	27.478	0.00	0.00
105.58	1 5/8" Coax	Yes	0.58	0.000	1.98	0.10	0.00	0.089	0.000	27.510	0.00	4.34
105.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.089	0.000	27.510	0.00	0.00
110.00	1 5/8" Coax	Yes	4.42	0.000	1.98	0.73	0.00	0.069	0.000	27.748	0.00	33.10
110.00	1.25" Reinforcing	Yes	1.67	0.000	1.25	0.17	0.00	0.069	0.000	27.748	0.00	0.00
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.057	0.000	28.009	0.00	37.44
120.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.058	0.000	28.261	0.00	37.44
125.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.059	0.000	28.505	0.00	37.44
130.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.061	0.000	28.742	0.00	37.44
132.50	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.062	0.000	28.857	0.00	18.72
135.00	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.063	0.000	28.971	0.00	18.72
136.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.064	0.000	29.038	0.00	11.23
140.00	1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	0.064	0.000	29.193	0.00	26.21
145.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.065	0.000	29.410	0.00	37.44
148.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.067	0.000	29.537	0.00	22.46
Totals:											0.0	1,108.2

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



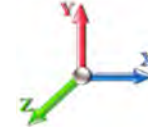
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Load Case: 1.2D + 1.6W 94 mph Wind

Iterations 29

Dead Load Factor 1.20

Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-49.10	-27.99	0.00	-3593.7	0.00	3593.74	5035.03	2517.52	10606.9	5311.37	0.00	0.000	0.000	0.686
0.25	-48.98	-28.04	0.00	-3586.7	0.00	3586.74	5032.22	2516.11	10592.3	5304.07	0.00	-0.011	0.000	0.514
5.00	-47.32	-27.74	0.00	-3453.5	0.00	3453.55	4978.38	2489.19	10316.4	5165.91	0.09	-0.162	0.000	0.506
10.00	-45.60	-27.41	0.00	-3314.8	0.00	3314.88	4920.91	2460.46	10028.2	5021.57	0.34	-0.321	0.000	0.497
15.00	-43.91	-27.08	0.00	-3177.8	0.00	3177.84	4862.63	2431.31	9742.31	4878.39	0.76	-0.480	0.000	0.488
20.00	-42.24	-26.73	0.00	-3042.4	0.00	3042.43	4803.53	2401.76	9458.77	4736.42	1.35	-0.641	0.000	0.479
25.00	-40.60	-26.35	0.00	-2908.8	0.00	2908.80	4743.61	2371.81	9177.73	4595.68	2.11	-0.801	0.000	0.470
30.00	-39.00	-25.93	0.00	-2777.0	0.00	2777.06	4682.88	2341.44	8899.25	4456.24	3.03	-0.962	0.000	0.460
32.83	-38.10	-25.69	0.00	-2703.6	0.00	2703.69	4648.14	2324.07	8742.80	4377.90	3.63	-1.054	0.000	0.454
32.83	-38.10	-25.69	0.00	-2703.6	0.00	2703.69	4648.14	2324.07	8742.80	4377.90	3.63	-1.054	0.000	0.454
35.00	-37.38	-25.57	0.00	-2647.9	0.00	2647.93	4621.33	2310.66	8623.42	4318.12	4.13	-1.125	0.000	0.621
40.00	-35.81	-25.15	0.00	-2520.1	0.00	2520.11	4558.96	2279.48	8350.33	4181.37	5.43	-1.348	0.000	0.611
43.25	-34.80	-24.88	0.00	-2438.3	0.00	2438.35	4517.98	2258.99	8174.32	4093.24	6.39	-1.494	0.000	0.604
45.00	-33.85	-24.75	0.00	-2394.8	0.00	2394.82	4495.78	2247.89	8080.06	4046.03	6.96	-1.574	0.000	0.600
48.92	-31.84	-24.35	0.00	-2297.7	0.00	2297.78	4445.67	2222.84	7870.19	3940.94	8.32	-1.751	0.000	0.427
49.00	-31.79	-24.35	0.00	-2295.8	0.00	2295.84	3699.57	1849.78	6681.20	3345.56	8.35	-1.754	0.000	0.456
50.00	-31.49	-24.30	0.00	-2271.4	0.00	2271.49	3689.91	1844.95	6638.39	3324.13	8.72	-1.787	0.000	0.486
55.00	-30.16	-23.84	0.00	-2149.9	0.00	2149.99	3641.14	1820.57	6425.47	3217.51	10.69	-1.962	0.000	0.473
60.00	-28.85	-23.38	0.00	-2030.7	0.00	2030.79	3591.55	1795.77	6214.50	3111.87	12.84	-2.136	0.000	0.459
65.00	-27.56	-22.91	0.00	-1913.9	0.00	1913.91	3541.14	1770.57	6005.55	3007.24	15.17	-2.309	0.000	0.444
70.00	-26.30	-22.43	0.00	-1799.3	0.00	1799.38	3489.91	1744.96	5798.71	2903.67	17.68	-2.480	0.000	0.430
75.00	-25.08	-21.93	0.00	-1687.2	0.00	1687.24	3437.87	1718.94	5594.07	2801.19	20.36	-2.650	0.000	0.415
76.83	-24.62	-21.76	0.00	-1647.1	0.00	1647.11	3418.62	1709.31	5519.73	2763.97	21.39	-2.713	0.000	0.409
76.83	-24.62	-21.76	0.00	-1647.1	0.00	1647.11	3418.62	1709.31	5519.73	2763.97	21.39	-2.713	0.000	0.409
80.00	-23.82	-21.48	0.00	-1578.1	0.00	1578.13	3385.02	1692.51	5391.70	2699.86	23.23	-2.821	0.000	0.592
85.00	-22.62	-21.01	0.00	-1470.7	0.00	1470.71	3331.35	1665.67	5191.69	2599.71	26.31	-3.067	0.000	0.573
87.50	-22.02	-20.78	0.00	-1418.2	0.00	1418.20	3304.20	1652.10	5092.60	2550.09	27.95	-3.192	0.000	0.563
90.00	-21.05	-20.52	0.00	-1366.2	0.00	1366.26	3276.86	1638.43	4994.13	2500.78	29.66	-3.316	0.000	0.553
91.92	-20.31	-20.30	0.00	-1326.8	0.00	1326.87	3255.72	1627.86	4918.94	2463.13	31.01	-3.411	0.000	0.381
92.25	-20.17	-20.28	0.00	-1320.1	0.00	1320.16	2609.22	1304.61	4017.17	2011.57	31.25	-3.422	0.000	0.409
95.00	-19.60	-20.03	0.00	-1264.3	0.00	1264.38	2587.46	1293.73	3934.74	1970.29	33.24	-3.517	0.000	0.434
100.00	-18.61	-19.54	0.00	-1164.2	0.00	1164.23	2547.26	1273.63	3786.04	1895.83	37.02	-3.698	0.000	0.412
105.00	-17.66	-19.03	0.00	-1066.5	0.00	1066.52	2506.24	1253.12	3638.92	1822.16	40.99	-3.875	0.000	0.390
105.58	-17.53	-19.00	0.00	-1055.4	0.00	1055.48	2501.42	1250.71	3621.96	1813.67	41.46	-3.896	0.000	0.387
105.58	-17.53	-19.00	0.00	-1055.4	0.00	1055.48	2501.42	1250.71	3621.96	1813.67	41.46	-3.896	0.000	0.387
110.00	-16.67	-18.58	0.00	-971.52	0.00	971.52	2464.40	1232.20	3493.46	1749.33	45.13	-4.048	0.000	0.562
115.00	-15.71	-18.12	0.00	-878.62	0.00	878.62	2421.75	1210.87	3349.75	1677.36	49.51	-4.303	0.000	0.531
120.00	-14.77	-17.65	0.00	-788.03	0.00	788.03	2378.28	1189.14	3207.87	1606.32	54.14	-4.550	0.000	0.497
125.00	-13.86	-17.19	0.00	-699.77	0.00	699.77	2333.99	1167.00	3067.90	1536.23	59.03	-4.787	0.000	0.462
130.00	-12.99	-16.71	0.00	-613.84	0.00	613.84	2288.89	1144.45	2929.94	1467.15	64.16	-5.014	0.000	0.424
132.50	-12.55	-16.48	0.00	-572.08	0.00	572.08	2266.03	1133.02	2861.73	1432.99	66.81	-5.124	0.000	0.405
135.00	-11.90	-16.22	0.00	-530.89	0.00	530.89	2239.33	1119.66	2789.52	1396.83	69.52	-5.231	0.000	0.386
136.50	-11.51	-16.07	0.00	-506.56	0.00	506.56	1414.34	707.17	1783.76	893.21	71.17	-5.294	0.000	0.576
140.00	-11.02	-15.76	0.00	-450.31	0.00	450.31	1397.90	698.95	1729.39	865.98	75.10	-5.433	0.000	0.528
145.00	-10.37	-15.31	0.00	-371.49	0.00	371.49	1373.73	686.86	1652.26	827.36	80.92	-5.678	0.000	0.457
148.00	-9.80	-14.30	0.00	-325.55	0.00	325.55	1358.83	679.41	1606.31	804.35	84.52	-5.813	0.000	0.412
150.00	-9.55	-14.14	0.00	-296.95	0.00	296.95	1348.73	674.37	1575.83	789.09	86.97	-5.898	0.000	0.384
155.00	-8.98	-13.69	0.00	-226.27	0.00	226.27	1322.92	661.46	1500.20	751.22	93.24	-6.083	0.000	0.308

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 17



158.00	-7.02	-10.28	0.00	-185.20	0.00	185.20	1307.05	653.52	1455.24	728.70	97.09	-6.178	0.000	0.260
160.00	-6.82	-10.11	0.00	-164.65	0.00	164.65	1296.30	648.15	1425.45	713.78	99.69	-6.235	0.000	0.236
165.00	-6.35	-9.68	0.00	-114.11	0.00	114.11	1268.86	634.43	1351.65	676.83	106.27	-6.353	0.000	0.174
168.00	-5.16	-6.68	0.00	-85.08	0.00	85.08	1252.00	626.00	1307.87	654.91	110.27	-6.408	0.000	0.134
168.50	-3.46	-5.27	0.00	-81.74	0.00	81.74	1249.16	624.58	1300.61	651.27	110.94	-6.416	0.000	0.128
170.00	-3.33	-5.14	0.00	-73.84	0.00	73.84	1240.60	620.30	1278.90	640.40	112.96	-6.439	0.000	0.118
175.00	-2.90	-4.72	0.00	-48.14	0.00	48.14	1211.52	605.76	1207.28	604.54	119.72	-6.502	0.000	0.082
178.00	-2.66	-4.48	0.00	-33.96	0.00	33.96	1193.69	596.84	1164.89	583.31	123.81	-6.530	0.000	0.061
178.00	-2.66	-4.48	0.00	-33.96	0.00	33.96	975.84	487.92	954.81	478.11	123.81	-6.530	0.000	0.074
180.00	-2.51	-4.32	0.00	-25.01	0.00	25.01	975.84	487.92	954.81	478.11	126.54	-6.544	0.000	0.055
184.00	-0.57	-2.60	0.00	-7.73	0.00	7.73	975.84	487.92	954.81	478.11	132.02	-6.562	0.000	0.017
185.00	-0.50	-2.52	0.00	-5.12	0.00	5.12	975.84	487.92	954.81	478.11	133.39	-6.564	0.000	0.011
187.00	-0.05	-0.08	0.00	-0.08	0.00	0.08	975.84	487.92	954.81	478.11	136.14	-6.566	0.000	0.000
188.00	0.00	-0.07	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	137.51	-6.566	0.000	0.000

Wind Loading - Shaft

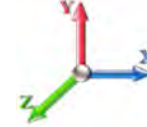
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 0.9D + 1.6W 94 mph Wind

Iterations 29

Dead Load Factor 0.90
Wind Load Factor 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	18.266	20.09	379.43	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
0.25	RB1	1.00	0.85	18.266	20.09	379.13	0.650	0.000	0.25	1.094	0.71	22.9	0.0	54.5
5.00		1.00	0.85	18.266	20.09	373.34	0.650	0.000	4.75	20.621	13.40	430.9	0.0	1027.5
10.00		1.00	0.85	18.266	20.09	367.25	0.650	0.000	5.00	21.364	13.89	446.4	0.0	1064.3
15.00		1.00	0.85	18.266	20.09	361.17	0.650	0.000	5.00	21.013	13.66	439.1	0.0	1046.7
20.00		1.00	0.90	19.381	21.32	365.76	0.650	0.000	5.00	20.662	13.43	458.1	0.0	1029.0
25.00		1.00	0.95	20.313	22.34	368.03	0.650	0.000	5.00	20.310	13.20	472.0	0.0	1011.4
30.00		1.00	0.98	21.108	23.22	368.62	0.650	0.000	5.00	19.959	12.97	482.0	0.0	993.7
32.83	RT1	1.00	1.00	21.512	23.66	368.39	0.650	0.000	2.83	11.141	7.24	274.2	0.0	554.6
35.00		1.00	1.01	21.804	23.98	367.99	0.650	0.000	2.17	8.467	5.50	211.2	0.0	421.5
40.00		1.00	1.04	22.426	24.67	366.46	0.650	0.000	5.00	19.257	12.52	494.0	0.0	958.4
43.25	Bot - Section 2	1.00	1.06	22.798	25.08	365.06	0.650	0.000	3.25	12.329	8.01	321.5	0.0	613.5
45.00		1.00	1.07	22.989	25.29	364.20	0.650	0.000	1.75	6.688	4.35	175.9	0.0	613.0
48.92	RB2	1.00	1.09	23.397	25.74	362.02	0.650	0.000	3.92	14.825	9.64	396.8	0.0	1358.5
49.00	Top - Section 1	1.00	1.09	23.405	25.75	361.97	0.650	0.000	0.08	0.300	0.20	8.0	0.0	27.5
50.00		1.00	1.09	23.504	25.85	367.60	0.650	0.000	1.00	3.746	2.44	100.7	0.0	160.0
55.00		1.00	1.12	23.981	26.38	364.33	0.650	0.000	5.00	18.520	12.04	508.1	0.0	790.9
60.00		1.00	1.14	24.424	26.87	360.64	0.650	0.000	5.00	18.169	11.81	507.7	0.0	775.8
65.00		1.00	1.16	24.839	27.32	356.59	0.650	0.000	5.00	17.818	11.58	506.3	0.0	760.7
70.00		1.00	1.17	25.230	27.75	352.23	0.650	0.000	5.00	17.467	11.35	504.1	0.0	745.6
75.00		1.00	1.19	25.599	28.16	347.59	0.650	0.000	5.00	17.115	11.13	501.2	0.0	730.4
76.83	RT2	1.00	1.20	25.729	28.30	345.83	0.650	0.000	1.83	6.176	4.01	181.8	0.0	263.6
80.00		1.00	1.21	25.949	28.54	342.70	0.650	0.000	3.17	10.588	6.88	314.3	0.0	451.7
85.00		1.00	1.22	26.282	28.91	337.60	0.650	0.000	5.00	16.413	10.67	493.5	0.0	700.2
87.50	Bot - Section 3	1.00	1.23	26.443	29.09	334.97	0.650	0.000	2.50	8.075	5.25	244.3	0.0	344.4
90.00		1.00	1.24	26.600	29.26	332.29	0.650	0.000	2.50	8.119	5.28	247.1	0.0	629.7
91.92	RB3	1.00	1.24	26.719	29.39	330.20	0.650	0.000	1.92	6.176	4.01	188.8	0.0	478.9
92.25	Top - Section 2	1.00	1.24	26.739	29.41	329.84	0.650	0.000	0.33	1.056	0.69	32.3	0.0	81.9
95.00		1.00	1.25	26.905	29.60	332.36	0.650	0.000	2.75	8.743	5.68	269.1	0.0	311.2
100.00		1.00	1.27	27.197	29.92	326.73	0.650	0.000	5.00	15.624	10.16	486.1	0.0	556.1
105.00		1.00	1.28	27.478	30.23	320.94	0.650	0.000	5.00	15.273	9.93	480.1	0.0	543.5
105.58	RT3	1.00	1.28	27.510	30.26	320.26	0.650	0.000	0.58	1.749	1.14	55.0	0.0	62.2
110.00		1.00	1.29	27.748	30.52	315.02	0.650	0.000	4.42	13.172	8.56	418.1	0.0	468.6
115.00		1.00	1.30	28.009	30.81	308.96	0.650	0.000	5.00	14.570	9.47	466.9	0.0	518.3
120.00		1.00	1.32	28.261	31.09	302.77	0.650	0.000	5.00	14.219	9.24	459.7	0.0	505.7
125.00		1.00	1.33	28.505	31.36	296.47	0.650	0.000	5.00	13.868	9.01	452.2	0.0	493.1
130.00		1.00	1.34	28.742	31.62	290.06	0.650	0.000	5.00	13.516	8.79	444.4	0.0	480.4
132.50	Bot - Section 4	1.00	1.34	28.857	31.74	286.82	0.650	0.000	2.50	6.627	4.31	218.8	0.0	235.5
135.00		1.00	1.35	28.971	31.87	283.55	0.650	0.000	2.50	6.631	4.31	219.8	0.0	397.8
136.50	Top - Section 3	1.00	1.35	29.038	31.94	281.57	0.650	0.000	1.50	3.937	2.56	130.8	0.0	236.1
140.00		1.00	1.36	29.193	32.11	281.00	0.650	0.000	3.50	9.063	5.89	302.7	0.0	226.1
145.00		1.00	1.37	29.410	32.35	274.31	0.650	0.000	5.00	12.648	8.22	425.5	0.0	315.6
148.00	Appurtenance(s)	1.00	1.37	29.537	32.49	270.26	0.650	0.000	3.00	7.420	4.82	250.7	0.0	185.1
150.00		1.00	1.38	29.621	32.58	267.54	0.650	0.000	2.00	4.877	3.17	165.2	0.0	121.6
155.00		1.00	1.39	29.826	32.81	260.69	0.650	0.000	5.00	11.946	7.76	407.6	0.0	297.9
158.00	Appurtenance(s)	1.00	1.39	29.946	32.94	256.54	0.650	0.000	3.00	6.999	4.55	239.8	0.0	174.5
160.00		1.00	1.40	30.026	33.03	253.75	0.650	0.000	2.00	4.596	2.99	157.9	0.0	114.6

Wind Loading - Shaft

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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165.00	1.00	1.41	30.221	33.24	246.75	0.650	0.000	5.00	11.243	7.31	388.7	0.0	280.2	
168.00 Appurtenance(s)	1.00	1.41	30.336	33.37	242.51	0.650	0.000	3.00	6.577	4.28	228.3	0.0	163.9	
168.50 Appurtenance(s)	1.00	1.41	30.355	33.39	241.80	0.650	0.000	0.50	1.084	0.70	37.6	0.0	27.0	
170.00	1.00	1.42	30.411	33.45	239.67	0.650	0.000	1.50	3.231	2.10	112.4	0.0	80.5	
175.00	1.00	1.42	30.598	33.66	232.52	0.650	0.000	5.00	10.541	6.85	369.0	0.0	262.6	
178.00 Top - Section 4	1.00	1.43	30.707	33.78	228.20	0.650	0.000	3.00	6.156	4.00	216.2	0.0	153.3	
180.00	1.00	1.43	30.780	33.86	228.47	0.650	0.000	2.00	4.062	2.64	143.0	0.0	86.8	
184.00 Appurtenance(s)	1.00	1.44	30.922	34.01	229.00	0.650	0.000	4.00	8.123	5.28	287.4	0.0	173.6	
185.00	1.00	1.44	30.958	34.05	229.13	0.650	0.000	1.00	2.031	1.32	71.9	0.0	43.4	
187.00 Appurtenance(s)	1.00	1.44	31.028	34.13	229.39	0.650	0.000	2.00	4.062	2.64	144.2	0.0	86.8	
188.00	1.00	1.45	31.063	34.17	229.52	0.650	0.000	1.00	2.031	1.32	72.2	0.0	43.4	
Totals:								188.00			17,084.4			25,333.6

Discrete Appurtenance Forces

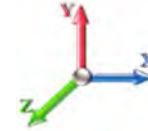
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 94 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 29

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	187.00	APXV18-209014	3	31.028	34.131	0.59	0.80	6.36	50.49	0.000	0.000	347.21	0.00	0.00
2	187.00	APX16PV-16-PVL-E	3	31.028	34.131	0.50	0.80	8.97	106.92	0.000	0.000	489.99	0.00	0.00
3	187.00	KRY 112 144-1	12	31.028	34.131	0.54	0.80	2.64	118.80	0.000	0.000	144.01	0.00	0.00
4	187.00	IBR 1300	1	31.028	34.131	0.80	0.80	0.54	8.01	0.000	0.000	29.27	0.00	0.00
5	187.00	LNx-6515DS-A1M	3	31.028	34.131	0.64	0.80	22.02	134.46	0.000	0.000	1202.62	0.00	0.00
6	187.00	782 11054	3	31.028	34.131	0.54	0.80	0.35	4.86	0.000	0.000	19.32	0.00	0.00
7	184.00	Low Profile Platform	1	30.922	34.015	1.00	1.00	22.00	1350.00	0.000	0.000	1197.32	0.00	0.00
8	168.50	Low Profile Platform	1	30.355	33.390	1.00	1.00	22.00	1350.00	0.000	0.000	1175.34	0.00	0.00
9	168.00	APXV9ERR18-C-A20	1	30.336	33.369	0.66	0.80	5.33	55.80	0.000	0.000	284.32	0.00	0.00
10	168.00	ACU-A20-N	4	30.336	33.369	0.80	0.80	0.45	3.60	0.000	0.000	23.92	0.00	0.00
11	168.00	TD-RRH8x20-25	3	30.336	33.369	0.54	0.80	6.51	189.00	0.000	0.000	347.70	0.00	0.00
12	168.00	800 MHz RRH	3	30.336	33.369	0.54	0.80	4.73	145.80	0.000	0.000	252.41	0.00	0.00
13	168.00	1900 MHz RRH	3	30.336	33.369	0.54	0.80	4.73	118.80	0.000	0.000	252.41	0.00	0.00
14	168.00	800 MHz Filters	3	30.336	33.369	0.54	0.80	4.73	145.80	0.000	0.000	252.41	0.00	0.00
15	168.00	APXVSP18-C-A20	2	30.336	33.369	0.66	0.80	10.65	102.60	0.000	0.000	568.64	0.00	0.00
16	168.00	APXVTM14-C-120	3	30.336	33.369	0.63	0.80	12.02	151.20	0.000	0.000	641.79	0.00	0.00
17	158.00	LGP21401	6	29.946	32.941	0.54	0.80	4.05	94.50	0.000	0.000	213.57	0.00	0.00
18	158.00	T-Arm	3	29.946	32.941	0.50	0.75	12.06	810.00	0.000	0.000	635.63	0.00	0.00
19	158.00	P65-17-XLH-RR	2	29.946	32.941	0.60	0.80	13.73	106.20	0.000	0.000	723.54	0.00	0.00
20	158.00	SBNH-1D6565C	1	29.946	32.941	0.64	0.80	7.34	59.49	0.000	0.000	386.90	0.00	0.00
21	158.00	RRUS-11	6	29.946	32.941	0.54	0.80	8.10	273.78	0.000	0.000	427.14	0.00	0.00
22	158.00	DC-48-60-18-8F	1	29.946	32.941	0.80	0.80	1.18	28.62	0.000	0.000	61.98	0.00	0.00
23	158.00	7770	3	29.946	32.941	0.58	0.80	9.64	94.50	0.000	0.000	507.87	0.00	0.00
24	148.00	742 213	3	29.537	32.491	0.58	0.80	8.85	59.40	0.000	0.000	459.93	0.00	0.00
25	148.00	Flush Mount	1	29.537	32.491	1.00	1.00	5.00	135.00	0.000	0.000	259.93	0.00	0.00

Totals: 5,697.63

10,905.18

Total Applied Force Summary

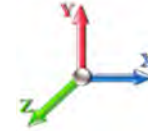
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 94 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 29

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
0.25		22.86	62.97	0.00	0.00
5.00		430.90	1187.96	0.00	0.00
10.00		446.42	1233.28	0.00	0.00
15.00		439.09	1215.63	0.00	0.00
20.00		458.10	1197.97	0.00	0.00
25.00		471.97	1180.32	0.00	0.00
30.00		481.96	1162.67	0.00	0.00
32.83		274.19	650.25	0.00	0.00
35.00		211.19	494.77	0.00	0.00
40.00		494.03	1127.37	0.00	0.00
43.25		321.53	723.33	0.00	0.00
45.00		175.89	672.09	0.00	0.00
48.92		396.80	1490.92	0.00	0.00
49.00		8.04	30.22	0.00	0.00
50.00		100.73	193.79	0.00	0.00
55.00		508.09	959.87	0.00	0.00
60.00		507.67	944.74	0.00	0.00
65.00		506.31	929.61	0.00	0.00
70.00		504.14	914.48	0.00	0.00
75.00		501.23	899.36	0.00	0.00
76.83		181.80	325.38	0.00	0.00
80.00		314.31	558.84	0.00	0.00
85.00		493.49	869.10	0.00	0.00
87.50		244.27	428.88	0.00	0.00
90.00		247.08	714.17	0.00	0.00
91.92		188.78	543.78	0.00	0.00
92.25		32.31	93.05	0.00	0.00
95.00		269.10	404.14	0.00	0.00
100.00		486.11	725.02	0.00	0.00
105.00		480.09	712.41	0.00	0.00
105.58		55.04	81.82	0.00	0.00
110.00		418.15	617.98	0.00	0.00
115.00		466.86	687.20	0.00	0.00
120.00		459.71	674.59	0.00	0.00
125.00		452.23	661.98	0.00	0.00
130.00		444.43	649.38	0.00	0.00
132.50		218.76	319.96	0.00	0.00
135.00		219.78	482.31	0.00	0.00
136.50		130.77	286.81	0.00	0.00
140.00		302.66	344.39	0.00	0.00
145.00		425.54	484.49	0.00	0.00
148.00	(4) attachments	970.59	480.85	0.00	0.00
150.00		165.25	177.97	0.00	0.00
155.00		407.59	438.75	0.00	0.00
158.00	(22) attachments	3196.41	1726.10	0.00	0.00
160.00		157.86	152.69	0.00	0.00

Total Applied Force Summary

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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165.00		388.70	375.56	0.00	0.00
168.00	(22) attachments	2851.86	1133.70	0.00	0.00
168.50	(1) attachments	1212.98	1385.54	0.00	0.00
170.00		112.40	106.10	0.00	0.00
175.00		368.96	347.91	0.00	0.00
178.00		216.25	204.51	0.00	0.00
180.00		143.02	120.92	0.00	0.00
184.00	(1) attachments	1484.68	1591.85	0.00	0.00
185.00		71.92	60.46	0.00	0.00
187.00	(25) attachments	2376.59	544.46	0.00	0.00
188.00		72.17	43.40	0.00	0.00
	Totals:	27,989.63	36,828.09	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

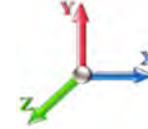
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.6W 94 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 29

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
0.25	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.062	0.000	18.266	0.00	1.40
0.25	1.25" Reinforcing	Yes	0.25	0.000	1.25	0.03	0.00	0.062	0.000	18.266	0.00	0.00
5.00	1 5/8" Coax	Yes	4.75	0.000	1.98	0.78	0.00	0.062	0.000	18.266	0.00	26.68
5.00	1.25" Reinforcing	Yes	4.75	0.000	1.25	0.49	0.00	0.062	0.000	18.266	0.00	0.00
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.063	0.000	18.266	0.00	28.08
10.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.063	0.000	18.266	0.00	0.00
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.064	0.000	18.266	0.00	28.08
15.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.064	0.000	18.266	0.00	0.00
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.065	0.000	19.381	0.00	28.08
20.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.065	0.000	19.381	0.00	0.00
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.066	0.000	20.313	0.00	28.08
25.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.066	0.000	20.313	0.00	0.00
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.067	0.000	21.108	0.00	28.08
30.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.067	0.000	21.108	0.00	0.00
32.83	1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	0.068	0.000	21.512	0.00	15.89
32.83	1.25" Reinforcing	Yes	2.83	0.000	1.25	0.29	0.00	0.068	0.000	21.512	0.00	0.00
35.00	1 5/8" Coax	Yes	2.17	0.000	1.98	0.36	0.00	0.069	0.000	21.804	0.00	12.19
35.00	1.25" Reinforcing	Yes	2.17	0.000	1.25	0.23	0.00	0.069	0.000	21.804	0.00	0.00
40.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.046	0.000	22.426	0.00	28.08
40.00	1.25" Reinforcing	Yes	0.50	0.000	1.25	0.05	0.00	0.046	0.000	22.426	0.00	0.00
43.25	1 5/8" Coax	Yes	3.25	0.000	1.98	0.54	0.00	0.043	0.000	22.798	0.00	18.25
45.00	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.044	0.000	22.989	0.00	9.83
48.92	1 5/8" Coax	Yes	3.92	0.000	1.98	0.65	0.00	0.062	0.000	23.397	0.00	22.01
48.92	1.25" Reinforcing	Yes	2.42	0.000	1.25	0.25	0.00	0.062	0.000	23.397	0.00	0.00
49.00	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.073	0.000	23.405	0.00	0.45
49.00	1.25" Reinforcing	Yes	0.08	0.000	1.25	0.01	0.00	0.073	0.000	23.405	0.00	0.00
50.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.072	0.000	23.504	0.00	5.62
50.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.072	0.000	23.504	0.00	0.00
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.073	0.000	23.981	0.00	28.08
55.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.073	0.000	23.981	0.00	0.00
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.074	0.000	24.424	0.00	28.08
60.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.074	0.000	24.424	0.00	0.00
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.076	0.000	24.839	0.00	28.08
65.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.076	0.000	24.839	0.00	0.00
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.077	0.000	25.230	0.00	28.08
70.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.077	0.000	25.230	0.00	0.00
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.079	0.000	25.599	0.00	28.08
75.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.079	0.000	25.599	0.00	0.00
76.83	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.080	0.000	25.729	0.00	10.28
76.83	1.25" Reinforcing	Yes	1.83	0.000	1.25	0.19	0.00	0.080	0.000	25.729	0.00	0.00
80.00	1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	0.073	0.000	25.949	0.00	17.80
80.00	1.25" Reinforcing	Yes	2.42	0.000	1.25	0.25	0.00	0.073	0.000	25.949	0.00	0.00
85.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.050	0.000	26.282	0.00	28.08
87.50	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.051	0.000	26.443	0.00	14.04
90.00	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.052	0.000	26.600	0.00	14.04
91.92	1 5/8" Coax	Yes	1.92	0.000	1.98	0.32	0.00	0.081	0.000	26.719	0.00	10.78
91.92	1.25" Reinforcing	Yes	1.67	0.000	1.25	0.17	0.00	0.081	0.000	26.719	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

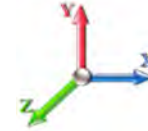
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Page: 24

Load Case: 0.9D + 1.6W 94 mph Wind

Dead Load Factor 0.90
Wind Load Factor 1.60



Iterations 29

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
92.25	1 5/8" Coax	Yes	0.33	0.000	1.98	0.05	0.00	0.086	0.000	26.739	0.00	1.85
92.25	1.25" Reinforcing	Yes	0.33	0.000	1.25	0.03	0.00	0.086	0.000	26.739	0.00	0.00
95.00	1 5/8" Coax	Yes	2.75	0.000	1.98	0.45	0.00	0.085	0.000	26.905	0.00	15.44
95.00	1.25" Reinforcing	Yes	2.75	0.000	1.25	0.29	0.00	0.085	0.000	26.905	0.00	0.00
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.086	0.000	27.197	0.00	28.08
100.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.086	0.000	27.197	0.00	0.00
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.088	0.000	27.478	0.00	28.08
105.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.088	0.000	27.478	0.00	0.00
105.58	1 5/8" Coax	Yes	0.58	0.000	1.98	0.10	0.00	0.089	0.000	27.510	0.00	3.26
105.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.089	0.000	27.510	0.00	0.00
110.00	1 5/8" Coax	Yes	4.42	0.000	1.98	0.73	0.00	0.069	0.000	27.748	0.00	24.82
110.00	1.25" Reinforcing	Yes	1.67	0.000	1.25	0.17	0.00	0.069	0.000	27.748	0.00	0.00
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.057	0.000	28.009	0.00	28.08
120.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.058	0.000	28.261	0.00	28.08
125.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.059	0.000	28.505	0.00	28.08
130.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.061	0.000	28.742	0.00	28.08
132.50	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.062	0.000	28.857	0.00	14.04
135.00	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.063	0.000	28.971	0.00	14.04
136.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.064	0.000	29.038	0.00	8.42
140.00	1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	0.064	0.000	29.193	0.00	19.66
145.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.065	0.000	29.410	0.00	28.08
148.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.067	0.000	29.537	0.00	16.85
Totals:											0.0	831.2

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



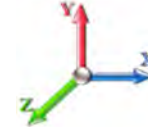
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Load Case: 0.9D + 1.6W 94 mph Wind

Iterations 29

Dead Load Factor 0.90

Wind Load Factor 1.60



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.82	-27.99	0.00	-3547.4	0.00	3547.49	5035.03	2517.52	10606.9	5311.37	0.00	0.000	0.000	0.675
0.25	-36.72	-28.02	0.00	-3540.5	0.00	3540.50	5032.22	2516.11	10592.3	5304.07	0.00	-0.011	0.000	0.506
5.00	-35.46	-27.68	0.00	-3407.4	0.00	3407.40	4978.38	2489.19	10316.4	5165.91	0.09	-0.159	0.000	0.497
10.00	-34.16	-27.33	0.00	-3268.9	0.00	3268.98	4920.91	2460.46	10028.2	5021.57	0.34	-0.316	0.000	0.489
15.00	-32.87	-26.97	0.00	-3132.3	0.00	3132.36	4862.63	2431.31	9742.31	4878.39	0.75	-0.474	0.000	0.480
20.00	-31.60	-26.59	0.00	-2997.5	0.00	2997.51	4803.53	2401.76	9458.77	4736.42	1.33	-0.632	0.000	0.470
25.00	-30.36	-26.18	0.00	-2864.5	0.00	2864.58	4743.61	2371.81	9177.73	4595.68	2.08	-0.790	0.000	0.461
30.00	-29.14	-25.75	0.00	-2733.6	0.00	2733.67	4682.88	2341.44	8899.25	4456.24	2.99	-0.948	0.000	0.451
32.83	-28.46	-25.50	0.00	-2660.8	0.00	2660.80	4648.14	2324.07	8742.80	4377.90	3.58	-1.039	0.000	0.446
32.83	-28.46	-25.50	0.00	-2660.8	0.00	2660.80	4648.14	2324.07	8742.80	4377.90	3.58	-1.039	0.000	0.446
35.00	-27.91	-25.35	0.00	-2605.4	0.00	2605.46	4621.33	2310.66	8623.42	4318.12	4.07	-1.109	0.000	0.610
40.00	-26.71	-24.92	0.00	-2478.7	0.00	2478.70	4558.96	2279.48	8350.33	4181.37	5.35	-1.328	0.000	0.599
43.25	-25.95	-24.63	0.00	-2397.7	0.00	2397.72	4517.98	2258.99	8174.32	4093.24	6.30	-1.472	0.000	0.592
45.00	-25.23	-24.49	0.00	-2354.6	0.00	2354.62	4495.78	2247.89	8080.06	4046.03	6.86	-1.551	0.000	0.588
48.92	-23.71	-24.09	0.00	-2258.6	0.00	2258.61	4445.67	2222.84	7870.19	3940.94	8.20	-1.725	0.000	0.419
49.00	-23.68	-24.09	0.00	-2256.6	0.00	2256.68	3699.57	1849.78	6681.20	3345.56	8.23	-1.727	0.000	0.447
50.00	-23.44	-24.02	0.00	-2232.5	0.00	2232.59	3689.91	1844.95	6638.39	3324.13	8.60	-1.760	0.000	0.477
55.00	-22.43	-23.55	0.00	-2112.4	0.00	2112.48	3641.14	1820.57	6425.47	3217.51	10.53	-1.932	0.000	0.463
60.00	-21.43	-23.07	0.00	-1994.7	0.00	1994.72	3591.55	1795.77	6214.50	3111.87	12.65	-2.103	0.000	0.449
65.00	-20.46	-22.59	0.00	-1879.3	0.00	1879.35	3541.14	1770.57	6005.55	3007.24	14.94	-2.272	0.000	0.435
70.00	-19.50	-22.11	0.00	-1766.3	0.00	1766.38	3489.91	1744.96	5798.71	2903.67	17.41	-2.441	0.000	0.421
75.00	-18.58	-21.61	0.00	-1655.8	0.00	1655.83	3437.87	1718.94	5594.07	2801.19	20.05	-2.608	0.000	0.406
76.83	-18.23	-21.44	0.00	-1616.2	0.00	1616.29	3418.62	1709.31	5519.73	2763.97	21.07	-2.669	0.000	0.400
76.83	-18.23	-21.44	0.00	-1616.2	0.00	1616.29	3418.62	1709.31	5519.73	2763.97	21.07	-2.669	0.000	0.400
80.00	-17.63	-21.15	0.00	-1548.3	0.00	1548.34	3385.02	1692.51	5391.70	2699.86	22.87	-2.775	0.000	0.579
85.00	-16.72	-20.67	0.00	-1442.5	0.00	1442.59	3331.35	1665.67	5191.69	2599.71	25.91	-3.017	0.000	0.560
87.50	-16.26	-20.43	0.00	-1390.9	0.00	1390.93	3304.20	1652.10	5092.60	2550.09	27.52	-3.139	0.000	0.551
90.00	-15.52	-20.18	0.00	-1339.8	0.00	1339.84	3276.86	1638.43	4994.13	2500.78	29.20	-3.260	0.000	0.541
91.92	-14.97	-19.97	0.00	-1301.1	0.00	1301.10	3255.72	1627.86	4918.94	2463.13	30.52	-3.354	0.000	0.373
92.25	-14.86	-19.95	0.00	-1294.5	0.00	1294.51	2609.22	1304.61	4017.17	2011.57	30.76	-3.365	0.000	0.400
95.00	-14.43	-19.69	0.00	-1239.6	0.00	1239.66	2587.46	1293.73	3934.74	1970.29	32.72	-3.457	0.000	0.425
100.00	-13.68	-19.20	0.00	-1141.2	0.00	1141.23	2547.26	1273.63	3786.04	1895.83	36.44	-3.635	0.000	0.403
105.00	-12.96	-18.70	0.00	-1045.2	0.00	1045.23	2506.24	1253.12	3638.92	1822.16	40.33	-3.809	0.000	0.381
105.58	-12.86	-18.65	0.00	-1034.3	0.00	1034.39	2501.42	1250.71	3621.96	1813.67	40.80	-3.829	0.000	0.378
105.58	-12.86	-18.65	0.00	-1034.3	0.00	1034.39	2501.42	1250.71	3621.96	1813.67	40.80	-3.829	0.000	0.378
110.00	-12.21	-18.24	0.00	-951.94	0.00	951.94	2464.40	1232.20	3493.46	1749.33	44.41	-3.978	0.000	0.549
115.00	-11.48	-17.77	0.00	-860.75	0.00	860.75	2421.75	1210.87	3349.75	1677.36	48.71	-4.228	0.000	0.518
120.00	-10.77	-17.31	0.00	-771.89	0.00	771.89	2378.28	1189.14	3207.87	1606.32	53.26	-4.470	0.000	0.485
125.00	-10.08	-16.84	0.00	-685.35	0.00	685.35	2333.99	1167.00	3067.90	1536.23	58.06	-4.702	0.000	0.451
130.00	-9.42	-16.37	0.00	-601.13	0.00	601.13	2288.89	1144.45	2929.94	1467.15	63.10	-4.924	0.000	0.414
132.50	-9.09	-16.15	0.00	-560.19	0.00	560.19	2266.03	1133.02	2861.73	1432.99	65.71	-5.032	0.000	0.395
135.00	-8.61	-15.90	0.00	-519.83	0.00	519.83	2239.33	1119.66	2789.52	1396.83	68.37	-5.137	0.000	0.376
136.50	-8.31	-15.75	0.00	-495.98	0.00	495.98	1414.34	707.17	1783.76	893.21	69.99	-5.199	0.000	0.562
140.00	-7.94	-15.45	0.00	-440.84	0.00	440.84	1397.90	698.95	1729.39	865.98	73.85	-5.335	0.000	0.515
145.00	-7.45	-15.00	0.00	-363.61	0.00	363.61	1373.73	686.86	1652.26	827.36	79.56	-5.574	0.000	0.445
148.00	-7.04	-14.00	0.00	-318.60	0.00	318.60	1358.83	679.41	1606.31	804.35	83.10	-5.707	0.000	0.402
150.00	-6.85	-13.84	0.00	-290.60	0.00	290.60	1348.73	674.37	1575.83	789.09	85.50	-5.790	0.000	0.374
155.00	-6.42	-13.40	0.00	-221.42	0.00	221.42	1322.92	661.46	1500.20	751.22	91.66	-5.970	0.000	0.300

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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158.00	-5.03	-10.05	0.00	-181.21	0.00	181.21	1307.05	653.52	1455.24	728.70	95.43	-6.064	0.000	0.253
160.00	-4.88	-9.88	0.00	-161.12	0.00	161.12	1296.30	648.15	1425.45	713.78	97.98	-6.119	0.000	0.230
165.00	-4.53	-9.46	0.00	-111.71	0.00	111.71	1268.86	634.43	1351.65	676.83	104.44	-6.235	0.000	0.169
168.00	-3.71	-6.51	0.00	-83.32	0.00	83.32	1252.00	626.00	1307.87	654.91	108.37	-6.289	0.000	0.130
168.50	-2.47	-5.15	0.00	-80.07	0.00	80.07	1249.16	624.58	1300.61	651.27	109.03	-6.297	0.000	0.125
170.00	-2.37	-5.03	0.00	-72.35	0.00	72.35	1240.60	620.30	1278.90	640.40	111.01	-6.320	0.000	0.115
175.00	-2.06	-4.62	0.00	-47.22	0.00	47.22	1211.52	605.76	1207.28	604.54	117.65	-6.381	0.000	0.080
178.00	-1.88	-4.39	0.00	-33.35	0.00	33.35	1193.69	596.84	1164.89	583.31	121.66	-6.408	0.000	0.059
178.00	-1.88	-4.39	0.00	-33.35	0.00	33.35	975.84	487.92	954.81	478.11	121.66	-6.408	0.000	0.072
180.00	-1.78	-4.23	0.00	-24.58	0.00	24.58	975.84	487.92	954.81	478.11	124.34	-6.422	0.000	0.053
184.00	-0.36	-2.58	0.00	-7.65	0.00	7.65	975.84	487.92	954.81	478.11	129.72	-6.440	0.000	0.016
185.00	-0.31	-2.50	0.00	-5.07	0.00	5.07	975.84	487.92	954.81	478.11	131.07	-6.442	0.000	0.011
187.00	-0.04	-0.08	0.00	-0.08	0.00	0.08	975.84	487.92	954.81	478.11	133.76	-6.444	0.000	0.000
188.00	0.00	-0.07	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	135.11	-6.444	0.000	0.000

Wind Loading - Shaft

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

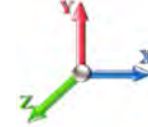


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.168	5.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
0.25	RB1	1.00	0.85	5.168	5.68	0.00	1.200	1.227	0.25	1.145	1.37	7.8	20.3	93.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.656	4.75	21.932	26.32	149.6	518.0	1888.0
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.775	5.00	22.843	27.41	155.8	576.5	1995.6
15.00		1.00	0.85	5.168	5.68	0.00	1.200	1.848	5.00	22.553	27.06	153.9	591.5	1987.1
20.00		1.00	0.90	5.483	6.03	0.00	1.200	1.902	5.00	22.247	26.70	161.0	599.5	1971.6
25.00		1.00	0.95	5.747	6.32	0.00	1.200	1.945	5.00	21.931	26.32	166.4	603.5	1952.0
30.00		1.00	0.98	5.972	6.57	0.00	1.200	1.981	5.00	21.610	25.93	170.4	604.7	1929.7
32.83	RT1	1.00	1.00	6.087	6.70	0.00	1.200	1.999	2.83	12.084	14.50	97.1	342.2	1081.7
35.00		1.00	1.01	6.169	6.79	0.00	1.200	2.012	2.17	9.194	11.03	74.9	262.1	824.1
40.00		1.00	1.04	6.345	6.98	0.00	1.200	2.039	5.00	20.956	25.15	175.5	601.9	1879.8
43.25	Bot - Section 2	1.00	1.06	6.450	7.10	0.00	1.200	2.055	3.25	13.442	16.13	114.4	389.9	1207.9
45.00		1.00	1.07	6.504	7.15	0.00	1.200	2.063	1.75	7.290	8.75	62.6	212.9	1030.2
48.92	RB2	1.00	1.09	6.620	7.28	0.00	1.200	2.080	3.92	16.184	19.42	141.4	474.4	2285.7
49.00	Top - Section 1	1.00	1.09	6.622	7.28	0.00	1.200	2.081	0.08	0.328	0.39	2.9	9.7	46.4
50.00		1.00	1.09	6.650	7.32	0.00	1.200	2.085	1.00	4.094	4.91	35.9	120.8	334.2
55.00		1.00	1.12	6.785	7.46	0.00	1.200	2.105	5.00	20.274	24.33	181.6	599.2	1653.8
60.00		1.00	1.14	6.910	7.60	0.00	1.200	2.123	5.00	19.939	23.93	181.9	593.7	1628.1
65.00		1.00	1.16	7.028	7.73	0.00	1.200	2.140	5.00	19.602	23.52	181.8	587.5	1601.8
70.00		1.00	1.17	7.138	7.85	0.00	1.200	2.156	5.00	19.264	23.12	181.5	580.9	1575.0
75.00		1.00	1.19	7.243	7.97	0.00	1.200	2.171	5.00	18.925	22.71	180.9	573.8	1547.7
76.83	RT2	1.00	1.20	7.280	8.01	0.00	1.200	2.176	1.83	6.840	8.21	65.7	209.0	560.4
80.00		1.00	1.21	7.342	8.08	0.00	1.200	2.185	3.17	11.742	14.09	113.8	359.1	961.4
85.00		1.00	1.22	7.436	8.18	0.00	1.200	2.198	5.00	18.245	21.89	179.1	558.6	1492.1
87.50	Bot - Section 3	1.00	1.23	7.482	8.23	0.00	1.200	2.205	2.50	8.994	10.79	88.8	277.3	736.5
90.00		1.00	1.24	7.526	8.28	0.00	1.200	2.211	2.50	9.041	10.85	89.8	279.5	1119.2
91.92	RB3	1.00	1.24	7.560	8.32	0.00	1.200	2.216	1.92	6.885	8.26	68.7	213.5	852.0
92.25	Top - Section 2	1.00	1.24	7.565	8.32	0.00	1.200	2.217	0.33	1.178	1.41	11.8	36.7	145.9
95.00		1.00	1.25	7.612	8.37	0.00	1.200	2.223	2.75	9.762	11.71	98.1	302.9	717.9
100.00		1.00	1.27	7.695	8.46	0.00	1.200	2.234	5.00	17.486	20.98	177.6	542.1	1283.5
105.00		1.00	1.28	7.774	8.55	0.00	1.200	2.245	5.00	17.144	20.57	175.9	533.2	1257.9
105.58	RT3	1.00	1.28	7.783	8.56	0.00	1.200	2.247	0.58	1.966	2.36	20.2	61.7	144.7
110.00		1.00	1.29	7.851	8.64	0.00	1.200	2.256	4.42	14.834	17.80	153.7	463.3	1088.2
115.00		1.00	1.30	7.925	8.72	0.00	1.200	2.266	5.00	16.458	19.75	172.2	514.8	1205.8
120.00		1.00	1.32	7.996	8.80	0.00	1.200	2.276	5.00	16.115	19.34	170.1	505.3	1179.5
125.00		1.00	1.33	8.065	8.87	0.00	1.200	2.285	5.00	15.772	18.93	167.9	495.6	1153.0
130.00		1.00	1.34	8.132	8.95	0.00	1.200	2.294	5.00	15.428	18.51	165.6	485.7	1126.3
132.50	Bot - Section 4	1.00	1.34	8.165	8.98	0.00	1.200	2.298	2.50	7.584	9.10	81.7	240.4	554.4
135.00		1.00	1.35	8.197	9.02	0.00	1.200	2.303	2.50	7.591	9.11	82.1	241.0	771.5
136.50	Top - Section 3	1.00	1.35	8.216	9.04	0.00	1.200	2.305	1.50	4.513	5.42	48.9	143.7	458.5
140.00		1.00	1.36	8.260	9.09	0.00	1.200	2.311	3.50	10.411	12.49	113.5	330.3	631.8
145.00		1.00	1.37	8.321	9.15	0.00	1.200	2.319	5.00	14.581	17.50	160.1	461.6	882.3
148.00	Appurtenance(s)	1.00	1.37	8.357	9.19	0.00	1.200	2.324	3.00	8.582	10.30	94.7	273.2	520.0
150.00		1.00	1.38	8.381	9.22	0.00	1.200	2.327	2.00	5.652	6.78	62.5	180.5	342.6
155.00		1.00	1.39	8.439	9.28	0.00	1.200	2.335	5.00	13.891	16.67	154.7	440.6	837.8
158.00	Appurtenance(s)	1.00	1.39	8.473	9.32	0.00	1.200	2.339	3.00	8.168	9.80	91.4	260.5	493.2
160.00		1.00	1.40	8.495	9.34	0.00	1.200	2.342	2.00	5.376	6.45	60.3	172.0	324.7

Wind Loading - Shaft

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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165.00	1.00	1.41	8.551	9.41	0.00	1.200	2.349	5.00	13.201	15.84	149.0	419.2	792.8
168.00 Appurtenance(s)	1.00	1.41	8.583	9.44	0.00	1.200	2.353	3.00	7.754	9.30	87.8	247.6	466.1
168.50 Appurtenance(s)	1.00	1.41	8.588	9.45	0.00	1.200	2.354	0.50	1.280	1.54	14.5	41.2	77.2
170.00	1.00	1.42	8.604	9.46	0.00	1.200	2.356	1.50	3.820	4.58	43.4	122.5	229.8
175.00	1.00	1.42	8.657	9.52	0.00	1.200	2.363	5.00	12.510	15.01	143.0	397.2	747.4
178.00 Top - Section 4	1.00	1.43	8.688	9.56	0.00	1.200	2.367	3.00	7.339	8.81	84.2	234.4	438.8
180.00	1.00	1.43	8.709	9.58	0.00	1.200	2.370	2.00	4.852	5.82	55.8	156.4	272.2
184.00 Appurtenance(s)	1.00	1.44	8.749	9.62	0.00	1.200	2.375	4.00	9.707	11.65	112.1	313.6	545.1
185.00	1.00	1.44	8.759	9.63	0.00	1.200	2.376	1.00	2.427	2.91	28.1	78.4	136.3
187.00 Appurtenance(s)	1.00	1.44	8.779	9.66	0.00	1.200	2.379	2.00	4.855	5.83	56.3	157.1	272.8
188.00	1.00	1.45	8.789	9.67	0.00	1.200	2.380	1.00	2.428	2.91	28.2	78.6	136.4
Totals:							188.00					6,248.6	53,469.6

Discrete Appurtenance Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

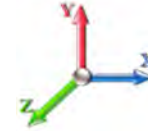


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

Dead Load Factor 1.20
Wind Load Factor 1.00



No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	187.00	APXV18-209014	3	8.779	9.657	0.59	0.80	8.69	471.65	0.000	0.000	83.91	0.00	0.00
2	187.00	APX16PV-16-PVL-E	3	8.779	9.657	0.50	0.80	11.21	715.61	0.000	0.000	108.26	0.00	0.00
3	187.00	KRY 112 144-1	12	8.779	9.657	0.54	0.80	6.80	297.55	0.000	0.000	65.69	0.00	0.00
4	187.00	IBR 1300	1	8.779	9.657	0.80	0.80	0.91	30.95	0.000	0.000	8.83	0.00	0.00
5	187.00	LNx-6515DS-A1M	3	8.779	9.657	0.64	0.80	30.57	920.55	0.000	0.000	295.23	0.00	0.00
6	187.00	782 11054	3	8.779	9.657	0.54	0.80	1.44	10.02	0.000	0.000	13.87	0.00	0.00
7	184.00	Low Profile Platform	1	8.749	9.624	1.00	1.00	46.03	3281.24	0.000	0.000	443.03	0.00	0.00
8	168.50	Low Profile Platform	1	8.588	9.447	1.00	1.00	45.82	3265.63	0.000	0.000	432.91	0.00	0.00
9	168.00	APXV9ERR18-C-A20	1	8.583	9.441	0.66	0.80	7.83	267.23	0.000	0.000	73.90	0.00	0.00
10	168.00	ACU-A20-N	4	8.583	9.441	0.80	0.80	1.73	22.77	0.000	0.000	16.32	0.00	0.00
11	168.00	TD-RRH8x20-25	3	8.583	9.441	0.54	0.80	8.32	732.06	0.000	0.000	78.58	0.00	0.00
12	168.00	800 MHz RRH	3	8.583	9.441	0.54	0.80	7.36	435.22	0.000	0.000	69.51	0.00	0.00
13	168.00	1900 MHz RRH	3	8.583	9.441	0.54	0.80	7.36	373.26	0.000	0.000	69.51	0.00	0.00
14	168.00	800 MHz Filters	3	8.583	9.441	0.54	0.80	7.36	435.22	0.000	0.000	69.51	0.00	0.00
15	168.00	APXVSP18-C-A20	2	8.583	9.441	0.66	0.80	15.65	503.99	0.000	0.000	147.79	0.00	0.00
16	168.00	APXVTM14-C-120	3	8.583	9.441	0.63	0.80	14.93	896.98	0.000	0.000	140.97	0.00	0.00
17	158.00	LGP21401	6	8.473	9.320	0.54	0.80	7.62	258.60	0.000	0.000	71.02	0.00	0.00
18	158.00	T-Arm	3	8.473	9.320	0.50	0.75	26.16	1562.07	0.000	0.000	243.86	0.00	0.00
19	158.00	P65-17-XLH-RR	2	8.473	9.320	0.60	0.80	18.93	598.22	0.000	0.000	176.43	0.00	0.00
20	158.00	SBNH-1D6565C	1	8.473	9.320	0.64	0.80	10.13	321.53	0.000	0.000	94.41	0.00	0.00
21	158.00	RRUS-11	6	8.473	9.320	0.54	0.80	11.00	1138.67	0.000	0.000	102.49	0.00	0.00
22	158.00	DC-48-60-18-8F	1	8.473	9.320	0.80	0.80	1.93	103.32	0.000	0.000	17.95	0.00	0.00
23	158.00	7770	3	8.473	9.320	0.58	0.80	12.19	712.28	0.000	0.000	113.64	0.00	0.00
24	148.00	742 213	3	8.357	9.193	0.58	0.80	11.89	579.73	0.000	0.000	109.34	0.00	0.00
25	148.00	Flush Mount	1	8.357	9.193	1.00	1.00	9.65	272.32	0.000	0.000	88.69	0.00	0.00

Totals: 18,206.68

3,135.65

Total Applied Force Summary

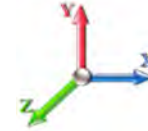
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 29

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
0.25		7.81	109.54	0.00	0.00
5.00		149.62	2240.59	0.00	0.00
10.00		155.83	2378.98	0.00	0.00
15.00		153.85	2378.24	0.00	0.00
20.00		161.03	2368.46	0.00	0.00
25.00		166.38	2353.48	0.00	0.00
30.00		170.36	2335.07	0.00	0.00
32.83		97.09	1312.22	0.00	0.00
35.00		74.87	1001.48	0.00	0.00
40.00		175.51	2240.15	0.00	0.00
43.25		114.44	1439.19	0.00	0.00
45.00		62.59	1154.91	0.00	0.00
48.92		141.42	2594.50	0.00	0.00
49.00		2.87	53.03	0.00	0.00
50.00		35.94	417.54	0.00	0.00
55.00		181.58	2072.91	0.00	0.00
60.00		181.87	2049.24	0.00	0.00
65.00		181.84	2024.86	0.00	0.00
70.00		181.51	1999.85	0.00	0.00
75.00		180.93	1974.31	0.00	0.00
76.83		65.73	716.79	0.00	0.00
80.00		113.80	1223.42	0.00	0.00
85.00		179.09	1858.27	0.00	0.00
87.50		88.82	919.79	0.00	0.00
90.00		89.81	1302.69	0.00	0.00
91.92		68.70	1014.56	0.00	0.00
92.25		11.77	174.35	0.00	0.00
95.00		98.09	955.75	0.00	0.00
100.00		177.61	1717.38	0.00	0.00
105.00		175.93	1692.95	0.00	0.00
105.58		20.20	195.19	0.00	0.00
110.00		153.73	1437.60	0.00	0.00
115.00		172.17	1576.93	0.00	0.00
120.00		170.09	1551.32	0.00	0.00
125.00		167.90	1525.52	0.00	0.00
130.00		165.61	1499.51	0.00	0.00
132.50		81.74	741.12	0.00	0.00
135.00		82.13	958.39	0.00	0.00
136.50		48.94	570.75	0.00	0.00
140.00		113.51	893.96	0.00	0.00
145.00		160.15	1257.39	0.00	0.00
148.00	(4) attachments	292.70	1597.30	0.00	0.00
150.00		62.53	417.77	0.00	0.00
155.00		154.73	1025.63	0.00	0.00
158.00	(22) attachments	911.15	5300.59	0.00	0.00
160.00		60.29	375.57	0.00	0.00

Total Applied Force Summary

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 31



165.00		148.99	919.90	0.00	0.00
168.00	(22) attachments	753.93	4209.12	0.00	0.00
168.50	(1) attachments	447.42	3354.17	0.00	0.00
170.00		43.38	263.94	0.00	0.00
175.00		142.95	861.13	0.00	0.00
178.00		84.17	507.04	0.00	0.00
180.00		55.77	317.66	0.00	0.00
184.00	(1) attachments	555.13	3917.31	0.00	0.00
185.00		28.06	159.06	0.00	0.00
187.00	(25) attachments	632.05	2764.64	0.00	0.00
188.00		28.16	136.45	0.00	0.00
	Totals:	9,384.27	84,409.44	0.00	0.00

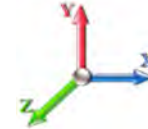
Linear Appurtenance Segment Forces (Factored)

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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

Dead Load Factor 1.20
Wind Load Factor 1.00



Iterations 29

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
0.25	1 5/8" Coax	Yes	0.25	0.000	1.98	0.09	0.00	0.062	0.000	5.168	0.00	5.66
0.25	1.25" Reinforcing	Yes	0.25	0.000	1.25	0.08	0.00	0.062	0.000	5.168	0.00	1.45
5.00	1 5/8" Coax	Yes	4.75	0.000	1.98	2.09	0.00	0.062	0.000	5.168	0.00	133.49
5.00	1.25" Reinforcing	Yes	4.75	0.000	1.25	1.81	0.00	0.062	0.000	5.168	0.00	40.72
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.30	0.00	0.063	0.000	5.168	0.00	148.50
10.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.00	0.00	0.063	0.000	5.168	0.00	47.08
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.37	0.00	0.064	0.000	5.168	0.00	153.52
15.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.06	0.00	0.064	0.000	5.168	0.00	49.78
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.41	0.00	0.065	0.000	5.483	0.00	157.25
20.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.11	0.00	0.065	0.000	5.483	0.00	51.80
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.45	0.00	0.066	0.000	5.747	0.00	160.24
25.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.14	0.00	0.066	0.000	5.747	0.00	53.44
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.48	0.00	0.067	0.000	5.972	0.00	162.75
30.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.17	0.00	0.067	0.000	5.972	0.00	54.82
32.83	1 5/8" Coax	Yes	2.83	0.000	1.98	1.41	0.00	0.068	0.000	6.087	0.00	92.83
32.83	1.25" Reinforcing	Yes	2.83	0.000	1.25	1.24	0.00	0.068	0.000	6.087	0.00	31.42
35.00	1 5/8" Coax	Yes	2.17	0.000	1.98	1.09	0.00	0.069	0.000	6.169	0.00	71.58
35.00	1.25" Reinforcing	Yes	2.17	0.000	1.25	0.95	0.00	0.069	0.000	6.169	0.00	24.31
40.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.52	0.00	0.046	0.000	6.345	0.00	166.84
40.00	1.25" Reinforcing	Yes	0.50	0.000	1.25	0.22	0.00	0.046	0.000	6.345	0.00	5.71
43.25	1 5/8" Coax	Yes	3.25	0.000	1.98	1.65	0.00	0.043	0.000	6.450	0.00	109.19
45.00	1 5/8" Coax	Yes	1.75	0.000	1.98	0.89	0.00	0.044	0.000	6.504	0.00	59.00
48.92	1 5/8" Coax	Yes	3.92	0.000	1.98	2.01	0.00	0.062	0.000	6.620	0.00	133.12
48.92	1.25" Reinforcing	Yes	2.42	0.000	1.25	1.09	0.00	0.062	0.000	6.620	0.00	28.43
49.00	1 5/8" Coax	Yes	0.08	0.000	1.98	0.04	0.00	0.073	0.000	6.622	0.00	2.72
49.00	1.25" Reinforcing	Yes	0.08	0.000	1.25	0.04	0.00	0.073	0.000	6.622	0.00	0.94
50.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.51	0.00	0.072	0.000	6.650	0.00	34.03
50.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.45	0.00	0.072	0.000	6.650	0.00	11.78
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.58	0.00	0.073	0.000	6.785	0.00	171.56
55.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.27	0.00	0.073	0.000	6.785	0.00	59.71
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.59	0.00	0.074	0.000	6.910	0.00	172.89
60.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.29	0.00	0.074	0.000	6.910	0.00	60.46
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.61	0.00	0.076	0.000	7.028	0.00	174.12
65.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.30	0.00	0.076	0.000	7.028	0.00	61.15
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.62	0.00	0.077	0.000	7.138	0.00	175.27
70.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.32	0.00	0.077	0.000	7.138	0.00	61.80
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.63	0.00	0.079	0.000	7.243	0.00	176.36
75.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.33	0.00	0.079	0.000	7.243	0.00	62.41
76.83	1 5/8" Coax	Yes	1.83	0.000	1.98	0.97	0.00	0.080	0.000	7.280	0.00	64.69
76.83	1.25" Reinforcing	Yes	1.83	0.000	1.25	0.85	0.00	0.080	0.000	7.280	0.00	22.92
80.00	1 5/8" Coax	Yes	3.17	0.000	1.98	1.68	0.00	0.073	0.000	7.342	0.00	112.46
80.00	1.25" Reinforcing	Yes	2.42	0.000	1.25	1.13	0.00	0.073	0.000	7.342	0.00	30.49
85.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.66	0.00	0.050	0.000	7.436	0.00	178.35
87.50	1 5/8" Coax	Yes	2.50	0.000	1.98	1.33	0.00	0.051	0.000	7.482	0.00	89.41
90.00	1 5/8" Coax	Yes	2.50	0.000	1.98	1.33	0.00	0.052	0.000	7.526	0.00	89.64
91.92	1 5/8" Coax	Yes	1.92	0.000	1.98	1.03	0.00	0.081	0.000	7.560	0.00	68.97
91.92	1.25" Reinforcing	Yes	1.67	0.000	1.25	0.79	0.00	0.081	0.000	7.560	0.00	21.46

Linear Appurtenance Segment Forces (Factored)

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

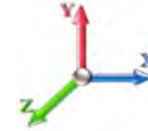


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

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)
92.25	1 5/8" Coax	Yes	0.33	0.000	1.98	0.18	0.00	0.086	0.000	7.565	0.00	11.86
92.25	1.25" Reinforcing	Yes	0.33	0.000	1.25	0.16	0.00	0.086	0.000	7.565	0.00	4.24
95.00	1 5/8" Coax	Yes	2.75	0.000	1.98	1.47	0.00	0.085	0.000	7.612	0.00	99.08
95.00	1.25" Reinforcing	Yes	2.75	0.000	1.25	1.31	0.00	0.085	0.000	7.612	0.00	35.51
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.69	0.00	0.086	0.000	7.695	0.00	180.99
100.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.38	0.00	0.086	0.000	7.695	0.00	65.04
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.70	0.00	0.088	0.000	7.774	0.00	181.79
105.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	2.39	0.00	0.088	0.000	7.774	0.00	65.50
105.58	1 5/8" Coax	Yes	0.58	0.000	1.98	0.31	0.00	0.089	0.000	7.783	0.00	21.10
105.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.28	0.00	0.089	0.000	7.783	0.00	7.60
110.00	1 5/8" Coax	Yes	4.42	0.000	1.98	2.39	0.00	0.069	0.000	7.851	0.00	161.39
110.00	1.25" Reinforcing	Yes	1.67	0.000	1.25	0.80	0.00	0.069	0.000	7.851	0.00	22.02
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.71	0.00	0.057	0.000	7.925	0.00	183.31
120.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.72	0.00	0.058	0.000	7.996	0.00	184.02
125.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.73	0.00	0.059	0.000	8.065	0.00	184.71
130.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.74	0.00	0.061	0.000	8.132	0.00	185.38
132.50	1 5/8" Coax	Yes	2.50	0.000	1.98	1.37	0.00	0.062	0.000	8.165	0.00	92.85
135.00	1 5/8" Coax	Yes	2.50	0.000	1.98	1.37	0.00	0.063	0.000	8.197	0.00	93.01
136.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.82	0.00	0.064	0.000	8.216	0.00	55.86
140.00	1 5/8" Coax	Yes	3.50	0.000	1.98	1.93	0.00	0.064	0.000	8.260	0.00	130.65
145.00	1 5/8" Coax	Yes	5.00	0.000	1.98	2.76	0.00	0.065	0.000	8.321	0.00	187.25
148.00	1 5/8" Coax	Yes	3.00	0.000	1.98	1.66	0.00	0.067	0.000	8.357	0.00	112.56
Totals:											0.0	6,112.3

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

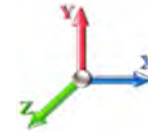


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Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind

Iterations 29

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	-84.41	-9.39	0.00	-1241.9	0.00	1241.92	5035.03	2517.52	10606.9	5311.37	0.00	0.000	0.000	0.251
0.25	-84.29	-9.42	0.00	-1239.5	0.00	1239.57	5032.22	2516.11	10592.3	5304.07	0.00	-0.004	0.000	0.188
5.00	-82.05	-9.35	0.00	-1194.8	0.00	1194.82	4978.38	2489.19	10316.4	5165.91	0.03	-0.056	0.000	0.185
10.00	-79.66	-9.26	0.00	-1148.0	0.00	1148.09	4920.91	2460.46	10028.2	5021.57	0.12	-0.111	0.000	0.182
15.00	-77.27	-9.18	0.00	-1101.7	0.00	1101.77	4862.63	2431.31	9742.31	4878.39	0.26	-0.166	0.000	0.179
20.00	-74.89	-9.08	0.00	-1055.8	0.00	1055.88	4803.53	2401.76	9458.77	4736.42	0.47	-0.222	0.000	0.176
25.00	-72.53	-8.98	0.00	-1010.4	0.00	1010.47	4743.61	2371.81	9177.73	4595.68	0.73	-0.278	0.000	0.172
30.00	-70.19	-8.85	0.00	-965.58	0.00	965.58	4682.88	2341.44	8899.25	4456.24	1.05	-0.334	0.000	0.169
32.83	-68.88	-8.78	0.00	-940.54	0.00	940.54	4648.14	2324.07	8742.80	4377.90	1.26	-0.366	0.000	0.167
32.83	-68.88	-8.78	0.00	-940.54	0.00	940.54	4648.14	2324.07	8742.80	4377.90	1.26	-0.366	0.000	0.167
35.00	-67.87	-8.76	0.00	-921.50	0.00	921.50	4621.33	2310.66	8623.42	4318.12	1.43	-0.390	0.000	0.228
40.00	-65.62	-8.64	0.00	-877.72	0.00	877.72	4558.96	2279.48	8350.33	4181.37	1.88	-0.468	0.000	0.224
43.25	-64.18	-8.55	0.00	-849.65	0.00	849.65	4517.98	2258.99	8174.32	4093.24	2.22	-0.519	0.000	0.222
45.00	-63.01	-8.53	0.00	-834.68	0.00	834.68	4495.78	2247.89	8080.06	4046.03	2.41	-0.547	0.000	0.220
48.92	-60.42	-8.40	0.00	-801.24	0.00	801.24	4445.67	2222.84	7870.19	3940.94	2.89	-0.608	0.000	0.157
49.00	-60.36	-8.40	0.00	-800.57	0.00	800.57	3699.57	1849.78	6681.20	3345.56	2.90	-0.609	0.000	0.168
50.00	-59.94	-8.40	0.00	-792.17	0.00	792.17	3689.91	1844.95	6638.39	3324.13	3.03	-0.621	0.000	0.179
55.00	-57.86	-8.25	0.00	-750.19	0.00	750.19	3641.14	1820.57	6425.47	3217.51	3.71	-0.682	0.000	0.174
60.00	-55.81	-8.10	0.00	-708.92	0.00	708.92	3591.55	1795.77	6214.50	3111.87	4.46	-0.743	0.000	0.169
65.00	-53.78	-7.95	0.00	-668.40	0.00	668.40	3541.14	1770.57	6005.55	3007.24	5.27	-0.803	0.000	0.164
70.00	-51.77	-7.80	0.00	-628.64	0.00	628.64	3489.91	1744.96	5798.71	2903.67	6.14	-0.863	0.000	0.159
75.00	-49.79	-7.62	0.00	-589.67	0.00	589.67	3437.87	1718.94	5594.07	2801.19	7.07	-0.922	0.000	0.153
76.83	-49.07	-7.57	0.00	-575.72	0.00	575.72	3418.62	1709.31	5519.73	2763.97	7.43	-0.944	0.000	0.151
76.83	-49.07	-7.57	0.00	-575.72	0.00	575.72	3418.62	1709.31	5519.73	2763.97	7.43	-0.944	0.000	0.151
80.00	-47.84	-7.48	0.00	-551.74	0.00	551.74	3385.02	1692.51	5391.70	2699.86	8.07	-0.982	0.000	0.219
85.00	-45.98	-7.32	0.00	-514.31	0.00	514.31	3331.35	1665.67	5191.69	2599.71	9.15	-1.068	0.000	0.212
87.50	-45.06	-7.25	0.00	-496.00	0.00	496.00	3304.20	1652.10	5092.60	2550.09	9.72	-1.112	0.000	0.208
90.00	-43.75	-7.17	0.00	-477.87	0.00	477.87	3276.86	1638.43	4994.13	2500.78	10.31	-1.155	0.000	0.204
91.92	-42.74	-7.09	0.00	-464.12	0.00	464.12	3255.72	1627.86	4918.94	2463.13	10.78	-1.188	0.000	0.141
92.25	-42.56	-7.09	0.00	-461.78	0.00	461.78	2609.22	1304.61	4017.17	2011.57	10.86	-1.192	0.000	0.151
95.00	-41.60	-7.01	0.00	-442.28	0.00	442.28	2587.46	1293.73	3934.74	1970.29	11.56	-1.225	0.000	0.161
100.00	-39.88	-6.83	0.00	-407.26	0.00	407.26	2547.26	1273.63	3786.04	1895.83	12.88	-1.289	0.000	0.153
105.00	-38.19	-6.64	0.00	-373.09	0.00	373.09	2506.24	1253.12	3638.92	1822.16	14.26	-1.351	0.000	0.145
105.58	-37.99	-6.64	0.00	-369.24	0.00	369.24	2501.42	1250.71	3621.96	1813.67	14.43	-1.358	0.000	0.144
105.58	-37.99	-6.64	0.00	-369.24	0.00	369.24	2501.42	1250.71	3621.96	1813.67	14.43	-1.358	0.000	0.144
110.00	-36.55	-6.49	0.00	-339.90	0.00	339.90	2464.40	1232.20	3493.46	1749.33	15.71	-1.411	0.000	0.209
115.00	-34.97	-6.34	0.00	-307.43	0.00	307.43	2421.75	1210.87	3349.75	1677.36	17.23	-1.500	0.000	0.198
120.00	-33.41	-6.17	0.00	-275.75	0.00	275.75	2378.28	1189.14	3207.87	1606.32	18.85	-1.587	0.000	0.186
125.00	-31.88	-6.01	0.00	-244.88	0.00	244.88	2333.99	1167.00	3067.90	1536.23	20.56	-1.670	0.000	0.173
130.00	-30.38	-5.83	0.00	-214.85	0.00	214.85	2288.89	1144.45	2929.94	1467.15	22.35	-1.749	0.000	0.160
132.50	-29.64	-5.74	0.00	-200.28	0.00	200.28	2266.03	1133.02	2861.73	1432.99	23.27	-1.788	0.000	0.153
135.00	-28.68	-5.65	0.00	-185.92	0.00	185.92	2239.33	1119.66	2789.52	1396.83	24.22	-1.825	0.000	0.146
136.50	-28.11	-5.60	0.00	-177.45	0.00	177.45	1414.34	707.17	1783.76	893.21	24.80	-1.847	0.000	0.219
140.00	-27.21	-5.49	0.00	-157.86	0.00	157.86	1397.90	698.95	1729.39	865.98	26.17	-1.896	0.000	0.202
145.00	-25.96	-5.31	0.00	-130.43	0.00	130.43	1373.73	686.86	1652.26	827.36	28.20	-1.982	0.000	0.177
148.00	-24.37	-4.98	0.00	-114.49	0.00	114.49	1358.83	679.41	1606.31	804.35	29.46	-2.029	0.000	0.160
150.00	-23.95	-4.92	0.00	-104.53	0.00	104.53	1348.73	674.37	1575.83	789.09	30.32	-2.059	0.000	0.150
155.00	-22.92	-4.75	0.00	-79.91	0.00	79.91	1322.92	661.46	1500.20	751.22	32.51	-2.124	0.000	0.124

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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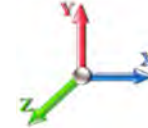
158.00	-17.66	-3.65	0.00	-65.66	0.00	65.66	1307.05	653.52	1455.24	728.70	33.86	-2.158	0.000	0.104
160.00	-17.29	-3.59	0.00	-58.36	0.00	58.36	1296.30	648.15	1425.45	713.78	34.77	-2.178	0.000	0.095
165.00	-16.37	-3.41	0.00	-40.43	0.00	40.43	1268.86	634.43	1351.65	676.83	37.07	-2.220	0.000	0.073
168.00	-12.19	-2.50	0.00	-30.19	0.00	30.19	1252.00	626.00	1307.87	654.91	38.47	-2.240	0.000	0.056
168.50	-8.86	-1.92	0.00	-28.95	0.00	28.95	1249.16	624.58	1300.61	651.27	38.71	-2.242	0.000	0.052
170.00	-8.60	-1.87	0.00	-26.07	0.00	26.07	1240.60	620.30	1278.90	640.40	39.41	-2.251	0.000	0.048
175.00	-7.74	-1.69	0.00	-16.73	0.00	16.73	1211.52	605.76	1207.28	604.54	41.78	-2.273	0.000	0.034
178.00	-7.24	-1.59	0.00	-11.66	0.00	11.66	1193.69	596.84	1164.89	583.31	43.21	-2.282	0.000	0.026
178.00	-7.24	-1.59	0.00	-11.66	0.00	11.66	975.84	487.92	954.81	478.11	43.21	-2.282	0.000	0.032
180.00	-6.92	-1.52	0.00	-8.48	0.00	8.48	975.84	487.92	954.81	478.11	44.17	-2.287	0.000	0.025
184.00	-3.03	-0.81	0.00	-2.40	0.00	2.40	975.84	487.92	954.81	478.11	46.09	-2.293	0.000	0.008
185.00	-2.87	-0.78	0.00	-1.59	0.00	1.59	975.84	487.92	954.81	478.11	46.57	-2.294	0.000	0.006
187.00	-0.14	-0.03	0.00	-0.03	0.00	0.03	975.84	487.92	954.81	478.11	47.53	-2.294	0.000	0.000
188.00	0.00	-0.03	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	48.01	-2.294	0.000	0.000

Seismic Segment Forces (Factored)

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0E						Iterations 26
Gust Response Factor	1.10			Sds	0.19	Ss 0.17
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.10	S1 0.06
Wind Load Factor	0.00	Structure Frequency	0.26	SA	0.03	Seismic Importance Factor 1.00

Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
0.25	RB1	60.58	0.00	0.00	0.00	0.08	
5.00		1141.6	0.00	0.03	0.01	20.38	
10.00		1182.6	0.01	0.05	0.03	31.04	
15.00		1163.0	0.01	0.06	0.03	35.78	
20.00		1143.3	0.02	0.06	0.04	38.08	
25.00		1123.7	0.03	0.07	0.04	39.09	
30.00		1104.1	0.05	0.07	0.04	39.46	
32.83	RT1	616.26	0.06	0.07	0.04	22.29	
35.00		468.28	0.07	0.07	0.04	17.09	
40.00		1064.9	0.09	0.07	0.04	39.61	
43.25	Bot - Section 2	681.69	0.10	0.07	0.04	25.68	
45.00		681.08	0.11	0.07	0.04	25.83	
48.92	RB2	1509.4	0.13	0.07	0.03	58.14	
49.00	Top - Section 1	30.57	0.13	0.07	0.03	1.18	
50.00		177.78	0.13	0.07	0.03	6.88	
55.00		878.82	0.16	0.07	0.03	34.54	
60.00		862.01	0.19	0.06	0.02	34.15	
65.00		845.20	0.23	0.06	0.02	33.23	
70.00		828.39	0.26	0.05	0.02	31.46	
75.00		811.58	0.30	0.05	0.01	28.49	
76.83	RT2	292.84	0.32	0.04	0.01	9.83	
80.00		501.94	0.34	0.03	0.01	15.13	
85.00		777.96	0.39	0.02	0.01	17.60	
87.50	Bot - Section 3	382.68	0.41	0.02	0.01	6.83	
90.00		699.67	0.43	0.01	0.01	8.72	
91.92	RB3	532.12	0.45	0.00	0.01	4.24	
92.25	Top - Section 2	91.00	0.46	0.00	0.01	0.65	
95.00		345.80	0.48	-0.01	0.01	0.09	
100.00		617.88	0.53	-0.03	0.01	-7.82	
105.00		603.87	0.59	-0.05	0.01	-14.84	
105.58	RT3	69.14	0.60	-0.05	0.01	-1.79	
110.00		520.72	0.65	-0.07	0.02	-17.73	
115.00		575.85	0.71	-0.09	0.03	-23.21	
120.00		561.85	0.77	-0.11	0.05	-24.20	
125.00		547.84	0.84	-0.12	0.06	-23.25	
130.00		533.83	0.90	-0.12	0.09	-20.57	
132.50	Bot - Section 4	261.66	0.94	-0.12	0.10	-9.26	
135.00		442.05	0.97	-0.12	0.12	-13.92	
136.50	Top - Section 3	262.37	1.00	-0.11	0.13	-7.55	
140.00		251.27	1.05	-0.09	0.16	-5.38	
145.00		350.62	1.12	-0.06	0.20	-2.91	
148.00	Appurtenance(s)	421.66	1.17	-0.02	0.23	0.43	
150.00		135.15	1.20	0.01	0.26	1.06	
155.00		331.00	1.28	0.10	0.32	8.92	
158.00	Appurtenance(s)	1823.9	1.33	0.17	0.37	72.80	

Seismic Segment Forces (Factored)

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017	
Site Name: Enfield-Moody Rd.	Exposure: C		
Height: 188.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 37



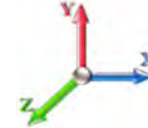
160.00		127.30	1.37	0.23	0.40	6.26
165.00		311.39	1.46	0.40	0.49	23.20
168.00	Appurtenance(s)	1196.1	1.51	0.52	0.55	109.15
168.50	Appurtenance(s)	1530.0	1.52	0.55	0.56	144.06
170.00		89.44	1.55	0.62	0.60	9.22
175.00		291.77	1.64	0.90	0.72	39.35
178.00	Top - Section 4	170.35	1.69	1.10	0.81	26.49
180.00		96.44	1.73	1.25	0.87	16.39
184.00	Appurtenance(s)	1692.8	1.81	1.59	1.00	339.46
185.00		48.22	1.83	1.68	1.03	10.05
187.00	Appurtenance(s)	567.04	1.87	1.88	1.10	127.52
188.00		48.22	1.89	1.98	1.14	11.25
Totals:		34,479.1				1,398.7
						Total Wind: 27,989.6

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

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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 + 1.0E							Iterations 26
Gust Response Factor	1.10			Sds	0.19	Ss	0.17
Dead Load Factor	1.20	Seismic Load Factor	1.00	Sd1	0.10	S1	0.06
Wind Load Factor	0.00	Structure Frequency	0.26	SA	0.03	Seismic Importance Factor	1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-49.10	-1.57	0.00	-205.63	0.00	205.63	5035.03	2517.52	10606.9	5311.37	0.00	0.00	0.00	0.048
0.25	-49.02	-1.57	0.00	-205.24	0.00	205.24	5032.22	2516.11	10592.3	5304.07	0.00	0.00	0.00	0.036
5.00	-47.44	-1.56	0.00	-197.76	0.00	197.76	4978.38	2489.19	10316.4	5165.91	0.01	-0.01	0.00	0.036
10.00	-45.79	-1.54	0.00	-189.95	0.00	189.95	4920.91	2460.46	10028.2	5021.57	0.02	-0.02	0.00	0.035
15.00	-44.17	-1.51	0.00	-182.27	0.00	182.27	4862.63	2431.31	9742.31	4878.39	0.04	-0.03	0.00	0.034
20.00	-42.57	-1.48	0.00	-174.73	0.00	174.73	4803.53	2401.76	9458.77	4736.42	0.08	-0.04	0.00	0.034
25.00	-41.00	-1.44	0.00	-167.36	0.00	167.36	4743.61	2371.81	9177.73	4595.68	0.12	-0.05	0.00	0.033
30.00	-39.45	-1.41	0.00	-160.15	0.00	160.15	4682.88	2341.44	8899.25	4456.24	0.17	-0.06	0.00	0.032
32.83	-38.58	-1.39	0.00	-156.17	0.00	156.17	4648.14	2324.07	8742.80	4377.90	0.21	-0.06	0.00	0.032
32.83	-38.58	-1.39	0.00	-156.17	0.00	156.17	4648.14	2324.07	8742.80	4377.90	0.21	-0.06	0.00	0.032
35.00	-37.92	-1.37	0.00	-153.17	0.00	153.17	4621.33	2310.66	8623.42	4318.12	0.24	-0.06	0.00	0.044
40.00	-36.42	-1.34	0.00	-146.30	0.00	146.30	4558.96	2279.48	8350.33	4181.37	0.31	-0.08	0.00	0.043
43.25	-35.45	-1.32	0.00	-141.95	0.00	141.95	4517.98	2258.99	8174.32	4093.24	0.37	-0.09	0.00	0.043
45.00	-34.56	-1.29	0.00	-139.64	0.00	139.64	4495.78	2247.89	8080.06	4046.03	0.40	-0.09	0.00	0.042
48.92	-32.57	-1.23	0.00	-134.57	0.00	134.57	4445.67	2222.84	7870.19	3940.94	0.48	-0.10	0.00	0.030
49.00	-32.53	-1.23	0.00	-134.47	0.00	134.47	3699.57	1849.78	6681.20	3345.56	0.48	-0.10	0.00	0.032
50.00	-32.27	-1.23	0.00	-133.24	0.00	133.24	3689.91	1844.95	6638.39	3324.13	0.50	-0.10	0.00	0.034
55.00	-30.99	-1.20	0.00	-127.09	0.00	127.09	3641.14	1820.57	6425.47	3217.51	0.61	-0.11	0.00	0.034
60.00	-29.73	-1.17	0.00	-121.09	0.00	121.09	3591.55	1795.77	6214.50	3111.87	0.74	-0.12	0.00	0.033
65.00	-28.49	-1.14	0.00	-115.26	0.00	115.26	3541.14	1770.57	6005.55	3007.24	0.87	-0.13	0.00	0.032
70.00	-27.27	-1.11	0.00	-109.57	0.00	109.57	3489.91	1744.96	5798.71	2903.67	1.02	-0.14	0.00	0.031
75.00	-26.07	-1.08	0.00	-104.04	0.00	104.04	3437.87	1718.94	5594.07	2801.19	1.18	-0.15	0.00	0.031
76.83	-25.64	-1.07	0.00	-102.06	0.00	102.06	3418.62	1709.31	5519.73	2763.97	1.24	-0.16	0.00	0.030
76.83	-25.64	-1.07	0.00	-102.06	0.00	102.06	3418.62	1709.31	5519.73	2763.97	1.24	-0.16	0.00	0.030
80.00	-24.89	-1.06	0.00	-98.67	0.00	98.67	3385.02	1692.51	5391.70	2699.86	1.35	-0.17	0.00	0.044
85.00	-23.73	-1.04	0.00	-93.38	0.00	93.38	3331.35	1665.67	5191.69	2599.71	1.53	-0.18	0.00	0.043
87.50	-23.16	-1.04	0.00	-90.78	0.00	90.78	3304.20	1652.10	5092.60	2550.09	1.62	-0.19	0.00	0.043
90.00	-22.21	-1.03	0.00	-88.19	0.00	88.19	3276.86	1638.43	4994.13	2500.78	1.72	-0.20	0.00	0.042
91.92	-21.48	-1.02	0.00	-86.22	0.00	86.22	3255.72	1627.86	4918.94	2463.13	1.81	-0.20	0.00	0.029
92.25	-21.36	-1.02	0.00	-85.88	0.00	85.88	2609.22	1304.61	4017.17	2011.57	1.82	-0.20	0.00	0.031
95.00	-20.82	-1.02	0.00	-83.07	0.00	83.07	2587.46	1293.73	3934.74	1970.29	1.94	-0.21	0.00	0.034
100.00	-19.85	-1.02	0.00	-77.96	0.00	77.96	2547.26	1273.63	3786.04	1895.83	2.17	-0.22	0.00	0.033
105.00	-18.90	-1.02	0.00	-72.84	0.00	72.84	2506.24	1253.12	3638.92	1822.16	2.40	-0.23	0.00	0.031
105.58	-18.80	-1.02	0.00	-72.25	0.00	72.25	2501.42	1250.71	3621.96	1813.67	2.43	-0.24	0.00	0.031
105.58	-18.80	-1.02	0.00	-72.25	0.00	72.25	2501.42	1250.71	3621.96	1813.67	2.43	-0.24	0.00	0.031
110.00	-17.97	-1.02	0.00	-67.72	0.00	67.72	2464.40	1232.20	3493.46	1749.33	2.66	-0.25	0.00	0.046
115.00	-17.05	-1.03	0.00	-62.60	0.00	62.60	2421.75	1210.87	3349.75	1677.36	2.92	-0.26	0.00	0.044
120.00	-16.16	-1.03	0.00	-57.47	0.00	57.47	2378.28	1189.14	3207.87	1606.32	3.21	-0.28	0.00	0.043
125.00	-15.27	-1.03	0.00	-52.34	0.00	52.34	2333.99	1167.00	3067.90	1536.23	3.51	-0.30	0.00	0.041
130.00	-14.41	-1.03	0.00	-47.20	0.00	47.20	2288.89	1144.45	2929.94	1467.15	3.84	-0.32	0.00	0.038
132.50	-13.98	-1.03	0.00	-44.64	0.00	44.64	2266.03	1133.02	2861.73	1432.99	4.00	-0.32	0.00	0.037
135.00	-13.34	-1.02	0.00	-42.08	0.00	42.08	2239.33	1119.66	2789.52	1396.83	4.18	-0.33	0.00	0.036
136.50	-12.95	-1.02	0.00	-40.54	0.00	40.54	1414.34	707.17	1783.76	893.21	4.28	-0.34	0.00	0.055
140.00	-12.49	-1.02	0.00	-36.97	0.00	36.97	1397.90	698.95	1729.39	865.98	4.53	-0.35	0.00	0.052
145.00	-11.85	-1.02	0.00	-31.85	0.00	31.85	1373.73	686.86	1652.26	827.36	4.91	-0.37	0.00	0.047
148.00	-11.21	-1.02	0.00	-28.78	0.00	28.78	1358.83	679.41	1606.31	804.35	5.15	-0.38	0.00	0.044
150.00	-10.97	-1.02	0.00	-26.74	0.00	26.74	1348.73	674.37	1575.83	789.09	5.31	-0.39	0.00	0.042

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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155.00	-10.38	-1.01	0.00	-21.64	0.00	21.64	1322.92	661.46	1500.20	751.22	5.73	-0.41	0.037
158.00	-8.08	-0.92	0.00	-18.62	0.00	18.62	1307.05	653.52	1455.24	728.70	5.98	-0.42	0.032
160.00	-7.88	-0.91	0.00	-16.78	0.00	16.78	1296.30	648.15	1425.45	713.78	6.16	-0.42	0.030
165.00	-7.38	-0.89	0.00	-12.20	0.00	12.20	1268.86	634.43	1351.65	676.83	6.61	-0.43	0.024
168.00	-5.87	-0.77	0.00	-9.54	0.00	9.54	1252.00	626.00	1307.87	654.91	6.88	-0.44	0.019
168.50	-4.02	-0.61	0.00	-9.15	0.00	9.15	1249.16	624.58	1300.61	651.27	6.93	-0.44	0.017
170.00	-3.88	-0.60	0.00	-8.24	0.00	8.24	1240.60	620.30	1278.90	640.40	7.07	-0.44	0.016
175.00	-3.42	-0.56	0.00	-5.24	0.00	5.24	1211.52	605.76	1207.28	604.54	7.54	-0.45	0.011
178.00	-3.14	-0.53	0.00	-3.56	0.00	3.56	1193.69	596.84	1164.89	583.31	7.82	-0.45	0.009
178.00	-3.14	-0.53	0.00	-3.56	0.00	3.56	975.84	487.92	954.81	478.11	7.82	-0.45	0.011
180.00	-2.98	-0.51	0.00	-2.50	0.00	2.50	975.84	487.92	954.81	478.11	8.01	-0.45	0.008
184.00	-0.86	-0.16	0.00	-0.46	0.00	0.46	975.84	487.92	954.81	478.11	8.39	-0.46	0.002
185.00	-0.78	-0.14	0.00	-0.30	0.00	0.30	975.84	487.92	954.81	478.11	8.49	-0.46	0.001
187.00	-0.06	-0.01	0.00	-0.01	0.00	0.01	975.84	487.92	954.81	478.11	8.68	-0.46	0.000
188.00	0.00	-0.01	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	8.78	-0.46	0.000

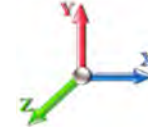
Seismic Segment Forces (Factored)

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0E						Iterations 26
Gust Response Factor	1.10			Sds	0.19	Ss 0.17
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1	0.10	S1 0.06
Wind Load Factor	0.00	Structure Frequency	0.26	SA	0.03	Seismic Importance Factor 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	0.00	
0.25	RB1	60.58	0.00	0.00	0.00	0.08	
5.00		1141.6	0.00	0.03	0.01	20.38	
10.00		1182.6	0.01	0.05	0.03	31.04	
15.00		1163.0	0.01	0.06	0.03	35.78	
20.00		1143.3	0.02	0.06	0.04	38.08	
25.00		1123.7	0.03	0.07	0.04	39.09	
30.00		1104.1	0.05	0.07	0.04	39.46	
32.83	RT1	616.26	0.06	0.07	0.04	22.29	
35.00		468.28	0.07	0.07	0.04	17.09	
40.00		1064.9	0.09	0.07	0.04	39.61	
43.25	Bot - Section 2	681.69	0.10	0.07	0.04	25.68	
45.00		681.08	0.11	0.07	0.04	25.83	
48.92	RB2	1509.4	0.13	0.07	0.03	58.14	
49.00	Top - Section 1	30.57	0.13	0.07	0.03	1.18	
50.00		177.78	0.13	0.07	0.03	6.88	
55.00		878.82	0.16	0.07	0.03	34.54	
60.00		862.01	0.19	0.06	0.02	34.15	
65.00		845.20	0.23	0.06	0.02	33.23	
70.00		828.39	0.26	0.05	0.02	31.46	
75.00		811.58	0.30	0.05	0.01	28.49	
76.83	RT2	292.84	0.32	0.04	0.01	9.83	
80.00		501.94	0.34	0.03	0.01	15.13	
85.00		777.96	0.39	0.02	0.01	17.60	
87.50	Bot - Section 3	382.68	0.41	0.02	0.01	6.83	
90.00		699.67	0.43	0.01	0.01	8.72	
91.92	RB3	532.12	0.45	0.00	0.01	4.24	
92.25	Top - Section 2	91.00	0.46	0.00	0.01	0.65	
95.00		345.80	0.48	-0.01	0.01	0.09	
100.00		617.88	0.53	-0.03	0.01	-7.82	
105.00		603.87	0.59	-0.05	0.01	-14.84	
105.58	RT3	69.14	0.60	-0.05	0.01	-1.79	
110.00		520.72	0.65	-0.07	0.02	-17.73	
115.00		575.85	0.71	-0.09	0.03	-23.21	
120.00		561.85	0.77	-0.11	0.05	-24.20	
125.00		547.84	0.84	-0.12	0.06	-23.25	
130.00		533.83	0.90	-0.12	0.09	-20.57	
132.50	Bot - Section 4	261.66	0.94	-0.12	0.10	-9.26	
135.00		442.05	0.97	-0.12	0.12	-13.92	
136.50	Top - Section 3	262.37	1.00	-0.11	0.13	-7.55	
140.00		251.27	1.05	-0.09	0.16	-5.38	
145.00		350.62	1.12	-0.06	0.20	-2.91	
148.00	Appurtenance(s)	421.66	1.17	-0.02	0.23	0.43	
150.00		135.15	1.20	0.01	0.26	1.06	
155.00		331.00	1.28	0.10	0.32	8.92	
158.00	Appurtenance(s)	1823.9	1.33	0.17	0.37	72.80	

Seismic Segment Forces (Factored)

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Page: 41
	Struct Class: II	



160.00		127.30	1.37	0.23	0.40	6.26
165.00		311.39	1.46	0.40	0.49	23.20
168.00	Appurtenance(s)	1196.1	1.51	0.52	0.55	109.15
168.50	Appurtenance(s)	1530.0	1.52	0.55	0.56	144.06
170.00		89.44	1.55	0.62	0.60	9.22
175.00		291.77	1.64	0.90	0.72	39.35
178.00	Top - Section 4	170.35	1.69	1.10	0.81	26.49
180.00		96.44	1.73	1.25	0.87	16.39
184.00	Appurtenance(s)	1692.8	1.81	1.59	1.00	339.46
185.00		48.22	1.83	1.68	1.03	10.05
187.00	Appurtenance(s)	567.04	1.87	1.88	1.10	127.52
188.00		48.22	1.89	1.98	1.14	11.25
	Totals:	34,479.1				1,398.7
						Total Wind: 27,989.6

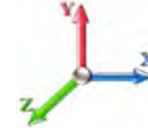
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 0.9D + 1.0E								Iterations 26
Gust Response Factor	1.10					Sds 0.19	Ss 0.17	
Dead Load Factor	0.90	Seismic Load Factor	1.00	Sd1 0.10			S1 0.06	
Wind Load Factor	0.00	Structure Frequency	0.26	SA 0.03	Seismic Importance Factor	1.00		

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.83	-1.57	0.00	-202.80	0.00	202.80	5035.03	2517.52	10606.9	5311.37	0.00	0.00	0.00	0.045
0.25	-36.76	-1.57	0.00	-202.41	0.00	202.41	5032.22	2516.11	10592.3	5304.07	0.00	0.00	0.00	0.034
5.00	-35.58	-1.56	0.00	-194.93	0.00	194.93	4978.38	2489.19	10316.4	5165.91	0.00	-0.01	0.034	
10.00	-34.34	-1.53	0.00	-187.14	0.00	187.14	4920.91	2460.46	10028.2	5021.57	0.02	-0.02	0.033	
15.00	-33.13	-1.50	0.00	-179.48	0.00	179.48	4862.63	2431.31	9742.31	4878.39	0.04	-0.03	0.032	
20.00	-31.93	-1.47	0.00	-171.98	0.00	171.98	4803.53	2401.76	9458.77	4736.42	0.08	-0.04	0.032	
25.00	-30.75	-1.43	0.00	-164.64	0.00	164.64	4743.61	2371.81	9177.73	4595.68	0.12	-0.05	0.031	
30.00	-29.59	-1.40	0.00	-157.48	0.00	157.48	4682.88	2341.44	8899.25	4456.24	0.17	-0.05	0.030	
32.83	-28.94	-1.37	0.00	-153.53	0.00	153.53	4648.14	2324.07	8742.80	4377.90	0.21	-0.06	0.030	
32.83	-28.94	-1.37	0.00	-153.53	0.00	153.53	4648.14	2324.07	8742.80	4377.90	0.21	-0.06	0.030	
35.00	-28.44	-1.36	0.00	-150.55	0.00	150.55	4621.33	2310.66	8623.42	4318.12	0.23	-0.06	0.041	
40.00	-27.31	-1.33	0.00	-143.74	0.00	143.74	4558.96	2279.48	8350.33	4181.37	0.31	-0.08	0.040	
43.25	-26.59	-1.30	0.00	-139.43	0.00	139.43	4517.98	2258.99	8174.32	4093.24	0.36	-0.08	0.040	
45.00	-25.92	-1.28	0.00	-137.16	0.00	137.16	4495.78	2247.89	8080.06	4046.03	0.39	-0.09	0.040	
48.92	-24.43	-1.22	0.00	-132.15	0.00	132.15	4445.67	2222.84	7870.19	3940.94	0.47	-0.10	0.028	
49.00	-24.40	-1.22	0.00	-132.05	0.00	132.05	3699.57	1849.78	6681.20	3345.56	0.47	-0.10	0.030	
50.00	-24.20	-1.21	0.00	-130.83	0.00	130.83	3689.91	1844.95	6638.39	3324.13	0.49	-0.10	0.032	
55.00	-23.24	-1.18	0.00	-124.76	0.00	124.76	3641.14	1820.57	6425.47	3217.51	0.61	-0.11	0.032	
60.00	-22.30	-1.15	0.00	-118.85	0.00	118.85	3591.55	1795.77	6214.50	3111.87	0.73	-0.12	0.031	
65.00	-21.37	-1.12	0.00	-113.10	0.00	113.10	3541.14	1770.57	6005.55	3007.24	0.86	-0.13	0.030	
70.00	-20.45	-1.09	0.00	-107.50	0.00	107.50	3489.91	1744.96	5798.71	2903.67	1.00	-0.14	0.029	
75.00	-19.55	-1.06	0.00	-102.06	0.00	102.06	3437.87	1718.94	5594.07	2801.19	1.16	-0.15	0.029	
76.83	-19.23	-1.05	0.00	-100.12	0.00	100.12	3418.62	1709.31	5519.73	2763.97	1.22	-0.16	0.028	
76.83	-19.23	-1.05	0.00	-100.12	0.00	100.12	3418.62	1709.31	5519.73	2763.97	1.22	-0.16	0.028	
80.00	-18.67	-1.04	0.00	-96.79	0.00	96.79	3385.02	1692.51	5391.70	2699.86	1.32	-0.16	0.041	
85.00	-17.80	-1.02	0.00	-91.60	0.00	91.60	3331.35	1665.67	5191.69	2599.71	1.50	-0.18	0.041	
87.50	-17.37	-1.02	0.00	-89.04	0.00	89.04	3304.20	1652.10	5092.60	2550.09	1.60	-0.19	0.040	
90.00	-16.66	-1.01	0.00	-86.51	0.00	86.51	3276.86	1638.43	4994.13	2500.78	1.70	-0.19	0.040	
91.92	-16.11	-1.00	0.00	-84.57	0.00	84.57	3255.72	1627.86	4918.94	2463.13	1.78	-0.20	0.028	
92.25	-16.02	-1.00	0.00	-84.24	0.00	84.24	2609.22	1304.61	4017.17	2011.57	1.79	-0.20	0.030	
95.00	-15.62	-1.00	0.00	-81.49	0.00	81.49	2587.46	1293.73	3934.74	1970.29	1.91	-0.21	0.032	
100.00	-14.89	-1.00	0.00	-76.48	0.00	76.48	2547.26	1273.63	3786.04	1895.83	2.13	-0.22	0.031	
105.00	-14.18	-1.00	0.00	-71.46	0.00	71.46	2506.24	1253.12	3638.92	1822.16	2.36	-0.23	0.030	
105.58	-14.10	-1.00	0.00	-70.88	0.00	70.88	2501.42	1250.71	3621.96	1813.67	2.39	-0.23	0.029	
105.58	-14.10	-1.00	0.00	-70.88	0.00	70.88	2501.42	1250.71	3621.96	1813.67	2.39	-0.23	0.029	
110.00	-13.48	-1.00	0.00	-66.45	0.00	66.45	2464.40	1232.20	3493.46	1749.33	2.61	-0.24	0.043	
115.00	-12.79	-1.00	0.00	-61.43	0.00	61.43	2421.75	1210.87	3349.75	1677.36	2.87	-0.26	0.042	
120.00	-12.12	-1.01	0.00	-56.41	0.00	56.41	2378.28	1189.14	3207.87	1606.32	3.15	-0.28	0.040	
125.00	-11.45	-1.01	0.00	-51.38	0.00	51.38	2333.99	1167.00	3067.90	1536.23	3.45	-0.29	0.038	
130.00	-10.80	-1.00	0.00	-46.36	0.00	46.36	2288.89	1144.45	2929.94	1467.15	3.77	-0.31	0.036	
132.50	-10.48	-1.00	0.00	-43.85	0.00	43.85	2266.03	1133.02	2861.73	1432.99	3.93	-0.32	0.035	
135.00	-10.00	-1.00	0.00	-41.34	0.00	41.34	2239.33	1119.66	2789.52	1396.83	4.10	-0.33	0.034	
136.50	-9.71	-1.00	0.00	-39.84	0.00	39.84	1414.34	707.17	1783.76	893.21	4.21	-0.33	0.051	
140.00	-9.37	-1.00	0.00	-36.33	0.00	36.33	1397.90	698.95	1729.39	865.98	4.46	-0.34	0.049	
145.00	-8.88	-1.00	0.00	-31.32	0.00	31.32	1373.73	686.86	1652.26	827.36	4.83	-0.36	0.044	
148.00	-8.40	-1.00	0.00	-28.31	0.00	28.31	1358.83	679.41	1606.31	804.35	5.06	-0.38	0.041	
150.00	-8.23	-1.00	0.00	-26.31	0.00	26.31	1348.73	674.37	1575.83	789.09	5.22	-0.38	0.039	

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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155.00	-7.79	-0.99	0.00	-21.31	0.00	21.31	1322.92	661.46	1500.20	751.22	5.63	-0.40	0.034
158.00	-6.06	-0.91	0.00	-18.34	0.00	18.34	1307.05	653.52	1455.24	728.70	5.88	-0.41	0.030
160.00	-5.91	-0.90	0.00	-16.53	0.00	16.53	1296.30	648.15	1425.45	713.78	6.05	-0.41	0.028
165.00	-5.53	-0.87	0.00	-12.04	0.00	12.04	1268.86	634.43	1351.65	676.83	6.49	-0.43	0.022
168.00	-4.40	-0.76	0.00	-9.42	0.00	9.42	1252.00	626.00	1307.87	654.91	6.76	-0.43	0.018
168.50	-3.02	-0.60	0.00	-9.04	0.00	9.04	1249.16	624.58	1300.61	651.27	6.81	-0.43	0.016
170.00	-2.91	-0.59	0.00	-8.13	0.00	8.13	1240.60	620.30	1278.90	640.40	6.95	-0.44	0.015
175.00	-2.56	-0.55	0.00	-5.17	0.00	5.17	1211.52	605.76	1207.28	604.54	7.41	-0.44	0.011
178.00	-2.36	-0.52	0.00	-3.52	0.00	3.52	1193.69	596.84	1164.89	583.31	7.68	-0.45	0.008
178.00	-2.36	-0.52	0.00	-3.52	0.00	3.52	975.84	487.92	954.81	478.11	7.68	-0.45	0.010
180.00	-2.24	-0.51	0.00	-2.47	0.00	2.47	975.84	487.92	954.81	478.11	7.87	-0.45	0.007
184.00	-0.65	-0.15	0.00	-0.45	0.00	0.45	975.84	487.92	954.81	478.11	8.25	-0.45	0.002
185.00	-0.59	-0.14	0.00	-0.30	0.00	0.30	975.84	487.92	954.81	478.11	8.34	-0.45	0.001
187.00	-0.04	-0.01	0.00	-0.01	0.00	0.01	975.84	487.92	954.81	478.11	8.53	-0.45	0.000
188.00	0.00	-0.01	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	8.62	-0.45	0.000

Wind Loading - Shaft

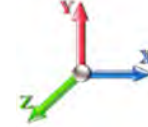
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 27

Dead Load Factor 1.00
Wind Load Factor 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	242.19	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
0.25	RB1	1.00	0.85	7.442	8.19	241.99	0.650	0.000	0.25	1.094	0.71	5.8	0.0	60.6
5.00		1.00	0.85	7.442	8.19	238.30	0.650	0.000	4.75	20.621	13.40	109.7	0.0	1141.6
10.00		1.00	0.85	7.442	8.19	234.42	0.650	0.000	5.00	21.364	13.89	113.7	0.0	1182.6
15.00		1.00	0.85	7.442	8.19	230.53	0.650	0.000	5.00	21.013	13.66	111.8	0.0	1163.0
20.00		1.00	0.90	7.896	8.69	233.46	0.650	0.000	5.00	20.662	13.43	116.7	0.0	1143.4
25.00		1.00	0.95	8.276	9.10	234.91	0.650	0.000	5.00	20.310	13.20	120.2	0.0	1123.8
30.00		1.00	0.98	8.600	9.46	235.29	0.650	0.000	5.00	19.959	12.97	122.7	0.0	1104.2
32.83	RT1	1.00	1.00	8.765	9.64	235.14	0.650	0.000	2.83	11.141	7.24	69.8	0.0	616.3
35.00		1.00	1.01	8.883	9.77	234.89	0.650	0.000	2.17	8.467	5.50	53.8	0.0	468.3
40.00		1.00	1.04	9.137	10.05	233.91	0.650	0.000	5.00	19.257	12.52	125.8	0.0	1064.9
43.25	Bot - Section 2	1.00	1.06	9.288	10.22	233.02	0.650	0.000	3.25	12.329	8.01	81.9	0.0	681.7
45.00		1.00	1.07	9.366	10.30	232.47	0.650	0.000	1.75	6.688	4.35	44.8	0.0	681.1
48.92	RB2	1.00	1.09	9.532	10.49	231.07	0.650	0.000	3.92	14.825	9.64	101.0	0.0	1509.4
49.00	Top - Section 1	1.00	1.09	9.536	10.49	231.04	0.650	0.000	0.08	0.300	0.20	2.0	0.0	30.6
50.00		1.00	1.09	9.576	10.53	234.64	0.650	0.000	1.00	3.746	2.44	25.7	0.0	177.8
55.00		1.00	1.12	9.770	10.75	232.55	0.650	0.000	5.00	18.520	12.04	129.4	0.0	878.8
60.00		1.00	1.14	9.951	10.95	230.20	0.650	0.000	5.00	18.169	11.81	129.3	0.0	862.0
65.00		1.00	1.16	10.120	11.13	227.61	0.650	0.000	5.00	17.818	11.58	128.9	0.0	845.2
70.00		1.00	1.17	10.279	11.31	224.83	0.650	0.000	5.00	17.467	11.35	128.4	0.0	828.4
75.00		1.00	1.19	10.430	11.47	221.87	0.650	0.000	5.00	17.115	11.13	127.6	0.0	811.6
76.83	RT2	1.00	1.20	10.483	11.53	220.74	0.650	0.000	1.83	6.176	4.01	46.3	0.0	292.8
80.00		1.00	1.21	10.572	11.63	218.75	0.650	0.000	3.17	10.588	6.88	80.0	0.0	501.9
85.00		1.00	1.22	10.708	11.78	215.49	0.650	0.000	5.00	16.413	10.67	125.7	0.0	778.0
87.50	Bot - Section 3	1.00	1.23	10.774	11.85	213.81	0.650	0.000	2.50	8.075	5.25	62.2	0.0	382.7
90.00		1.00	1.24	10.838	11.92	212.10	0.650	0.000	2.50	8.119	5.28	62.9	0.0	699.7
91.92	RB3	1.00	1.24	10.886	11.97	210.77	0.650	0.000	1.92	6.176	4.01	48.1	0.0	532.1
92.25	Top - Section 2	1.00	1.24	10.894	11.98	210.53	0.650	0.000	0.33	1.056	0.69	8.2	0.0	91.0
95.00		1.00	1.25	10.962	12.06	212.14	0.650	0.000	2.75	8.743	5.68	68.5	0.0	345.8
100.00		1.00	1.27	11.081	12.19	208.55	0.650	0.000	5.00	15.624	10.16	123.8	0.0	617.9
105.00		1.00	1.28	11.195	12.31	204.86	0.650	0.000	5.00	15.273	9.93	122.2	0.0	603.9
105.58	RT3	1.00	1.28	11.208	12.33	204.42	0.650	0.000	0.58	1.749	1.14	14.0	0.0	69.1
110.00		1.00	1.29	11.305	12.44	201.07	0.650	0.000	4.42	13.172	8.56	106.5	0.0	520.7
115.00		1.00	1.30	11.412	12.55	197.21	0.650	0.000	5.00	14.570	9.47	118.9	0.0	575.9
120.00		1.00	1.32	11.514	12.67	193.26	0.650	0.000	5.00	14.219	9.24	117.1	0.0	561.8
125.00		1.00	1.33	11.614	12.78	189.24	0.650	0.000	5.00	13.868	9.01	115.2	0.0	547.8
130.00		1.00	1.34	11.710	12.88	185.14	0.650	0.000	5.00	13.516	8.79	113.2	0.0	533.8
132.50	Bot - Section 4	1.00	1.34	11.757	12.93	183.07	0.650	0.000	2.50	6.627	4.31	55.7	0.0	261.7
135.00		1.00	1.35	11.803	12.98	180.99	0.650	0.000	2.50	6.631	4.31	56.0	0.0	442.1
136.50	Top - Section 3	1.00	1.35	11.831	13.01	179.73	0.650	0.000	1.50	3.937	2.56	33.3	0.0	262.4
140.00		1.00	1.36	11.894	13.08	179.36	0.650	0.000	3.50	9.063	5.89	77.1	0.0	251.3
145.00		1.00	1.37	11.982	13.18	175.09	0.650	0.000	5.00	12.648	8.22	108.4	0.0	350.6
148.00	Appurtenance(s)	1.00	1.37	12.034	13.24	172.51	0.650	0.000	3.00	7.420	4.82	63.8	0.0	205.7
150.00		1.00	1.38	12.068	13.27	170.77	0.650	0.000	2.00	4.877	3.17	42.1	0.0	135.1
155.00		1.00	1.39	12.152	13.37	166.39	0.650	0.000	5.00	11.946	7.76	103.8	0.0	331.0
158.00	Appurtenance(s)	1.00	1.39	12.201	13.42	163.75	0.650	0.000	3.00	6.999	4.55	61.1	0.0	193.9
160.00		1.00	1.40	12.233	13.46	161.97	0.650	0.000	2.00	4.596	2.99	40.2	0.0	127.3

Wind Loading - Shaft

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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165.00	1.00	1.41	12.313	13.54	157.50	0.650	0.000	5.00	11.243	7.31	99.0	0.0	311.4	
168.00 Appurtenance(s)	1.00	1.41	12.360	13.60	154.79	0.650	0.000	3.00	6.577	4.28	58.1	0.0	182.1	
168.50 Appurtenance(s)	1.00	1.41	12.367	13.60	154.34	0.650	0.000	0.50	1.084	0.70	9.6	0.0	30.0	
170.00	1.00	1.42	12.390	13.63	152.98	0.650	0.000	1.50	3.231	2.10	28.6	0.0	89.4	
175.00	1.00	1.42	12.466	13.71	148.42	0.650	0.000	5.00	10.541	6.85	94.0	0.0	291.8	
178.00 Top - Section 4	1.00	1.43	12.511	13.76	145.66	0.650	0.000	3.00	6.156	4.00	55.1	0.0	170.4	
180.00	1.00	1.43	12.540	13.79	145.83	0.650	0.000	2.00	4.062	2.64	36.4	0.0	96.4	
184.00 Appurtenance(s)	1.00	1.44	12.599	13.86	146.17	0.650	0.000	4.00	8.123	5.28	73.2	0.0	192.9	
185.00	1.00	1.44	12.613	13.87	146.25	0.650	0.000	1.00	2.031	1.32	18.3	0.0	48.2	
187.00 Appurtenance(s)	1.00	1.44	12.642	13.91	146.42	0.650	0.000	2.00	4.062	2.64	36.7	0.0	96.4	
188.00	1.00	1.45	12.656	13.92	146.50	0.650	0.000	1.00	2.031	1.32	18.4	0.0	48.2	
Totals:							188.00					4,350.4		28,148.4

Discrete Appurtenance Forces

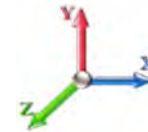
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 27

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	187.00	APXV18-209014	3	12.642	13.906	0.59	0.80	6.36	56.10	0.000	0.000	88.41	0.00	0.00
2	187.00	APX16PV-16-PVL-E	3	12.642	13.906	0.50	0.80	8.97	118.80	0.000	0.000	124.77	0.00	0.00
3	187.00	KRY 112 144-1	12	12.642	13.906	0.54	0.80	2.64	132.00	0.000	0.000	36.67	0.00	0.00
4	187.00	IBR 1300	1	12.642	13.906	0.80	0.80	0.54	8.90	0.000	0.000	7.45	0.00	0.00
5	187.00	LNx-6515DS-A1M	3	12.642	13.906	0.64	0.80	22.02	149.40	0.000	0.000	306.24	0.00	0.00
6	187.00	782 11054	3	12.642	13.906	0.54	0.80	0.35	5.40	0.000	0.000	4.92	0.00	0.00
7	184.00	Low Profile Platform	1	12.599	13.858	1.00	1.00	22.00	1500.00	0.000	0.000	304.88	0.00	0.00
8	168.50	Low Profile Platform	1	12.367	13.604	1.00	1.00	22.00	1500.00	0.000	0.000	299.29	0.00	0.00
9	168.00	APXV9ERR18-C-A20	1	12.360	13.596	0.66	0.80	5.33	62.00	0.000	0.000	72.40	0.00	0.00
10	168.00	ACU-A20-N	4	12.360	13.596	0.80	0.80	0.45	4.00	0.000	0.000	6.09	0.00	0.00
11	168.00	TD-RRH8x20-25	3	12.360	13.596	0.54	0.80	6.51	210.00	0.000	0.000	88.54	0.00	0.00
12	168.00	800 MHz RRH	3	12.360	13.596	0.54	0.80	4.73	162.00	0.000	0.000	64.27	0.00	0.00
13	168.00	1900 MHz RRH	3	12.360	13.596	0.54	0.80	4.73	132.00	0.000	0.000	64.27	0.00	0.00
14	168.00	800 MHz Filters	3	12.360	13.596	0.54	0.80	4.73	162.00	0.000	0.000	64.27	0.00	0.00
15	168.00	APXVSP18-C-A20	2	12.360	13.596	0.66	0.80	10.65	114.00	0.000	0.000	144.80	0.00	0.00
16	168.00	APXVTM14-C-120	3	12.360	13.596	0.63	0.80	12.02	168.00	0.000	0.000	163.43	0.00	0.00
17	158.00	LGP21401	6	12.201	13.421	0.54	0.80	4.05	105.00	0.000	0.000	54.38	0.00	0.00
18	158.00	T-Arm	3	12.201	13.421	0.50	0.75	12.06	900.00	0.000	0.000	161.86	0.00	0.00
19	158.00	P65-17-XLH-RR	2	12.201	13.421	0.60	0.80	13.73	118.00	0.000	0.000	184.24	0.00	0.00
20	158.00	SBNH-1D6565C	1	12.201	13.421	0.64	0.80	7.34	66.10	0.000	0.000	98.52	0.00	0.00
21	158.00	RRUS-11	6	12.201	13.421	0.54	0.80	8.10	304.20	0.000	0.000	108.77	0.00	0.00
22	158.00	DC-48-60-18-8F	1	12.201	13.421	0.80	0.80	1.18	31.80	0.000	0.000	15.78	0.00	0.00
23	158.00	7770	3	12.201	13.421	0.58	0.80	9.64	105.00	0.000	0.000	129.32	0.00	0.00
24	148.00	742 213	3	12.034	13.238	0.58	0.80	8.85	66.00	0.000	0.000	117.12	0.00	0.00
25	148.00	Flush Mount	1	12.034	13.238	1.00	1.00	5.00	150.00	0.000	0.000	66.19	0.00	0.00

Totals: 6,330.70

2,776.90

Total Applied Force Summary

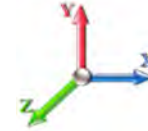
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 27

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
0.25		5.82	69.96	0.00	0.00
5.00		109.72	1319.96	0.00	0.00
10.00		113.68	1370.31	0.00	0.00
15.00		111.81	1350.70	0.00	0.00
20.00		116.65	1331.08	0.00	0.00
25.00		120.18	1311.47	0.00	0.00
30.00		122.73	1291.86	0.00	0.00
32.83		69.82	722.50	0.00	0.00
35.00		53.78	549.75	0.00	0.00
40.00		125.80	1252.64	0.00	0.00
43.25		81.88	803.70	0.00	0.00
45.00		44.79	746.77	0.00	0.00
48.92		101.04	1656.58	0.00	0.00
49.00		2.05	33.57	0.00	0.00
50.00		25.65	215.32	0.00	0.00
55.00		129.38	1066.52	0.00	0.00
60.00		129.27	1049.71	0.00	0.00
65.00		128.93	1032.90	0.00	0.00
70.00		128.37	1016.09	0.00	0.00
75.00		127.63	999.28	0.00	0.00
76.83		46.29	361.54	0.00	0.00
80.00		80.03	620.94	0.00	0.00
85.00		125.66	965.66	0.00	0.00
87.50		62.20	476.53	0.00	0.00
90.00		62.92	793.52	0.00	0.00
91.92		48.07	604.19	0.00	0.00
92.25		8.23	103.39	0.00	0.00
95.00		68.52	449.04	0.00	0.00
100.00		123.78	805.58	0.00	0.00
105.00		122.25	791.57	0.00	0.00
105.58		14.02	90.92	0.00	0.00
110.00		106.48	686.65	0.00	0.00
115.00		118.88	763.55	0.00	0.00
120.00		117.06	749.55	0.00	0.00
125.00		115.15	735.54	0.00	0.00
130.00		113.17	721.53	0.00	0.00
132.50		55.70	355.51	0.00	0.00
135.00		55.96	535.90	0.00	0.00
136.50		33.30	318.68	0.00	0.00
140.00		77.07	382.66	0.00	0.00
145.00		108.36	538.32	0.00	0.00
148.00	(4) attachments	247.15	534.28	0.00	0.00
150.00		42.08	197.75	0.00	0.00
155.00		103.79	487.50	0.00	0.00
158.00	(22) attachments	813.93	1917.89	0.00	0.00
160.00		40.20	169.66	0.00	0.00

Total Applied Force Summary

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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165.00		98.98	417.29	0.00	0.00
168.00	(22) attachments	726.20	1259.66	0.00	0.00
168.50	(1) attachments	308.87	1539.49	0.00	0.00
170.00		28.62	117.88	0.00	0.00
175.00		93.95	386.57	0.00	0.00
178.00		55.07	227.23	0.00	0.00
180.00		36.42	134.36	0.00	0.00
184.00	(1) attachments	378.06	1768.72	0.00	0.00
185.00		18.31	67.18	0.00	0.00
187.00	(25) attachments	605.18	604.96	0.00	0.00
188.00		18.38	48.22	0.00	0.00
	Totals:	7,127.28	40,920.10	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

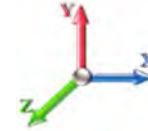
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
0.25	1 5/8" Coax	Yes	0.25	0.000	1.98	0.04	0.00	0.062	0.000	7.442	0.00	1.56
0.25	1.25" Reinforcing	Yes	0.25	0.000	1.25	0.03	0.00	0.062	0.000	7.442	0.00	0.00
5.00	1 5/8" Coax	Yes	4.75	0.000	1.98	0.78	0.00	0.062	0.000	7.442	0.00	29.64
5.00	1.25" Reinforcing	Yes	4.75	0.000	1.25	0.49	0.00	0.062	0.000	7.442	0.00	0.00
10.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.063	0.000	7.442	0.00	31.20
10.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.063	0.000	7.442	0.00	0.00
15.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.064	0.000	7.442	0.00	31.20
15.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.064	0.000	7.442	0.00	0.00
20.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.065	0.000	7.896	0.00	31.20
20.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.065	0.000	7.896	0.00	0.00
25.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.066	0.000	8.276	0.00	31.20
25.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.066	0.000	8.276	0.00	0.00
30.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.067	0.000	8.600	0.00	31.20
30.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.067	0.000	8.600	0.00	0.00
32.83	1 5/8" Coax	Yes	2.83	0.000	1.98	0.47	0.00	0.068	0.000	8.765	0.00	17.66
32.83	1.25" Reinforcing	Yes	2.83	0.000	1.25	0.29	0.00	0.068	0.000	8.765	0.00	0.00
35.00	1 5/8" Coax	Yes	2.17	0.000	1.98	0.36	0.00	0.069	0.000	8.883	0.00	13.54
35.00	1.25" Reinforcing	Yes	2.17	0.000	1.25	0.23	0.00	0.069	0.000	8.883	0.00	0.00
40.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.046	0.000	9.137	0.00	31.20
40.00	1.25" Reinforcing	Yes	0.50	0.000	1.25	0.05	0.00	0.046	0.000	9.137	0.00	0.00
43.25	1 5/8" Coax	Yes	3.25	0.000	1.98	0.54	0.00	0.043	0.000	9.288	0.00	20.28
45.00	1 5/8" Coax	Yes	1.75	0.000	1.98	0.29	0.00	0.044	0.000	9.366	0.00	10.92
48.92	1 5/8" Coax	Yes	3.92	0.000	1.98	0.65	0.00	0.062	0.000	9.532	0.00	24.46
48.92	1.25" Reinforcing	Yes	2.42	0.000	1.25	0.25	0.00	0.062	0.000	9.532	0.00	0.00
49.00	1 5/8" Coax	Yes	0.08	0.000	1.98	0.01	0.00	0.073	0.000	9.536	0.00	0.50
49.00	1.25" Reinforcing	Yes	0.08	0.000	1.25	0.01	0.00	0.073	0.000	9.536	0.00	0.00
50.00	1 5/8" Coax	Yes	1.00	0.000	1.98	0.17	0.00	0.072	0.000	9.576	0.00	6.24
50.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.072	0.000	9.576	0.00	0.00
55.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.073	0.000	9.770	0.00	31.20
55.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.073	0.000	9.770	0.00	0.00
60.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.074	0.000	9.951	0.00	31.20
60.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.074	0.000	9.951	0.00	0.00
65.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.076	0.000	10.120	0.00	31.20
65.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.076	0.000	10.120	0.00	0.00
70.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.077	0.000	10.279	0.00	31.20
70.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.077	0.000	10.279	0.00	0.00
75.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.079	0.000	10.430	0.00	31.20
75.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.079	0.000	10.430	0.00	0.00
76.83	1 5/8" Coax	Yes	1.83	0.000	1.98	0.30	0.00	0.080	0.000	10.483	0.00	11.42
76.83	1.25" Reinforcing	Yes	1.83	0.000	1.25	0.19	0.00	0.080	0.000	10.483	0.00	0.00
80.00	1 5/8" Coax	Yes	3.17	0.000	1.98	0.52	0.00	0.073	0.000	10.572	0.00	19.78
80.00	1.25" Reinforcing	Yes	2.42	0.000	1.25	0.25	0.00	0.073	0.000	10.572	0.00	0.00
85.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.050	0.000	10.708	0.00	31.20
87.50	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.051	0.000	10.774	0.00	15.60
90.00	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.052	0.000	10.838	0.00	15.60
91.92	1 5/8" Coax	Yes	1.92	0.000	1.98	0.32	0.00	0.081	0.000	10.886	0.00	11.98
91.92	1.25" Reinforcing	Yes	1.67	0.000	1.25	0.17	0.00	0.081	0.000	10.886	0.00	0.00

Linear Appurtenance Segment Forces (Factored)

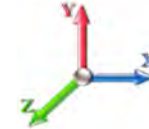
Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind

Dead Load Factor 1.00
Wind Load Factor 1.00



Iterations 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
92.25	1 5/8" Coax	Yes	0.33	0.000	1.98	0.05	0.00	0.086	0.000	10.894	0.00	2.06
92.25	1.25" Reinforcing	Yes	0.33	0.000	1.25	0.03	0.00	0.086	0.000	10.894	0.00	0.00
95.00	1 5/8" Coax	Yes	2.75	0.000	1.98	0.45	0.00	0.085	0.000	10.962	0.00	17.16
95.00	1.25" Reinforcing	Yes	2.75	0.000	1.25	0.29	0.00	0.085	0.000	10.962	0.00	0.00
100.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.086	0.000	11.081	0.00	31.20
100.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.086	0.000	11.081	0.00	0.00
105.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.088	0.000	11.195	0.00	31.20
105.00	1.25" Reinforcing	Yes	5.00	0.000	1.25	0.52	0.00	0.088	0.000	11.195	0.00	0.00
105.58	1 5/8" Coax	Yes	0.58	0.000	1.98	0.10	0.00	0.089	0.000	11.208	0.00	3.62
105.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.089	0.000	11.208	0.00	0.00
110.00	1 5/8" Coax	Yes	4.42	0.000	1.98	0.73	0.00	0.069	0.000	11.305	0.00	27.58
110.00	1.25" Reinforcing	Yes	1.67	0.000	1.25	0.17	0.00	0.069	0.000	11.305	0.00	0.00
115.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.057	0.000	11.412	0.00	31.20
120.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.058	0.000	11.514	0.00	31.20
125.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.059	0.000	11.614	0.00	31.20
130.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.061	0.000	11.710	0.00	31.20
132.50	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.062	0.000	11.757	0.00	15.60
135.00	1 5/8" Coax	Yes	2.50	0.000	1.98	0.41	0.00	0.063	0.000	11.803	0.00	15.60
136.50	1 5/8" Coax	Yes	1.50	0.000	1.98	0.25	0.00	0.064	0.000	11.831	0.00	9.36
140.00	1 5/8" Coax	Yes	3.50	0.000	1.98	0.58	0.00	0.064	0.000	11.894	0.00	21.84
145.00	1 5/8" Coax	Yes	5.00	0.000	1.98	0.82	0.00	0.065	0.000	11.982	0.00	31.20
148.00	1 5/8" Coax	Yes	3.00	0.000	1.98	0.49	0.00	0.067	0.000	12.034	0.00	18.72
Totals:											0.0	923.5

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

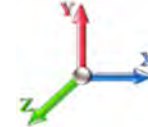


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Load Case: 1.0D + 1.0W 60 mph Wind

Iterations 27

Dead Load Factor 1.00
Wind Load Factor 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-40.92	-7.13	0.00	-908.40	0.00	908.40	5035.03	2517.52	10606.9	5311.37	0.00	0.000	0.000	0.179
0.25	-40.85	-7.14	0.00	-906.62	0.00	906.62	5032.22	2516.11	10592.3	5304.07	0.00	-0.003	0.000	0.134
5.00	-39.52	-7.05	0.00	-872.73	0.00	872.73	4978.38	2489.19	10316.4	5165.91	0.02	-0.041	0.000	0.132
10.00	-38.15	-6.96	0.00	-837.47	0.00	837.47	4920.91	2460.46	10028.2	5021.57	0.09	-0.081	0.000	0.130
15.00	-36.79	-6.88	0.00	-802.65	0.00	802.65	4862.63	2431.31	9742.31	4878.39	0.19	-0.121	0.000	0.127
20.00	-35.46	-6.78	0.00	-768.28	0.00	768.28	4803.53	2401.76	9458.77	4736.42	0.34	-0.162	0.000	0.125
25.00	-34.14	-6.68	0.00	-734.37	0.00	734.37	4743.61	2371.81	9177.73	4595.68	0.53	-0.202	0.000	0.122
30.00	-32.85	-6.57	0.00	-700.97	0.00	700.97	4682.88	2341.44	8899.25	4456.24	0.77	-0.243	0.000	0.120
32.83	-32.12	-6.51	0.00	-682.38	0.00	682.38	4648.14	2324.07	8742.80	4377.90	0.92	-0.266	0.000	0.118
32.83	-32.12	-6.51	0.00	-682.38	0.00	682.38	4648.14	2324.07	8742.80	4377.90	0.92	-0.266	0.000	0.118
35.00	-31.57	-6.47	0.00	-668.25	0.00	668.25	4621.33	2310.66	8623.42	4318.12	1.04	-0.284	0.000	0.162
40.00	-30.31	-6.37	0.00	-635.88	0.00	635.88	4558.96	2279.48	8350.33	4181.37	1.37	-0.340	0.000	0.159
43.25	-29.50	-6.29	0.00	-615.20	0.00	615.20	4517.98	2258.99	8174.32	4093.24	1.62	-0.377	0.000	0.157
45.00	-28.75	-6.26	0.00	-604.18	0.00	604.18	4495.78	2247.89	8080.06	4046.03	1.76	-0.397	0.000	0.156
48.92	-27.10	-6.16	0.00	-579.65	0.00	579.65	4445.67	2222.84	7870.19	3940.94	2.10	-0.442	0.000	0.111
49.00	-27.06	-6.16	0.00	-579.15	0.00	579.15	3699.57	1849.78	6681.20	3345.56	2.11	-0.443	0.000	0.118
50.00	-26.84	-6.14	0.00	-573.00	0.00	573.00	3689.91	1844.95	6638.39	3324.13	2.20	-0.451	0.000	0.126
55.00	-25.77	-6.02	0.00	-542.29	0.00	542.29	3641.14	1820.57	6425.47	3217.51	2.70	-0.495	0.000	0.123
60.00	-24.72	-5.90	0.00	-512.17	0.00	512.17	3591.55	1795.77	6214.50	3111.87	3.24	-0.539	0.000	0.119
65.00	-23.68	-5.78	0.00	-482.65	0.00	482.65	3541.14	1770.57	6005.55	3007.24	3.83	-0.583	0.000	0.115
70.00	-22.67	-5.66	0.00	-453.74	0.00	453.74	3489.91	1744.96	5798.71	2903.67	4.46	-0.626	0.000	0.112
75.00	-21.67	-5.53	0.00	-425.44	0.00	425.44	3437.87	1718.94	5594.07	2801.19	5.14	-0.669	0.000	0.108
76.83	-21.30	-5.49	0.00	-415.31	0.00	415.31	3418.62	1709.31	5519.73	2763.97	5.40	-0.685	0.000	0.106
76.83	-21.30	-5.49	0.00	-415.31	0.00	415.31	3418.62	1709.31	5519.73	2763.97	5.40	-0.685	0.000	0.106
80.00	-20.68	-5.42	0.00	-397.91	0.00	397.91	3385.02	1692.51	5391.70	2699.86	5.87	-0.712	0.000	0.154
85.00	-19.71	-5.30	0.00	-370.81	0.00	370.81	3331.35	1665.67	5191.69	2599.71	6.64	-0.774	0.000	0.149
87.50	-19.23	-5.24	0.00	-357.57	0.00	357.57	3304.20	1652.10	5092.60	2550.09	7.06	-0.805	0.000	0.146
90.00	-18.44	-5.17	0.00	-344.48	0.00	344.48	3276.86	1638.43	4994.13	2500.78	7.49	-0.837	0.000	0.143
91.92	-17.83	-5.12	0.00	-334.54	0.00	334.54	3255.72	1627.86	4918.94	2463.13	7.83	-0.861	0.000	0.099
92.25	-17.73	-5.11	0.00	-332.85	0.00	332.85	2609.22	1304.61	4017.17	2011.57	7.89	-0.864	0.000	0.106
95.00	-17.28	-5.05	0.00	-318.79	0.00	318.79	2587.46	1293.73	3934.74	1970.29	8.39	-0.887	0.000	0.113
100.00	-16.47	-4.93	0.00	-293.54	0.00	293.54	2547.26	1273.63	3786.04	1895.83	9.35	-0.933	0.000	0.107
105.00	-15.68	-4.80	0.00	-268.91	0.00	268.91	2506.24	1253.12	3638.92	1822.16	10.35	-0.978	0.000	0.101
105.58	-15.59	-4.79	0.00	-266.13	0.00	266.13	2501.42	1250.71	3621.96	1813.67	10.47	-0.983	0.000	0.101
105.58	-15.59	-4.79	0.00	-266.13	0.00	266.13	2501.42	1250.71	3621.96	1813.67	10.47	-0.983	0.000	0.101
110.00	-14.90	-4.68	0.00	-244.96	0.00	244.96	2464.40	1232.20	3493.46	1749.33	11.40	-1.021	0.000	0.146
115.00	-14.13	-4.57	0.00	-221.55	0.00	221.55	2421.75	1210.87	3349.75	1677.36	12.50	-1.086	0.000	0.138
120.00	-13.38	-4.45	0.00	-198.72	0.00	198.72	2378.28	1189.14	3207.87	1606.32	13.67	-1.148	0.000	0.129
125.00	-12.64	-4.33	0.00	-176.48	0.00	176.48	2333.99	1167.00	3067.90	1536.23	14.91	-1.208	0.000	0.120
130.00	-11.92	-4.21	0.00	-154.82	0.00	154.82	2288.89	1144.45	2929.94	1467.15	16.20	-1.265	0.000	0.111
132.50	-11.56	-4.15	0.00	-144.30	0.00	144.30	2266.03	1133.02	2861.73	1432.99	16.87	-1.293	0.000	0.106
135.00	-11.03	-4.09	0.00	-133.91	0.00	133.91	2239.33	1119.66	2789.52	1396.83	17.55	-1.320	0.000	0.101
136.50	-10.71	-4.05	0.00	-127.78	0.00	127.78	1414.34	707.17	1783.76	893.21	17.97	-1.336	0.000	0.151
140.00	-10.32	-3.98	0.00	-113.59	0.00	113.59	1397.90	698.95	1729.39	865.98	18.96	-1.371	0.000	0.139
145.00	-9.78	-3.86	0.00	-93.71	0.00	93.71	1373.73	686.86	1652.26	827.36	20.43	-1.432	0.000	0.120
148.00	-9.25	-3.61	0.00	-82.12	0.00	82.12	1358.83	679.41	1606.31	804.35	21.35	-1.466	0.000	0.109
150.00	-9.06	-3.57	0.00	-74.91	0.00	74.91	1348.73	674.37	1575.83	789.09	21.96	-1.488	0.000	0.102
155.00	-8.57	-3.45	0.00	-57.09	0.00	57.09	1322.92	661.46	1500.20	751.22	23.55	-1.534	0.000	0.082

Calculated Forces

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (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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158.00	-6.67	-2.59	0.00	-46.73	0.00	46.73	1307.05	653.52	1455.24	728.70	24.52	-1.558	0.000	0.069
160.00	-6.50	-2.55	0.00	-41.54	0.00	41.54	1296.30	648.15	1425.45	713.78	25.18	-1.573	0.000	0.063
165.00	-6.09	-2.44	0.00	-28.80	0.00	28.80	1268.86	634.43	1351.65	676.83	26.84	-1.603	0.000	0.047
168.00	-4.85	-1.68	0.00	-21.48	0.00	21.48	1252.00	626.00	1307.87	654.91	27.85	-1.617	0.000	0.037
168.50	-3.32	-1.33	0.00	-20.64	0.00	20.64	1249.16	624.58	1300.61	651.27	28.02	-1.619	0.000	0.034
170.00	-3.20	-1.30	0.00	-18.65	0.00	18.65	1240.60	620.30	1278.90	640.40	28.53	-1.625	0.000	0.032
175.00	-2.82	-1.19	0.00	-12.17	0.00	12.17	1211.52	605.76	1207.28	604.54	30.24	-1.640	0.000	0.022
178.00	-2.59	-1.13	0.00	-8.59	0.00	8.59	1193.69	596.84	1164.89	583.31	31.27	-1.647	0.000	0.017
178.00	-2.59	-1.13	0.00	-8.59	0.00	8.59	975.84	487.92	954.81	478.11	31.27	-1.647	0.000	0.021
180.00	-2.46	-1.09	0.00	-6.33	0.00	6.33	975.84	487.92	954.81	478.11	31.97	-1.651	0.000	0.016
184.00	-0.70	-0.66	0.00	-1.97	0.00	1.97	975.84	487.92	954.81	478.11	33.35	-1.656	0.000	0.005
185.00	-0.63	-0.64	0.00	-1.30	0.00	1.30	975.84	487.92	954.81	478.11	33.70	-1.656	0.000	0.003
187.00	-0.05	-0.02	0.00	-0.02	0.00	0.02	975.84	487.92	954.81	478.11	34.39	-1.656	0.000	0.000
188.00	0.00	-0.02	0.00	0.00	0.00	0.00	975.84	487.92	954.81	478.11	34.74	-1.656	0.000	0.000

Final Analysis Summary

Structure: CT46124-A-SBA	Code: EIA/TIA-222-G	10/26/2017
Site Name: Enfield-Moody Rd.	Exposure: C	
Height: 188.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 94 mph Wind	28.0	0.00	49.10	0.00	0.00	3593.74
0.9D + 1.6W 94 mph Wind	28.0	0.00	36.82	0.00	0.00	3547.49
1.2D + 1.0Di + 1.0Wi 50 mph Wind	9.4	0.00	84.41	0.00	0.00	1241.92
1.2D + 1.0E	1.6	0.00	49.10	0.00	0.00	205.63
0.9D + 1.0E	1.6	0.00	36.83	0.00	0.00	202.80
1.0D + 1.0W 60 mph Wind	7.1	0.00	40.92	0.00	0.00	908.40

Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 94 mph Wind	-49.10	-27.99	0.00	-3593.7	0.00	-3593.7	5035.03	2517.5	10606.9	5311.37	0.00	0.686
0.9D + 1.6W 94 mph Wind	-36.82	-27.99	0.00	-3547.4	0.00	-3547.4	5035.03	2517.5	10606.9	5311.37	0.00	0.675
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-84.41	-9.39	0.00	-1241.9	0.00	-1241.9	5035.03	2517.5	10606.9	5311.37	0.00	0.251
1.2D + 1.0E	-12.95	-1.02	0.00	-40.54	0.00	-40.54	1414.34	707.17	1783.76	893.21	136.50	0.055
0.9D + 1.0E	-9.71	-1.00	0.00	-39.84	0.00	-39.84	1414.34	707.17	1783.76	893.21	136.50	0.051
1.0D + 1.0W 60 mph Wind	-40.92	-7.13	0.00	-908.40	0.00	-908.40	5035.03	2517.5	10606.9	5311.37	0.00	0.179

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
0.3	32.8	(3) PLT-6"x1-1/4"(1.25" Hole	-196.6	-4.13	37.1	270.9	37.1	8	0	248.2	37.1	7	11	270.86	404.8	356.25	0.760
48.9	76.8	(3) PLT-5.5"x1 1/4"(1.25"hol	-226.6	-4.76	37.1	221.5	37.1	6	10	205.9	37.1	6	10	236.56	371.1	318.75	0.742
91.9	105.6	(3) PLT-4.5"x 1-1/4"(1.25"ho	-234.9	-5.64	37.1	162.6	37.1	5	7	156.6	37.1	5	7	172.99	296.2	243.75	0.710

Exhibit E



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

T-Mobile Existing Facility

Site ID: CTHA170C

Moody Rd (MW add)
188 Moody Road
Enfield, CT 06082

September 27, 2017

EBI Project Number: 6217004235

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	8.455%



September 27, 2017

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Emissions Analysis for Site: **CTHA170C – Moody Rd**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **188 Moody Road, Enfield, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

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

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

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

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the 700 MHz Band is approximately 467 $\mu\text{W}/\text{cm}^2$, and the general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 5 GHz microwave bands is 1000 $\mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



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

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at **188 Moody Road, Enfield, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel and microwave antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

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

- 1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 3) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.
- 4) 1 microwave backhaul channel (5 GHz) was considered for the microwave Link. This channel has a transmit power of 1 Watt
- 5) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.



- 6) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 7) The antennas used in this modeling are the **RFS APXV18-209014-C** for 1900 MHz (PCS) channels, the **Commscope LNX-6515DS-A1M** for 700 MHz channels and the **Fastback Networks IBR 1300** for 5 GHz microwave backhaul. This is based on feedback from the carrier with regards to anticipated antenna selection. The **RFS APXV18-209014-C** has a maximum gain of **14.4 dBd** at its main lobe at 1900 MHz. The **Commscope LNX-6515DS-A1M** has a maximum gain of **14.6 dBd** at its main lobe at 700 MHz. the **Fastback Networks IBR 1300 antenna** has a maximum gain of **10 dBd** at 5 GHz. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antenna mounting height centerline of the proposed antennas is **187 feet** above ground level (AGL) for all standard panel antennas and 5 GHz microwave radio / antenna.
- 9) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.
- 10) All calculations were done with respect to uncontrolled / general population threshold limits.



T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	RFS APXV18-209014-C	Make / Model:	RFS APXV18-209014-C	Make / Model:	RFS APXV18-209014-C
Gain:	14.4 dBd	Gain:	14.4 dBd	Gain:	14.4 dBd
Height (AGL):	187	Height (AGL):	187	Height (AGL):	187
Frequency Bands	1900 MHz (PCS)	Frequency Bands	1900 MHz (PCS)	Frequency Bands	1900 MHz (PCS)
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power(W):	180	Total TX Power(W):	180	Total TX Power(W):	180
ERP (W):	3,164.26	ERP (W):	3,164.26	ERP (W):	3,164.26
Antenna A1 MPE%	0.347	Antenna B1 MPE%	0.347	Antenna C1 MPE%	0.347
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Commscope LNX-6515DS-A1M	Make / Model:	Commscope LNX-6515DS-A1M	Make / Model:	Commscope LNX-6515DS-A1M
Gain:	14.6 dBd	Gain:	14.6 dBd	Gain:	14.6 dBd
Height (AGL):	187	Height (AGL):	187	Height (AGL):	187
Frequency Bands	700 MHz	Frequency Bands	700 MHz	Frequency Bands	700 MHz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power(W):	30	Total TX Power(W):	30	Total TX Power(W):	30
ERP (W):	668.53	ERP (W):	668.53	ERP (W):	668.53
Antenna A2 MPE%	0.157	Antenna B2 MPE%	0.157	Antenna C2 MPE%	0.157
				Antenna #:	3 (Microwave)
				Make / Model:	Fastback Networks IBR 1300
				Gain:	10.0 dBd
				Height (AGL):	187
				Frequency Bands	5.0 GHz
				Channel Count	1
				Total TX Power(W):	1
				ERP (W):	10 W
				Antenna A4 MPE%	0.001

Site Composite MPE%	
Carrier	MPE%
T-Mobile (Per Sector Max) – Sector C	0.505%
AT&T	3.230%
MetroPCS	3.950%
Nextel	0.390%
Sprint	0.320%
Clearwire	0.060%
Site Total MPE %:	8.455%

T-Mobile Sector A Total:	0.505%
T-Mobile Sector B Total:	0.504%
T-Mobile Sector C Total:	0.504%
Site Total:	8.455%



T-Mobile Per Sector Maximum Power Values

T-Mobile _Max Values per sector (Sector C)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile PCS - 1900 MHz LTE	2	1,054.75	187	2.31	PCS - 1900 MHz	1000	0.231%
T-Mobile PCS - 1900 MHz GSM	2	527.38	187	1.16	PCS - 1900 MHz	1000	0.116%
T-Mobile 700 MHz LTE	1	668.53	187	0.73	700 MHz	467	0.157%
T-Mobile 5 GHz Microwave	1	10	187	0.25	5 GHz Microwave	1000	0.001%
						Total:	0.505%



Summary

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

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

T-Mobile Sector	Power Density Value (%)
Sector A:	0.504%
Sector B:	0.504%
Sector C:	0.505%
T-Mobile Per Sector Maximum:	0.505%
Site Total:	8.455%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **8.455%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

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

Exhibit F

=====
 FISKDALE
 458 MAIN ST
 FISKDALE
 MA
 01518-9998
 2427030518
 11/13/2017 (800)275-8777 11:48 AM
 =====

Product Description	Sale Qty	Final Price
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PM 2-Day Flat Rate Env	1	\$6.65
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(Domestic)
 (ENFIELD, CT 06082)
 (Flat Rate)
 (Expected Delivery Date)
 (Wednesday 11/15/2017)
 (USPS Tracking #)
 (9505 5112 4091 7317 0977 32)

Insurance	1	\$0.00
(Up to \$50.00 included)		

PM 2-Day Flat Rate Env	1	\$6.65
------------------------	---	--------

(Domestic)
 (BOCA RATON, FL 33487)
 (Flat Rate)
 (Expected Delivery Date)
 (Wednesday 11/15/2017)
 (USPS Tracking #)
 (9505 5112 4091 7317 0977 49)

Insurance	1	\$0.00
(Up to \$50.00 included)		

PM 2-Day Flat Rate Env	1	\$6.65
------------------------	---	--------

(Domestic)
 (ENFIELD, CT 06082)
 (Flat Rate)
 (Expected Delivery Date)
 (Wednesday 11/15/2017)
 (USPS Tracking #)
 (9505 5112 4091 7317 0977 56)

Insurance	1	\$0.00
(Up to \$50.00 included)		

PM 2-Day Flat Rate Env	1	\$6.65
------------------------	---	--------

(Domestic)
 (ENFIELD, CT 06082)
 (Flat Rate)
 (Expected Delivery Date)
 (Wednesday 11/15/2017)
 (USPS Tracking #)
 (9505 5112 4091 7317 0977 63)

Insurance	1	\$0.00
(Up to \$50.00 included)		

Total		\$26.60
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Credit Card Remitd		\$26.60
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(Card Name:VISA)
 (Account #:XXXXXXXXXX7500)
 (Approval #:05396G)
 (Transaction #:286)

Includes up to \$50 insurance