

BROADBROOK RELO

**11 Chamberlain Road
East Windsor, Connecticut**

Description of Proposed Cell Site

Cellco Partnership d/b/a Verizon Wireless
20 Alexander Drive
Wallingford, CT 06492

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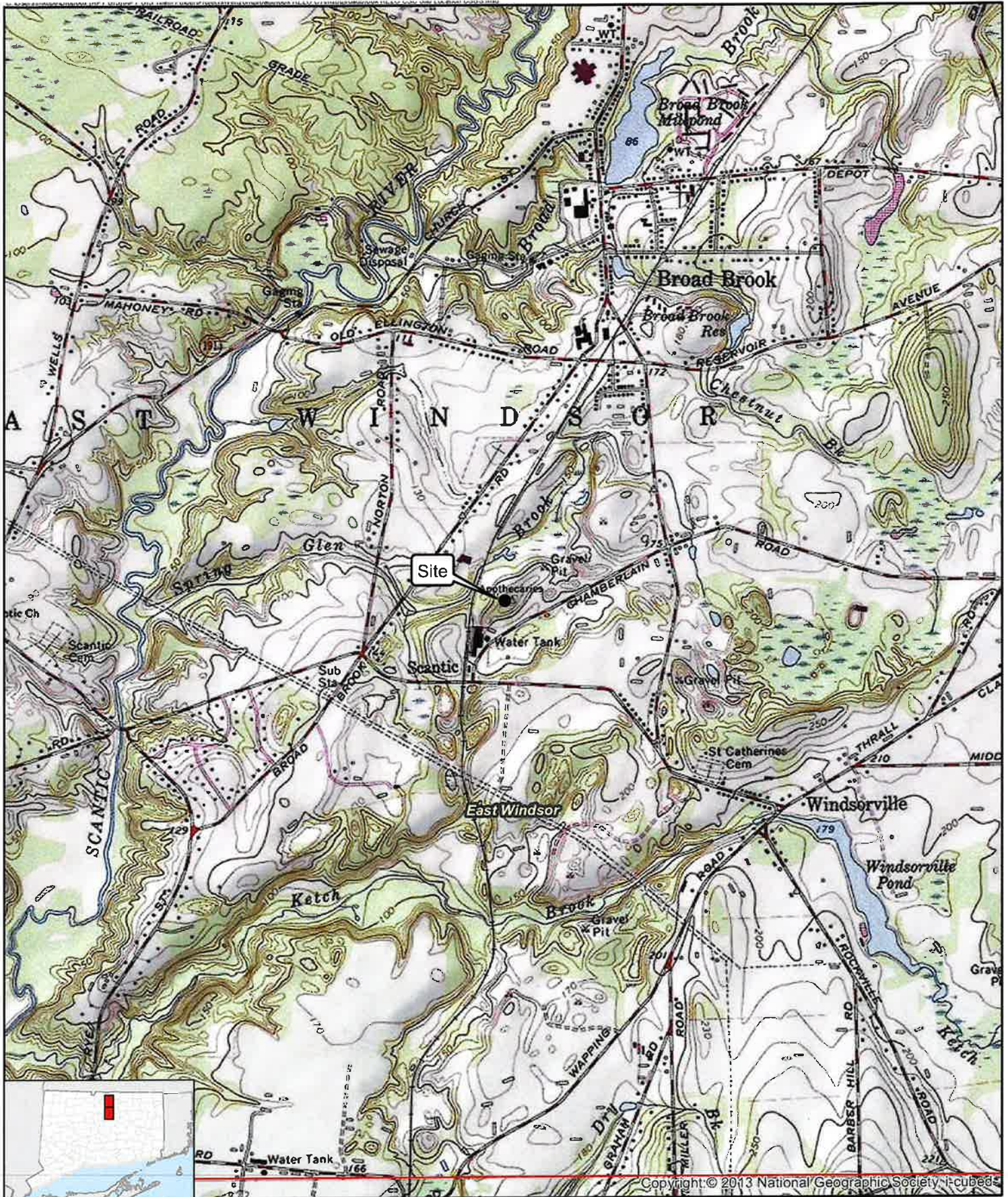
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SITE NAME: BROADBROOK RELO – 11 CHAMBERLAIN ROAD, EAST WINDSOR, CT

GENERAL CELL SITE DESCRIPTION

The proposed Broadbrook Relo cell site (the “Facility”) would be located in the northeast portion of an approximately 10.9-acre parcel at 11 Chamberlain Road in East Windsor, Connecticut (the “Property”). The Property is owned by Nutrien Ag Solutions, Inc. f/k/a Crop Production Services, Inc., and is used for commercial crop manufacturing purposes. The Facility would consist of a 120-foot telecommunications tower and associated equipment located within a 50’ x 50’ fenced compound (100’ x 100’ leased area). Cellco will install equipment, a battery cabinet, and a diesel-fueled generator within the fenced compound, near the base of the tower.

Cellco would attach up to twelve (12) antennas and twelve (12) remote radio heads on an antenna platform at the top of the tower. Vehicular access to the facility would extend Chamberlain Road over a new gravel access driveway. Utility service would extend from existing service along Chamberlain Road to the cell site.



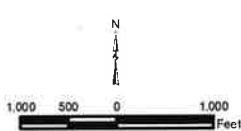
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Legend

- Site
- Municipal Boundary

Map Notes:
 Base Map Source: USGS 7.5 Minute Topographic
 Quadrangle Map, Broad Brook, CT (1984) and
 Manchester, CT (1992)
 Map Scale: 1:24,000
 Map Date: October 2023

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Site Location Map

Proposed Wireless
 Telecommunications Facility
 Broadbrook RELO CT
 11 Chamberlain Road
 East Windsor, Connecticut





Legend

-  Site
-  Subject Property
-  Approximate Parcel Boundary

Map Notes:
 Base Map Source: CT ECO 2019 Imagery
 Map Scale: 1 inch = 500 feet
 Map Date: October 2023

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Site Location Map

Proposed Wireless
 Telecommunications Facility
 Broadbrook RELO CT
 11 Chamberlain Road
 East Windsor, Connecticut





Legend

- Proposed Verizon Wireless Lease Area
- Proposed Verizon Wireless Compound
- Proposed Verizon Wireless Equipment
- Proposed Verizon Wireless Gravel Access Drive
- Subject Property
- Approximate Parcel Boundary

-4-



Site Schematic

Proposed Wireless Telecommunications Facility
 Broadbrook RELO CT
 11 Chamberlain Road
 East Windsor, Connecticut



Map Notes:
 Base Map Source: 2019 CT Aerial Imagery (CTECO)
 Map Scale: 1 Inch = 200 feet
 Map Date: April 2023



SITE EVALUATION REPORT

SITE NAME: BROAD BROOK RELO – 11 CHAMBERALIN ROAD, EAST WINDSOR, CT

I. TOWER LOCATION

- A. COORDINATES: 41°-53'- 58.01" N 72°-33'- 3.97" W
- B. GROUND ELEVATION: Approximately 173.87 feet AMSL
- C. U.S.G.S. QUADRANGLE MAP: Broadbrook, CT
- D. SITE ADDRESS: 11 CHAMBERALIN ROAD, EAST WINDSOR, CT
- E. ZONING WITHIN 1/4 MILE OF SITE: Land within ¼ mile of the cell site is zoned (M-1) Manufacturing and R-3 Residential.

II. DESCRIPTION

- A. SITE SIZE: 50' x 50' Fenced Compound/ 100' x 100' Leased Parcel
- B. LESSOR'S PARCEL: Approximately 10.9 acres
- C. TOWER TYPE/HEIGHT: Overall Height - 120' Monopole Tower
- D. SITE TOPOGRAPHY AND SURFACE: Topography in the area slopes gently down from north to south. Clearing and minimal grading will be required to construct the site access driveway and cell site compound.
- E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The tower would be located in the northeast portion of the approximately 10.9-acre parcel. The new facility compound is located approximately 260 feet from the closest wetland area to the west. An additional wetland area is located approximately 65 feet southeast of the proposed access driveway curb cut south of Chamberlain Road.
- F. LAND USE WITHIN 1/4 MILE OF SITE: The Property is surrounded by an existing rail line and concrete recycling facility to the west, a sand and gravel mining operation to the south and undeveloped woodlands to the north. The land to the west, south and north are located within East Windsor's M-1 industrial zone district. To the east of the Property is agricultural land in the Town's R-3 residential zone. (See Site Location Map, Site Schematic and U.S.G.S. Topographic Map at pp. 2-4).

FACILITIES

- G. POWER COMPANY: Eversource
- H. POWER PROXIMITY TO SITE: Approximately 260 feet to the south along Chamberlain Road.
- I. TELEPHONE COMPANY: Frontier Communications
- J. PHONE SERVICE PROXIMITY: Existing utility services located along Chamberlain Road, north of the school bus lot. (See Plan Sheet C-1 in this Attachment 1).
- K. VEHICLE ACCESS TO SITE: Vehicle access to the site would extend from Chamberlain Road over a new gravel access driveway to the cell site.
- L. CLEARING AND FILL REQUIRED: Tree clearing, and minimal site grading would be required to construct the facility compound. Detailed construction plans would be developed if this location is approved by the Siting Council.

III. LEGAL

- A. PURCHASE [] LEASE [X]
- B. OWNER: Nutrien Ag Solutions, Inc. f/k/a Crop Production Services Inc.
- C. ADDRESS: 11 Chamberlain Road, East Windsor, CT
DEED ON FILE AT: Town of East Windsor, CT Land Records

(Vol. 121 Page 476)

FACILITIES AND EQUIPMENT SPECIFICATION
(NEW TOWER & EQUIPMENT)

SITE NAME: BROADBROOK RELO – 11 CHAMBERALIN ROAD, EAST WINDSOR, CT

I. TOWER SPECIFICATIONS:

A. MANUFACTURER: To be determined

B. TYPE: Self-supporting monopole

C. TOWER HEIGHT: 120' AGL

TOWER DIMENSIONS: Approx. 50" base
 Approx. 24" top

II. TOWER LOADING:

A. CELLCO EQUIPMENT:

1. Panel Antennas – Three (3) Model NHH-65B-R2B; Three (3) NHHSS-65B-R2BT4; and Three (3) Samsung MT6413-77A antennas
2. Remote Radio Heads (RRH)
Three (3) Samsung RF4439d-25A
Three (3) Samsung RF4461d-13A
Three (3) Samsung RT4423-48A
3. GPS Antenna: Attached to the equipment canopy
4. Transmission Lines:
Two (2) Model: HS 85016661 HYBRID fiber optic antenna cables

III. ENGINEERING ANALYSIS AND CERTIFICATION:

The towers will be designed in accordance with Electronic Industries Association Standard EIA/TIA-222-H “Structural Standards for Steel Antenna Towers and Antenna Support Structures.” The foundation designs would be based on soil conditions at the site. Details for the towers and foundation designs will be provided as a part of the final D&M Plan.

ENVIRONMENTAL ASSESSMENT STATEMENT

SITE NAME: BROADBROOK RELO - 11 CHAMBERALIN ROAD, EAST WINDSOR, CT

I. PHYSICAL IMPACT

A. WATER FLOW AND QUALITY

No water flow and/or water quality changes are anticipated as a result of the construction or operation of the facility. There are no lakes, ponds, rivers, streams, wetlands or other regulated bodies of water located in the area to be used for the tower or related facility compound improvements. The closest wetland area is located approximately 260 feet to the west of the proposed facility compound. (See also Attachment 10).

B. AIR QUALITY

Under ordinary operating conditions, Cellco's equipment at the Broadbrook Relo Facility would generate no air emissions. During power outages and periodically for maintenance purposes, Cellco would utilize a diesel-fueled generator to provide emergency back-up power to the facility. Cellco's back-up generator will be managed to comply with the "permit by rule" criteria established by the Connecticut Department of Energy and Environmental Protection ("DEEP") Bureau of Air Management, pursuant to R.C.S.A. § 22a-174-3b.

C. LAND

Trees and ground vegetation will need to be cleared and minimal grading will be required to construct the facility compound. The remaining land of the Lessor would remain unchanged by the construction and operation of the cell site.

D. NOISE

The equipment to be in operation at the site after construction would emit no noise of any kind, except for the occasional operation of the back-up generator which would only run when power to the facility is interrupted and periodically for maintenance purposes. Some noise is anticipated during cell site construction.

E. POWER DENSITY

The maximum permissible exposure limits far-field formula for Cellco's 700 MHz, 850 MHz, 1900 MHz, 2100 MHz 3550 MHz and 3700 MHz antennas at the Broadbrook Relo Facility would be 9.4% of the FCC Safety Standard. (See Attachment 14).

F. VISIBILITY

See Visibility Report included as Attachment 8.



WIRELESS COMMUNICATIONS FACILITY

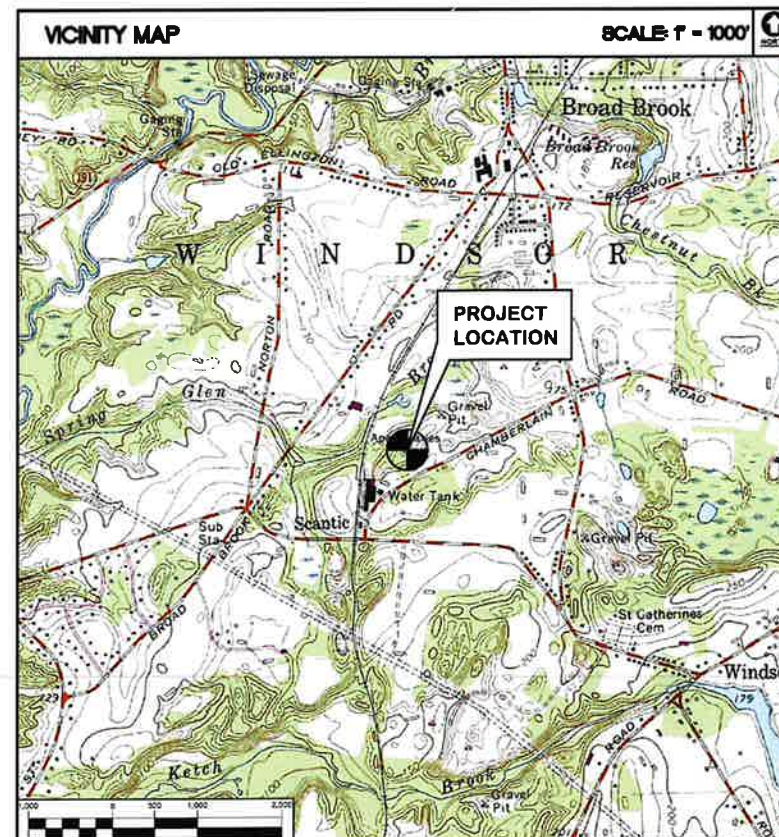
BROADBROOK RELO CT

11 CHAMBERLAIN RD

EAST WINDSOR, CT 06016

SITE DIRECTIONS		
FROM:	TO:	
20 ALEXANDER DRIVE, WALLINGFORD, CT	11 CHAMBERLAIN RD, EAST WINDSOR, CT 06016	
1. HEAD NORTHWEST.		0.01 MI.
2. TURN LEFT.		0.06 MI.
3. TURN RIGHT TOWARD ALEXANDER DR.		0.03 MI.
4. TURN RIGHT ONTO ALEXANDER DR.		0.26 MI.
5. TURN RIGHT ONTO BARNES INDUSTRIAL RD S.		0.11 MI.
6. TURN RIGHT ONTO CT-88.		0.88 MI.
7. CONTINUE ON BARNES RD (CT-88).		1.14 MI.
8. TURN LEFT AND TAKE RAMP ONTO I-91 N TOWARD HARTFORD.		23.73 MI.
9. KEEP RIGHT ONTO I-91.		11.23 MI.
10. TAKE EXIT 45 TOWARD CT-140/WAREHOUSE PT/ELLINGTON.		0.16 MI.
11. TURN RIGHT ONTO BRIDGE ST (CT-140).		0.13 MI.
12. CONTINUE ON NORTH RD (CT-140).		2.22 MI.
13. KEEP RIGHT ONTO NORTH RD (CT-140).		1.43 MI.
14. TURN RIGHT ONTO MAIN ST (CT-191).		0.77 MI.
15. CONTINUE ON MAIN ST.		0.16 MI.
16. TURN LEFT ONTO WINDSORVILLE RD.		0.76 MI.
17. TURN RIGHT ONTO CHAMBERLAIN RD.		0.85 MI.
17. 11 CHAMBERLAIN RD, EAST WINDSOR, CT 06016-9781		

SITE INFORMATION	
THE SCOPE OF WORK SHALL GENERALLY INCLUDE:	
1.	THE CONSTRUCTION OF A 50'x50' FENCED COMMUNICATIONS COMPOUND WITH DOUBLE 6' WIDE ACCESS GATE WITHIN A 100'x100' LEASE AREA.
2.	A TOTAL OF NINE (9) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED AT A CENTERLINE ELEVATION OF 113'-0" A.S.L. ON A PROPOSED 120' PROPOSED STEEL MONOPOLE TOWER LOCATED AT THE CENTER OF THE PROPOSED COMPOUND.
3.	PROPOSED CELCO PARTNERSHIP EQUIPMENT CABINETS AND DIESEL FUELED BACK-UP POWER GENERATOR WITH ICE-BRIDGE CANOPY OVER THE PROPOSED EQUIPMENT ON A PROPOSED 10'x20' CONCRETE PAD LOCATED WITHIN THE COMPOUND.
4.	SITE ACCESS WILL BE VIA A PROPOSED 12' WIDE GRAVEL DRIVE WITHIN A PROPOSED 20' WIDE ACCESS/UTILITY EASEMENT STARTING OFF CHAMBERLAIN ROAD.
5.	POWER AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND FROM EXISTING RESPECTIVE DEMARCS ON OR ADJACENT TO THE SUBJECT PROPERTY TO THE PROPOSED UTILITY BACKBOARD LOCATED WITHIN THE PROPOSED FENCED COMPOUND.
6.	FINAL UTILITY DEMARC LOCATIONS AND UTILITY ROUTING WILL BE VERIFIED/DETERMINED BY LOCAL UTILITY COMPANIES. UTILITIES WILL BE ROUTED FROM UTILITY BACKBOARD TO THE PROPOSED WIRELESS EQUIPMENT.
7.	FINAL DESIGN FOR TOWER AND ANTENNA MOUNTS SHALL BE INCLUDED IN THE D&M PLAN.
8.	THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2022 CONNECTICUT STATE BUILDING CODE AND AMENDMENTS.
9.	THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
10.	THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.
11.	FOR ADDITIONAL NOTES AND DETAILS REFER TO THE ACCOMPANYING DRAWINGS.



PROJECT SUMMARY	
SITE NAME:	BROADBROOK RELO CT
SITE ADDRESS:	11 CHAMBERLAIN RD EAST WINDSOR, CT 06016
PROPERTY OWNER:	CROP PRODUCTION SERVICES INC 3005 ROCKY MOUNTAIN AVE LOVELAND, CO 80538
CELCO PARTNERSHIP/TENANT:	CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06402
VERIZON SITE ACQUISITION CONTACT:	CHUCK BURTON SITE ACQUISITION AND BUSINESS DEVELOPMENT AROSMITH DEVELOPMENT 318 WEST AVENUE SARATOGA SPRINGS, NY 12866 (860) 306-8335 CELL
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE (860) 275-8346
PROPOSED TOWER COORDINATES (PRELIMINARY):	LATITUDE 41°-53'-58.01" N LONGITUDE 72°-33'-3.97" W GROUND ELEVATION: 173.87± A.M.S.L. COORDINATES AND GROUND ELEVATION REFERENCED FROM CLASS D SURVEY PREPARED BY CENTEK ENGINEERING DATED 04/06/2023

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PROFESSIONAL ENGINEER SEAL

VERIZON

CENTEK Engineering

Cellco Partnership d/b/a Verizon Wireless

BROADBROOK RELO CT
11 CHAMBERLAIN RD
EAST WINDSOR, CT 06016

DATE: 07/20/2023
SCALE: AS NOTED
JOB NO. 22017.11

TITLE SHEET

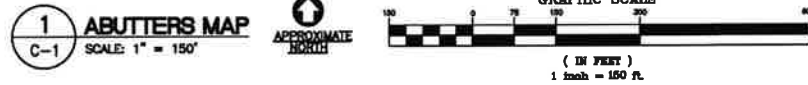
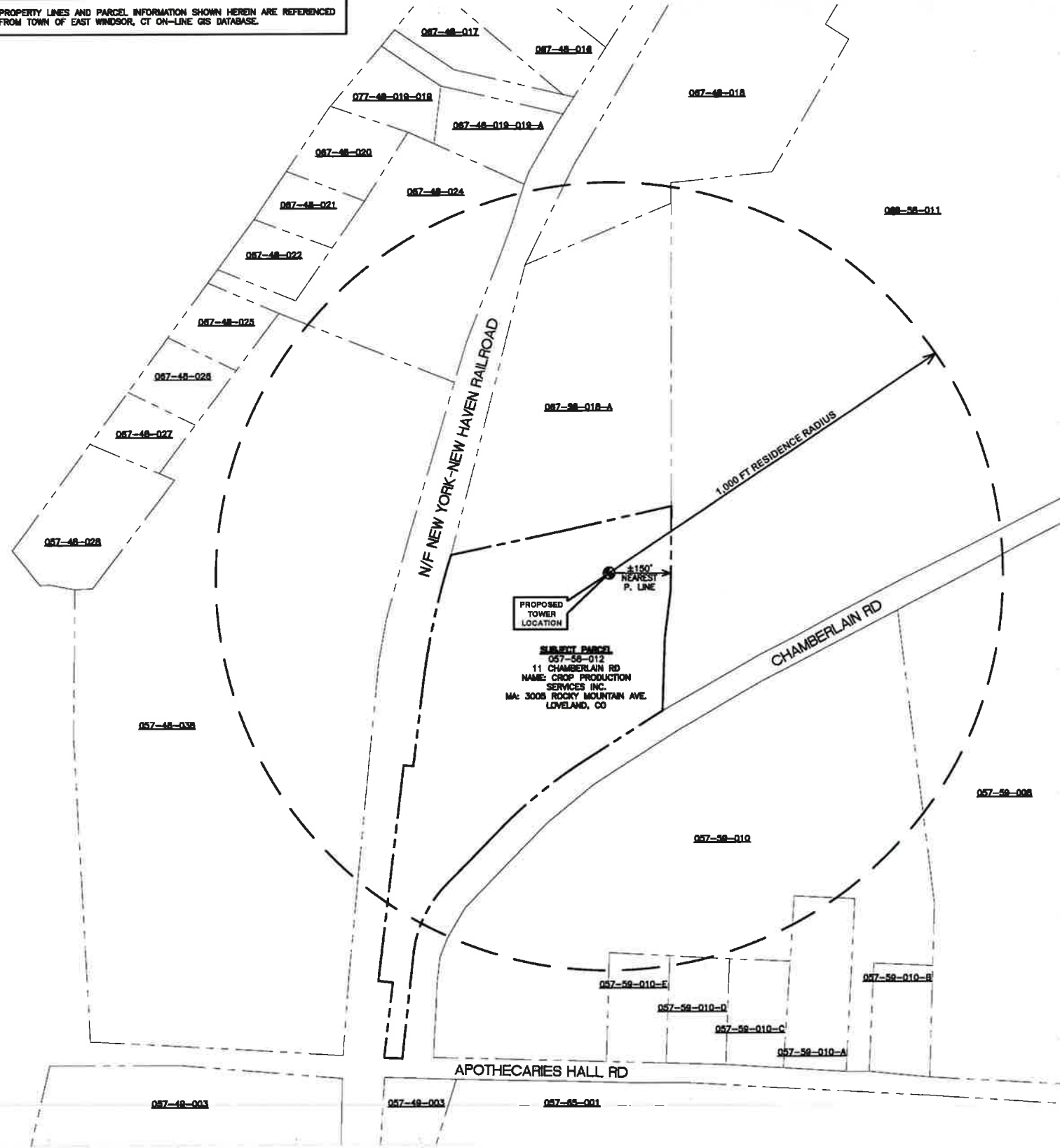
T-1

Sheet No. 1 of 9

REV.	DATE	PREPARED BY	CHECKED BY	DESCRIPTION
1	06/13/23	OSP	SPR	FULL CT SITING COUNCIL DRAWINGS - ISSUED FOR UPDATED RFDS
2	06/13/23	OSP	SPR	FULL CT SITING COUNCIL DRAWINGS - ISSUED FOR APPROVAL
3	07/20/23	OSP	SPR	FULL CT SITING COUNCIL DRAWINGS - ISSUED FOR CLIENT REVIEW

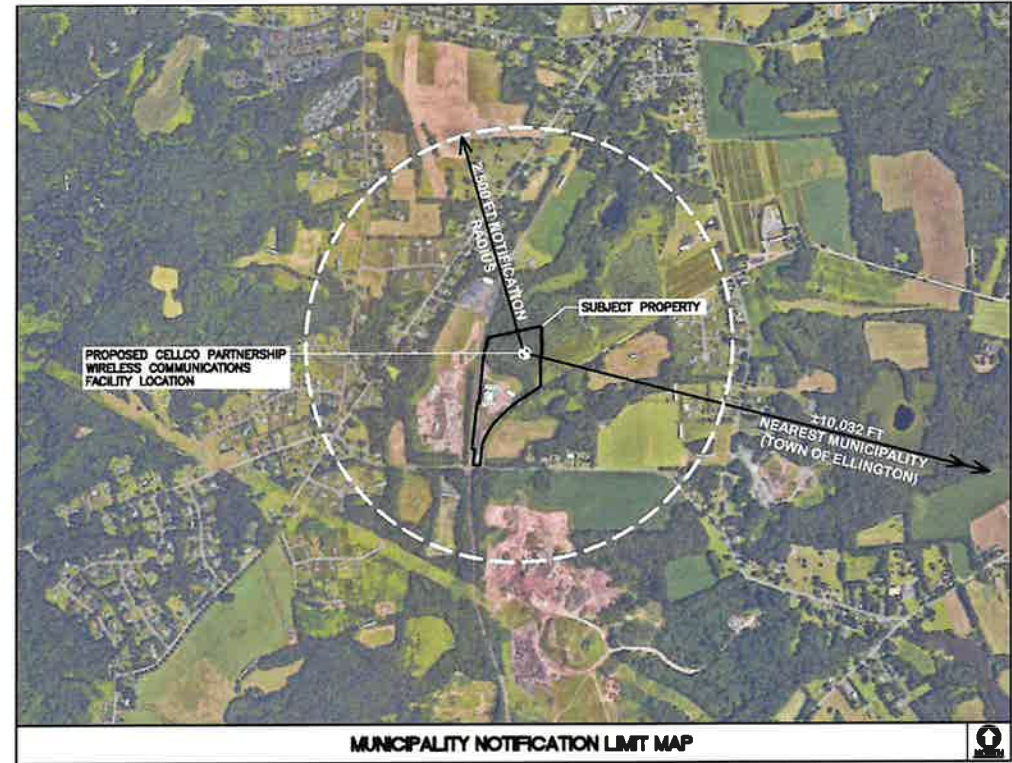
ABUTTERS MAP REFERENCE NOTE

PROPERTY LINES AND PARCEL INFORMATION SHOWN HEREIN ARE REFERENCED FROM TOWN OF EAST WINDSOR, CT ON-LINE GIS DATABASE.



ABUTTERS LIST

PARCEL ID	ADDRESS	OWNER	OWNER ADDRESS
067-58-018-A	RYE ST	HERB HOLDEN TRUCKING INC.	56 BROAD BROOK RD, BROAD BROOK, CT 06016
088-58-011	CHAMBERLAIN RD	MOORE TIM D & KYLE E & SURV	145 CHAMBERLAIN RD, BROAD BROOK, CT 06016
087-58-010	APOTHECARIES HALL RD	BURNHAM JOHN L	178 SCANTIC RD, EAST WINDSOR, CT 06088
087-48-003	30 APOTHECARIES HALL RD	EAST WINDSOR SPORTSMAN CLUB INC	P.O. BOX 443, BROAD BROOK, CT 06016
057-48-038	33 APOTHECARIES HALL RD	HERB HOLDEN TRUCKING INC.	56 BROAD BROOK RD, BROAD BROOK, CT 06016



		FULL CT SITING COUNCIL DRAWINGS - REVISED FOR UPDATED PDOS FULL CT SITING COUNCIL DRAWINGS - ISSUED FOR APPROVAL FULL CT SITING COUNCIL DRAWINGS - ISSUED FOR DEBIT REVIEW
REV.	DATE	ISSUED BY
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100	07/20/23	14R

Celco Partnership d/b/a Verizon Wireless
BROADBROOK RELO CT
 11 CHAMBERLAIN RD
 EAST WINDSOR, CT 06016

DATE: 07/20/2023
 SCALE: AS NOTED
 JOB NO. 22017.11

ABUTTERS AND MUNICIPAL NOTIFICATION MAPS

C-1
 Sheet No. 2 of 2

SURVEY NOTES

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPT. 28, 1998. IT IS A COMPILATION PLAN AND IS BASED UPON LIMITED FIELD DATA AND REFERENCE MAPS CONFORMING TO A HORIZONTAL ACCURACY CLASS D, THE LIMITED TOPOGRAPHIC SURVEY PORTION OF THIS PLAN CONFORMS TO A VERTICAL ACCURACY OF CLASS T-2 AND IS INTENDED TO BE USED TO DEPICT THE DELINEATED WETLANDS AND PROPOSED TELECOMMUNICATION FACILITY.

THE PROPERTY/BOUNDARY LINES (IF ANY) DEPICTED HEREON ARE COMPILED FROM OTHER MAPS, DEEDS, AND LIMITED FIELD SURVEY. THESE LINES ARE NOT TO BE CONSTRUED AS A BOUNDARY OPINION AND ARE SUBJECT TO A CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. PROPERTY MAY BE SUBJECT TO ENCUMBRANCES, EASEMENTS, RIGHTS OF WAY AS A TITLE SEARCH REPORT MAY DISCLOSE.

HORIZONTAL DATUM IS NAVD 88.

PARCEL OWNER OF RECORD: CROP PRODUCTION SERVICES INC
3005 ROCKY MOUNTAIN AVE
LOVELAND, CO 80538
DEED REFERENCES: VOL. 121 P. 478

PARCEL AREA = ± 10.9

PARCEL IS IN "M-1" ZONING DISTRICT

PARCEL ID: MAP 057 BLOCK 58 LOT 012 EAST WINDSOR ASSESSOR'S OFFICE

UTILITIES SHOWN AS MARKED IN FIELD, NO SUBSURFACE INVESTIGATION WAS PERFORMED.

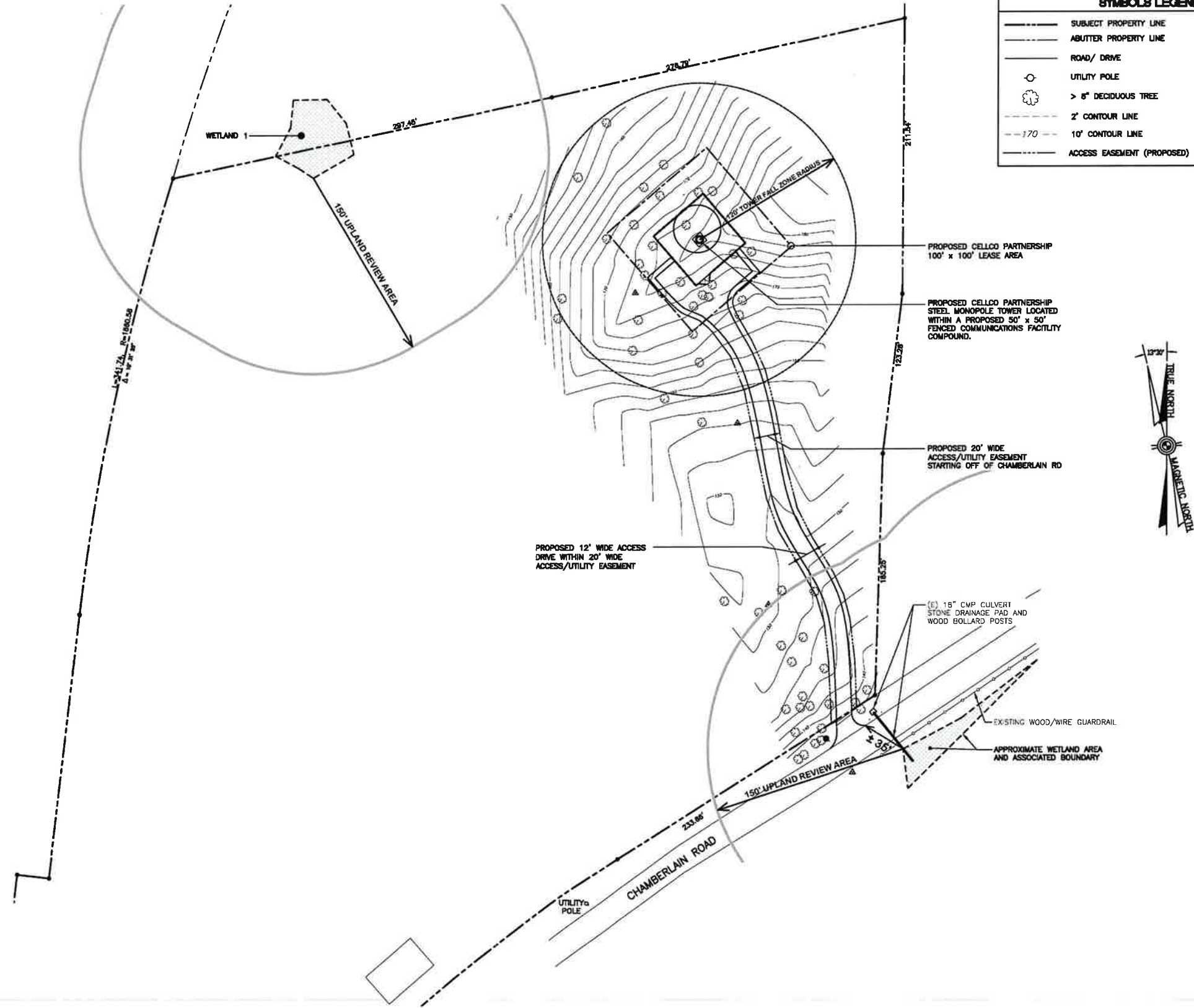
NOT ALL IMPROVEMENTS SHOWN.

MAP REFERENCES

- 1) MAP ENTITLED "ZONING LOCATION PLAN FOR CROP PRODUCTION SERVICES 15 CHAMBERLAIN ROAD" EAST WINDSOR, CONNECTICUT, BY LANDMARK SURVEYS, LLC SCALE: 1" = 40', DATED 10/12/2004 ON FILE IN THE EAST WINDSOR ZONING DEPARTMENT OFFICE.

WETLANDS REFERENCE NOTE

DELINEATED WETLAND AREA 1, APPROXIMATE WETLAND BOUNDARY AND 150 FT UPLAND REVIEW AREAS SHOWN HEREIN ARE REFERENCED FROM WETLAND INSPECTION MAP PREPARED FOR VERIZON WIRELESS BY ALL POINTS TECHNOLOGY CORP., P.C. (APT) DATED MARCH, 2023.

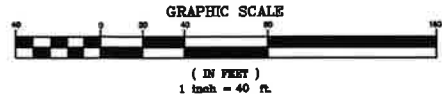


SYMBOLS LEGEND	
---	SUBJECT PROPERTY LINE
---	ABUTTER PROPERTY LINE
---	ROAD/ DRIVE
○	UTILITY POLE
⊗	> 8" DECIDUOUS TREE
---	2' CONTOUR LINE
---	10' CONTOUR LINE
---	ACCESS EASEMENT (PROPOSED)



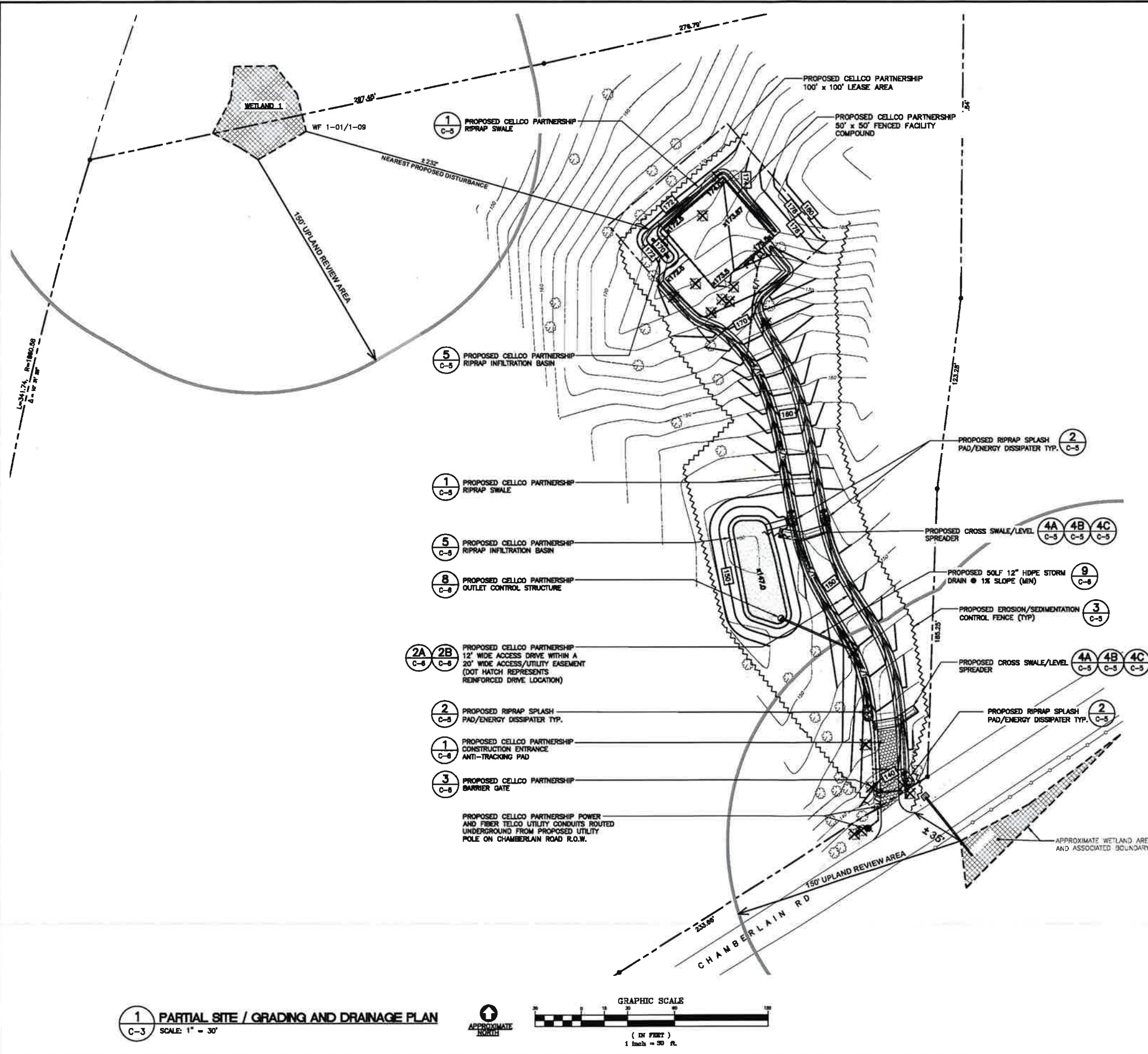
DERRICK R. SCHULL P.E., L.S. #15566
2401 CAMRYN'S CROSSING
PANAMA CITY, FL 32405
(203) 530-997

1 PARTIAL SITE / SURVEY PLAN
C-2 SCALE: 1" = 40'



Celco Partnership d/b/a Verizon Wireless BROADBROOK RELO CT 11 CHAMBERLAIN RD EAST WINDSOR, CT 06016	
DATE:	07/20/2023
SCALE:	AS NOTED
JOB NO.	22017.11
PARTIAL SITE / SURVEY PLAN	
C-2 Sheet No. 3 of 3	

REV.	DATE	BY	CHK'D BY	DESCRIPTION
1	06/13/23	BSP		FULL CT STRING COUNCIL DRAWINGS - REVISED FOR UPDATED PDS
2	06/27/23	TAR		FULL CT STRING COUNCIL DRAWINGS - ISSUED FOR APPROVAL
3	07/20/23	TAR		FULL CT STRING COUNCIL DRAWINGS - ISSUED FOR CLIENT REVIEW



SITE/SURVEY PLAN SYMBOLS LEGEND

	PROPERTY LINE
	TIMBER POST/CABLE GUARD RAIL (EXISTING)
	UTILITY POLE (EXISTING)
	UTILITY POLE (PROPOSED)
	TREE >8" (EXISTING)
	TREE >8" TO BE REMOVED
	2' CONTOUR LINE
	10' CONTOUR LINE
	WF 1-01/1-09 WETLAND FLAG LOCATION/DESIGNATION
	FACILITY COMPOUND FENCE (PROPOSED)
	GEOGRID REINFORCEMENT ALONG PROPOSED ACCESS DRIVE
	GRAVEL ACCESS DRIVE (PROPOSED)
	GRADING LINE/ELEVATION
	SPOT ELEVATION (PROPOSED)
	U/G ELECT. AND TELCO UTILITY CONDUITS (PROPOSED)
	ACCESS EASEMENT (PROPOSED)
	SILTATION FENCE EROSION CONTROL
	ANTI-TRACKING PAD

TREE PROPOSAL/REMOVAL SUMMARY

NOTE: NO NEW TREES ARE BEING PROPOSED

NOTE: A TOTAL OF (18) TREES OF 8" IN DIAMETER OR GREATER AT BREAST HEIGHT ARE PROPOSED TO BE REMOVED IN AREAS AS FOLLOWS:

PROPOSED 100' x 100' LEASE AREA:

- (3) 15" OAK
- (2) 12" BIRCH
- (1) 10" BIRCH
- (1) 10" DOUBLE OAK
- (1) 12" OAK
- (2) 12" OAK

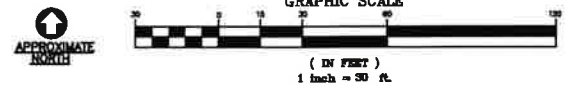
PROPOSED ACCESS DRIVE:

- (3) 12" MAPLE
- (2) 12" OAK
- (1) 10" MAPLE
- (1) 15" ASH
- (1) 18" OAK

NOTES:

- PROPOSED UTILITY ROUTING SHOWN HEREIN IS SCHEMATIC. FINAL ROUTING TO BE COORDINATED WITH UTILITY PROVIDERS AND PROPERTY OWNER DURING THE DAM PHASE OF THE PROJECT.
- DELINEATED WETLAND AREA 1, APPROXIMATE WETLAND BOUNDARY AND 150 FT UPLAND REVIEW AREAS SHOWN HEREIN ARE REFERENCED FROM WETLAND INSPECTION MAP PREPARED FOR VERIZON WIRELESS BY ALL POINTS TECHNOLOGY CORP., P.C. (APT) DATED MARCH, 2023.

1 PARTIAL SITE / GRADING AND DRAINAGE PLAN
C-3 SCALE: 1" = 30'



PROFESSIONAL ENGINEER SEAL

verizon

CENTEK Engineering, Inc.
203-899-0580
203-899-8587 Fax
452 North Branford Road
Branford, CT 06405
www.CentekEng.com

Celco Partnership d/b/a Verizon Wireless

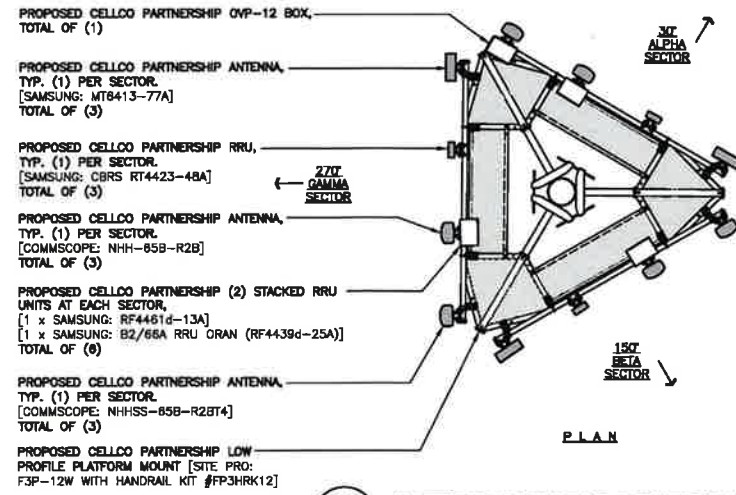
BROADBROOK RELO CT
11 CHAMBERLAIN RD
EAST WINDSOR, CT 06016

DATE: 07/20/2023
SCALE: AS NOTED
JOB NO. 22017.11

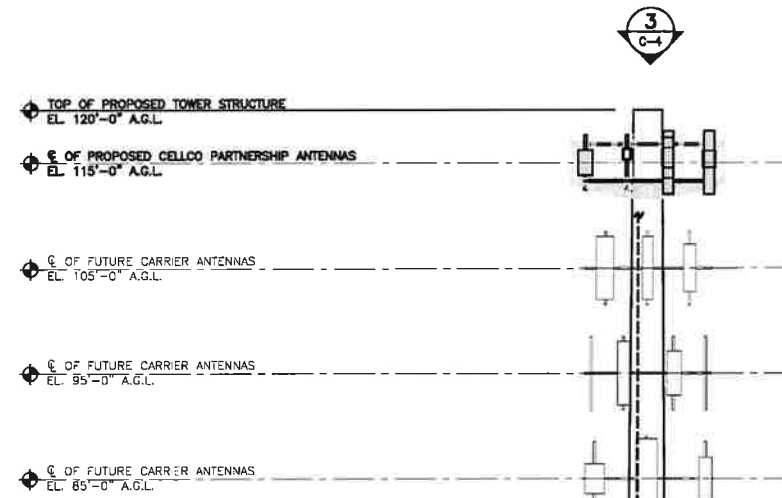
PARTIAL SITE / GRADING AND DRAINAGE PLAN

C-3

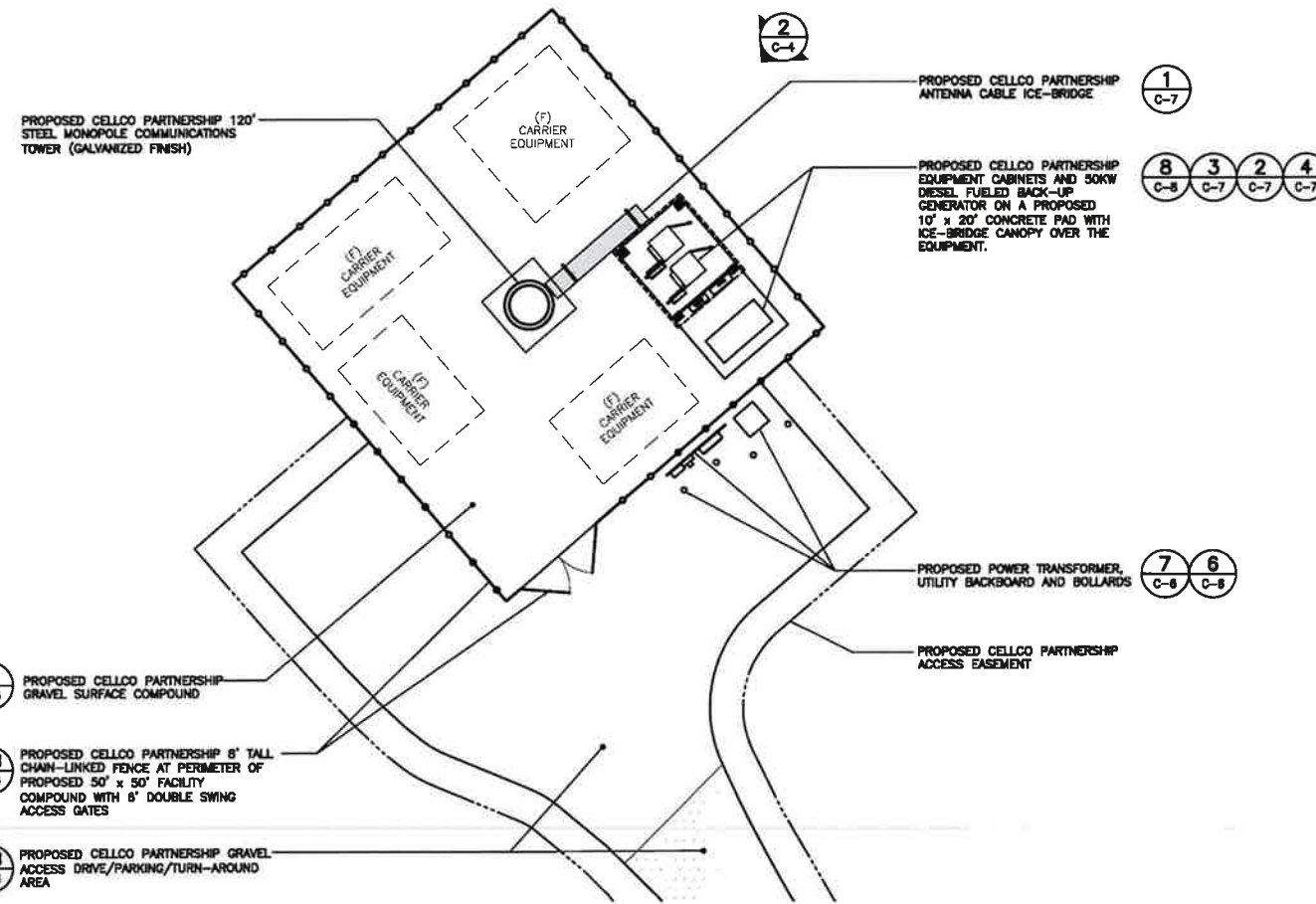
Sheet No. 4 of 3



3 ANTENNA MOUNTING CONFIGURATION
 SCALE: 1/4" = 1'-0"
 APPROXIMATE NORTH



2 NORTHEAST FACILITY ELEVATION
 SCALE: 1" = 8'



1 COMPOUND PLAN
 SCALE: 1" = 10'
 APPROXIMATE NORTH

GRAPHIC SCALE
 (IN FEET)
 1 inch = 10 ft.

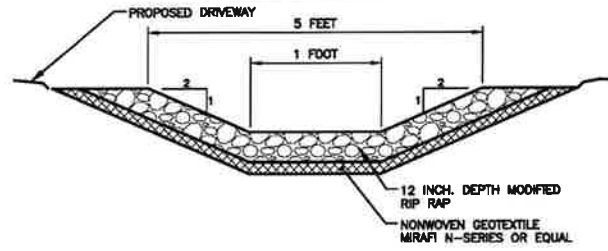
TOWER NOTE:
 TOWER AND TOWER FOUNDATION DESIGN TO BE COMPLETED DURING THE D&M PHASE OF THE PROJECT AND AFTER GEOTECHNICAL EVALUATION OF EXISTING SOILS AND SUBSURFACE CONDITIONS.

verizon engineering	CENTEK Engineering, Inc. 203 896 0560 203 896 8587 Fax 43 2 North Branford Road Branford, CT 06405 www.centekeng.com
Celco Partnership d/b/a Verizon Wireless BROADBROOK RELO CT 11 CHAMBERLAIN RD EAST WINDSOR, CT 06016	DATE: 07/20/2023 SCALE: AS NOTED JOB NO. 22017.11 COMPOUND PLAN, ELEVATION AND ANTENNA CONFIG. C-4 Sheet No. 5 of 3

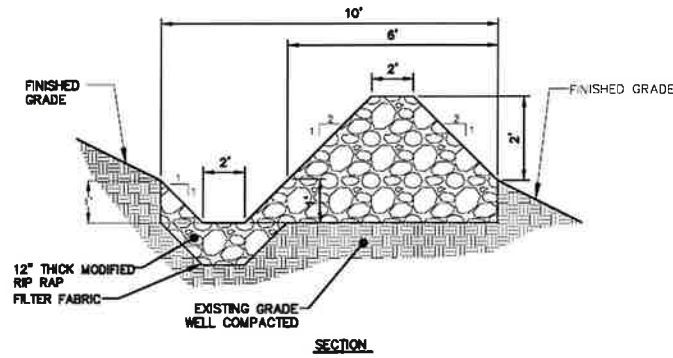
REV.	DATE	ISSUED BY	CHK'D BY	DESCRIPTION
1	06/15/23	ESP		FULL CT STRING COUNCIL DRAWINGS - REVISED PER UPDATED IPDS
2	06/22/23	JAR		FULL CT STRING COUNCIL DRAWINGS - ISSUED FOR APPROVAL
3	07/20/23	JAR		FULL CT STRING COUNCIL DRAWINGS - ISSUED FOR CLIENT REVIEW

DOT MODIFIED RIPRAP SIZES

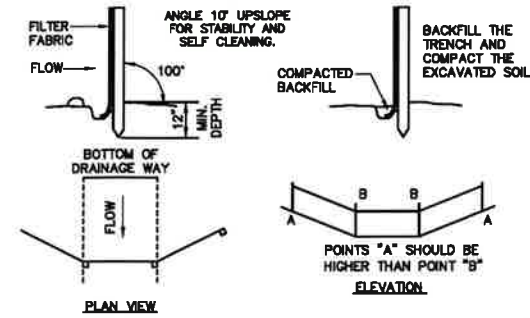
STONE SIZE	% OF MASS
10" AND OVER	0
8" TO 10"	30-50
4" TO 8"	30-50
2" TO 4"	20-30
1" TO 2"	10-20
LESS THAN 1"	0-10



1 TYP. RIP RAP SWALE - SECTION
C-5 SCALE: NOT TO SCALE



2 RIP RAP SPLASH PAD/ENERGY DISSIPATER
C-5 SCALE: NOT TO SCALE



3 PLACEMENT AND CONSTRUCTION OF SILTATION FENCE
C-5 SCALE: NOT TO SCALE

MAINTENANCE - SILT FENCE

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

SOIL EROSION AND SEDIMENT CONTROL SEQUENCE

- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS CONSTRUCTION ENTRANCE / ANTI TRACKING PAD, SILTATION FENCE, AND SILTATION FENCE / HAY BALE SHALL BE IN PLACE PRIOR TO ANY GRADING ACTIVITY, INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. MEASURES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND/OR AREA IS STABILIZED.
- THE ENTRANCE TO THE PROJECT SITE IS TO BE PROTECTED BY STONE ANTI TRACKING PAD OF ASTM C-33, SIZE NO. 2 OR 3, OR D.O.T. 2" CRUSHED GRAVEL. THE STONE ANTI TRACKING PAD IS TO BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- LAND DISTURBANCE WILL BE KEPT TO A MINIMUM AND RE-STABILIZATIONS WILL BE SCHEDULED AS SOON AS PRACTICAL.
- ALL SOIL EROSION AND SEDIMENT CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL INCLUDING THE LATEST DATE FROM THE COUNCIL ON SOIL AND WATER CONSERVATION.
- ANY ADDITIONAL EROSION/SEDIMENTATION CONTROL DEEMED NECESSARY BY TOWN STAFF DURING CONSTRUCTION, SHALL BE INSTALLED BY THE DEVELOPER. IN ADDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE TOWN STAFF.
- IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION AS WELL AS DISTURBANCE OF THE SOIL IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE. DURING CONSTRUCTION, EXPOSE AS SMALL AN AREA OF SOIL AS POSSIBLE FOR AS SHORT A TIME AS POSSIBLE.
- SILTATION FENCE SHALL BE PLACED AS INDICATED BEFORE A CUT SLOPE HAS BEEN CREATED. SEDIMENT DEPOSITS SHOULD BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDES OF SILTATION FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR TO BE USED IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. SILTATION FENCE IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE FENCE IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.
- SWALE DISCHARGE AREA WILL BE PROTECTED WITH RIP RAP SPLASH PAD/ ENERGY DISSIPATER.
- ALL FILL AREAS SHALL BE COMPACTED SUFFICIENTLY FOR THEIR INTENDED PURPOSE AND AS REQUIRED TO REDUCE SLIPPING, EROSION OR EXCESS SATURATION.
- THE SOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.
- AFTER CONSTRUCTION IS COMPLETE AND GROUND IS STABLE, REMOVE SILTS IN THE RIP RAP ENERGY DISSIPATERS. REMOVE OTHER EROSION AND SEDIMENT DEVICES.

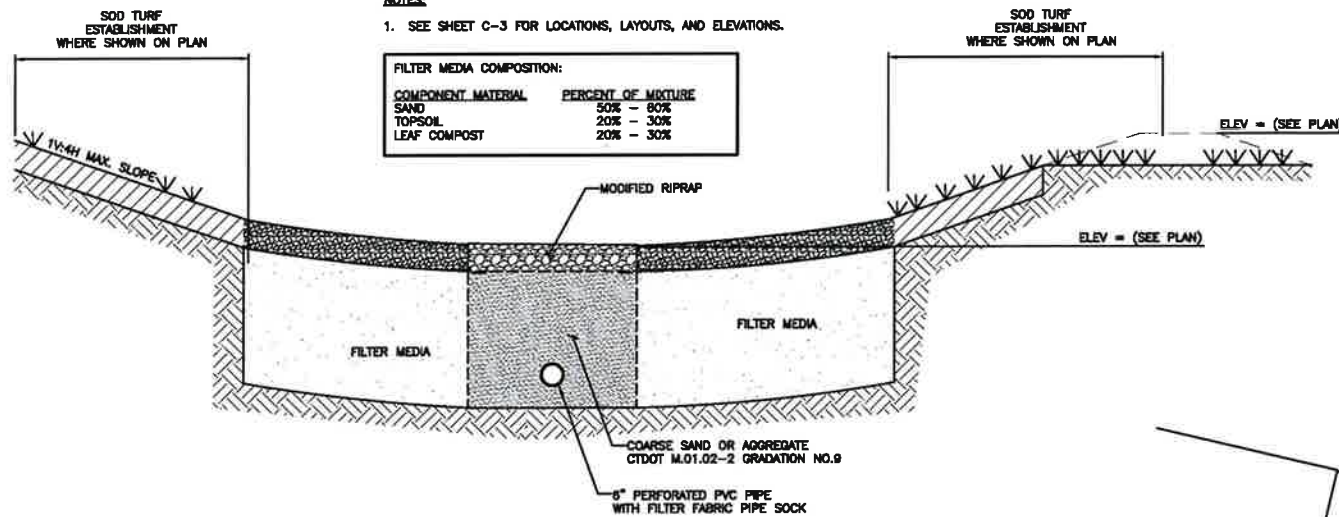
CONSTRUCTION SPECIFICATIONS - SILT FENCE

- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
- FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 18 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BUILD UP IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

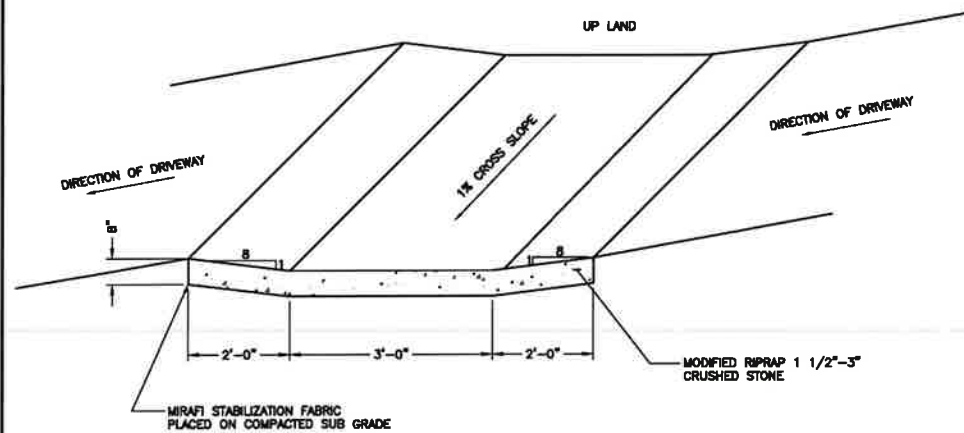
NOTES:

- SEE SHEET C-3 FOR LOCATIONS, LAYOUTS, AND ELEVATIONS.

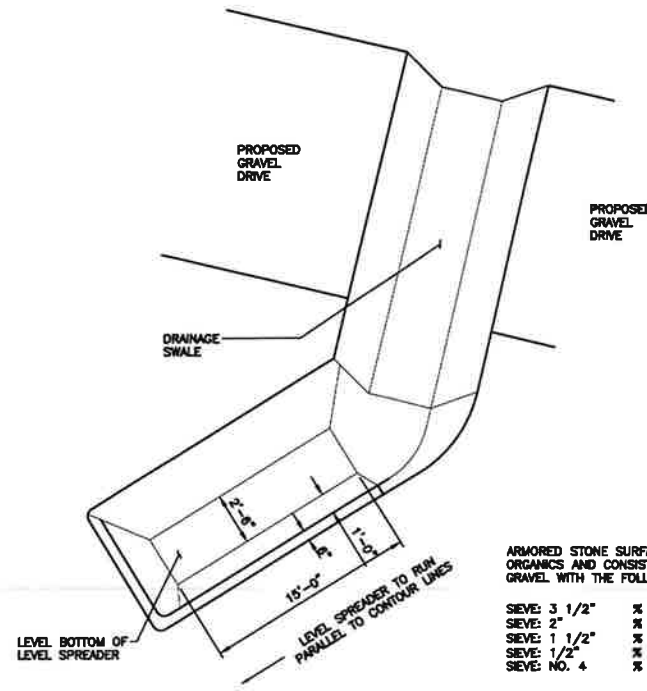
FILTER MEDIA COMPOSITION:	
COMPONENT MATERIAL	PERCENT OF MIXTURE
SAND	50% - 80%
TOPSOIL	20% - 30%
LEAF COMPOST	20% - 30%



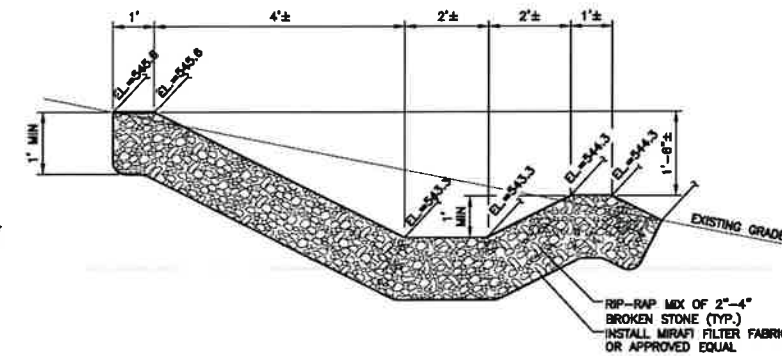
5 RIPRAP INFILTRATION BASIN
C-5 SCALE: NOT TO SCALE



4A CROSS DRAINAGE SWALE
C-5 SCALE: NOT TO SCALE



4B LEVEL SPREADER W/ CROSS DRAINAGE SWALE
C-5 SCALE: NOT TO SCALE



4C TYPICAL LEVEL SPREADER SECTION
C-5 SCALE: NOT TO SCALE

ARMORED STONE SURFACE SHALL BE FREE OF ORGANICS AND CONSIST SOLELY OF CRUSHED GRAVEL WITH THE FOLLOWING GRADATION:

SIEVE: 3 1/2"	% PASSING: 100
SIEVE: 2"	% PASSING: 35-70
SIEVE: 1 1/2"	% PASSING: 0-15
SIEVE: 1/2"	% PASSING: 0-5
SIEVE NO. 4	% PASSING: 0

DATE: 07/20/2023
SCALE: AS NOTED
JOB NO. 22017.11

C-5
Sheet No. 6 of 9

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Stonford, CT 06830
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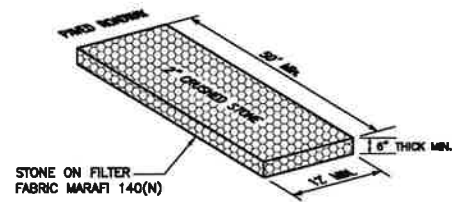
Full CT String Source Drawings - Revised Per Updated RFDs
Full CT String Source Drawings - Issued For Approval
Full CT String Source Drawings - Issued For Clear Review

DATE: 07/20/23
DATE: 08/13/23
DATE: 09/22/23
DATE: 07/20/23

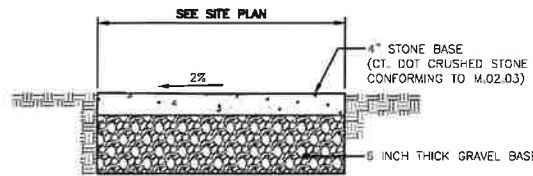
REV. 1
REV. A
REV. A

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DRAWN BY: [Signature]
DATE: 07/20/23

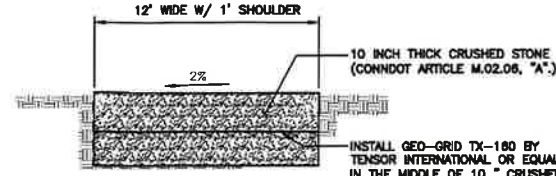
PROFESSIONAL ENGINEER SEAL



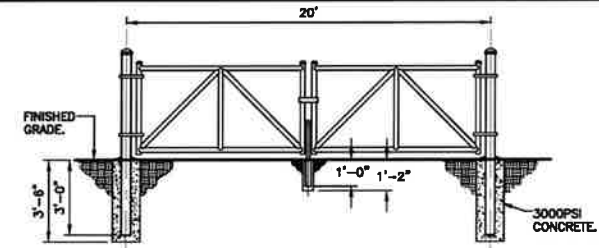
1 CONSTRUCTION ENTRANCE ANTI-TRACKING PAD
SCALE: NOT TO SCALE



2A GRAVEL SURFACE ACCESS ACCESS DRIVE AND PARKING AREA
SCALE: NOT TO SCALE



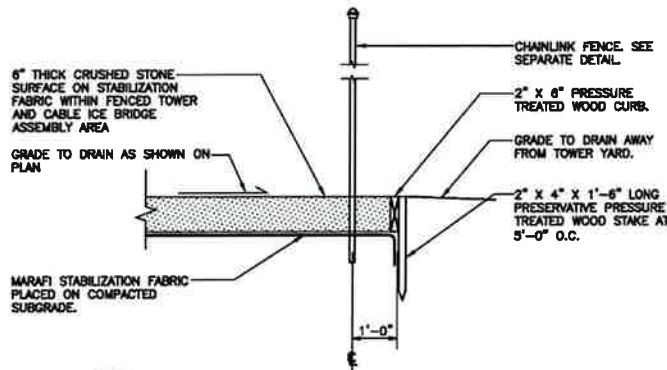
2B GRAVEL ACCESS DRIVE W/ GEOGRID REINFORCEMENT
SCALE: NOT TO SCALE



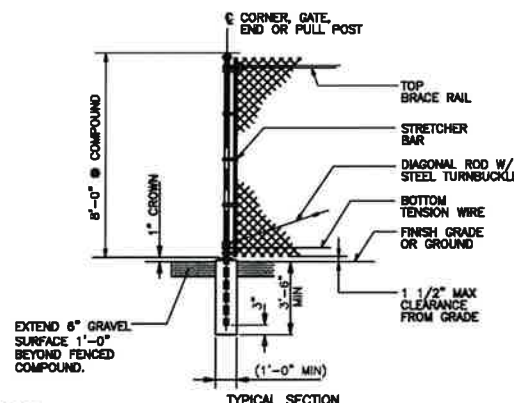
BARRIER GATE CONSTRUCTION NOTES

1. GATE POST 3" # SCHEDULE 40 FOR GATE WIDTHS UP THRU 8 FEET OR 12 FEET FOR DOUBLE SWING BARRIER GATE PER ASTM-F1083.
2. GATE FRAME: 2" # SCHEDULE 40 PIPE PER ASTM-F1083.
3. CENTER UPRIGHT AND ANGLE BRACES: 1 5/8" # SCHEDULE 40 PIPE PER ASTM-F1083.
4. INDUSTRIAL OFFSET HINGES (I.O.H.).
5. INDUSTRIAL DROP ROD AND LATCH.
6. PROVIDE CAPS ON POSTS AND UPRIGHTS.
7. SEE PLAN FOR APPROXIMATE BARRIER GATE LOCATION. FINAL LOCATION TO BE COORDINATED IN FIELD.

3 BARRIER GATE DETAIL (SITE ENTRANCE)
SCALE: NOT TO SCALE



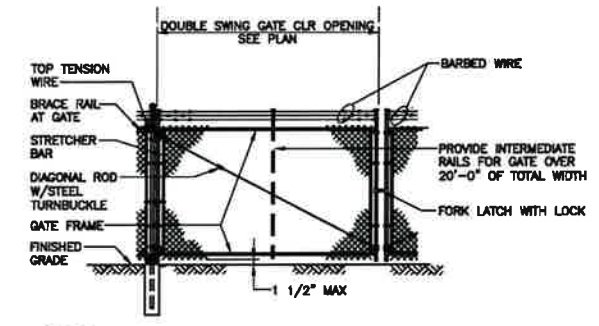
4 COMPOUND SURFACING DETAIL
SCALE: NOT TO SCALE



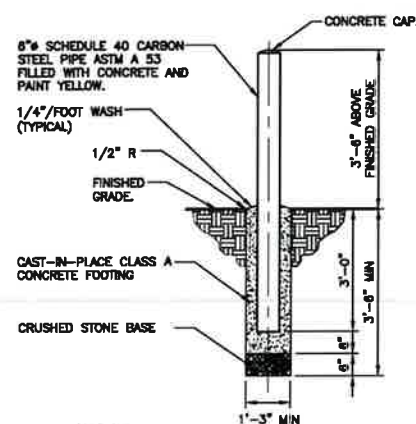
5A WOVEN WIRE COMPOUND FENCE DETAIL
SCALE: NOT TO SCALE

WOVEN WIRE FENCE NOTES:

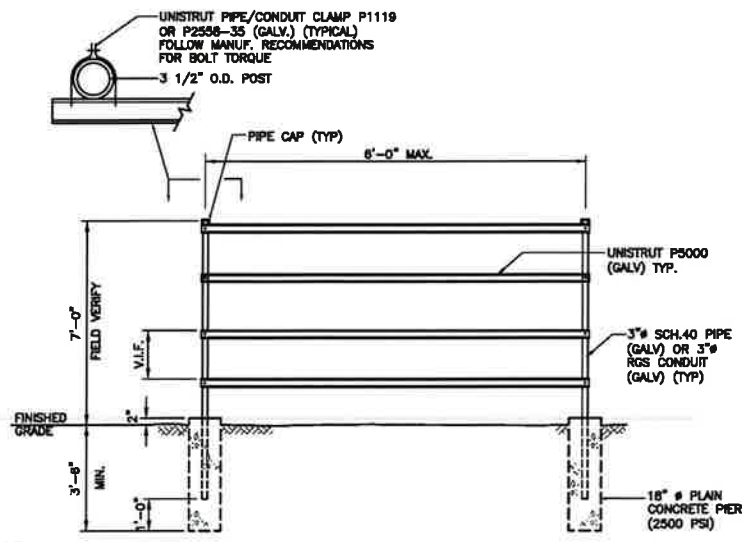
1. GATE POST, CORNER, TERMINAL OR PULL POST 2 1/2" SCHEDULE 40 PIPE FOR GATE WIDTHS UP THRU 8 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POST: 2" SCHEDULE 40 PIPE PER ASTM-F1083.
3. GATE FRAME: 1 1/2" SCHEDULE 40 PIPE PER ASTM-F1083.
4. TOP RAIL & BRACE RAIL: 1 1/2" SCHEDULE 40 PIPE PER ASTM-F1083.
5. FABRIC: 12 GA. CORE WIRE SIZE 1 1/2" MESH, CONFORMING TO ASTM-A392.
6. TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL AT POSTS AND RAILS. A SINGLE WRAP OF FABRIC TIE AND TENSION WIRE BY HOG RINGS SPACED 24" INTERVALS.
7. TENSION WIRE: 7 GA. GALVANIZED STEEL.
8. GATE LATCH: DROP DOWN LOCKABLE FORK HATCH AND LOCK, KEYED TO OWNER'S REQUIREMENTS.
9. HEIGHT = 8' VERTICAL.



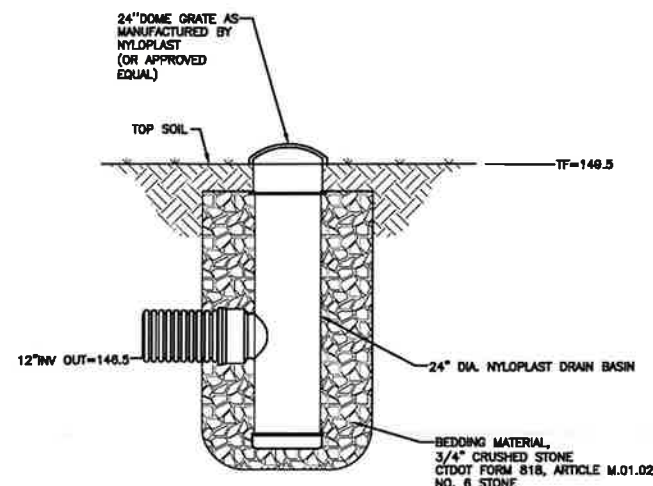
5B WOVEN WIRE SWING GATE-DOUBLE
SCALE: NOT TO SCALE



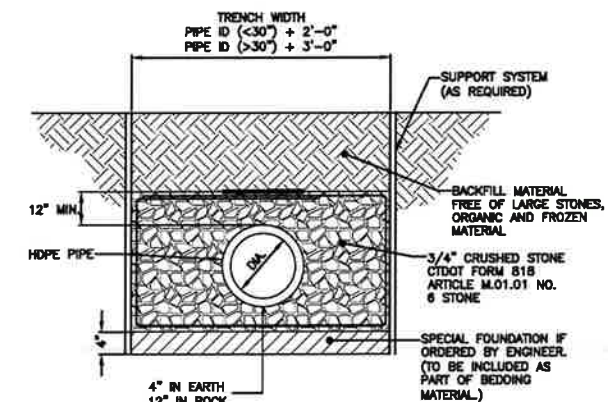
6 BOLLARD DETAIL
SCALE: NOT TO SCALE



7 UTILITY BACKBOARD FRAME CONSTRUCTION DETAIL (TYP)
SCALE: NOT TO SCALE



8 OUTLET CONTROL STRUCTURE
SCALE: NOT TO SCALE



9 HDPE TRENCH BEDDING
SCALE: NOT TO SCALE

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CENEX engineering

203 489 0887
203 488 5587 fax
652 North Hartford Road
Bristol, CT 06015
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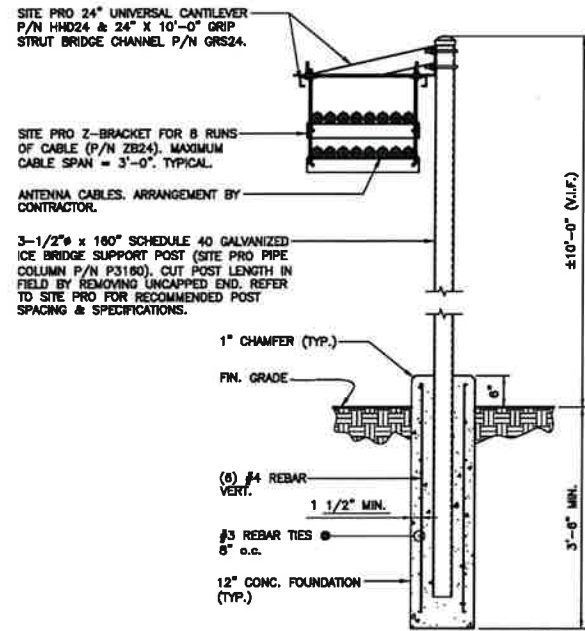
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JOB NO. 22017.11

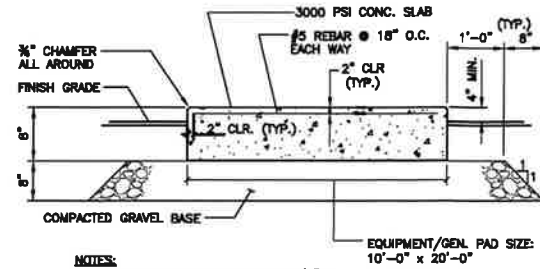
SITE DETAILS

C-6

Sheet No. 7 of 9

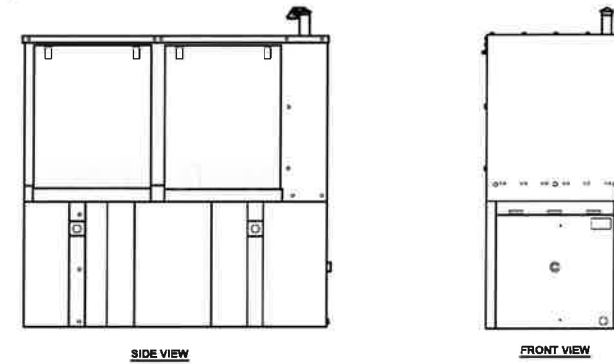


1 ANTENNA CABLE ICE BRIDGE DETAIL
SCALE: NOT TO SCALE



- NOTES:**
- TOP OF SLAB TOLERANCE IS 1/4"±.
 - PROVIDE PVC SLEEVES FOR UTILITY CONDUIT PASSAGE THROUGH PAD OR CAST CONDUITS IN PLACE AS APPLICABLE. COORDINATE SLEEVE/CONDUIT LOCATIONS WITH CONSTRUCTION MANAGER.
 - REFER TO NOTES ON SHEET N-1 FOR ADDITIONAL REQUIREMENTS.
 - COORDINATE EQUIPMENT/TANK HOLD-DOWN HARDWARE WITH RESPECTIVE MANUFACTURERS.

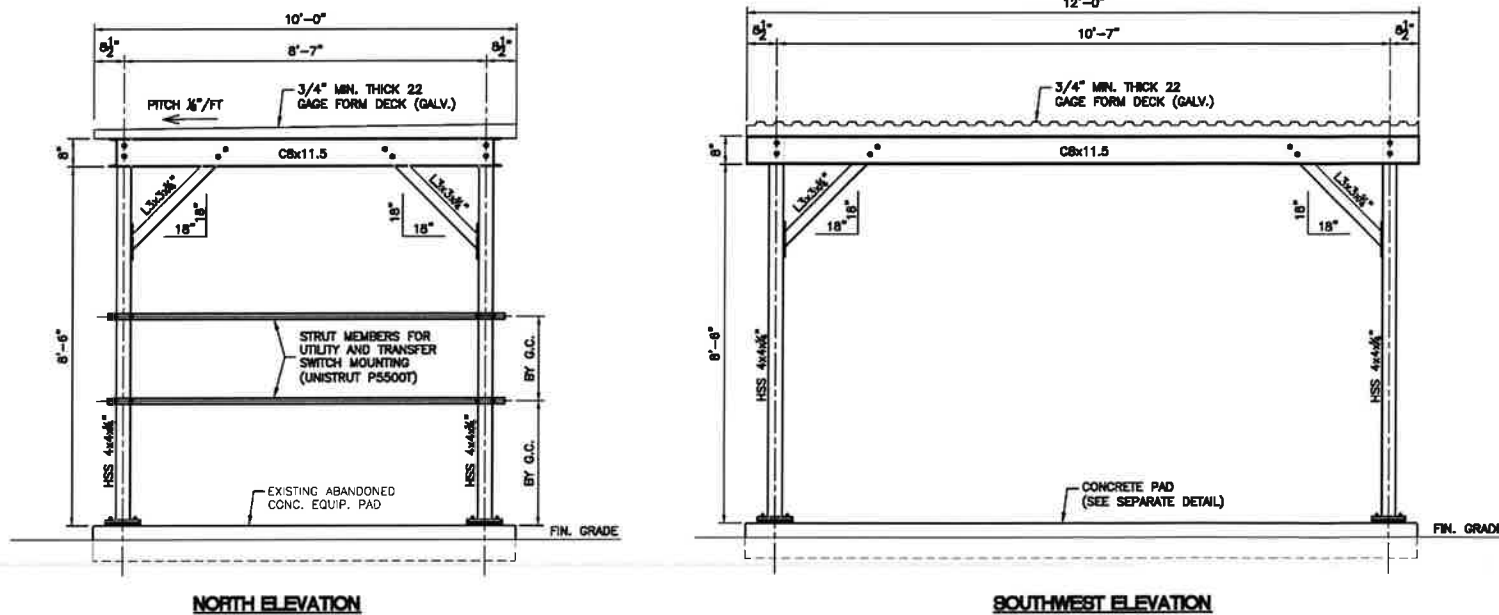
2 CONCRETE EQUIPMENT/GEN. PAD DETAIL
SCALE: NOT TO SCALE



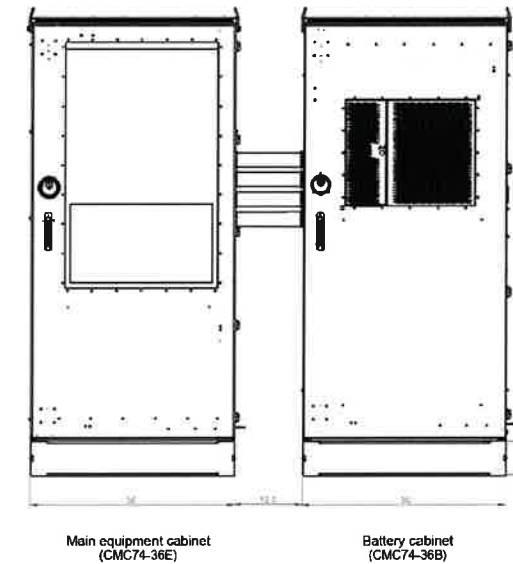
BACKUP POWER GENERATOR						
EQUIPMENT	POWER GENERATED	FUEL	MODEL NUMBER	FUEL TANK SIZE (GAL)	DIMENSIONS	WEIGHT
MAKE: KOHLER MODEL: SOREOZJE	90 KW, AC	DIESEL	GM 117250-SA8	283	91.3"L x 41.2"W x 82.3"H	3795 LBS.

NOTES:
CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION AND ALL OPTIONAL FEATURES WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.

3 BACK-UP POWER GENERATOR
SCALE: NOT TO SCALE



4 EQUIPMENT ICE BRIDGE CANOPY ELEVATIONS
SCALE: NOT TO SCALE



EQUIPMENT CABINETS		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: COMSCOPE MODEL: CMC74-36E CABINET	74.8"H x 36.2"W x 43.7"D	±385 LBS
MAKE: COMSCOPE MODEL: CMC74-36B CABINET	74.8"H x 36.2"W x 43.7"D	±770 LBS

5 CMC74-36 CABINET DETAILS
SCALE: NOT TO SCALE

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DATE: 07/20/2023

SCALE: AS NOTED

JOB NO. 22017.11

MISCELLANEOUS DETAILS

C-7

Sheet No. 5 of 9

Full CT SITING COUNCIL DRAWINGS - REVISED FOR UPDATED PERMITS
Full CT SITING COUNCIL DRAWINGS - ISSUED FOR APPROVAL
Full CT SITING COUNCIL DRAWINGS - ISSUED FOR CLIENT REVIEW

DATE: 06/13/23
DATE: 06/22/23
DATE: 07/20/23

REL. 1
A
B

DOWN BY CRCD BY DESCRIPTION

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Central of New York
[203] 468-0560
[203] 468-8557 / fax
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Branford, CT 06405
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BROADBROOK RELO CT

11 CHAMBERLAIN RD
EAST WINDSOR, CT 06016



ANTENNA FRONT

SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: MT8413-77A	28.9"H x 15.75"W x 5.51"D	57.3 LBS.
NOTES: 1. THIS ANTENNA HAS ITS OWN BUILT-IN RRH.		

1 PROPOSED ANTENNA DETAIL
C-8 SCALE: NOT TO SCALE



ELEVATION - ISOMETRIC



BOTTOM

6-PORT SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: NHH-858-R28	71.9"L x 11.8"W x 7.1"D	43.6 LBS. (W/OUT MOUNT KIT)

2 SECTOR ANTENNA DETAIL
C-8 SCALE: NOT TO SCALE



ELEVATION - ISOMETRIC



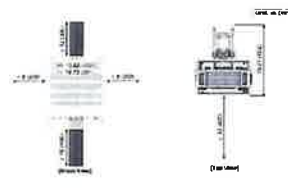
BOTTOM

10-PORT SECTOR ANTENNA		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: COMMSCOPE MODEL: NHSS-858-R28T4	71.9"L x 11.8"W x 7.1"D	±51 LBS. (W/OUT MOUNT KIT)

3 SECTOR ANTENNA DETAIL
C-8 SCALE: NOT TO SCALE



RRH - ISOMETRIC



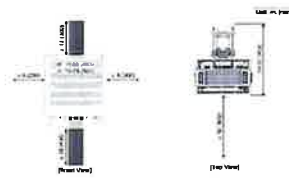
RRH CLEARANCES

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: RF4438d-25A	B2: PCS (1900 MHz) B8: AWS (2100 MHz)	15.0"H x 15.0"W x 10.0"D	74.7 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

4 DUAL-BAND AWS/PCS MACRO RADIO UNIT DETAIL
C-8 SCALE: NOT TO SCALE



RRH - ISOMETRIC



RRH CLEARANCES

DUAL BAND RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BANDS	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: RF4481d-13A	B5: 850 MHz B13: 700 MHz	15.0"H x 15.0"W x 10.23"D	79.1 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

5 DUAL-BAND 700/850 MHZ MACRO RADIO UNIT DETAIL
C-8 SCALE: NOT TO SCALE



RRH ONLY



RRH WITH ANTENNA

CBRS RRU (REMOTE RADIO UNIT)			
EQUIPMENT	BAND	DIMENSIONS	WEIGHT
MAKE: SAMSUNG MODEL: CBRS RRH-RT4423-48A	CBRS	11.8"H x 8.7"W x 3.6"D	18.6 LBS.
NOTES: 1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING.			

6 CBRS RRH DETAIL
C-8 SCALE: NOT TO SCALE



OVP BOX		
EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: RAYCAP MODEL: RVZDC-0827-PF-48	18.18"H x 15.73"W x 10.25"D	28.9 LBS.
NOTES: 1. CONTRACTOR TO CONFIRM OVP BOX MAKE/MODEL AND QUANTITY WITH VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO ORDERING. 2. UNIT PROVIDES DC SURGE PROTECTION FOR 12 RRH UNITS.		

7 PROPOSED OVER-VOLTAGE PROTECTION BOX
C-8 SCALE: NOT TO SCALE

PROFESSIONAL ENGINEER SEAL	DATE: 07/20/2023
	SCALE: AS NOTED
	JOB NO. 22017.11
	RF DETAILS
Celco Partnership d/b/a Verizon Wireless BROADBROOK RELO CT 11 CHAMBERLAN RD EAST WINDSOR, CT 06018	C-8 Sheet No. 2 of 2

REV.	DATE	PREPARED BY	CHKD BY	DESCRIPTION
1	08/13/23	ESP	TJR	FULL CT STRING COUNCIL DRAWINGS - REVISED PER UPDATED RFD'S
2	08/02/23	TJR	DAB	FULL CT STRING COUNCIL DRAWINGS - ISSUED FOR APPROVAL
3	07/20/23	A	DAB	FULL CT STRING COUNCIL DRAWINGS - ISSUED FOR CLIENT REVIEW