

December 4, 2025

Via Federal Express

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

Re: **Docket No. 533 – Application of Tarpon Towers III, LLC and Cellco Partnership
d/b/a Verizon Wireless for a Certificate of Environmental Compatibility and Public
Need for the Construction, Maintenance and Operation of a Wireless
Telecommunications Facility at 161 Conrad Street, Naugatuck, Connecticut**

Development and Management Plan Submission

Dear Attorney Bachman:

Enclosed please find fifteen (15) copies of the following:

1. Development and Management (“D&M”) Plans prepared by All Points Technologies Corporation for the approved telecommunications facility at 161 Conrad Street in Naugatuck, Connecticut incorporating the Council’s conditions of approval. Also enclosed are two (2) full size (24” x 36”) sets of D&M plans. In accordance with Condition 2(d), the tower has been relocated to south and east away from the properties at 171 Conrad Street and 134 Craig Circle.
2. Tower and Foundation Design from TAPP dated October 28, 2025. In accordance with Condition 2(e) of the Council’s Decision and Order, the tower design incorporates a yield point that ensures the tower setback radius remains within the boundaries of the host parcel.
3. Geotechnical Study prepared by Welti Geotechnical, P.C. dated October 16, 2025.
4. Letter from Verizon Wireless confirming its commitment to share the approved tower.

33413252-v1

Melanie A. Bachman, Esq.

December 4, 2025

Page 2

We respectfully request that this information be reviewed, and this matter be placed on the next available Siting Council agenda for approval. Please feel free to contact me if you have any questions or require additional information. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

N. Warren "Pete" Buss, Mayor Borough of Naugatuck
Parties and Intervenors of Record



CT1239 CONRAD ST 161 CONRAD STREET NAUGATUCK, CT 06770

DRAWING INDEX

- T-1 TITLE SHEET
- VB101 PROPERTY & TOPOGRAPHIC SURVEY
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- SP-2 SITE PLAN
- CP-1 COMPOUND PLAN & ELEVATION
- C-1 CELLCO PARTNERSHIP EQUIPMENT PLAN & DETAILS
- C-2 CELLCO PARTNERSHIP ANTENNA PLAN & DETAILS
- C-3 T-MOBILE EQUIPMENT PLAN & DETAILS
- C-4 T-MOBILE ANTENNA PLAN & DETAILS
- C-5 AT&T EQUIPMENT PLAN & DETAILS
- C-6 AT&T ANTENNA PLAN & DETAILS
- C-7 BOROUGH OF NAUGATUCK EQUIPMENT PLAN & DETAILS
- C-8 SITE DETAILS
- EC-1 EROSION CONTROL, PLANTING & ENVIRONMENTAL NOTES & DETAILS
- N-1 NOTES & SPECIFICATIONS

SITE DIRECTIONS

START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492

END: 161 CONRAD STREET
NAUGATUCK, CT 06770

1. HEAD NORTH ON ALEXANDER DRIVE

0.3 MI
2. TURN RIGHT ONTO BARNES INDUSTRIAL ROAD S

0.1 MI
3. TURN LEFT ONTO BARNES RD. (CT-68 W)

4.4 MI
4. TURN LEFT ONTO CT-68 W/ CT-70 W

1.2 MI
5. TURN LEFT ONTO CT-68 W/ CT-70W / MAIN ST.

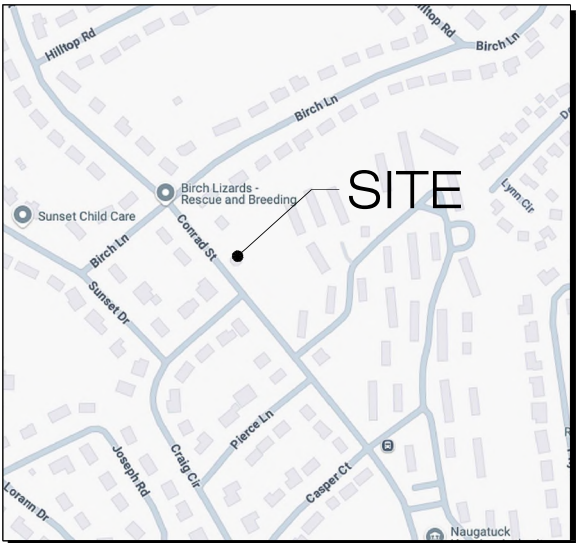
1.7 MI
6. TURN LEFT ONTO CT-68 W

7.7 MI
7. TURN RIGHT ONTO CHURCH ST.

0.5 MI
8. TURN LEFT ONTO FIELD ST.

0.9 MI
9. TURN LEFT ONTO CONRAD ST., DESTINATION WILL ON THE LEFT

0.3 MI



LOCATION MAP
SCALE : 1" = 200'

VZ SITE NAME: NAUGATUCK 5
VZ MDG LOCATON CODE: 616755202
VZ PSLC: 470709
VZ FUZE ID: 17453771
T-MOBLE SITE NAME: TARPON TOWERS MONOPOLE NAUGATUCK
T-MOBILE SITE ID: CTNH488A
AT&T SITE NAME: S3458G
AT&T SITE ID: SICT002531
LOCATION: 161 CONRAD STREET
NAUGATUCK, CT 06770

PROJECT SCOPE: RAWLAND SITE W/ GROUND EQUIPMENT WITHIN A 6,737± S.F.
TELECOMMUNICATIONS EQUIPMENT COMPOUND W/ NEW 150'± AGL
MONOPOLE.

ASSESSORS TAX I.D: 014-9020

LATITUDE: 41° 29' 53.03" N (41.49806)

LONGITUDE: 73° 04' 12.18" W (73.07005)

GROUND ELEVATION: 514.9± AMSL

PROPERTY OWNER: BOROUGH OF NAUGATUCK
229 CHURCH STREET
NAUGATUCK, CT 06770

APPLICANT: TARPON TOWERS III, LLC
8916 77th TERRACE EAST
SUITE 103
LAKEWOOD RANCH, FL 34202

CO APPLICANTS: CELLCO PARTNERSHIP
d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

T-MOBILE NORTHEAST, LLC
15COMMERCE WAY
SUITE B
NORTON, MA 02766

AT&T
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

LEGAL/REGULATORY COUNSEL: ROBINSON & COLE, LLP
KENNETH C. BALDWIN, ESQ.
ONE STATE STREET
HARTFORD, CT 06103

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
567 VAUXHALL STREET EXT., - SUITE 311
WATERFORD, CT 06385
(860) 663-1697

COORDINATES & GROUND
ELEVATION INDICATED HEREIN
WERE ESTABLISHED FROM A
FAA 1-A SURVEY CERTIFICATION,
AS PREPARED BY LANGAN CT,
INC., DATED AUGUST 18, 2025.



8916 77th TERRACE EAST, SUITE 103
LAKEWOOD RANCH, FL 34202



567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

Cellco Partnership d/b/a



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



15 COMMERCE WAY
SUITE B
NORTON, MA 02766



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

D&M DOCUMENTS

NO	DATE	REVISION
0	09/12/25	FOR REVIEW: RCB
1	10/06/25	CARRIER REVISIONS: RCB
2	10/29/25	ADD TOWER INFO: RCB
3	11/20/25	FINAL: RCB
4	12/02/25	AT&T EQUIP REVISIONS: RCB
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS, P.E.
COMP: ALL-POINTS TECHNOLOGY
CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT.
SUITE 311
WATERFORD, CT 06385

OWNER: BOROUGH OF NAUGATUCK
ADDRESS: 229 CHURCH STREET
NAUGATUCK, CT 06770

CT1239 CONRAD ST

SITE 161 CONRAD STREET
ADDRESS: NAUGATUCK, CT 06770

APT FILING NUMBER: CT752130

DRAWN BY: ELZ

DATE: 09/12/25 CHECKED BY: RCB

VZW MDG LOC. CODE: 616755202

VZW PSLC: 470709

VZW FUZE ID: 17453771

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1



NOTES

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996. a. THIS SURVEY IS A PROPERTY SURVEY CONFORMING TO A HORIZONTAL ACCURACY OF A-2 AND A TOPOGRAPHIC SURVEY CONFORMING TO A T-2 ACCURACY. THE BOUNDARY DETERMINATION IS A RESURVEY. THE PURPOSE OF THIS SURVEY IS TO PROVIDE A BOUNDARY OPINION AND DEPICT SITE FEATURES FOR FUTURE SITE DEVELOPMENT.

2. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, DEED INFORMATION AND THE FOLLOWING REFERENCES:

A. MAP TITLED "MAP OF HILLTOP, SUBDIVISION OF LAND OF GARDNER F. WOOD, BIRCH LANE, NAUGATUCK, CONN. SECTION "B", SCALE: 1"=40', DATED: AUGUST 1951, BY: FRANK A. DESMOND, L.S., MAP BOOK 7 PAGE 11

B. MAP TITLED "BOUNDARY SURVEY, PROPERTY OF THE CONNECTICUT WATER COMPANY, CONRAD STREET, NAUGATUCK, CONNECTICUT", SCALE: 1"=20', DATED: JUNE, 1986, BY: WILLIAM A. BERGLUND, R.L.S., MAP BOOK 35 PAGE 12

C. MAP TITLED "EXISTING CONDITIONS SURVEY PREPARED FOR NAUGATUCK HOUSING AUTHORITY, 53 CONRAD STREET, NAUGATUCK, CONNECTICUT", SCALE: 1"=60', DATED: JANUARY 2, 2014, LAST REVISED: MARY 10, 2017, BY: HARRY E. COLE & SON, MAP BOOK 42 PAGE 59

3. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO CONNECTICUT STATE PLANE COORDINATE SYSTEM NAD 83 (EPOCH 2011). POSITION WAS DETERMINED BY GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) AS PROVIDED BY HXGN SMARTNET CONTINUOUSLY OPERATED REFERENCE STATIONS (CORS).

4. ELEVATIONS SHOWN ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) (GEOD 18) AS DETERMINED BY GNSS

5. PLANIMETRIC AND TOPOGRAPHIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN CT, INC. FIELD WORK COMPLETED DURING THE MONTH OF SEPTEMBER 2024 & JUNE 2025.

6. AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM MAP ENTITLED "NEW HAVEN COUNTY, CONNECTICUT PANEL 252 OF 635, MAP NUMBER 09009C0252H, EFFECTIVE DATE DECEMBER 17, 2010" THE PROJECT AREA IS IN ZONE X (UNSHADED).

7. UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE, THE SURVEYOR CANNOT, AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES.

8. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC.) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.

9. UNLESS SPECIFICALLY NOTED HEREON, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.

10. ALL BUILDINGS AND STRUCTURES WERE LOCATED AND MEASURED AT GROUND LEVEL. THE SURVEYOR MAKES NO DETERMINATIONS OR GUARANTEES AS TO THE ABSENCE, EXISTENCE OR LOCATION OF UNDERGROUND STRUCTURES, FOUNDATIONS, FOOTINGS, PROJECTIONS, WALLS, TANKS, SEPTIC SYSTEMS, ETC. NO TEST PITS, EXCAVATIONS OR GROUND PENETRATING RADAR WERE PERFORMED AS PART OF THIS SURVEY.

11. PRIOR TO ANY DESIGN OR CONSTRUCTION, THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

12. THIS SURVEY IS NOT VALID WITHOUT THE EMBOSSED OR INKED SEAL OF THE PROFESSIONAL.

LEGEND

- (NOT SHOWN TO SCALE)
- POSTS
 - TREE
 - ELECTRIC BOX
 - ELECTRIC METER
 - COMMUNICATION BOX
 - GUY WIRE
 - POWER POLE
 - ROOF DRAIN
 - WATER VALVE
 - SPOT ELEVATION
 - BITUMINOUS
 - EDGE OF PAVEMENT
 - DOUBLE YELLOW STRIPE
 - CHAINLINK FENCE
 - TREE LINE
 - OVERHEAD WIRE
 - PROPERTY LINE
 - CONTOUR LINE
 - DRAINAGE MARK OUT LINE
 - ELECTRIC MARK OUT LINE
 - COMMUNICATION MARK OUT LINE
 - WATER MARK OUT LINE
 - UNKNOWN MARK OUT LINE

TITLE REPORT

COMMITMENT FOR TITLE INSURANCE ISSUED BY WESTCOR LAND TITLE INSURANCE COMPANY. COMMITMENT NUMBER: TAR-186016-C. COMMITMENT DATE: AUGUST 6, 2024. SCHEDULE B SECTION II:

1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I. NOTHING TO PLOT.

2. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. NO DOCUMENTS STATING SAID RIGHTS OR CLAIMS WERE PROVIDED TO THE SURVEYOR, RIGHTS MAY EXIST, NOTHING TO PLOT.

3. EASEMENTS OR CLAIMS OF EASEMENTS NOT SHOWN BY THE PUBLIC RECORDS. NO EVIDENCE OF UNRECORDED EASEMENTS OR CLAIMS WERE OBSERVED AT THE TIME OF SURVEY, NOTHING TO PLOT.

4. DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, ENCROACHMENTS, OVERLAPS, VARIATIONS OR SHORTAGE IN AREA OR CONTENT, PARTY WALLS AND ANY OTHER MATTERS THAT WOULD BE DISCLOSED BY A CORRECT SURVEY AND/OR PHYSICAL INSPECTION OF THE LAND. NO EVIDENCE OF DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, ENCROACHMENTS, OVERLAPS, VARIATIONS OR SHORTAGE IN AREA OR CONTENT OR PARTY WALLS WERE OBSERVED ON THE SUBJECT PARCEL AT THE TIME OF SURVEY.

5. ANY LIEN, OR RIGHT TO LIEN, FOR SERVICES, LABOR OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORD. NO DOCUMENTATION PROVIDED, NOTHING TO PLOT.

6. ANY WATER OR WELL RIGHTS, OR RIGHTS OR TITLE TO WATER OR CLAIMS THEREOF, IN, ON OR UNDER THE LAND. NO DOCUMENTS STATING SAID RIGHTS WERE PROVIDED TO THE SURVEYOR.

7. UNPATENTED MINING CLAIMS; RESERVATIONS OR EXCEPTIONS IN PATENTS OR IN THE ACTS AUTHORIZING THE ISSUANCE OF SAID PATENTS. NO RESERVATION OR EXCEPTIONS DOCUMENTS WERE PROVIDED TO THE SURVEYOR, NOTHING TO PLOT.

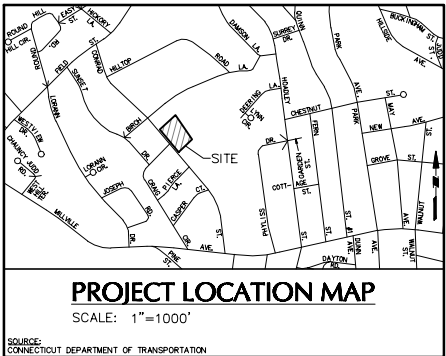
8. ALL TAXES, ASSESSMENTS, LEVIES AND CHARGES WHICH CONSTITUTE LIENS OR ARE DUE OR PAYABLE INCLUDING UNREDEEMED TAX SALES. NOTHING TO PLOT.

9. RIGHTS OF FEE SIMPLE OWNERS IN AND TO THE SUBJECT PROPERTY. SUBJECT PARCEL BOUNDARY DEPICTED ON SURVEY.

10. RESOLUTION DATED JULY 23, 1993 AND RECORDED JULY 23, 1993 IN VOL 378 PAGE 747, IN NEW HAVEN COUNTY, CONNECTICUT. BLANKET IN NATURE, CONRAD STREET IS A PUBLIC RIGHT OF WAY AND IS DEPICTED ON SURVEY.

11. TERMS AND CONDITIONS OF AN UNRECORDED AGREEMENT, AS EVIDENCED BY A(N) AGREEMENT BETWEEN THE CONNECTICUT WATER COMPANY, A CONNECTICUT CORPORATION AND THE TOWN AND BOROUGH OF NAUGATUCK, DATED JANUARY 25, 1993 AND RECORDED JULY 23, 1993 IN VOL 378 PAGE 750, IN NEW HAVEN COUNTY, CONNECTICUT. BLANKET IN NATURE.

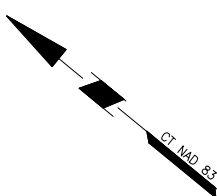
12. CORPORATE RESOLUTION DATED JULY 9, 1993 AND RECORDED JULY 23, 1993 IN VOL 378 PAGE 770, IN NEW HAVEN COUNTY, CONNECTICUT. BLANKET IN NATURE.



PROJECT LOCATION MAP

SCALE: 1"=1000'

SOURCE: CONNECTICUT DEPARTMENT OF TRANSPORTATION



PROPOSED EASEMENT LEGEND

- PROPOSED LEASE AREA
- PROPOSED ACCESS EASEMENT
- PROPOSED UTILITY EASEMENT



6/5/2025	ADDITIONAL TOPO AREA	3
2/21/2025	ADDED PROPOSED UTILITY EASEMENT	2
2/13/2025	ADDED PROPOSED LEASE AREA & ACCESS EASEMENT	1
Date	Description	No.

REVISIONS

"TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON."

ANDREW G. IVES DATE SIGNED
PROFESSIONAL LAND SURVEYOR
CT STATE LIC. NO. 70286

LANGAN

Langan CT, Inc.
555 Long Wharf Drive, 9th Floor
New Haven, CT 06511

T: 203.562.5771 F: 203.789.6142 www.langan.com

Project

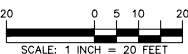
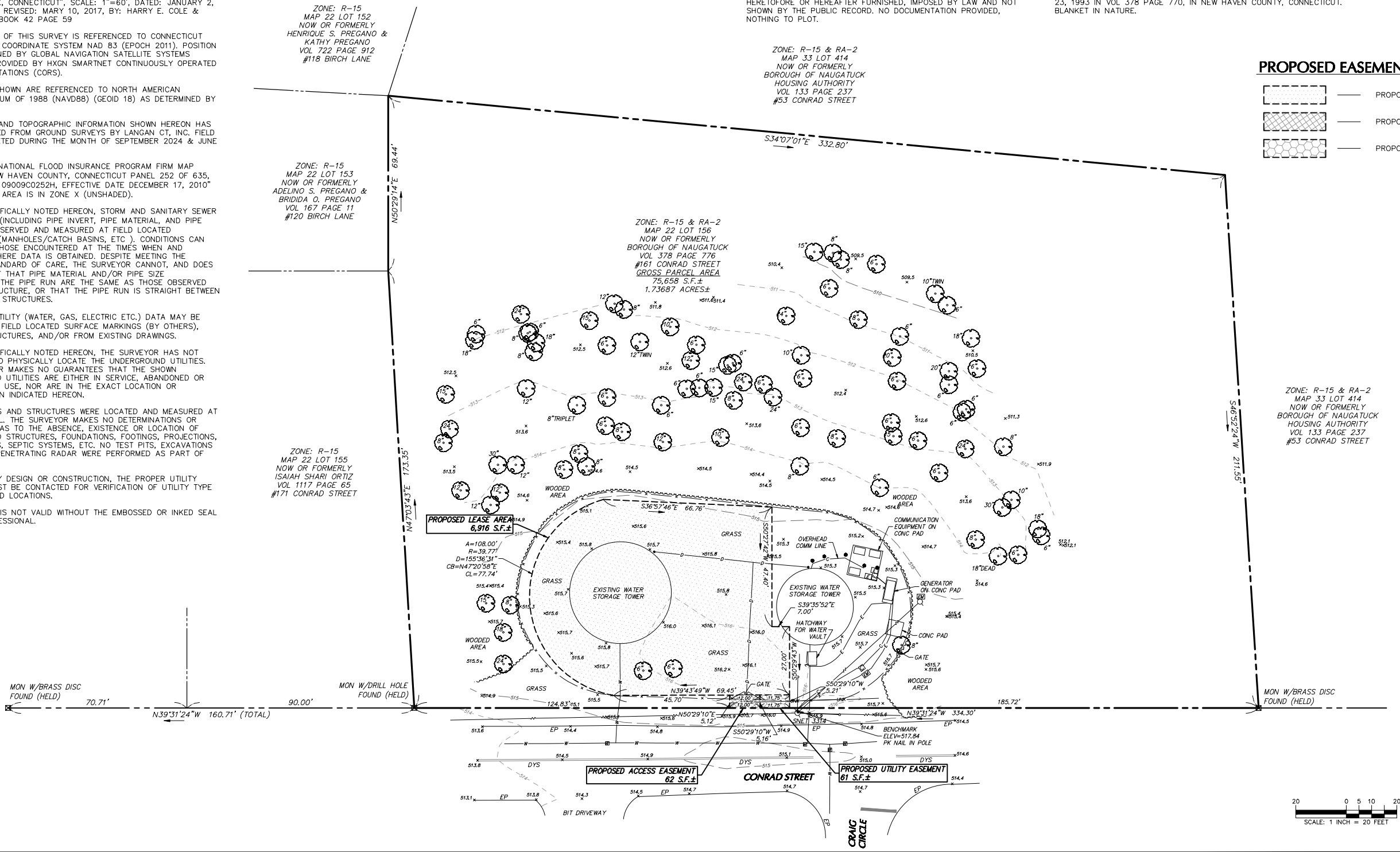
161 CONRAD STREET
MAP 22 LOT 156

NAUGATUCK CONNECTICUT

Drawing Title

PROPERTY & TOPOGRAPHIC SURVEY

Project No. 140304201	Drawing No. VB101
Date SEPTEMBER 10, 2024	
Drawn By JIS	
Checked By ACI	
Sheet 1 of 1	





MAP REFERENCE:

1. "PROPERTY & TOPOGRAPHIC SURVEY"; MAP: 22 LOT: 159
161 CONRAD STREET, NAUGATUCK, CONNECTICUT; PREPARED BY: LANGAN
CT, INC. w/ LATEST REVISION DATED: 02/13/25.
2. BASE. MAPPING SUPPLEMENTED W/ FIELD MEASUREMENTS OBTAINED BY
ALL-POINTS TECHNOLOGY CORPORATION ON 06/05/25.

SITE AREAS & VOLUMES OF EARTHWORK

SITEWORK ENTAILS APPROXIMATELY 100 CUBIC YARDS OF EXCAVATION. THE COMPOUND WILL IMPORT APPROXIMATELY 70 CUBIC YARDS OF CLEAN BROKEN STONE. THE UTILITY TRENCH FROM THE PROP. UTILITY POLE TO THE COMPOUND WILL EXCAVATE APPROXIMATELY 60 CUBIC YARDS OF MATERIAL THAT WILL BE USED TO BACKFILL THE TRENCH.

COMPOUND AREA SLOPES:
EXISTING - 4.0%
PROPOSED - 4.0%

TOTAL AREA OF DISTURBANCE = 8,850± SF

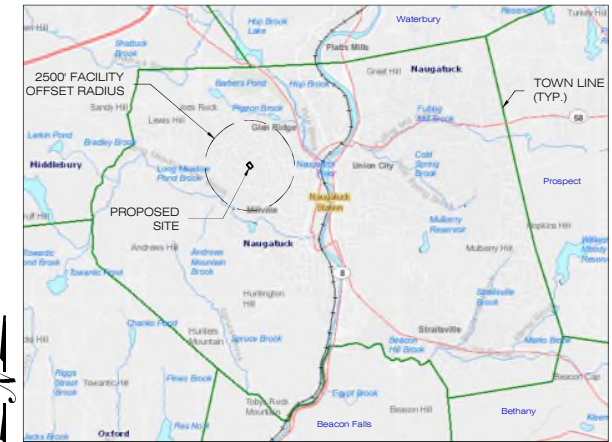
STORMWATER VELOCITY:
PRIOR TO GROUND COVER < 3.0 FT/SEC
FOLLOWING GROUND COVER < 3.0 FT/SEC

STORMWATER VOLUME:
PROPOSED IMPERVIOUS AREA = 1,500 SF
WATER QUALITY STD VOLUME (1.3") = 163 CF
STORAGE VOLUME (6" DEPTH, 40% VOIDS) = 558 CF

GROUND COVER TO BE ESTABLISHED AS FOLLOWS (U.O.N.):
- WHITE CLOVER @ 0.20#/- SF
- TALL FESCUE @ 0.45#/- SF
- RYEGRASS @ 0.10#/- SF

DISTANCE TO	PREVIOUS TOWER LOCATION	PREVIOUS COMPOUND LOCATION	NEW TOWER LOCATION	NEW COMPOUND LOCATION
NE PROPERTY LINE	186±	147±	149±	123±
NW PROPERTY LINE	90±	44±	114±	80±
SE PROPERTY LINE	243±	183±	219±	185±
SW PROPERTY LINE	46±	13±	82±	59±
NEAREST RESIDENCE	101±	53±	124±	89±

NOTE:
NO TREES WILL NEED TO BE REMOVED IN CONSTRUCTION OF THE FACILITY.



2 MUNICIPALITY NOTIFICATION LIMIT MAP
SP-1 SCALE: 1" = 1 MILE



D&M DOCUMENTS		
NO	DATE	REVISION
0	09/12/25	FOR REVIEW: RCB
1	10/06/25	CARRIER REVISIONS: RCB
2	10/29/25	ADD TOWER INFO: RCB
3	11/20/25	FINAL: RCB
4	12/02/25	AT&T EQUIP REVISIONS: RCB
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311, WATERFORD, CT 06385

OWNER: BOROUGH OF NAUGATUCK
ADDRESS: 229 CHURCH STREET, NAUGATUCK, CT 06770

CT1239 CONRAD ST

SITE: 161 CONRAD STREET
ADDRESS: NAUGATUCK, CT 06770

APT FILING NUMBER: CT752130
DRAWN BY: ELZ

DATE: 09/12/25
CHECKED BY: RCB

VZW MDG LOC. CODE: 616755202

VZW PSCL: 470709

VZW FUZE ID: 17453771

SHEET TITLE:

ABUTTERS & MUNICIPALITY NOTIFICATION MAP

SHEET NUMBER:

SP-1



8916 77th TERRACE EAST, SUITE 103
LAKEWOOD RANCH, FL 34202



567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
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Cellco Partnership d/b/a



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



15 COMMERCE WAY
SUITE B
NORTON, MA 02766



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

D&M DOCUMENTS

NO	DATE	REVISION
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6		

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: BOROUGH OF NAUGATUCK
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NAUGATUCK, CT 06770

CT1239 CONRAD ST

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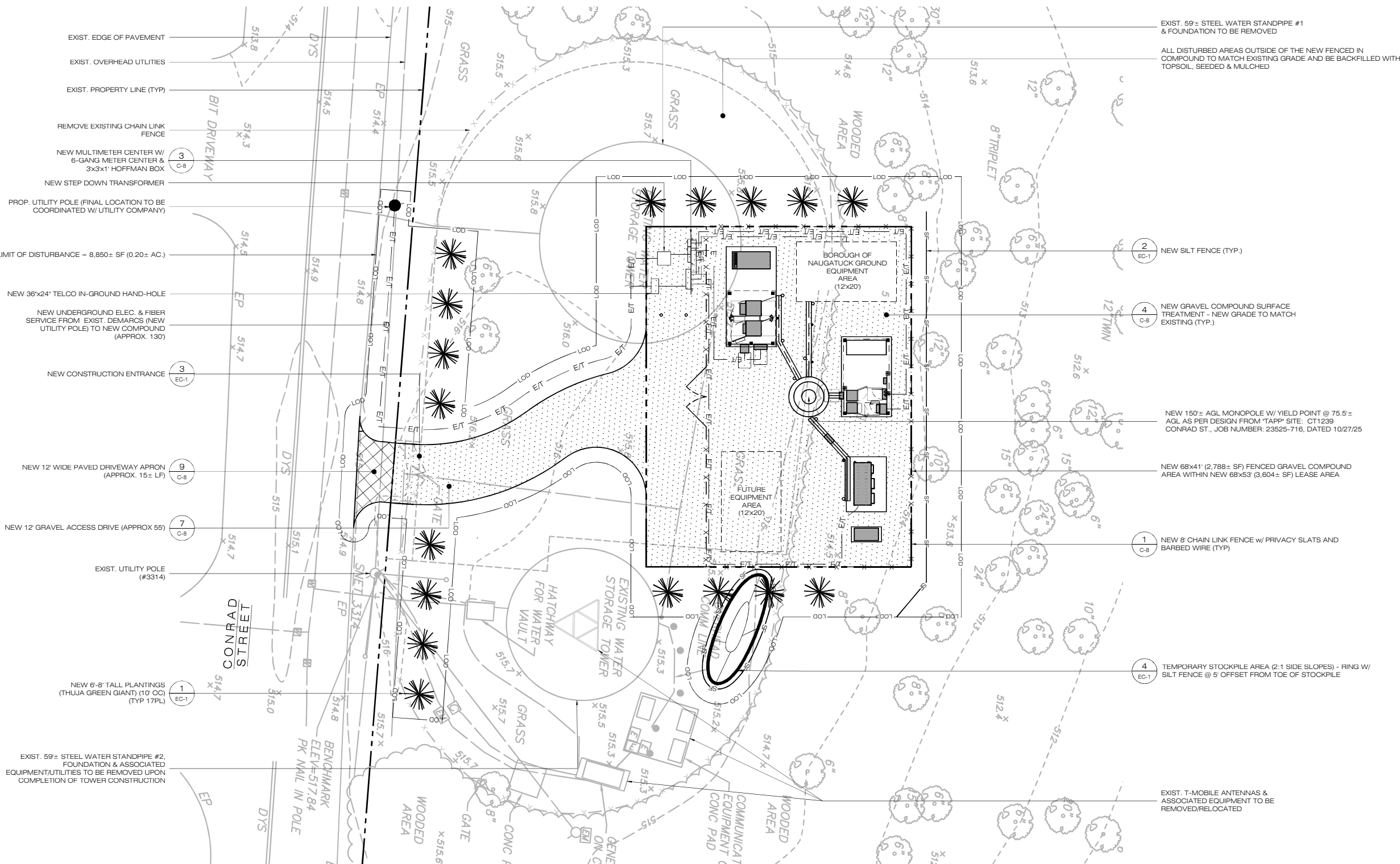
VZW FUZE ID: 17453771

SHEET TITLE:

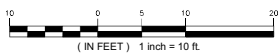
SITE PLAN

SHEET NUMBER:

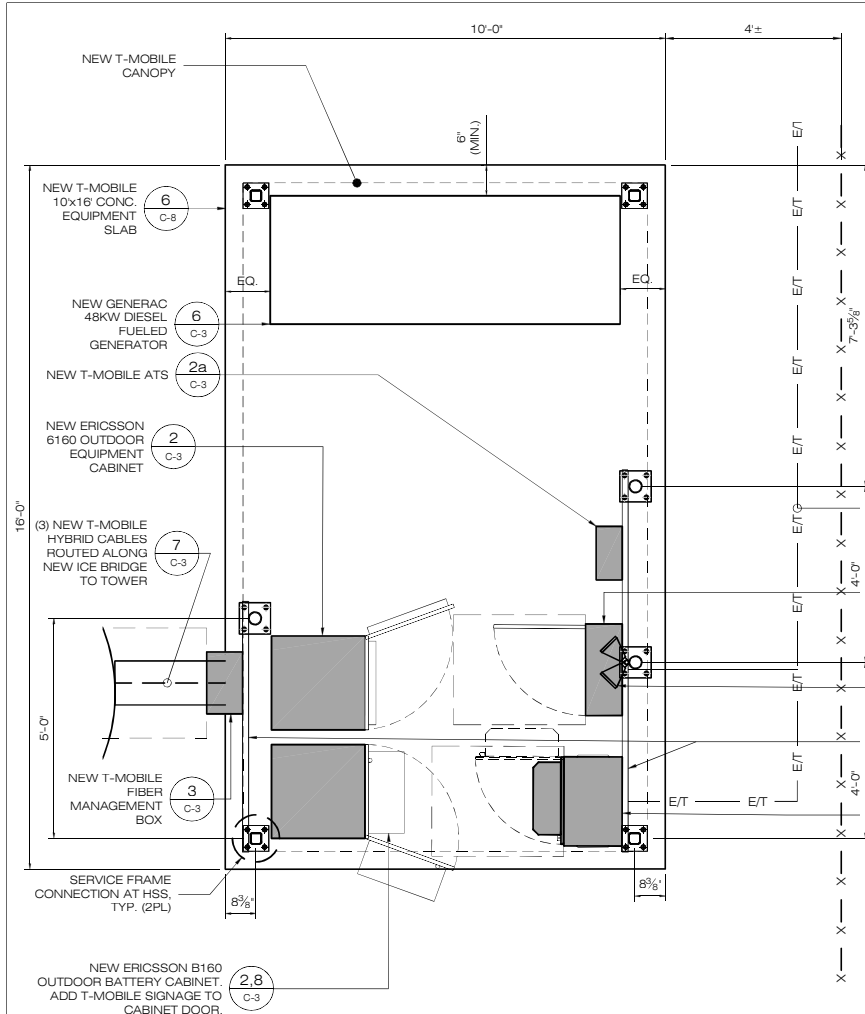
SP-2



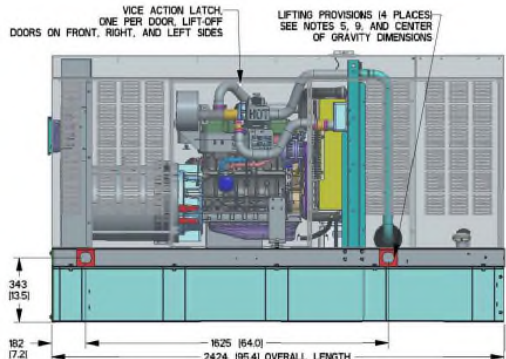
1 SITE PLAN
SP-2 SCALE: 1" = 10'-0"





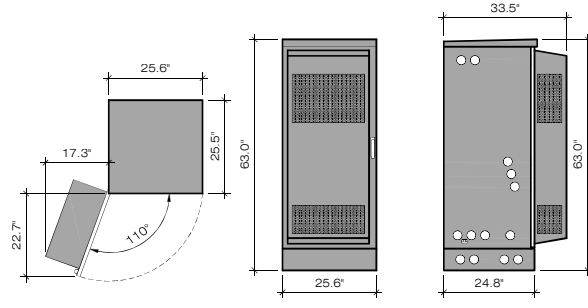


1 T-MOBILE EQUIPMENT AREA
C-3 SCALE: 1/2" = 1'-0"



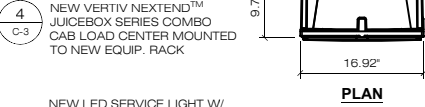
RIGHT SIDE VIEW
GENERAC 40kW DIESEL POWERED GENERATOR
MODEL # RD048-48KW
HxWxD: 57"x35"x95"
WEIGHT: 2,197 ± lbs

6 GENERATOR SCHEMATICS
C-3 SCALE: N.T.S.



ERICSSON 6160 OUTDOOR EQUIPMENT CABINET
63.25"Hx25.6"Wx33.5"D - 605 LBS
FASTEN TO SLAB WITH MANUFACTURERS STANDARD HARDWARE

NEW T-MOBILE UNDERGROUND ELECTRIC/TELCO SERVICE FROM NEW MULTIMETER CENTER & TELCO HOFFMAN BOX TO NEW EQUIP. RACK

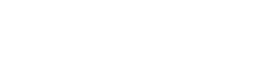


NEW VERTIV NEXTEND™ JUICEBOX SERIES COMBO CAB LOAD CENTER MOUNTED TO NEW EQUIP. RACK

NEW LED SERVICE LIGHT W/ 4-HR. TIMER SWITCH MOUNTED TO SUPPORT FRAME POST.

NEW EQUIPMENT SUPPORT FRAME (TYP., 2PL)

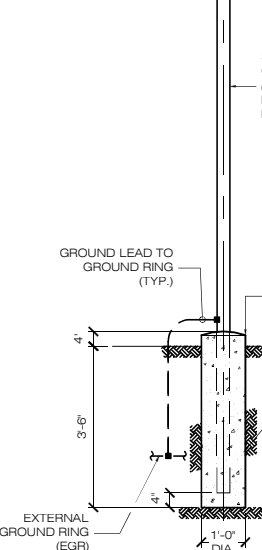
NEW VERTIV NEXTEND™ COMPACT2416 FIBER CABINET MOUNTED TO NEW EQUIP. RACK



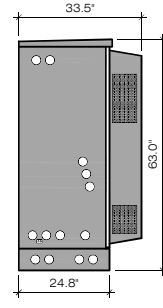
3 FIBER MANAGEMENT BOX
C-3 SCALE: 1" = 1'-0"

SITEPRO1 VERTICAL TRAPEZE LIT - 12 RUN (P/N VT12) @ 4'-0" O.C., (MAX).

SITEPRO1 CANTILVER GRIP-SPAN ICE BRIDGE KIT (P/N IB12D) w/ 3/2"Ø x 13'-4 LG. GALV. STEEL SUPPORT PIPE @ 10'-0" O.C., TYP.



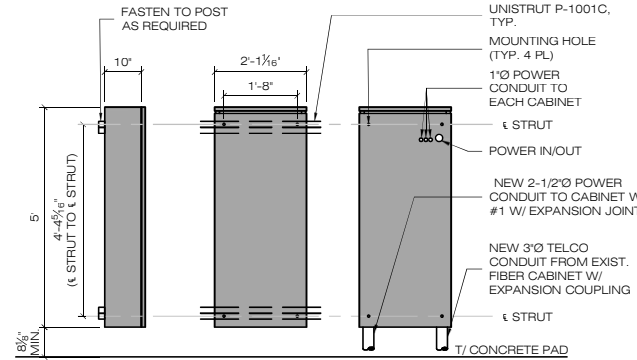
7 ICE BRIDGE DETAIL
C-3 SCALE: 1/2" = 1'-0"



ERICSSON B160 OUTDOOR BATTERY CABINET
63.25"Hx25.6"Wx29.0"D - 1883 LBS
FASTEN TO SLAB WITH MANUFACTURERS STANDARD HARDWARE

SECURE TO CONCRETE SLAB AS PER MANUFACTURER RECOMMENDATIONS

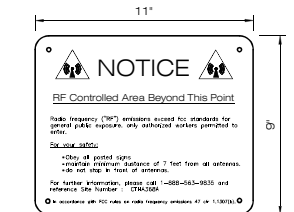
2 EQUIPMENT CABINETS
C-3 SCALE: 1/2" = 1'-0"



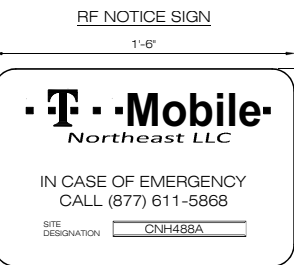
VERTIV NEXTEND™ JUICEBOX SERIES COMBO CAB LOAD CENTER
PART #CS7S2-W836

SECURE TO NEW UNISTRUT RACK AS PER MANUFACTURER RECOMMENDATIONS

4 T-MOBILE VERTIV NEXTEND™ COMBO CAB LOAD CENTER
C-3 SCALE: 1/2" = 1'-0"

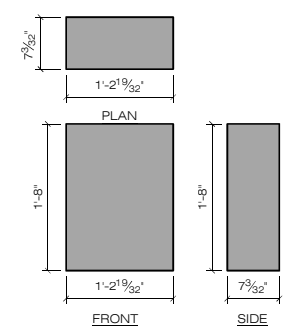


(WHITE METAL SIGN W/ BLACK LETTERING)
RF NOTICE SIGN



(RED METAL SIGN W/ WHITE LETTERING)
EMERGENCY SIGN

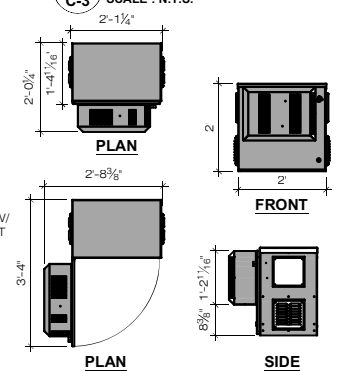
8 TYPICAL SIGNAGE
C-3 SCALE: N.T.S.



GENERAC AUTOMATIC TRANSFER SWITCH
MODEL #RXSC200A3
20"Hx14.6"Wx7.1"D (20 LBS.)

SECURE TO NEW UNISTRUT RACK AS PER MANUFACTURER RECOMMENDATIONS

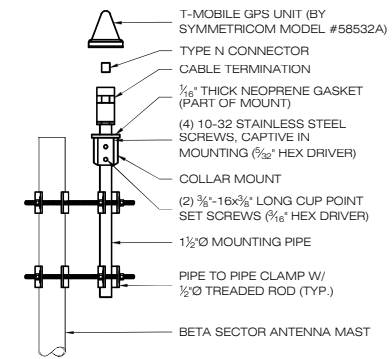
AUTOMATIC TRANSFER SWITCH
2a C-3 SCALE: N.T.S.



VERTIV NEXTEND™ COMPACT 2416 FIBER CABINET
24"Hx24"Wx16"D - 64 LBS (100 LBS w/ BATTERIES)

SECURE TO NEW UNISTRUT RACK AS PER MANUFACTURER RECOMMENDATIONS

5 T-MOBILE VERTIV NEXTEND™ COMPACT2416 FIBER CABINET
C-3 SCALE: 1/2" = 1'-0"



9 GPS MOUNT
C-3 SCALE: N.T.S.

TARPON TOWERS
8916 77th TERRACE EAST, SUITE 103
LAKEWOOD RANCH, FL 34202

ALL-POINTS TECHNOLOGY CORPORATION
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

T-Mobile Northeast LLC
15 COMMERCE WAY
SUITE B
NORTON, MA 02766

at&t
550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

D&M DOCUMENTS		
NO	DATE	REVISION
0	09/12/25	FOR REVIEW: RCB
1	10/06/25	CARRIER REVISIONS: RCB
2	10/29/25	ADD TOWER INFO: RCB
3	11/20/25	FINAL: RCB
4	12/02/25	AT&T EQUIP REVISIONS: RCB
5		
6		

DESIGN PROFESSIONALS OF RECORD
PROF: ROBERT C. BURNS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385
OWNER: BOROUGH OF NAUGATUCK
ADDRESS: 229 CHURCH STREET NAUGATUCK, CT 06770

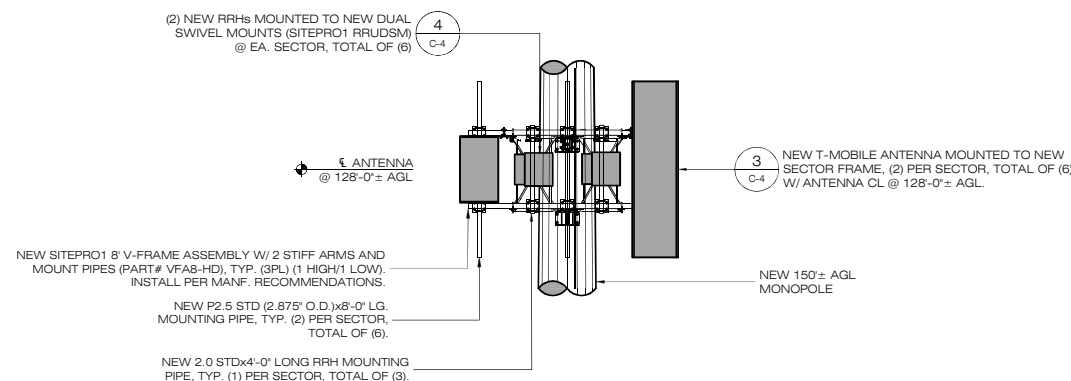
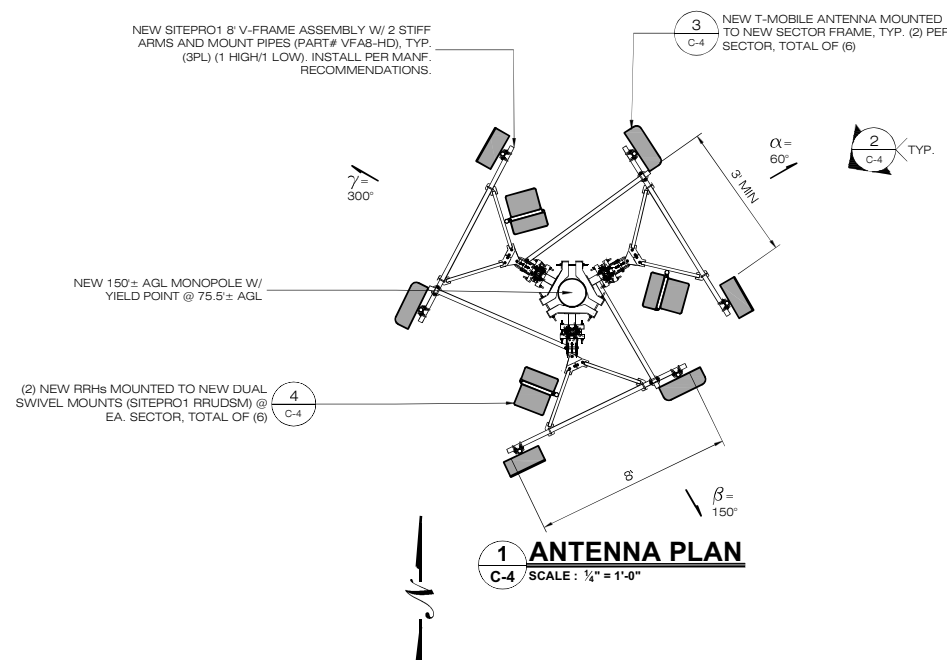
CT1239 CONRAD ST	
SITE	161 CONRAD STREET
ADDRESS:	NAUGATUCK, CT 06770
APT FILING NUMBER:	CT752130
	DRAWN BY: ELZ
DATE:	09/12/25
	CHECKED BY: RCB
VZW MDG LOC. CODE:	616755202
VZW PSLC:	470709
VZW FUZE ID:	17453771

SHEET TITLE:
T-MOBILE EQUIPMENT PLAN & DETAILS

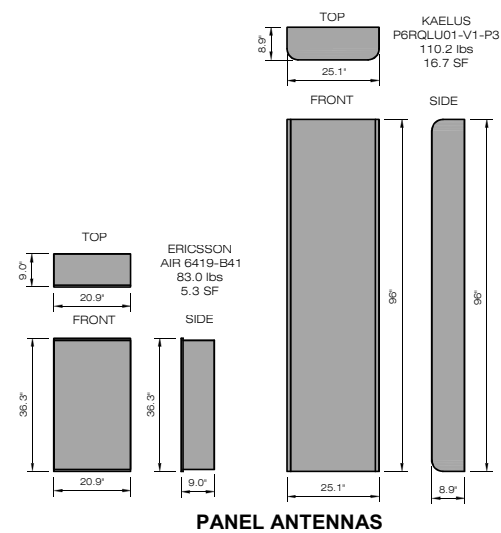
SHEET NUMBER:
C-3

STATE OF CONNECTICUT
Professional Engineer
Robert C. Burns
No. 12345
Exp. 12/31/2026

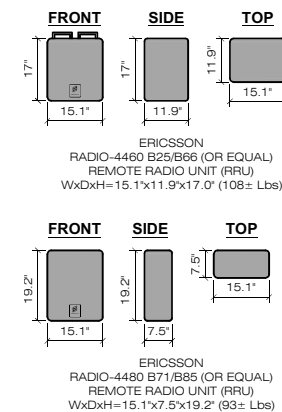
1. CONTRACTOR TO VERIFY DIAMETER OF MONOPOLE PRIOR TO ORDERING ANTENNA MOUNT.
2. CONTRACTOR TO VERIFY PART NUMBERS WITH MANUFACTURER PRIOR TO ORDERING.
3. INSTALL PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.



2 ANTENNA MOUNTING DETAIL



3 ANTENNA DETAIL
C-4 SCALE: $\frac{1}{2}" = 1'-0"$



4 RRU EQUIPMENT
C-4 SCALE : 1/2" = 1'-0"



8916 77th TERRACE EAST, SUITE 103
LAKEWOOD RANCH, FL 34202



567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

Cellco Partnership d/b/a



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



15 COMMERCE WAY
SUITE B
NORTON, MA 02766



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

D&M DOCUMENTS		
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4	12/02/25	AT&T EQUIP REVISIONS: RCB
5		
6		

DESIGN PROFESSIONALS OF RECORD	
<p>ARCHITECT HKS, INC. 10000 North Central Expressway Suite 200 Dallas, Texas 75243 Tel: 972/961-6000 Fax: 972/961-6001 hks.com</p>	<p>ENGINEER HKS, INC. 10000 North Central Expressway Suite 200 Dallas, Texas 75243 Tel: 972/961-6000 Fax: 972/961-6001 hks.com</p>

PROF: ROBERT C. BURNS, P.E.
COMP: ALL-POINTS TECHNOLOGY
CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT.
SUITE 311
WATERFORD, CT 06385

OWNER: BOROUGH OF NAUGATUCK
ADDRESS: 229 CHURCH STREET
NAUGATUCK, CT 06770

CT1239 CONRAD ST

SITE 161 CONRAD STREET
ADDRESS: NAUGATUCK, CT 06770

APT FILING NUMBER: CT752130

	DRAWN BY: ELZ
DATE: 09/12/25	CHECKED BY: RCB

VZW MDG LOC. CODE: 616755202

VZW PSLC:	470709
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VZW FUZE ID: 17453771

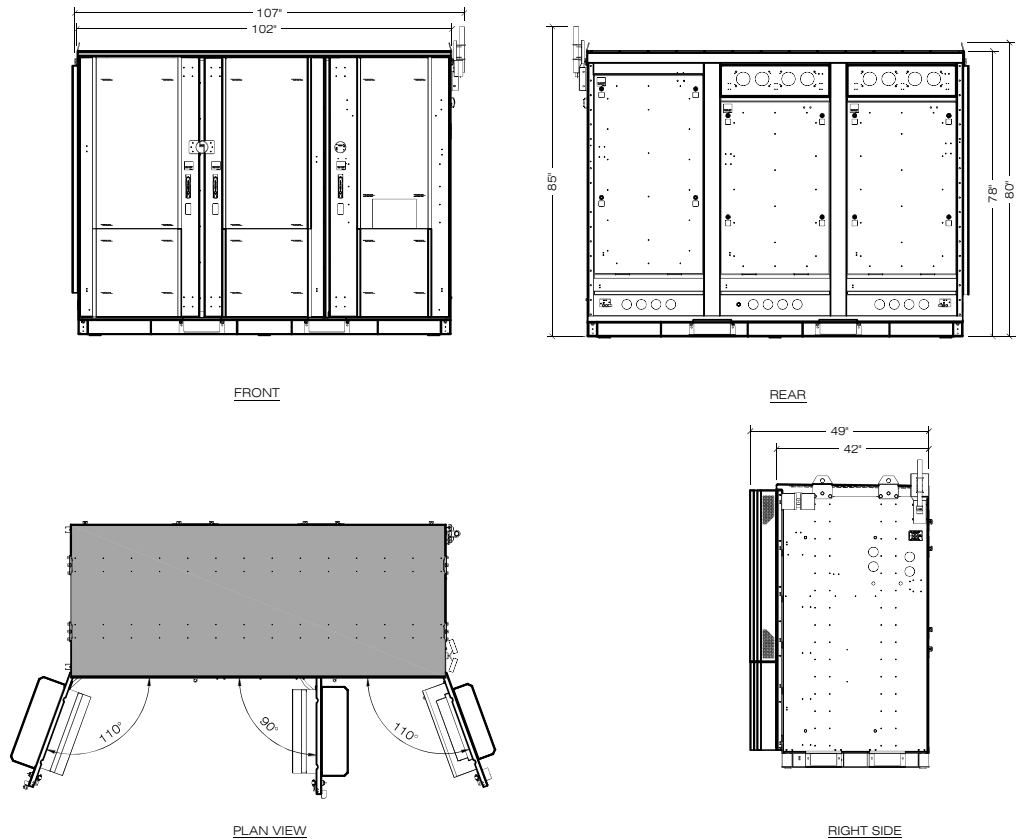
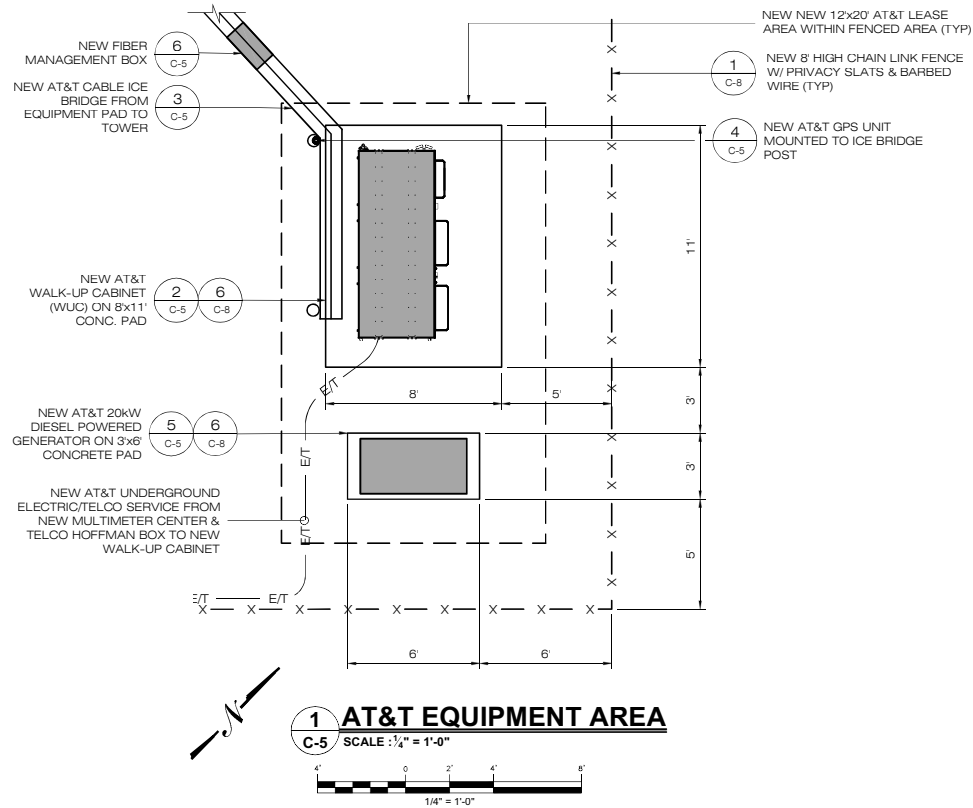
SHEET TITLE:

T-MOBILE ANTENNA PLAN & DETAILS

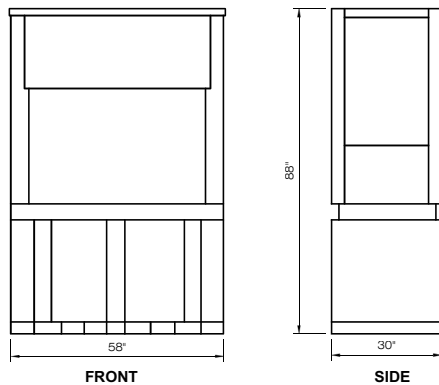
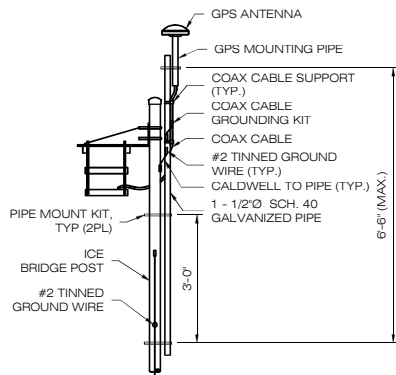
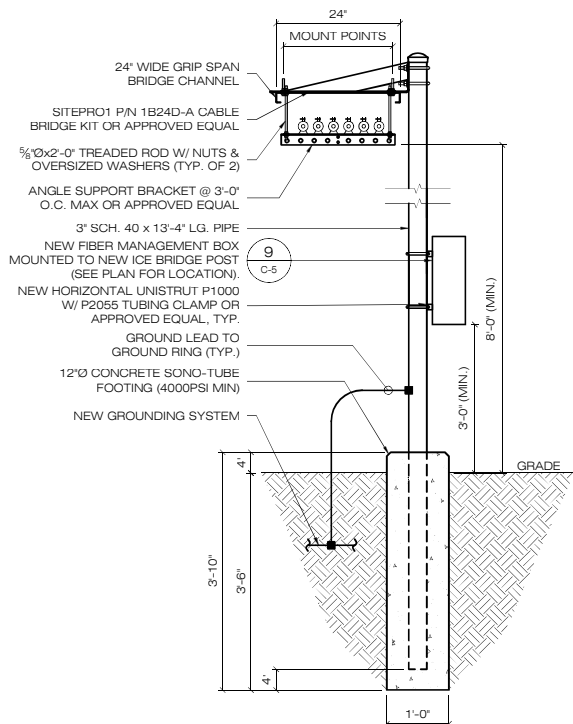
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C-4

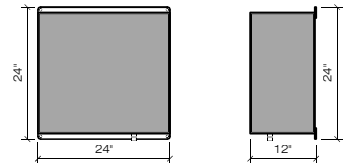




2 WUC EQUIPMENT DETAILS
C-5 / SCALE : N.T.S.



5 DIESEL GENERATOR
C-5 / SCALE : 1/4" = 1'-0"



TARPON TOWERS
8916 77th TERRACE EAST, SUITE 103
LAKEWOOD RANCH, FL 34202

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WATERFORD, CT 06385 PHONE: (860)-663-1697
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D&M DOCUMENTS		
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CT1239 CONRAD ST

SITE: 161 CONRAD STREET
ADDRESS: NAUGATUCK, CT 06770

APT FILING NUMBER: CT752130

DRAWN BY: ELZ

DATE: 09/12/25 CHECKED BY: RCB

VZW MDG LOC. CODE: 616755202

VZW PSLC: 470709

VZW FUZE ID: 17453771

SHEET TITLE:

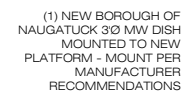
AT&T EQUIPMENT PLAN & DETAILS

SHEET NUMBER:

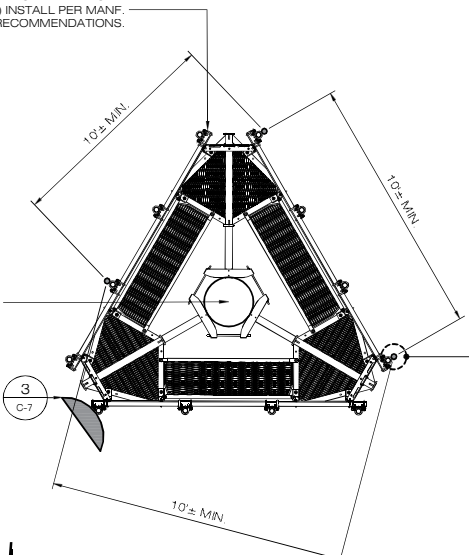
C-5







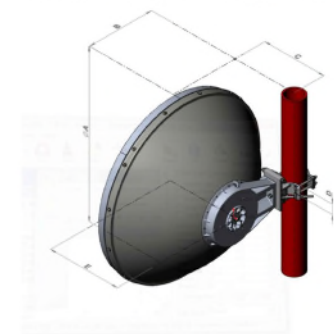
1. CONTRACTOR TO VERIFY DIAMETER OF MONOPOLE PRIOR TO ORDERING ANTENNA MOUNT.
2. CONTRACTOR TO VERIFY PART NUMBERS WITH MANUFACTURER PRIOR TO ORDERING.
3. INSTALL PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS.



(3) NEW BOROUGH OF NAUGATUCK
WHIP ANTENNAS & (1) TOWER TOP
AMPLIFIER MOUNTED TO NEW
PLATFORM - MOUNT PER
MANUFACTURER RECOMMENDATIONS
(TYP)

C-7 SCALE : $\frac{1}{4}" = 1'-0"$

Antenna Dimensions and Mounting Information



Dimension in inches (mm)					
Antenna size, ft (m)	A	B	C	D	E
3 (1.0)	39.3 (999)	16 (407)	15.2 (387)	2.4 (60)	17.2 (437)

Axial Force (FA)	2903 N 652.621 lbf
Angle a for MT Max	0°
Side Force (FS)	1439 N 323.5 lbf
Twisting Moment (MT)	1170 N-m 16,435.029 in-lb
Zog without ice	135 mm 5.315 in
Zog with 1/2 in (12 mm) Radial Ice	84 mm 3.307 in
Weight with 1/2 in (12 mm) Radial Ice	46 kg 101.413 lb

—

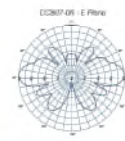
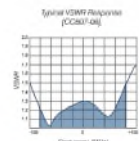
CC807 Series



Gain is maximised and side lobes reduced dramatically. In a patented design approach the individual dipole elements are soldered to a brass support tube which is directly connected to the mounting tube and the lightning spike at the top of the antenna.

■ 25 kW Peak instantaneous (PIF) rating

- DC grounding on all elements for the ultimate in lightning protection and dissipation of static noise



Model Number	CC807-62-P	CC807-66-P	CC807-68-P	CC807-111-P
Nominal Gain dBS (c0dB)	-3 (±1)	6 (±5)	8 (±1)	10.5 (±2.6)
Frequency MHz			748 - 870	
Tuned Bandwidth MHz			Full Band	
VSWR (Return Loss)			<1.5:1	
Downlink ¹⁾	Not Offered	3 "Std", "3", "5"	0 "Std", "1", "2", "3", "4", "5"	
Vertical Beamwidth ²⁾	26	17	9	4.5
Horizontal Beamwidth ³⁾			Omni ± 6.5dB	
Input Power W	250		500	
Passive IM3rd order (30MHz) dBc			-150	
Peak Intermodulation Power W			25	

Model Number	CC08T-63-P	CC08T-96-P	CC08T-06-P	CC08T-11-P
Construction	Dry Blast (Kerosene medium)			
Length mm (inches)	1203 (4.7)	1741 (68)	2817 (111)	5219 (205)
Radiused Diameter mm (inches)			26 (3)	
Weight kg (lbs)	4 (9)	7 (16)	13(27)	22 (48)
Shipping Weight kg (lbs)		11 (24)	16 (35)	30 (66)
Shipping Dimensions mm (inches)	H W L		115 (4.5) 115 (4.5)	
	1400 (55)	1000 (79)	3000 (118)	5600 (220)
Termination	4.3-10 fixed female			
Suggested Clamps (not included)	2 X UG-114			
Inventory Mooring	Yes (1)			
Projected area cm ² (ft ²)	No ice With ice	695 (5.9) 1048 (7.4)	1268 (1.4) 1571 (1.7)	2300 (2.6) 2882 (3.1)
Lateral Thrust @ 100kN/m (1000 mbf) max		96 (62)	210 (24)	275 (32)
Wind Gust Rating km/h (mph)	No ice		>240 (>150)	
Latent Heat @ 100kN/m (1000 mbf) max		20 (15)	73 (54)	276 (209)
				1030 (761)

(†) To order pre-set download versions available, simply add a -T2 or -T4, etc. towards the end of the part number to denote the download model required. For eg. CC807-T1-T2-P to order a CC807-T1-P with 2 deg of download. Please note: Models with download are NOT field serviceable.

Asia Pacific | EMEA | Americas
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C-7 SCALE : NTS

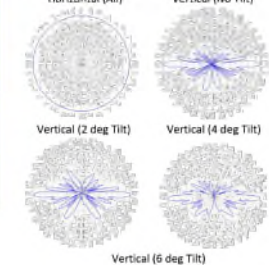
Models DS7C09P36U-Series Antennas

Specifications	
Design Type	True Corporate Feed
Frequency Range	764-869 MHz
Passive Intermodulation – PIM	-150 dBc, 3 rd Order (2 x 20W sources)
Bandwidth	105 MHz
Gain (average over BW)	8.8 dBd
Configuration	Single antenna
Beam Tilt (electrical downtilt)	(x) = -, 2, 3, 4, or 6 degrees
Vertical Beamwidth (1-Plane) typ.	6.1°
Impedance	50 ohms
VSWR / Return Loss	1.5:1 / 14 dB (min.)
Average Power Rating	500 W
Peak Instantaneous Power	25 kW
Polarization	Vertical
Lightning Protection	Direct Ground
Connector	
DS7C09P36U(x)JD	7/16 DIN (F)
DS7C09P36U(x)JM	4.3-10 (F)
Equivalent Flat-Plate Area	2.35 sq. ft.
Lateral Windload Thrust @100mph	99 lbf.
Rated Wind Speed	175 mph (without ice) 149 mph (with 1/2" radial ice)
Total Length	14.2 feet
Mounting Mast Length	35 inches
Mounting Hardware (included)	DSHBV3N
Mast O.D.	2.5 inches
Radome color	Horizon Blue
Radome O.D.	3.0 inches
Weight, antenna, and hardware	68 lbs.
Shipping Weight	84 lbs.
Invertibility	Antennas are not invertible. For invertible tilt options contact dbSpectra@tech.dbspectra.com
Ordering Information	<ol style="list-style-type: none"> 1. Replace (x) in model number with Beam Tilt options. 2. " - " in the beam tilt options represents 0° down-tilt.
DS7C09P36U(x)JD – 7/16 DIN Connector	
DS7C09P36U(x)JM – 4.3-10 Connector	



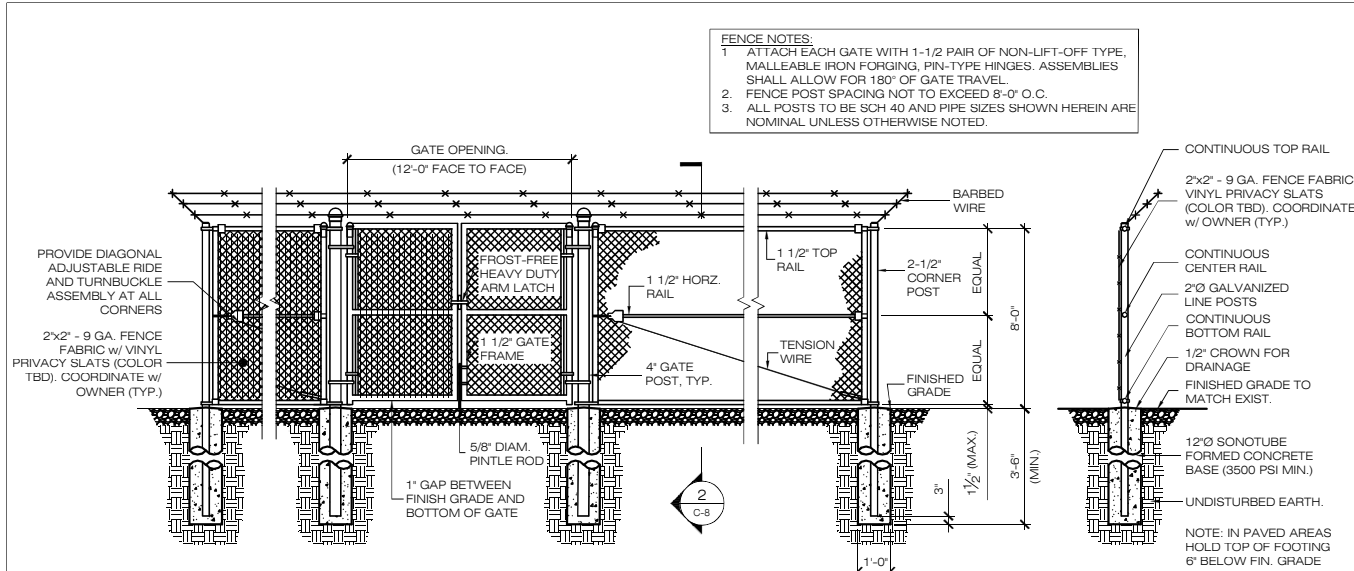
Excellent Lightning Protection – heavy internal conductor DC ground.

	Horizontal (All)	Vertical (No Tilt)
1. <i>Staphylococcus aureus</i>	100	100
2. <i>Staphylococcus epidermidis</i>	100	100
3. <i>Staphylococcus saprophyticus</i>	100	100
4. <i>Staphylococcus carnosus</i>	100	100
5. <i>Staphylococcus sciuri</i>	100	100
6. <i>Staphylococcus hyicus</i>	100	100
7. <i>Staphylococcus epidermidis</i> ATCC 12228	100	100
8. <i>Staphylococcus aureus</i> ATCC 29214	100	100
9. <i>Staphylococcus aureus</i> ATCC 13566	100	100
10. <i>Staphylococcus aureus</i> ATCC 13591	100	100
11. <i>Staphylococcus aureus</i> ATCC 13592	100	100
12. <i>Staphylococcus aureus</i> ATCC 13593	100	100
13. <i>Staphylococcus aureus</i> ATCC 13594	100	100
14. <i>Staphylococcus aureus</i> ATCC 13595	100	100
15. <i>Staphylococcus aureus</i> ATCC 13596	100	100
16. <i>Staphylococcus aureus</i> ATCC 13597	100	100
17. <i>Staphylococcus aureus</i> ATCC 13598	100	100
18. <i>Staphylococcus aureus</i> ATCC 13599	100	100
19. <i>Staphylococcus aureus</i> ATCC 13600	100	100
20. <i>Staphylococcus aureus</i> ATCC 13601	100	100
21. <i>Staphylococcus aureus</i> ATCC 13602	100	100
22. <i>Staphylococcus aureus</i> ATCC 13603	100	100
23. <i>Staphylococcus aureus</i> ATCC 13604	100	100
24. <i>Staphylococcus aureus</i> ATCC 13605	100	100
25. <i>Staphylococcus aureus</i> ATCC 13606	100	100
26. <i>Staphylococcus aureus</i> ATCC 13607	100	100
27. <i>Staphylococcus aureus</i> ATCC 13608	100	100
28. <i>Staphylococcus aureus</i> ATCC 13609	100	100
29. <i>Staphylococcus aureus</i> ATCC 13610	100	100
30. <i>Staphylococcus aureus</i> ATCC 13611	100	100
31. <i>Staphylococcus aureus</i> ATCC 13612	100	100
32. <i>Staphylococcus aureus</i> ATCC 13613	100	100
33. <i>Staphylococcus aureus</i> ATCC 13614	100	100
34. <i>Staphylococcus aureus</i> ATCC 13615	100	100
35. <i>Staphylococcus aureus</i> ATCC 13616	100	100
36. <i>Staphylococcus aureus</i> ATCC 13617	100	100
37. <i>Staphylococcus aureus</i> ATCC 13618	100	100
38. <i>Staphylococcus aureus</i> ATCC 13619	100	100
39. <i>Staphylococcus aureus</i> ATCC 13620	100	100
40. <i>Staphylococcus aureus</i> ATCC 13621	100	100
41. <i>Staphylococcus aureus</i> ATCC 13622	100	100
42. <i>Staphylococcus aureus</i> ATCC 13623	100	100
43. <i>Staphylococcus aureus</i> ATCC 13624	100	100
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45. <i>Staphylococcus aureus</i> ATCC 13626	100	100
46. <i>Staphylococcus aureus</i> ATCC 13627	100	100
47. <i>Staphylococcus aureus</i> ATCC 13628	100	100
48. <i>Staphylococcus aureus</i> ATCC 13629	100	100
49. <i>Staphylococcus aureus</i> ATCC 13630	100	100
50. <i>Staphylococcus aureus</i> ATCC 13631	100	100
51. <i>Staphylococcus aureus</i> ATCC 13632	100	100
52. <i>Staphylococcus aureus</i> ATCC 13633	100	100
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54. <i>Staphylococcus aureus</i> ATCC 13635	100	100
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61. <i>Staphylococcus aureus</i> ATCC 13642	100	100
62. <i>Staphylococcus aureus</i> ATCC 13643	100	100
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70. <i>Staphylococcus aureus</i> ATCC 13651	100	100
71. <i>Staphylococcus aureus</i> ATCC 13652	100	100
72. <i>Staphylococcus aureus</i> ATCC 13653	100	100
73. <i>Staphylococcus aureus</i> ATCC 13654	100	100
74. <i>Staphylococcus aureus</i> ATCC 13655	100	100
75. <i>Staphylococcus aureus</i> ATCC 13656		

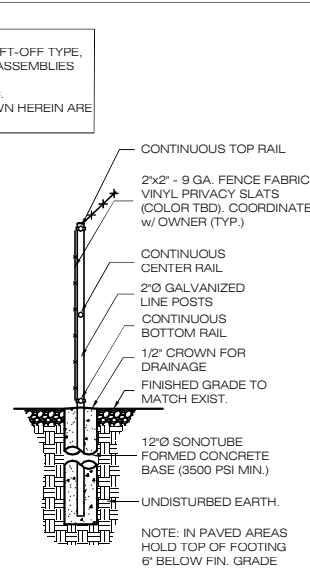


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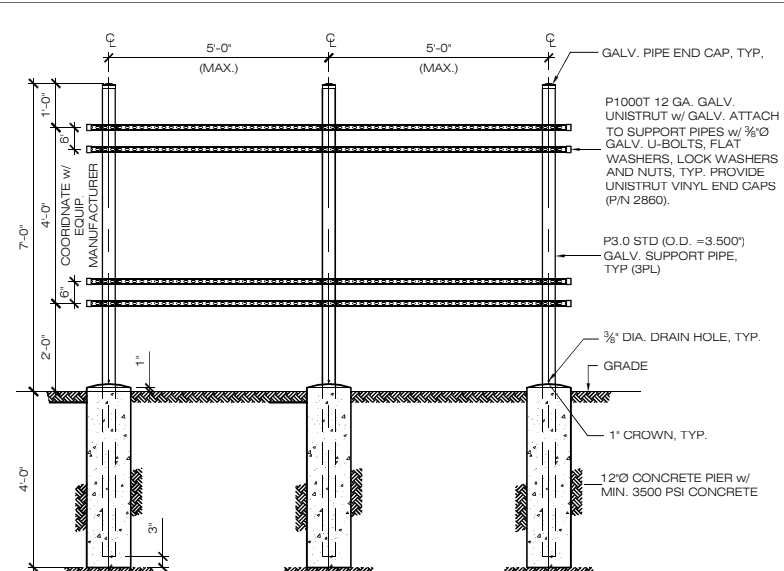
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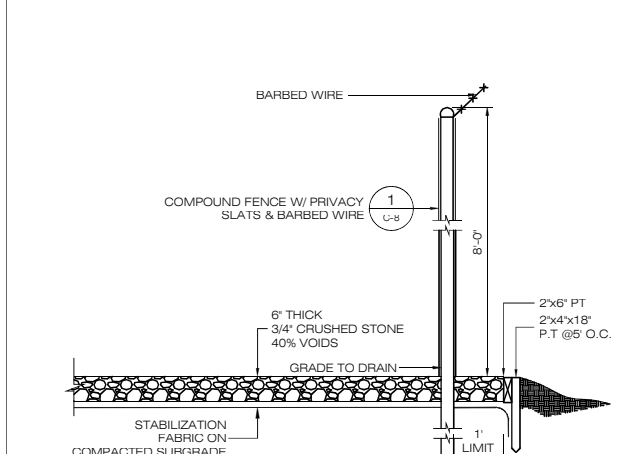
1 CHAIN-LINK FENCING DETAIL
C-8 SCALE : N.T.S.



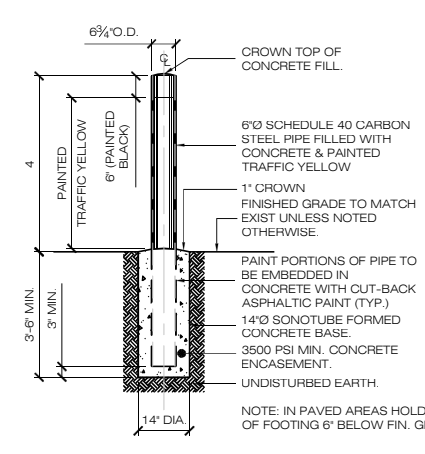
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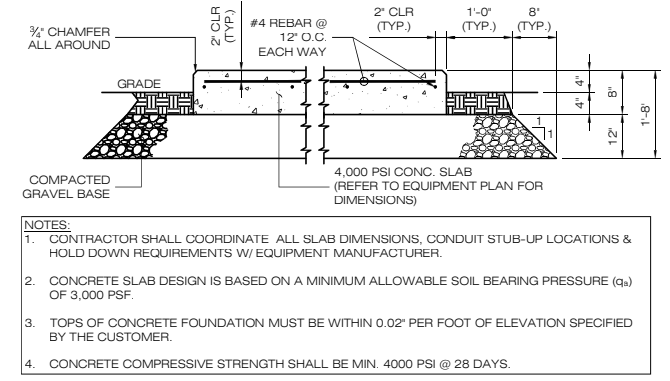
3 UTILITY SERVICE FRAME DETAIL
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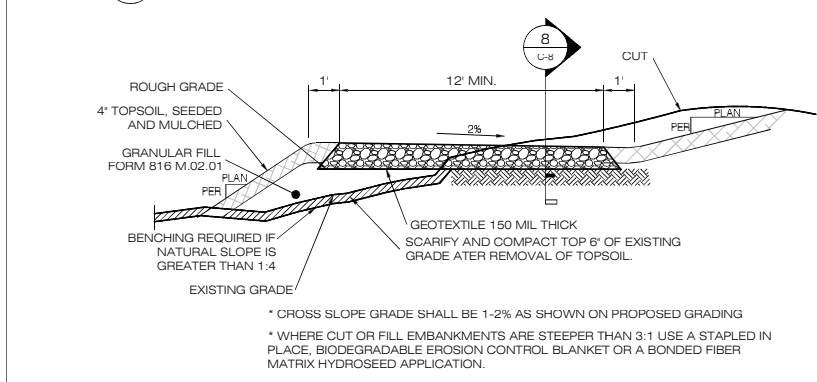
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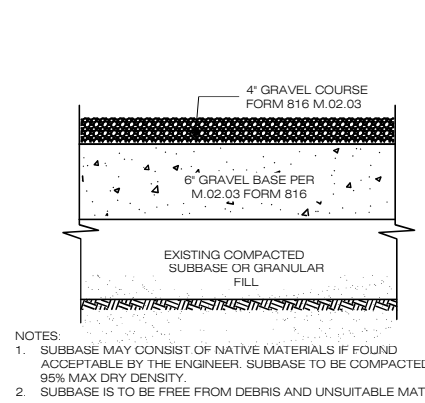
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C-8 SCALE : N.T.S.



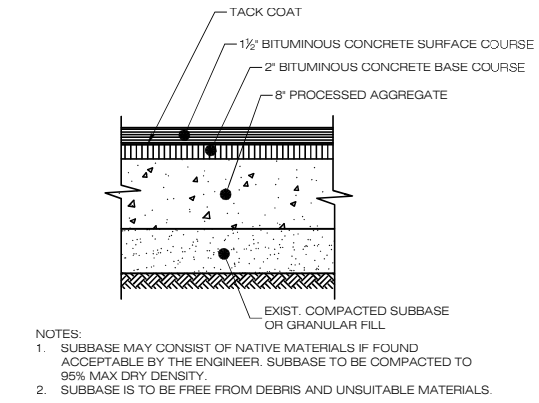
6 TYPICAL CONCRETE PAD DETAIL
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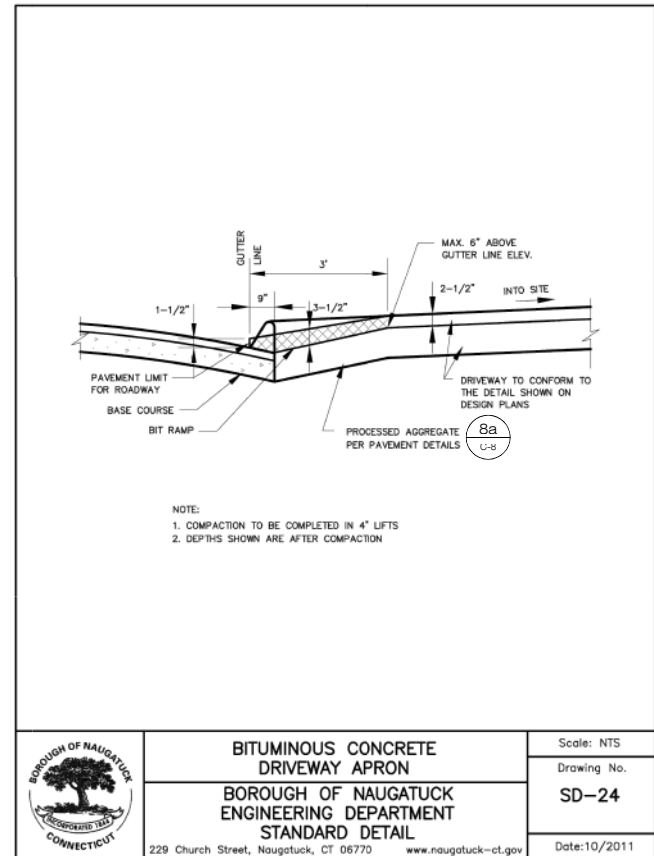
7 TYPICAL ACCESS DWY CROSS SECTION
C-8 SCALE : N.T.S.



8 GRAVEL ACCESS DRIVE /TURN AROUND SECTION
C-8 SCALE : N.T.S.



8a PAVED ACCESS DRIVE SECTION
C-8 SCALE : N.T.S.



9 PAVED DRIVEWAY APRON SECTION
C-7 SCALE : N.T.S.

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WALLINGFORD, CT 06492

Northeast LLC

15 COMMERCE WAY
SUITE B
NORTON, MA 02766

550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

D&M DOCUMENTS		
NO	DATE	REVISION
0	09/12/25	FOR REVIEW: RCB
1	10/06/25	CARRIER REVISIONS: RCB
2	10/29/25	ADD TOWER INFO: RCB
3	11/20/25	FINAL: RCB
4	12/02/25	AT&T EQUIP REVISIONS: RCB
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: BOROUGH OF NAUGATUCK
ADDRESS: 229 CHURCH STREET
NAUGATUCK, CT 06770

CT1239 CONRAD ST

SITE: 161 CONRAD STREET
ADDRESS: NAUGATUCK, CT 06770

APT FILING NUMBER: CT752130

DRAWN BY: ELZ

DATE: 09/12/25

CHECKED BY: RCB

VZW MDG LOC. CODE: 616755202

VZW PSIC: 470709

VZW FUZE ID: 17453771

SHEET TITLE:

SITE DETAILS

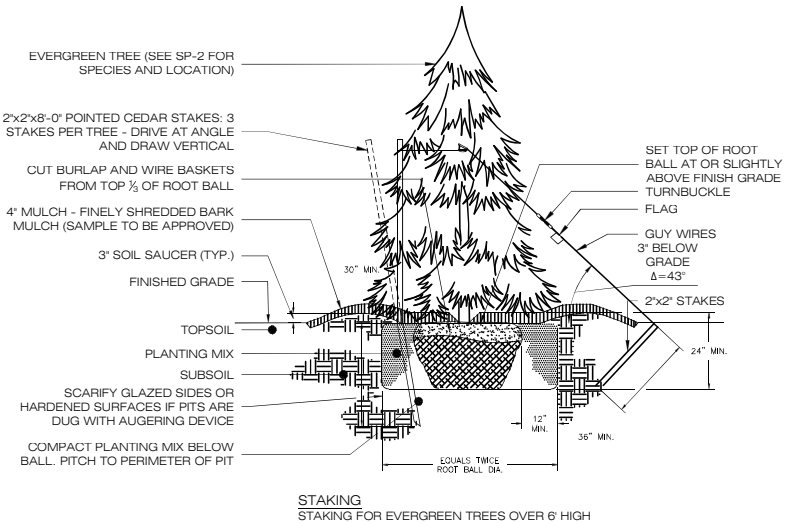
SHEET NUMBER:

C-8

EROSION CONTROL NOTES

EROSION AND SEDIMENT CONTROL PLAN NOTES

- THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. LATEST EDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE BOROUGH OF NAUGATUCK AND/OR PERMITTEE. ALL PERIMETER SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.
- THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. SEE CONSTRUCTION SEQUENCING FOR ADDITIONAL INFORMATION. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN AS REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO STORM DRAINAGE SYSTEMS AND/OR WATERCOURSES. ACTUAL SITE CONDITIONS OR SEASONAL AND CLIMATIC CONDITIONS MAY WARRANT ADDITIONAL CONTROLS OR CONFIGURATIONS, AS REQUIRED, AND AS DIRECTED BY THE PERMITTEE AND/OR SWPOP MONITOR. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- A BOND OR LETTER OF CREDIT MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND MAINTENANCE.
- THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPAL OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR INSTALLED SEDIMENTATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A 30.0MM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS AS NECESSARY IN A TIMELY MANNER.
- THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (SILT FENCE, COMPOST FILTER SOCK, EROSION CONTROL BLANKET, ETC.) ON-SITE FOR PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.
- ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
- PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING, ORANGE SAFETY FENCE, CONSTRUCTION TAPE, OR EQUIVALENT FENCING/TAPE. ANY LIMB TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA. FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- CONSTRUCTION ENTRANCES (ANTI-TRACKING PADS) SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION IF REQUIRED. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED. CONTRACTOR SHALL ENSURE THAT ALL VEHICLES EXITING THE SITE ARE PASSING OVER THE ANTI-TRACKING PADS PRIOR TO EXISTING.
- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, REBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER.
- NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS. ALL SLOPES SHALL BE SEEDED AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE CONFORMING TO THE GUIDELINES WITHIN THE APPROVED LIMIT OF DISTURBANCE IF REQUIRED. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE PERMITTEE OR MUNICIPALITY.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES AND SECURED APPROPRIATELY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKLER.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.
- VEGETATIVE ESTABLISHMENT SHALL OCCUR ON ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION, IT IS COVERED IN STONE OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.
- MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP CONCRETE PADS, CLEAN THE STORMWATER MANAGEMENT SYSTEMS AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM PERMITTEE OR THE MUNICIPALITY.
- SEEDING MIXTURES SHALL BE NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX, OR APPROVED EQUAL BY OWNER.



1 **EVERGREEN TREE PLANTING**
EC-1 / SCALE : N.T.S.

SEDIMENT & EROSION CONTROL NARRATIVE

- THE PROJECT INCLUDES THE INSTALLATION OF A 150'± AGL MONOPOLE WITH ASSOCIATED GROUND MOUNTED EQUIPMENT. ALL DISTURBED AREAS ARE TO BE SEEDED AND STABILIZED PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT.

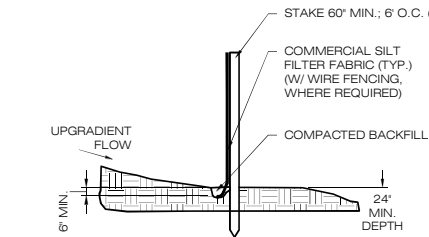
THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:
A. CONSTRUCTION OF 150'± AGL MONOPOLE.
C. CONSTRUCTION OF A 41'x68' (2,788± SF) FENCED EQUIPMENT COMPOUND W/ GRAVEL SURFACE TREATMENT AND ASSOCIATED UTILITIES.
D. CONSTRUCTION OF A 55'± 12' WIDE GRAVEL ACCESS DRIVE.
E. CONSTRUCTION OF CONCRETE EQUIPMENT PADS W/ EQUIPMENT CABINETS & DIESEL FIRED GENERATORS.
F. THE STABILIZATION OF PERVIOUS DISTURBED AREAS WITH PERMANENT GRASS TREATMENTS.
- FOR THIS PROJECT, THERE ARE APPROXIMATELY 8,850± SF OF THE SITE BEING DISTURBED.
- A GEOTECHNICAL ENGINEERING REPORT BY DELTA OAKS GROUP DATED OCTOBER 14, 2024 HAS BEEN COMPLETED FOR THIS PROJECT IS AVAILABLE UNDER SEPARATE COVER.
- IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 12 WEEKS.
- REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.
- MEASURES ARE BASED UPON ENGINEERING PRACTICE, JUDGEMENT AND THE APPLICABLE SECTIONS OF THE 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- DETAILS FOR THE TYPICAL EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON PLAN SHEET C-1 OR PROVIDED AS SEPARATE SUPPORT DOCUMENTATION FOR REVIEW IN THIS PLAN.
- CONSERVATION PRACTICES TO BE USED DURING CONSTRUCTION AREA:
A. STAGED CONSTRUCTION;
B. MINIMIZE THE DISTURBED AREAS DURING CONSTRUCTION;
C. STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE WITH TEMPORARY OR PERMANENT MEASURES;
D. MINIMIZE IMPERVIOUS AREAS;
E. UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.

SUGGESTED CONSTRUCTION SEQUENCE

THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE. THE EXISTING SITE ACTIVITIES AND WEATHER CONDITIONS. THE CONTRACTOR SHALL SUBMIT THE FINAL CONSTRUCTION SCHEDULE TO THE PROJECT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO MOBILIZING TO THE SITE AND INITIATING CONSTRUCTION ACTIVITIES. THE CONSTRUCTION SEQUENCE IS ALSO SUBJECT TO REQUIREMENTS AS NOTED IN THE RESOURCE PROTECTION MEASURES.

- CONTACT THE OWNER TO SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE TREES TO BE REMOVED IN THE FIELD AS NECESSARY TO FACILITATE THE PRE-CONSTRUCTION MEETING.
- CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER REPRESENTATIVES), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.
- NOTIFY THE OWNER AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT. NOTIFY CALL BEFORE YOU DIG CONNECTICUT AT (800) 922-4455.
- CLEAR AND GRUB AS REQUIRED, TO INSTALL THE PERIMETER EROSION AND SEDIMENTATION CONTROL MEASURES AND, IF APPLICABLE, TREE PROTECTION.
- INSTALL CONSTRUCTION ENTRANCE.
- PERFORM THE REMAINING CLEARING AND GRUBBING AS NECESSARY. REMOVE CUT WOOD AND STUMPS. CHIP BRUSH AND STOCKPILE FOR FUTURE USE OR REMOVE OFF-SITE. REMOVE AND DISPOSE OF DEMOLITION DEBRIS OFF-SITE.
- TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.
- EXCAVATE AND ROUGH GRADE NEW ACCESS DRIVE.
- INSTALL ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AS DICTATED BY SITE CONDITIONS IN ORDER TO PROPERLY CONTROL AND TREAT RUNOFF.
- INSTALL UTILITY CONDUITS.
- EXCAVATE AND ROUGH GRADE EQUIPMENT COMPOUND.
- EXCAVATE FOR TOWER FOUNDATION & EQUIPMENT PADS.
- FINALIZE ACCESS ROAD GRADES.
- INSTALL PAVED DRIVEWAY APRON & GRAVEL SURFACE ON THE ACCESS DRIVEWAY.
- PREPARE SUBGRADE AND INSTALL FORMS, STEEL REINFORCING, & CONCRETE FOR TOWER FOUNDATION & EQUIPMENT PADS.
- INSTALL BURIED GROUND RINGS, GROUND RODS, GROUND LEADS, & UTILITY EQUIPMENT.
- BACKFILL TOWER FOUNDATION.
- ERECT MONOPOLE.
- INSTALL TELECOMMUNICATIONS EQUIPMENT ON TOWER & COMPOUND.
- INSTALL COMPOUND GRAVEL SURFACES.
- INSTALL FENCING.
- CONNECT GROUNDING LEADS & LIGHTNING PROTECTION.
- FINAL GRADE AROUND COMPOUND.
- INSTALL LANDSCAPING.
- LOAM & SEED DISTURBED AREAS OUTSIDE COMPOUND, AS REQUIRED.
- TEST ALL NEW EQUIPMENT.
- AFTER THE SITE IS STABILIZED AND WITH THE APPROVAL OF THE OWNER, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS.
- PERFORM FINAL PROJECT CLEANUP.

NOTE: CONSTRUCTION OF THE FACILITY WILL ONLY TAKE PLACE BETWEEN THE HOURS OF 8:00 AM AND 5:30 PM, MONDAY THROUGH SATURDAY



NOTE: SILT FENCE SHALL BE LAPPED ONLY WHEN NECESSARY PER THE MANUFACTURER RECOMMENDATIONS.

2 **SILT FENCE DETAIL**
EC-1 / SCALE : N.T.S.

CONSTRUCTION OPERATION AND MAINTENANCE PLAN - BY CONTRACTOR

E&S MEASURE	INSPECTION SCHEDULE
CONSTRUCTION ENTRANCE	DAILY
HAY BALES	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"
SILT FENCE/FILTER SOCKS	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"
SILT SACKS	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"
TOPSOIL/BORROW STOCKPILES	DAILY
WATER BARS	DAILY
TEMPORARY DIVERSION DITCHES	DAILY & WITHIN 24 HOURS OF RAINFALL > 0.2"
TEMPORARY SEDIMENT TRAPS/BASINS	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"

MAINTENANCE REQUIRED
PLACE ADDITIONAL STONE, EXTEND THE LENGTH OR REMOVE AND REPLACE THE STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT.
REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE BALE.
REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.
REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE SACK.
REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY.
REPAIR/RESHAPE AS NECESSARY. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE WATER BAR.
REPAIR/RESHAPE AS NECESSARY. REVIEW CONDITIONS IF REPETITIVE FAILURES OCCUR.
REMOVE SEDIMENT WHEN IT REACHES 1/2 OF THE MINIMUM REQUIRED WET STORAGE VOLUME.
REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.

ENVIRONMENTAL NOTES
RESOURCES PROTECTION MEASURES

BAT PROTECTION PROGRAM

THE PROPOSED FACILITY IS LOCATED WITHIN SENSITIVE HABITAT POTENTIALLY USED BY TRICOLORED BAT ("TCB"; PERIMYOTIS SUBFLAVUS), A FEDERALLY PROPOSED ENDANGERED AND STATE ENDANGERED SPECIES. IN ORDER TO PROTECT THIS BAT SPECIES AND PREVENT INCIDENTAL TAKE, PROTECTION MEASURES ARE PROPOSED DURING CONSTRUCTION OF THE FACILITY.

IT IS OF THE UTMOST IMPORTANCE THAT THE CONTRACTOR COMPLIES WITH THE REQUIREMENT FOR IMPLEMENTATION OF THESE PROTECTIVE MEASURES AND THE EDUCATION OF ITS EMPLOYEES AND SUBCONTRACTORS PERFORMING WORK ON THE PROJECT SITE.

ALL-POINTS TECHNOLOGY CORPORATION, P.C. (APT) WILL SERVE AS THE ENVIRONMENTAL MONITOR FOR THIS PROJECT TO ENSURE THAT THESE PROTECTION AND CONSERVATION MEASURES ARE IMPLEMENTED PROPERLY. APT WILL PROVIDE AN EDUCATION SESSION FOR THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES ON THE POTENTIAL PRESENCE OF TCB. THE CONTRACTOR SHALL CONTACT DEAN GUSTAFSON, SENIOR BIOLOGIST AT APT, AT LEAST 5 BUSINESS DAYS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES TO SCHEDULE A PRE-CONSTRUCTION MEETING. MR. GUSTAFSON CAN BE REACHED BY PHONE AT (860) 552-2033 OR VIA EMAIL AT DGUSTAFSON@ALLPOINTSTECH.COM.

THIS PROTECTION PROGRAM CONSISTS OF SEVERAL COMPONENTS: EDUCATION OF ALL CONTRACTORS AND SUB-CONTRACTORS PRIOR TO INITIATION OF WORK ON THE SITE; PROTECTIVE MEASURES; PERIODIC INSPECTION OF THE CONSTRUCTION PROJECT; AND, REPORTING. DETAILS OF THE TCB PROTECTION MEASURES TO BE IMPLEMENTED IN ASSOCIATION WITH CONSTRUCTION AND OPERATION OF THE FACILITY ARE PROVIDED BELOW.

1. CONTRACTOR EDUCATION

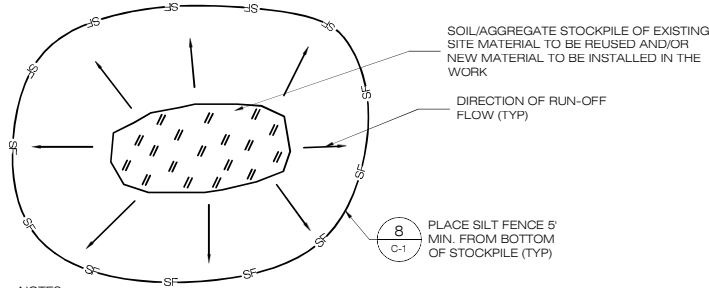
- PRIOR TO WORK ON SITE, THE CONTRACTOR SHALL ATTEND AN EDUCATIONAL SESSION AT THE PRE-CONSTRUCTION MEETING WITH APT. THIS ORIENTATION AND EDUCATIONAL SESSION WILL CONSIST OF AN INTRODUCTORY MEETING WITH APT TO EMPHASIZE THE ENVIRONMENTALLY SENSITIVE NATURE OF THE PROJECT, THE RARE SPECIES RESOURCES, AND THE REQUIREMENT TO DILIGENTLY FOLLOW THE PROTECTIVE MEASURES AS DESCRIBED IN SECTIONS BELOW.
- THE CONTRACTOR WILL BE PROVIDED WITH CELL PHONE AND EMAIL CONTACTS FOR APT PERSONNEL TO IMMEDIATELY REPORT ANY ENCOUNTERS WITH ANY RARE SPECIES. EDUCATIONAL POSTER MATERIALS WILL BE PROVIDED BY APT AND DISPLAYED ON THE JOB SITE TO MAINTAIN WORKER AWARENESS AS THE PROJECT PROGRESSES.
- IF ANY RARE SPECIES ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY CEASE ALL WORK, AVOID ANY DISTURBANCE TO THE SPECIES, AND CONTACT APT.

2. BAT HABITAT - TREE CLEARING RESTRICTION

- A TIME OF YEAR RESTRICTION (TOYR) FOR TREE CLEARING RESTRICTS TREE REMOVAL TO OCCUR ONLY BETWEEN AUGUST 16TH THROUGH MAY 31ST, DURING THE TCB'S INACTIVE SEASON, WHEN TCB WOULD LIKELY NOT BE PRESENT IN FORESTED HABITAT ON THE SUBJECT PROPERTY. DO NOT REMOVE TREES BETWEEN JUNE 1ST THROUGH AUGUST 15TH.

3. REPORTING

- A COMPLIANCE MONITORING REPORT (BRIEF NARRATIVE AND APPLICABLE PHOTOS) DOCUMENTING APT INSPECTION VERIFYING TOYR FOR TREE REMOVAL WAS ADHERED TO WILL BE SUBMITTED BY APT TO THE PERMITTEE FOR COMPLIANCE VERIFICATION. ANY OBSERVATIONS OF BATS WILL BE INCLUDED IN THE REPORTS.
- FOLLOWING COMPLETION OF THE CONSTRUCTION PROJECT, APT WILL PROVIDE A FINAL COMPLIANCE MONITORING REPORT TO THE PERMITTEE DOCUMENTING IMPLEMENTATION OF THIS PROTECTION PROGRAM AND ANY SPECIES OBSERVATIONS. THE PERMITTEE SHALL PROVIDE A COPY OF THE FINAL COMPLIANCE MONITORING REPORT TO THE CONNECTICUT SITING COUNCIL FOR COMPLIANCE VERIFICATION.
- ANY OBSERVATIONS OF RARE SPECIES WILL BE REPORTED TO DEEP BY APT ON THE APPROPRIATE SPECIAL ANIMAL REPORTING FORM, WITH PHOTO-DOCUMENTATION (IF POSSIBLE) AND SPECIFIC INFORMATION ON THE LOCATION AND DISPOSITION OF THE ANIMAL.



- NOTES:
- ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
 - SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.
 - RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.
 - STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
 - ANY SOIL IN STOCKPILES IN EXCESS OF SEVEN (7) DAYS SHALL BE SEEDED AND MULCHED OR COVERED.

4 **TEMPORARY STOCKPILE DETAIL**
EC-1 / SCALE : N.T.S.



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567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

Cellco Partnership d/b/a



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



15 COMMERCE WAY
SUITE B
NORTON, MA 02766



550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

D&M DOCUMENTS

NO	DATE	REVISION
0	09/12/25	FOR REVIEW: RCB
1	10/06/25	CARRIER REVISIONS: RCB
2	10/29/25	ADD TOWER INFO: RCB
3	11/20/25	FINAL: RCB
4	12/02/25	AT&T EQUIP REVISIONS: RCB
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: BOROUGH OF NAUGATUCK
ADDRESS: 229 CHURCH STREET
NAUGATUCK, CT 06770

CT1239 CONRAD ST

SITE: 161 CONRAD STREET
ADDRESS: NAUGATUCK, CT 06770

APT FILING NUMBER: CT752130

DRAWN BY: ELZ

DATE: 09/12/25 CHECKED BY: RCB

VZW MDG LOC. CODE: 616755202

VZW PSLC: 470709

VZW FUZE ID: 17453771






SHEET TITLE:

EROSION CONTROL,
PLANTING &
ENVIRONMENTAL
NOTES & DETAILS

SHEET NUMBER:



[illegible]

 <p>8916 77th TERRACE EAST, SUITE 103 LAKEWOOD RANCH, FL 34202</p>																									
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<p>SHEET NUMBER:</p> <p>N-1</p>																									
																									

Michael F. Plahovinsak, P.E.

18301 State Route 161, Plain City, Ohio 43064

(614) 398-6250 - mike@mfpeng.com

November 25, 2025

Tarpon Towers

Re: Proposed 150-ft Monopole
Located in New Haven Co., CT: CT1239 Conrad St.
MFP Project #: 23525-716 / TAPP Project Number: TP-25179

I understand that there may be some concern on the part of local building officials regarding the potential for failure of the proposed communication monopole. Communication structures are designed in accordance with the Telecommunications Industry Association TIA-222-H, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures". This Structure is to be fabricated by TransAmerican Power Products

I have designed this monopole to withstand a 3-sec. gusted wind speed of 130 mph as recommended by TIA-222-H for New Haven Co., CT. The design also conforms to the requirements of the 2022 Connecticut Building Code.

This monopole has been designed to accommodate a theoretical fall radius. The upper 75' of the pole has been designed to meet the wind loads of the design, however, the lower portion of the pole has been designed with a minimum 10% extra capacity. Assuming the pole has been fabricated according to my design, and well maintained, in the event of a failure due to extreme wind and comparable appurtenance antenna load (winds in excess of the design wind load), it would yield/buckle at the 75' elevation. The yielded section is designed to swing down and rest on the ground, resulting in an approximate 0-ft fall radius. The pole shafts are designed to buckle and bend, not rupture and disconnect. The designed 0-ft fall radius is less than the required 58-ft fall radius.

The structure has been designed with all of the applicable factors as required by the code. A properly designed, constructed and maintained pole has never collapsed; monopoles are safe structures with a long history of reliable operation.

I hope this review of the monopole design has given you a greater degree of comfort regarding the design capacity inherent in pole structures. If you have any additional questions please call me at 614-398-6250 or email mike@mfpeng.com.

Sincerely,

Michael F. Plahovinsak, P.E.



Michael F. Plahovinsak, P.E.
Sole Proprietor - Independent Engineer
P.E. Licensed in 48 Jurisdictions

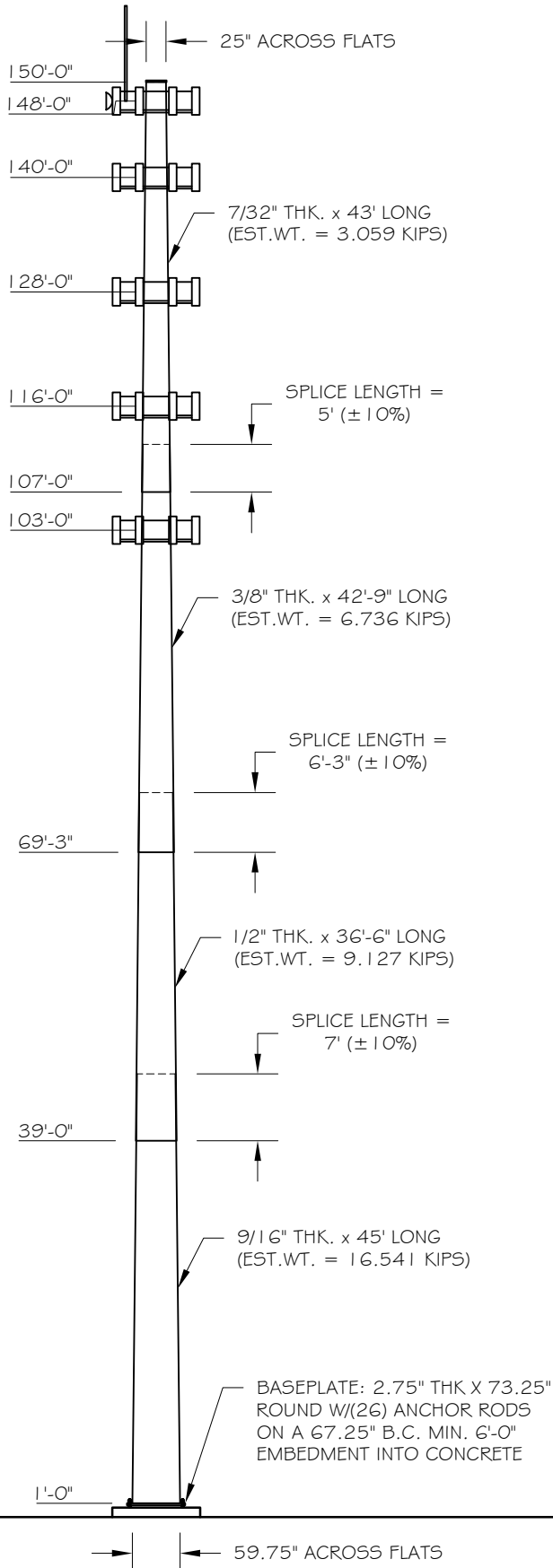




TAPP

2427 Kelly Lane
Houston, Texas 77066
281-444-8277

QUALITY STEEL POLES. DELIVERED.



Page 1 of 3	Job Number: 23525-716
Eng: MFP	Customer Ref: TP-25179
	Date: 10/27/2025
Structure: 150-FT MONOPOLE	
Site: CT 1239 CONRAD ST.	
Location: NEW HAVEN CO., CT / 41°29'53", -73°4'12"	
Owner: TARPON TOWERS	
Revision No.: Revision Date:	

DESIGN			
Building Code: 2022 CONNECTICUT BUILDING CODE			
Design Standard: TIA-222-H			
Wind Speed Load Cases: ASCE-7-16 WIND SPEED			
Load Case #1: 130 MPH Design Wind Speed			
Load Case #2: 50 MPH Wind with 1" Ice Accumulation			
Load Case #3: 60 MPH Service Wind Speed			
Structure Class Risk Category III	Exposure Cat. C	Topography Cat. I	Crest Height

STRUCTURE MEETS THE MINIMUM REQUIREMENTS OF TIA-222-I

EQUIPMENT LIST	
Elev.	Description
153	(2) CC807 + (1) D57C09PU-N
148	(1) TTA + (1) 3-FT DISH + 12-FT PLATFORM WITH HANDRAIL
140	ANTENNAS + MOUNTING (EPA 42,000 IN2)
140	GENERIC ANTENNA MOUNT
128	ANTENNAS + MOUNTING (EPA 30,000 IN2)
128	GENERIC ANTENNA MOUNT
116	ANTENNAS + MOUNTING (EPA 30,000 IN2)
116	GENERIC ANTENNA MOUNT
103	(3) FFVV-G5B-R3 + (6) RRU + (1) RAYCAP
103	8-FT PLATFORM WITH HANDRAIL

ANTENNA FEED LINES ROUTED ON THE INSIDE OF THE POLE
POLE DESIGNED FOR A MAX 0-FT FALL RADIUS

STRUCTURE PROPERTIES					
Cross-Section: 18-Sided			Taper: 0.2479 in/ft		
Shaft Steel: ASTM A572 GR 65			Baseplate Steel: ASTM A572 GR 50		
Anchor Rods: 2.25 in. A615 GR. 75 X 7'-0"					
Sect.	Length (ft)	Thickness (in)	Splice (ft)	Top Dia. (in)	Bot Dia. (in)
1	43.00	0.2188	5.00	25.00	35.66
2	42.75	0.3750	6.25	33.98	44.58
3	36.50	0.5000	7.00	42.28	51.33
4	45.00	0.5625	0	48.59	59.75



MICHAEL F. PLAHOVINSK, P.E. #25849
Sole Proprietor - Independent Engineer
18301 S.R. 161, Plain City, OH 43064
614-398-6250 / mike@mfpeng.com

BASE REACTIONS FOR FOUNDATION DESIGN

Moment: 8869 ft-kip

Shear: 75 kip

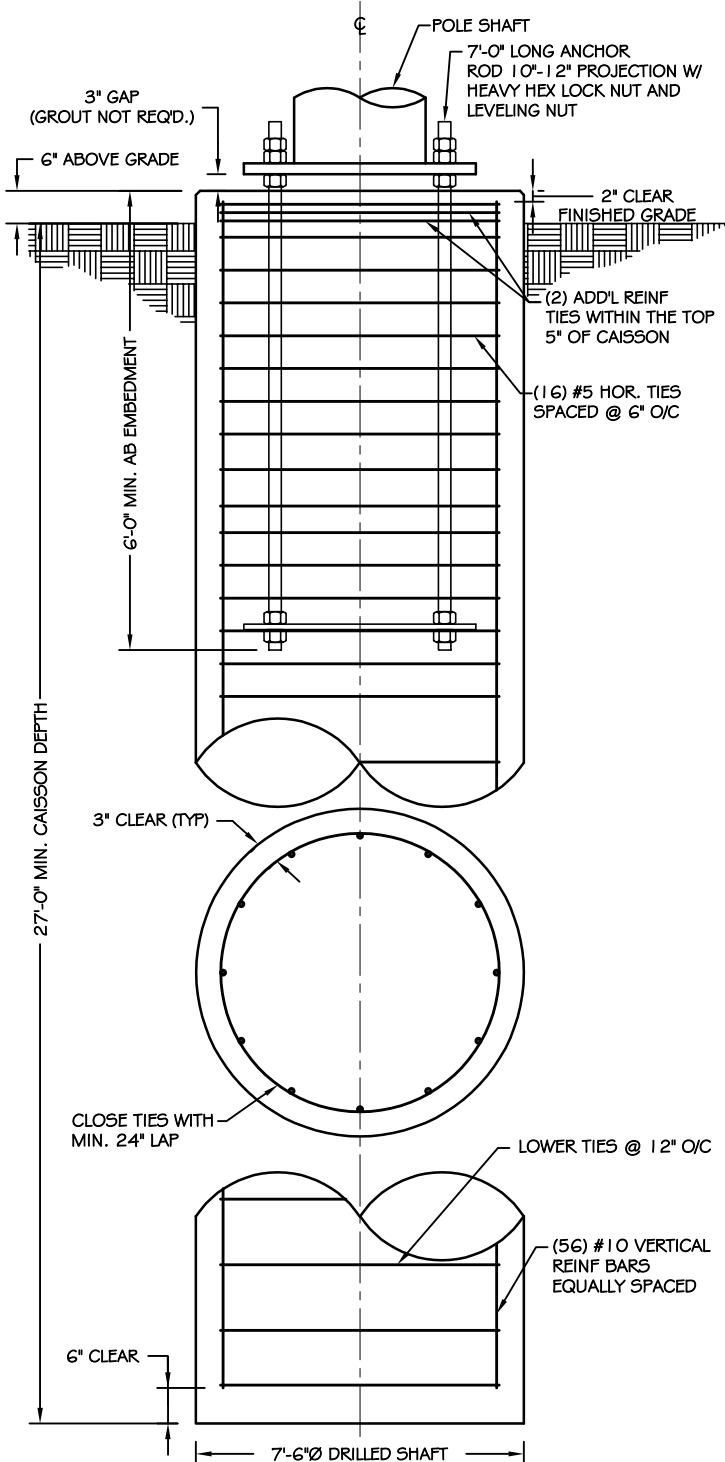
Axial: 77 kip



TAPP

2427 Kelly Lane
Houston, Texas 77066
281-444-8277

QUALITY STEEL POLES. DELIVERED.



CAISSON FOUNDATION

NOT TO SCALE

Page 2 of 3	Job Number: 23525-716
Eng: MFP	Customer Ref: TP-25179
	Date: 10/27/2025
Structure: 150-FT MONOPOLE	
Site: CT 1239 CONRAD ST.	
Location: NEW HAVEN CO., CT / 41°29'53", -73°4'12"	
Owner: TARPON TOWERS	
Revision No.: Revision Date:	

FOUNDATION NOTES:

- ALL FOUNDATION CONCRETE SHALL USE TYPE II CEMENT AND ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS. CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45. IN AREAS OF POTENTIAL FREEZING, CONCRETE SHALL BE AIR ENTRAINED 6% ($\pm 1.5\%$). ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318, "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 VERTICAL BARS SHALL BE GRADE 60, AND TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. THE PLACEMENT OF ALL REINFORCEMENT SHALL CONFORM TO ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.
- CAISSON FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS", LATEST EDITION.
- THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS TO SUPPORT THE EXCAVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND SHALL CONSULT THE GEOTECHNICAL ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.
- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT BY:
ENGINEER: WELTI GEOTECHNICAL
REPORT NO.: N/A (DATED 10/16/25)
- ESTIMATED CONCRETE VOLUME = 45 CUBIC YARDS.
- THE FOUNDATION HAS BEEN DESIGNED TO RESIST THE FOLLOWING FACTORED LOADS:
MOMENT: 8869 FT*KIPS
SHEAR: 75 KIPS
AXIAL: 77 KIPS
- GEOTECHNICAL REPORT INDICATES GROUNDWATER MAY BE ENCOUNTERED AT 13'-6" BELOW GRADE.





TAPP

QUALITY STEEL POLES. DELIVERED.

2427 Kelly Lane
Houston, Texas 77066
281-444-8277

Page 3 of 3	Job Number: 23525-716
Eng: MFP	Customer Ref: TP-25179
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Structure: 150-FT MONOPOLE	
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Location: NEW HAVEN CO., CT / 41°29'53", -73°4'12"	
Owner: TARPON TOWERS	
Revision No.: Revision Date:	

FOUNDATION NOTES:

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2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 VERTICAL BARS SHALL BE GRADE 60, AND TIES OR STIRRUPS SHALL BE A MINIMUM OF GRADE 40. THE PLACEMENT OF ALL REINFORCEMENT SHALL CONFORM TO ACI 315, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.

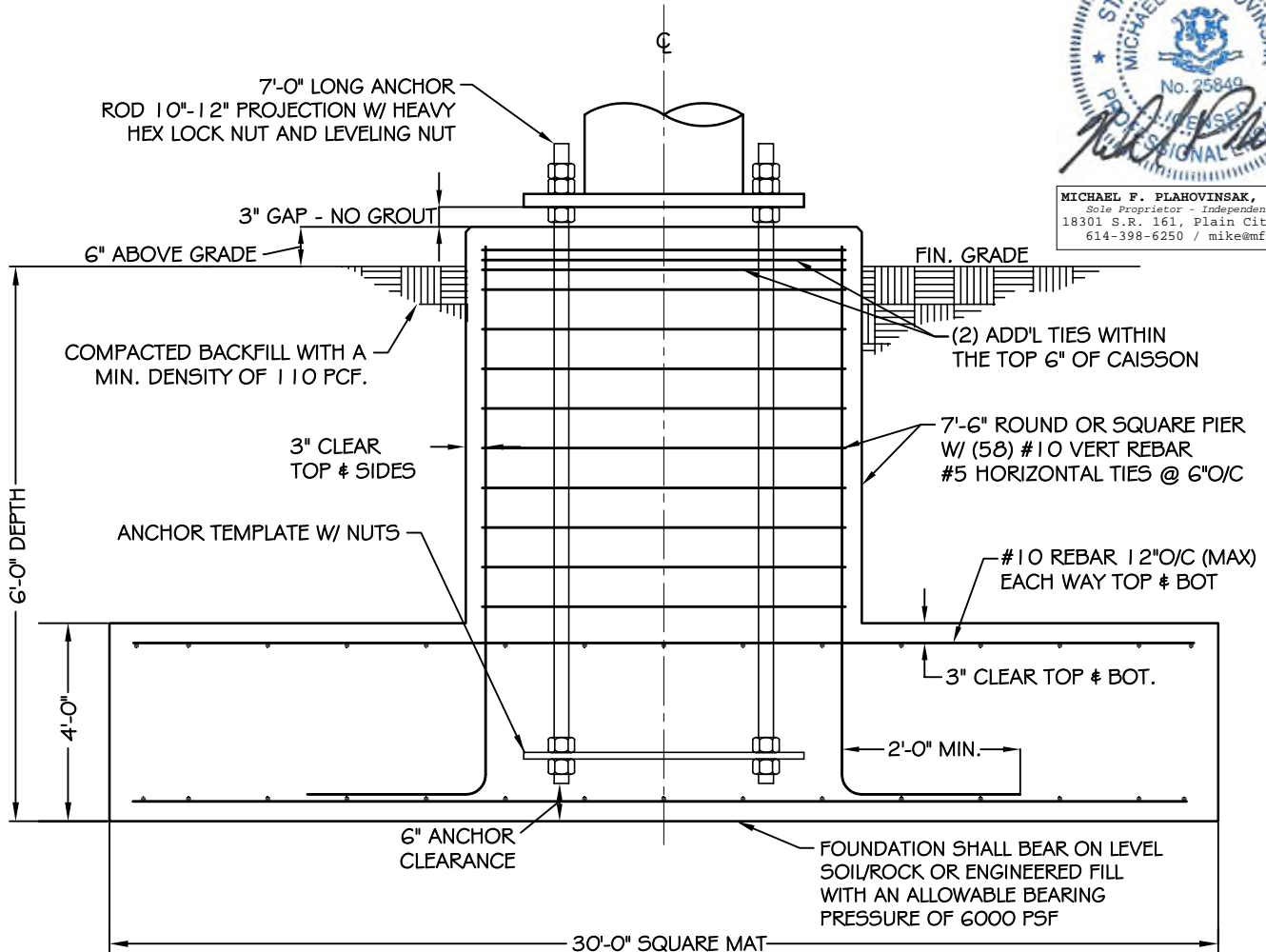
3. THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS TO SUPPORT THE EXCAVATION DURING CONSTRUCTION. THE CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND SHALL CONSULT THE GEOTECHNICAL ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.

4. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT BY:
ENGINEER: WELTI GEOTECHNICAL
REPORT NO.: N/A (DATED 10/16/25)

5. ESTIMATED CONCRETE VOLUME = 139 CUBIC YARDS.

6. THE FOUNDATION HAS BEEN DESIGNED TO RESIST THE FOLLOWING FACTORED LOADS:

MOMENT: 8869 FT*KIPS
SHEAR: 75 KIPS
AXIAL: 77 KIPS



SPREAD FOOTING

NOT TO SCALE

tnxTower Michael Plahovinsak, P.E. 18301 State Route 161 Plain City, OH 43064 Phone: 614-398-6250 FAX: mike@mfpeng.com	Job	150-ft Monopole - MFP #23525-716 r1	Page	1 of 8
	Project	CT1239 Conrad St.	Date	18:09:51 10/27/25
	Client	TP-25179	Designed by	JC

Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower base elevation above sea level: 515.00 ft.

Basic wind speed of 130 mph.

Risk Category III.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.0000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.00-107.00	43.00	5.00	18	25.0000	35.6598	0.2188	0.8750	A572-65 (65 ksi)
L2	107.00-69.25	42.75	6.25	18	33.9828	44.5806	0.3750	1.5000	A572-65 (65 ksi)
L3	69.25-39.00	36.50	7.00	18	42.2812	51.3297	0.5000	2.0000	A572-65 (65 ksi)
L4	39.00-1.00	45.00		18	48.5944	59.7500	0.5625	2.2500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	25.3519	17.2059	1334.9410	8.7973	12.7000	105.1135	2671.6385	8.6046	4.0150	18.354
	36.1762	24.6072	3904.9253	12.5816	18.1152	215.5609	7814.9887	12.3059	5.8911	26.931
L2	35.7078	40.0017	5708.1578	11.9308	17.2633	330.6535	11423.8265	20.0046	5.3210	14.189
	45.2105	52.6158	12989.9879	15.6930	22.6470	573.5862	25997.0684	26.3129	7.1862	19.163
L3	44.4297	66.3068	14623.7470	14.8323	21.4789	680.8432	29266.7362	33.1597	6.5615	13.123
	52.0444	80.6667	26330.9765	18.0445	26.0755	1009.7981	52696.5999	40.3410	8.1540	16.308
L4	51.0193	85.7549	24995.1432	17.0513	24.6859	1012.5253	50023.1756	42.8856	7.5626	13.445
	60.5850	105.6719	46768.8712	21.0116	30.3530	1540.8319	93599.2822	52.8460	9.5260	16.935

tnxTower Michael Plahovinsak, P.E. 18301 State Route 161 Plain City, OH 43064 Phone: 614-398-6250 FAX: mike@mfpeng.com	Job	150-ft Monopole - MFP #23525-716 r1	Page	2 of 8
	Project	CT1239 Conrad St.	Date	18:09:51 10/27/25
	Client	TP-25179	Designed by	JC

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L1 150.00-107.00				1	1	1			
L2 107.00-69.25				1	1	1			
L3 69.25-39.00				1	1	1			
L4 39.00-1.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_A A_A$ ft ² /ft	Weight plf
Safety Climb & Step Bolts Exposed	C	No	Yes	CaAa (Out Of Face)	150.00 - 1.00	1	No Ice 1/2" Ice 1" Ice	0.06 0.14 0.24	0.09 0.63 1.77
** 1/2"	C	No	Yes	Inside Pole	148.00 - 1.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.15 0.15 0.15
1 5/8"	C	No	Yes	Inside Pole	148.00 - 1.00	2	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.92 0.92 0.92
1.3"	C	No	Yes	Inside Pole	148.00 - 1.00	1	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.66 0.66 0.66
** 1 5/8"	C	No	Yes	Inside Pole	140.00 - 1.00	18	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.92 0.92 0.92
1 5/8"	C	No	Yes	Inside Pole	128.00 - 1.00	18	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.92 0.92 0.92
1 5/8"	C	No	Yes	Inside Pole	116.00 - 1.00	18	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.92 0.92 0.92
1 5/8"	C	No	Yes	Inside Pole	103.00 - 1.00	18	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.92 0.92 0.92

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight K
L1	150.00-107.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	2.365	1.15
L2	107.00-69.25	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	2.076	2.53
L3	69.25-39.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	1.664	2.08

tnxTower Michael Plahovinsak, P.E. 18301 State Route 161 Plain City, OH 43064 Phone: 614-398-6250 FAX: mike@mfpeng.com	Job	150-ft Monopole - MFP #23525-716 r1	Page	3 of 8
	Project	CT1239 Conrad St.	Date	18:09:51 10/27/25
	Client	TP-25179	Designed by	JC

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L4	39.00-1.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	2.090	2.61

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	150.00-107.00	A	1.316	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	12.933	1.28
L2	107.00-69.25	A	1.268	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	11.354	2.64
L3	69.25-39.00	A	1.208	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	8.805	2.16
L4	39.00-1.00	A	1.094	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	10.605	2.71

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K	
3-Wire De-Tuning Equipment	C	None		0.0000	150.00 - 1.00	No Ice 1/2" Ice 1" Ice	20.00 25.00 30.00	20.00 25.00 30.00	0.20 0.25 0.30
**									
RFI CC807 10' Whip	A	From Face	3.00 0.00 0.00	0.0000	153.00	No Ice 1/2" Ice 1" Ice	3.10 4.17 5.25	3.10 4.17 5.25	3.00 3.02 3.05
RFI CC807 10' Whip	B	From Face	3.00 0.00 0.00	0.0000	153.00	No Ice 1/2" Ice 1" Ice	3.10 4.17 5.25	3.10 4.17 5.25	3.00 3.02 3.05
DBSpectra DS7C09PU-N Omni	C	From Face	3.00 0.00 0.00	0.0000	153.00	No Ice 1/2" Ice 1" Ice	4.34 5.82 7.31	4.34 5.82 7.31	0.04 0.07 0.11
TTA	B	From Face	3.00 0.00 0.00	0.0000	148.00	No Ice 1/2" Ice 1" Ice	1.50 2.00 3.00	1.50 2.00 3.00	0.05 0.07 0.07
12' Platform w/ Handrail	C	None		0.0000	148.00	No Ice 1/2" Ice 1" Ice	30.00 35.00 40.00	30.00 35.00 40.00	1.80 2.60 3.40
**									
EPA 42,000 in2	C	None		0.0000	140.00	No Ice 1/2" Ice 1" Ice	292.00 300.00 308.00	292.00 300.00 308.00	4.00 6.00 8.00
EPA 30,000 in2	C	None		0.0000	128.00	No Ice 1/2" Ice 1" Ice	208.33 225.00 241.67	208.33 225.00 241.67	4.00 5.00 6.00

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
EPA 30,000 in2	C	None		0.0000	116.00	No Ice	208.33	208.33	4.00
						1/2" Ice	225.00	225.00	5.00
						1" Ice	241.67	241.67	6.00
**									
Andrew FFVV-65B-R3 w/ mount pipe	A	From Face	3.00 0.00 0.00	0.0000	103.00	No Ice	15.31	8.02	0.12
						1/2" Ice	15.84	8.98	0.23
						1" Ice	16.37	9.82	0.35
Andrew FFVV-65B-R3 w/ mount pipe	B	From Face	3.00 0.00 0.00	0.0000	103.00	No Ice	15.31	8.02	0.12
						1/2" Ice	15.84	8.98	0.23
						1" Ice	16.37	9.82	0.35
Andrew FFVV-65B-R3 w/ mount pipe	C	From Face	3.00 0.00 0.00	0.0000	103.00	No Ice	15.31	8.02	0.12
						1/2" Ice	15.84	8.98	0.23
						1" Ice	16.37	9.82	0.35
Raycap RDIDC-9181-PF-48	A	From Face	2.00 0.00 0.00	0.0000	103.00	No Ice	1.87	1.07	0.10
						1/2" Ice	2.04	1.20	0.12
						1" Ice	2.21	1.35	0.14
(3) Samsung RT4450	B	From Face	2.00 0.00 0.00	0.0000	103.00	No Ice	0.30	0.30	0.02
						1/2" Ice	0.37	0.37	0.02
						1" Ice	0.45	0.45	0.03
(3) Samsung RT4451	C	From Face	2.00 0.00 0.00	0.0000	103.00	No Ice	0.30	0.30	0.02
						1/2" Ice	0.37	0.37	0.02
						1" Ice	0.45	0.45	0.03
8' Platform w/ Handrail	C	None		0.0000	103.00	No Ice	30.00	30.00	1.80
						1/2" Ice	35.00	35.00	2.60
						1" Ice	40.00	40.00	3.40
*									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K
3 ft standard	A	Paraboloid w/o Radome	From Face	1.00 0.00 0.00	0.0000		148.00	3.00	No Ice 1/2" Ice 1" Ice	7.06 7.47 7.88
										0.10 0.18 0.25

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 90 deg - No Ice
5	0.9 Dead+1.0 Wind 90 deg - No Ice
6	1.2 Dead+1.0 Wind 180 deg - No Ice
7	0.9 Dead+1.0 Wind 180 deg - No Ice
8	1.2 Dead+1.0 Ice+1.0 Temp
9	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
10	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
11	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp

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Comb. No.	Description
12	Dead+Wind 0 deg - Service
13	Dead+Wind 90 deg - Service
14	Dead+Wind 180 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	150 - 107	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-43.70	0.25	15.67
			Max. Mx	4	-22.94	-1015.35	2.12
			Max. My	2	-22.99	2.74	1019.06
			Max. Vy	4	52.23	-1015.35	2.12
			Max. Vx	6	52.09	-21.33	-995.48
			Max. Torque	4			-1.38
L2	107 - 69.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-62.42	0.45	16.45
			Max. Mx	4	-37.38	-3105.22	-10.88
			Max. My	2	-37.41	5.70	3097.17
			Max. Vy	4	60.21	-3105.22	-10.88
			Max. Vx	6	60.04	-43.09	-3079.59
			Max. Torque	4			1.91
L3	69.25 - 39	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-77.56	0.46	16.71
			Max. Mx	4	-51.40	-4933.88	-21.39
			Max. My	2	-51.43	7.93	4915.94
			Max. Vy	4	63.58	-4933.88	-21.39
			Max. Vx	6	63.42	-60.55	-4903.56
			Max. Torque	4			1.90
L4	39 - 1	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	8	-105.29	0.46	16.62
			Max. Mx	4	-77.40	-7893.31	-37.24
			Max. My	2	-77.40	11.25	7860.46
			Max. Vy	4	67.49	-7893.31	-37.24
			Max. Vx	6	67.34	-86.48	-7856.17
			Max. Torque	4			1.89

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 107	23.994	12	1.4878	0.0002
L2	112 - 69.25	13.011	12	1.1756	0.0001
L3	75.5 - 39	5.598	12	0.7200	0.0000
L4	46 - 1	2.028	12	0.4116	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
153.00	RFI CC807 10' Whip	12	23.994	1.4878	0.0008	31656
150.00	3-Wire De-Tuning Equipment	12	23.994	1.4878	0.0008	31656

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<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load</i>	<i>Deflection</i>	<i>Tilt</i>	<i>Twist</i>	<i>Radius of Curvature</i>
<i>ft</i>		<i>Comb.</i>	<i>in</i>	<i>°</i>	<i>°</i>	<i>ft</i>
148.00	3 ft standard	12	23.380	1.4740	0.0008	31656
144.86	3-Wire De-Tuning Equipment	12	22.417	1.4522	0.0007	30806
140.00	EPA 42,000 in2	12	20.934	1.4178	0.0006	15828
139.72	3-Wire De-Tuning Equipment	12	20.850	1.4158	0.0006	15403
134.59	3-Wire De-Tuning Equipment	12	19.304	1.3780	0.0006	10268
129.45	3-Wire De-Tuning Equipment	12	17.789	1.3380	0.0005	7701
128.00	EPA 30,000 in2	12	17.368	1.3262	0.0005	7194
124.31	3-Wire De-Tuning Equipment	12	16.314	1.2950	0.0005	6160
119.17	3-Wire De-Tuning Equipment	12	14.891	1.2483	0.0005	5133
116.00	EPA 30,000 in2	12	14.043	1.2173	0.0005	4655
114.03	3-Wire De-Tuning Equipment	12	13.530	1.1972	0.0005	4425
108.90	3-Wire De-Tuning Equipment	12	12.241	1.1410	0.0005	4236
103.76	3-Wire De-Tuning Equipment	12	11.026	1.0801	0.0005	4343
103.00	Andrew FFVV-65B-R3 w/ mount pipe	12	10.853	1.0708	0.0005	4361
98.62	3-Wire De-Tuning Equipment	12	9.885	1.0159	0.0005	4463
93.48	3-Wire De-Tuning Equipment	12	8.814	0.9496	0.0004	4590
88.34	3-Wire De-Tuning Equipment	12	7.812	0.8825	0.0004	4724
83.21	3-Wire De-Tuning Equipment	12	6.878	0.8160	0.0003	4867
78.07	3-Wire De-Tuning Equipment	12	6.008	0.7513	0.0003	5013
72.93	3-Wire De-Tuning Equipment	12	5.202	0.6897	0.0003	5033
67.79	3-Wire De-Tuning Equipment	12	4.459	0.6316	0.0002	4962
62.66	3-Wire De-Tuning Equipment	12	3.779	0.5765	0.0002	4883
57.52	3-Wire De-Tuning Equipment	12	3.164	0.5238	0.0002	4802
52.38	3-Wire De-Tuning Equipment	12	2.616	0.4729	0.0002	4724
47.24	3-Wire De-Tuning Equipment	12	2.134	0.4234	0.0001	4690
42.10	3-Wire De-Tuning Equipment	12	1.720	0.3747	0.0001	5070
36.97	3-Wire De-Tuning Equipment	12	1.368	0.3266	0.0001	5793
31.83	3-Wire De-Tuning Equipment	12	1.071	0.2790	0.0001	6758
26.69	3-Wire De-Tuning Equipment	12	0.821	0.2318	0.0001	8110
21.55	3-Wire De-Tuning Equipment	12	0.610	0.1850	0.0001	10137
16.41	3-Wire De-Tuning Equipment	12	0.430	0.1385	0.0000	13516
11.28	3-Wire De-Tuning Equipment	12	0.274	0.0922	0.0000	20274
6.14	3-Wire De-Tuning Equipment	12	0.133	0.0461	0.0000	40548
1.00	3-Wire De-Tuning Equipment	0	0.000	0.0000	0.0000	41667

Maximum Tower Deflections - Design Wind

<i>Section No.</i>	<i>Elevation</i>	<i>Horz. Deflection</i>	<i>Gov. Load</i>	<i>Tilt</i>	<i>Twist</i>
	<i>ft</i>	<i>in</i>	<i>Comb.</i>	<i>°</i>	<i>°</i>
L1	150 - 107	124.226	4	7.5039	0.0011
L2	112 - 69.25	68.043	4	6.1193	0.0004
L3	75.5 - 39	29.374	4	3.7740	0.0002
L4	46 - 1	10.654	4	2.1619	0.0001

Critical Deflections and Radius of Curvature - Design Wind

<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load</i>	<i>Deflection</i>	<i>Tilt</i>	<i>Twist</i>	<i>Radius of Curvature</i>
<i>ft</i>		<i>Comb.</i>	<i>in</i>	<i>°</i>	<i>°</i>	<i>ft</i>
153.00	RFI CC807 10' Whip	4	124.226	7.5039	0.0023	6686
150.00	3-Wire De-Tuning Equipment	4	124.226	7.5039	0.0023	6686
148.00	3 ft standard	4	121.095	7.4465	0.0024	6686
144.86	3-Wire De-Tuning Equipment	4	116.188	7.3558	0.0026	6506
140.00	EPA 42,000 in2	4	108.627	7.2115	0.0029	3341

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Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
ft						
139.72	3-Wire De-Tuning Equipment	4	108.200	7.2031	0.0030	3252
134.59	3-Wire De-Tuning Equipment	4	100.310	7.0411	0.0033	2166
129.45	3-Wire De-Tuning Equipment	4	92.568	6.8654	0.0035	1623
128.00	EPA 30,000 in2	4	90.419	6.8127	0.0036	1515
124.31	3-Wire De-Tuning Equipment	4	85.023	6.6753	0.0037	1297
119.17	3-Wire De-Tuning Equipment	4	77.725	6.4639	0.0038	1079
116.00	EPA 30,000 in2	4	73.363	6.3192	0.0038	977
114.03	3-Wire De-Tuning Equipment	4	70.723	6.2235	0.0038	928
108.90	3-Wire De-Tuning Equipment	4	64.064	5.9498	0.0037	882
103.76	3-Wire De-Tuning Equipment	4	57.767	5.6454	0.0035	894
103.00	Andrew FFVV-65B-R3 w/ mount pipe	4	56.867	5.5983	0.0035	896
98.62	3-Wire De-Tuning Equipment	4	51.826	5.3180	0.0033	907
93.48	3-Wire De-Tuning Equipment	4	46.238	4.9757	0.0030	921
88.34	3-Wire De-Tuning Equipment	4	40.995	4.6262	0.0026	936
83.21	3-Wire De-Tuning Equipment	4	36.095	4.2777	0.0022	950
78.07	3-Wire De-Tuning Equipment	4	31.531	3.9380	0.0019	962
72.93	3-Wire De-Tuning Equipment	4	27.299	3.6149	0.0016	961
67.79	3-Wire De-Tuning Equipment	4	23.398	3.3107	0.0014	947
62.66	3-Wire De-Tuning Equipment	4	19.834	3.0226	0.0012	932
57.52	3-Wire De-Tuning Equipment	4	16.612	2.7475	0.0011	918
52.38	3-Wire De-Tuning Equipment	4	13.736	2.4822	0.0010	904
47.24	3-Wire De-Tuning Equipment	4	11.211	2.2237	0.0009	898
42.10	3-Wire De-Tuning Equipment	4	9.040	1.9691	0.0007	971
36.97	3-Wire De-Tuning Equipment	4	7.195	1.7171	0.0007	1109
31.83	3-Wire De-Tuning Equipment	4	5.636	1.4675	0.0006	1294
26.69	3-Wire De-Tuning Equipment	4	4.322	1.2199	0.0005	1552
21.55	3-Wire De-Tuning Equipment	4	3.213	0.9739	0.0004	1940
16.41	3-Wire De-Tuning Equipment	4	2.267	0.7293	0.0003	2586
11.28	3-Wire De-Tuning Equipment	4	1.443	0.4856	0.0002	3879
6.14	3-Wire De-Tuning Equipment	4	0.701	0.2426	0.0001	7758
1.00	3-Wire De-Tuning Equipment	0	0.000	0.0000	0.0000	7972

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KL/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
L1	150 - 107 (1)	TP35.6598x25x0.2188	43.00	0.00	0.0	23.7466	-22.99	1389.17	0.017
L2	107 - 69.25 (2)	TP44.5806x33.9828x0.375	42.75	0.00	0.0	50.7716	-37.38	2970.14	0.013
L3	69.25 - 39 (3)	TP51.3297x42.2813x0.5	36.50	0.00	0.0	77.9128	-51.40	4557.90	0.011
L4	39 - 1 (4)	TP59.75x48.5944x0.5625	45.00	0.00	0.0	105.672	-77.40	6181.80	0.013
0									

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	150 - 107 (1)	TP35.6598x25x0.2188	1019.07	1067.21	0.955	0.00	1067.21	0.000
L2	107 - 69.25 (2)	TP44.5806x33.9828x0.375	3105.23	3192.17	0.973	0.00	3192.17	0.000
L3	69.25 - 39 (3)	TP51.3297x42.2813x0.5	4933.93	5830.32	0.846	0.00	5830.32	0.000
L4	39 - 1 (4)	TP59.75x48.5944x0.5625	7893.40	9416.25	0.838	0.00	9416.25	0.000

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Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	150 - 107 (1)	TP35.6598x25x0.2188	51.93	416.75	0.125	0.06	1248.26	0.000
L2	107 - 69.25 (2)	TP44.5806x33.9828x0.375	60.21	891.04	0.068	1.90	3328.59	0.001
L3	69.25 - 39 (3)	TP51.3297x42.2813x0.5	63.58	1367.37	0.046	1.89	5878.92	0.000
L4	39 - 1 (4)	TP59.75x48.5944x0.5625	67.49	1854.54	0.036	1.89	9612.75	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	150 - 107 (1)	0.017	0.955	0.000	0.125	0.000	0.987	1.000	✓
L2	107 - 69.25 (2)	0.013	0.973	0.000	0.068	0.001	0.990	1.000	✓
L3	69.25 - 39 (3)	0.011	0.846	0.000	0.046	0.000	0.860	1.000	✓
L4	39 - 1 (4)	0.013	0.838	0.000	0.036	0.000	0.852	1.000	✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 107	Pole	TP35.6598x25x0.2188	1	-22.99	1389.17	98.7	Pass
L2	107 - 69.25	Pole	TP44.5806x33.9828x0.375	2	-37.38	2970.14	99.0	Pass
L3	69.25 - 39	Pole	TP51.3297x42.2813x0.5	3	-51.40	4557.90	86.0	Pass
L4	39 - 1	Pole	TP59.75x48.5944x0.5625	4	-77.40	6181.80	85.2	Pass
							Summary	
							Pole (L2)	Pass
							RATING = 99.0	Pass

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Anchor Rod and Base Plate Calculation

TIA-222-H

Factored Base Reactions:	Pole Shape:	Anchor Rods:	Base Plate:
Moment: 7893 ft-kips	18-Sided	(26) 2.25 in. A615 GR. 75	2.75 in. x 73.25 in. Round
Shear: 67 kips	Pole Dia. (D_f):	Anchor Rods Evenly Spaced	$f_y = 50$ ksi
Axial: 77 kips	59.75 in	On a 67.25 in Bolt Circle	

Anchor Rod Calculation According to TIA-222-H

$$\phi_t, \phi_v = 0.75 \text{ TIA 4.9.6}$$

$$I_{\text{bolts}} = 14698.33 \text{ in}^2 \text{ Moment of Inertia}$$

$$P_u = 214 \text{ kips Tension Force}$$

$$V_u = 2.6 \text{ kips Shear Force}$$

$$R_{nt} = 325.00 \text{ kips Nominal Tensile Strength}$$

$$R_{nv} = 198.80 \text{ kips (0.5 x } f_u \text{ x } a_g)$$

$$\text{Stress Rating} = 87.7\% \text{ Satisfies TIA-H 4.9.9}$$

Base Plate Calculation According to TIA-222-H

$$\phi = 0.90 \text{ TIA 4.7}$$

$$M_{PL} = 508.1 \text{ in-kip Plate Moment}$$

$$L = 7.2 \text{ in Section Length}$$

$$Z = 13.6 \text{ Plastic Section Modulus}$$

$$M_P = 682.5 \text{ in-kip Plastic Moment}$$

$$\phi M_n = 614.2 \text{ in-kip Factored Resistance}$$

Calculated Moment vs Factored Resistance

508.07 in-kip \leq 614 in-kip

$$\text{Stress Rating} = 82.7\%$$

Anchor Rods Are Adequate	87.7% <input checked="" type="checkbox"/>
Base Plate is Adequate	82.7% <input checked="" type="checkbox"/>

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Caisson Calculation

According to TIA-222-H

- Foundation overturning resistance calculated with PLS Caisson, for Brom's method for rigid piles. Soil layers modeled after recommendations from the geotechnical report.
- Cohesion strength for the upper 22.5 ft has been reduced by 50%
- An additional load factor of 1.3 has been applied to the reinforcement design
- Foundation Loads Factored in Accordance with TIA-222-H
- Design water table = 13.5 ft below grade

*** PIER PROPERTIES		CONCRETE STRENGTH (ksi) = 4.50				STEEL STRENGTH (ksi) = 60.00			
		DIAMETER (ft) = 7.500		DISTANCE FROM TOP OF PIER TO GROUND LEVEL (ft) = 0.50					
*** SOIL PROPERTIES		LAYER	TYPE	THICKNESS	DEPTH AT TOP OF LAYER	DENSITY	CU	KP	PHI
				(ft)	(ft)	(pcf)	(psf)		(degrees)
		1	S	4.00	0.00	100.0		1.000	-0.00
		2	S	9.50	4.00	130.0		3.255	32.00
		3	S	20.00	13.50	67.6		3.255	32.00
*** DESIGN (FACTORED) LOADS AT TOP OF PIER		MOMENT (ft-k) = 8869.0				VERTICAL (k) = 77.0		SHEAR (k) = 75.0	
		ADDITIONAL SAFETY FACTOR AGAINST SOIL FAILURE = 1.33							
*** CALCULATED PIER LENGTH (ft) = 27.500									
*** CHECK OF SOILS PROPERTIES AND ULTIMATE RESISTING FORCES ALONG PIER									
TYPE	TOP OF LAYER BELOW TOP OF PIER	THICKNESS	DENSITY	CU	KP	FORCE	ARM		
	(ft)	(ft)	(pcf)	(psf)		(k)	(ft)		
S	0.50	4.00	100.0		1.000	18.00	3.17		
S	4.50	9.50	130.0		3.255	707.93	10.21		
S	14.00	5.42	67.6		3.255	721.22	16.80		
S	19.42	8.08	67.6		3.255	-1346.47	23.62		
*** SHEAR AND MOMENTS ALONG PIER									
		WITH THE ADDITIONAL SAFETY FACTOR				WITHOUT ADDITIONAL SAFETY FACTOR			
DISTANCE BELOW TOP OF PIER (ft)		SHEAR (k)	MOMENT (ft-k)		SHEAR (k)	MOMENT (ft-k)			
0.00		100.7	12402.2		75.5	9301.9			
2.75		95.0	12674.8		71.2	9506.4			
5.50		48.6	12897.7		36.5	9673.5			
8.25		-94.1	12851.7		-70.6	9639.0			
11.00		-308.9	12314.1		-231.7	9235.8			
13.75		-595.6	11086.9		-446.7	8315.4			
16.50		-940.1	8984.1		-705.1	6738.3			
19.25		-1322.1	5882.2		-991.6	4411.7			
22.00		-951.3	2684.7		-713.5	2013.6			
24.75		-494.4	688.3		-370.8	516.3			
27.50		0.0	0.0		0.0	0.0			
*** TOTAL REINFORCEMENT PCT = 0.96		REINFORCEMENT AREA (in^2) = 61.07							
*** USABLE AXIAL CAP. (k) = 77.0		USABLE MOMENT CAP. (ft-k) = 9718.2							

For Design:

7.5-ft Diameter caisson x 27.5-ft long (27-ft Embedded with 0.5-ft above grade)
Concrete strength = 4500 PSI @ 28 days. Estimated Concrete Volume = 45 CY3.
(56) #10 Vertical Rebar. Steel Cross-Section = 71.12 in²

Pier and Pad Foundation

TIA-222 Revision:
 Tower Type:

Top & Bot. Pad Rein. Different?:	<input type="checkbox"/>
Block Foundation?:	<input type="checkbox"/>
Rectangular Pad?:	<input type="checkbox"/>

Superstructure Analysis Reactions		
Compression, P_{comp} :	77	kips
Base Shear, V_{u_comp} :	75	kips
Moment, M_u :	8869	ft-kips
Tower Height, H :		ft
BP Dist. Above Fdn, bp_{dist} :	6	in

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
Lateral (Sliding) (kips)	213.02	75.00	35.2%	Pass
Bearing Pressure (ksf)	9.50	7.42	78.1%	Pass
Overtuning (kip*ft)	9801.76	9394.00	95.8%	Pass
Pier Flexure (Comp.) (kip*ft)	12217.33	9056.50	74.1%	Pass
Pier Compression (kip)	40277.25	102.31	0.3%	Pass
Pad Flexure (kip*ft)	7246.32	5256.21	72.5%	Pass
Pad Shear - 1-way (kips)	1561.09	560.23	35.9%	Pass
Pad Shear - 2-way (Comp) (ksi)	0.201	0.000	0.0%	Pass
Flexural 2-way (Comp) (kip*ft)	9296.35	5433.90	58.5%	Pass

Pier Properties		
Pier Shape:	Square	
Pier Diameter, $dpier$:	7.5	ft
Ext. Above Grade, E :	0.5	ft
Pier Rebar Size, Sc :	10	
Pier Rebar Quantity, mc :	58	
Pier Tie/Spiral Size, St :	5	
Pier Tie/Spiral Quantity, mt :	10	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Soil Rating:	95.8%
Structural Rating:	74.1%

Pad Properties		
Depth, D :	6	ft
Pad Width, W_1 :	30	ft
Pad Thickness, T :	4	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	10	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	30	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	4.5	ksi
Dry Concrete Density, δc :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	110	pcf
Ultimate Net Bearing, Q_{net} :	12.000	ksf
Cohesion, C_u :		ksf
Friction Angle, ϕ :	20	degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :		
Neglected Depth, N :		ft
Foundation Bearing on Rock?		
Groundwater Depth, gw :	N/A	ft

<--Toggle between Gross and Net

WELTI GEOTECHNICAL, P.C.

227 Williams Street · P.O. Box 397
Glastonbury, CT 06033-0397

(860) 633-4623 / FAX (860) 657-2514

October 16, 2025

Mr. Brett Buggeln
Tarpon Towers, LLC
8916 77th Terrace East, Ste 103
Lakewood Ranch, FL 34202

Ref: Geotechnical Study for Proposed Cell Tower (CT1239), 161 Conrad Street, Naugatuck, CT

Dear Brett:

1.0 Herewith are the data from the test boring taken at the above referenced site. One boring was drilled at the proposed tower location to a depth of 30.4 feet below the existing grade. A tower/boring location plan is included with boring logs. *The boring was drilled by Clarence Welti Associates, Inc. and sampling was conducted by this firm solely to obtain indications of subsurface conditions as part of a geotechnical exploration program. No services were performed to evaluate subsurface environmental conditions.*

2.0 The **Subject Project** will include the construction of a 150-foot monopole tower.

3.0 The **Soils Cross Section** from the boring is generally as follows:

Topsoil to 3"

Fine to coarse SAND, little to some Gravel, little Silt to 13.5 feet, dense to very dense

Fine to coarse SAND, some Gravel, Cobbles and Boulders, little Silt to 30+ feet, dense to very dense

Note: Auger refusal was encountered at 13.5 feet below the existing grade. The boring was cored thru dense soil with cobbles and boulders from 13.5 to 30 feet.

Groundwater was in the borehole was below at 13.5 feet below the existing grade at the completion of the boring. The boring was drilled with water below 13.5 feet. An accurate reading could not be taken before the borehole collapsed.

4.0 In general the criteria for tower support is that the foundation capacity would exceed the loads, which might collapse the tower. **Movements from strains in the soils should be limited to differential settlement (or lateral movements of less than ½").**

5.0 The **foundation for the tower** can be with a large mat designed to prevent overturning by gravity resistance of the weight of the mat and soil cover. The mat foundation can be placed on the natural inorganic soils at least 4 feet below the existing grade. There should be a minimum 6" layer of 3/8" crushed stone beneath foundations on the natural soils. The **Allowable Bearing Pressure** on the crushed stone atop the natural soils can be 3.0 Tons/sf.

5.1 In **summary** the following soil properties and design values would apply to alternate 1.

Soil Property/Parameter	Value
Soil Unit Weight (Backfill)	125 pcf
Soil Unit Weight (Natural)	125 pcf
Soil Unit Weight Submerged (Natural)	63 pcf
Angle of Internal Friction (ϕ)	34°
Cohesion	0
Pull Out Angle from Vertical	30°
Sliding Coefficient	0.6
Frost Protection Depth (by code)	3.5 feet
Allowable Soil Bearing Pressure on the natural soil inorganic at 4+ feet below the existing grade	3.0 Tons/sf

6.0 Regarding **backfill of foundations**, the material should conform to the following or be 3/8" crushed stone.

Percent Passing	Sieve Size
100	3.5"
50 - 100	3/4"
25 - 85	No.4

The fraction, passing the No.4 sieve should have less than 15% passing the No. 200 sieve.

All backfill and fill must be compacted to at least 95% of modified optimum density in accordance with ASTM D-1557.

7.0 The soils at the subject site are generally in OSHA class C which would require excavations that are in excess of 5 feet to have slopes which are less than 34° (i.e., 1.5H to 1.0V).

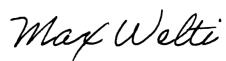
8.0 This report has been prepared for specific application to the subject project in accordance with generally accepted soil and foundation engineering practices. No other warranty, express or implied, is made. In the event that any changes in the nature, design and location of structures are planned, the conclusions and recommendations contained in this report should not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing.

The analyses and recommendations submitted in this report are based in part upon data obtained from referenced explorations. The extent of variations between explorations may not become evident until construction. If variations then appear evident, it will be necessary to re-evaluate the recommendations of this report.

Welti Geotechnical, P.C., should perform a general review of the final design and specifications in order that geotechnical design recommendations may be properly interpreted and implemented as they were intended.

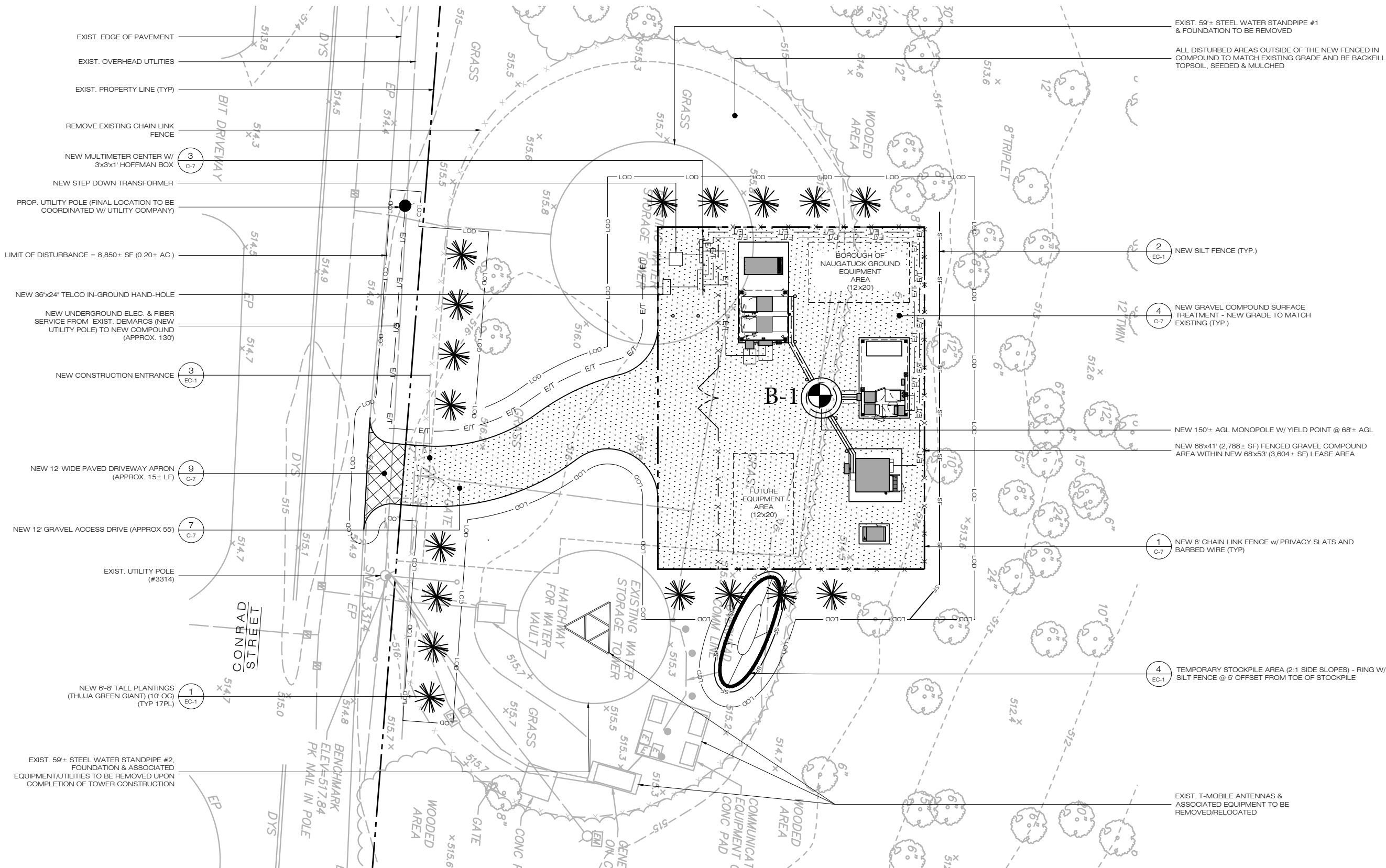
If you have any questions please call me.

Very truly yours,

A handwritten signature in cursive script that reads "Max Welti".

Max Welti, P. E.
President, Welti Geotechnical, P.C.

APPENDIX
TEST BORING LOCATION
+
TEST BORING DATA

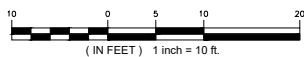


- EXIST. EDGE OF PAVEMENT
- EXIST. OVERHEAD UTILITIES
- EXIST. PROPERTY LINE (TYP)
- REMOVE EXISTING CHAIN LINK FENCE
- NEW MULTIMETER CENTER W/ 3x3x1' HOFFMAN BOX
- NEW STEP DOWN TRANSFORMER
- PROP. UTILITY POLE (FINAL LOCATION TO BE COORDINATED W/ UTILITY COMPANY)
- LIMIT OF DISTURBANCE = 8,850± SF (0.20± AC.)
- NEW 36"x24" TELCO IN-GROUND HAND-HOLE
- NEW UNDERGROUND ELEC. & FIBER SERVICE FROM EXIST. DEMARCS (NEW UTILITY POLE) TO NEW COMPOUND (APPROX. 130')
- NEW CONSTRUCTION ENTRANCE
- NEW 12' WIDE PAVED DRIVEWAY APRON (APPROX. 15± LF)
- NEW 12' GRAVEL ACCESS DRIVE (APPROX 55')
- EXIST. UTILITY POLE (#3314)
- NEW 6'-8" TALL PLANTINGS (THUJA GREEN GIANT) (10' OC) (TYP 17PL)
- EXIST. 59± STEEL WATER STANDPIPE #2, FOUNDATION & ASSOCIATED EQUIPMENT/UTILITIES TO BE REMOVED UPON COMPLETION OF TOWER CONSTRUCTION

- EXIST. 59± STEEL WATER STANDPIPE #1 & FOUNDATION TO BE REMOVED
- ALL DISTURBED AREAS OUTSIDE OF THE NEW FENCED IN COMPOUND TO MATCH EXISTING GRADE AND BE BACKFILLED WITH TOPSOIL, SEEDED & MULCHED
- NEW SILT FENCE (TYP.)
- NEW 150± AGL MONOPOLE W/ YIELD POINT @ 68± AGL
- NEW 68'x41' (2,788± SF) FENCED GRAVEL COMPOUND AREA WITHIN NEW 68'x53' (3,604± SF) LEASE AREA
- NEW 8' CHAIN LINK FENCE w/ PRIVACY SLATS AND BARBED WIRE (TYP)
- TEMPORARY STOCKPILE AREA (2:1 SIDE SLOPES) - RING W/ SILT FENCE @ 5' OFFSET FROM TOE OF STOCKPILE
- EXIST. T-MOBILE ANTENNAS & ASSOCIATED EQUIPMENT TO BE REMOVED/RELOCATED

TEST BORING LOCATION
CLARENCE WELTI ASSOCIATES, INC.
10/2/25

1 SITE PLAN
SP-2 SCALE: 1" = 10'-0"



TARPON TOWERS

8916 77th TERRACE EAST, SUITE 103
LAKEWOOD RANCH, FL 34202

ALL-POINTS TECHNOLOGY CORPORATION

567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1687
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0835

Cellco Partnership d/b/a

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

T-Mobile Northeast LLC

15 COMMERCE WAY
SUITE B
NORTON, MA 02766

at&t

550 COCHITUATE ROAD
FRAMINGHAM, MA 01701

D&M DOCUMENTS

NO	DATE	REVISION
0	09/12/25	FOR REVIEW: RCB
1		
2		
3		
4		
5		
6		

DESIGN PROFESSIONALS OF RECORD

PROF: ROBERT C. BURNS, P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: BOROUGH OF NAUGATUCK
ADDRESS: 229 CHURCH STREET
NAUGATUCK, CT 06770

CT1239 CONRAD ST

SITE 161 CONRAD STREET
ADDRESS: NAUGATUCK, CT 06770

APT FILING NUMBER: CT752130

DRAWN BY: ELZ

DATE: 09/12/25 CHECKED BY: RCB

VZW MDG LOC. CODE: 616755202

VZW PSLC: 470709

VZW FUZE ID: 17453771

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

SP-2

CLARENCE WELTI ASSOC., INC. P.O. BOX 397 GLASTONBURY, CONN 06033				CLIENT TARPON TOWERS, LLC		PROJECT NAME PROPOSED CELL TOWER (CT1239, CONRAD ST) LOCATION 161 CONRAD STREET, NAUGATUCK, CT			
	AUGER	CASING	SAMPLER	CORE BAR.	OFFSET	SURFACE ELEV.		HOLE NO. B-1	
TYPE	HSA		SS	NQ	LINE & STA.	GROUND WATER OBSERVATIONS			START DATE 10/2/25
SIZE I.D.	3.75"		1.375"	2.0"	LONGITUDE	AT	FT. AFTER	HOURS	
HAMMER WT.			140lbs		LATITUDE	AT	FT. AFTER	HOURS	FINISH DATE 10/2/25
HAMMER FALL			30"						
DEPTH	SAMPLE			A	STRATUM DESCRIPTION + REMARKS				ELEV.
	NO.	BLOWS/6"	DEPTH						
0	1	11-60	0.0'-0.7'		TOPSOIL LIGHT BR.FINE-CRS.SAND, LITTLE TO SOME GRAVEL, LITTLE SILT				0.30
	2	4-60	3.0'-3.8'						
5	3	50-53-40-60	5.0'-7.0'						
10	4	41-60	10.0'-10.8'						
15					BR.FINE-CRS.SAND, SOME GRAVEL, COBBLES & BOULDERS, LITTLE SILT				13.5
					NOTE: ENCOUNTERED AUGER REFUSAL @ 13.5 FEET. CORED THRU DENSE SOILS WITH COBBLES AND BOULDERS FROM 13.5 TO 30 FEET				
					RUN #1 13.5'- 18.5' RECOVERED 24"				
					RUN #2 18.5'- 23.5' RECOVERED 13"				
20					RUN #3 23.5'- 30.0' RECOVERED 14"				
25									
30	5	60	30.0'-30.4'		BOTTOM OF BORING @ 30.4'				30.4
					NOTE: THERE WAS NO WATER IN BOREHOLE TO 13.5 FEET BELOW GRADE. THE BORING WAS DRILLED WITH WATER BELOW THAT LEVEL.				
35									
LEGEND: COL. A: SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%						DRILLER: J. BREWER INSPECTOR:			
						SHEET 1 OF 1		HOLE NO. B-1	



Verizon Wireless
20 Alexander Dr
Wallingford, CT 06492

November 24, 2025

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

Re: **Docket No. 533 – Application of Tarpon Towers III, LLC and Cellco Partnership d/b/a Verizon Wireless for a Certificate of Environmental Compatibility and Public Need for the Construction, Maintenance and Operation of a Wireless Telecommunications Facility at 161 Conrad Street, Naugatuck, Connecticut**

Dear Attorney Bachman:

In accordance with condition 2(a) of the Docket No. 533 Decision and Order (“D&O”), this letter serves as notice of Verizon Wireless’ commitment to install and operate on the approved Naugatuck telecommunications facility upon completion of construction by Tarpon Towers III, LLC. Verizon Wireless anticipates that its equipment will be operational within the eighteen-month timeframe included in the Council’s D&O.

Thank you for your consideration of this information.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew Candiello", positioned above a horizontal blue line.

[Andrew Candiello \(Nov 24, 2025 10:29:24 EST\)](#)

Andrew Candiello

Verizon Wireless

Associate Director – Real Estate/Regulatory
New England – Network Real Estate
Cellco Partnership d/b/a Verizon Wireless